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# **Part I**

## **Annexes**

# Chapter 1

## F0P0

### 1.1 Comparison with the BelRAI control group

#### 1.1.1 Description of disability groups

Table 1.1: Proportion above the cut off of BelRAI scales depend on the subgroups of disability for the project F0P0

	low limit.	IADL, (cogn.)	func.	func., cogn.	func., cogn., behav.
IADL	1.89	89.04	91.77	98.77	91.67
ADL	3.79	0.46	99.59	87.65	75.00
CPS	6.06	8.68	0.41	97.53	83.33
Behav.	4.55	7.76	4.94	23.46	100.00
DRS	23.86	21.46	21.40	24.69	66.67
N	264.00	219.00	243.00	81.00	24.00

### 1.1.2 Description of socio-demographic variables

Table 1.2: Sociodemographic characteristics for the treated and the control group depend on the health profiles

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	T	C	T	C	T	C	T	C	T	C
<b>Age</b>										
Median[IQR]	80[73-85]	81[79-86]	82[78-86]	80[68-84]	83[77-87]	82[78-86]	81[76-86]	82[78-87]	82[78-87]	81[72-88]
<b>Gender</b>										
% Men	29.55	16.29	26.03	27.85	27.98	27.98	40.74	24.69	41.67	41.67
% Women	70.45	83.71	73.97	72.15	72.02	72.02	59.26	75.31	58.33	58.33
<b>ICG</b>										
% No ICG	46.59	46.97	30.59	30.59	21.81	21.81	0	0	0	0
% No cohabitant	45.83	44.7	57.08	57.08	54.73	54.73	48.15	48.15	37.5	37.5
% Cohabitant	7.58	8.33	12.33	12.33	23.46	23.46	51.85	51.85	62.5	62.5
<b>Region</b>										
Bruxelles	25.38	0	15.53	0	8.64	0	7.41	0	4.17	0
Flandre	74.62	43.56	84.47	40.18	90.95	84.77	92.59	80.25	95.83	25
Wallonie	0	56.44	0	59.82	0.41	15.23	0	19.75	0	75
<b>Median income</b>										
Low	24.62	20.83	15.07	41.55	9.47	11.93	8.64	6.17	8.33	50
Medium	72.73	57.95	80.82	40.18	87.24	51.44	86.42	49.38	91.67	33.33
High	2.65	21.21	4.11	18.26	3.29	36.63	4.94	44.44	0	16.67
<b>N</b>										
Unique value	264	52	219	89	243	125	81	57	24	13



### 1.1.3 Clinical outcome

Table 1.3: BelRai outcomes

	ADL		IADL		Falls	
	Bef	Aft	Bef	Aft	Bef	Aft
<b>low limit.</b>						
% cut off C	6.06	11.03	4.92	14.51	24.07	15.49
% cut off T	3.79	9.13	1.89	14.51	25	18.14
IC95	0.61[0.24/1.38]	1.04[0.49/1.98]	0.37[0.08/0.96]	0.88[0.48/1.48]	1.05[0.67/1.63]	1.21[0.7/2.09]
% NA	0	0.38	0	3.41	18.18	14.39
<b>IADL, (cogn.)</b>						
% cut off C	6.39	18.06	77.63	77.31	21.28	17.82
% cut off T	0.46	21.76	89.04	79.17	42.02	32.67
IC95	0.07[0/0.27]	1.36[0.85/2.34]	2.34[1.4/4.38]	0.61[0.33/1.07]	2.68[1.74/4.19]	1.56[0.83/2.72]
% NA	0	1.37	0	1.37	14.16	7.76
<b>func.</b>						
% cut off C	91.36	87.14	86.01	85.89	31.82	30.49
% cut off T	99.59	83.4	91.77	85.48	52.73	30.04
IC95	22.89[5.89/111284256.84]	0.59[0.32/0.97]	1.81[0.97/3.42]	0.42[0.18/0.9]	2.39[1.63/3.57]	0.56[0.32/0.9]
% NA	0	0.82	0	0.82	9.47	8.23
<b>func., cogn.</b>						
% cut off C	92.59	91.14	98.77	100	31.58	32.43
% cut off T	87.65	83.54	98.77	100	42.11	32.43
IC95	0.57[0.15/1.56]	0.38[0.09/1.57]	-[-/-]	-[-/-]	1.58[0.78/3.18]	0.63[0.24/1.43]
% NA	0	2.47	0	3.7	6.17	8.64
<b>func., cogn., behav.</b>						
% cut off C	70.83	70.83	100	100	31.82	31.82
% cut off T	75	70.83	91.67	91.67	54.55	36.36
IC95	1.24[0.35/6.13]	0.13[0.01/0.69]	-[-/-]	-[-/-]	2.57[0.73/10.62]	1.19[0.23/6.27]
% NA	0	0	0	0	8.33	8.33

Table 1.4: Zarit outcome

	Non Cohab		Cohab	
	Bef	Aft	Bef	Aft
<b>low limit.</b>				
% cut off C	1.79	0	7.14	10
% cut off T	35.09	36.59	41.67	33.33
IC95	29.73[7.09/413432885.05]	43507477.68[0/6098993483.02]	-[-/-]	-[-/-]
% NA	52.72	66.53	38.1	54.76
<b>IADL, (cogn.)</b>				
% cut off C	6.56	35.19	27.78	9.09
% cut off T	52.46	45.45	72.22	80
IC95	15.72[6.01/96.22]	0.41[0.03/1.58]	6.76[1.85/49.4]	-[-/-]
% NA	51.2	56.4	33.33	61.11
<b>func.</b>				
% cut off C	36.21	26.92	38.24	23.33
% cut off T	50	50	64.71	50
IC95	1.76[0.88/3.63]	1.71[0.41/9.39]	2.96[1.05/8.72]	1.49[0.25/14.18]
% NA	56.39	60.9	40.35	47.37
<b>func., cogn.</b>				
% cut off C	43.75	50	51.61	47.83
% cut off T	31.25	70	58.06	56.52
IC95	0.58[0.09/2.75]	-[-/-]	1.3[0.44/3.5]	1.21[0.03/20.48]
% NA	58.97	74.36	26.19	45.24
<b>func., cogn., behav.</b>				
% cut off C	60	60	81.82	81.82
% cut off T	80	80	63.64	81.82
IC95	-[-/-]	-[-/-]	-[-/-]	-[-/-]
% NA	44.44	44.44	26.67	26.67

Table 1.5: DRS outcomes

	Bef	Aft
<b>low limit.</b>		
% cut off C	21.59	23.48
% cut off T	23.86	20.08
IC95	1.14[0.75/1.68]	0.34[0.14/0.69]
% NA	0	0
<b>IADL, (cogn.)</b>		
% cut off C	36.53	30.41
% cut off T	21.46	22.12
IC95	0.47[0.3/0.72]	0.92[0.46/2.01]
% NA	0	0.91
<b>func.</b>		
% cut off C	20.58	22.31
% cut off T	21.4	17.77
IC95	1.05[0.69/1.67]	0.49[0.25/0.93]
% NA	0	0.41
<b>func., cogn.</b>		
% cut off C	39.51	39.24
% cut off T	24.69	27.85
IC95	0.5[0.24/1.03]	0.75[0.22/2.69]
% NA	0	2.47
<b>func., cogn., behav.</b>		
% cut off C	66.67	66.67
% cut off T	66.67	66.67
IC95	1[0.28/3.97]	0.47[0/2.06016329764347e+31]
% NA	0	0

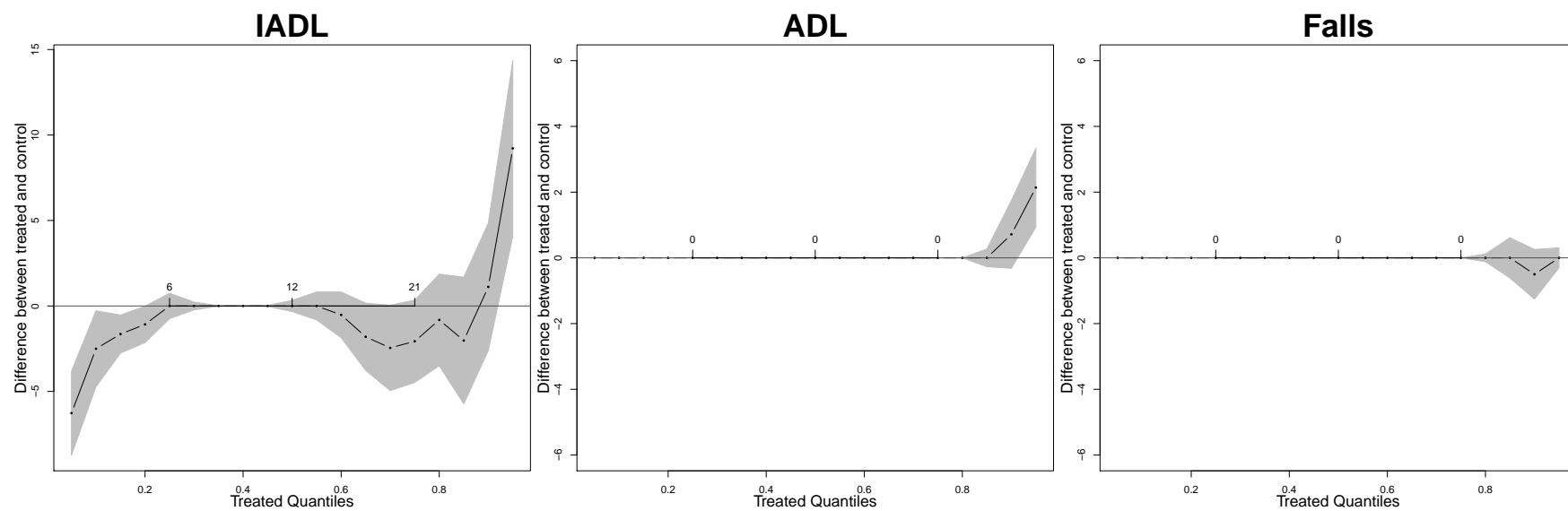


Figure 1.1: Regression quantile of functional clinical outcome (Low limitation)

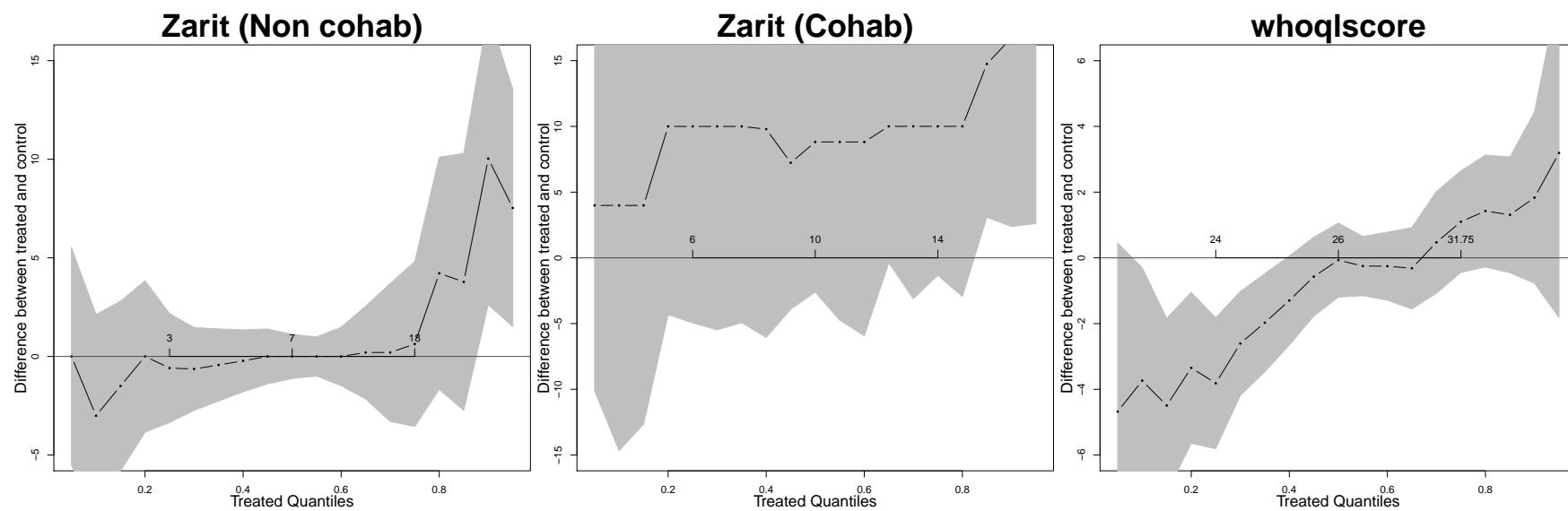


Figure 1.2: Regression quantile of burden and quality of life clinical outcome (Low limitation)

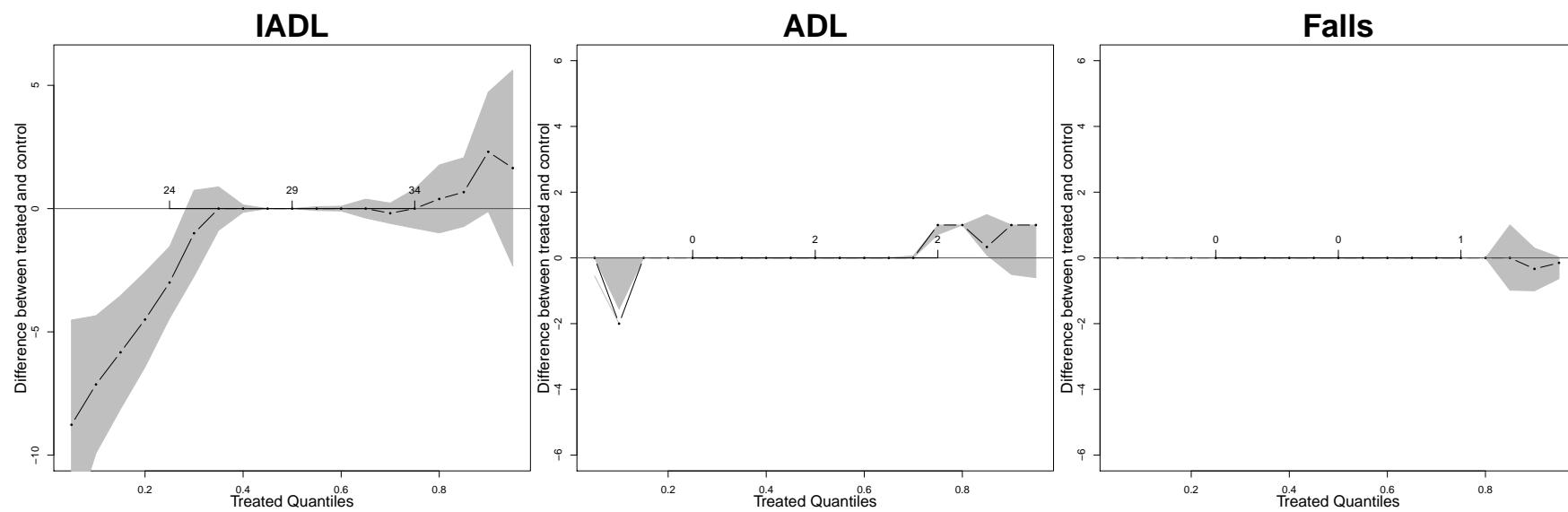


Figure 1.3: Regression quantile of functional clinical outcome (IADL (cogn.)

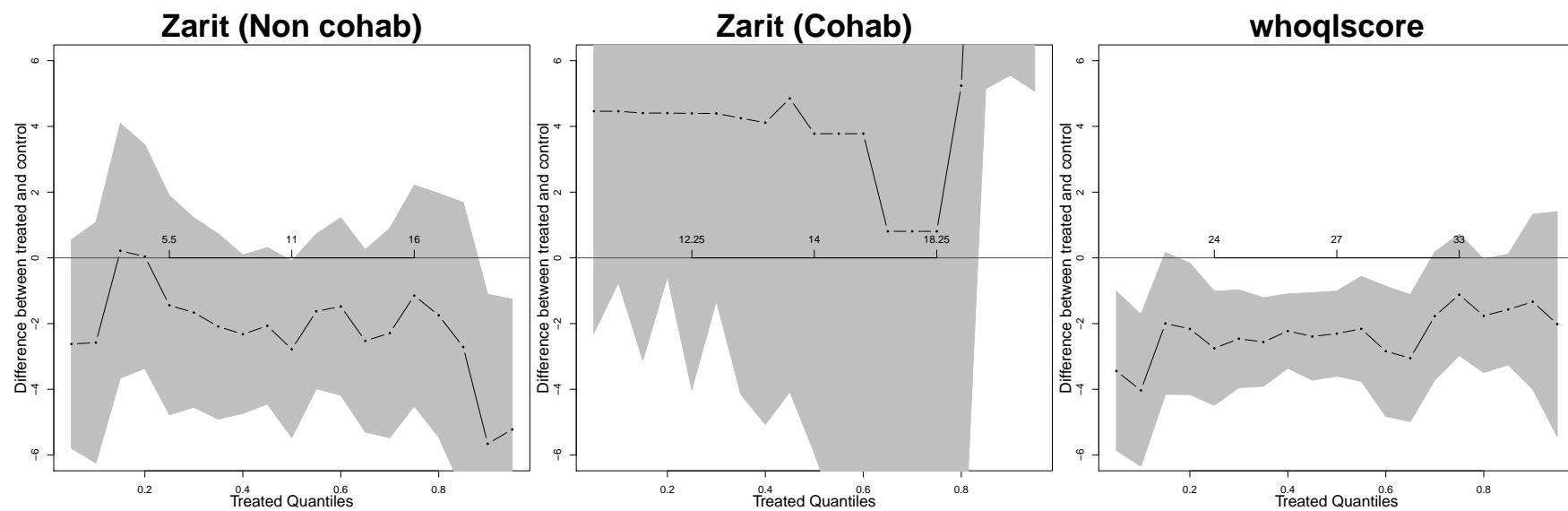


Figure 1.4: Regression quantile of burden and quality of life clinical outcome (IADL (cogn.)

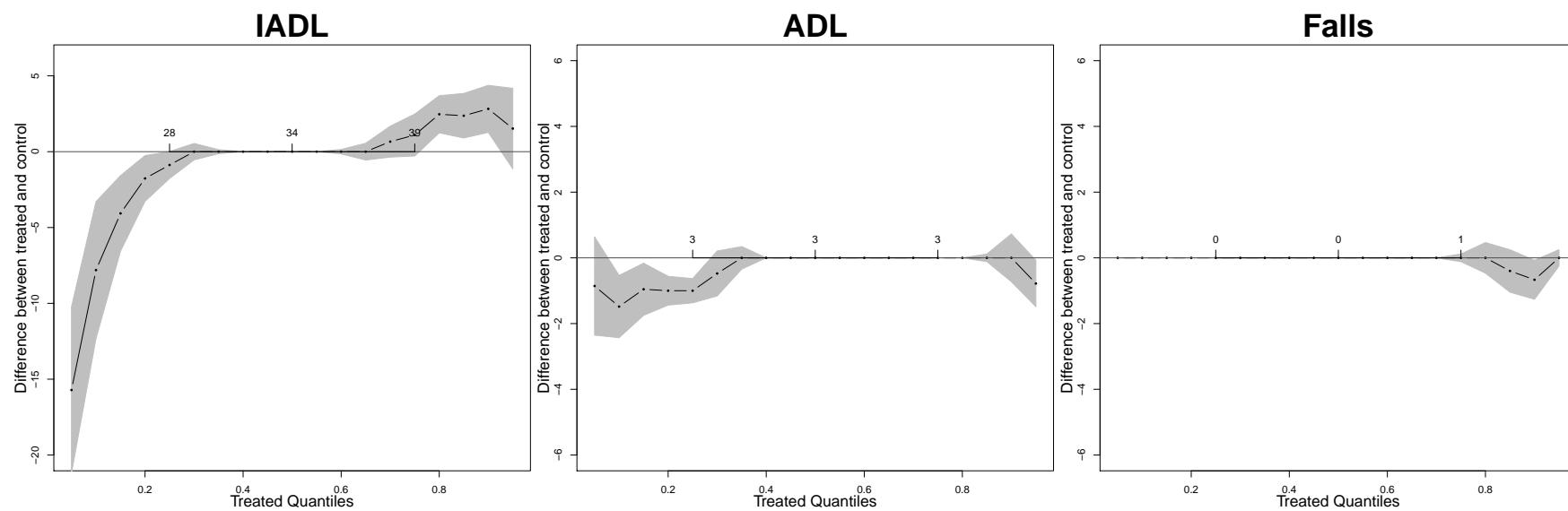


Figure 1.5: Regression quantile of functional clinical outcome (Func.)

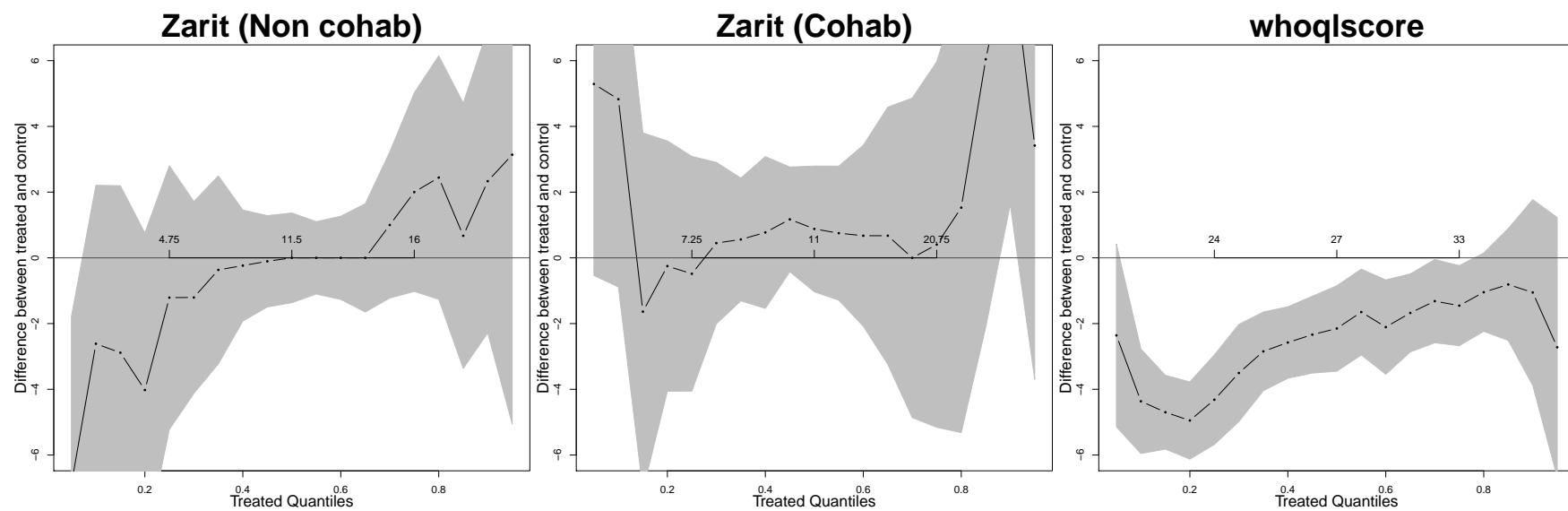


Figure 1.6: Regression quantile of burden and quality of life clinical outcome (Func.)

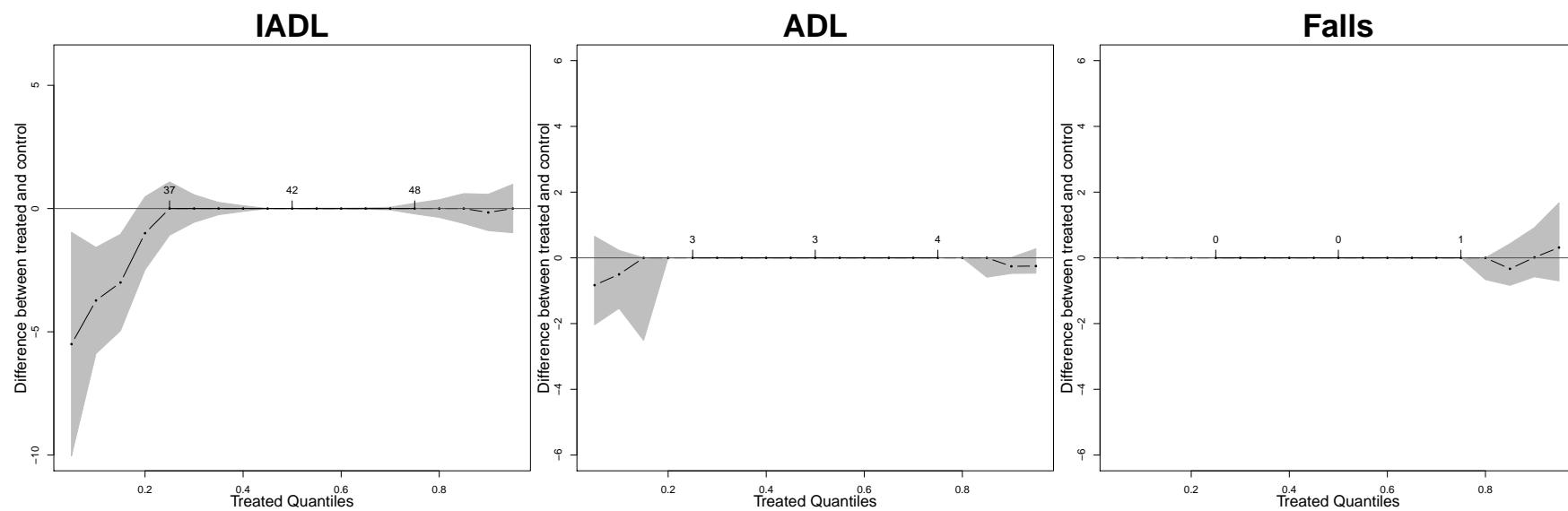


Figure 1.7: Regression quantile of functional clinical outcome (Func., cogn.)

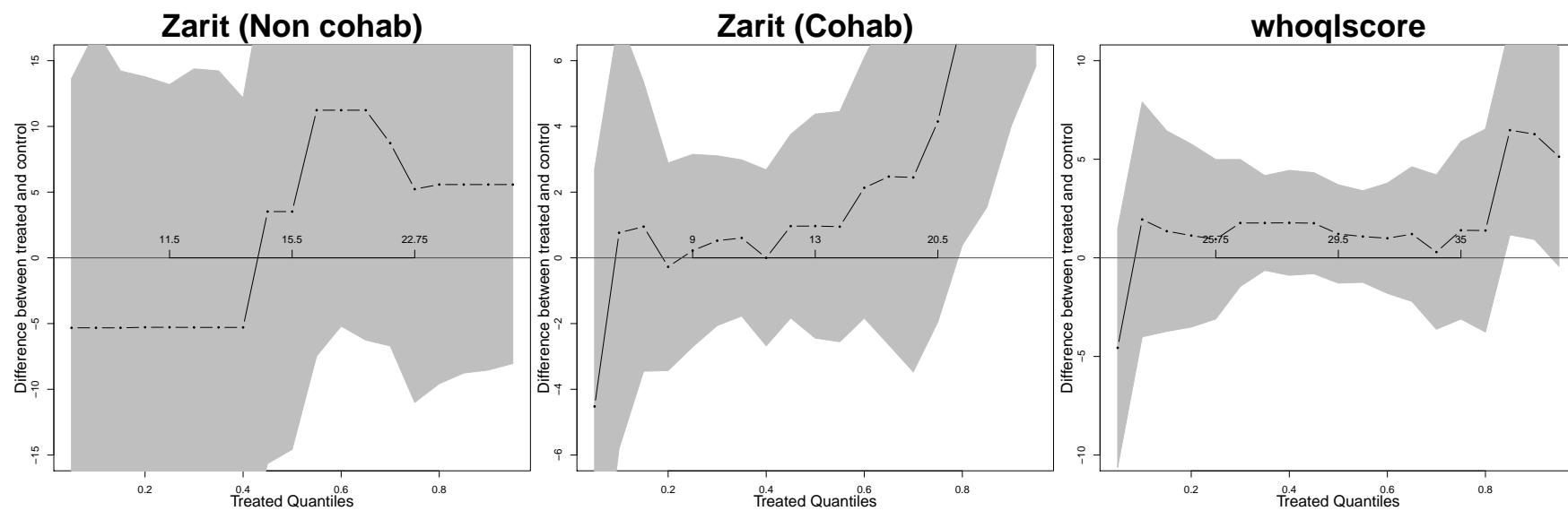


Figure 1.8: Regression quantile of burden and quality of life clinical outcome (Func., cogn.)

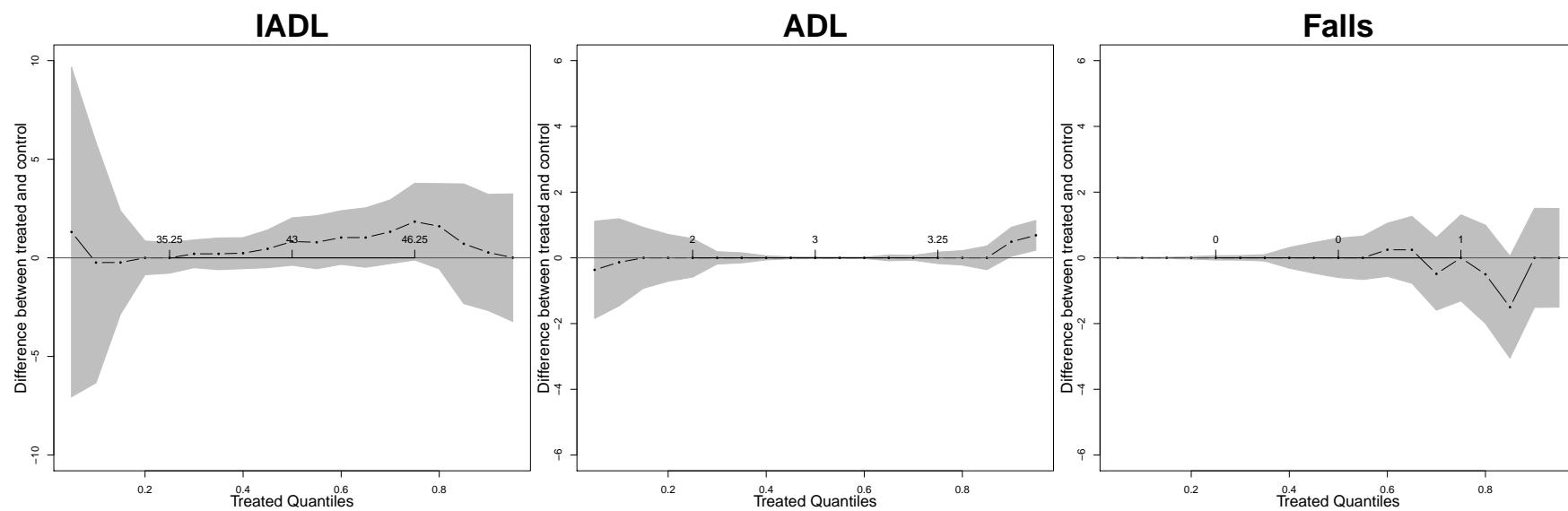


Figure 1.9: Regression quantile of functional clinical outcome (Func., cogn., behav.)

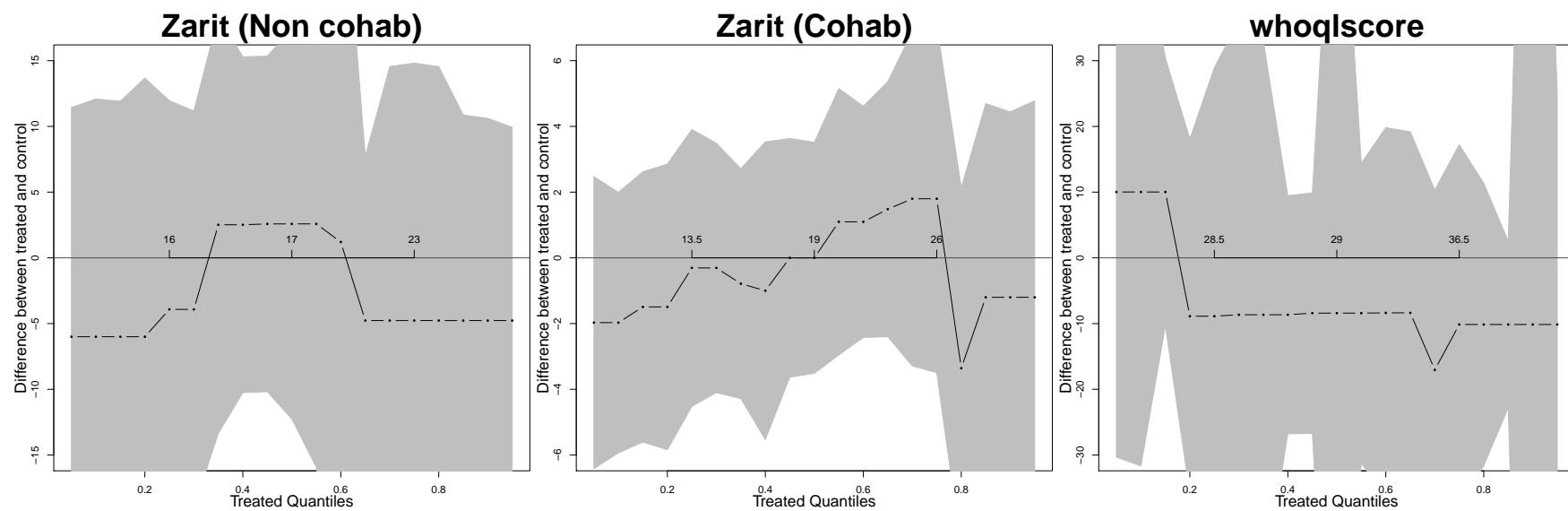


Figure 1.10: Regression quantile of burden and quality of life clinical outcome (Func., cogn., behav.)



## 1.1.4 Utilisation of services

### Appropriate use of services

Table 1.6: IC differnce of mean between treated and control for the dependency IMA outcomes

	Nursing Care N months		Short term institu. N stays		Day care center N days	
	Use	Users	Use	Users	Use	Users
<b>low limit.</b>						
<b>IADL, (cogn.)</b>						
% / Med[IQR] C	81.06	6[6-6]	0	-	0.31	85[85-85]
% / Med[IQR] T	35.09	4[2-6]	0.31	4[2-5]	0.31	49[49-49]
OR [IC95]	0.23[0.14/0.37]		-[-/-]		-[-/-]	
<b>func.</b>						
% / Med[IQR] C	92.73	6[5-6]	0	-	4.55	109[109-109]
% / Med[IQR] T	49.09	4[2-6]	2.73	1[1-2]	0.91	4[4-4]
OR [IC95]	0.12[0.04/0.27]		-[-/-]		-[-/-]	
<b>func., cogn.</b>						
% / Med[IQR] C	95.18	6[6-6]	0	-	1.13	105[86-109]
% / Med[IQR] T	65.44	4[3-6]	1.7	2[1-3]	4.25	24[10-49]
OR [IC95]	0.19[0.09/0.34]		-[-/-]		4.6[1.31/268363410.99]	
<b>func., cogn., behav.</b>						
% / Med[IQR] C	97.37	6[5-6]	0	-	0.88	101[101-101]
% / Med[IQR] T	78.95	5[3-6]	4.39	3[1-6]	11.4	22[8-52]
OR [IC95]	0.1[0/0.28]		-[-/-]		17.51[5.12/541316996.72]	

Table 1.7: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated at inclusion)

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or	7.8(4.4)	92.2(52.4)	22.9(3.9)	77.1(13.1)	33.3(0.4)	66.7(0.9)	100(1.2)	0(0)	33.3(4.5)	66.7(9.1)
Incont										
Low lim,										
ADL &	0(0)	100(0.9)	50(1)	50(1)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
Incont										
ADL lim	33.8(9.7)	66.2(18.9)	43.5(24.3)	56.5(31.6)	42.9(24.9)	57.1(33.2)	54.1(25)	45.9(21.2)	50(18.2)	50(18.2)
Incont	25(0.4)	75(1.3)	50(0.5)	50(0.5)	-(0)	-(0)	100(3.8)	0(0)	-(0)	-(0)
ADL &										
Incont	0(0)	100(2.2)	46.2(2.9)	53.8(3.4)	60.5(11.4)	39.5(7.4)	66.7(25)	33.3(12.5)	90(40.9)	10(4.5)
lim										
ADL ?										
No Incont	18.2(1.8)	81.8(7.9)	21.6(3.9)	78.4(14.1)	48(10.5)	52(11.4)	44.4(5)	55.6(6.2)	100(4.5)	0(0)
tot	16.3(16.3)	83.7(83.7)	36.4(36.4)	63.6(63.6)	47.2(47.2)	52.8(52.8)	60(60)	40(40)	68.2(68.2)	31.8(31.8)

Table 1.8: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Control at inclusion)

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or	23.2(10.1)	76.8(33.5)	42.9(7.3)	57.1(9.7)	-(0)	-(0)	33.3(1.2)	66.7(2.5)	100(9.1)	0(0)
Incont										
Low lim,										
ADL &	100(1.8)	0(0)	0(0)	100(2.4)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
Incont										
ADL lim	40(11.5)	60(17.2)	79.2(27.7)	20.8(7.3)	85.9(26.6)	14.1(4.4)	80(10)	20(2.5)	66.7(27.3)	33.3(13.6)
Incont	71.4(2.2)	28.6(0.9)	40(1)	60(1.5)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
ADL &										
Incont	97.4(16.3)	2.6(0.4)	78.3(22.8)	21.7(6.3)	96.3(45)	3.7(1.7)	88.9(60)	11.1(7.5)	36.4(18.2)	63.6(31.8)
lim										
ADL ?										
No Incont	42.9(2.6)	57.1(3.5)	86.2(12.1)	13.8(1.9)	78.4(17.5)	21.6(4.8)	100(16.2)	0(0)	-(0)	-(0)
tot	44.5(44.5)	55.5(55.5)	70.9(70.9)	29.1(29.1)	89.1(89.1)	10.9(10.9)	87.5(87.5)	12.5(12.5)	54.5(54.5)	45.5(45.5)

Table 1.9: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated second eval)

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or	24(13.7)	76(43.2)	34.3(5.8)	65.7(11.2)	33.3(0.4)	66.7(0.9)	100(1.2)	0(0)	33.3(4.5)	66.7(9.1)
Incont										
Low lim,										
ADL &	0(0)	100(0.9)	50(1)	50(1)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
Incont										
ADL lim	69.2(19.8)	30.8(8.8)	67(37.4)	33(18.4)	67.7(39.3)	32.3(18.8)	67.6(31.2)	32.4(15)	62.5(22.7)	37.5(13.6)
Incont	50(0.9)	50(0.9)	0(0)	100(1)	-(0)	-(0)	33.3(1.2)	66.7(2.5)	-(0)	-(0)
ADL &										
Incont	20(0.4)	80(1.8)	76.9(4.9)	23.1(1.5)	86(16.2)	14(2.6)	83.3(31.2)	16.7(6.2)	70(31.8)	30(13.6)
lim										
ADL ?										
No Incont	31.8(3.1)	68.2(6.6)	78.4(14.1)	21.6(3.9)	82(17.9)	18(3.9)	88.9(10)	11.1(1.2)	100(4.5)	0(0)
tot	37.9(37.9)	62.1(62.1)	63.1(63.1)	36.9(36.9)	73.8(73.8)	26.2(26.2)	75(75)	25(25)	63.6(63.6)	36.4(36.4)

Table 1.10: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Control second eval)

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or Incont	27.3(11.9)	72.7(31.7)	60(10.2)	40(6.8)	-(0)	-(0)	100(3.8)	0(0)	100(9.1)	0(0)
Low lim, ADL & Incont	100(1.8)	0(0)	100(2.4)	0(0)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
ADL lim	100(28.6)	0(0)	98.6(34.5)	1.4(0.5)	100(31)	0(0)	100(12.5)	0(0)	100(40.9)	0(0)
Incont	100(3.1)	0(0)	100(2.4)	0(0)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
ADL & Incont lim	97.4(16.3)	2.6(0.4)	98.3(28.6)	1.7(0.5)	99.1(46.3)	0.9(0.4)	98.1(66.2)	1.9(1.2)	90.9(45.5)	9.1(4.5)
ADL ? No Incont	100(6.2)	0(0)	100(14.1)	0(0)	100(22.3)	0(0)	100(16.2)	0(0)	-(0)	-(0)
tot	67.8(67.8)	32.2(32.2)	92.2(92.2)	7.8(7.8)	99.6(99.6)	0.4(0.4)	98.8(98.8)	1.2(1.2)	95.5(95.5)	4.5(4.5)

## Inappropriate use of services

Table 1.11: IC difference of mean between treated and control for the low value IMA outcomes

	Emergency N visits		GP out-of hours N visits		Hospitalisation N visits	
	Use	Users	Use	Users	Use	Users
<b>low limit.</b>						
% / Med[IQR] C	29.5	2[2-4]	1.86	2[2-8]	29.19	1[1-1]
% / Med[IQR] T	17.39	1[1-2]	12.42	2[1-2]	29.19	1[1-2]
OR [IC95]	0.43[0.28/0.62]		9.56[4.05/42]		0.77[0.54/1.08]	
<b>IADL, (cogn.)</b>						
% / Med[IQR] C	17.27	2[2-4]	8.18	2[2-2]	15.45	1[1-2]
% / Med[IQR] T	20	1[1-2]	12.73	1[1-2]	31.82	1[1-2]
OR [IC95]	1.22[0.59/2.69]		1.19[0.42/3.97]		2.33[1.17/5.02]	
<b>func.</b>						
% / Med[IQR] C	21.81	2[2-4]	16.15	2[2-4]	21.53	1[1-1]
% / Med[IQR] T	25.21	1[1-2]	22.1	2[1-2]	46.18	1[1-2]
OR [IC95]	1.05[0.73/1.55]		1.24[0.84/2]		2.89[1.99/4.3]	
<b>func., cogn.</b>						
% / Med[IQR] C	21.05	2[2-2]	11.4	2[2-2]	25.44	1[1-2]
% / Med[IQR] T	31.58	1[1-2]	16.67	2[2-4]	45.61	1[1-2]
OR [IC95]	1.56[0.79/3.52]		1.17[0.5/2.83]		2.67[1.39/5.44]	
<b>func., cogn., behav.</b>						
% / Med[IQR] C	30.95	2[2-2]	9.52	2[2-2]	23.81	1[1-1]
% / Med[IQR] T	38.1	1[1-2]	4.76	2[1-2]	40.48	1[1-2]
OR [IC95]	1.13[0.34/4.69]		-[-/-]		1.81[0.62/8.4]	

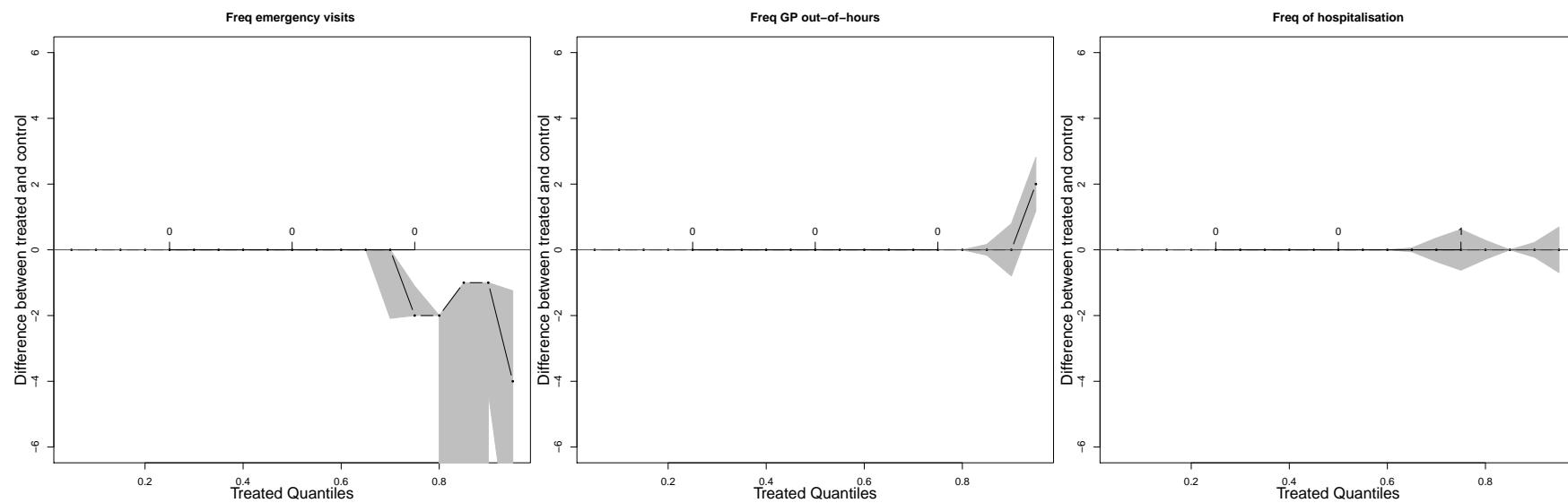


Figure 1.11: Regression quantile of inappropriate use of services (Low limitation)

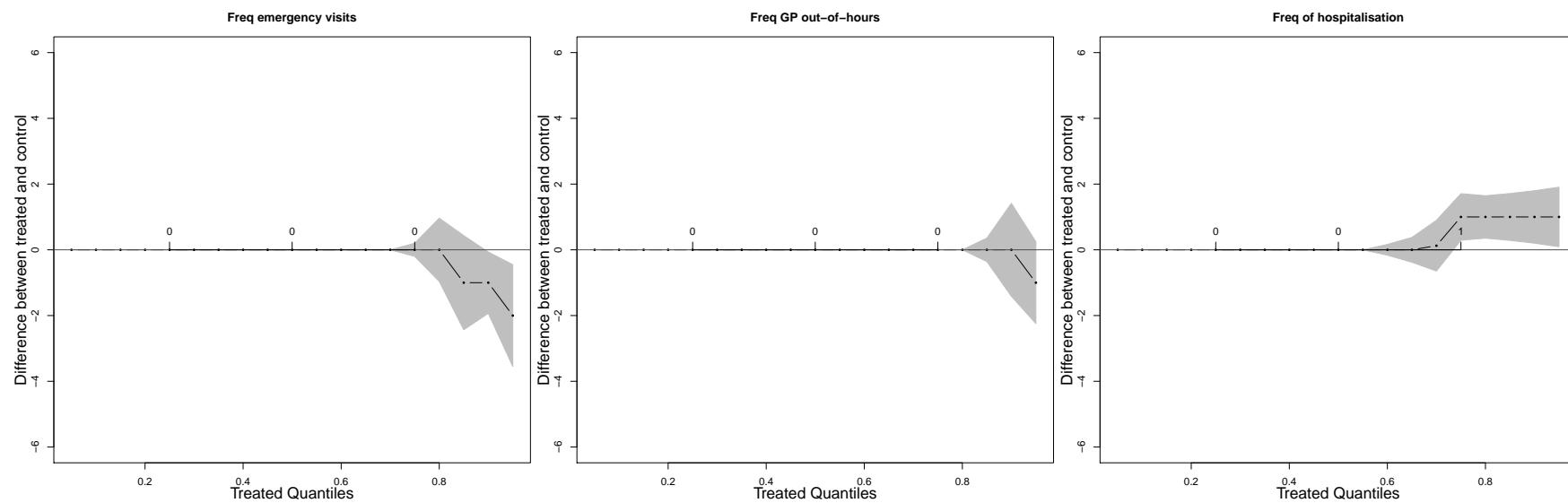


Figure 1.12: Regression quantile of inappropriate use of services (IADL (cogn.))

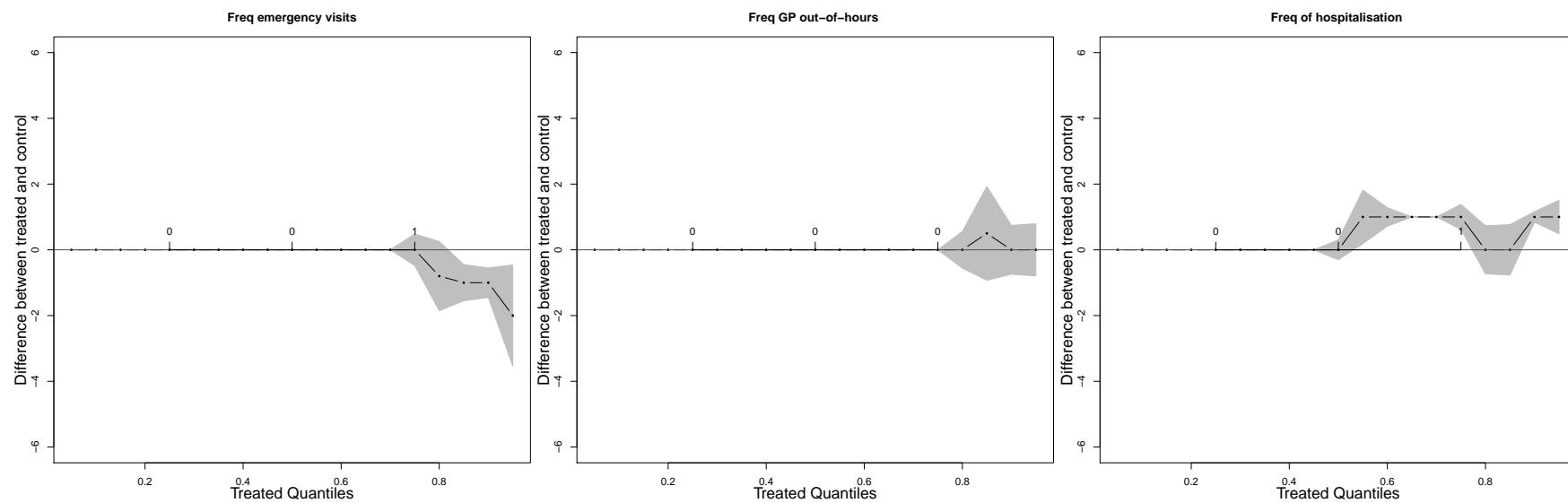


Figure 1.13: Regression quantile of inappropriate use of services (Func.)

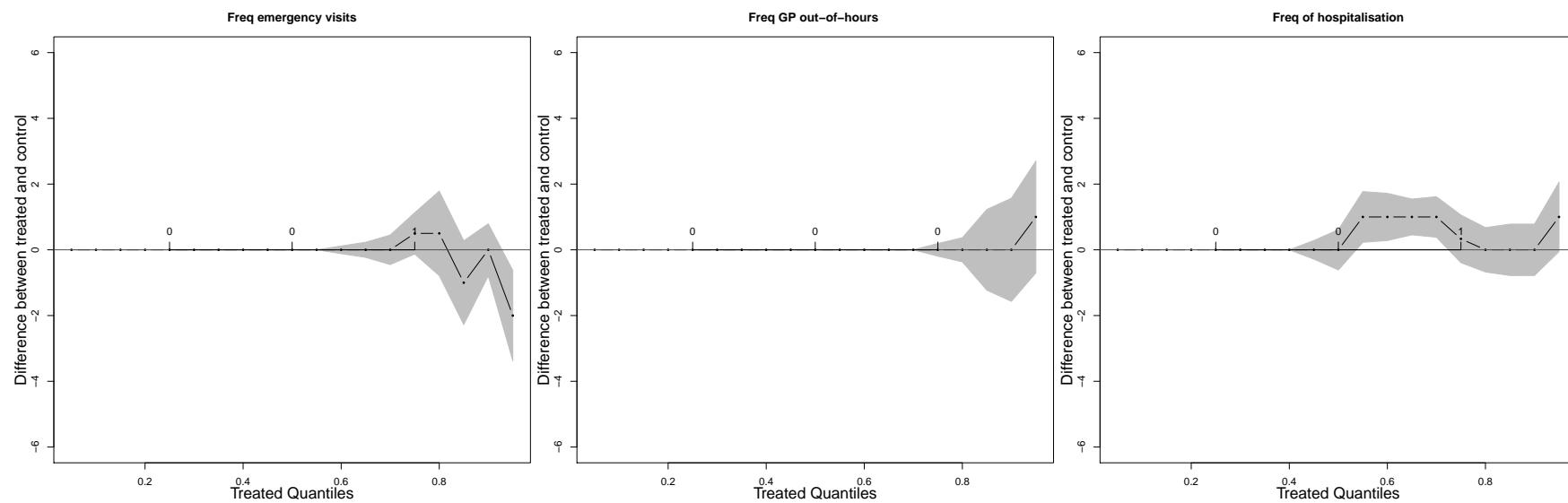


Figure 1.14: Regression quantile of inappropriate use of services (Func., cogn.)

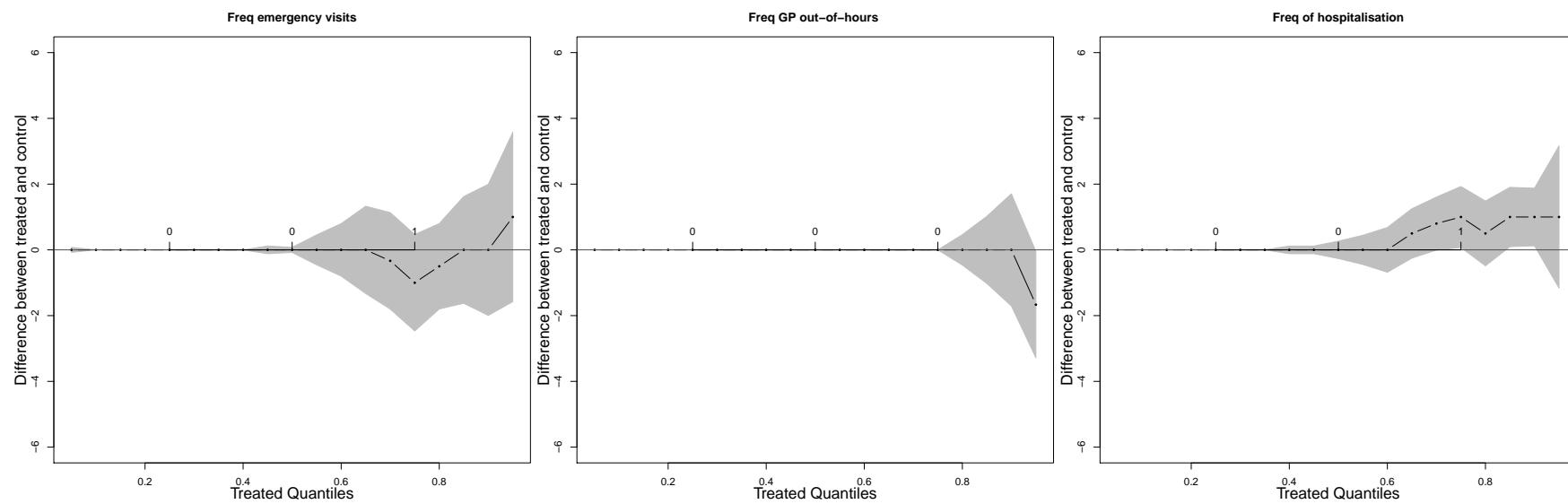


Figure 1.15: Regression quantile of inappropriate use of services (Func., cogn., behav.)

## Definitive institutionalisation and death

Table 1.12: IC of ratio of incidence rate between treated and control for the death and the definitive institutionalisation

	Definitive institu.	Death
<b>low</b>		
<b>limit.</b>		
IR T	0.0042	0.0021
IR C	0.0042	5e-04
IC95	0.37/2.66	0.45/35.94
<b>IADL,</b>		
<b>(cogn.)</b>		
IR T	0.0231	0.0062
IR C	0.0083	0.0175
IC95	1/7.74	0.11/1.11
<b>func.</b>		
IR T	0.0185	0.0124
IR C	0.0049	0.0073
IC95	1.85/7.56	0.9/3.23
<b>func.,</b>		
<b>cogn.</b>		
IR T	0.0346	0.0076
IR C	0.0111	0.0108
IC95	1.32/7.3	0.22/2.22
<b>func.,</b>		
<b>cogn.,</b>		
<b>behav.</b>		
IR T	0.0415	0.0082
IR C	0.0122	0.004
IC95	0.92/12.51	0.18/22.33



### 1.1.5 Health care costs linked to disability for the NIHDI

Table 1.13: Average costs of health care services and technical equipment for six months (per month, per patient)

	Interv.		Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>												
Mean T	0	98.5	56.9	114.4	21.9	39.4	2.7	3.8	3.2	4.7	3.2	7
Mean C	0	0	276	538.1	30.9	64.5	0.7	1.8	13.3	6.6	3.5	0.1
IC95	0/0	94/103	-259/-179	-508/-345	-19/-1	-39/-11	0/6	-1/6	-15/-5	-7/3	-4/4	2/13
<b>IADL</b>												
(cogn.)												
Mean T	0	91.7	99.2	178	21.9	37.8	1.8	5.2	4.4	2.8	0.5	2
Mean C	0	0	483.6	1180.9	95.3	223.1	4.2	30.8	46.8	8.5	0	0.1
IC95	0/0	83/100	-488/-282	-1196/-801	-96/-48	-239/-135	-6/2	-46/-8	-57/-27	-13/1	0/1	0/6
<b>Func.</b>												
Mean T	0	77.3	222.5	378.2	48	82	5.7	22.5	13.5	15.1	1.2	1.6
Mean C	0	0	764.8	1167.8	98.4	135	4.7	85	57.6	19.6	5	8.1
IC95	0/0	74/81	-616/-468	-890/-699	-70/-30	-78/-30	-4/5	-134/-9	-53/-33	-14/5	-9/1	-13/-1
<b>Func.</b>												
cogn.												
Mean T	0	88.2	324.5	701.4	34.7	94.3	10.5	20.5	17.5	32.8	0	3.9
Mean C	0	0	971.6	1789.5	90	147.8	4.3	19.6	86.3	21.8	0	0
IC95	0/0	81/95	-808/-497	-1297/-891	-84/-29	-102/-4	-5/23	-19/20	-87/-51	-6/28	0/0	0/10
<b>Func. cogn.</b>												
behav												
Mean T	0	92.5	221.9	285.6	28.3	20.8	4.8	0.7	8.4	6.9	0	0
Mean C	0	0	755.4	1602.4	89	211	2.7	19.3	49.1	43.3	0	2.6
IC95	0/0	80/106	-908/-205	-1704/-954	-112/-10	-261/-123	-5/13	-52/-1	-64/-17	-57/-17	0/0	-5/0

Table 1.14: Average costs of other health care services for six months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Bef	Aft	Bef	Aft	
<b>Low limit.</b>												
Mean T	0	1.2	2	13	21.2	22.1	32.4	1.2	2.1	899.3	902.9	
Mean C	0	2.1	10.9	2.9	24.1	55.6	78	1.9	2.3	337.9	604.9	
IC95	0/0	-6.3/3	-18.2/-1	1.3/22	-26.4/23	-42.8/-25	-56.9/-36	-1.8/0	-1.5/1	352.2/781	-6.9/570	
<b>IADL (cogn.)</b>												
Mean T	1.3	0	21.6	38.3	78.3	19.4	31.4	3.2	3.4	1143.5	1146.7	
Mean C	0	38	5.5	9.9	49.2	53.4	93	2.7	1.2	431.5	521.3	
IC95	0/3	-75.9/-8	-4.9/51	-0.2/62	-31.8/91	-43.1/-25	-76.7/-47	-2.2/3	0.7/4	365.8/1102	246.4/1042	
<b>Func.</b>												
Mean T	11.5	10.4	12.7	70.3	98.2	34.4	57	1.7	2.8	1444	1975	
Mean C	2.9	8	3.2	18.8	30.1	64.4	93	1.9	2.8	505.8	681.4	
IC95	-0.1/18	-10.3/13	2.6/17	23.6/78	28.2/110	-39.2/-22	-47.1/-25	-1.3/1	-1.7/1	705.9/1202	910.9/1672	
<b>Func. cogn.</b>												
Mean T	25.3	48.5	14.9	79.4	112.7	26.8	61.7	1.8	1.3	1346.2	1505.5	
Mean C	4.6	7	7.5	15.1	31.7	51.8	102.9	4.1	5.3	433.3	893.7	
IC95	-5/59	4.2/94	-7.2/25	25.6/105	17.8/148	-39.2/-9	-66.2/-12	-4.7/0	-6.5/-2	487.4/1447	130.6/1128	
<b>Func. cogn. behav</b>												
Mean T	23.2	54	14.2	78.4	199.5	22.6	25.3	3.9	5.9	1175.2	1358	
Mean C	18.6	34.9	0	22.3	4.3	18	87.1	1.6	3.7	523.9	825.8	
IC95	-45.5/43	-82.1/91	2/30	-2.2/128	55.8/351	-6.7/15	-92.5/-32	-0.5/5	-3.3/7	-63.7/1401	-915/1592	

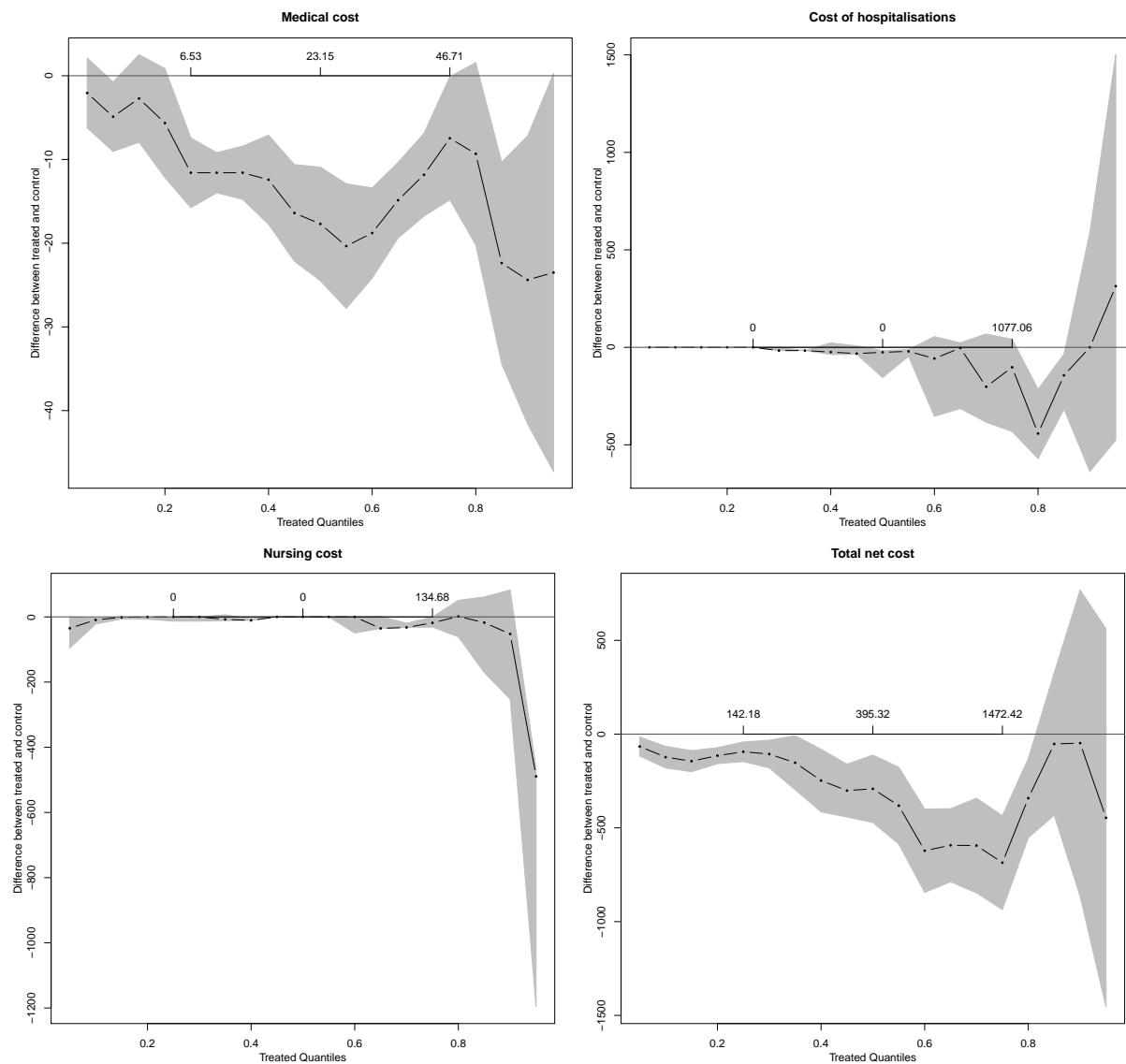


Figure 1.16: Graphs of the differences of costs between treated and control, **for the NIHDI, for the group of low limitations**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

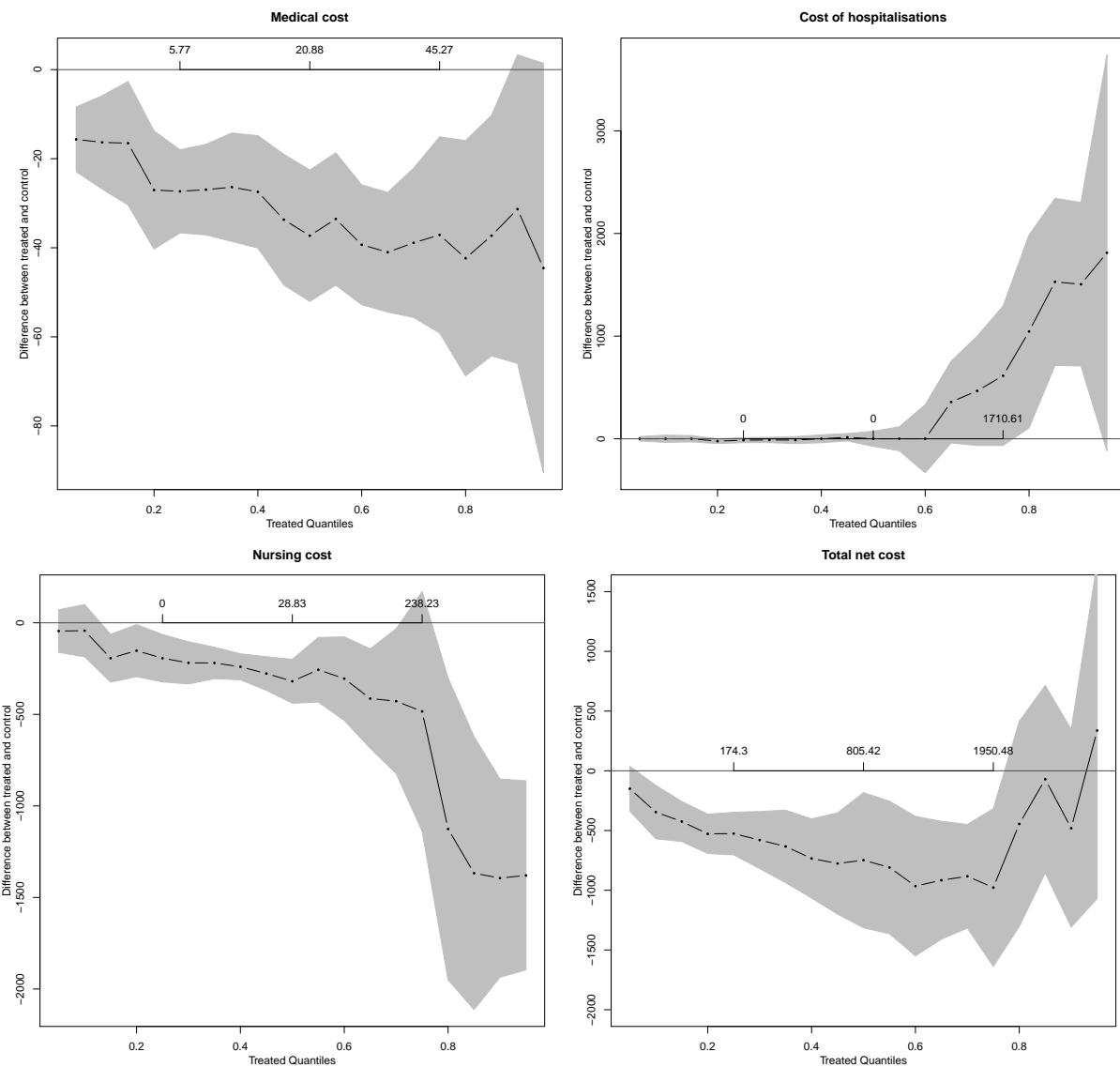


Figure 1.17: Graphs of the differences of costs between treated and control, **for the NIHDI, for the group of IADL limitations (cognitive impairment)**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

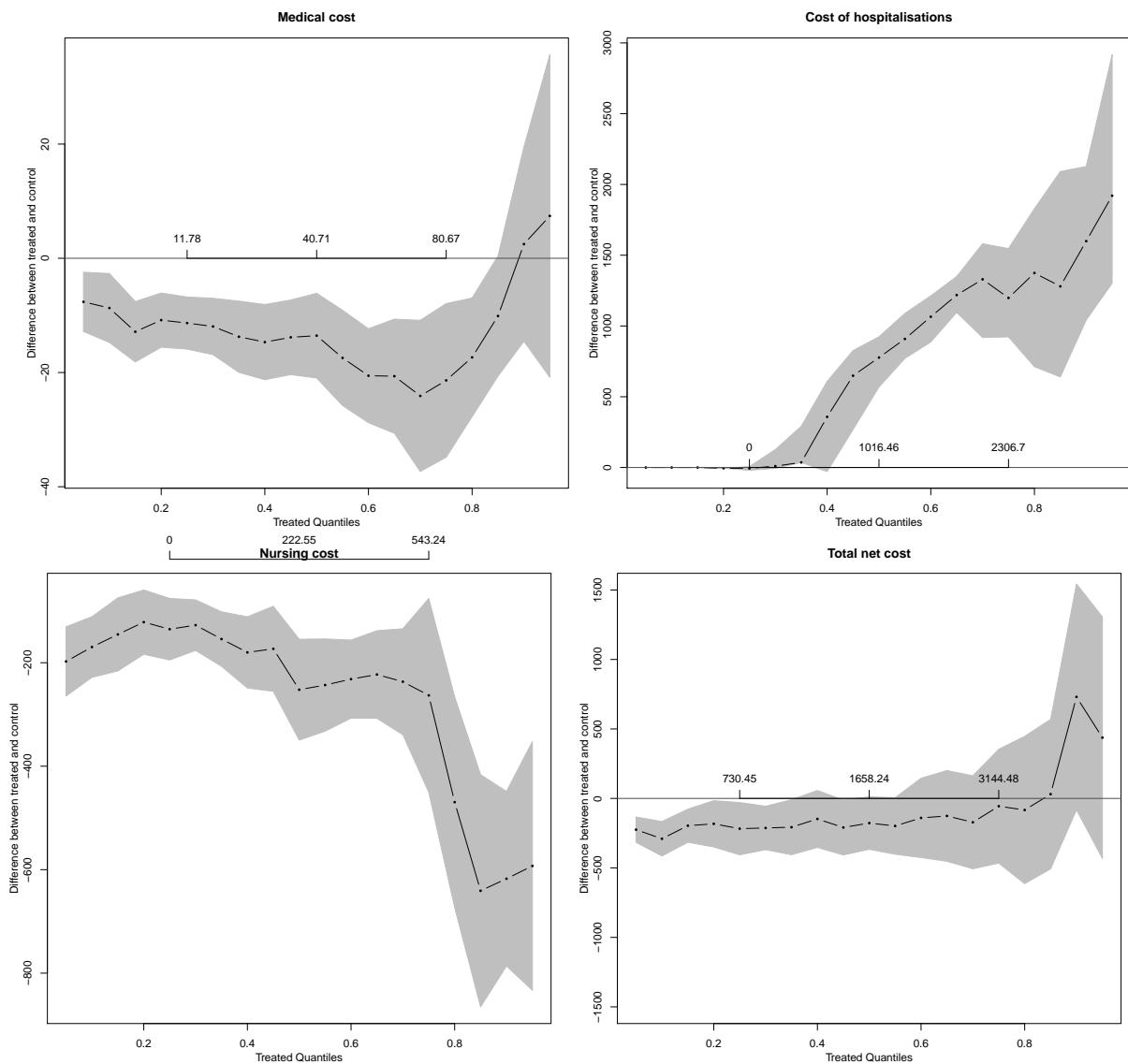


Figure 1.18: Graphs of the differences of costs between treated and control, **for the NIHDI, for the group of functional limitations**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

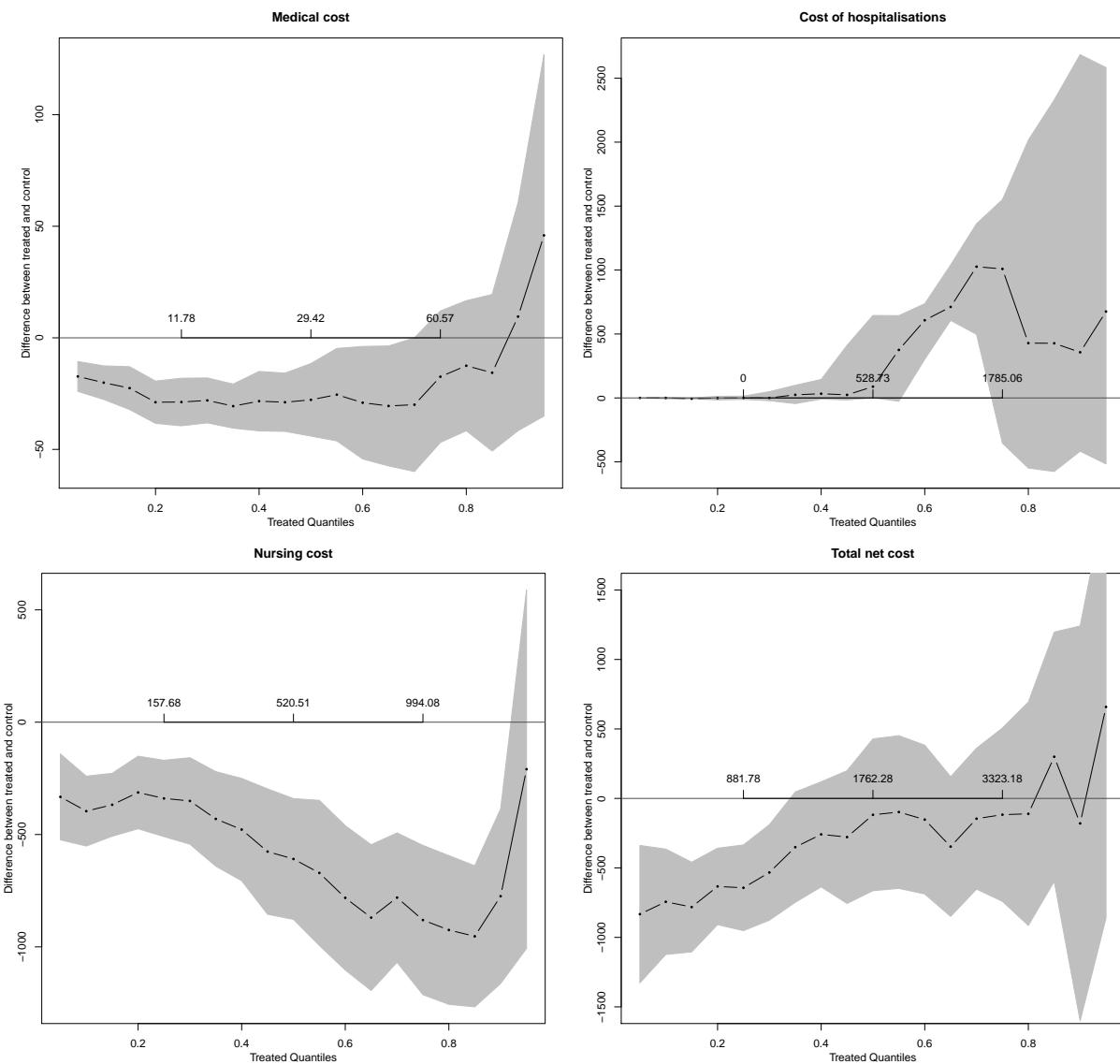


Figure 1.19: Graphs of the differences of costs between treated and control, **for the NHDI, for the group of functional limitations and cognitive impairment**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

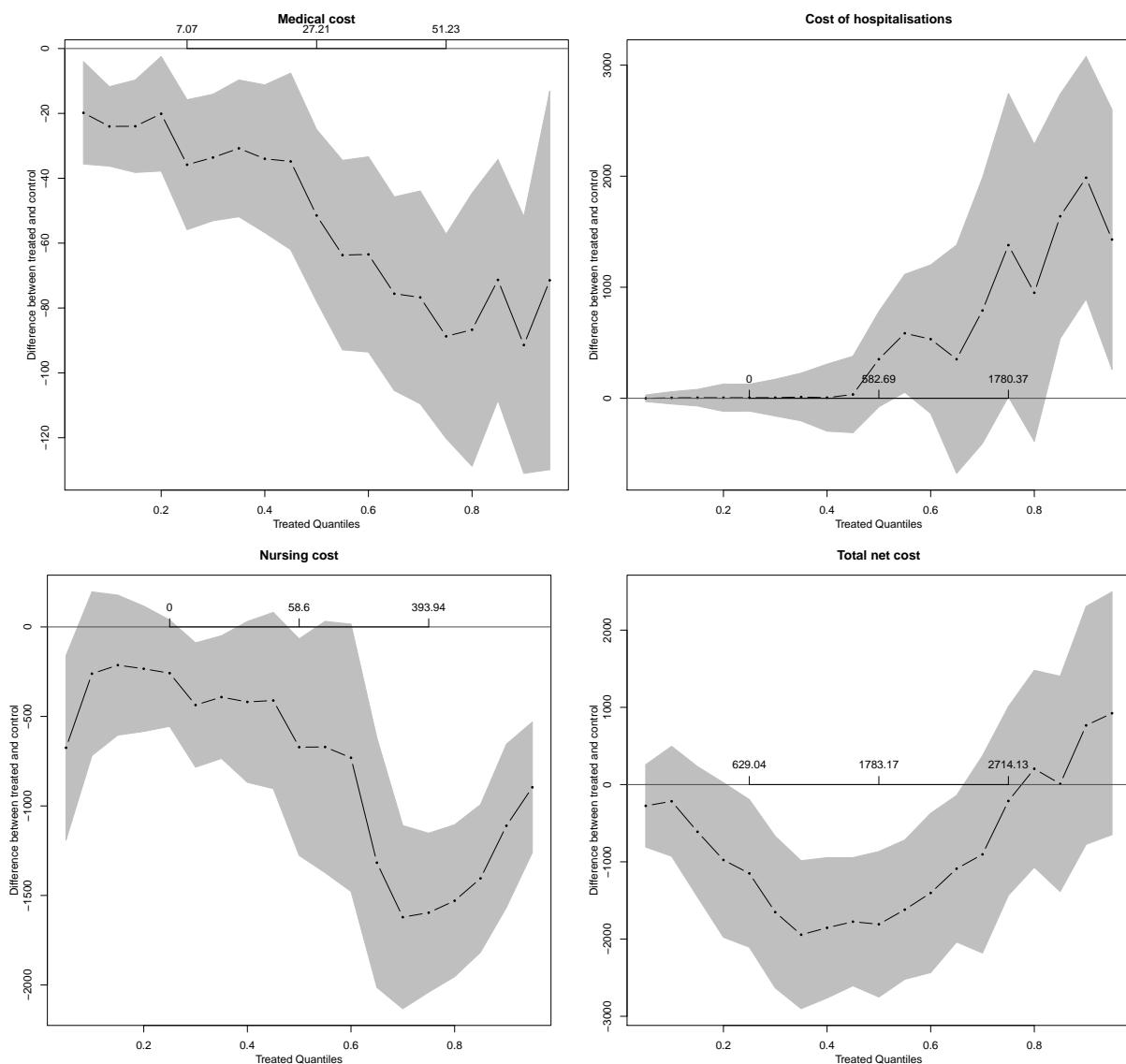


Figure 1.20: Graphs of the differences of costs between treated and control, **for the NHDI, for the group of functional limitations, cognitive impairment and behavioural problems**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)



### 1.1.6 Health care costs linked to disability for the patients

Table 1.15: Average costs of health care services and technical equipment for six months (per month, per patient)

	Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>										
Mean T	0.1	0	4	7.3	0	0.1	2.8	2.8	2.7	8.3
Mean C	4.2	5.9	7.7	12.3	0	0	21.9	21.9	6	0
IC95	-6.3/-2.3	-8.9/-3.2	-6/-1.5	-7.9/-2.2	0/0	-0.1/0.2	-23.7/-14.7	-24.1/-14.7	-9.5/2.6	1.2/15.7
<b>IADL (cogn.)</b>										
Mean T	0	0	4.8	9.5	0	0	9.3	9.3	0.2	0
Mean C	6.3	14.1	14.3	29.3	0	0.1	50	50.2	0	0
IC95	-11.3/-1.8	-24.3/-5.6	-14.5/-4.3	-27.6/-12.2	0/0	-0.3/0	-51.8/-29.6	-52.3/-29.6	0/0.5	0/0
<b>Func.</b>										
Mean T	0.1	0.1	9.3	14.4	0	0.4	15.1	15.1	1.6	1.9
Mean C	6.5	9.7	14.7	23.9	0.3	0	44.6	44.6	0.1	5.8
IC95	-9.7/-3.6	-14.8/-5.5	-8.5/-2.3	-15/-4.5	-1/0	0/1.3	-36.1/-23.3	-36.4/-22.8	-0.2/3.9	-10.8/1.7
<b>Func. cogn.</b>										
Mean T	0	1.3	4.6	11.2	1.9	0	39	38.9	0	0.3
Mean C	3.6	9.2	15.3	37.4	0	0	67.3	67.5	0	0
IC95	-8.2/-0.1	-16.4/-1	-16.4/-5.9	-43/-11.4	0/5.7	0/0.1	-39.7/-15.8	-40.3/-17.7	0/0	0/0.7
<b>Func. cogn. behav</b>										
Mean T	0	0	5.9	4.4	0	0.1	43.9	44	0	0
Mean C	4.3	42.2	4.7	29.4	0.1	0	58.5	58.5	0	0
IC95	-11/-0.7	-64.4/-20.3	-4.3/7.2	-37.1/-12.8	-0.3/0	0/0.2	-34.1/7.3	-34.1/4.9	0/0	0/0

Table 1.16: Average costs of other health care services for six months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef
<b>Low limit.</b>												
Mean T	0	0.4	1.5	11.8	17.6	3.1	4.1	0.2	0.4	54.2	51.9	
Mean C	0	0.7	8.5	4.6	25.6	7.5	9.6	0.3	0.6	23	24.1	
IC95	0/0	-2/1.1	-13.5/-0.8	-2.7/17.5	-32.3/14.6	-5.9/-3.2	-7/-4	-0.2/0.1	-0.5/0	17.9/45.6	10.4/47.1	
<b>IADL</b>												
(cogn.)												
Mean T	0.4	0	13.3	28.8	76.1	3.3	4.9	0.4	0.7	70.5	77.3	
Mean C	0	12.1	5.6	10	45.4	6.7	11.3	0.6	0.5	16.6	26.3	
IC95	0/1	-23/-2.5	-5.5/27.6	-2.5/44.5	-28.7/94.3	-5.5/-1.5	-10/-3.1	-0.7/0.2	-0.3/0.7	31.3/80.5	20.9/84.6	
<b>Func.</b>												
Mean T	3.6	3.3	11.1	56.6	77.2	4.3	6.2	0.3	0.4	78.6	109.5	
Mean C	0.9	2.5	3	19.5	25.6	8.2	11.7	0.2	0.4	27.2	50.6	
IC95	0.1/5.6	-3.1/4.1	2.1/14.8	16/60.3	18.6/83	-5.5/-2.3	-7.7/-3.6	-0.1/0.2	-0.3/0.3	36.3/66.4	25.1/95.9	
<b>Func.</b>												
cogn.												
Mean T	7.9	15	16.8	65.8	87	2.5	5.9	0.3	0.3	58.6	61.5	
Mean C	1.5	2.2	6.4	22.4	30	7.4	13.4	0.6	0.9	15.4	51.3	
IC95	-1.4/17.4	0.8/27.8	-5.6/32.8	5.7/81.9	5.4/108.3	-7.5/-2.5	-11.9/-3	-0.7/0.1	-1.2/-0.1	19.5/68.9	-20.6/42.4	
<b>Func. cogn.</b>												
behav												
Mean T	8.3	18	10.5	57.4	130	3.2	3.9	0.8	1.3	54.3	64.3	
Mean C	5.8	10.8	0	21.2	4.6	1.9	8.8	0.2	0.3	37.9	41.1	
IC95	-15.5/16.7	-23.3/31.2	1.2/22.1	-8.2/88.4	43.1/221.9	-0.2/2.7	-8.6/-1.2	0.1/1.2	0.2/2	-33.6/79.3	-41.5/86.3	

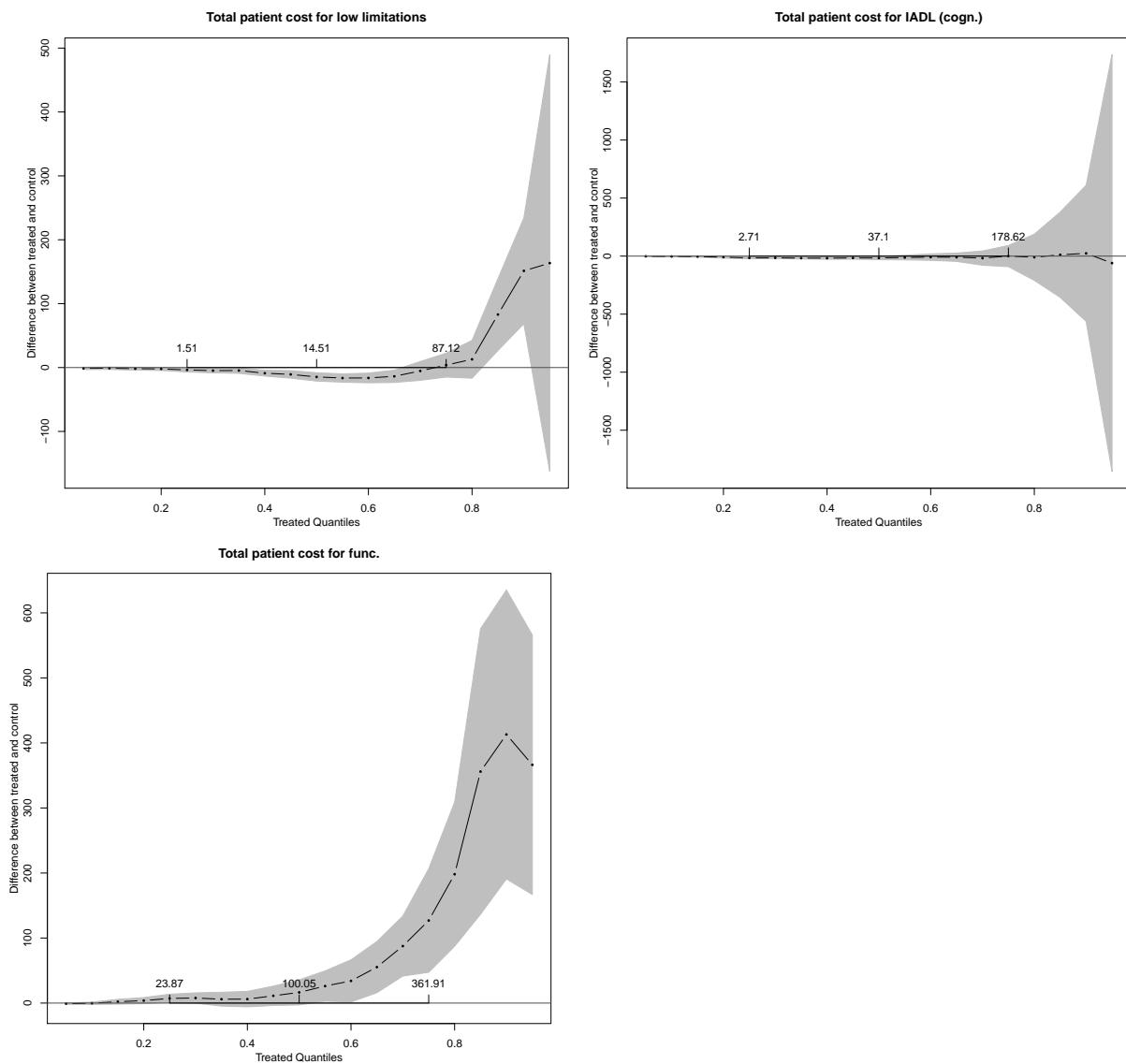


Figure 1.21: Graphs of the differences of the total cost for patients between treated and control, for six months, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

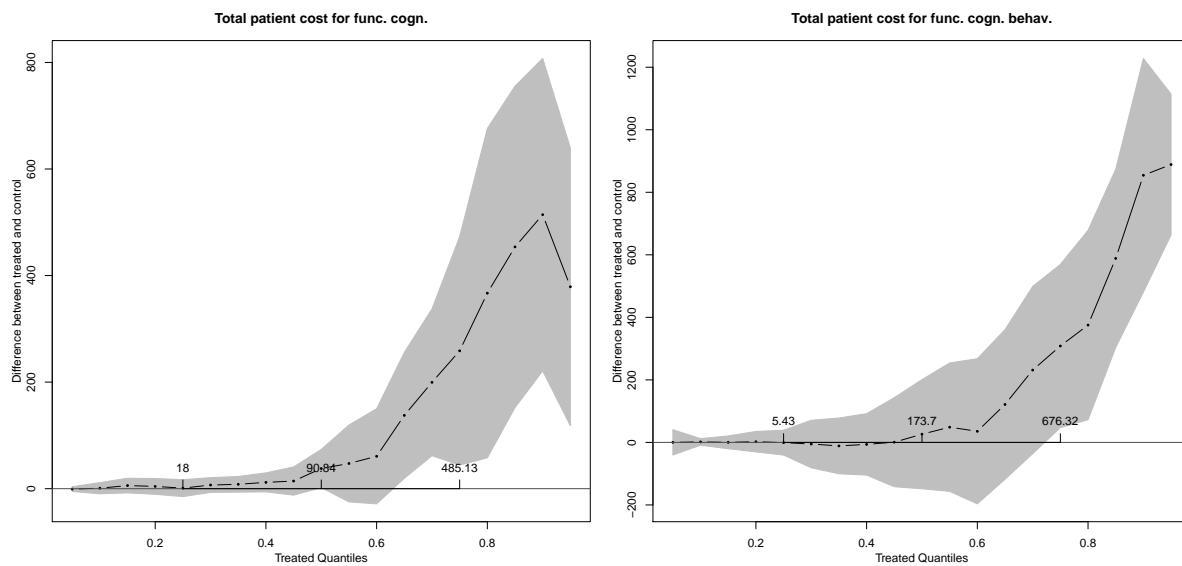


Figure 1.22: Graphs of the differences of the total cost for patients between treated and control, for six months, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

### 1.1.7 Cost differences for the stakeholders between treated and control

Table 1.17: Average cost differences between treated and control group per month (adjusted according to the level of cost before intervention, socio economic proxy and deaths)

	NIHDI Home		NIHDI Home + hosp. + inter		All NIHDI + patients + regions	
	Diff mean adj.	IC95	Diff mean adj.	IC95	Diff mean adj.	IC95
Low limit.	-125	-155.8/-82.9	-134	-302.3/62.5	-98	-296.5/132.5
IADL (cogn)	-401	-493.5/-299.5	-494	-740.9/-162.4	-595	-927.1/-152.1
Func.	-360	-436/-274.3	11	-265.8/331.9	284	-79.6/678.2
Func. cogn. or Func. cogn. behav.	-548	-650.8/-421.3	-421	-721.2/-83.5	-76	-502/441.1

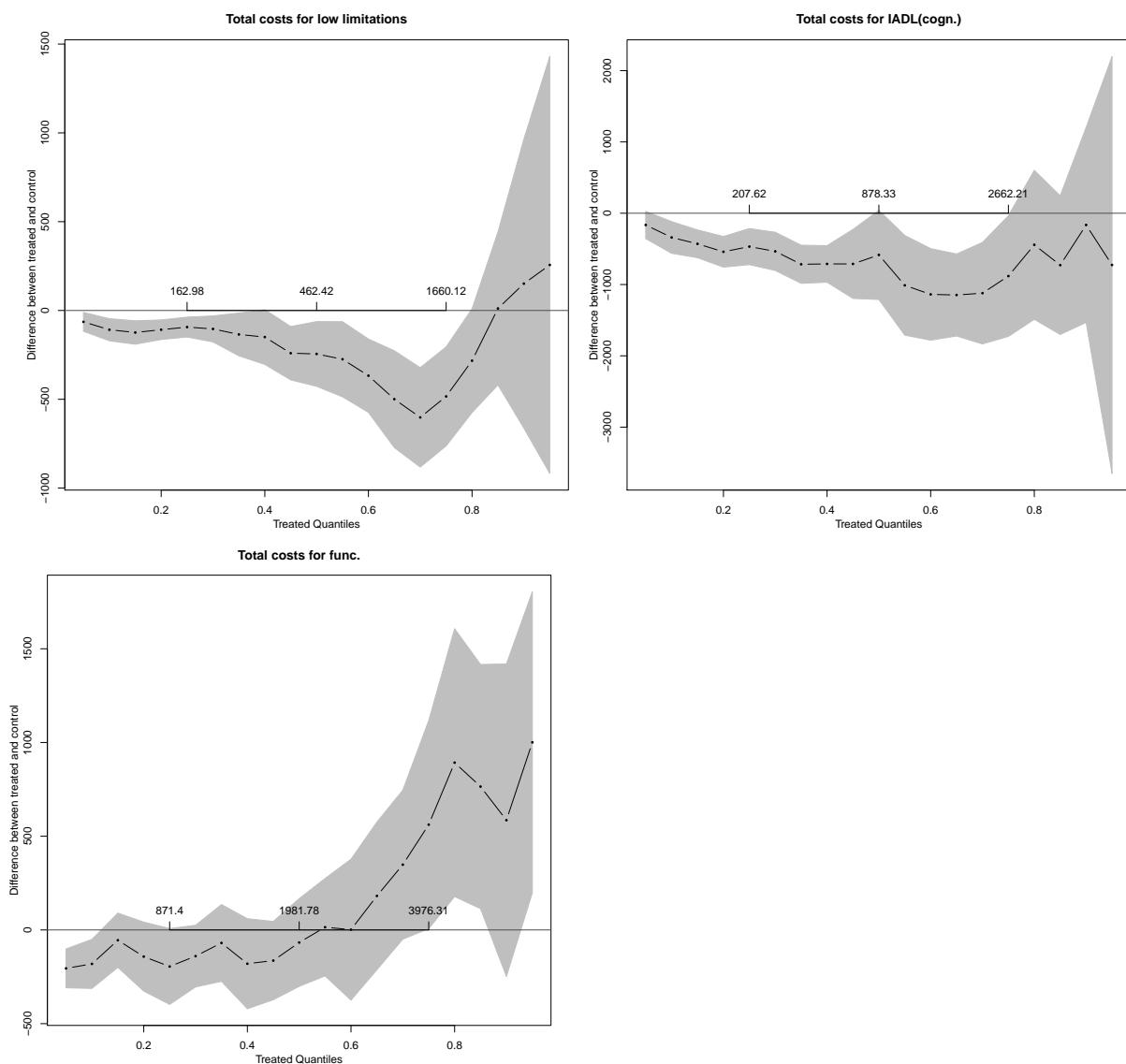


Figure 1.23: Graphs of the differences of the total cost at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the total cost before intervention (per month, per client)

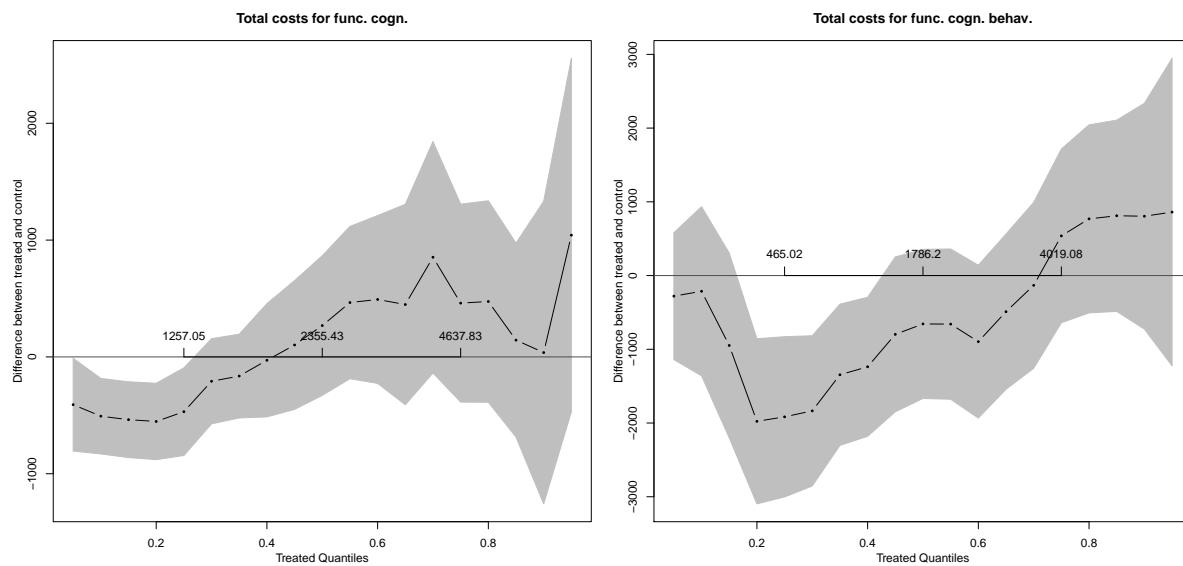


Figure 1.24: Graphs of the differences of the total cost at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the total cost before intervention (per month, per client)

### 1.1.8 Social care services

Table 1.18: Average costs per month (before evaluations)

	Fam. care		Household aid		Meals-on-Wheels	
	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>						
Mean T	1098.5	1174	237.8	322.4	14.1	25.6
IC95 T	740/1473	739/1632	192/288	250/412	7/22	14/37
Missing T (%)	57.1	70.7	39.9	60.9	39.9	60.5
Mean C	394.1	287.1	284.4	344.8	11.6	9.1
IC95 C	181/686	237/346	252/318	312/375	7/16	5/14
Missing C (%)	57.9	38.6	4.2	10	4.2	10
<b>IADL (cogn.)</b>						
Mean T	1249	1131.5	320.7	372.5	35.2	56.1
IC95 T	955/1541	797/1487	247/402	290/450	25/46	40/72
Missing T (%)	50.3	58.9	33.2	50.7	33.2	50.2
Mean C	779.8	618	512.9	575.2	36.9	27.9
IC95 C	537/1017	408/849	450/573	507/643	28/45	20/36
Missing C (%)	43.7	49.7	1.4	16.1	1.4	16.1
<b>Func.</b>						
Mean T	1460.1	1615.5	350.1	378.8	24.3	40.5
IC95 T	1152/1760	1216/2045	278/431	310/458	15/34	28/54
Missing T (%)	45.5	60.3	28.5	51.2	28.5	51.2
Mean C	1128.6	1178.9	522.6	537.3	44	43
IC95 C	818/1479	840/1547	456/587	462/623	34/54	33/52
Missing C (%)	50.8	50.3	7	14.5	7	14.5
<b>Func. cogn.</b>						
Mean T	2304.1	2974.9	424.2	479.5	35.9	59.9
IC95 T	1719/2881	2252/3702	258/609	320/655	17/60	31/90
Missing T (%)	43.2	61.7	34.6	49.4	34.6	48.1
Mean C	2064.7	1997.6	608.3	606.7	15.7	17.2
IC95 C	1435/2802	1283/2693	480/748	470/758	6/27	7/28
Missing C (%)	46.9	48.1	1.2	11.1	1.2	11.1
<b>Func. cogn. behav.</b>						
Mean T	2951.4	2407.6	450.6	633.7	38	45.8
IC95 T	2026/3930	1496/3325	242/688	389/922	9/74	11/88
Missing T (%)	34.8	39.1	21.7	30.4	21.7	30.4
Mean C	2318.3	1801.1	569.2	560.4	20.6	19.1
IC95 C	959/3759	826/2891	335/857	360/772	1/47	1/40
Missing C (%)	43.5	26.1	0	8.7	0	8.7

### 1.1.9 Number of days at home and in residential care facilities for six months

Table 1.19: Average number of days for 6 months

	Temp. NH		Hosp.		Def. NH		Days home		Days alive
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Aft	Aft
<b>Low limit.</b>									
Mean T	0.2	1.5	10.7	10.6	2.3	153.8	149.4	180.5	
Mean C	1.1	0.3	4	5.3	3.3	159.7	157.3	182.2	
Diff. TC. IC95	-1.9/0	0.1/2	3.9/9	2.5/8	-4/2	-14/3	-16.7/1	-2.9/-1	
<b>IADL (cogn.)</b>									
Mean T	1.7	3.3	15	13.9	8.7	148.1	135.8	178.1	
Mean C	0.7	1.3	4.9	4.7	5.9	156.7	145.2	174.2	
Diff. TC. IC95	-0.8/4	-0.4/5	4.7/16	4.7/14	-3.8/10	-24/7	-27.6/8	-2.3/10	
<b>Func.</b>									
Mean T	1.4	6.7	17.5	18.5	9.9	157.8	134.1	172.8	
Mean C	0.4	1.7	5.5	6.3	3.1	159.8	151.4	177.5	
Diff. TC. IC95	0.2/2	2.4/7	9.2/15	9/15	3.1/11	-8.3/4	-25.9/-8	-9.2/-1	
<b>Func. cogn.</b>									
Mean T	2.2	8.5	16.3	15.1	10.9	160	137.1	174.5	
Mean C	0.8	2.9	5	7.6	3.2	170.4	155.7	172.4	
Diff. TC. IC95	-0.7/4	0.7/10	5.8/18	3/12	1.1/14	-19.9/-1	-30.4/-5	-6.5/10	
<b>Func. cogn. behav.</b>									
Mean T	1.4	7	19.6	18.7	16.9	149.4	131	176.9	
Mean C	0	2.7	8.4	5.6	0.6	173.1	170.1	178.6	
Diff. TC. IC95	0.2/3	-1.1/11	-0.8/25	2.3/25	5.6/29	-42.2/-8	-61.3/-17	-11.1/8	

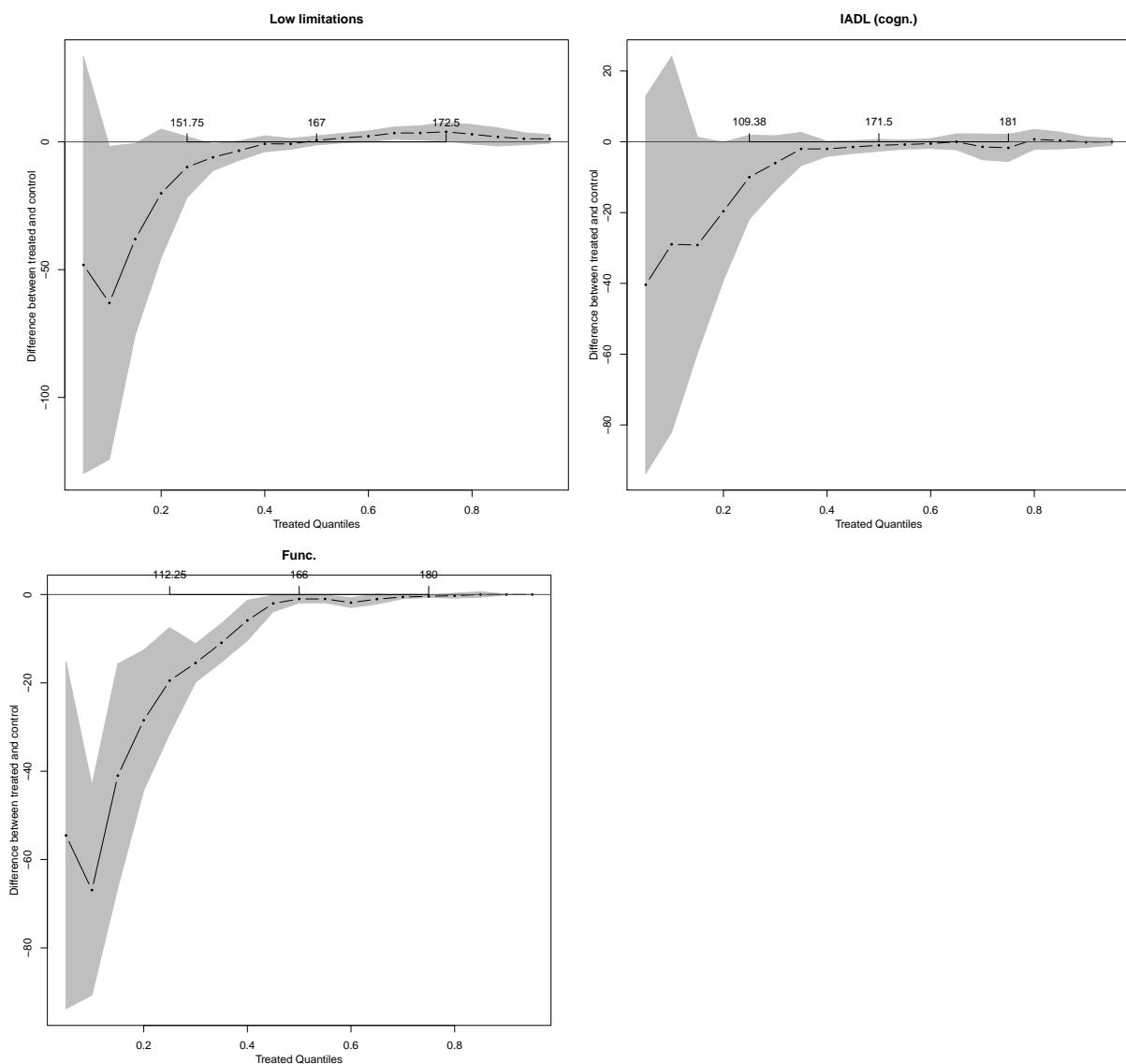


Figure 1.25: Graphs of the differences of days spent in hospital between treated and control, for six months, only for people with at least one hospitalisation, adjusted according to the proxy of the socio economic status and the number of days alive for six months

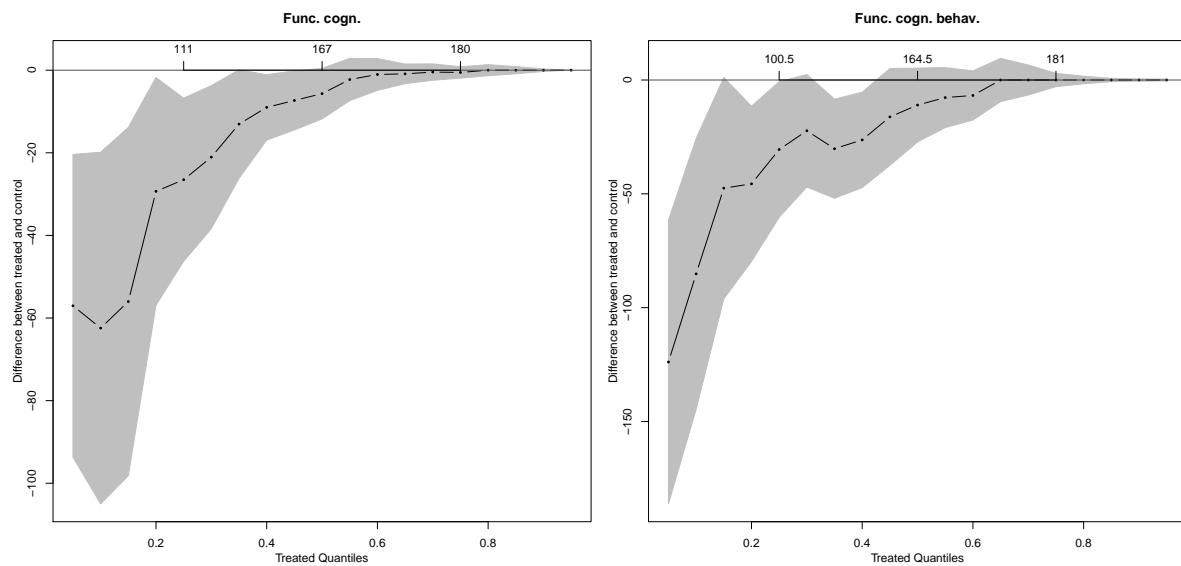


Figure 1.26: Graphs of the differences of days spent in hospital between treated and control, for six months, only for people with at least one hospitalisation, adjusted according to the proxy of the socio economic status and the number of days alive for six months

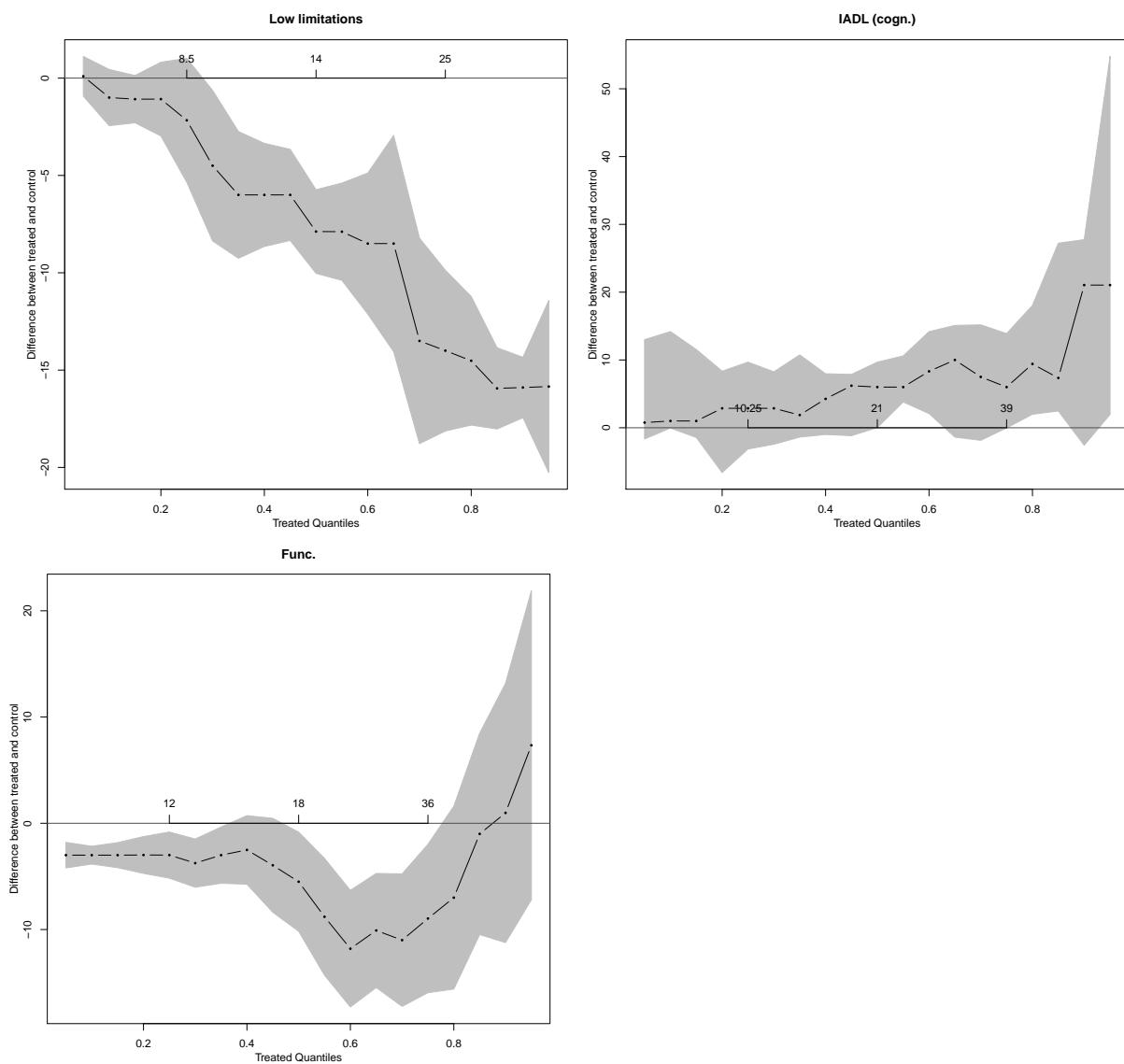


Figure 1.27: Graphs of the differences of days spent in hospital between treated and control, for six months, only for people with at least one hospitalisation, adjusted according to the proxy of the socio economic status and the number of days alive for six months

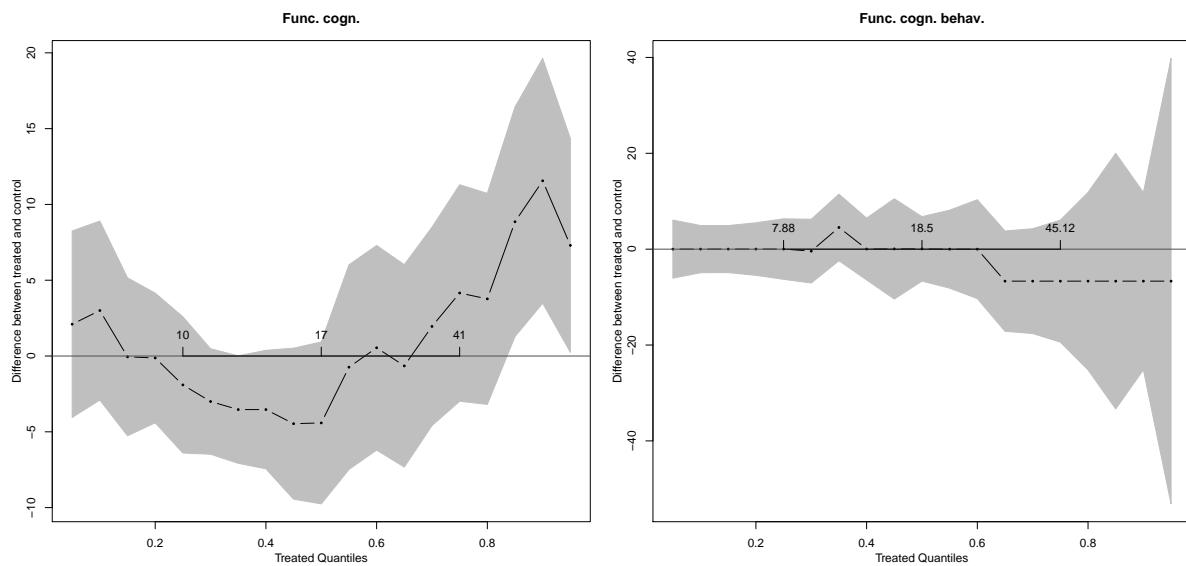


Figure 1.28: Graphs of the differences of days spent in hospital between treated and control, for six months, only for people with at least one hospitalisation, adjusted according to the proxy of the socio economic status and the number of days alive for six months

## 1.2 Comparison with the IMA control group

### 1.2.1 Description of disability groups

- At inclusion

Table 1.20: Proportion above the cut off of BelRAi scales

	No event	Nursing	Hospi	STI	Nursing, hospi
IADL	44.21	78.84	57.47	80	81.13
ADL	21.34	60.75	34.48	70	62.26
CPS	15.85	26.28	12.64	30	20.75
Behav.	10.98	17.06	6.90	10	10.38
DRS	30.43	29.41	16.28	0	22.12
N	328.00	293.00	87.00	10	106.00

- Six months after the inclusion

Table 1.21: Proportion above the cut off of BelRAi scales

	No event	Nursing	Hospi	STI	Nursing, hospi
IADL	47.78	80.31	54.43	75.0	80.41
ADL	23.43	59.52	30.86	62.5	64.65
CPS	17.77	29.30	13.92	37.5	23.47
Behav.	9.90	16.60	6.17	0.0	9.18
DRS	27.15	28.91	11.11	0.0	15.46
N	328.00	293.00	87.00	10.0	106.00

## 1.2.2 Description of socio-demographic variables

Table 1.22: Sociodemographic characteristics for the treated and the control group depend on the health profiles

	No event		Nursing		Hospi		STI		Nursing, hospi	
	T	C	T	C	T	C	T	C	T	C
<b>Age</b>										
Median[IQR]	80[74-86]	80[74-84]	82[76-86]	82[76-87]	82[76-87]	80[74-85]	83[80-88]	86[81-89]	85[81-88]	85[80-88]
<b>Gender</b>										
% Men	30.79	45.12	32.42	32.42	31.03	44.83	10	0	21.7	43.4
% Women	69.21	54.88	67.58	67.58	68.97	55.17	90	100	78.3	56.6
<b>ICG</b>										
% No ICG	41.77	-	22.53	-	32.18	-	10	-	14.15	-
% No cohabitant	41.46	-	47.78	-	59.77	-	80	-	62.26	-
% Cohabitant	16.77	-	29.69	-	8.05	-	10	-	23.58	-
<b>Region</b>										
Bruxelles	36.89	9.76	14.33	4.44	17.24	9.2	10	20	4.72	10.38
Flandre	63.11	60.06	85.67	64.16	82.76	57.47	90	40	95.28	64.15
Wallonie	0	30.18	0	31.4	0	33.33	0	40	0	25.47
<b>Median income</b>										
Low	34.45	25.91	14.33	20.14	16.09	31.03	10	60	4.72	30.19
Medium	61.59	47.56	80.2	51.88	81.61	49.43	90	30	91.51	53.77
High	3.96	26.52	5.46	27.99	2.3	19.54	0	10	3.77	16.04
<b>N</b>										
Unique value	328	310	293	236	87	78	10	10	106	73



### 1.2.3 Utilisation of services

#### Appropriate use of services (six months post inclusion)

Table 1.23: IC difference of mean between treated and control for the dependency IMA outcomes

	Nursing Care N months		Short term institu. N stays		Day care center N days	
	Use	Users	Use	Users	Use	Users
<b>No event</b>						
% / Med[IQR] C	16.77	4[2-6]	1.83	22[4-43]	1.22	31[17-46]
% / Med[IQR] T	34.76	6[3-6]	4.27	43[21-58]	1.22	25[8-44]
OR [IC95]	3.19[2.22/5.16]		2.31[0.89/9.51]		-[-/-]	
<b>Nursing</b>						
% / Med[IQR] C	84.64	6[6-6]	7.51	40[18-72]	3.75	47[20-71]
% / Med[IQR] T	84.3	6[4-6]	10.92	31[20-61]	8.19	25[16-55]
OR [IC95]	1.07[0.65/1.65]		1.32[0.68/2.92]		2.83[1.12/10.43]	
<b>Hospি.</b>						
% / Med[IQR] C	31.03	5[2-6]	11.49	52[26-90]	2.3	41[41-41]
% / Med[IQR] T	59.77	6[2-6]	9.2	19[9-34]	4.6	16[6-30]
OR [IC95]	3.45[1.93/7.36]		0.77[0.21/2.93]		-[-/-]	
<b>STI</b>						
% / Med[IQR] C	40	5[2-6]	60	14[12-96]	10	30[30-30]
% / Med[IQR] T	100	6[6-6]	20	44[31-56]	0	-
OR [IC95]	-[-/-]		-[-/-]		-[-/-]	
<b>Nursing, Hospি</b>						
% / Med[IQR] C	88.68	6[6-6]	12.26	55[34-72]	2.83	18[18-18]
% / Med[IQR] T	70.75	6[3-6]	22.64	34[15-59]	1.89	7[6-8]
OR [IC95]	0.33[0.12/0.7]		1.77[0.82/4.53]		-[-/-]	

Table 1.24: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Inclusion)

	No event		Nursing		Hospi		STI		Nursing, hospi	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or Incont	0(0)	100(43.4)	100(8.6)	0(0)	0(0)	100(13.6)	-(0)	-(0)	100(3.9)	0(0)
Low lim, ADL & Incont	0(0)	100(1.5)	100(0.4)	0(0)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
ADL lim	0(0)	100(31)	100(53.2)	0(0)	0(0)	100(54.3)	0(0)	100(30)	100(64.1)	0(0)
Incont	0(0)	100(1.5)	100(0.4)	0(0)	0(0)	100(2.5)	-(0)	-(0)	100(1)	0(0)
ADL & Incont lim	0(0)	100(6.9)	100(21.7)	0(0)	0(0)	100(4.9)	60(30)	40(20)	100(19.4)	0(0)
ADL ? No Incont	0(0)	100(15.7)	100(15.7)	0(0)	0(0)	100(24.7)	50(10)	50(10)	100(11.7)	0(0)
tot	0(0)	100(100)	100(100)	0(0)	0(0)	100(100)	40(40)	60(60)	100(100)	0(0)

Table 1.25: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated second eval)

	No event		Nursing		Hospি		STI		Nursing, hospi	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or Incont	16(6.9)	84(36.5)	87(7.5)	13(1.1)	63.6(8.6)	36.4(4.9)	-(0)	-(0)	75(2.9)	25(1)
Low lim, ADL & Incont	0(0)	100(1.5)	100(0.4)	0(0)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
ADL lim	61.2(19)	38.8(12)	83.1(44.2)	16.9(9)	61.4(33.3)	38.6(21)	100(30)	0(0)	66.7(42.7)	33.3(21.4)
Incont	25(0.4)	75(1.1)	100(0.4)	0(0)	50(1.2)	50(1.2)	-(0)	-(0)	100(1)	0(0)
ADL & Incont lim	57.9(4)	42.1(2.9)	86.2(18.7)	13.8(3)	25(1.2)	75(3.7)	100(50)	0(0)	65(12.6)	35(6.8)
ADL ? No Incont	51.2(8)	48.8(7.7)	88.1(13.9)	11.9(1.9)	70(17.3)	30(7.4)	100(20)	0(0)	91.7(10.7)	8.3(1)
tot	38.3(38.3)	61.7(61.7)	85(85)	15(15)	61.7(61.7)	38.3(38.3)	100(100)	0(0)	69.9(69.9)	30.1(30.1)

## Appropriate use of services (Twelve months post inclusion)

Table 1.26: IC differnce of mean between treated and control for the dependency IMA outcomes

	Nursing Care N months		Short term institu. N stays		Day care center N days	
	Use	Users	Use	Users	Use	Users
<b>No event</b>						
% / Med[IQR] C	20.12	4[2-8]	3.66	20[12-58]	1.22	66[29-105]
% / Med[IQR] T	34.45	8[3-9]	7.01	51[26-70]	1.83	75[28-101]
OR [IC95]	2.72[1.8/4.13]		1.58[0.68/4.41]		-[-/-]	
<b>Nursing</b>						
% / Med[IQR] C	75.77	12[9-12]	11.6	44[24-81]	3.75	79[47-96]
% / Med[IQR] T	63.48	8[4-12]	17.75	36[20-66]	10.24	50[26-101]
OR [IC95]	0.79[0.5/1.21]		1.26[0.73/2.21]		5.35[2.5/23.77]	
<b>Hosp.</b>						
% / Med[IQR] C	29.89	5[2-12]	13.79	44[12-88]	2.3	41[41-41]
% / Med[IQR] T	48.28	8[2-11]	11.49	30[8-68]	5.75	17[7-74]
OR [IC95]	2.28[1.22/5]		0.79[0.19/2.82]		-[-/-]	
<b>STI</b>						
% / Med[IQR] C	30	6[2-11]	60	40[16-112]	10	53[53-53]
% / Med[IQR] T	80	9[8-9]	40	38[17-65]	0	-
OR [IC95]	-[-/-]		-[-/-]		-[-/-]	
<b>Nursing, Hosp</b>						
% / Med[IQR] C	74.53	12[7-12]	14.15	65[54-114]	2.83	50[50-50]
% / Med[IQR] T	56.6	6[3-11]	26.42	42[22-64]	1.89	20[14-25]
OR [IC95]	0.47[0.18/1.08]		1.84[0.83/4.65]		-[-/-]	

Table 1.27: Proportion of utilisation of short term institutionalization depend on the levels of presence of icg and BelRAI profiles

No event				Nursing				Hospit				
	W	No Coh	Coh	tot	W	No Coh	Coh	tot	W	No Coh	Coh	tot
<b>low limit.</b>												
%	3.3(2.2)	1.6(0.7)	8.3(1.8)	3(1.5)	5.3(1.5)	11.5(2.1)	0(0)	7.8(1.4)	0(0)	12.5(3.8)	0(0)	5.9(2.3)
% zarit	/	100	/	/	/	100	-	100	-	/	-	/
<b>IADL, (cogn.)</b>												
%	5.3(0.7)	8.7(1.5)	7.1(1.8)	7.1(1.2)	0(0)	14.3(2.1)	33.3(1.1)	11.8(1.4)	0(0)	27.3(5.8)	0(0)	21.4(3.4)
% zarit	/	50	/	50	-	100	100	100	-	33.3	-	33.3
<b>func.</b>												
%	4.5(0.7)	10.8(2.9)	11.1(3.6)	9.1(2.1)	7.4(3)	13.2(6.4)	24.3(10.3)	15.2(6.8)	10(3.6)	13.6(5.8)	0(0)	11.4(4.6)
% zarit	/	100	50	75	/	60	40	50	/	0	-	0
<b>func., cogn.</b>												
%	25(0.7)	33.3(2.9)	0(0)	20.8(1.5)	28.6(3)	36.4(5.7)	28.6(11.5)	31.2(6.8)	-(0)	0(0)	100(14.3)	25(1.1)
% zarit	/	75	-	75	/	/	55.6	58.3	-	-	0	0
<b>func., cogn., behav.</b>												
%	-(0)	0(0)	66.7(3.6)	33.3(0.6)	0(0)	66.7(1.4)	33.3(2.3)	33.3(1.4)	-(0)	-(0)	-(0)	-(0)
% zarit	-	-	100	100	-	100	100	100	-	-	-	-
<b>tot</b>												
%	4.4(4.4)	8.1(8.1)	10.9(10.9)	7(7)	7.6(7.6)	17.9(17.9)	25.3(25.3)	17.7(17.7)	3.6(3.6)	15.4(15.4)	14.3(14.3)	11.5(11.5)
% zarit	-	77.8	75	76.9	-	78.6	58.8	67.7	-	16.7	0	14.3

Table 1.28: Proportion of utilisation of short term institutionalization depend on the levels of presence of icg and BelRAI profiles

STI				Nursing, hospi				
	W	No Coh	Coh	tot	W	No Coh	Coh	tot
<b>low limit.</b>								
<b>IADL, (cogn.)</b>								
%	-(0)	0(0)	-(0)	0(0)	0(0)	8.3(1.5)	100(8)	14.3(2.8)
% zarit	-	-	-	-	-	0	50	33.3
<b>func.</b>								
%	100(100)	75(37.5)	-(0)	80(40)	50(20)	26.3(15.2)	23.1(12)	28.1(15.1)
% zarit	/	/	-	/	/	/	100	/
<b>func., cogn.</b>								
%	-(0)	0(0)	0(0)	0(0)	0(0)	50(6.1)	50(16)	47.1(7.5)
% zarit	-	-	-	-	-	50	33.3	40
<b>func., cogn., behav.</b>								
%	-(0)	-(0)	-(0)	-(0)	0(0)	0(0)	0(0)	0(0)
% zarit	-	-	-	-	-	-	-	-
<b>tot</b>								
%	100(100)	37.5(37.5)	0(0)	40(40)	20(20)	24.2(24.2)	36(36)	26.4(26.4)
% zarit	-	0	-	0	-	42.9	57.1	50

## Inappropriate use of services (six months post inclusion)

Table 1.29: IC difference of mean between treated and control for the low value IMA outcomes

	Emergency N visits		GP out-of hours N visits		Hospilisation N visits	
	Use	Users	Use	Users	Use	Users
<b>No event</b>						
% / Med[IQR] C	16.77	1[1-1]	11.59	1[1-1]	18.9	1[1-2]
% / Med[IQR] T	18.9	1[1-2]	11.59	2[1-2]	32.01	1[1-2]
OR [IC95]	1.17[0.76/1.84]		1.05[0.6/1.86]		2.42[1.61/3.78]	
<b>Nursing</b>						
% / Med[IQR] C	29.69	1[1-2]	17.75	1[1-1]	33.79	1[1-2]
% / Med[IQR] T	28.67	1[1-2]	21.16	1[1-2]	46.08	1[1-2]
OR [IC95]	0.89[0.61/1.28]		1.37[0.88/2.15]		1.74[1.19/2.57]	
<b>Hospi.</b>						
% / Med[IQR] C	27.59	1[1-2]	18.39	1[1-2]	33.33	1[1-2]
% / Med[IQR] T	18.39	1[1-1]	10.34	1[1-2]	40.23	1[1-1]
OR [IC95]	0.75[0.34/1.78]		0.48[0.16/1.22]		1.36[0.7/2.54]	
<b>STI</b>						
% / Med[IQR] C	20	2[1-2]	0	-	30	1[1-2]
% / Med[IQR] T	10	2[2-2]	30	4[3-4]	40	2[1-2]
OR [IC95]	-[-/-]		-[-/-]		-[-/-]	
<b>Nursing, Hospi</b>						
% / Med[IQR] C	48.11	1[1-2]	25.47	1[1-2]	48.11	1[1-2]
% / Med[IQR] T	24.53	1[1-1]	17.92	1[1-1]	43.4	1[1-2]
OR [IC95]	0.44[0.22/0.83]		0.61[0.28/1.27]		0.8[0.45/1.43]	

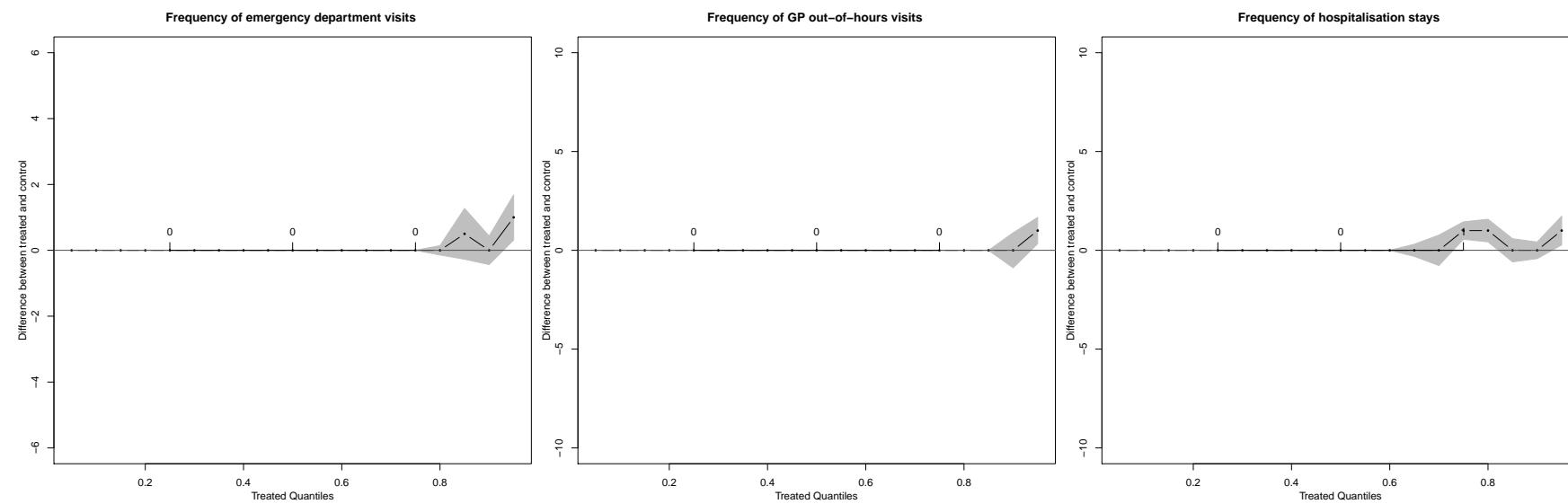


Figure 1.29: Regression quantile of inappropriate use of services (No event)

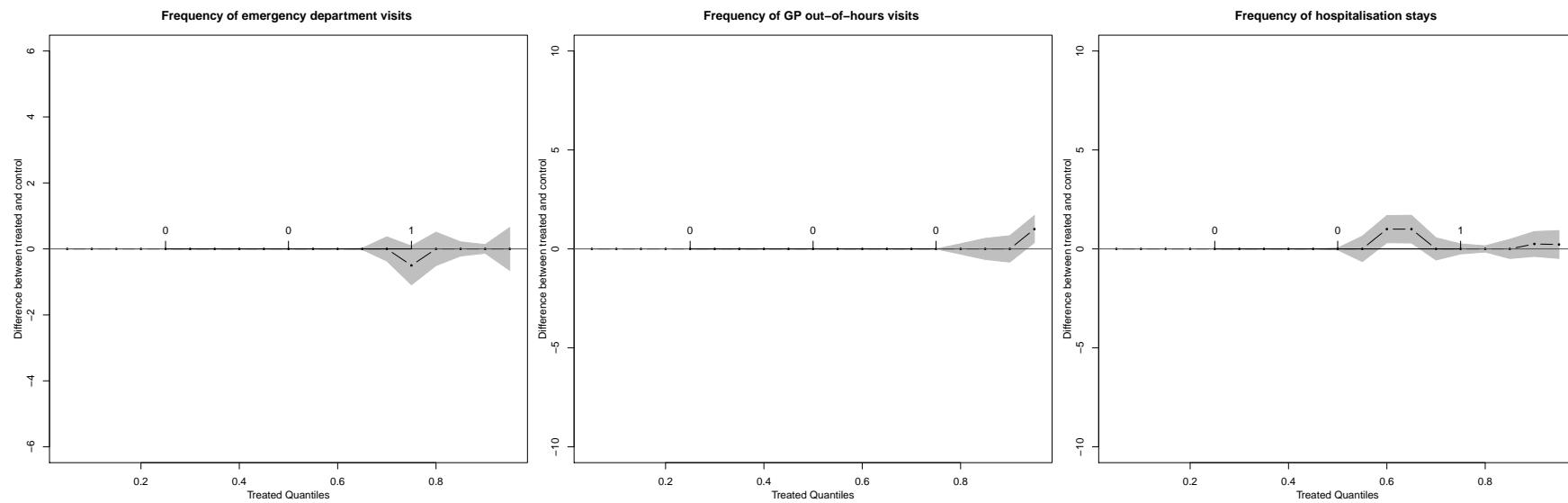


Figure 1.30: Regression quantile of inappropriate use of services (Nursing)

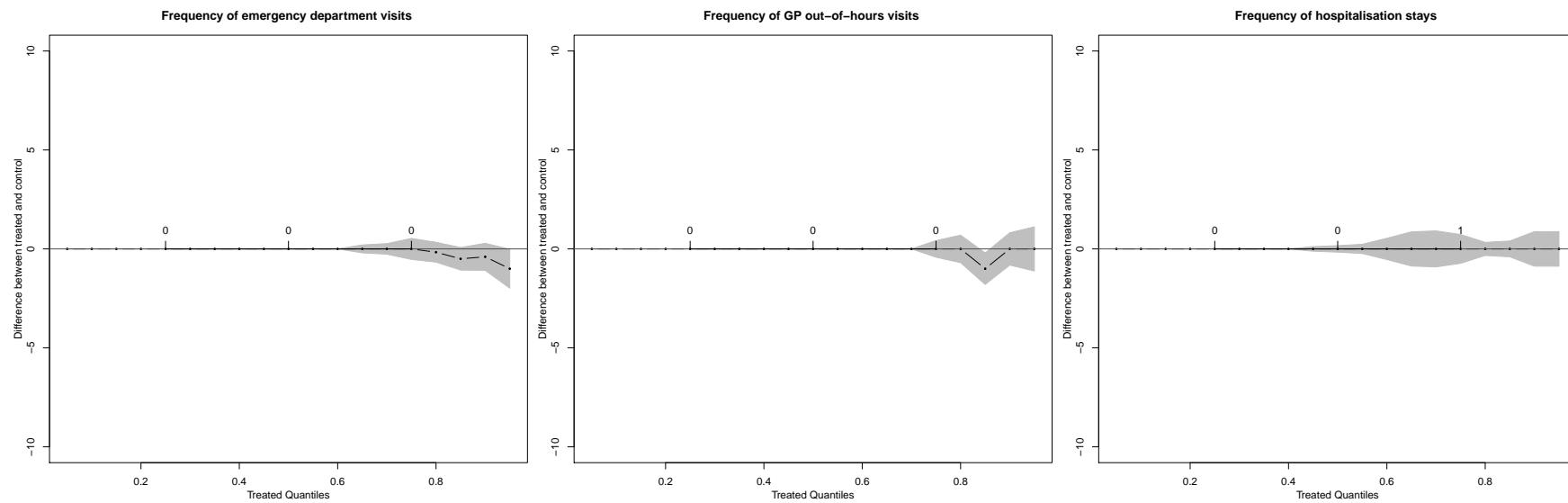


Figure 1.31: Regression quantile of inappropriate use of services (Hosp.)

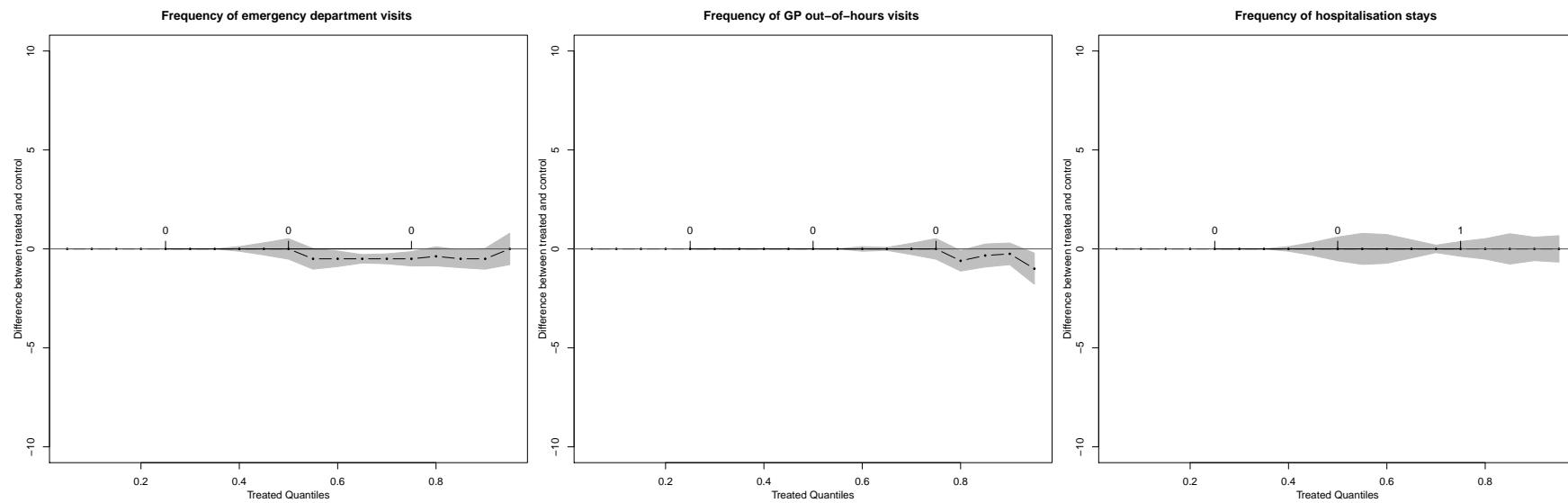


Figure 1.32: Regression quantile of inappropriate use of services (Nursing & Hospi.)

## Inappropriate use of services (twelve months post inclusion)

Table 1.30: IC difference of mean between treated and control for the low value IMA outcomes

	Emergency N visits		GP out-of hours N visits		Hospilisation N visits	
	Use	Users	Use	Users	Use	Users
<b>No event</b>						
% / Med[IQR] C	28.96	1[1-2]	19.82	1[1-1]	20.12	1[1-2]
% / Med[IQR] T	18.9	1[1-2]	21.34	2[1-2]	23.17	1[1-2]
OR [IC95]	0.46[0.31/0.68]		1.11[0.71/1.75]		1.22[0.81/1.92]	
<b>Nursing</b>						
% / Med[IQR] C	45.73	1[1-2]	26.62	1[1-2]	26.28	1[1-2]
% / Med[IQR] T	28.67	1[1-2]	33.79	2[1-3]	39.25	2[1-2]
OR [IC95]	0.41[0.29/0.6]		1.45[1.01/2.13]		2.19[1.5/3.37]	
<b>Hospi.</b>						
% / Med[IQR] C	42.53	1[1-2]	26.44	1[1-2]	20.69	1[1-3]
% / Med[IQR] T	18.39	1[1-1]	22.99	2[1-2]	29.89	1[1-2]
OR [IC95]	0.36[0.16/0.75]		0.79[0.38/1.68]		1.64[0.82/3.61]	
<b>STI</b>						
% / Med[IQR] C	20	2[2-2]	10	2[2-2]	20	1[1-2]
% / Med[IQR] T	10	2[2-2]	40	4[4-6]	30	2[1-2]
OR [IC95]	-[-/-]		-[-/-]		-[-/-]	
<b>Nursing, Hospi</b>						
% / Med[IQR] C	62.26	1[1-2]	27.36	1[1-2]	33.96	2[1-2]
% / Med[IQR] T	24.53	1[1-1]	26.42	1[1-2]	24.53	1[1-2]
OR [IC95]	0.19[0.09/0.34]		0.88[0.46/1.75]		0.62[0.32/1.18]	

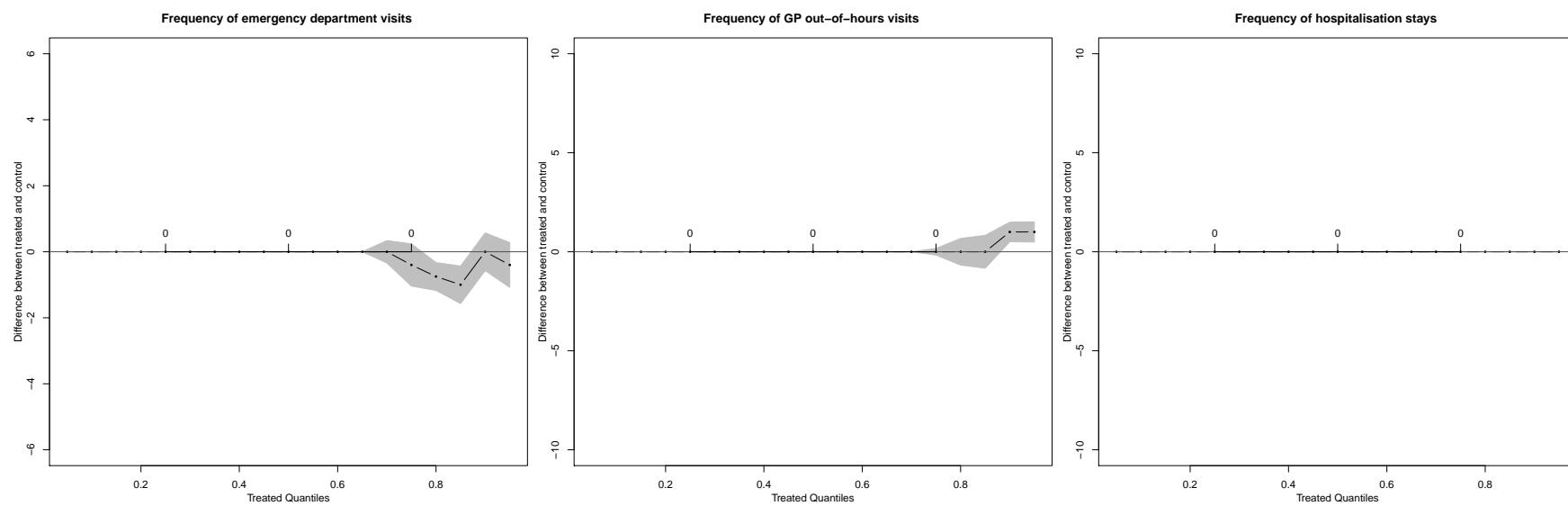


Figure 1.33: Regression quantile of inappropriate use of services (No event)

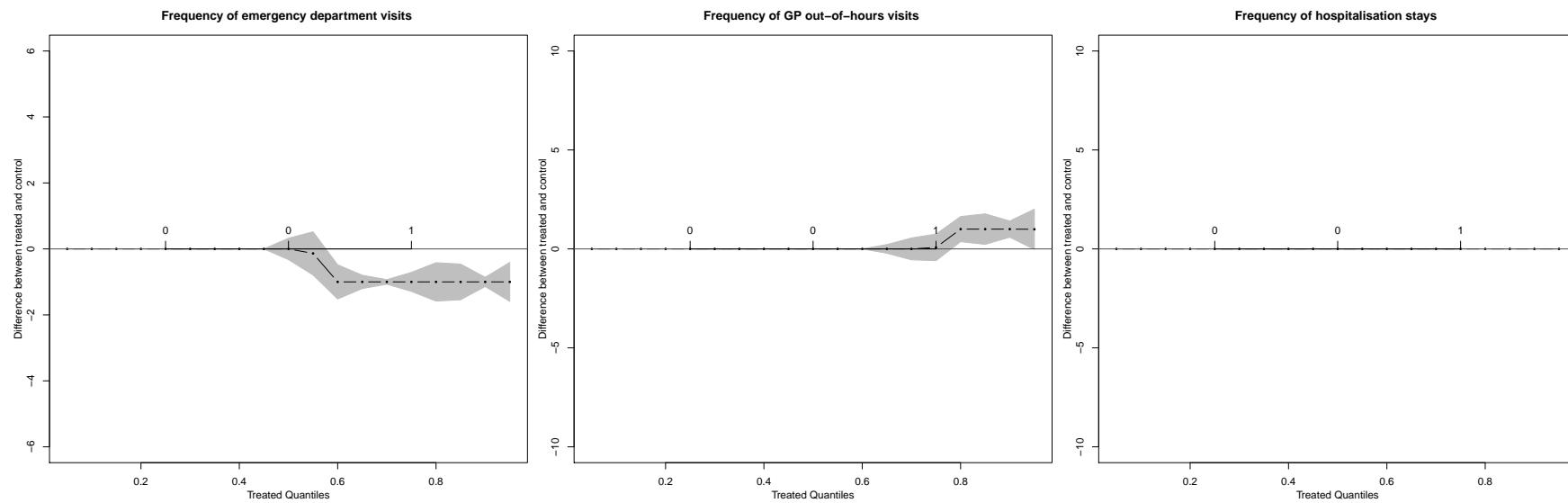


Figure 1.34: Regression quantile of inappropriate use of services (Nursing)

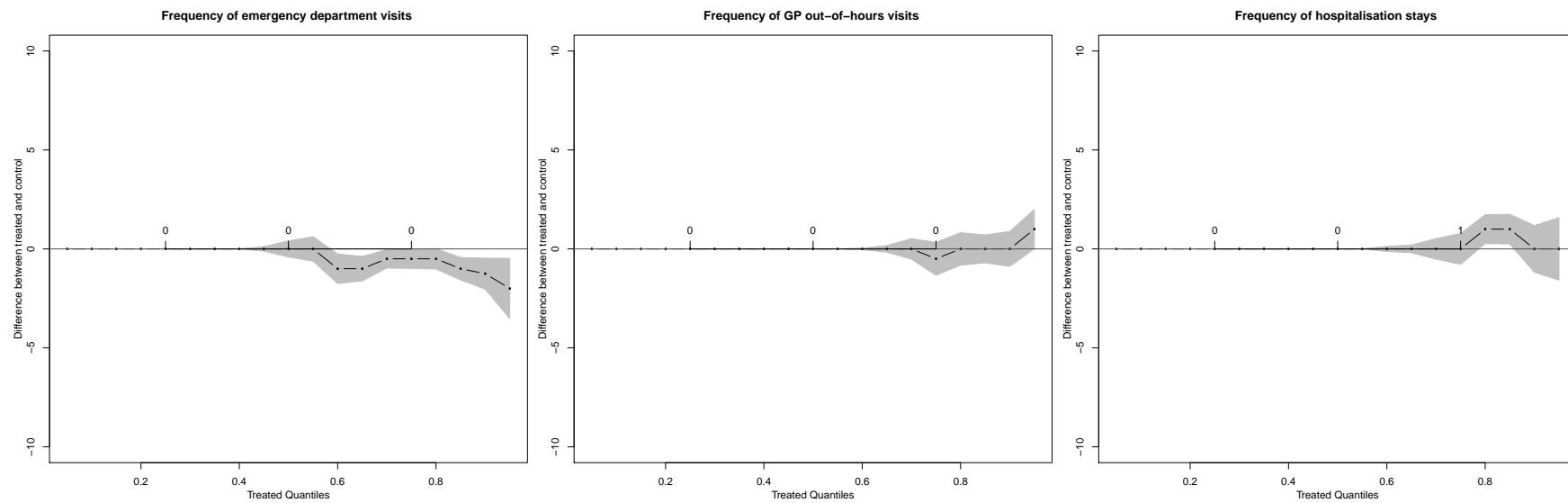


Figure 1.35: Regression quantile of inappropriate use of services (Hosp.)

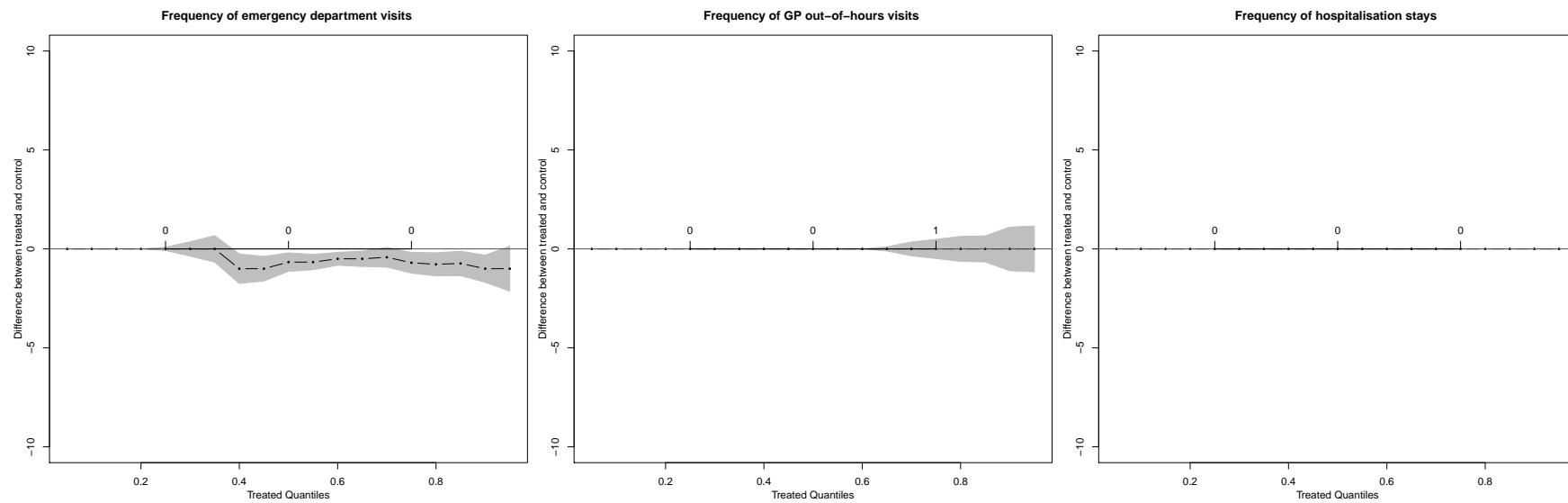


Figure 1.36: Regression quantile of inappropriate use of services (Nursing & Hospi.)

### Definitive institutionalisation and death (six months post inclusion)

Table 1.31: IC of ratio of incidence rate between treated and control for the death and the definitive institutionalisation

	Definitive institu.	Death
<b>No event</b>		
IR T	0.0111	0.0021
IR C	0.0047	5e-04
IC95	1.09/5.2	0.45/36.06
<b>Nursing</b>		
IR T	0.0194	0.0106
IR C	0.0095	0.004
IC95	1.12/3.75	1.09/6.27
<b>Hospi.</b>		
IR T	0.0104	0.01
IR C	0.0208	0.0058
IC95	0.17/1.46	0.41/7.16
<b>STI</b>		
IR T	0.0172	0
IR C	0.0909	0.0175
IC95	0.02/1.7	0/NaN
<b>Nursing, Hospi</b>		
IR T	0.0309	0.0166
IR C	0.0221	0.0016
IC95	0.68/2.88	1.35/82.26

Table 1.32: Proportion of utilisation of definitive institutionalization depend on the levels of presence of icg and BelRAI profiles

No event				Nursing				Hospi				
	W	No Coh	Coh	tot	W	No Coh	Coh	tot	W	No Coh	Coh	tot
<b>low limit.</b>												
%	5.4(3.6)	1.6(0.7)	8.3(1.8)	4.2(2.1)	10.5(3)	3.8(0.7)	0(0)	5.9(1)	6.2(3.6)	12.5(3.8)	0(0)	8.8(3.4)
% zarit	/	100	/	/	/	100	-	100	-	/	-	/
<b>IADL, (cogn.)</b>												
%	15.8(2.2)	17.4(2.9)	0(0)	12.5(2.1)	0(0)	19(2.9)	33.3(1.1)	14.7(1.7)	0(0)	9.1(1.9)	0(0)	7.1(1.1)
% zarit	/	50	/	50	-	100	100	100	-	33.3	-	33.3
<b>func.</b>												
%	13.6(2.2)	10.8(2.9)	11.1(3.6)	11.7(2.7)	3.7(1.5)	20.6(10)	16.2(6.9)	15.9(7.2)	0(0)	9.1(3.8)	33.3(14.3)	8.6(3.4)
% zarit	/	100	50	75	/	60	40	50	/	0	-	0
<b>func., cogn.</b>												
%	50(1.5)	33.3(2.9)	37.5(5.5)	37.5(2.7)	14.3(1.5)	31.8(5)	20(8)	23.4(5.1)	-(0)	100(5.8)	0(0)	75(3.4)
% zarit	/	75	-	75	/	/	55.6	58.3	-	-	0	0
<b>func., cogn., behav.</b>												
%	-(0)	0(0)	33.3(1.8)	16.7(0.3)	0(0)	66.7(1.4)	33.3(2.3)	33.3(1.4)	-(0)	-(0)	-(0)	-(0)
% zarit	-	-	100	100	-	100	100	100	-	-	-	-
<b>tot</b>												
%	9.5(9.5)	9.6(9.6)	12.7(12.7)	10.1(10.1)	6.1(6.1)	20(20)	18.4(18.4)	16.4(16.4)	3.6(3.6)	15.4(15.4)	14.3(14.3)	11.5(11.5)
% zarit	-	77.8	75	76.9	-	78.6	58.8	67.7	-	16.7	0	14.3

Table 1.33: Proportion of utilisation of definitive institutionalization depend on the levels of presence of icg and BelRAI profiles

	STI				Nursing, hospi			
	W	No Coh	Coh	tot	W	No Coh	Coh	tot
<b>low limit.</b>								
<b>IADL, (cogn.)</b>								
%	-(0)	0(0)	-(0)	0(0)	0(0)	16.7(3)	0(0)	9.5(1.9)
% zarit	-	-	-	-	-	0	50	33.3
<b>func.</b>								
%	0(0)	0(0)	-(0)	0(0)	16.7(6.7)	21.1(12.1)	38.5(20)	24.6(13.2)
% zarit	/	/	-	/	/	/	100	/
<b>func., cogn.</b>								
%	-(0)	50(12.5)	0(0)	33.3(10)	100(6.7)	62.5(7.6)	50(16)	58.8(9.4)
% zarit	-	-	-	-	-	50	33.3	40
<b>func., cogn., behav.</b>								
%	-(0)	-(0)	-(0)	-(0)	0(0)	0(0)	0(0)	0(0)
% zarit	-	-	-	-	-	-	-	-
<b>tot</b>								
%	0(0)	12.5(12.5)	0(0)	10(10)	13.3(13.3)	24.2(24.2)	36(36)	25.5(25.5)
% zarit	-	0	-	0	-	42.9	57.1	50

### Definitive institutionalisation and death (twelve months post inclusion)

Table 1.34: IC of ratio of incidence rate between treated and control for the death and the definitive institutionalisation

	Definitive institu.	Death
<b>No event</b>		
IR T	0.0091	0.0057
IR C	0.0034	0.0023
IC95	1.4/5.05	1.14/5.39
<b>Nursing</b>		
IR T	0.0166	0.0129
IR C	0.0078	0.008
IC95	1.31/3.45	1/2.63
<b>Hospi.</b>		
IR T	0.0108	0.0071
IR C	0.0141	0.0049
IC95	0.33/1.73	0.46/4.54
<b>STI</b>		
IR T	0.0093	0.0087
IR C	0.0571	0.0187
IC95	0.02/1.43	0.04/5.18
<b>Nursing, Hospi</b>		
IR T	0.0277	0.0121
IR C	0.0176	0.0091
IC95	0.88/2.84	0.6/2.93

## 1.2.4 Health care costs linked to disability for the NIHDI

Table 1.35: Average costs of health care services and technical equipment for six months (per month, per patient)

	Interv.		Nurs.		Phys.		Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>														
Mean T	0	100.8	1.6	97.8	16.8	34.7	0.5	4.4	0.8	5.1	1.5	4.1		
Mean C	0	0	4.8	39.2	16.1	19.6	0.8	4.4	1.5	2.6	3.8	6		
IC95	0/0	95/105	-5/-1	31/86	-6/7	6/25	-1/1	-6/6	-3/1	-1/6	-6/1	-7/4		
<b>Nursing</b>														
Mean T	0	90.8	298.6	391.2	44.2	57.8	8.4	15.6	10.2	19.1	0.8	3.5		
Mean C	0	0	346.6	413.3	48.8	58.8	6.3	6.1	16.4	19.9	4.3	2.9		
IC95	0/0	87/95	-103/3	-91/43	-17/11	-18/15	-4/9	-3/27	-13/1	-10/8	-7/-1	-3/5		
<b>Hospi</b>														
Mean T	0	86.8	4.7	160.3	17.8	51.6	0	3.4	1.1	1.7	2.6	0		
Mean C	0	0	12.1	69.3	26.8	35.6	2.3	7.2	0.3	6.8	0	0		
IC95	0/0	81/92	-16/-1	23/183	-21/3	-3/35	-5/0	-11/2	0/3	-18/2	0/8	0/0		
<b>STI</b>														
Mean T	0	106.4	20.4	641.5	0.9	110.6	0	61.2	0	39.5	0	0		
Mean C	0	0	153.9	196.1	44	92	0.6	3.9	2.4	5.3	0	0		
IC95	0/0	89/119	-283/-9	196/733	-106/-3	-98/120	-2/0	-8/168	-5/0	-2/77	0/0	0/0		
<b>Nursing, hospi</b>														
Mean T	0	68	281.7	293.8	48.7	79.9	5.2	12	14.1	14.2	5.3	8.5		
Mean C	0	0	316.5	456.9	55.6	80.5	2.7	15	2.5	20.6	10.6	2.1		
IC95	0/0	61/75	-99/26	-267/-70	-26/11	-30/27	-2/8	-13/8	1/24	-20/10	-18/6	-4/19		

Table 1.36: Average costs of health care services and technical equipment for twelve months (per month, per patient)

	Interv.		Nurs.		Phys.		Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>														
Mean T	0	96.9	8.8	133.9	17.2	35.8	0.8	5.2	0.8	4.7	1.6	5.1		
Mean C	0	0	2.9	45.5	9.9	21.1	0.8	2.8	1.3	2.4	1.9	5.7		
IC95	0/0	92/102	3/9	58/123	2/14	5/25	-1/1	-1/6	-2/1	-1/6	-2/2	-4/3		
<b>Nursing</b>														
Mean T	0	83	314.6	445.9	44.4	62.4	7.9	15.5	8.8	17.6	1.4	3.3		
Mean C	0	0	223.2	401.5	35.5	57	4.4	10.3	12.3	20.5	2.5	2.2		
IC95	0/0	78/88	50/136	-31/119	-2/20	-11/21	0/8	-7/18	-8/1	-12/5	-3/1	-2/4		
<b>Hospi</b>														
Mean T	0	86.4	4.3	190.2	12.3	44	0.2	8	0.7	2.5	1.3	0		
Mean C	0	0	6	69.3	15.6	28.7	2	6.2	0.3	7.5	0	2.6		
IC95	0/0	80/92	-6/3	39/219	-11/4	-4/33	-4/0	-5/10	0/1	-18/2	0/4	-6/0		
<b>STI</b>														
Mean T	0	99.6	57.3	779.1	19.1	126.4	0	30.4	0	29.8	0	0		
Mean C	0	0	94	224.5	29.8	83.3	0.3	14	1.9	9.4	0	0		
IC95	0/0	75/119	-131/48	229/921	-56/23	-61/115	-1/0	-17/62	-4/0	0/46	0/0	0/0		
<b>Nursing, hospi</b>														
Mean T	0	63.5	311.9	320.5	51.9	80.2	5.7	9	14.7	18.9	2.6	4.2		
Mean C	0	0	209.8	462.3	41.3	80.2	1.3	16.5	2.7	16.4	5.3	5.3		
IC95	0/0	56/70	43/160	-241/-40	-6/27	-29/30	1/8	-16/1	2/25	-9/19	-8/3	-7/5		

Table 1.37: Average costs of other health care services for six months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Bef	Aft	Bef	Aft	
<b>No event</b>												
Mean T	1.2	2.6	0.2	17.2	36.8	12.3	28.6	1.7	2.4	744.3	939.9	
Mean C	1	4.3	0	5.1	29.9	17.8	23.9	1.7	1.7	492.6	352.6	
IC95	-2/4	-7.7/3	0/1	-0.6/24	-21/36	-8.3/-3	0/10	-0.7/1	-0.2/2	35.6/483	322.2/856	
<b>Nursing</b>												
Mean T	18.2	23.6	6.6	46.5	86.4	37.2	44.3	2.2	2.4	1105.6	1506.9	
Mean C	9.8	12.2	0.5	32.4	32.1	43.7	42.4	2.5	2.1	916.3	672.9	
IC95	-3.7/22	-2.5/25	1.1/12	-11.3/38	12.8/92	-14.6/3	-7.5/14	-1.5/1	-0.7/1	-88.3/483	481.1/1188	
<b>Hospi</b>												
Mean T	0	7.6	0	29.5	61.4	23.6	30	0.7	1.3	1820.8	1930.4	
Mean C	0	14.6	1.1	56.7	81.5	24.3	31	0.9	1.6	1305.6	894.3	
IC95	0/0	-41.6/15	-4.5/0	-80.6/23	-110.3/80	-7.8/6	-10.7/8	-1.1/1	-1.5/1	126.7/908	310.6/1718	
<b>STI</b>												
Mean T	0	0	185.2	85.1	47.7	1.9	116.1	0	0	2632.7	1124.3	
Mean C	0	24.7	50.6	130.8	457.6	19.2	24.4	0.7	2.4	0	389.9	
IC95	0/0	-74/0	3.2/303	-255.7/165	-843.4/-43	-37/-2	34.3/176	-2.1/0	-5.8/0	636.2/5630	-403.6/2143	
<b>Nursing, hospi</b>												
Mean T	0.7	1	3.1	100.5	147.2	33.6	36.3	1	0.6	1995.2	2413.6	
Mean C	0	4.9	0	61.7	87.9	37.9	48.5	1.5	1	2165.3	1573.2	
IC95	0/2	-10.1/1	0.2/7	-20.3/99	-23.8/142	-12.9/4	-23.8/0	-1.4/1	-1.2/1	-748.7/375	145.1/1612	

Table 1.38: Average costs of other health care services for twelve months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Bef	Aft	Bef	Aft	
<b>No event</b>												
Mean T	2	5.2	0.1	19	79.8	15.2	34.6	1.9	2.4	585.8	885.7	
Mean C	0.5	4.7	0	6.2	42.3	11.1	23.8	1.1	1.6	443.9	380.2	
IC95	-1.1/6	-6.8/7	0/0	3.5/24	-0.7/75	1.9/7	5/18	0.1/1	0/2	-2.2/315	273.8/760	
<b>Nursing</b>												
Mean T	20.2	29.6	4.9	53.3	172	38.6	49.9	2.1	2.5	915.1	1439	
Mean C	5.4	11.1	0.2	36.4	61.2	30.4	41.6	1.6	2	949.3	738.5	
IC95	3.7/29	4.9/34	1.5/9	-5.9/42	57.6/171	1.2/15	-2.2/22	-0.2/2	-0.3/1	-242.6/173	388.2/1042	
<b>Hospi</b>												
Mean T	0	8.7	0	26.5	97.2	22.4	31.9	0.7	1.2	1000.7	1584.9	
Mean C	0	14.8	0.6	42.3	117.2	14.7	29.4	0.6	1.4	710.1	739.6	
IC95	0/0	-43.3/17	-1.7/0	-52.7/17	-124.1/77	2.7/13	-7.2/12	-0.4/1	-1.2/1	65.1/529	149.5/1589	
<b>STI</b>												
Mean T	0	0	123.5	113.4	110.3	18.4	145.5	1	0	2354.4	992	
Mean C	0	33.3	81.7	105.2	479.1	16.9	25.8	1.1	1.4	167.8	336.3	
IC95	0/0	-99.9/0	-52.8/135	-164.9/199	-746.6/0	-22.8/28	45.3/213	-3/2	-3.6/0	496.8/5084	-355/1705	
<b>Nursing, hospi</b>												
Mean T	1.8	1.5	1.6	79.7	279.4	34	37	1	0.7	1110.7	1936.7	
Mean C	0	6.2	0	57.4	129.3	25.8	46.4	0.9	0.9	1424.8	1377	
IC95	0/5	-12.1/1	0.1/4	-22.6/67	30.1/273	2.2/14	-21.6/2	-0.5/1	-0.9/1	-677.1/28	-59.9/1196	

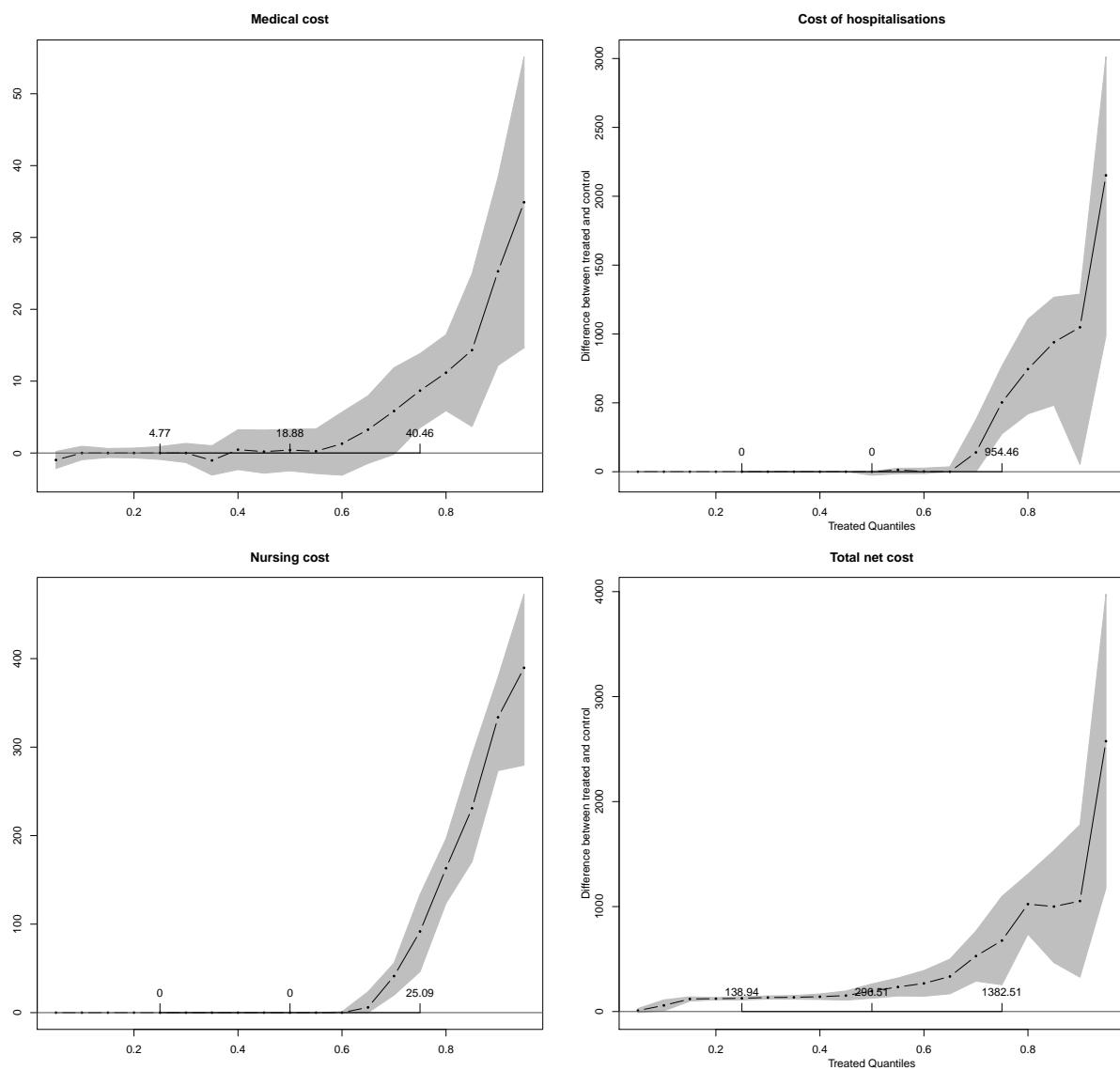


Figure 1.37: Graphs of the differences of costs between treated and control, **for the NHDI, for six months, for the group of No Event**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

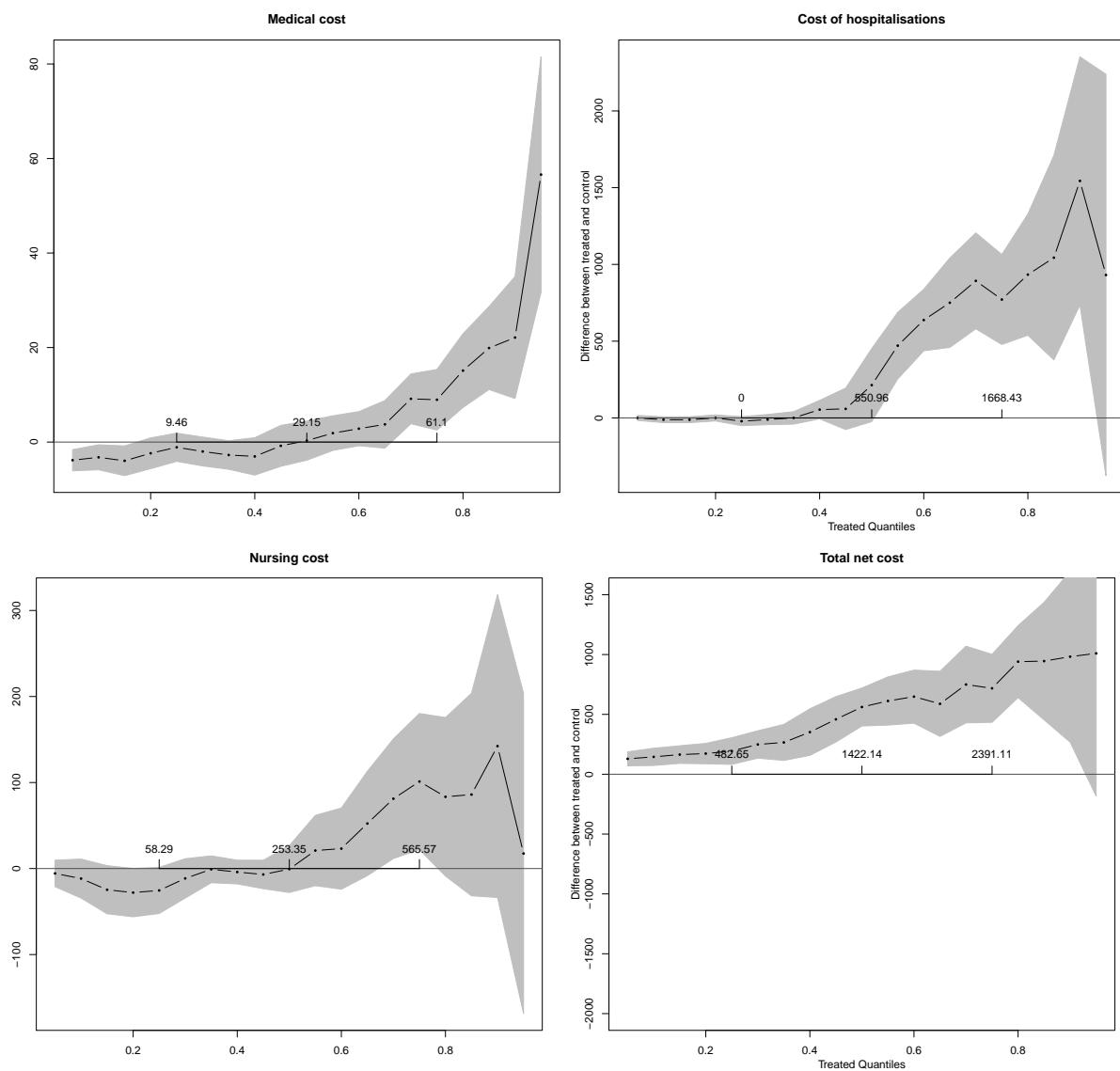


Figure 1.38: Graphs of the differences of costs between treated and control, **for the NIHDI, for six months, for the group of Nursing**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

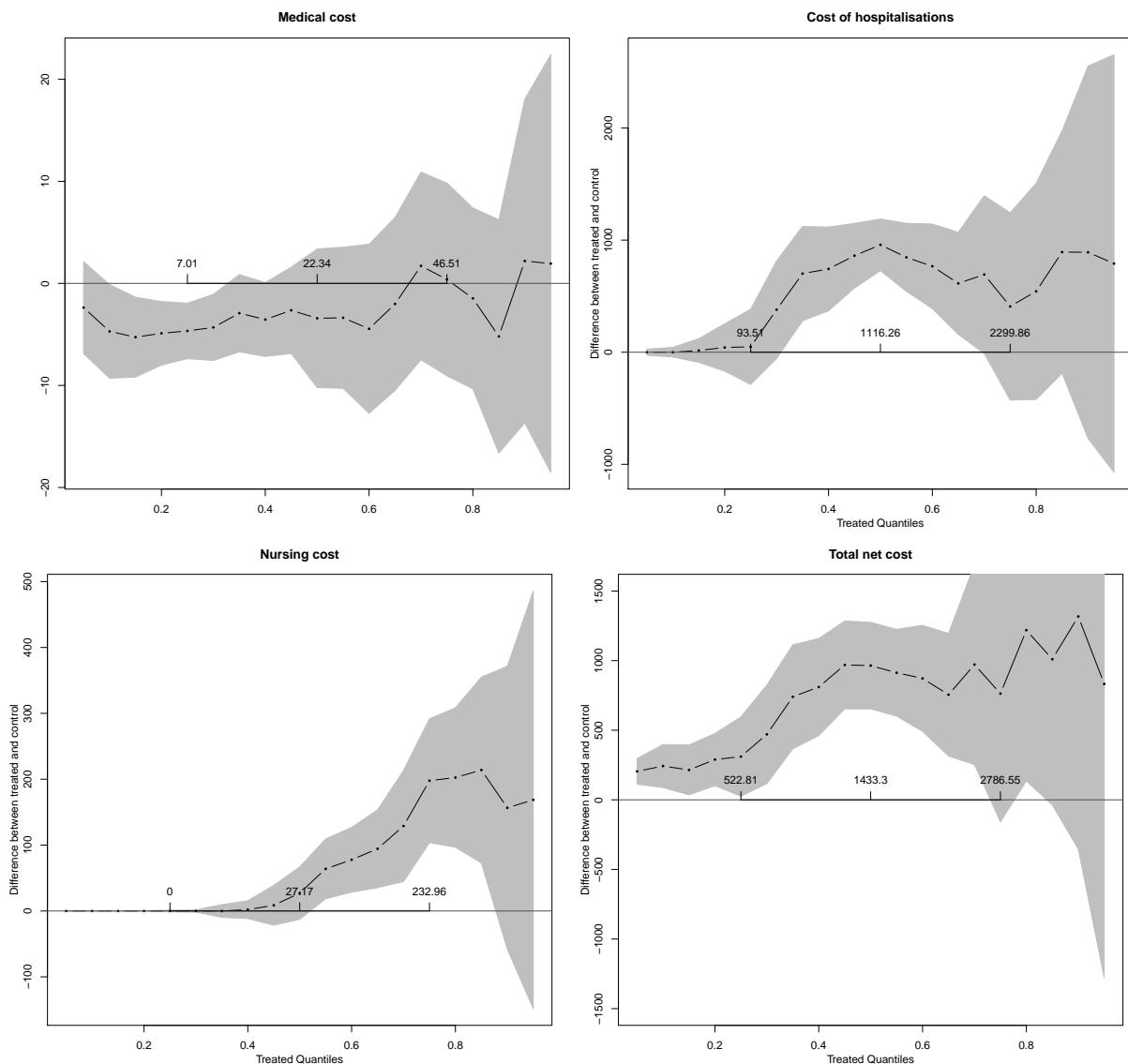


Figure 1.39: Graphs of the differences of costs between treated and control, **for the NIHDI for six months, for the group of Hospi** (per month, per patient), adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

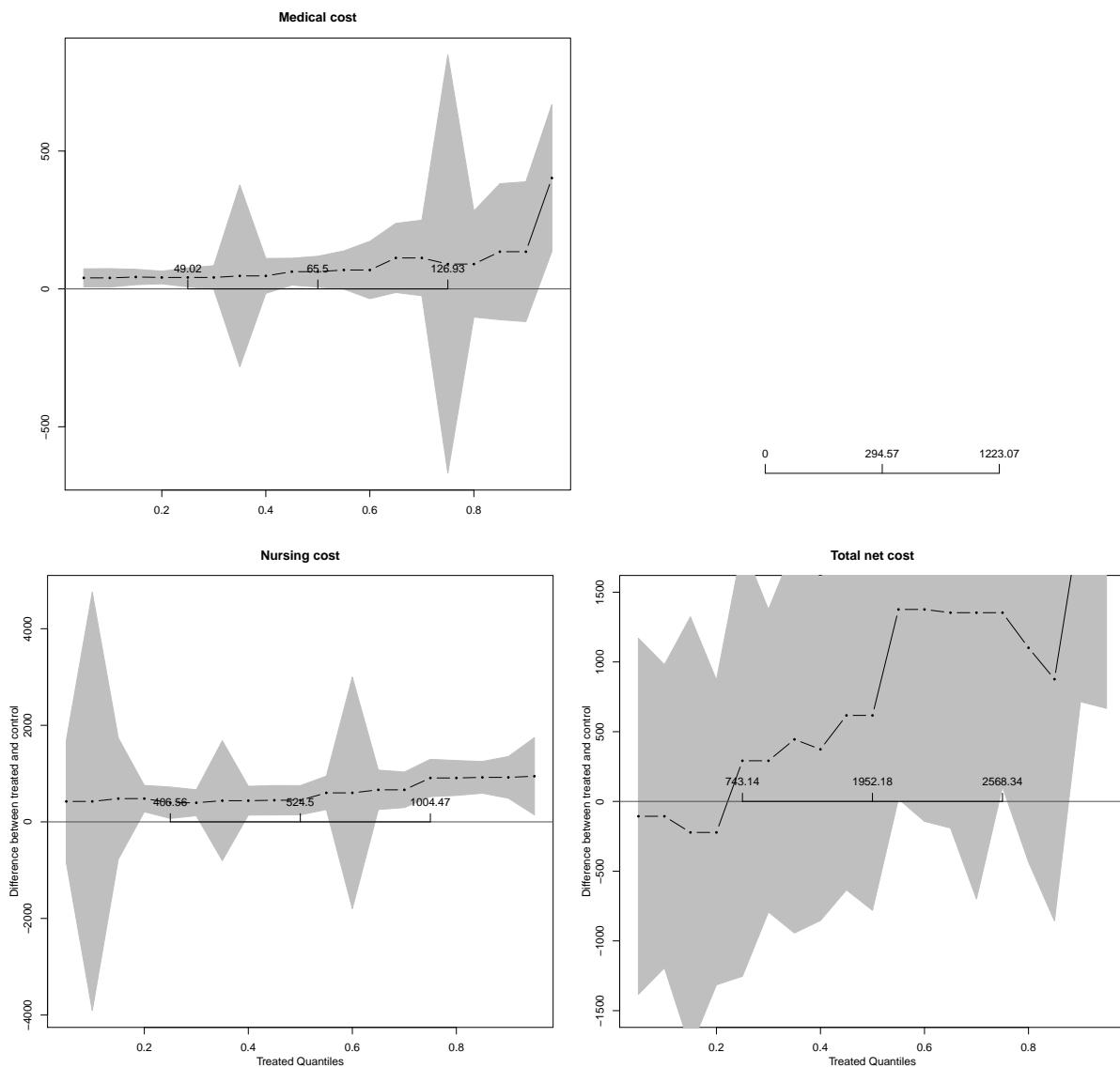


Figure 1.40: Graphs of the differences of costs between treated and control, **for the NIHDI for six months for the group of STI** (per month, per patient), adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

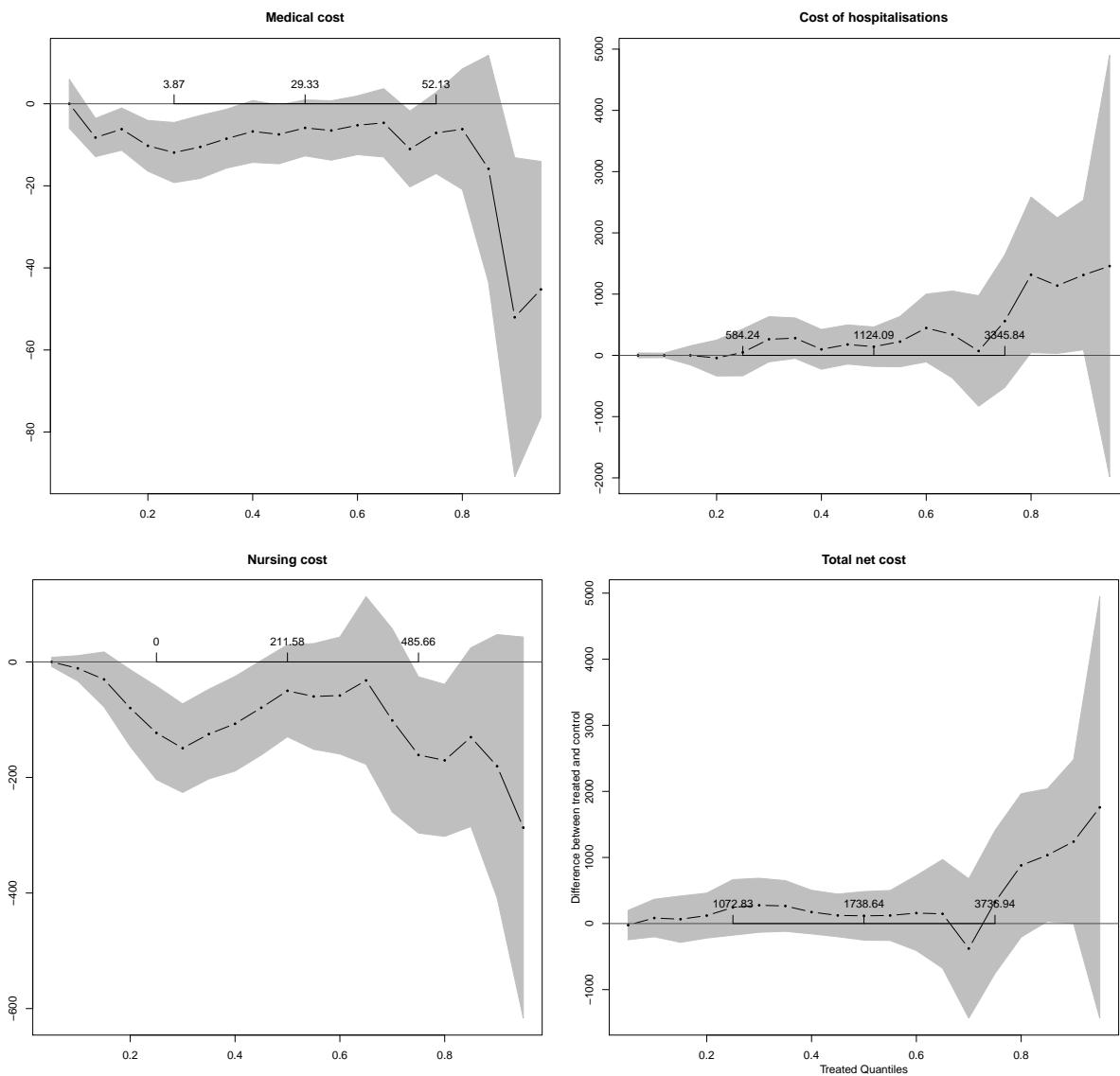


Figure 1.41: Graphs of the differences of costs between treated and control, **for the NIHDI, for six months, for the group of Nursing, Hospi**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

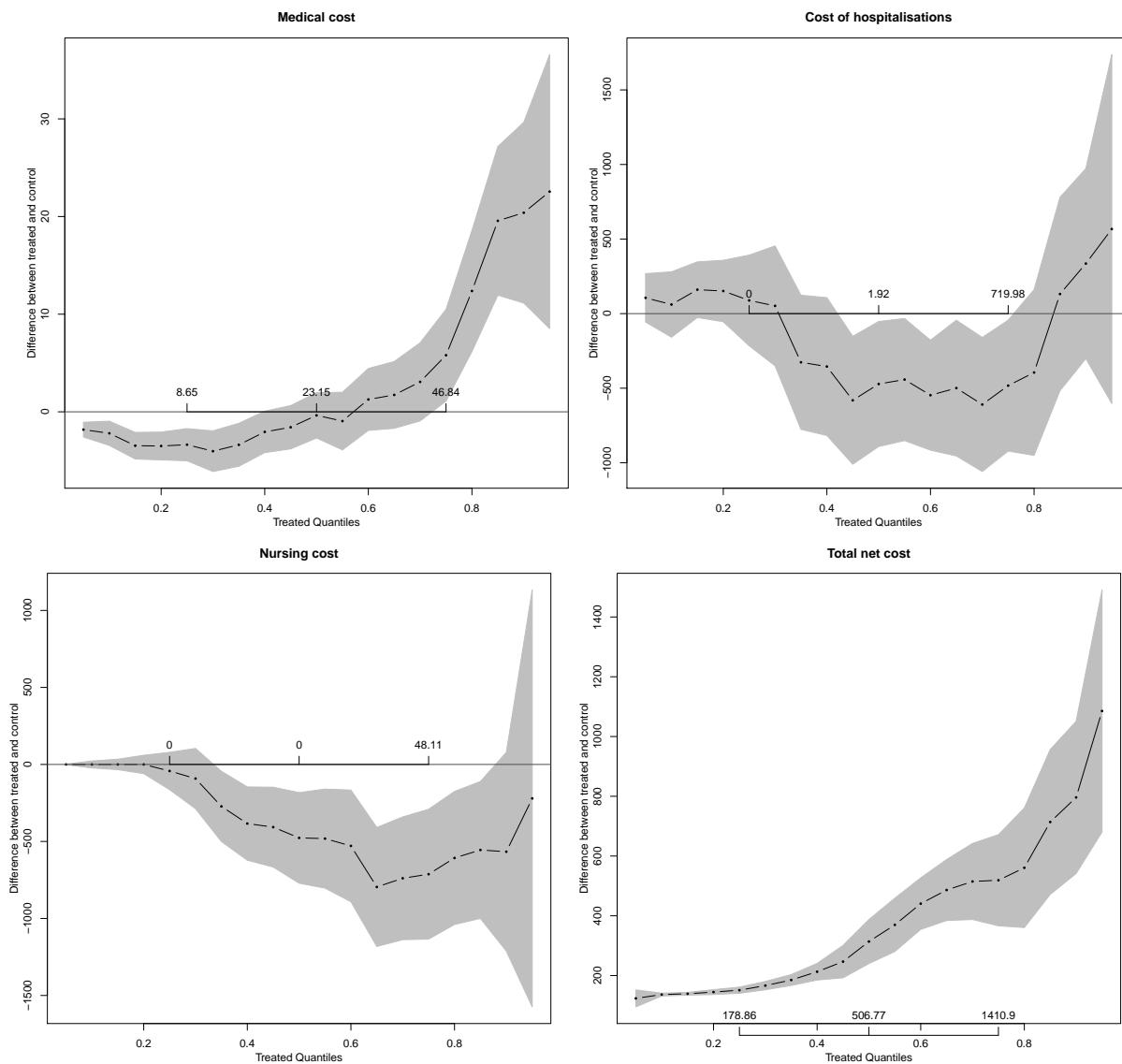


Figure 1.42: Graphs of the differences of costs between treated and control, **for the NIHDI, for twelve months, for the group of No Event**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

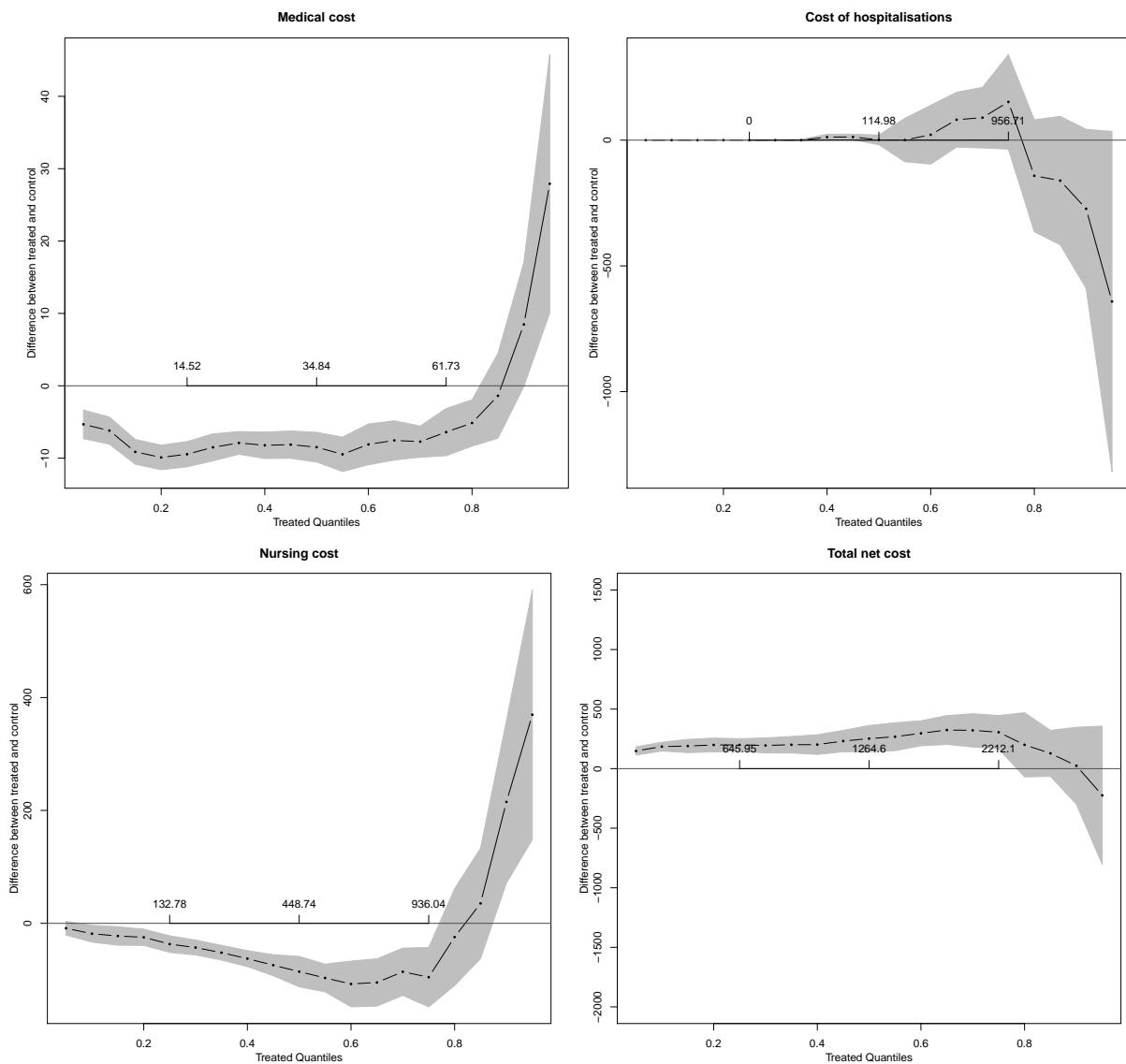


Figure 1.43: Graphs of the differences of costs between treated and control, **for the NIHDI, for twelve months, for the group of Nursing**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive

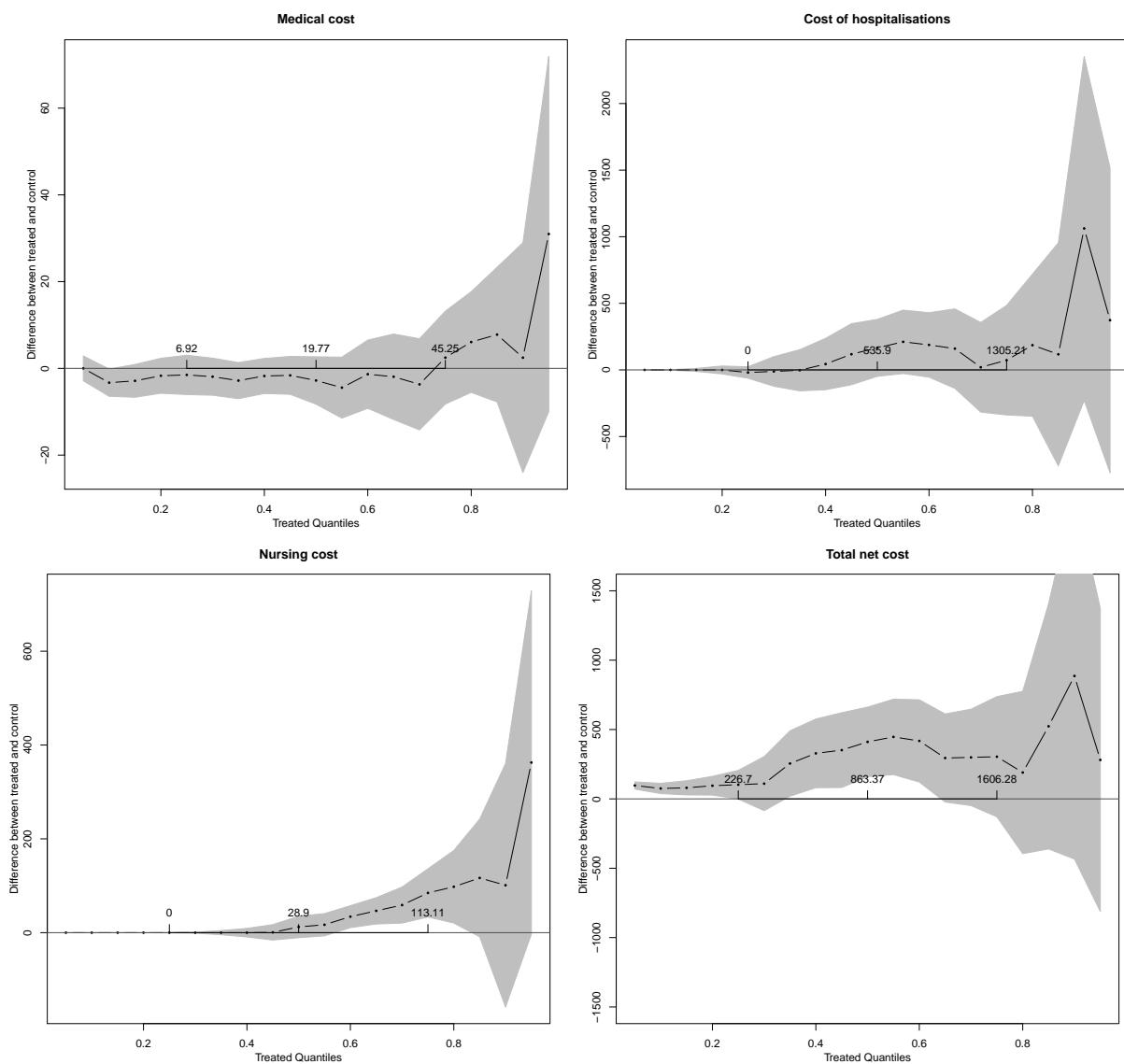


Figure 1.44: Graphs of the differences of costs between treated and control, **for the NIHDI, for twelve months, for the group of Hospi**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

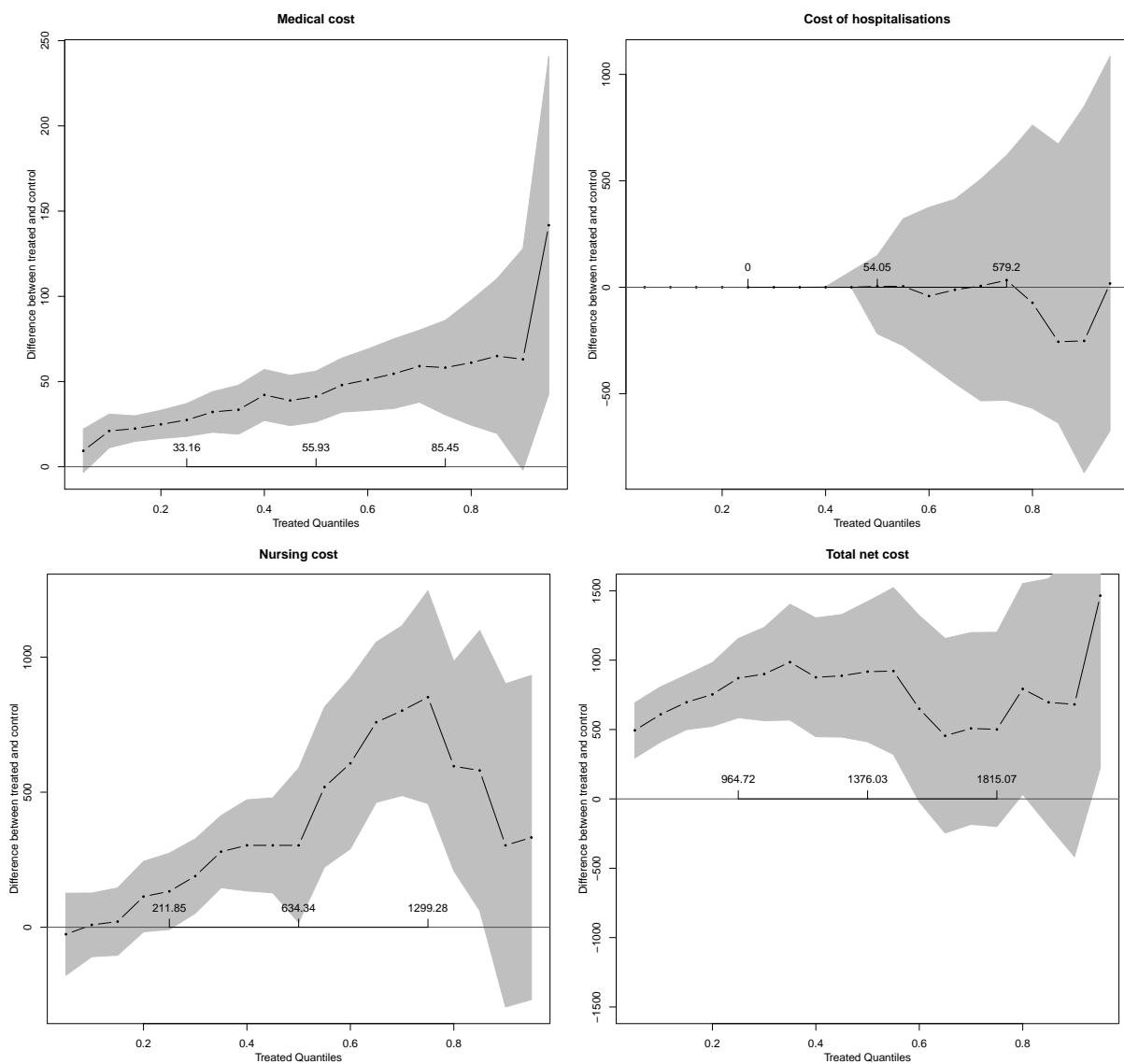


Figure 1.45: Graphs of the differences of costs between treated and control, **for the NIHDI, for twelve months, for the group of STI**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

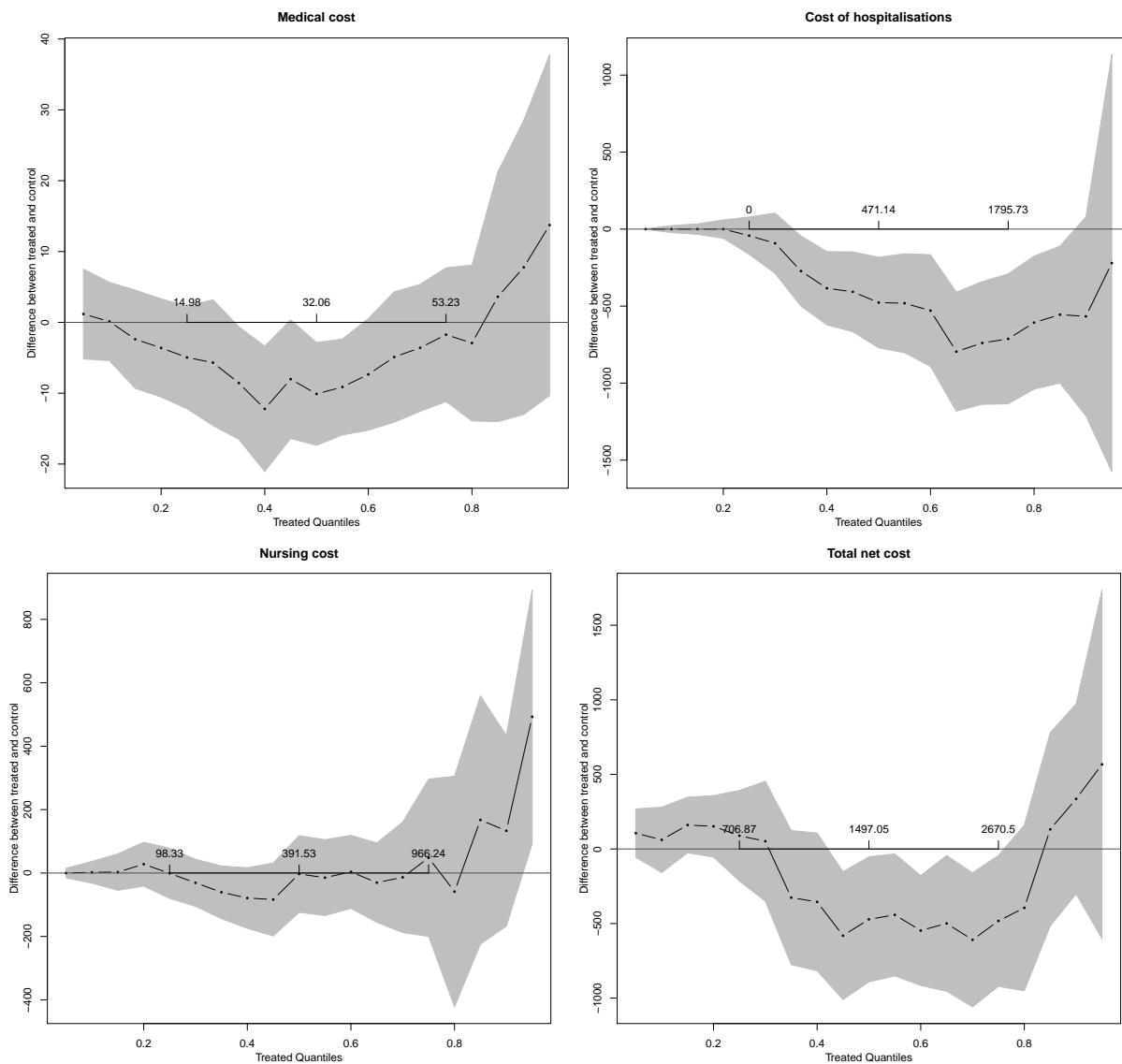


Figure 1.46: Graphs of the differences of costs between treated and control, **for the NIHDI, for twelve months, for the group of Nursing, Hospi**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

## 1.2.5 Health care costs linked to disability for the patients

Table 1.39: Average costs of health care services and technical equipment for six months (per month, per patient)

	Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>										
Mean T	0	0	3	7.1	0	0	0	0	1.7	3.8
Mean C	0	0	3.5	6.1	0	0	0	0	4.2	10.1
IC95	0/0	-0.1/0	-2.2/0.9	-1.9/3.5	0/0	0/0	0/0	-0.1/0.1	-7.2/1.6	-14.8/1.3
<b>Nursing</b>										
Mean T	0.2	0.1	8.4	10.1	0	0.6	0	0	0.4	1.3
Mean C	2.1	2	9.7	10.8	0	0	0	0	4	2.8
IC95	-3.1/-0.9	-3.2/-0.8	-4.1/1.5	-3.8/2.5	0/0	-0.1/1.6	0/0	0/0	-7.2/-0.7	-6.2/2.3
<b>Hosp</b>										
Mean T	0	0	5.4	10.5	0	0.3	0	0	2.5	0
Mean C	0.2	3.1	6.4	8.6	0	0	0	0	0	0
IC95	-0.4/-0.1	-7.5/-0.1	-4/2.6	-2.5/6.4	0/0	0/0.8	0/0	0/0	0/7.4	0/0
<b>STI</b>										
Mean T	0	0	0.2	11.2	0	0	0	0	0	0
Mean C	0	0	9.3	18.4	0	0	0	0	0	0
IC95	0/0	-0.1/0	-18.9/-1.2	-20.2/5.2	0/0	0/0	0/0	0/0	0/0	0/0
<b>Nursing,hospi</b>										
Mean T	4.4	6.8	9.6	17.3	0	0.2	0	0	0.7	0
Mean C	1.2	0.8	8.8	18.1	0	0.3	0	0	3.2	0.2
IC95	-2.7/-0.2	-0.1/0	-2.1/5.6	-4.5/6.4	0/0	0/0	0/0.2	0/0	-6.2/15	-6.3/23.5

Table 1.40: Average costs of health care services and technical equipment for twelve months (per month, per patient)

	Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>										
Mean T	0	0	3.6	7.4	0.1	0.1	0	0.1	1.4	3.5
Mean C	0	0.4	2.2	5.9	0	0	0	0	2.1	7.7
IC95	0/0.1	-1/0	0.1/2.5	-1.3/4.2	0/0.1	0/0.2	0/0	0/0.1	-3.3/1.4	-9.6/0.8
<b>Nursing</b>										
Mean T	0.3	0.1	8.4	10.4	0	0.3	0	0	0.8	3.3
Mean C	1.1	1.5	6.9	10.8	0	0	0	0	2.6	2.1
IC95	-1.5/-0.1	-2.4/-0.7	-0.7/3.8	-3.3/2.6	0/0.1	-0.1/0.8	0/0.1	0/0.1	-4.1/0.2	-2.6/5.8
<b>Hospi</b>										
Mean T	0	0	3.7	8.6	0	0.1	0	0	1.2	0
Mean C	0.1	1.9	3.7	6.6	0	0	0	0	0	1.9
IC95	-0.2/0	-4.4/0	-2/2.2	-1.7/5.7	0/0	0/0.4	0/0	0/0	0/3.7	-7.8/0
<b>STI</b>										
Mean T	0	0	2.2	15.1	0	0	0	0	0	0
Mean C	0	0.3	6.3	15.3	0	0	0	0	0	0
IC95	0/0	-0.7/0	-10.8/0.7	-9/9.5	0/0	0/0	0/0	0/0	0/0	0/0
<b>Nursing, Hospi</b>										
Mean T	2.8	7.3	9.7	17.4	0	0.3	0	0	0	0
Mean C	1.4	0.7	13.4	17.3	0	0.7	0	0	6.4	0
IC95	-2.2/-0.2	-0.1/0	1.6/8.3	-5.3/4.7	0/0.3	0/0	0/0.1	0/0	-3/7.3	-3.6/12.7

Table 1.41: Average costs of other health care services for six months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>												
Mean T	0.4	0.8	0.2	14.2	34.3	1.9	3.9	0.4	0.5	43.3	59.6	
Mean C	0.3	1	0	6.7	31.6	3.7	4.7	0.6	0.5	57.6	27.8	
IC95	-0.7/1.1	-1.7/1.4	0/0.5	-5.3/19.6	-25.8/29.7	-2.6/-1	-1.7/0.2	-0.4/0	-0.3/0.2	-45.4/12	7.8/64.3	
<b>Nursing</b>												
Mean T	5.9	7.6	4.9	37.8	69.3	4.2	4.5	0.3	0.3	62.5	76.8	
Mean C	3.1	4.3	0.5	29.6	29.9	6.4	6.4	0.6	0.6	56.7	41.7	
IC95	-0.8/7.1	-1.3/7.8	0.6/9	-12.8/28.3	7.5/74.3	-3.4/-1.1	-3.1/-0.7	-0.6/-0.1	-0.5/0	-12.4/24	11.8/60.7	
<b>Hospi</b>												
Mean T	0	2.4	0	21.5	47.6	3.9	4.3	0.2	0.3	119.4	129.1	
Mean C	0	1.2	1.3	52.2	85.1	4.4	5.8	0.4	1.5	184.8	75.5	
IC95	0/0	-2.6/5	-5.4/0	-80/12.1	-125.7/46.1	-1.9/1.2	-3.4/0.3	-0.7/0.1	-2.7/-0.1	-172.1/20	-0.8/110.1	
<b>STI</b>												
Mean T	0	0	169.2	67.2	39.4	0.1	11.9	0	0	72.7	27.6	
Mean C	0	7.5	109.5	268.7	838.5	1	2.9	0	0.7	0	30	
IC95	0/0	-22.5/0	-155.9/236.2	-524.8/65.3	-1515.1/-212.3	-1.9/0.1	3.5/16.9	-0.1/0	-1.8/0	20.1/135.7	-50.2/41.4	
<b>Nursing, Hospi</b>												
Mean T	0.2	0.3	2.7	81.1	99.2	4.3	3.7	0.1	0.1	107.7	127.2	
Mean C	0	1.3	0	51.5	72.6	5.2	5.8	0.3	0.2	106.6	62.7	
IC95	0/0.6	-2.7/0.3	0/5.6	-17/78.9	-32.2/89.1	-2.5/0.6	-4.1/-0.3	-0.4/0	-0.3/0	-40.4/42.1	18.2/120.8	

Table 1.42: Average costs of other health care services for twelve months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Bef	Aft	Bef	Aft	
<b>No event</b>												
Mean T	1.4	3.3	0.1	16.2	73.8	2.3	4.3	0.4	0.5	34.6	53.8	
Mean C	0.3	2.1	0	7	44	2.4	4.5	0.4	0.5	57.1	32	
IC95	-0.7/4.1	-2.6/5.5	0/0.2	-0.1/18.3	-6.4/69.4	-0.7/0.5	-1.1/0.7	-0.1/0.2	-0.2/0.2	-45.2/-3.3	-1.3/51	
<b>Nursing</b>												
Mean T	13	18.5	3.7	42.8	132.1	4.5	4.9	0.3	0.3	50.5	67.3	
Mean C	3.4	6.5	0.2	32.8	57.8	4.5	5.9	0.4	0.5	63.5	44.7	
IC95	1.8/17.9	2.6/21.7	1.1/6.1	-10/30.7	28.2/119.4	-0.9/1	-2.1/0.2	-0.3/0.1	-0.4/0	-25.8/-0.9	4.7/40.2	
<b>Hospi</b>												
Mean T	0	5.5	0	20.7	76.1	3.4	4.5	0.2	0.3	64.3	100.9	
Mean C	0	1.2	0.7	37.2	126.7	2.7	5.4	0.5	1.4	100.8	57.1	
IC95	0/0	-1.2/12.6	-2/0	-55.4/9.8	-148.8/44.4	-0.5/1.8	-2.6/0.9	-0.9/0.2	-2.6/0	-90.9/9.7	5.3/90.9	
<b>STI</b>												
Mean T	0	0	108	92.1	91.2	1.6	16.3	0.4	0	52.2	48	
Mean C	0	13.2	146.8	265.4	912.3	0.8	2.3	0.1	0.5	10.3	44.4	
IC95	0/0	-39.5/0	-191.9/63	-568.1/114.2	-1320.7/-330	-0.6/2	5.3/23.5	-0.1/1	-1.3/0	-6.9/97.5	-74.5/100.6	
<b>Nursing, hospi</b>												
Mean T	1.1	0.9	1.4	65.5	202.1	4.5	3.6	0.1	0.1	60.8	105.1	
Mean C	0	3.5	0	51.7	114.4	3.6	5.3	0.2	0.2	64.2	56.6	
IC95	0/3.2	-7.1/1.5	0.2/2.7	-25.2/54.6	-12.5/176.8	-0.4/2.3	-3.5/0.2	-0.2/0.1	-0.2/0	-24/17.5	6/100.7	

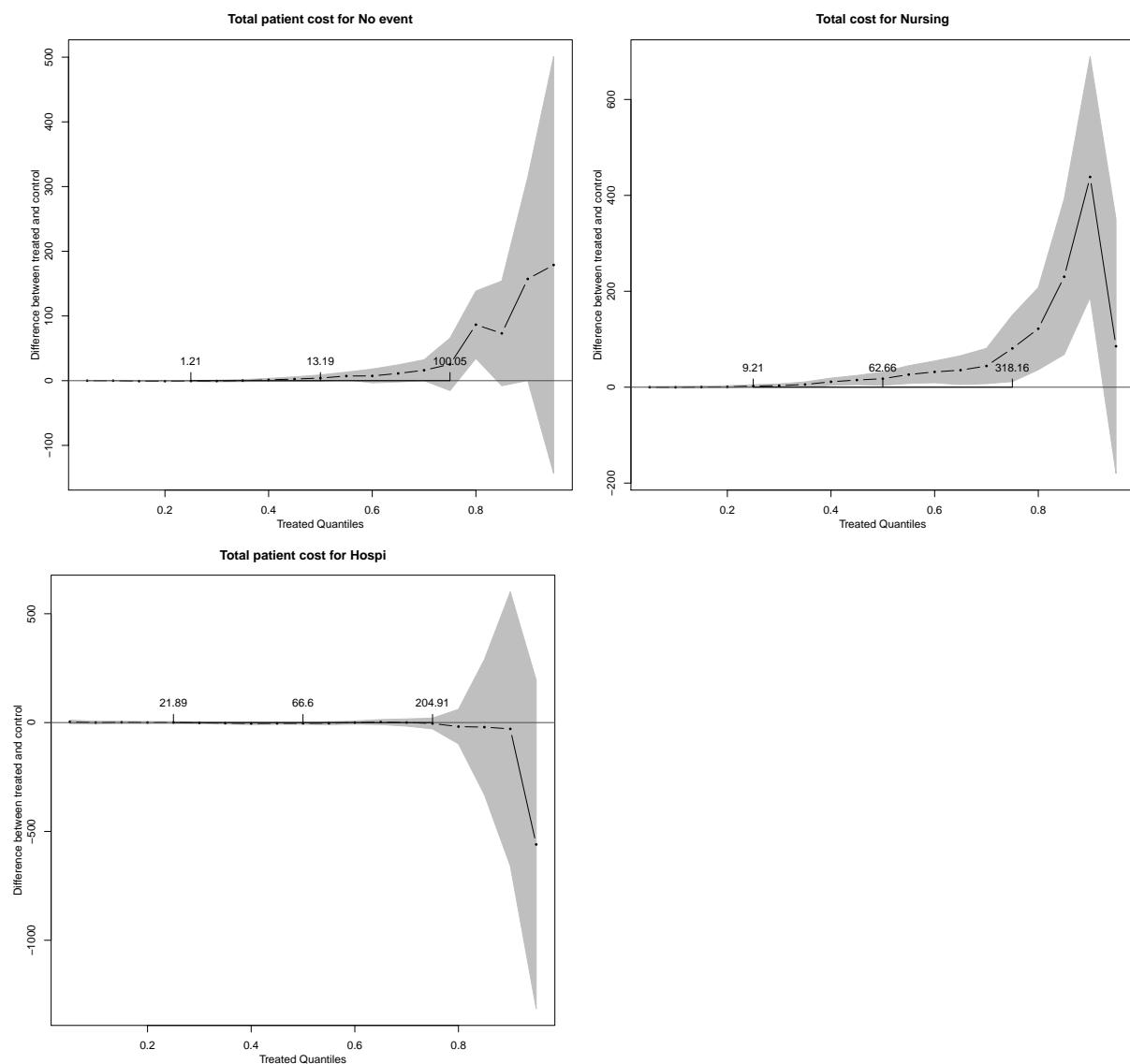


Figure 1.47: Graphs of the differences of the total cost for patients between treated and control, for six months, adjusted according to the proxy of the socio economic status and the number of days alive for the six months (per month, per patient)

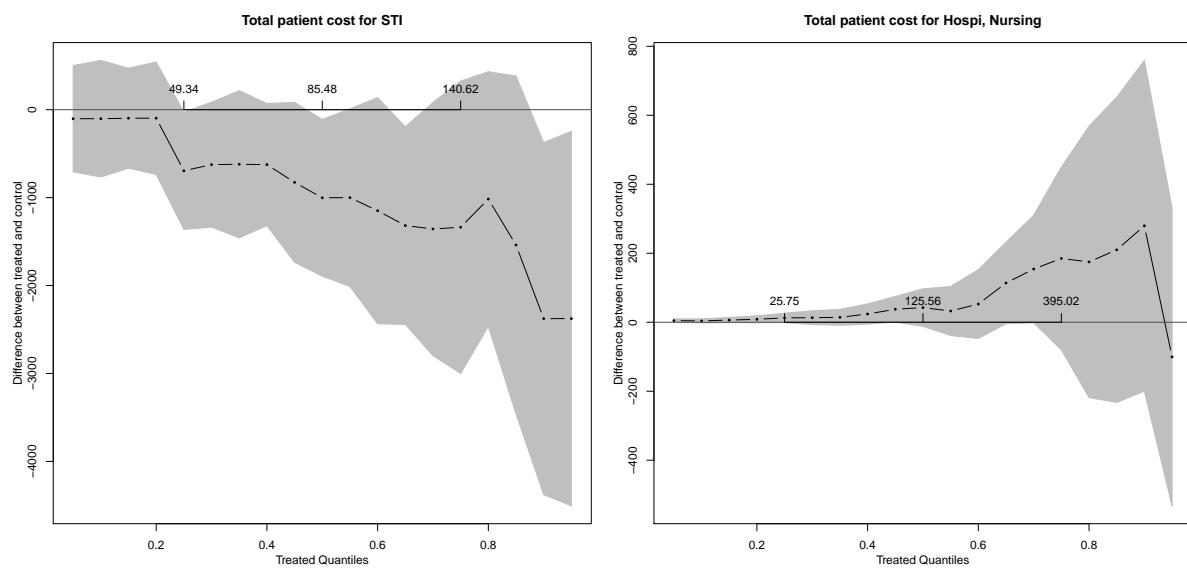


Figure 1.48: Graphs of the differences of the total cost for patients between treated and control, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

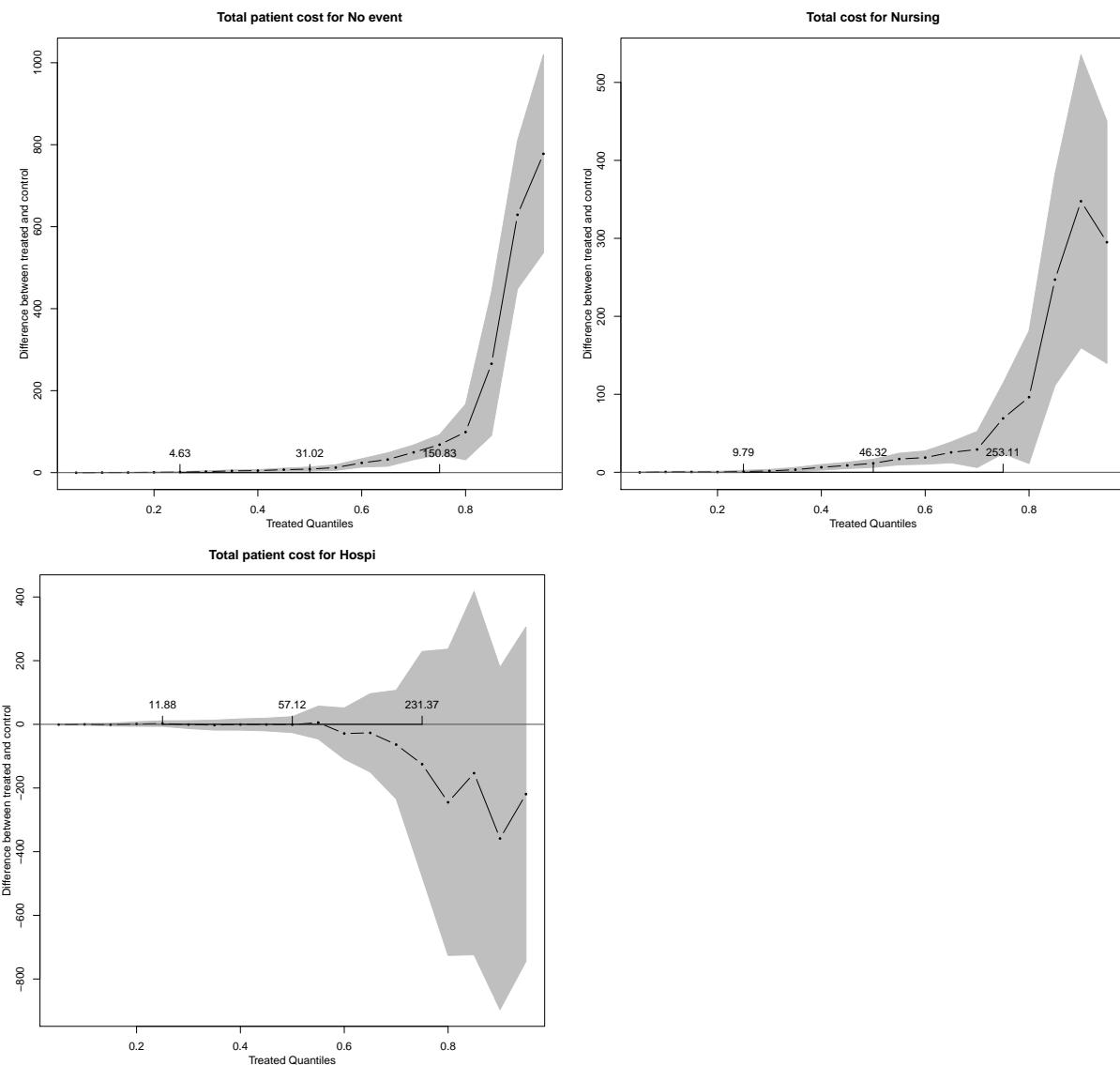


Figure 1.49: Graphs of the differences of the total cost for the patients between treated and control, for twelve months and adjusted according to the proxy of the socio economic status and the number of days alive for twelve months (per month per patient)

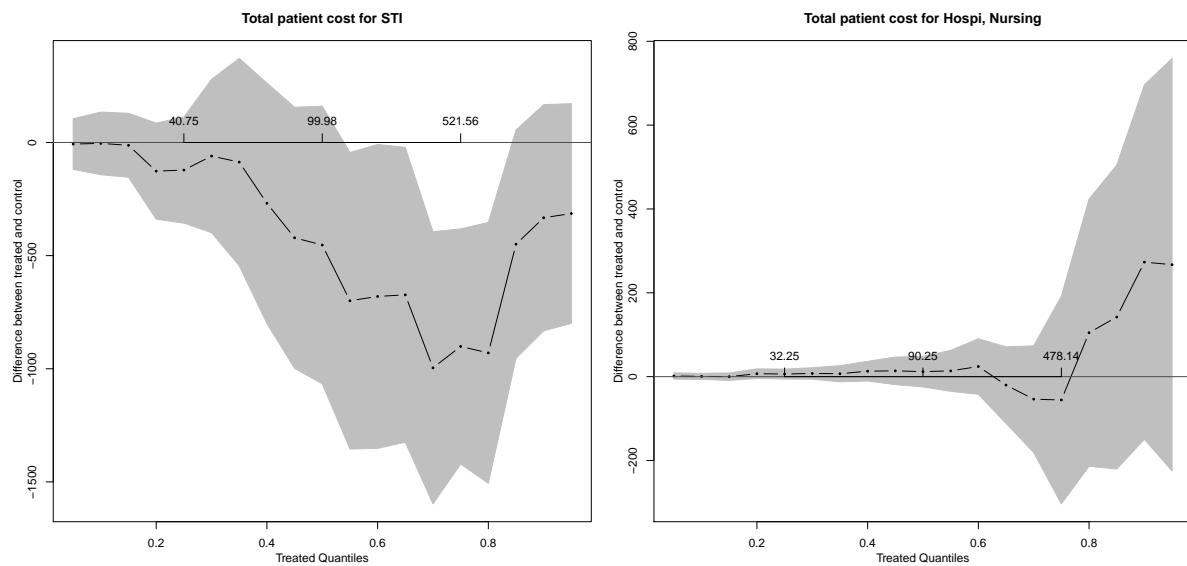


Figure 1.50: Graphs of the differences of the total cost for the patients between treated and control, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive for twelve months (per month per patient)

## 1.2.6 Cost differences for the stakeholders between treated and control

Table 1.43: Average cost differences between treated and control group for six months (adjusted according to the level of cost before intervention, socio economic proxy and deaths)

	NIHDI Home		NIHDI Home + hosp. + inter		All NIHDI + patients + regions	
	Diff mean adj.	IC95	Diff mean adj.	IC95	Diff mean adj.	IC95
No Event	125	68.1/210.2	946	547.7/1496	948	463.1/1503.7
Nursing	64	-18.8/155.5	835	469/1283.7	1081	606/1619.8
Hospi or STI or Nursing, Hospi	56	-25.1/156.6	781	278.7/1427.1	747	195.5/1470.2

Table 1.44: Average cost differences between treated and control group per month (adjusted according to the level of cost before intervention, socio economic proxy and deaths)

	NIHDI Home		NIHDI Home + hosp. + inter		All NIHDI + patients + regions	
	Diff mean adj.	IC95	Diff mean adj.	IC95	Diff mean adj.	IC95
No Event	128	61/220.8	681	409.5/1045.7	890	532.1/1388
Nursing	32	-42.3/125.5	777	477.1/1142.7	1196	779.7/1678.6
Hospi or STI or Nursing, Hospi	33	-51.4/129.4	671	309.8/1112	777	305.3/1306

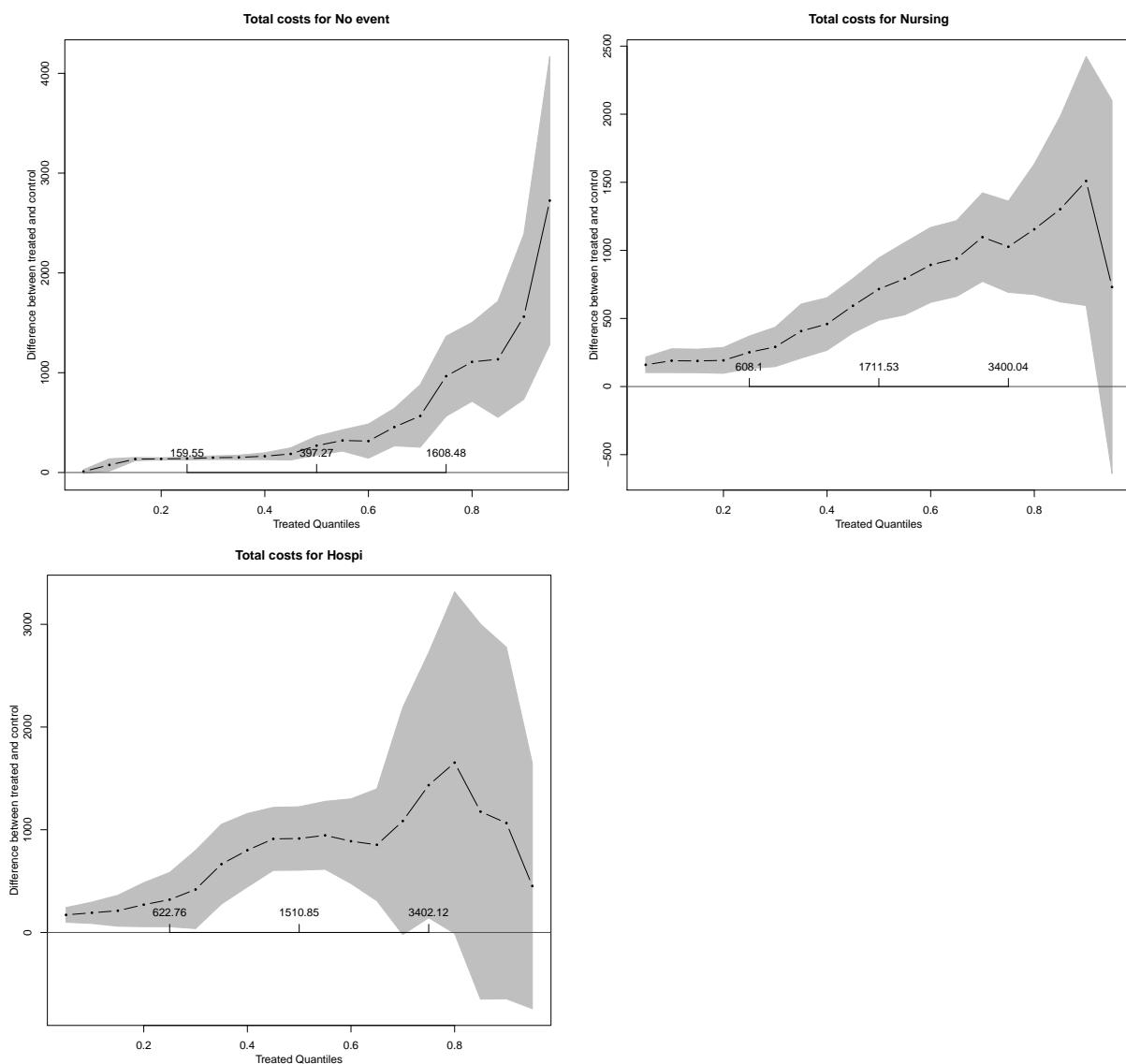


Figure 1.51: Graphs of the differences of the total cost for all stakeholders between treated and control, for six months and adjusted according to the proxy of the socio economic status and the number of days alive (per month, per patient)

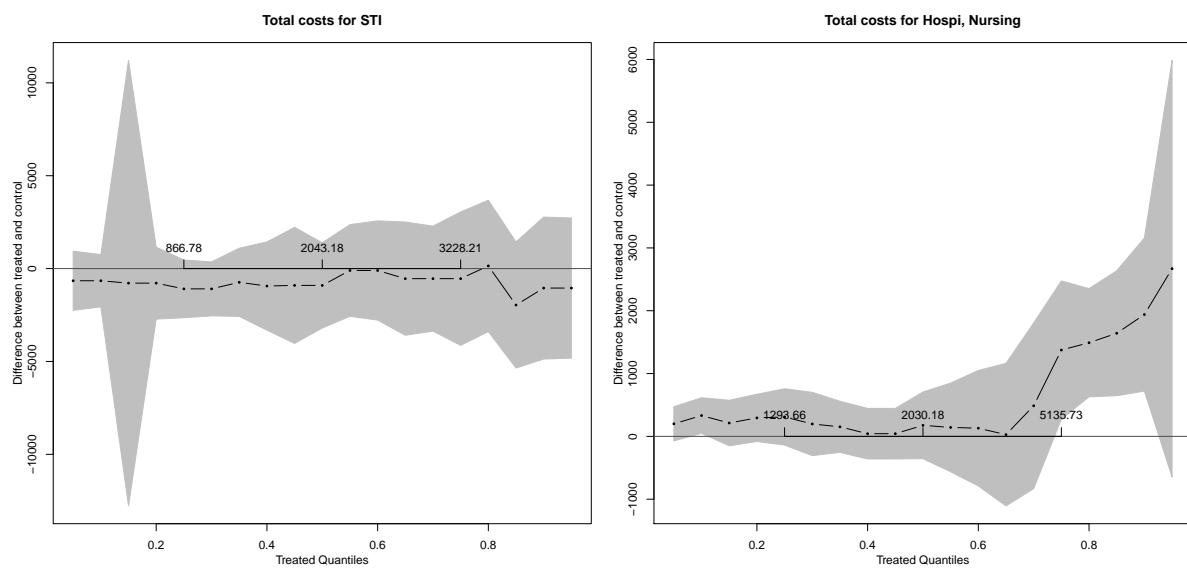


Figure 1.52: Graphs of the differences of the total cost for all stakeholders between treated and control, for six months and adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

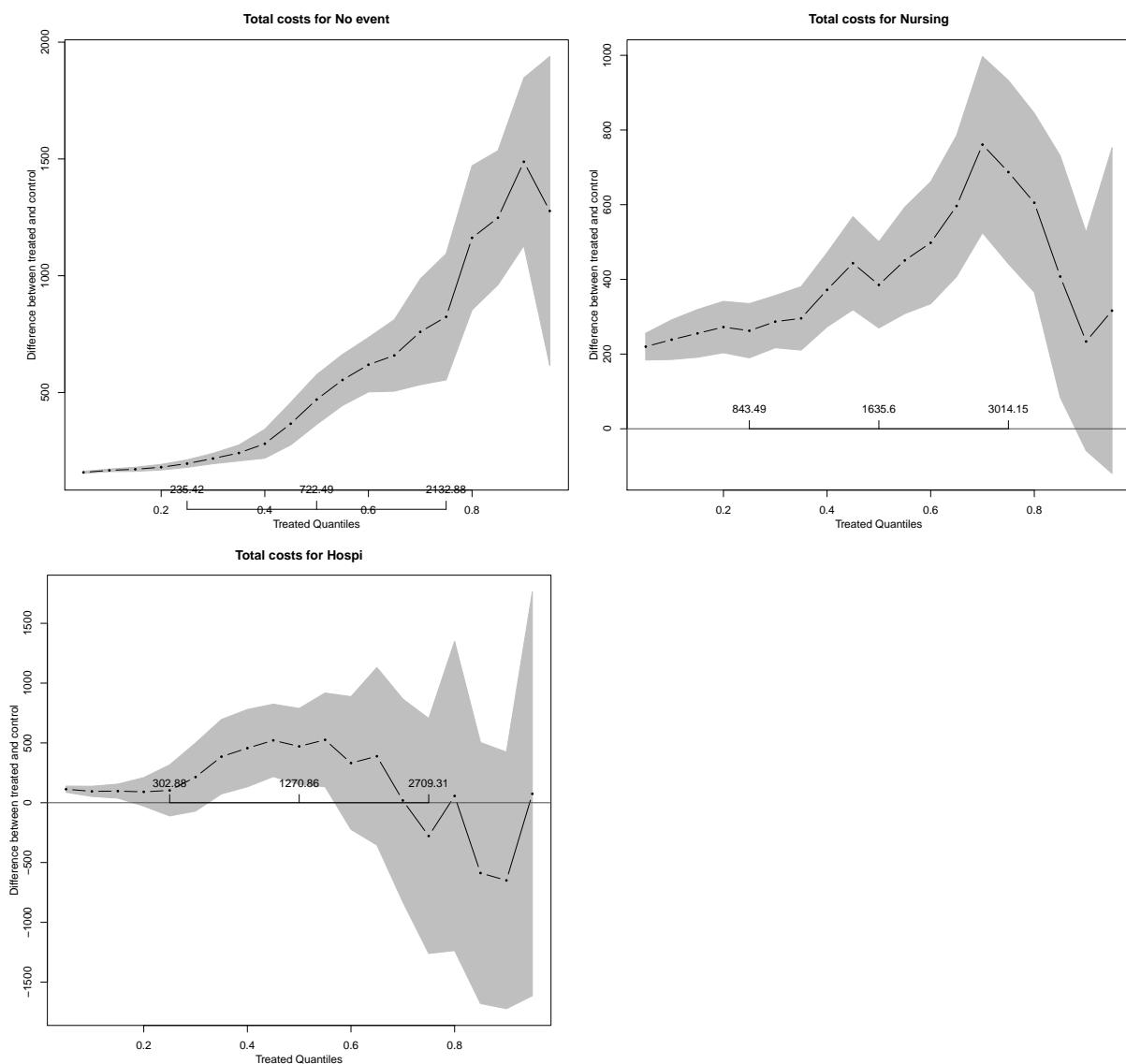


Figure 1.53: Graphs of the differences of the total cost for all stakeholders between treated and control, for twelve months and adjusted according to the proxy of the socio economic status and the number of days alive (per month, per patient)

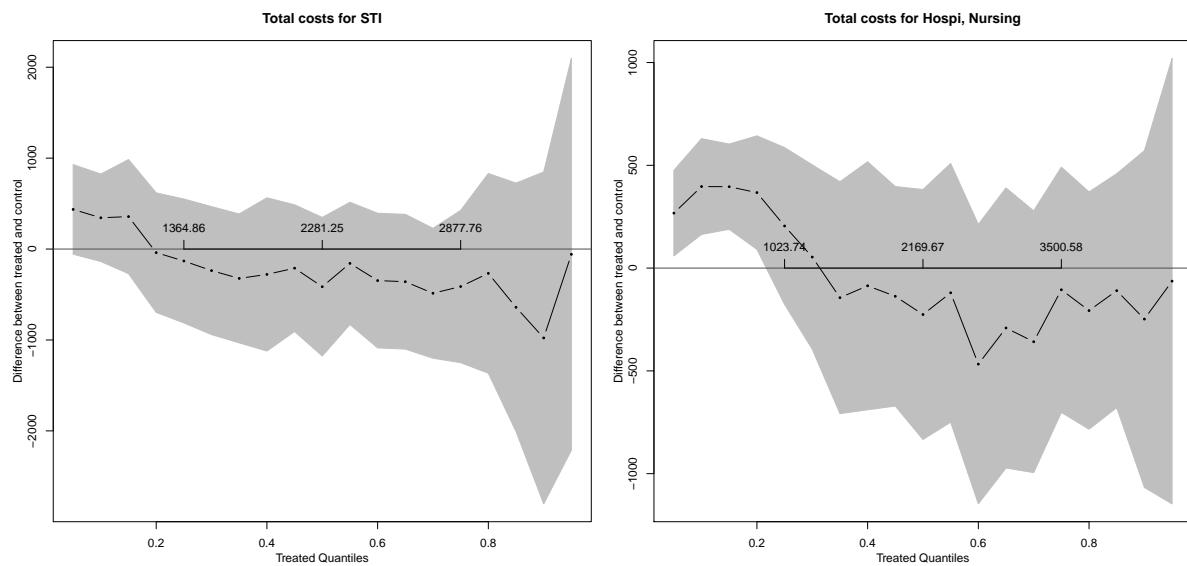


Figure 1.54: Graphs of the differences of the total cost for all stakeholders between treated and control, for twelve months and adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

### 1.2.7 Number of days at home and in residential care facilities for six months

Table 1.45: Average number of days for 6 months

	Temp. NH		Hosp.		Def. NH		Days home		Days alive
	Bef	Aft	Bef	Aft	Aft		Bef	Aft	Aft
<b>No Event</b>									
Mean T	0	1.8	10.7	10.9	4		149.1	141.7	179.8
Mean C	0	0.6	6.1	4.6	3.9		174.4	173.3	181.6
Diff. TC. IC95	0/0.1	0/2.7	1.3/8	3.2/9.8	-3.8/3.1		-32.7/-18.6	-40.2/-24	-3.6/-0.2
<b>Nursing</b>									
Mean T	0.6	4.6	13.8	15.5	8.9		163	143.6	175.6
Mean C	0.1	3.4	12	8.4	3.8		169.6	165	180
Diff. TC. IC95	0.1/1.2	-1.4/3.7	-1.7/5.5	3.4/10.7	1/9.7		-11.1/-2.1	-29.6/-13.5	-8/-1.1
<b>Hospi</b>									
Mean T	0	2.5	18.1	16.2	6.1		163.6	149.7	174.2
Mean C	0.2	6.3	15.9	10.5	8.4		161.7	154.9	180
Diff. TC. IC95	-0.5/0	-9.6/1.2	-2.3/6.3	-0.2/11	-11.4/6.6		-4.6/9	-21.5/11.5	-13.3/1.3
<b>STI</b>									
Mean T	21.9	8.7	25.8	11.7	5		134.6	155.4	180.8
Mean C	8.8	30.3	0	8.8	97.8		88.4	98.6	172.2
Diff. TC. IC95	-4.4/30.4	-56.8/12.9	8.1/46.8	-12.2/18.1	-190.8/-17.2		-34.2/121.5	17.1/103.6	-0.5/26.4
<b>Nursing, Hospi</b>									
Mean T	0.4	9.7	23.4	25.4	12.6		157.7	125.5	171.9
Mean C	0	6.6	24.2	20	9.3		157.6	145.7	180.9
Diff. TC. IC95	-5.4/31.1	-59.9/10.5	10/45.5	-12.4/18.1	-192.6/-23.1		-27.3/114.9	14.1/103.9	-0.5/26.4

Table 1.46: Average number of days for 12 months

	Temp. NH		Hosp.		Def. NH		Days home		Days alive
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Aft	Aft
<b>No Event</b>									
Mean T	0	3.7	17.7	18.6	17.6	302.7	272.5	355.1	
Mean C	0	1.4	11.4	8.8	9.5	350.3	342.2	360.6	
Diff. TC. IC95	0/0.1	0.4/4.3	1.1/12.3	5.2/14.5	-0.6/16.8	-61.7/-34.9	-87.1/-53.9	-10.7/-0.4	
<b>Nursing</b>									
Mean T	0.9	8.4	23.6	26	33.4	331.5	262.3	336.4	
Mean C	0.1	6.7	25.4	16.5	14.5	338.6	314.6	351.4	
Diff. TC. IC95	0.3/1.7	-2.6/5.6	-7.4/4.1	3.8/15.7	7.2/31.5	-15.3/1.2	-69.9/-33.1	-25.3/-5.6	
<b>Hospi</b>									
Mean T	0	4.4	20.5	23.5	19.6	343.8	298.3	345.5	
Mean C	0.2	7.7	17.3	15.4	24.5	335.8	301.8	353.5	
Diff. TC. IC95	-0.5/0	-12.4/3.4	-2.3/9.1	0.8/15.1	-25.3/18	-5.2/24.3	-37.6/30.5	-27/9.8	
<b>STI</b>									
Mean T	27.9	17.6	47	17.8	23.4	289.1	291.1	348.8	
Mean C	32.2	49.3	5.4	11.5	187.9	166.1	149.5	324.7	
Diff. TC. IC95	-32.6/16.7	-96.6/17.7	10.9/86.3	-14.2/29.8	-306/-39.1	-21.8/256.4	52.6/236	-30.4/93.7	
<b>Nursing, Hospi</b>									
Mean T	0.4	14.2	26.1	36.7	50.1	337.7	234.3	333.7	
Mean C	0	11.5	32.4	30.9	27	331.6	277.1	347.1	
Diff. TC. IC95	-32.3/17.9	-92/20.4	12.8/85.9	-15.9/30	-303.6/-50.6	-5.2/251.4	51.4/236.8	-33.5/87.5	

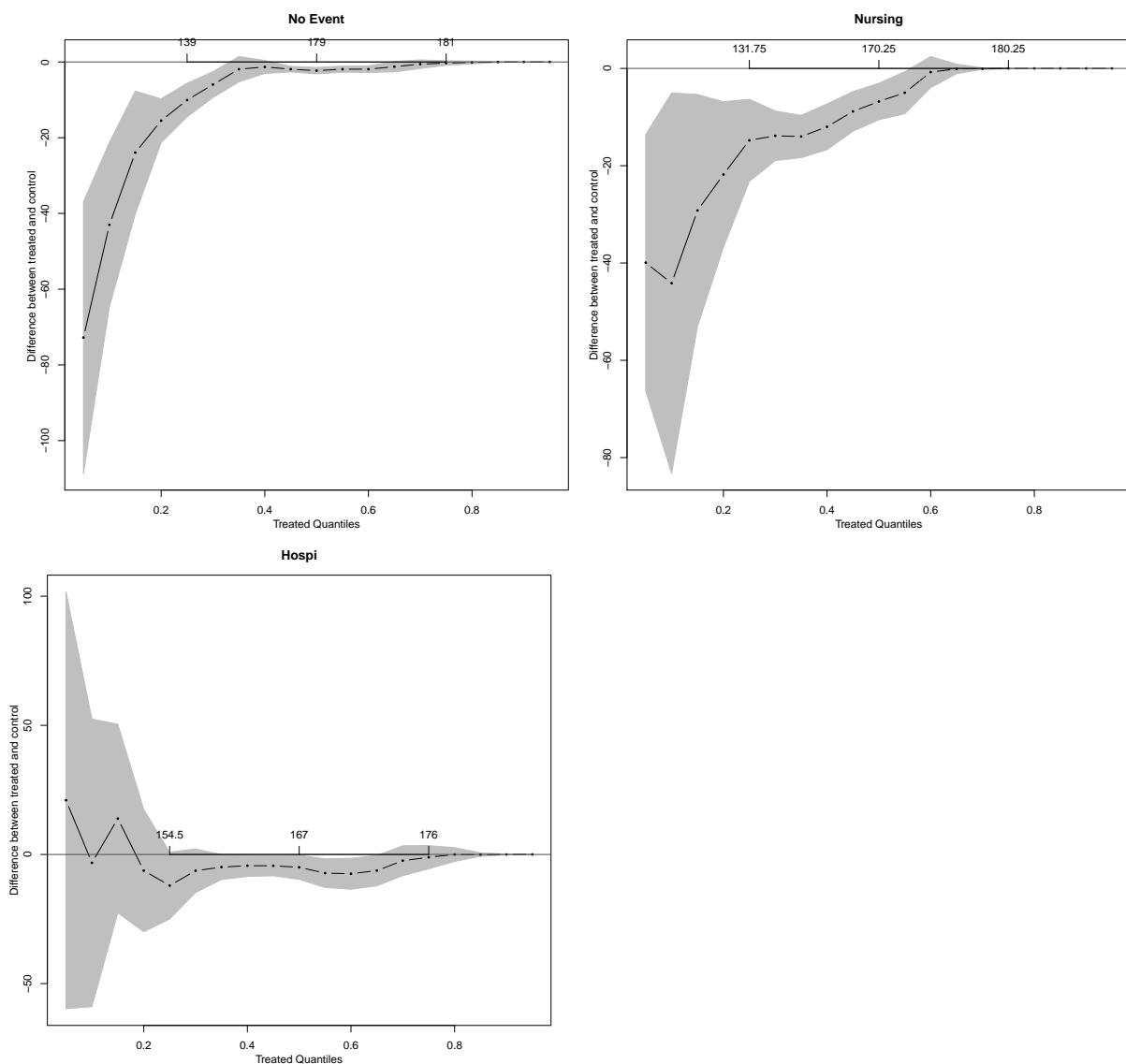


Figure 1.55: Graphs of the differences of days spent at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the number of days at home before intervention

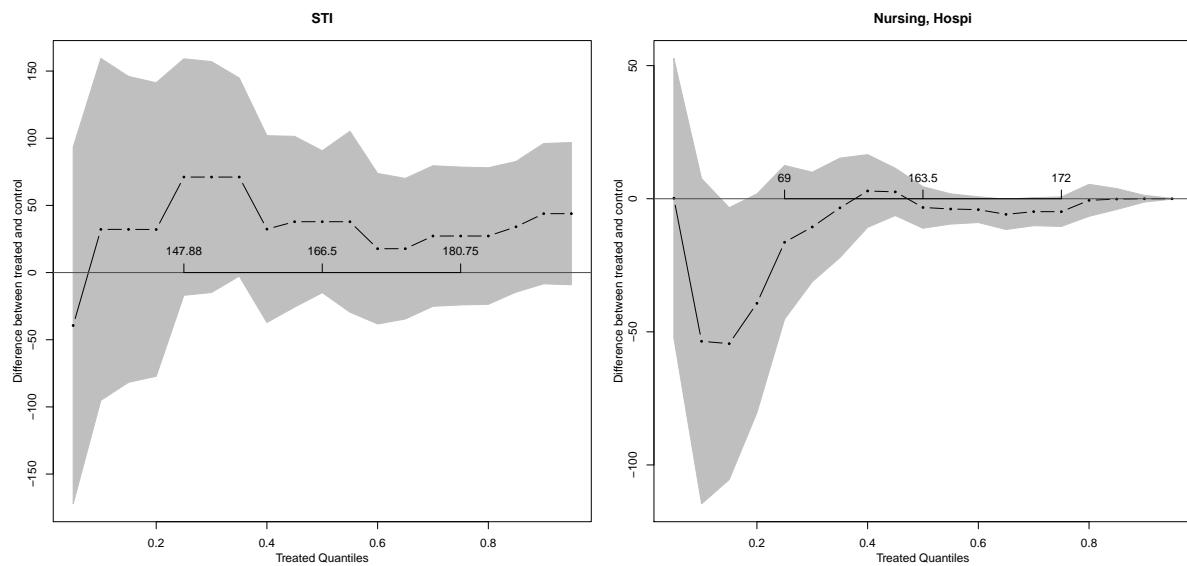


Figure 1.56: Graphs of the differences of days spent at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the number of days at home before intervention

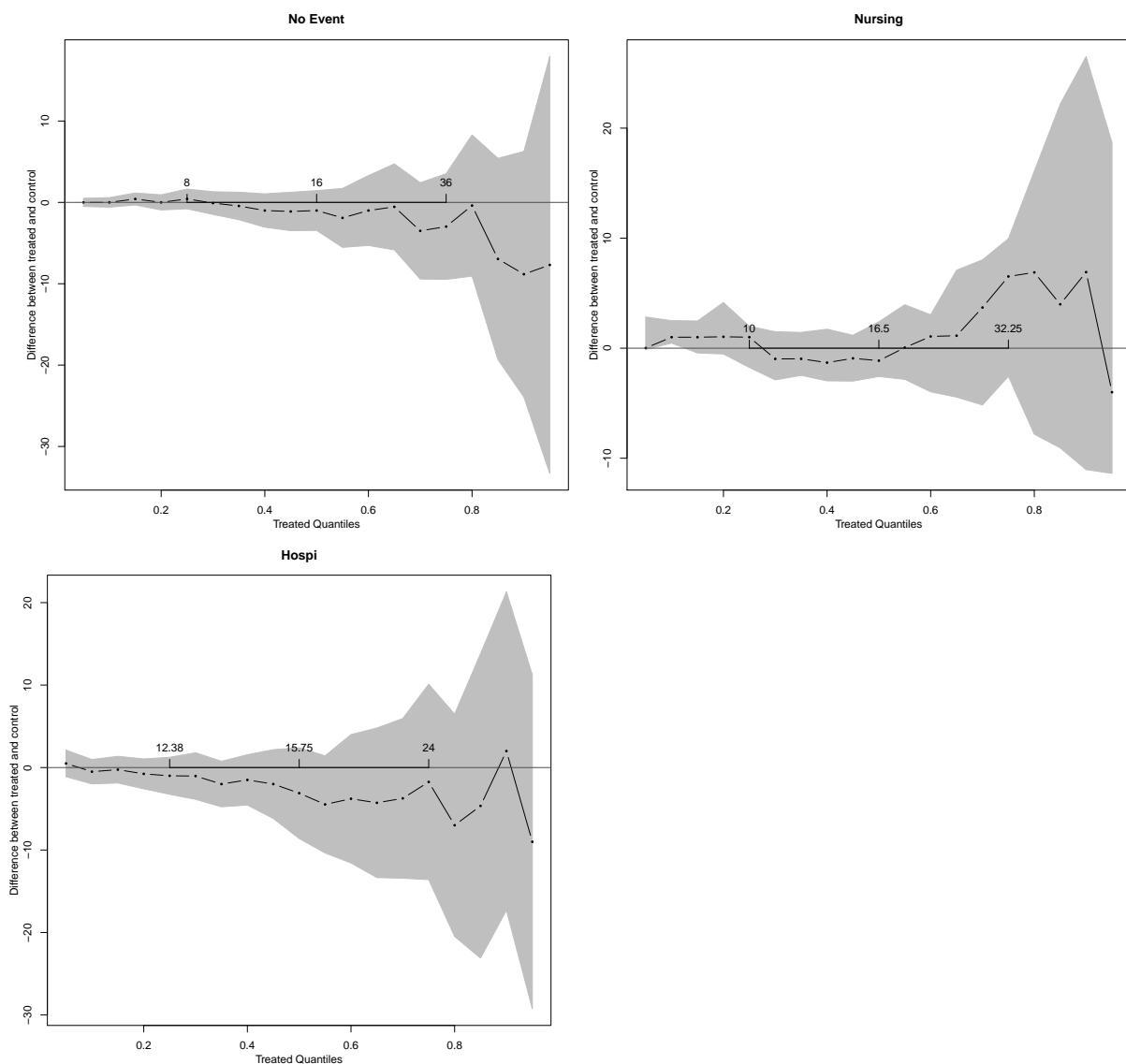


Figure 1.57: Graphs of the differences of days spent in hospital between treated and control, for six months, only for people with at least one hospitalisation, adjusted according to the proxy of the socio economic status and the number of days alive for six months

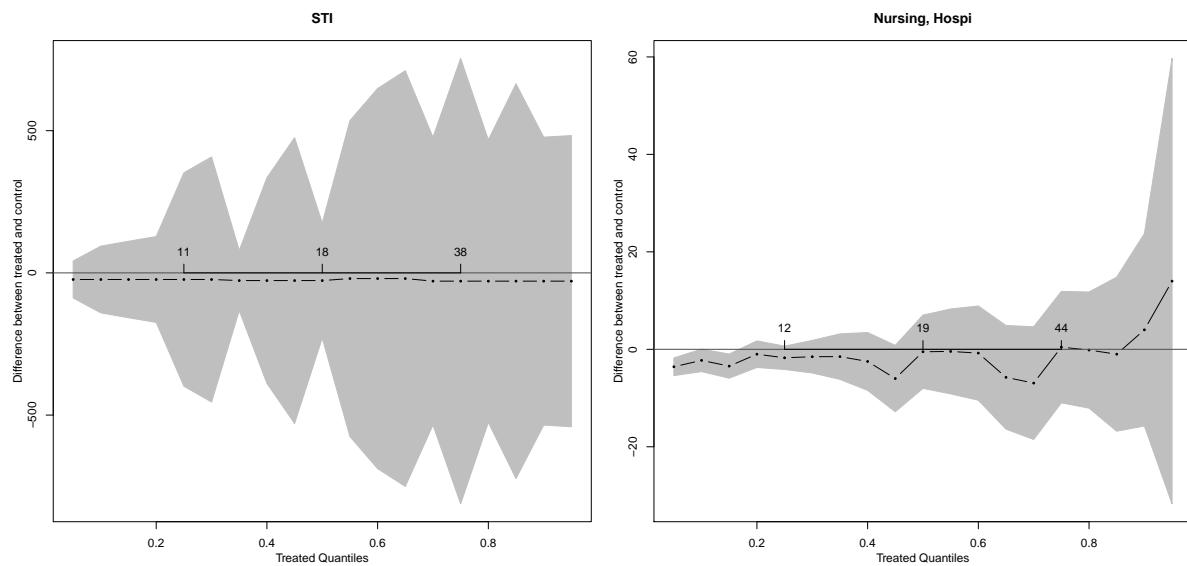


Figure 1.58: Graphs of the differences of days spent in hospital between treated and control, for six months, only for people with at least one hospitalisation, adjusted according to the proxy of the socio economic status and the number of days alive for six months

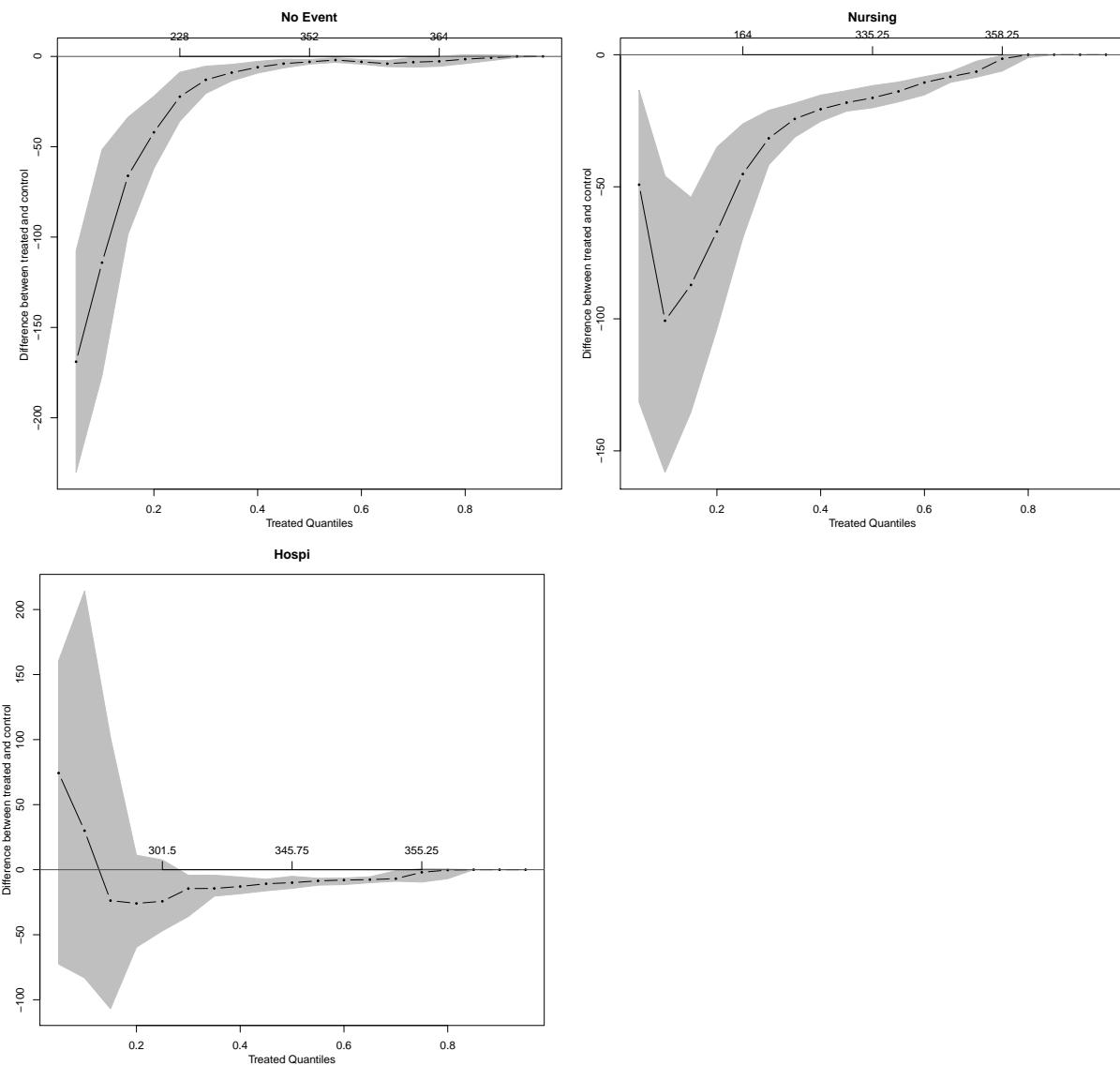


Figure 1.59: Graphs of the differences of days spent at home between treated and control, for twelve months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the number of days at home before intervention

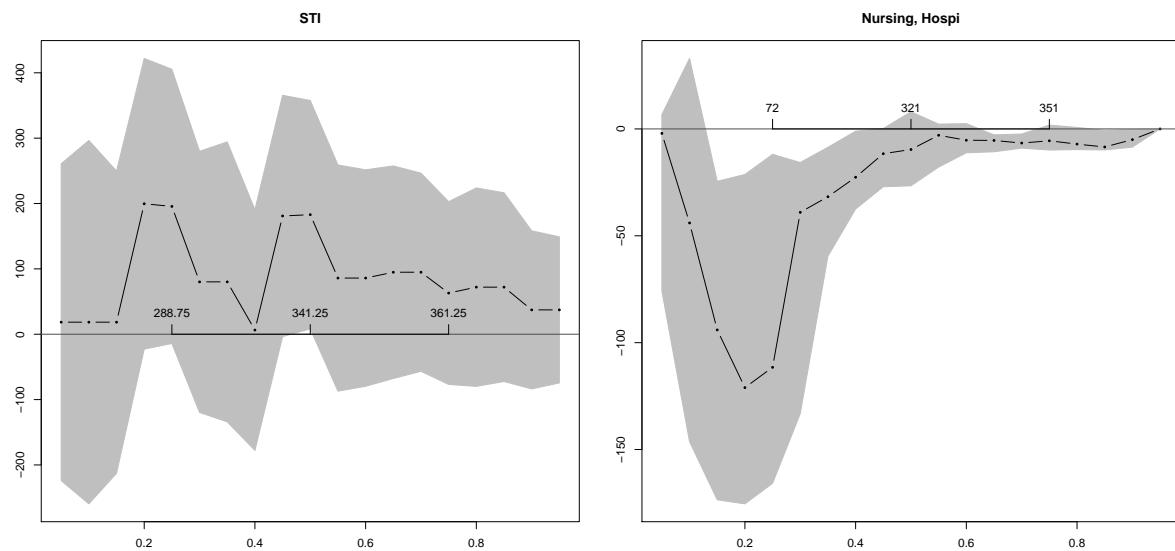


Figure 1.60: Graphs of the differences of days spent at home between treated and control, for twelve months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the number of days at home before intervention

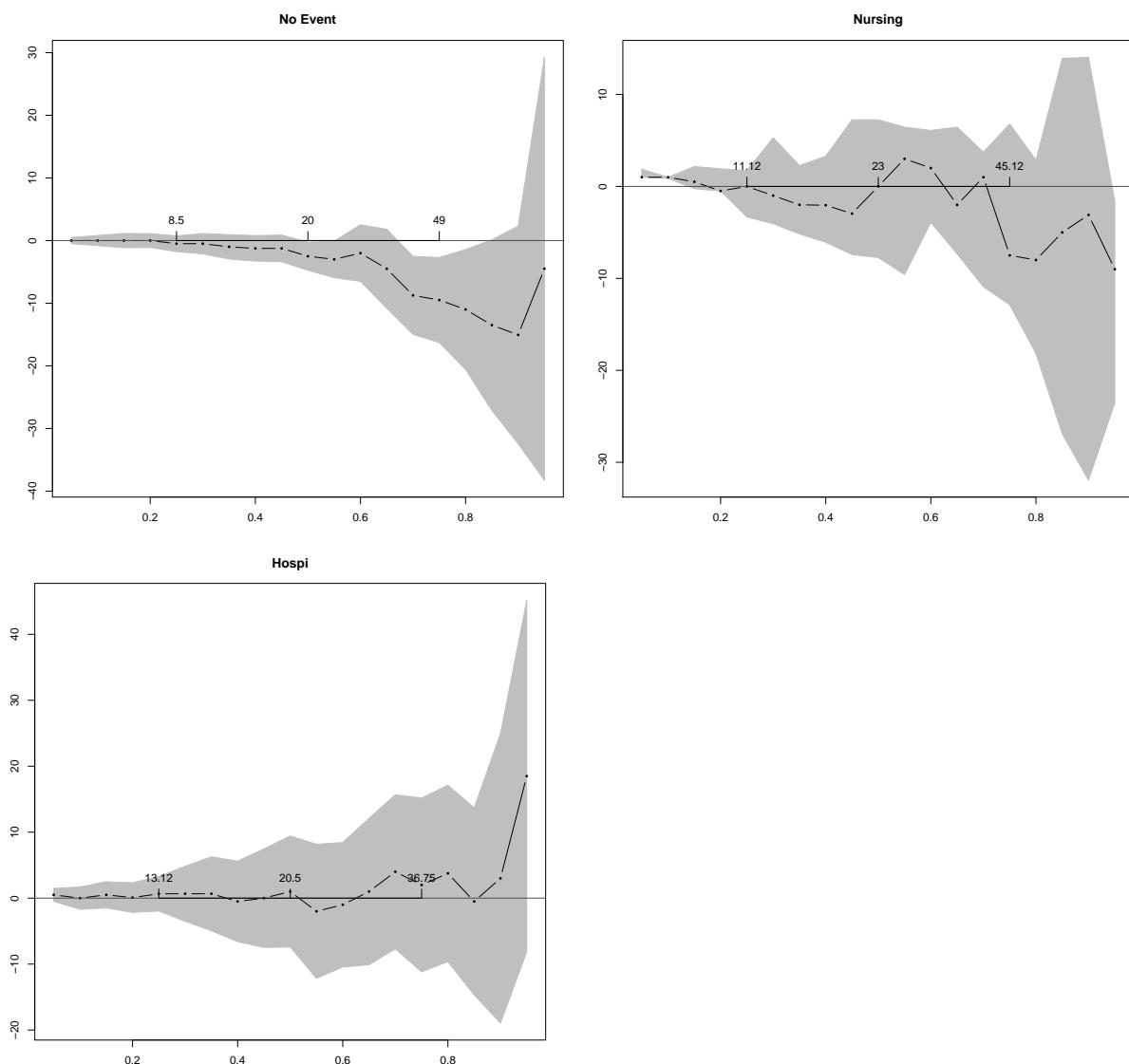


Figure 1.61: Graphs of the differences of days spent in hospital between treated and control for twelve months, only for people with at least one hospitalisation and adjusted according to the proxy of the socio economic status and the number of days alive for twelve months

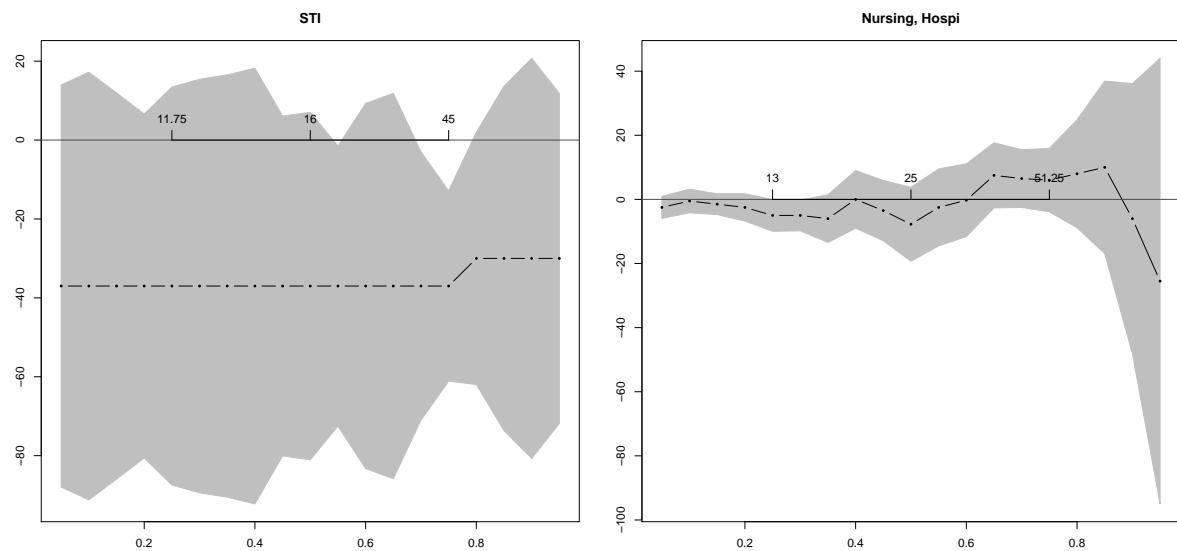


Figure 1.62: Graphs of the differences of days spent in hospital between treated and control for twelve months, only for people with at least one hospitalisation and adjusted according to the proxy of the socio economic status and the number of days alive for twelve months

# Chapter 2

## F1P0I0

### 2.1 Comparison with the BelRAI control group

#### 2.1.1 Description of disability groups

Table 2.1: Proportion above the cut off of BelRAI scales depend on the subgroups of disability for the project F1P0I0

	low limit.	IADL, (cogn.)	func.	func., cogn.	func., cogn., behav.
IADL	1.69	93.42	88.94	98.48	91.25
ADL	5.65	0.00	99.04	81.75	68.75
CPS	8.47	14.14	0.00	95.44	87.50
Behav.	8.19	11.18	7.21	28.52	100.00
DRS	24.29	25.66	25.00	33.46	56.25
N	354.00	304.00	416.00	263.00	80.00

## 2.1.2 Description of socio-demographic variables

Table 2.2: Sociodemographic characteristics for the treated and the control group depend on the health profiles

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	T	C	T	C	T	C	T	C	T	C
<b>Age</b>										
Median[IQR]	80[76-84]	81[76-86]	82[77-86]	82[78-87]	82[77-86]	83[78-87]	82[77-87]	82[78-87]	80[75-85]	82[70-87]
<b>Gender</b>										
% Men	35.31	23.73	26.32	27.96	31.01	25.72	37.26	34.98	38.75	42.5
% Women	64.69	76.27	73.68	72.04	68.99	74.28	62.74	65.02	61.25	57.5
<b>ICG</b>										
% No ICG	24.86	24.86	10.53	10.2	9.86	9.62	0.38	0	1.25	0
% No cohabitant	55.93	55.93	60.86	61.51	54.09	53.85	44.49	45.25	38.75	38.75
% Cohabitant	19.21	19.21	28.62	28.29	36.06	36.54	55.13	54.75	60	61.25
<b>Region</b>										
Bruxelles	0	0	0	0	0	0	0	0	1.25	0
Flandre	61.02	50.85	56.91	46.05	84.62	86.06	80.99	76.81	65	36.25
Wallonie	38.98	49.15	43.09	53.95	15.38	13.94	19.01	23.19	33.75	63.75
<b>Median income</b>										
Low	4.8	25.71	6.25	33.22	9.86	11.78	11.03	7.98	7.5	45
Medium	83.9	47.74	81.58	47.37	65.14	53.12	69.58	47.91	70	32.5
High	11.3	26.55	12.17	19.41	25	35.1	19.39	44.11	22.5	22.5
<b>N</b>										
Unique value	354	67	304	99	416	180	263	85	80	22



### 2.1.3 Clinical outcome

Table 2.3: BelRai outcomes

	ADL		IADL		Falls	
	Bef	Aft	Bef	Aft	Bef	Aft
<b>low limit.</b>						
% cut off C	9.63	13.88	6.23	18.75	18.6	16.52
% cut off T	5.67	7.65	1.7	12.22	27.03	20.12
IC95	0.56[0.3/0.97]	0.55[0.26/1]	0.26[0.05/0.6]	0.52[0.31/0.85]	1.62[1.15/2.42]	1.13[0.75/1.75]
% NA	0	0	0	0.28	2.55	5.67
<b>IADL, (cogn.)</b>						
% cut off C	5.59	13.62	74.34	76.17	27.46	17.63
% cut off T	0	10.96	93.42	79.19	44.01	26.62
IC95	0[0/0]	0.85[0.5/1.36]	4.9[2.89/9]	0.82[0.5/1.39]	2.08[1.47/2.93]	1.33[0.87/2.03]
% NA	0	0.99	0	1.97	6.58	8.55
<b>func.</b>						
% cut off C	95.19	90.98	86.54	86.92	27.46	23.53
% cut off T	99.04	85.37	88.94	86.2	43.58	30.69
IC95	5.2[2.13/26.06]	0.57[0.36/0.84]	1.25[0.8/1.92]	0.52[0.31/0.88]	2.04[1.54/2.7]	1.09[0.76/1.58]
% NA	0	1.44	0	0.72	4.57	6.01
<b>func., cogn.</b>						
% cut off C	85.93	88.54	99.24	100	30.99	29.46
% cut off T	81.75	81.82	98.48	98.06	42.98	29.05
IC95	0.73[0.45/1.19]	0.29[0.08/0.69]	-[-/-]	-[-/-]	1.68[1.16/2.5]	0.76[0.48/1.21]
% NA	0	3.8	0	1.9	7.98	8.37
<b>func., cogn., behav.</b>						
% cut off C	70	68.83	100	100	25.64	34.78
% cut off T	68.75	71.43	91.25	92.31	39.74	33.33
IC95	0.94[0.47/1.91]	0.56[0.12/1.94]	-[-/-]	-[-/-]	1.91[0.95/3.97]	0.96[0.37/1.96]
% NA	0	3.75	0	2.5	2.5	13.75

Table 2.4: Zarit outcome

		Non Cohab		Cohab	
		Bef	Aft	Bef	Aft
<b>low limit.</b>					
% cut off C	7.06	4.17	0	20.51	
% cut off T	27.06	33.33	36.11	20.51	
IC95	4.88[2.18/21.99]	7.81[1.82/172016854.18]	177685139.02[100608509.77/719608795.42]	50725237.62[0/1.41364323152088e+38]	
% NA	56.96	63.54	47.06	42.65	
<b>IADL, (cogn.)</b>					
% cut off C	17.92	34.07	30	24.53	
% cut off T	39.42	38.2	40.98	37.04	
IC95	2.98[1.62/5.97]	0.48[0.04/1.67]	1.62[0.75/3.51]	1.55[0.48/133.61]	
% NA	43.55	51.61	30.06	38.15	
<b>func.</b>					
% cut off C	32.43	31.15	40	28.57	
% cut off T	36.49	36.89	43.12	41.24	
IC95	1.2[0.71/2]	0.7[0.27/1.74]	1.14[0.66/1.95]	1.59[0.63/4.02]	
% NA	34.08	45.66	27.48	35.43	
<b>func., cogn.</b>					
% cut off C	47.19	37.88	46.23	52.75	
% cut off T	47.73	42.42	60.75	51.65	
IC95	1.02[0.54/1.87]	1.33[0.35/4.94]	1.8[1.07/3.21]	0.63[0.24/1.54]	
% NA	25	44.07	26.3	37.02	
<b>func., cogn., behav.</b>					
% cut off C	55.56	50	68.18	70.37	
% cut off T	72.22	70	67.44	66.67	
IC95	2.08[0.43/11]	-[-/-]	0.97[0.38/2.71]	3.52[0/5.45748993074226e+35]	
% NA	41.94	67.74	10.31	44.33	

Table 2.5: DRS outcomes

	Bef	Aft
<b>low limit.</b>		
% cut off C	17.56	19.43
% cut off T	24.36	23.14
IC95	1.51[1.03/2.21]	0.81[0.43/1.38]
% NA	0	0.85
<b>IADL, (cogn.)</b>		
% cut off C	29.93	23.51
% cut off T	25.66	23.18
IC95	0.81[0.57/1.15]	0.93[0.55/1.55]
% NA	0	0.66
<b>func.</b>		
% cut off C	19.95	22.55
% cut off T	25	22.55
IC95	1.34[0.96/1.89]	0.66[0.42/1]
% NA	0	1.92
<b>func., cogn.</b>		
% cut off C	37.64	40.47
% cut off T	33.46	26.85
IC95	0.83[0.58/1.2]	0.28[0.12/0.53]
% NA	0	2.28
<b>func., cogn., behav.</b>		
% cut off C	75	72.37
% cut off T	56.25	53.95
IC95	0.43[0.2/0.84]	0.59[0.24/1.56]
% NA	0	5

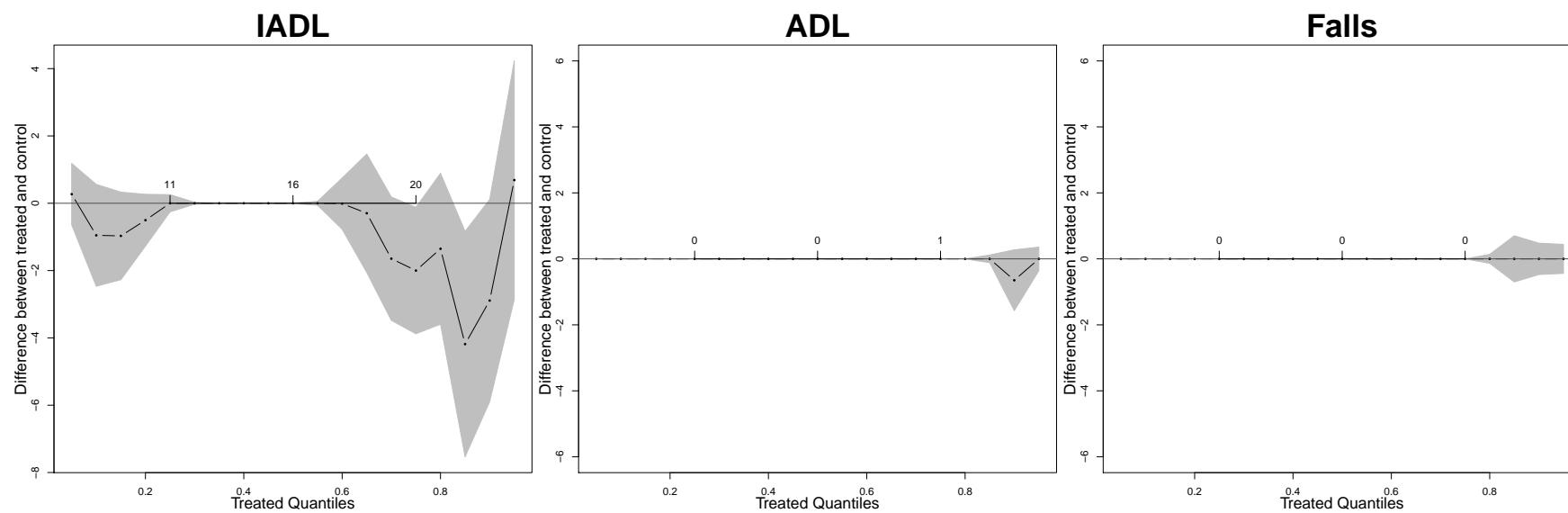


Figure 2.1: Regression quantile of functional clinical outcome (Low limitation)

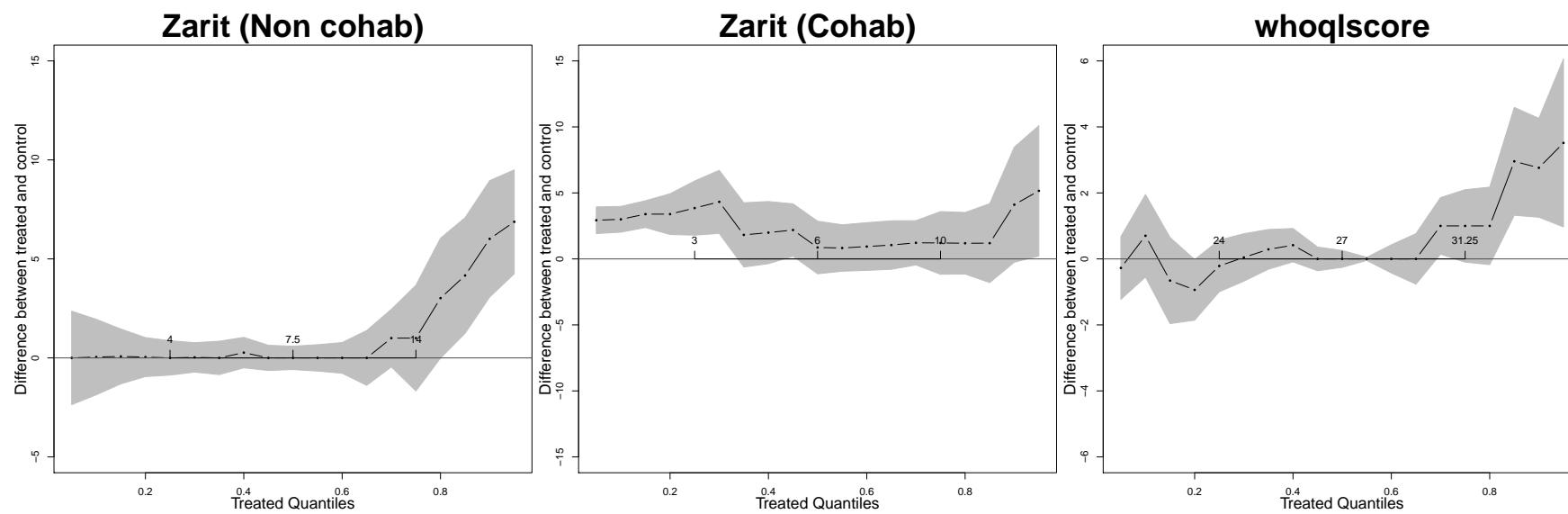


Figure 2.2: Regression quantile of burden and quality of life clinical outcome (Low limitation)

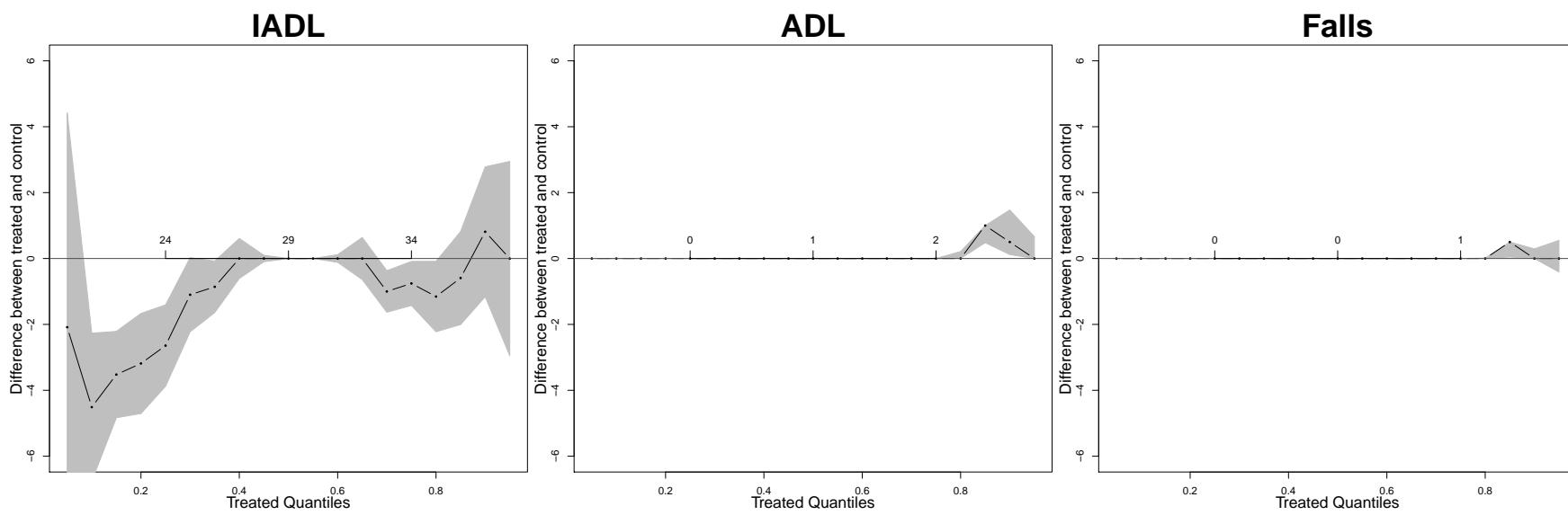


Figure 2.3: Regression quantile of functional clinical outcome (IADL (cogn.)

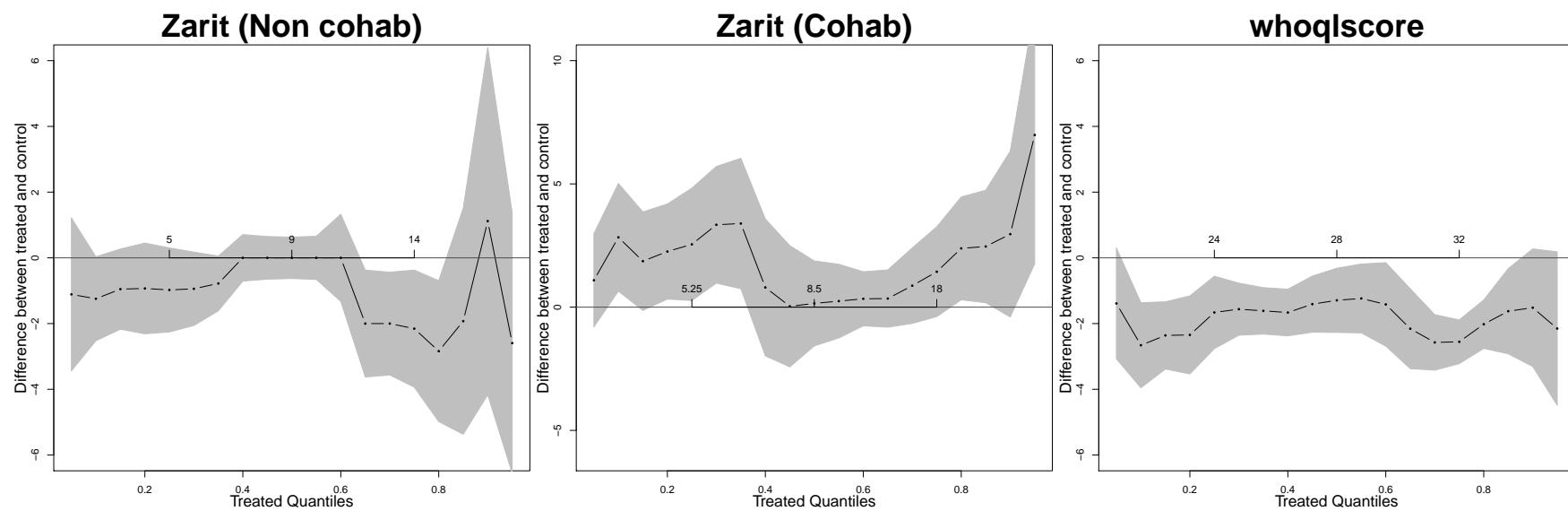


Figure 2.4: Regression quantile of burden and quality of life clinical outcome (IADL (cogn.)

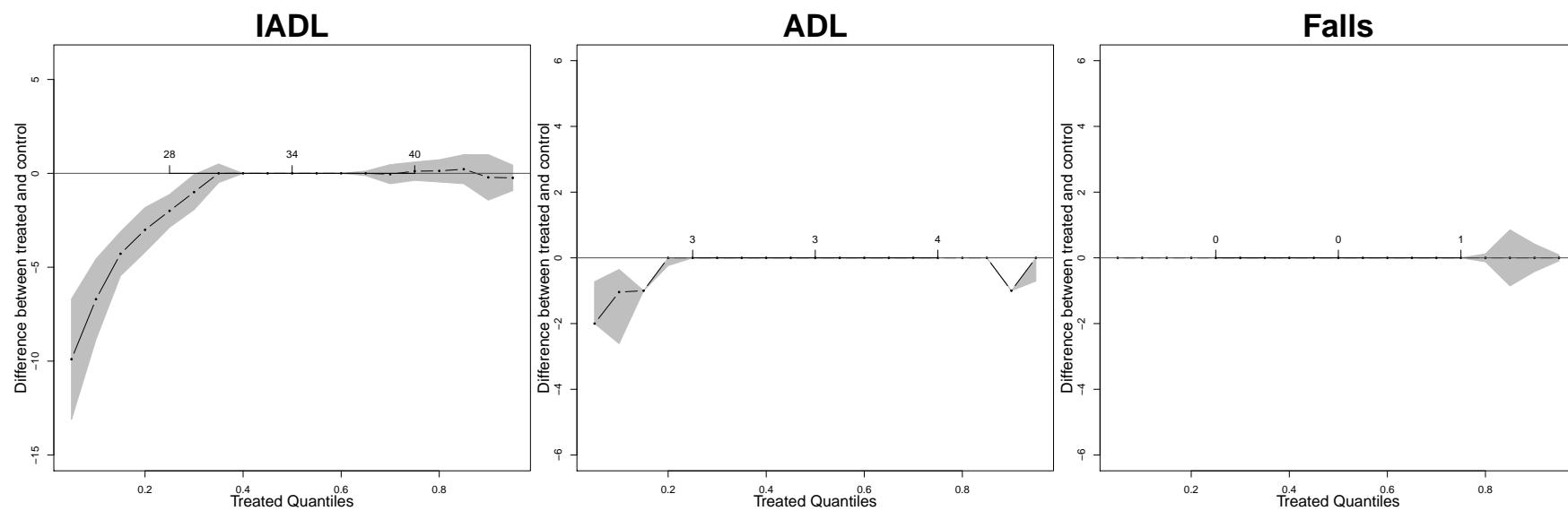


Figure 2.5: Regression quantile of functional clinical outcome (Func.)

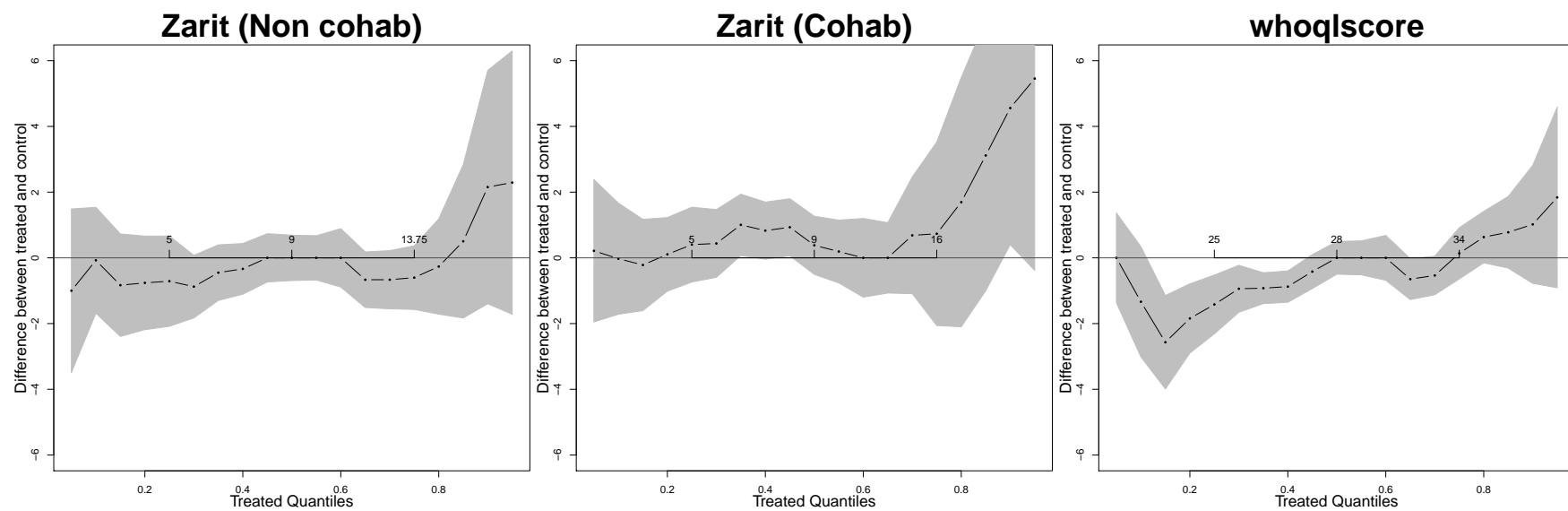


Figure 2.6: Regression quantile of burden and quality of life clinical outcome (Func.)

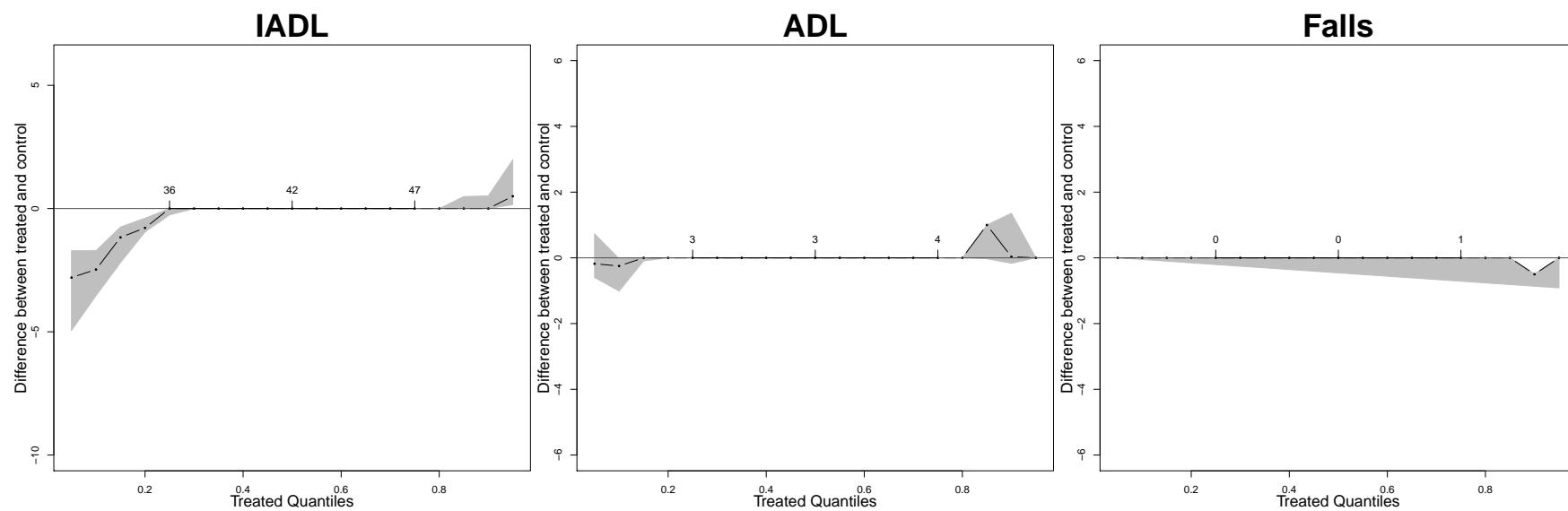


Figure 2.7: Regression quantile of functional clinical outcome (Func., cogn.)

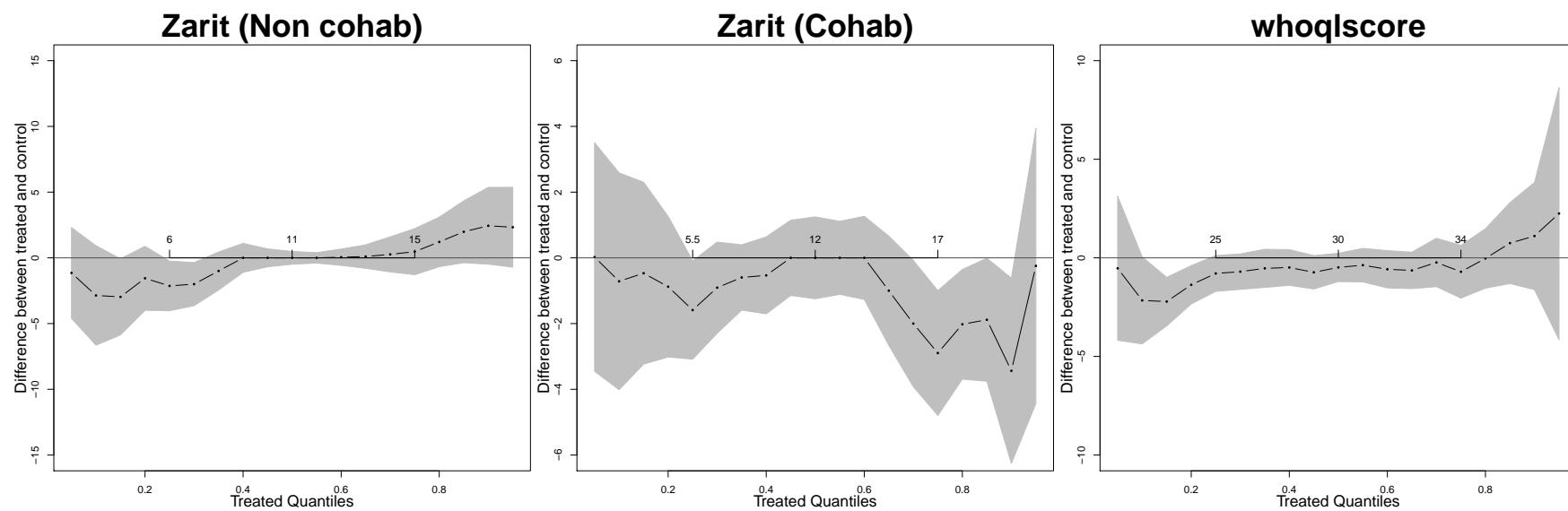


Figure 2.8: Regression quantile of burden and quality of life clinical outcome (Func., cogn.)

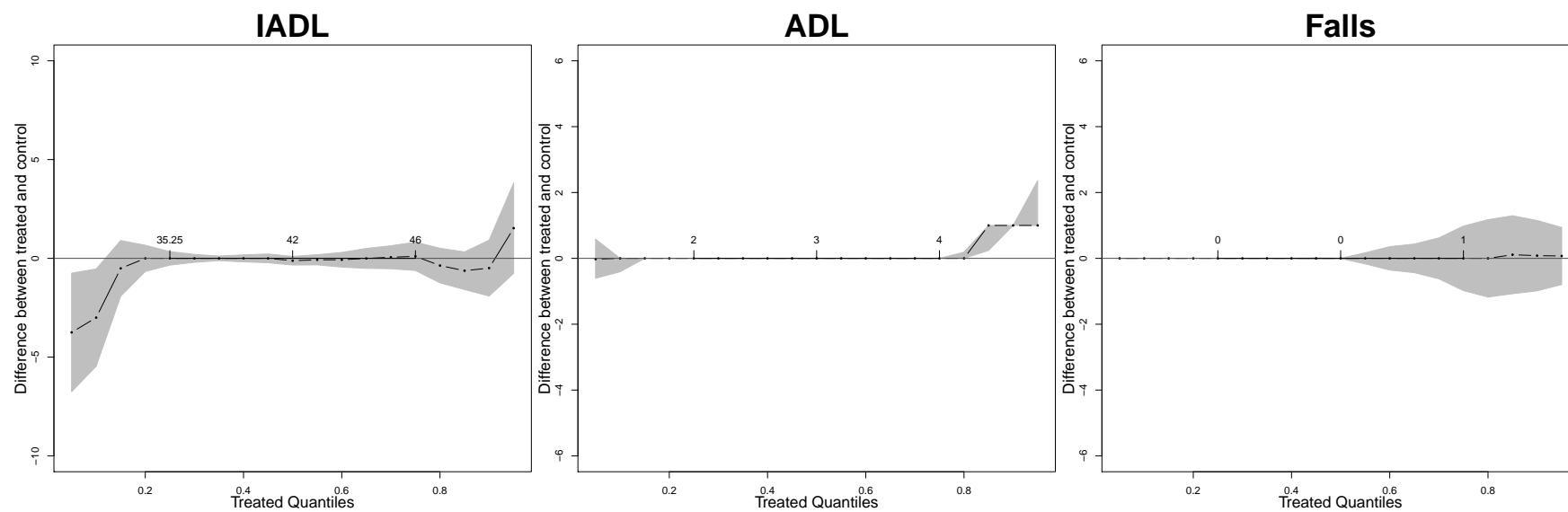


Figure 2.9: Regression quantile of functional clinical outcome (Func., cogn., behav.)

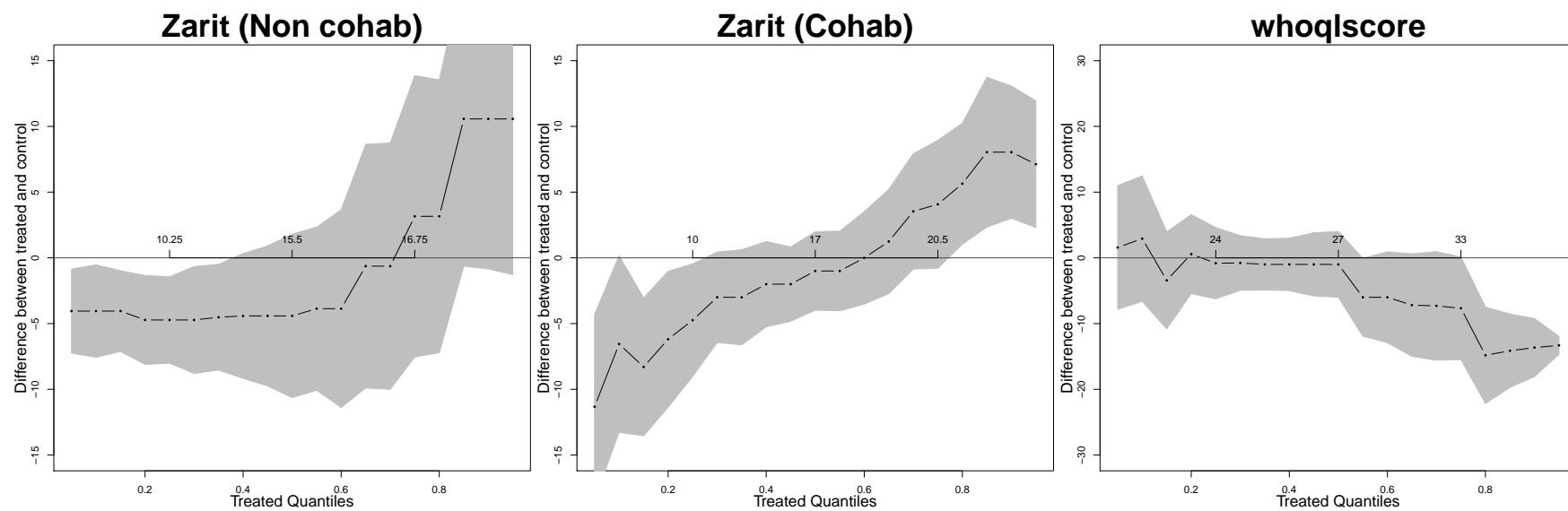


Figure 2.10: Regression quantile of burden and quality of life clinical outcome (Func., cogn., behav.)



## 2.1.4 Utilisation of services

### Appropriate use of services

Table 2.6: IC differnce of mean between treated and control for the dependency IMA outcomes

	Nursing Care N months		Short term institu. N stays		Day care center N days	
	Use	Users	Use	Users	Use	Users
<b>low limit.</b>						
% / Med[IQR] C	81.62	6[6-6]	0	-	0	-
% / Med[IQR] T	47.49	5[2-6]	1.43	1[1-2]	1.19	16[8-36]
OR [IC95]	0.23[0.15/0.34]		-[-/-]		-[-/-]	
<b>IADL, (cogn.)</b>						
% / Med[IQR] C	92.94	6[6-6]	0	-	1.57	62[14-109]
% / Med[IQR] T	58.82	6[3-6]	1.18	2[1-3]	3.14	87[46-111]
OR [IC95]	0.1[0.05/0.18]		-[-/-]		0.95[0.16/9.29]	
<b>func.</b>						
% / Med[IQR] C	97.77	6[6-6]	0	-	0.51	101[58-105]
% / Med[IQR] T	82.68	6[4-6]	2.4	2[1-3]	3.09	23[9-36]
OR [IC95]	0.18[0.08/0.33]		2.58[0/14.97]		6.62[2.23/127527268.89]	
<b>func., cogn.</b>						
% / Med[IQR] C	97.97	6[5-6]	0	-	1.16	81[81-105]
% / Med[IQR] T	84.01	6[3-6]	3.2	2[1-2]	12.5	39[9-64]
OR [IC95]	0.15[0.05/0.3]		3.01[0/17.55]		8.96[4.25/38.61]	
<b>func., cogn., behav.</b>						
% / Med[IQR] C	89.62	6[5-6]	0	-	3.77	178[178-178]
% / Med[IQR] T	78.3	6[4-6]	2.83	2[1-3]	13.21	17[7-23]
OR [IC95]	0.15[0.03/0.4]		-[-/-]		3.28[0.98/28.9]	

Table 2.7: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated at inclusion)

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or	15.3(6.8)	84.7(37.9)	37.5(7.2)	62.5(12)	100(0.2)	0(0)	0(0)	100(1.6)	33.3(1.3)	66.7(2.5)
Incont										
Low lim,										
ADL &	21.4(0.9)	78.6(3.1)	28.6(0.7)	71.4(1.7)	0(0)	100(0.2)	0(0)	100(1.2)	0(0)	100(1.3)
Incont										
ADL lim	51.6(13.4)	48.4(12.5)	42.2(18.5)	57.8(25.3)	65.1(23.8)	34.9(12.8)	58.6(16.3)	41.4(11.6)	41.7(12.7)	58.3(17.7)
Incont	26.3(1.4)	73.7(4)	38.5(1.7)	61.5(2.7)	-(0)	-(0)	0(0)	100(0.4)	0(0)	100(1.3)
ADL &										
Incont	45.8(3.1)	54.2(3.7)	46.7(7.2)	53.3(8.2)	73.9(29.8)	26.1(10.5)	71.5(37.1)	28.5(14.7)	75(41.8)	25(13.9)
lim										
ADL ?										
No Incont	41.3(5.4)	58.7(7.7)	39.5(5.8)	60.5(8.9)	68.1(15.5)	31.9(7.2)	69.8(12)	30.2(5.2)	83.3(6.3)	16.7(1.3)
tot	31.1(31.1)	68.9(68.9)	41.1(41.1)	58.9(58.9)	69.2(69.2)	30.8(30.8)	65.3(65.3)	34.7(34.7)	62(62)	38(38)

Table 2.8: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Control at inclusion)

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or	30.4(9.7)	69.6(22.2)	46.2(6.2)	53.8(7.2)	0(0)	100(0.5)	18.8(1.2)	81.2(5.2)	100(11.4)	0(0)
Incont										
Low lim,										
ADL &	100(3.4)	0(0)	57.1(4.1)	42.9(3.1)	-(0)	-(0)	100(0.4)	0(0)	-(0)	-(0)
Incont										
ADL lim	47.1(16)	52.9(17.9)	69.5(31.2)	30.5(13.7)	84.9(22.5)	15.1(4)	93.9(12.4)	6.1(0.8)	77.3(21.5)	22.7(6.3)
Incont	61.5(2.3)	38.5(1.4)	16.7(0.7)	83.3(3.4)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
ADL &										
Incont	95.6(18.5)	4.4(0.9)	75.5(13.7)	24.5(4.5)	96.6(50.2)	3.4(1.8)	90.9(63.7)	9.1(6.4)	54.2(32.9)	45.8(27.8)
lim										
ADL ?										
No Incont	48.1(3.7)	51.9(4)	88.9(11)	11.1(1.4)	83.3(17.5)	16.7(3.5)	84(8.4)	16(1.6)	-(0)	-(0)
tot	53.6(53.6)	46.4(46.4)	66.8(66.8)	33.2(33.2)	90.2(90.2)	9.8(9.8)	86.1(86.1)	13.9(13.9)	65.8(65.8)	34.2(34.2)

Table 2.9: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated second eval)

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or	26.8(12)	73.2(32.8)	50(9.6)	50(9.6)	100(0.2)	0(0)	0(0)	100(1.6)	0(0)	100(3.8)
Incont										
Low lim,										
ADL &	50(2)	50(2)	57.1(1.4)	42.9(1)	100(0.2)	0(0)	33.3(0.4)	66.7(0.8)	0(0)	100(1.3)
Incont										
ADL lim	73.6(19.1)	26.4(6.8)	61.7(27.1)	38.3(16.8)	82.2(30)	17.8(6.5)	72.9(20.3)	27.1(7.6)	54.2(16.5)	45.8(13.9)
Incont	42.1(2.3)	57.9(3.1)	46.2(2.1)	53.8(2.4)	-(0)	-(0)	0(0)	100(0.4)	0(0)	100(1.3)
ADL &										
Incont	50(3.4)	50(3.4)	60(9.2)	40(6.2)	77.6(31.2)	22.4(9)	78.5(40.6)	21.5(11.2)	79.5(44.3)	20.5(11.4)
lim										
ADL ?										
No Incont	58.7(7.7)	41.3(5.4)	76.7(11.3)	23.3(3.4)	84.6(19.2)	15.4(3.5)	74.4(12.7)	25.6(4.4)	100(7.6)	0(0)
tot	46.4(46.4)	53.6(53.6)	60.6(60.6)	39.4(39.4)	81(81)	19(19)	74.1(74.1)	25.9(25.9)	68.4(68.4)	31.6(31.6)

Table 2.10: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Control second eval)

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or	43.8(14)	56.2(17.9)	64.1(8.6)	35.9(4.8)	0(0)	100(0.5)	100(6.4)	0(0)	100(11.4)	0(0)
Incont										
Low lim,										
ADL &	100(3.4)	0(0)	100(7.2)	0(0)	-(0)	-(0)	100(0.4)	0(0)	-(0)	-(0)
Incont										
ADL lim	100(33.9)	0(0)	95.4(42.8)	4.6(2.1)	100(26.5)	0(0)	100(13.1)	0(0)	100(27.8)	0(0)
Incont	100(3.7)	0(0)	100(4.1)	0(0)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
ADL &										
Incont	95.6(18.5)	4.4(0.9)	90.6(16.4)	9.4(1.7)	98.6(51.2)	1.4(0.8)	100(70.1)	0(0)	89.6(54.4)	10.4(6.3)
lim										
ADL ?										
No Incont	100(7.7)	0(0)	100(12.3)	0(0)	100(21)	0(0)	100(10)	0(0)	-(0)	-(0)
tot	81.2(81.2)	18.8(18.8)	91.4(91.4)	8.6(8.6)	98.8(98.8)	1.2(1.2)	100(100)	0(0)	93.7(93.7)	6.3(6.3)

## Inappropriate use of services

Table 2.11: IC difference of mean between treated and control for the low value IMA outcomes

	Emergency N visits		GP out-of hours N visits		Hospilisation N visits	
	Use	Users	Use	Users	Use	Users
<b>low limit.</b>						
% / Med[IQR] C	22.2	2[2-4]	5.25	2[2-10]	19.57	1[1-1]
% / Med[IQR] T	20.05	2[1-2]	9.79	1[1-2]	27.68	1[1-2]
OR [IC95]	0.98[0.67/1.39]		1.92[1.15/3.42]		1.9[1.39/2.73]	
<b>IADL, (cogn.)</b>						
% / Med[IQR] C	17.65	2[2-4]	10.98	2[2-2]	16.47	1[1-2]
% / Med[IQR] T	26.27	1[1-2]	19.22	1[1-2]	30.98	1[1-2]
OR [IC95]	1.46[0.97/2.32]		1.8[1.06/3.25]		2.18[1.43/3.51]	
<b>func.</b>						
% / Med[IQR] C	19.9	2[2-4]	15.09	2[2-2]	23.16	1[1-1]
% / Med[IQR] T	22.47	2[1-2]	14.07	2[1-2]	33.1	1[1-2]
OR [IC95]	1.11[0.83/1.49]		0.86[0.63/1.21]		1.6[1.24/2.07]	
<b>func., cogn.</b>						
% / Med[IQR] C	24.42	2[2-2]	12.79	2[2-2]	25	1[1-2]
% / Med[IQR] T	28.49	1[1-2]	20.93	1[1-2]	34.01	1[1-1]
OR [IC95]	1.15[0.8/1.68]		1.61[1.06/2.6]		1.49[1.03/2.14]	
<b>func., cogn., behav.</b>						
% / Med[IQR] C	32.08	2[2-2]	10.38	2[2-2]	22.64	1[1-1]
% / Med[IQR] T	24.53	1[1-2]	17.92	2[1-2]	29.25	1[1-2]
OR [IC95]	0.54[0.26/1.12]		1.44[0.53/4.43]		0.92[0.45/1.86]	

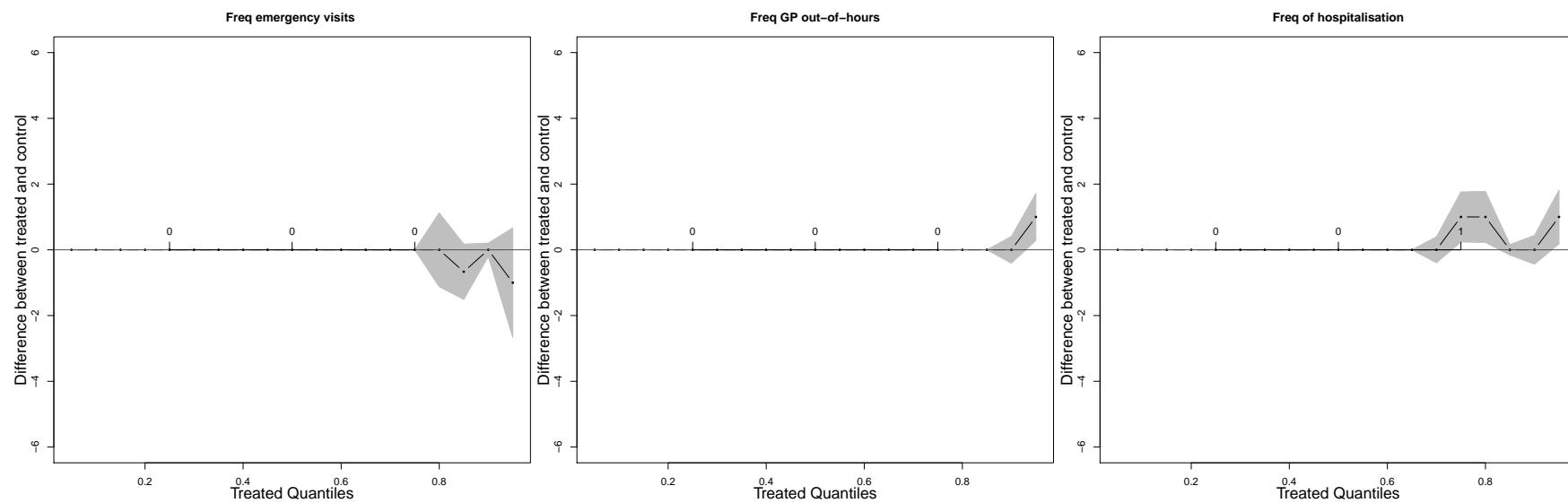


Figure 2.11: Regression quantile of inappropriate use of services (Low limitation)

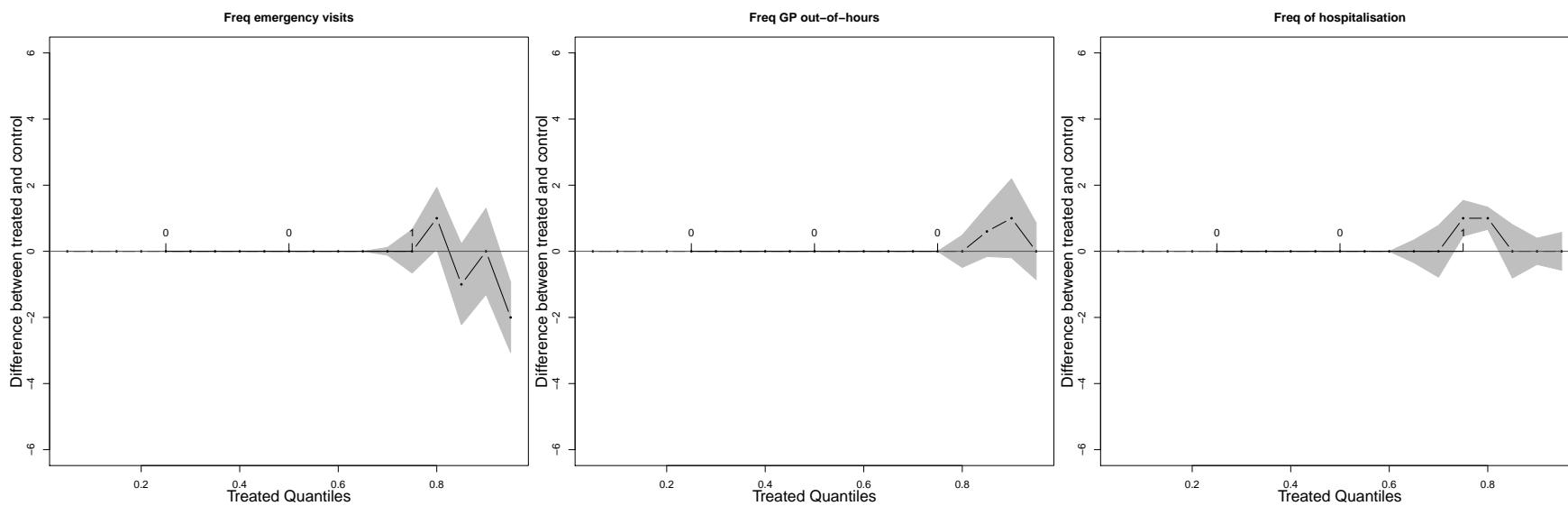


Figure 2.12: Regression quantile of inappropriate use of services (IADL (cogn.))

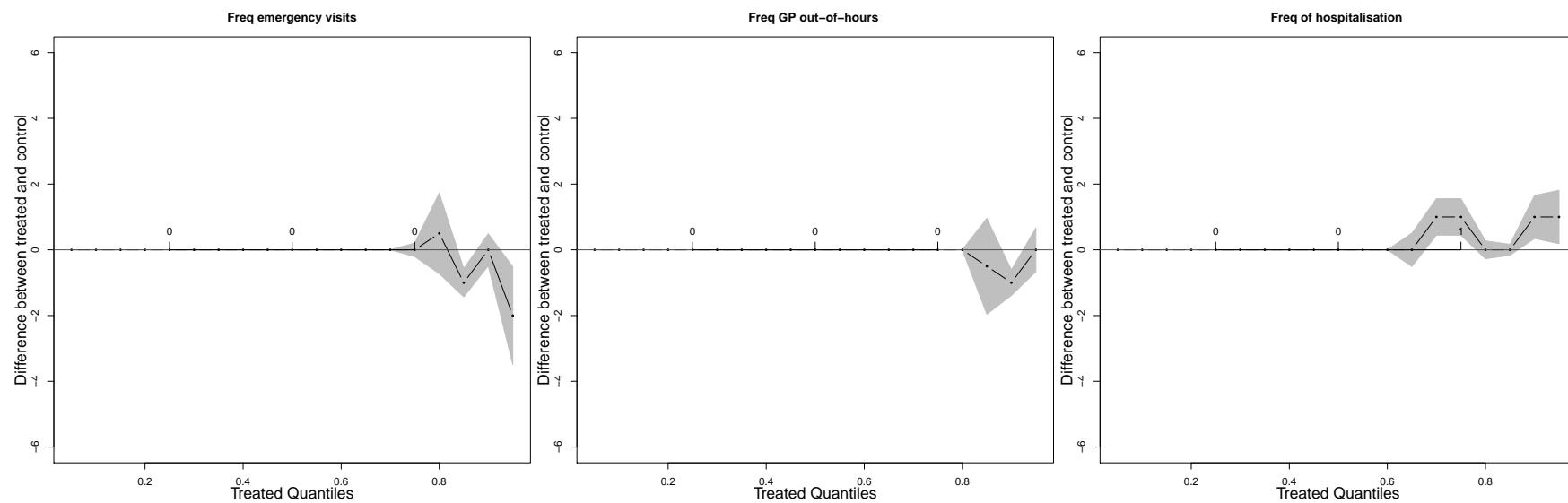


Figure 2.13: Regression quantile of inappropriate use of services (Func.)

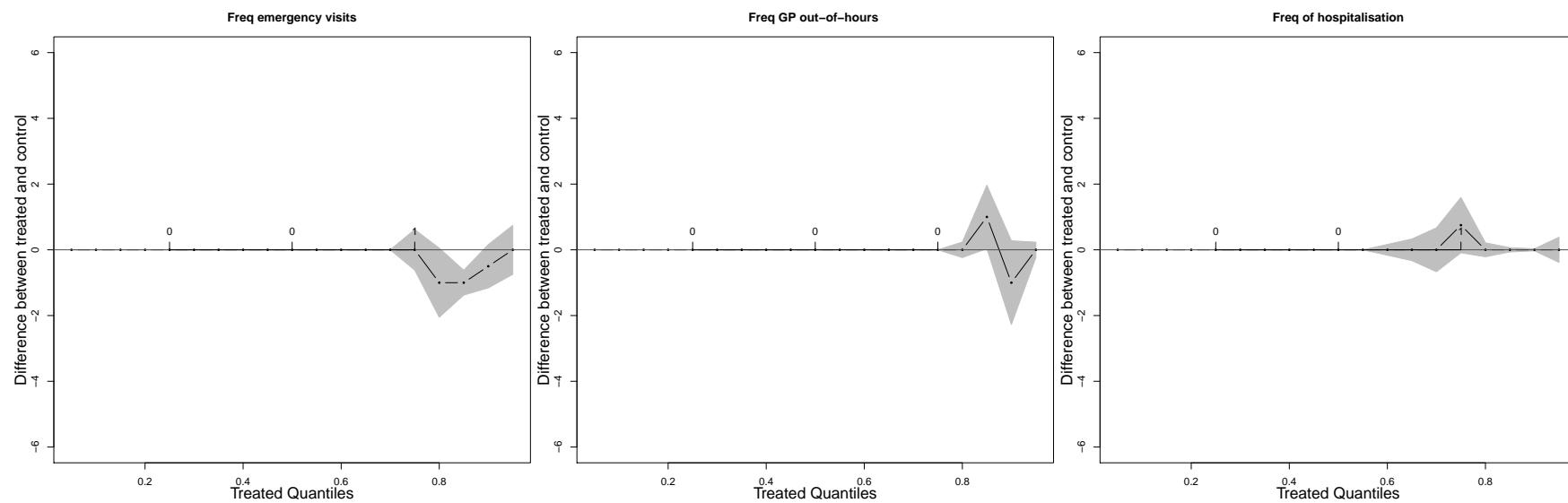


Figure 2.14: Regression quantile of inappropriate use of services (Func., cogn.)

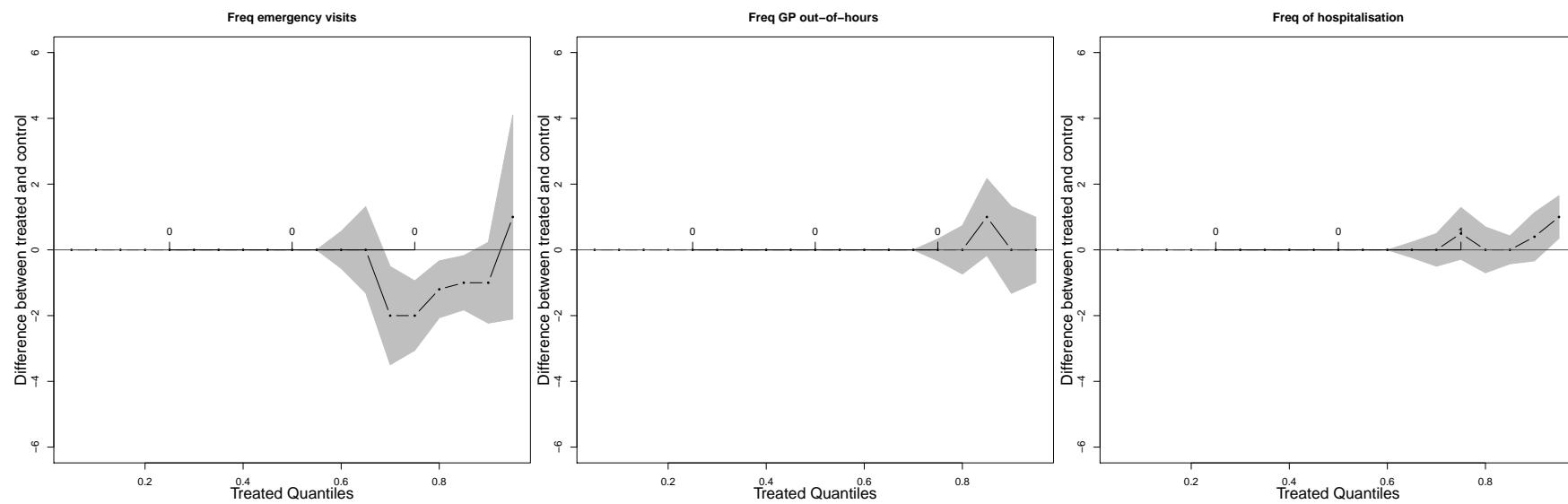


Figure 2.15: Regression quantile of inappropriate use of services (Func., cogn., behav.)

## Definitive institutionalisation and death

Table 2.12: IC of ratio of incidence rate between treated and control for the death and the definitive institutionalisation

	Definitive institu.	Death
<b>low</b>		
<b>limit.</b>		
IR T	0.0062	0.0049
IR C	0.0083	0.0012
IC95	0.38/1.46	1.15/14.42
<b>IADL,</b>		
<b>(cogn.)</b>		
IR T	0.0191	0.0047
IR C	0.0128	0.0094
IC95	0.82/2.7	0.2/1.23
<b>func.</b>		
IR T	0.0129	0.0126
IR C	0.0024	0.0086
IC95	2.53/11.51	0.92/2.36
<b>func.,</b>		
<b>cogn.</b>		
IR T	0.0267	0.0193
IR C	0.0144	0.0123
IC95	1.16/2.98	0.94/2.63
<b>func.,</b>		
<b>cogn.,</b>		
<b>behav.</b>		
IR T	0.0405	0.0254
IR C	0.0134	0.0115
IC95	1.34/6.82	0.9/5.42

## 2.1.5 Health care costs linked to disability for the NIHDI

Table 2.13: Average costs of health care services and technical equipment for six months (per month, per patient)

	Interv.		Nurs.		Phys.		Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>														
Mean T	0	96.9	83.5	135.6	25.1	47.6	1.2	12.2	2.1	4.9	2.4	2.5		
Mean C	0	0	254.6	562.2	36.2	70.2	2.5	1.1	12.9	7.7	4.2	0.3		
IC95	0/0	94/100	-206/-140	-491/-360	-20/-2	-38/-7	-3/0	4/20	-15/-7	-9/3	-5/2	0/5		
<b>IADL</b>														
(cogn.)														
Mean T	0	88.2	118.3	205.2	32.9	45.6	2.4	8.1	5.2	8.7	3.5	6.7		
Mean C	0	0	372.1	894.2	60.9	136.7	5.7	19.6	30.8	10.9	0.9	0.3		
IC95	0/0	84/92	-308/-198	-790/-589	-41/-14	-116/-67	-7/0	-23/-1	-36/-16	-10/4	-1/6	2/12		
<b>Func.</b>														
Mean T	0	114.6	363.2	565.3	64.9	97.9	6.9	17.4	15.6	23.1	2.5	3.1		
Mean C	0	0	823.1	1331.9	114.2	152.3	10.7	69.3	69.4	13.5	3.4	10.6		
IC95	0/0	111/118	-521/-403	-844/-681	-66/-33	-76/-35	-10/2	-100/-15	-61/-46	3/16	-4/3	-14/-1		
<b>Func. cogn.</b>														
Mean T	0	102.2	471.5	773	61	105.7	14.3	20.3	21.8	28.3	1.6	0.6		
Mean C	0	0	1060.6	1822.8	116.1	178.9	0.2	41.4	84.7	25.5	1.9	3.9		
IC95	0/0	97/107	-690/-486	-1188/-926	-74/-36	-104/-46	8/21	-44/-2	-74/-53	-6/12	-3/3	-8/1		
<b>Func. cogn. behav</b>														
Mean T	0	96.9	433.8	599.8	67.1	98.1	5.6	43.8	16.9	16.1	0.1	4.2		
Mean C	0	0	743.8	1453.8	75.4	175.9	5.7	12.3	62.3	25.1	0	1.7		
IC95	0/0	87/107	-515/-125	-1131/-579	-40/22	-135/-19	-7/11	-12/98	-61/-29	-22/4	0/0	-3/12		

Table 2.14: Average costs of other health care services for six months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>												
Mean T	0.6	2.8	18.2	26.9	25.3	27.1	37.4	2	2.7	599.1	745.9	
Mean C	0	0	15.6	0.3	54.1	53.8	76.2	1.3	2.4	317.2	434	
IC95	0/2	0.2/7	-9.8/15	17.1/39	-54.9/-3	-34.5/-20	-47.1/-30	-0.1/2	-0.9/1	143.6/417	93.4/534	
<b>IADL (cogn.)</b>												
Mean T	11.6	19.8	33	55.6	80	26.6	34.6	4	2.9	780.9	869.5	
Mean C	0	7.6	11.8	7.5	75.8	49.3	80.1	2.1	3.1	468.6	434.2	
IC95	1.7/26	-5.6/31	2.3/43	24.5/72	-46.6/56	-29.5/-16	-54/-36	0.2/4	-1.8/1	120.2/504	209/679	
<b>Func.</b>												
Mean T	2	7.9	43.3	60.5	68.8	38.5	54.6	1.6	2.1	1149.1	1185	
Mean C	1.1	3	3	17.6	11.1	64.1	98.8	3	2.6	508.3	678.3	
IC95	-1.7/4	-1.3/11	28/53	27.1/62	32.7/82	-32.2/-19	-53.9/-35	-2.5/-1	-1.7/1	473.8/826	291.2/740	
<b>Func. cogn.</b>												
Mean T	22.5	42.5	27.4	67.1	112.1	33.8	56.4	2.5	2.6	1271	1130	
Mean C	10	9.7	9.4	19.1	53.7	52.2	89.2	3.1	3	548	806.4	
IC95	-1.9/27	14.8/51	6.4/30	24.7/73	18/104	-24.3/-12	-45.4/-19	-1.9/0	-1.7/1	490.5/976	22.2/640	
<b>Func. cogn. behav</b>												
Mean T	26.1	34.4	27	95.7	182.5	27.9	42.5	2.6	3.2	784.1	1237.5	
Mean C	28.8	54	8.6	52.2	15.9	27.6	76.6	3.3	8.1	518	761.5	
IC95	-41.5/40	-87/40	-0.1/37	-4.7/94	81.9/260	-9.9/10	-78.8/-1	-2.6/1	-8.4/-2	-43.6/556	-295.9/1356	

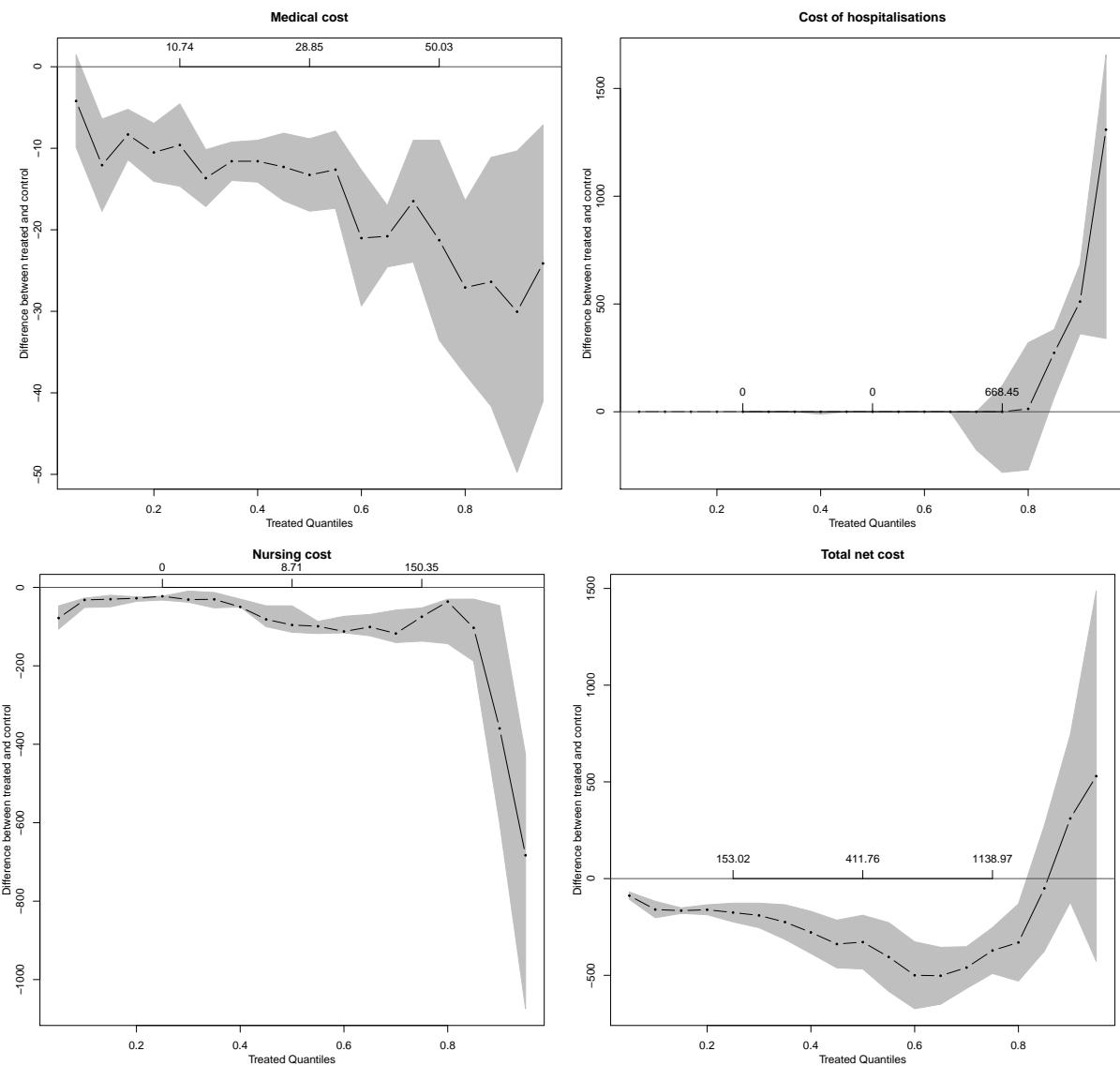


Figure 2.16: Graphs of the differences of costs between treated and control, **for the NIHDI, for the group of low limitations**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

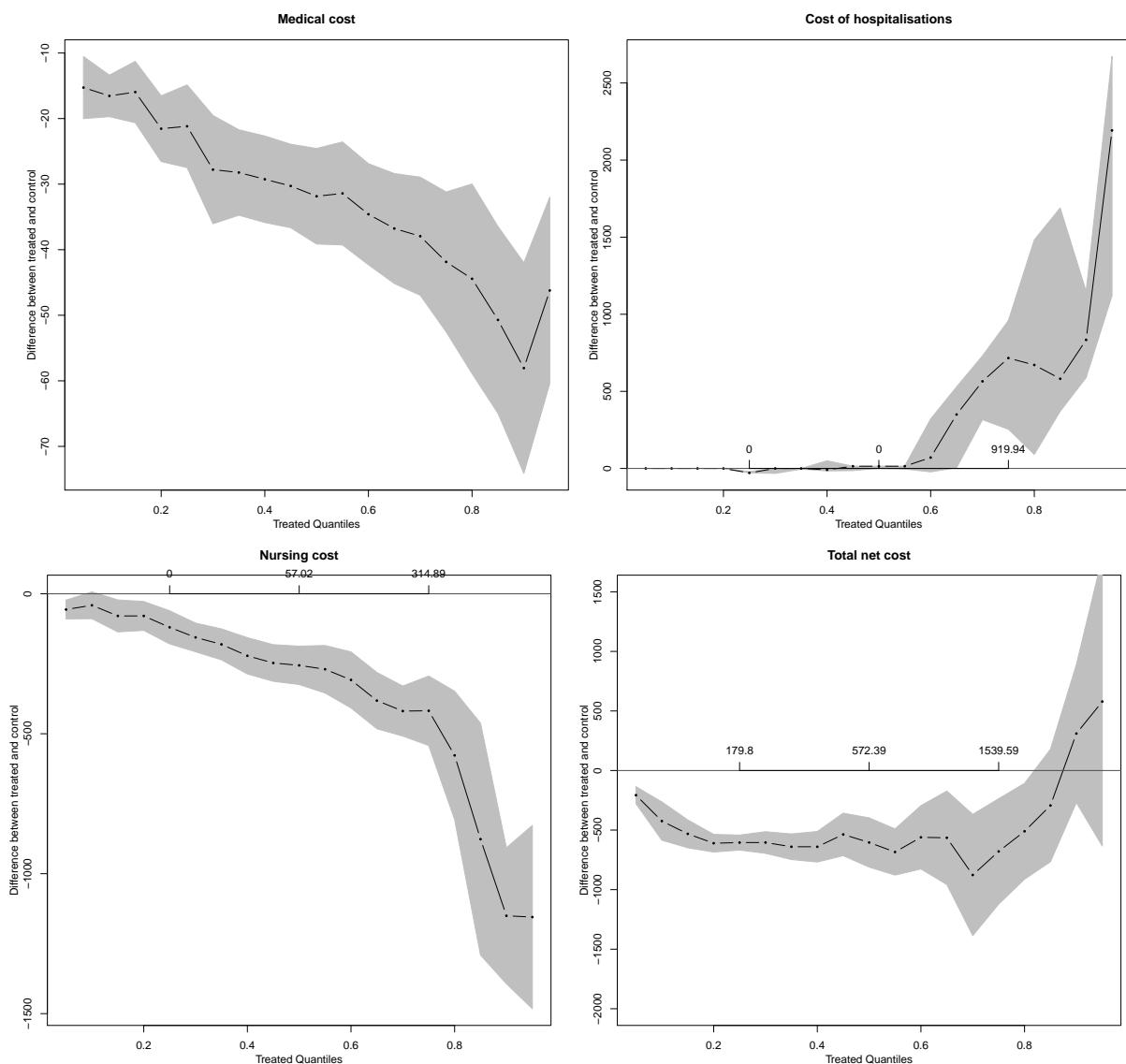


Figure 2.17: Graphs of the differences of costs between treated and control, **for the NIHDI, for the group of IADL limitations (cognitive impairment)**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

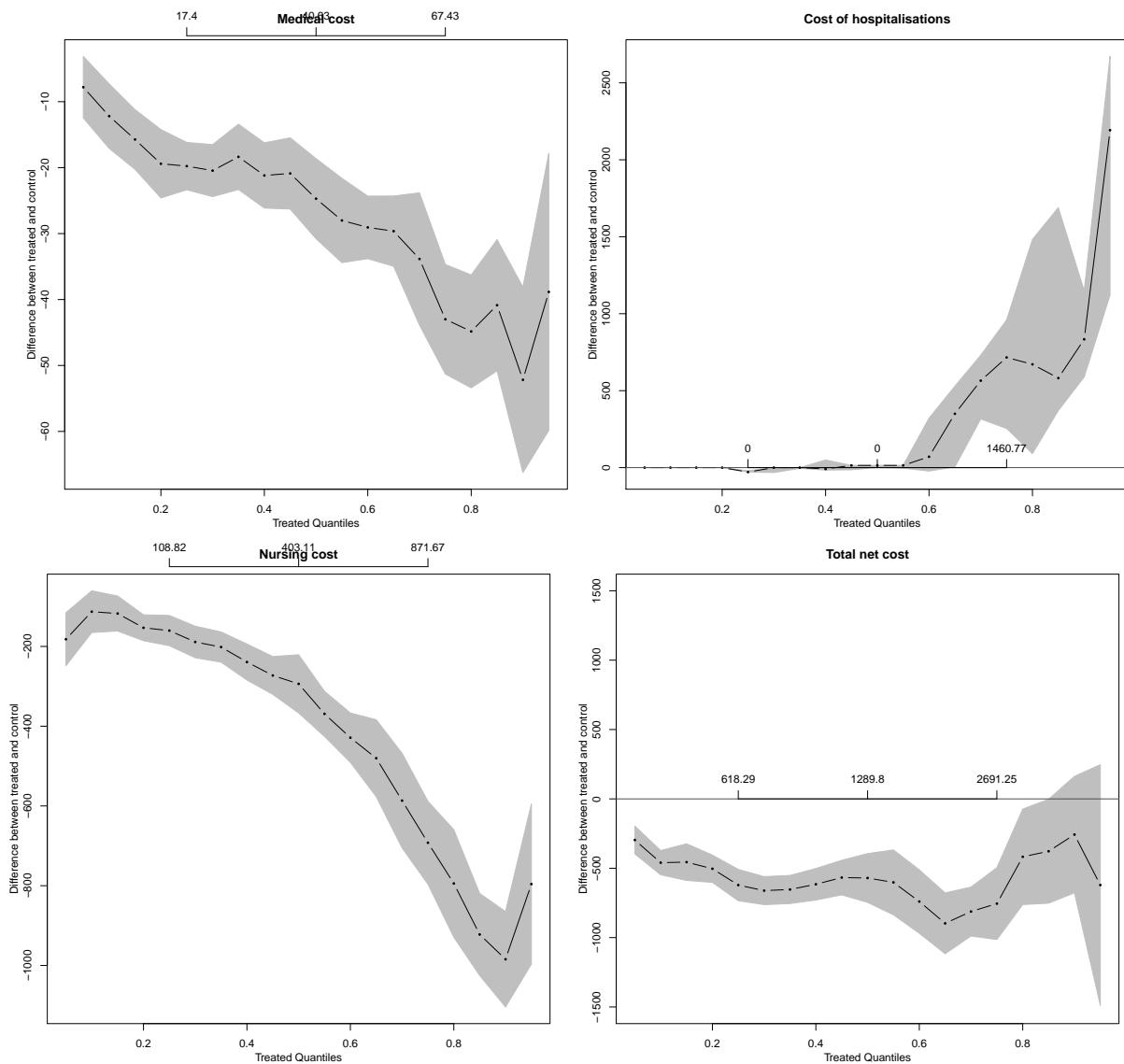


Figure 2.18: Graphs of the differences of costs between treated and control, **for the NIHDI, for the group of functional limitations**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

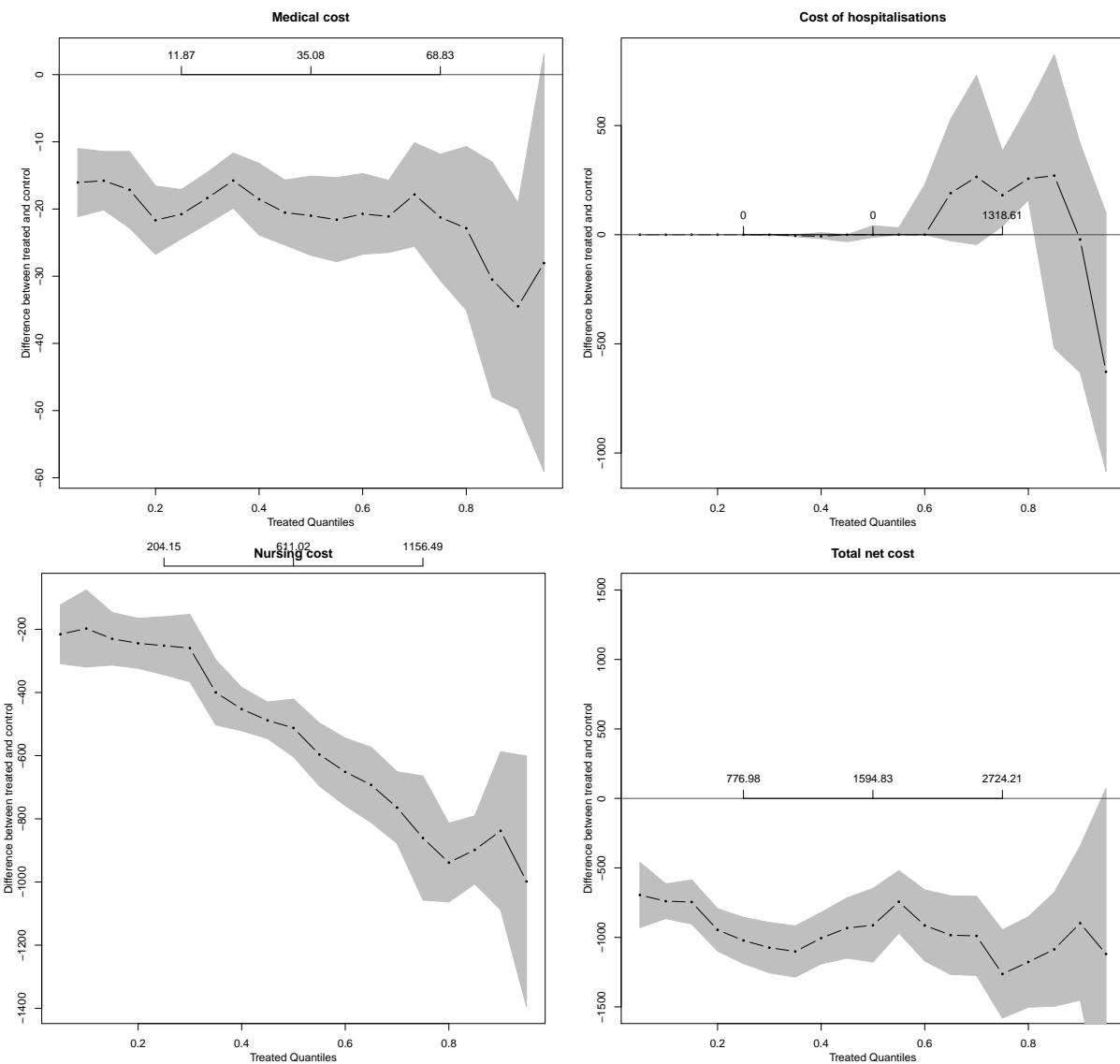


Figure 2.19: Graphs of the differences of costs between treated and control, **for the NIHDI, for the group of functional limitations and cognitive impairment**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

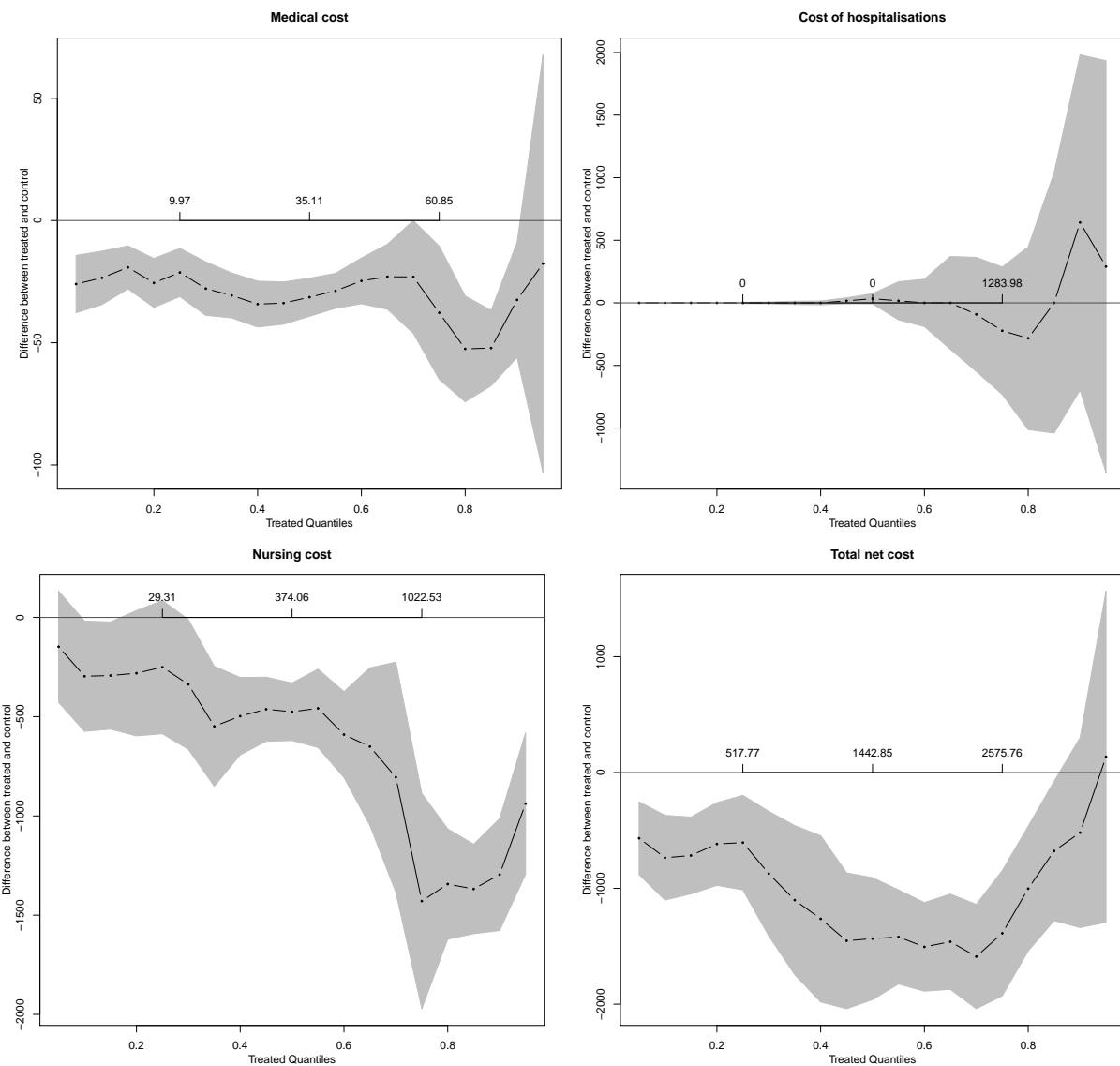


Figure 2.20: Graphs of the differences of costs between treated and control, **for the NHDI, for the group of functional limitations, cognitive impairment and behavioural problems**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)



## 2.1.6 Health care costs linked to disability for the patients

Table 2.15: Average costs of health care services and technical equipment for six months (per month, per patient)

	Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>										
Mean T	0.4	2.7	4.8	10.2	0.1	0.1	12.7	12.7	4	1.7
Mean C	5.1	6.8	11	13.4	0	0	25.8	25.8	7.4	0.2
IC95	-6.7/-2.8	-7.4/-0.8	-9.1/-3.7	-6.2/0	0/0.2	0/0.4	-18.6/-7.6	-18.2/-8.1	-10.9/3.9	-0.1/3.8
<b>IADL (cogn.)</b>										
Mean T	1.1	4.8	5.6	8.4	0	0	24.7	24.7	4	3.3
Mean C	7	18.1	13.6	24.8	0	0	36.9	36.9	1.5	0.2
IC95	-9.4/-2.5	-21.2/-6.3	-11.4/-4.7	-21.2/-12.1	0/0	0/0	-20/-4.7	-19.6/-4	-2.9/7.6	0/7.5
<b>Func.</b>										
Mean T	0.7	2	13.1	18.3	0.7	0.5	35	35	2.7	0.9
Mean C	3.7	6.3	17.4	30.2	0.6	0	48.6	48.7	0.8	5.4
IC95	-4.9/-1.4	-7.4/-1.7	-7.4/-1.1	-17.3/-6.8	-0.9/1.3	0/1.4	-19/-8.1	-19.4/-7.9	-0.7/4.8	-9.7/-0.4
<b>Func. cogn.</b>										
Mean T	1.1	2.5	10.6	19.8	0.1	0	59.9	59.9	2.2	1
Mean C	3	11.4	18.5	37.9	0	0	69.5	69.7	1.8	1.6
IC95	-3.8/-0.2	-14/-4.2	-11.8/-4.1	-27.3/-9.1	0/0.2	0/0	-16.3/-2.7	-16.6/-2.8	-3/4.2	-3.2/2
<b>Func. cogn. behav</b>										
Mean T	2.6	5.7	11	16.9	0	0	60.4	60.4	0	9.1
Mean C	2.3	21.6	8.2	23.9	0.2	0	73.6	73.6	0	0
IC95	-3.7/3.9	-29.3/-3	-2.2/7.4	-15.2/1.4	-0.4/-0.1	0/0.1	-24.5/-1.9	-25.5/-1.9	0/0	0/27.4

Table 2.16: Average cost of other health care services for six months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef
<b>Low limit.</b>												
Mean T	0.2	1.1	19.2	20.5	25.5	3.7	5.3	0.4	0.5	39.4	42.7	
Mean C	0	0	15	0.3	64.1	10.3	14.2	0.3	0.8	22.4	24.3	
IC95	0/0.7	0.1/2.5	-9.4/19.2	11.9/30.7	-69.5/-9.9	-8.1/-5.3	-11.1/-6.9	-0.2/0.3	-0.6/0	3.5/32.8	1.7/36.7	
<b>IADL</b>												
(cogn.)												
Mean T	4.3	6.6	26.7	52.5	62.8	3.9	5.4	0.7	0.6	52.7	43.6	
Mean C	0	2.7	13.1	8.4	72.9	8.5	12.1	0.6	0.8	21.6	20.6	
IC95	0.4/9.9	-2.6/10.6	-2.8/33.8	17.8/73.4	-59.1/36.6	-6.3/-2.9	-9.5/-3.2	-0.4/0.5	-0.6/0.2	12.6/50.7	5.4/39.8	
<b>Func.</b>												
Mean T	0.9	2.8	31.6	59.2	58	5.1	6.6	0.3	0.4	58.4	60.3	
Mean C	0.3	1.1	3.2	18.4	14	8.1	10.9	0.3	0.3	29.1	36.2	
IC95	-0.3/1.8	-0.6/4.2	19.3/39.3	21.5/60.3	21.5/68.6	-4.3/-1.5	-5.8/-2.8	-0.2/0.1	-0.1/0.3	13.6/46.4	1.4/50	
<b>Func.</b>												
cogn.												
Mean T	6.9	13.5	24.8	64.4	85.6	4	5.6	0.5	0.6	61.9	47.1	
Mean C	1.3	1.6	6.3	21.7	42	7.6	12.1	0.7	0.8	29.4	39.8	
IC95	1.6/10.3	6.1/18.5	7.3/29.8	18.5/70	8.2/82.3	-5.3/-2.2	-8.9/-4.3	-0.5/0.1	-0.6/0.2	11.5/55.4	-11/26.1	
<b>Func. cogn.</b>												
behav												
Mean T	9.3	7.5	23.3	81	146.4	4.1	6.6	0.9	0.4	28.8	36.7	
Mean C	11.1	20.9	2.8	34.4	6.5	3.4	7.1	0.3	0.8	40.4	41.8	
IC95	-17.3/13.7	-34.6/6.8	6.9/38	-0.1/91	66.7/221.7	-1.3/2.7	-3.7/2.5	0.1/1.1	-0.8/0.1	-30.8/7.1	-43.1/28.2	

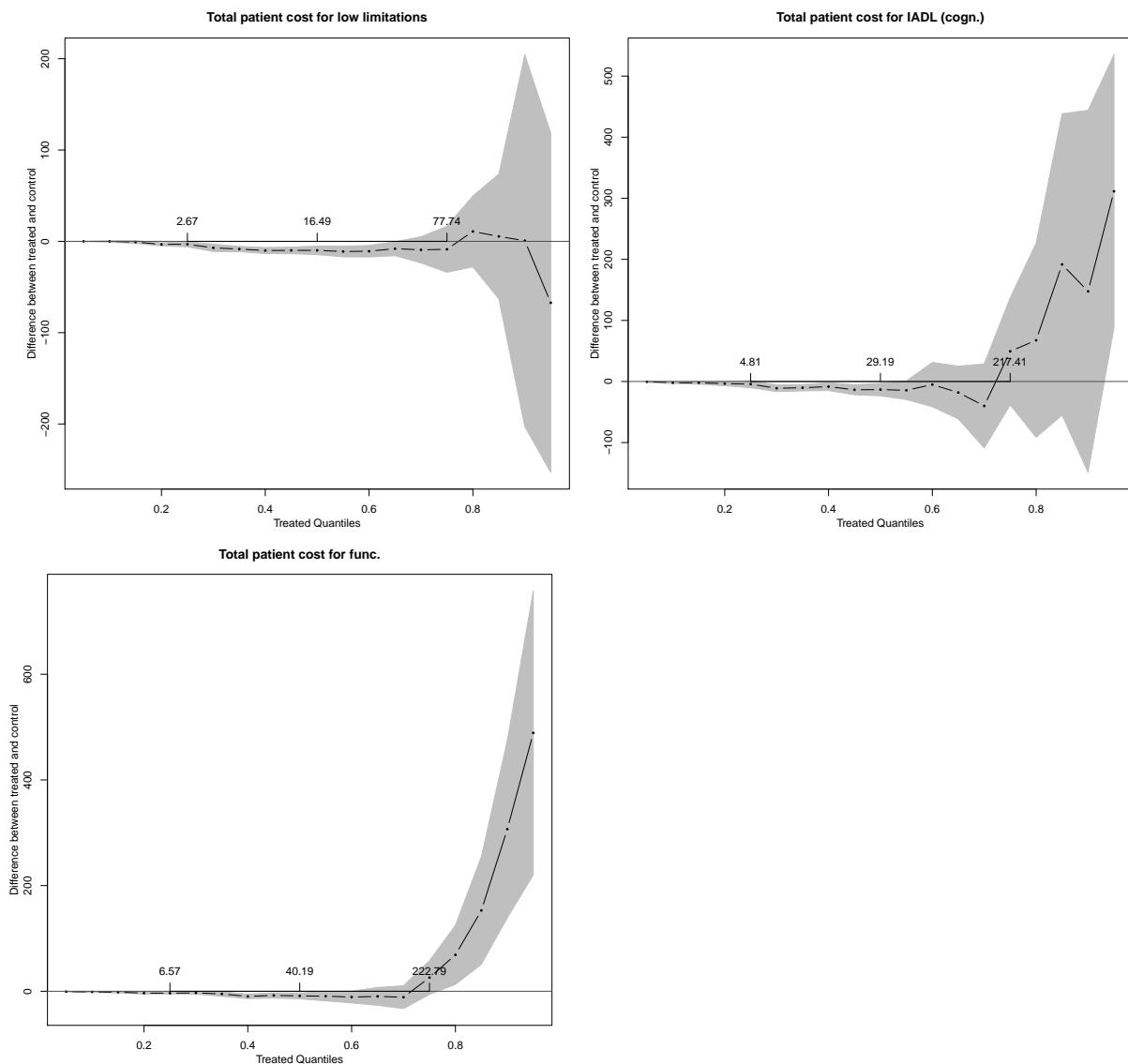


Figure 2.21: Graphs of the differences of the total cost for patients between treated and control, for six months, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

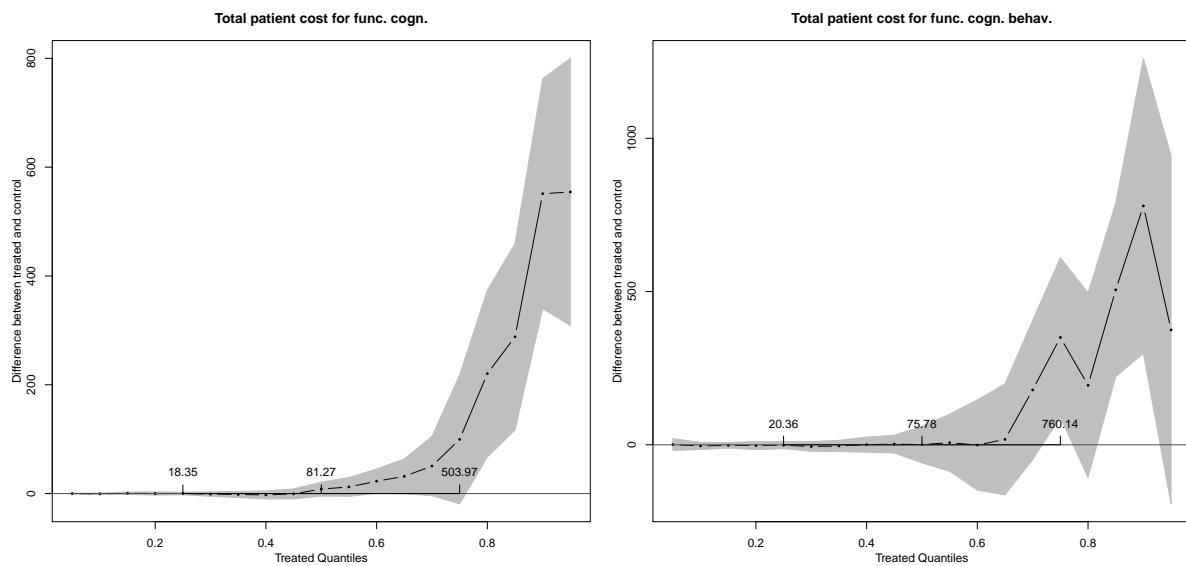


Figure 2.22: Graphs of the differences of the total cost for patients between treated and control, for six months, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

## 2.1.7 Cost differences for the stakeholders between treated and control

Table 2.17: Average cost differences between treated and control group per month (adjusted according to the level of cost before intervention, socio economic proxy and deaths)

	NIHDI Home		NIHDI Home + hosp. + inter		All NIHDI + patients + regions	
	Diff mean adj.	IC95	Diff mean adj.	IC95	Diff mean adj.	IC95
Low limit.	-149	-181/-114.3	-22	-158.3/167.3	-100	-273.2/110.1
IADL (cogn.)	-347	-399.6/-288	-280	-446/-86.8	-207	-454.9/94.2
Func.	-411	-472/-345.8	-412	-556.8/-239.7	-256	-434.9/-49.1
Func. cogn. or Func. cogn. behav	-517	-595.7/-435.4	-637	-792.9/-470.5	-395	-590.3/-169.5

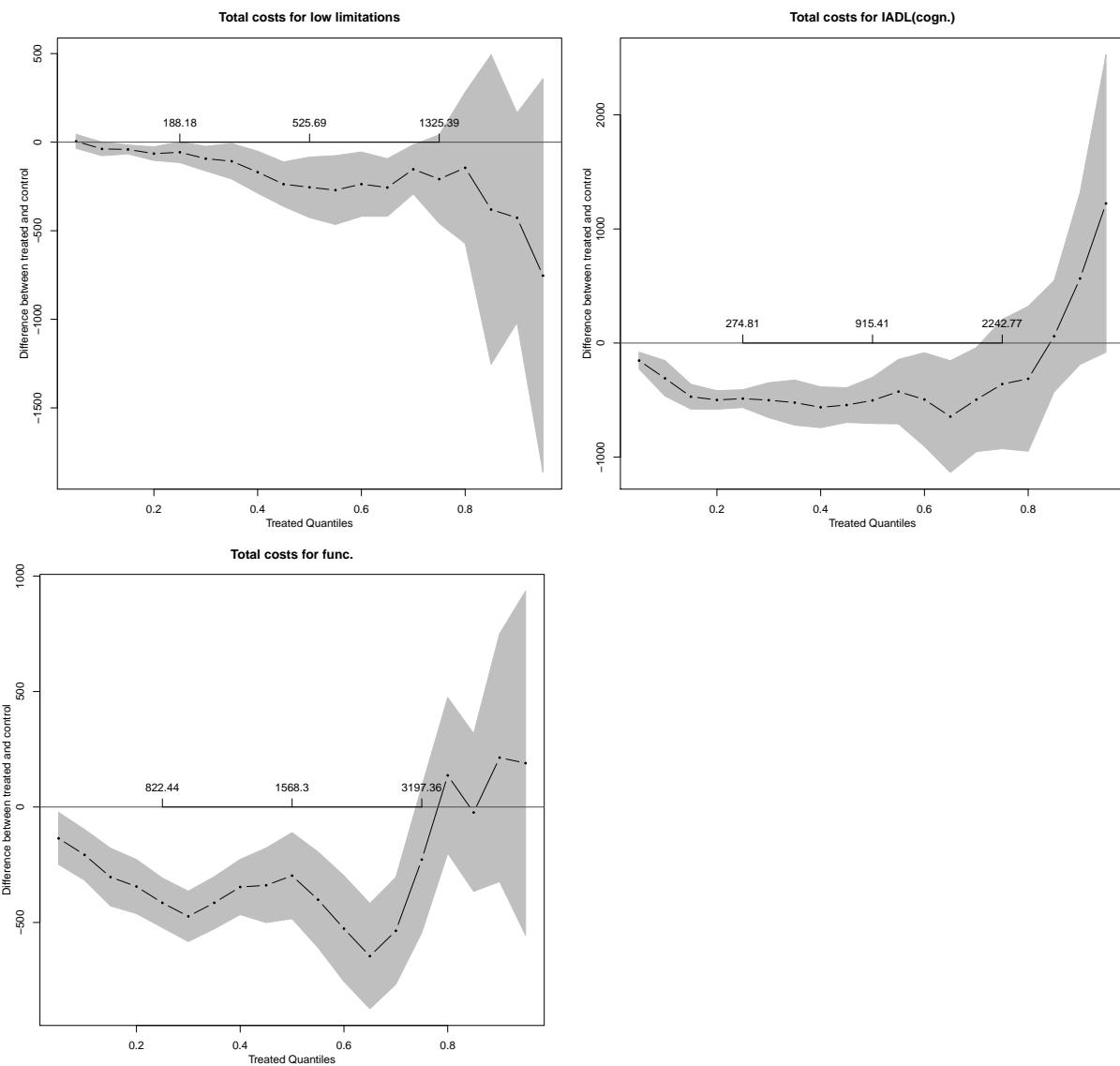


Figure 2.23: Graphs of the differences of the total cost at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the total cost before intervention (per month, per client)

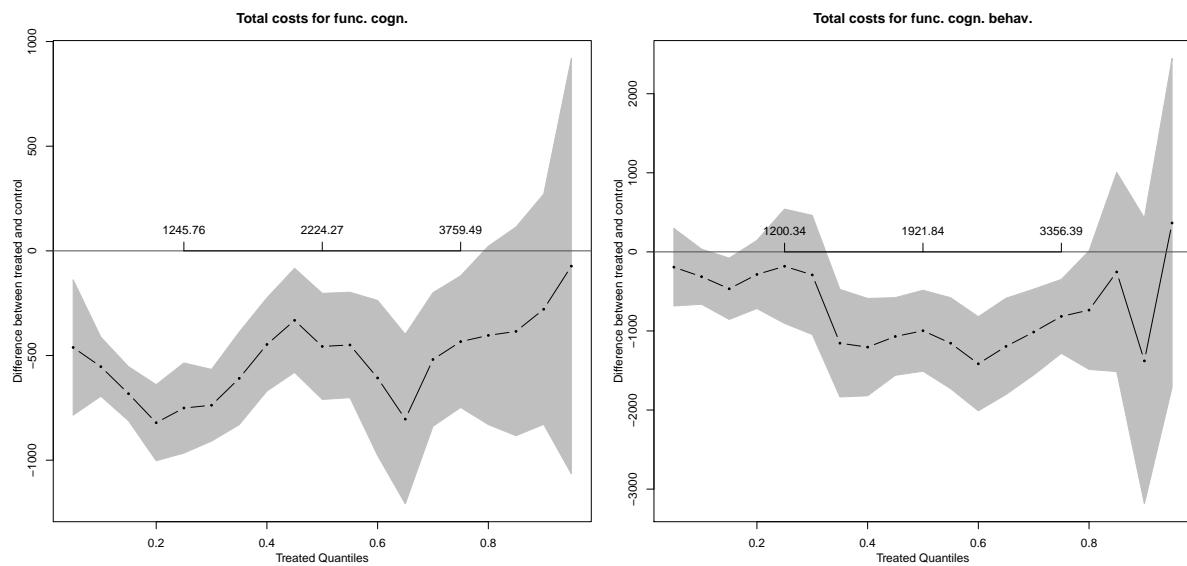


Figure 2.24: Graphs of the differences of the total cost at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the total cost before intervention (per month, per client)

### 2.1.8 Social care services

Table 2.18: Average costs per month (before evaluations)

	Fam. care		Household aid		Meals-on-Wheels	
	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>						
Mean T	859.4	839.4	344.2	378.3	23.7	24.1
IC95 T	689/1043	631/1064	302/394	324/439	16/31	17/32
Missing T (%)	52.6	63.2	39.5	48.6	39.5	48.6
Mean C	541	402.5	286.6	303.2	17.1	12.5
IC95 C	326/764	307/531	255/324	277/331	13/22	9/17
Missing C (%)	62.4	47.7	4	8.8	4	8.8
<b>IADL (cogn.)</b>						
Mean T	1437	1396.4	432.1	554.8	29.9	32.6
IC95 T	1164/1707	1105/1665	376/499	478/644	22/39	24/43
Missing T (%)	43	54.8	33.2	42.8	32.9	42.4
Mean C	1503.3	1002.2	422.1	468.9	35	21.8
IC95 C	1154/1771	721/1213	373/472	420/520	27/43	16/28
Missing C (%)	50.4	46	1	9.9	1	9.9
<b>Func.</b>						
Mean T	1643	1507.6	509.1	625.1	28.6	33
IC95 T	1437/1871	1305/1766	445/582	542/715	22/35	25/42
Missing T (%)	33.9	48.5	26.2	37.7	26.2	37.5
Mean C	1275.3	1383.4	442.4	511.5	31	34.9
IC95 C	1054/1540	1138/1657	400/486	442/578	24/38	28/42
Missing C (%)	45.1	45.6	3.6	10.8	3.6	10.8
<b>Func. cogn.</b>						
Mean T	2733.6	2328.6	485.8	673.6	28.3	21.2
IC95 T	2407/3054	1987/2689	401/578	563/790	20/37	14/29
Missing T (%)	34.2	46.1	26.8	37.5	26.8	37.5
Mean C	2434.6	2214.5	605.1	645.1	21.3	23.2
IC95 C	2033/2834	1851/2558	509/699	551/742	15/28	16/31
Missing C (%)	50.4	46.1	1.9	12.6	1.9	12.6
<b>Func. cogn. behav.</b>						
Mean T	2911.6	2332.4	440.8	662.2	23.3	28.1
IC95 T	2344/3533	1652/3049	328/583	461/883	11/38	13/47
Missing T (%)	29.5	52.6	25.3	46.8	25.3	46.8
Mean C	2406.5	1917.5	554.1	559.3	21.6	20.4
IC95 C	1670/3386	1353/2520	412/709	423/694	11/35	9/34
Missing C (%)	59	41	2.5	1.9	2.5	1.9

## 2.1.9 Number of days at home and in residential care facilities for six months

Table 2.19: Average number of days for 6 months

	Temp. NH		Hosp.		Def. NH		Days home		Days alive
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Aft	Aft
<b>Low limit.</b>									
Mean T	2.2	2.6	7.9	7.3	2.6	164.1	158.9	177.7	
Mean C	1.6	0	3.8	3.6	6.8	160.9	156.8	181.6	
Diff. TC. IC95	-0.8/2	1.7/4	2.1/6	2.1/6	-7.7/-1	-3.2/9	-4.5/9	-6.4/-1	
<b>IADL (cogn.)</b>									
Mean T	3.4	5.9	9.7	9.3	9.3	163.3	151	177.8	
Mean C	1.3	0.9	5.5	3.9	9.2	164.8	154.8	177.2	
Diff. TC. IC95	0.3/4	2.7/8	1.6/7	2.8/8	-5.3/6	-8.1/5	-12.5/5	-2.7/4	
<b>Func.</b>									
Mean T	4.6	5.9	13.7	10.3	7	159.4	146.4	172.8	
Mean C	0.3	2	5.9	5.9	1.4	160.8	153.6	176.4	
Diff. TC. IC95	2.9/6	2.3/6	5.7/10	2.6/6	3.3/8	-6.4/4	-13.2/-1	-7.3/0	
<b>Func. cogn.</b>									
Mean T	3.1	6.2	17.1	10.3	12.5	155.1	134.5	168.4	
Mean C	1	2.4	6.4	6.9	5.5	164.2	149.8	172.6	
Diff. TC. IC95	0.9/4	1.5/6	7.6/14	1/6	2.3/12	-15.3/-3	-24.4/-6	-9.3/1	
<b>Func. cogn. behav.</b>									
Mean T	2.9	8.9	10.8	10.7	18.5	156.8	122.6	168.8	
Mean C	0.9	5.7	7.9	5.5	1.8	172.3	161.6	174.3	
Diff. TC. IC95	0.2/4	-1.3/8	-1.7/8	0.8/9	8.7/25	-24.9/-8	-54.4/-23	-13.9/3	

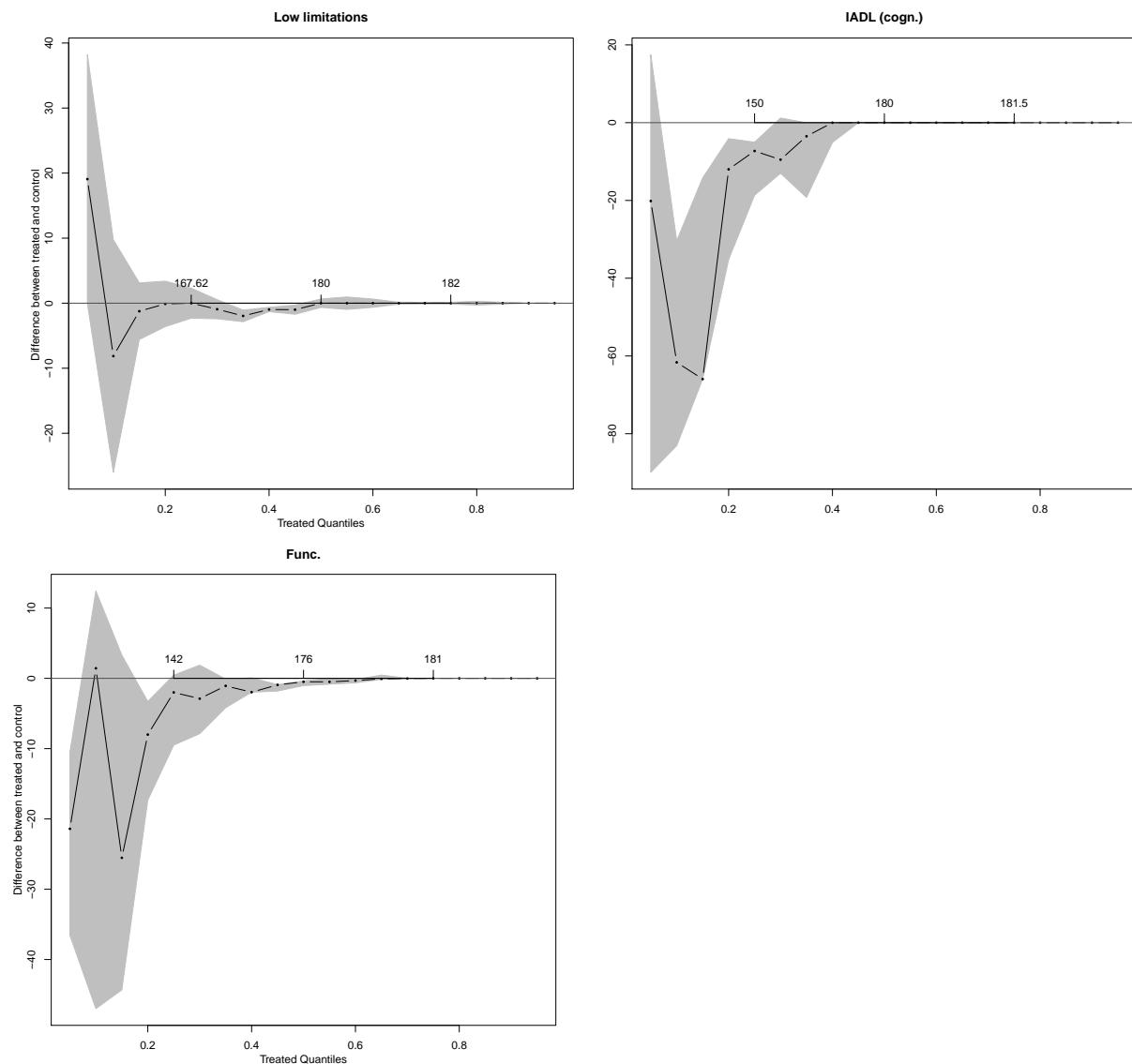


Figure 2.25: Graphs of the differences of days spent at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the number of days at home before intervention

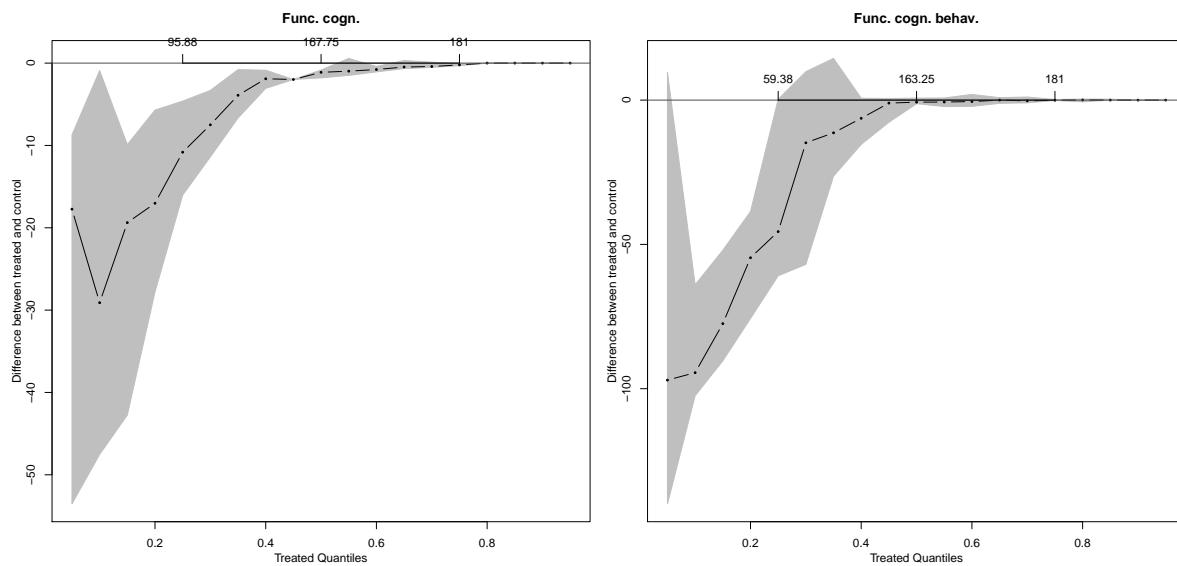


Figure 2.26: Graphs of the differences of days spent at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the number of days at home before intervention

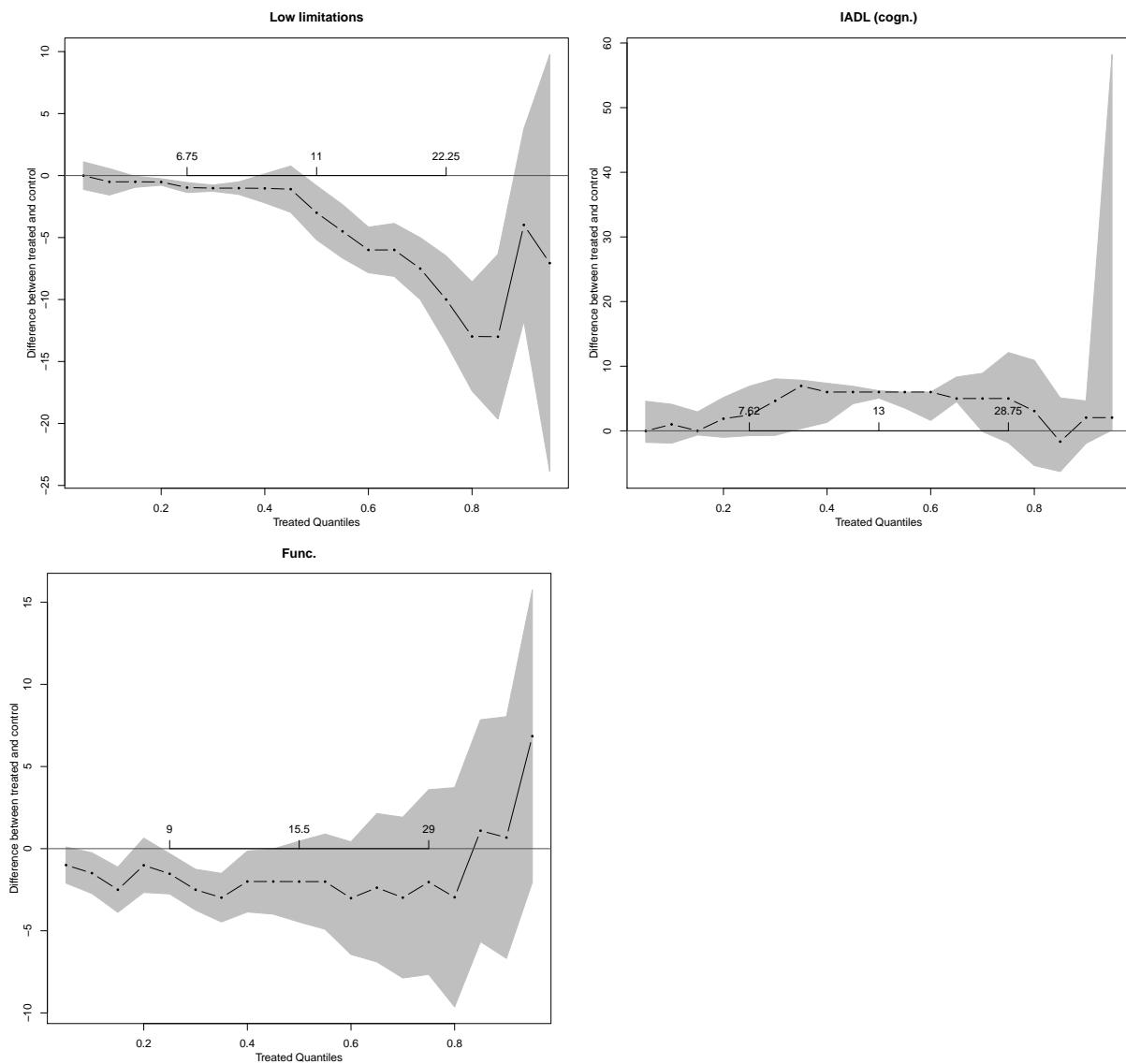


Figure 2.27: Graphs of the differences of days spent in hospital between treated and control, for six months, only for people with at least one hospitalisation, adjusted according to the proxy of the socio economic status and the number of days alive for six months

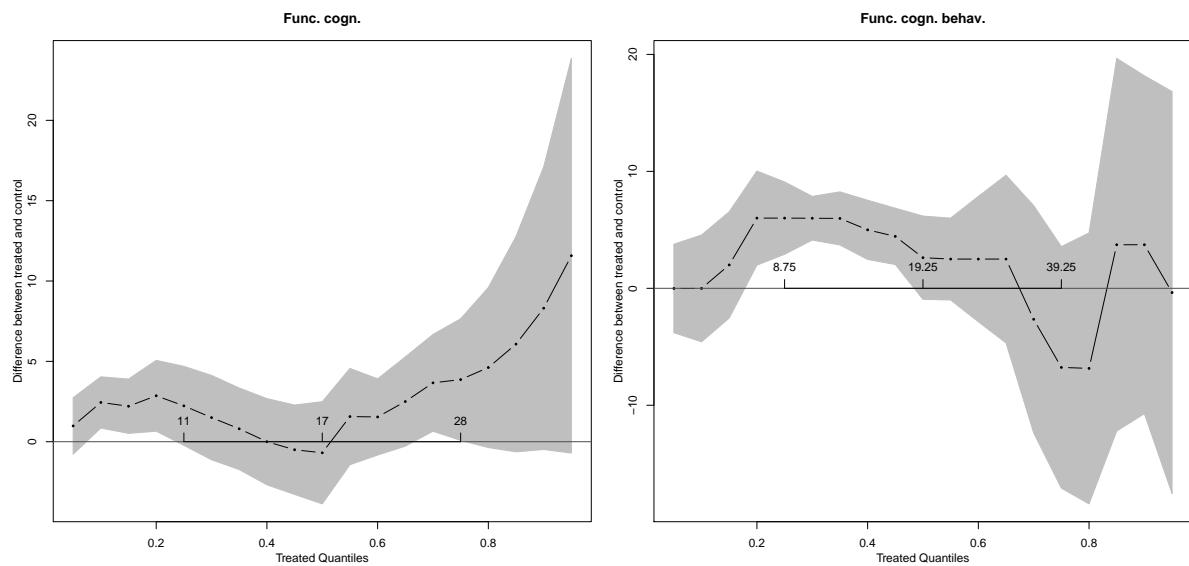


Figure 2.28: Graphs of the differences of days spent in hospital between treated and control, for six months, only for people with at least one hospitalisation, adjusted according to the proxy of the socio economic status and the number of days alive for six months

# Chapter 3

## F1P1I0

### 3.1 Comparison with the BelRAI control group

#### 3.1.1 Description of disability groups

Table 3.1: Proportion above the cut off of BelRAI scales depend on the subgroups of disability for the project F1P1I0

	low limit.	IADL, (cogn.)	func.	func., cogn.	func., cogn., behav.
IADL	4.72	98	95.12	100.00	100.00
ADL	1.57	0	100.00	88.37	84.62
CPS	5.51	9	0.00	97.67	84.62
Behav.	9.45	10	6.50	17.44	100.00
DRS	60.63	54	44.72	40.70	73.08
N	127.00	100	123.00	86.00	26.00

### 3.1.2 Description of socio-demographic variables

Table 3.2: Sociodemographic characteristics for the treated and the control group depend on the health profiles

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	T	C	T	C	T	C	T	C	T	C
<b>Age</b>										
Median[IQR]	77[70-82]	81[76-87]	80[71-84]	81[76-86]	82[75-87]	84[79-88]	83[76-87]	84[78-88]	82[70-88]	84[74-90]
<b>Gender</b>										
% Men	13.39	20.47	20	28	25.2	18.7	34.88	20.93	46.15	23.08
% Women	86.61	79.53	80	72	74.8	81.3	65.12	79.07	53.85	76.92
<b>ICG</b>										
% No ICG	51.97	51.18	18	18	6.5	6.5	0	0	0	0
% No cohabitant	39.37	40.16	54	55	65.85	65.04	44.19	44.19	42.31	42.31
% Cohabitant	8.66	8.66	28	27	27.64	28.46	55.81	55.81	57.69	57.69
<b>Region</b>										
Bruxelles	0	0	0	0	0	0	0	0	0	0
Flandre	36.22	40.16	36	37	78.86	84.55	75.58	75.58	69.23	50
Wallonie	63.78	59.84	64	63	21.14	15.45	24.42	24.42	30.77	50
<b>Median income</b>										
Low	37.01	25.2	36	39	8.94	11.38	1.16	6.98	7.69	42.31
Medium	39.37	47.24	27	33	17.07	46.34	29.07	50	23.08	46.15
High	23.62	27.56	37	28	73.98	42.28	69.77	43.02	69.23	11.54
<b>N</b>										
Unique value	127	46	100	61	123	80	86	47	26	14

### 3.1.3 Clinical outcome

Table 3.3: BelRai outcomes

	ADL		IADL		Falls	
	Bef	Aft	Bef	Aft	Bef	Aft
<b>low limit.</b>						
% cut off C	9.45	15.87	5.51	14.17	25.41	22.12
% cut off T	1.57	3.97	4.72	16.54	20.49	12.39
IC95	0.15[0/0.53]	0.52[0.02/2.47]	0.85[0.21/2.87]	0.93[0.4/2.25]	0.76[0.4/1.38]	0.43[0.18/0.89]
% NA	0	0.79	0	0	3.94	11.02
<b>IADL, (cogn.)</b>						
% cut off C	3	11.11	78	73.47	26.6	18.6
% cut off T	0	6.06	98	91.84	27.66	30.23
IC95	-[-/-]	0.58[0.13/1.91]	13.82[4.3/228658076.28]	3.8[1.57/12.89]	1.06[0.55/2.21]	1.63[0.75/3.84]
% NA	0	1	0	2	6	14
<b>func.</b>						
% cut off C	90.24	89.92	91.87	91.87	24.37	24.17
% cut off T	100	92.44	95.12	94.31	36.13	24.17
IC95	92382209.89[51116669.39/160204690.53]	0.33[0/1.04]	1.73[0.56/6.37]	0.77[0.07/3.67]	1.76[1.02/3.27]	0.56[0.24/1.1]
% NA	0	3.25	0	0	3.25	2.44
<b>func., cogn.</b>						
% cut off C	93.02	93.98	100	100	27.06	19.28
% cut off T	88.37	89.16	100	98.8	38.82	32.53
IC95	0.57[0.15/1.77]	0.5[0/14.02]	-[-/-]	-[-/-]	1.71[0.92/3.38]	2.06[0.94/4.7]
% NA	0	3.49	0	3.49	1.16	3.49
<b>func., cogn., behav.</b>						
% cut off C	69.23	69.23	100	100	32	20
% cut off T	84.62	88.46	100	100	48	28
IC95	2.44[0.66/14.11]	15.96[0.02/9.36578530641092e+63]	-[-/-]	-[-/-]	1.96[0.62/7.52]	1.18[0.15/7.74]
% NA	0	0	0	0	3.85	3.85

Table 3.4: Zarit outcome

	Non Cohab		Cohab	
	Bef	Aft	Bef	Aft
<b>low limit.</b>				
% cut off C	14.81	0	0	0
% cut off T	40.74	35.71	25	33.33
IC95	3.95[1.19/29.09]	-[-/-]	-[-/-]	-[-/-]
% NA	46.53	72.28	63.64	72.73
<b>IADL, (cogn.)</b>				
% cut off C	16.28	36.36	23.53	16.67
% cut off T	59.52	42.86	58.82	75
IC95	7.56[2.98/28.01]	0.09[0/3.47]	4.64[1.05/35.16]	4.47732122311045e+53[0/1.22572793892698e+56]
% NA	22.02	60.55	38.18	56.36
<b>func.</b>				
% cut off C	28.57	33.33	55.56	38.1
% cut off T	56	65.12	61.54	60
IC95	3.18[1.37/7.38]	1.28[0.19/8.23]	1.28[0.4/4.22]	1.43[0.25/6.38526227704575e+38]
% NA	38.51	47.2	23.19	40.58
<b>func., cogn.</b>				
% cut off C	48.39	50	48.78	64
% cut off T	41.94	35	68.29	52
IC95	0.77[0.26/2.15]	2.37[0.03/115.77]	2.26[0.93/6.25]	0.21[0/2.91]
% NA	18.42	47.37	14.58	47.92
<b>func., cogn., behav.</b>				
% cut off C	60	75	71.43	81.82
% cut off T	60	25	85.71	81.82
IC95	-[-/-]	-[-/-]	-[-/-]	-[-/-]
% NA	54.55	63.64	6.67	26.67

Table 3.5: DRS outcomes

	Bef	Aft
<b>low limit.</b>		
% cut off C	23.62	23.02
% cut off T	60.63	59.52
IC95	4.98[2.83/9.13]	1.27[0.5/2.61]
% NA	0	0.79
<b>IADL, (cogn.)</b>		
% cut off C	39	29.29
% cut off T	54	51.52
IC95	1.84[1.04/3.41]	1.29[0.55/3.19]
% NA	0	1
<b>func.</b>		
% cut off C	18.7	22.95
% cut off T	44.72	44.26
IC95	3.52[1.95/6.82]	0.67[0.3/1.48]
% NA	0	0.81
<b>func., cogn.</b>		
% cut off C	38.37	36.59
% cut off T	40.7	46.34
IC95	1.1[0.63/2.04]	1.11[0.24/4.1]
% NA	0	4.65
<b>func., cogn., behav.</b>		
% cut off C	69.23	69.23
% cut off T	73.08	73.08
IC95	1.21[0.35/4.4]	49.19[0/8.49500732993227e+132]
% NA	0	0

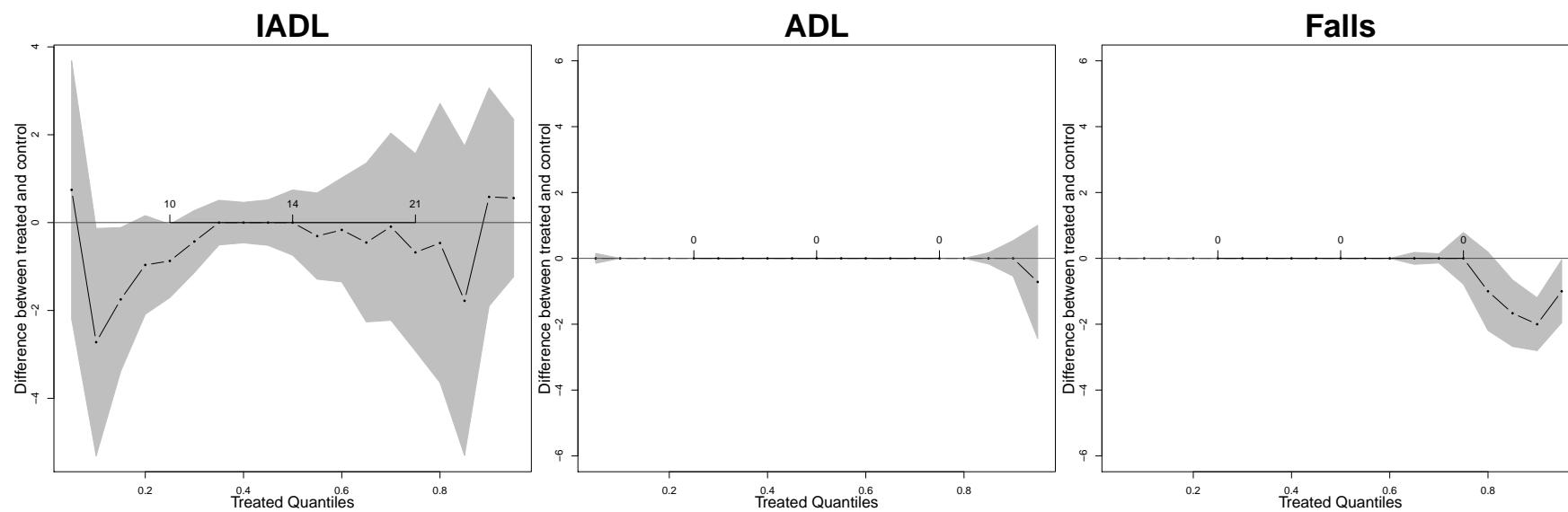


Figure 3.1: Regression quantile of functional clinical outcome (Low limitation)

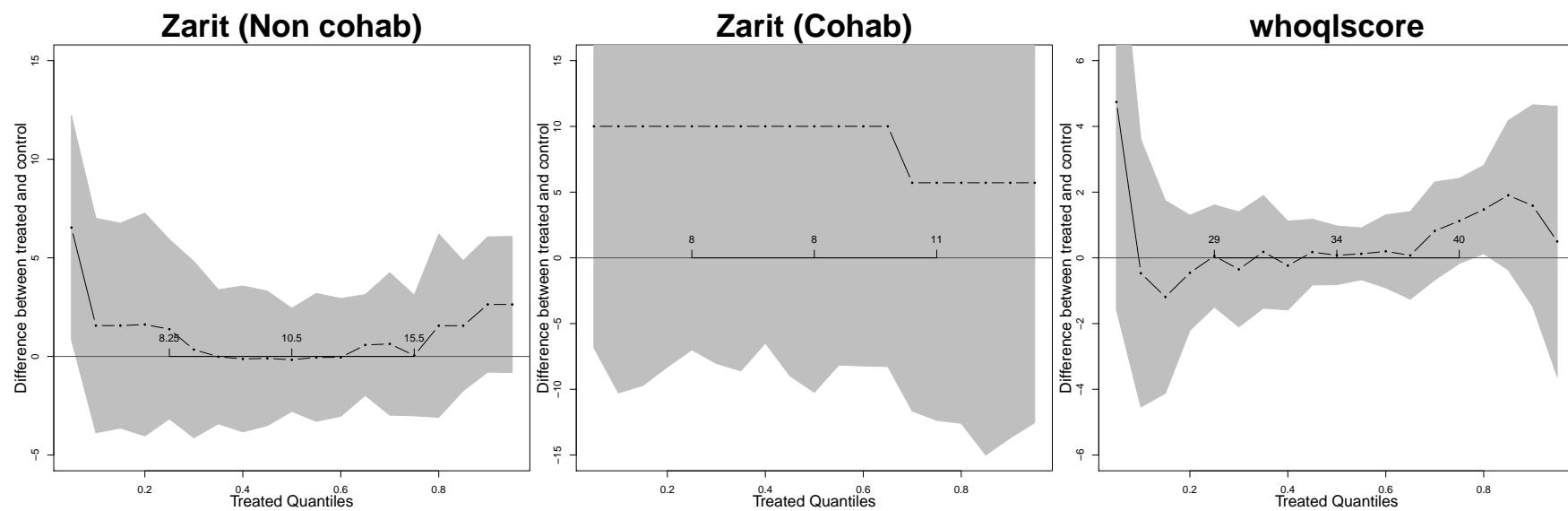


Figure 3.2: Regression quantile of burden and quality of life clinical outcome (Low limitation)

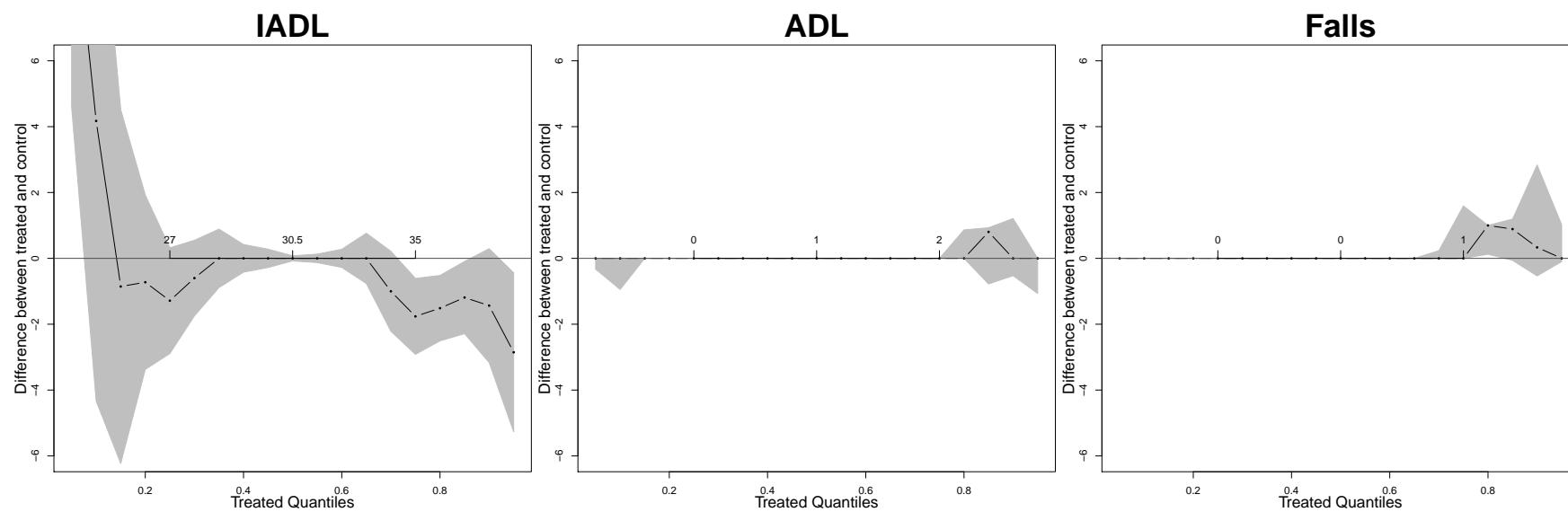


Figure 3.3: Regression quantile of functional clinical outcome (IADL (cogn.)

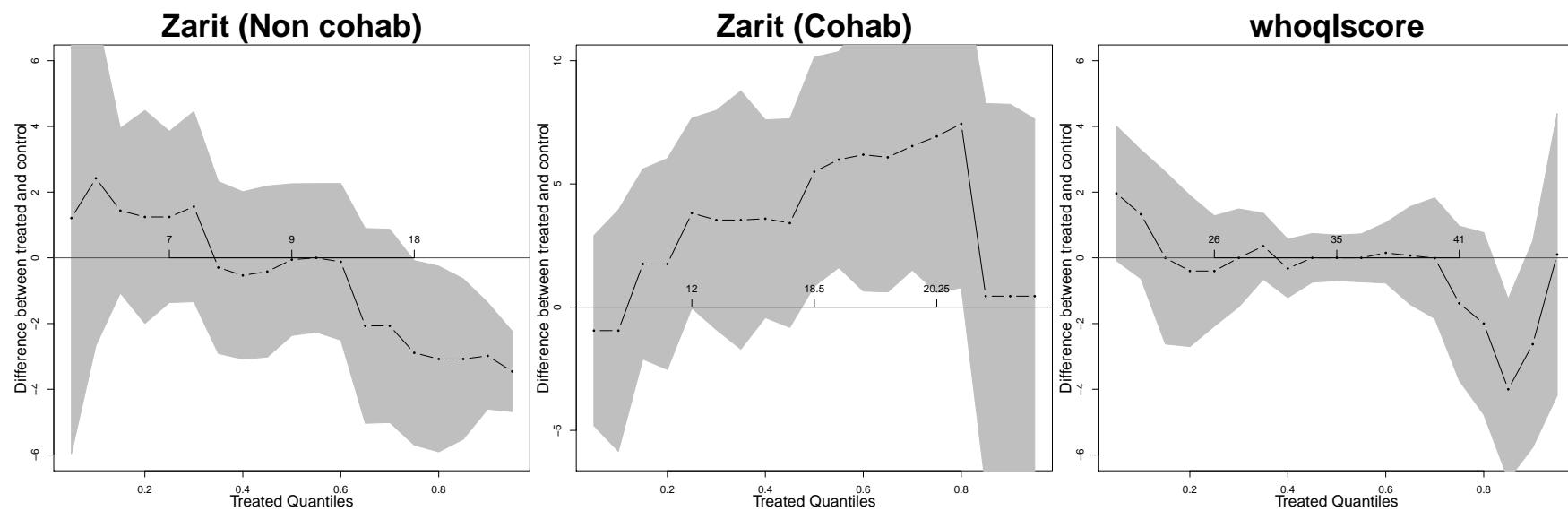


Figure 3.4: Regression quantile of burden and quality of life clinical outcome (IADL (cogn.)

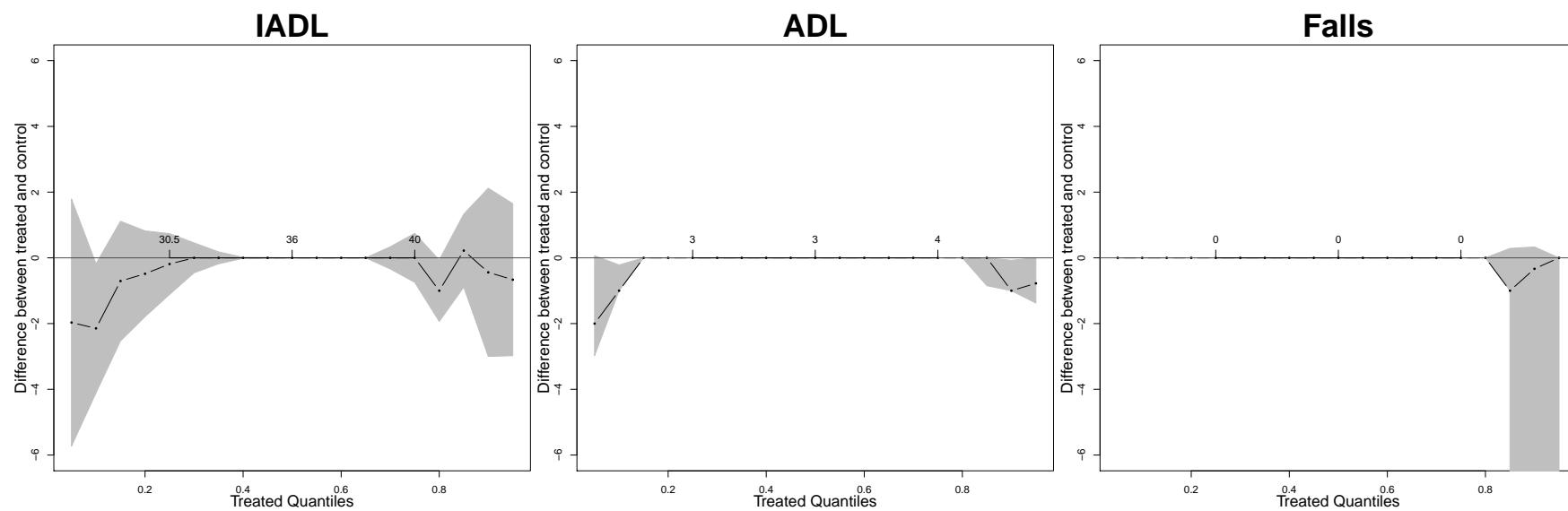


Figure 3.5: Regression quantile of functional clinical outcome (Func.)

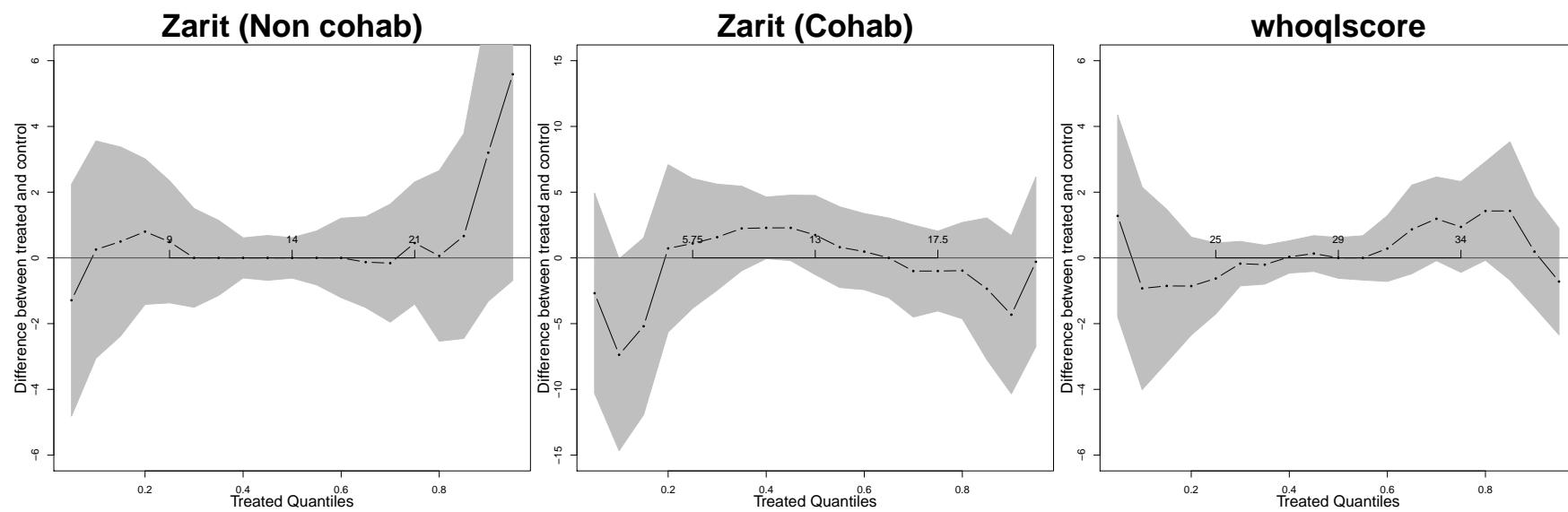


Figure 3.6: Regression quantile of burden and quality of life clinical outcome (Func.)

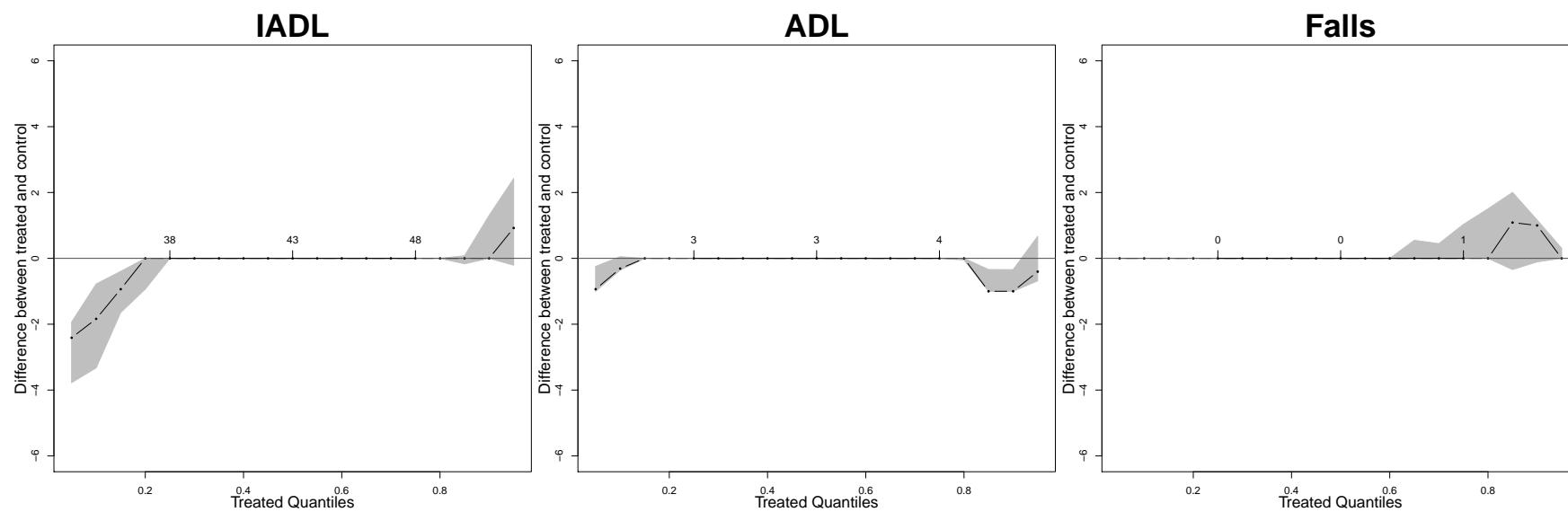


Figure 3.7: Regression quantile of functional clinical outcome (Func., cogn.)

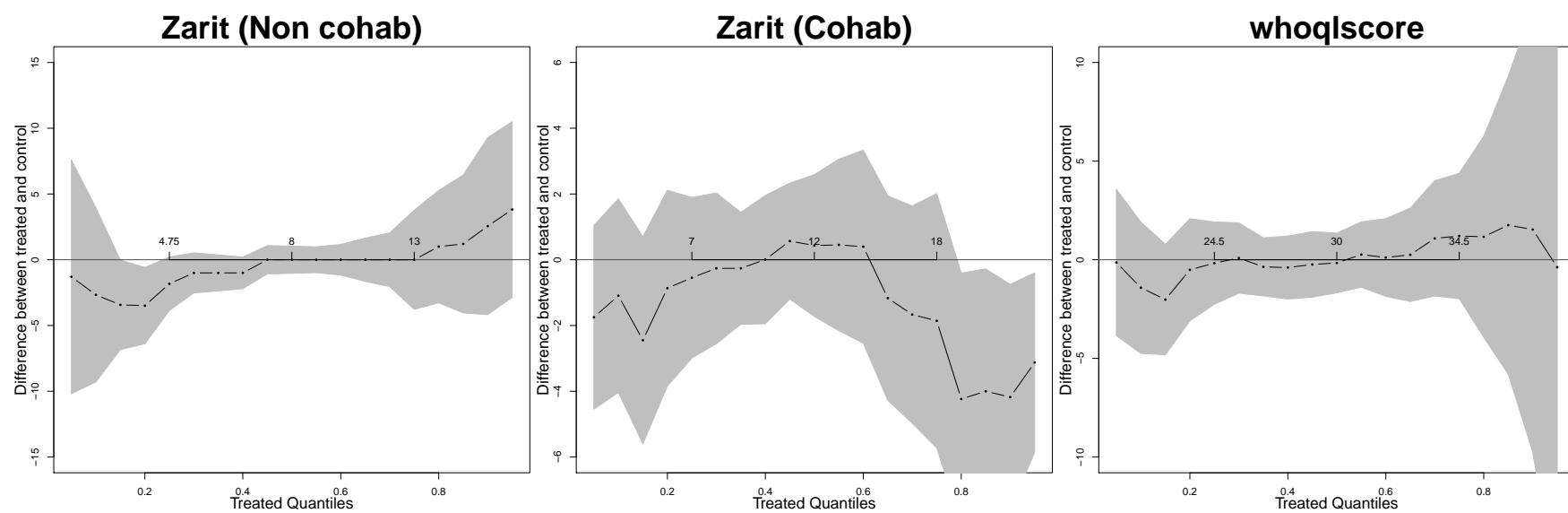


Figure 3.8: Regression quantile of burden and quality of life clinical outcome (Func., cogn.)

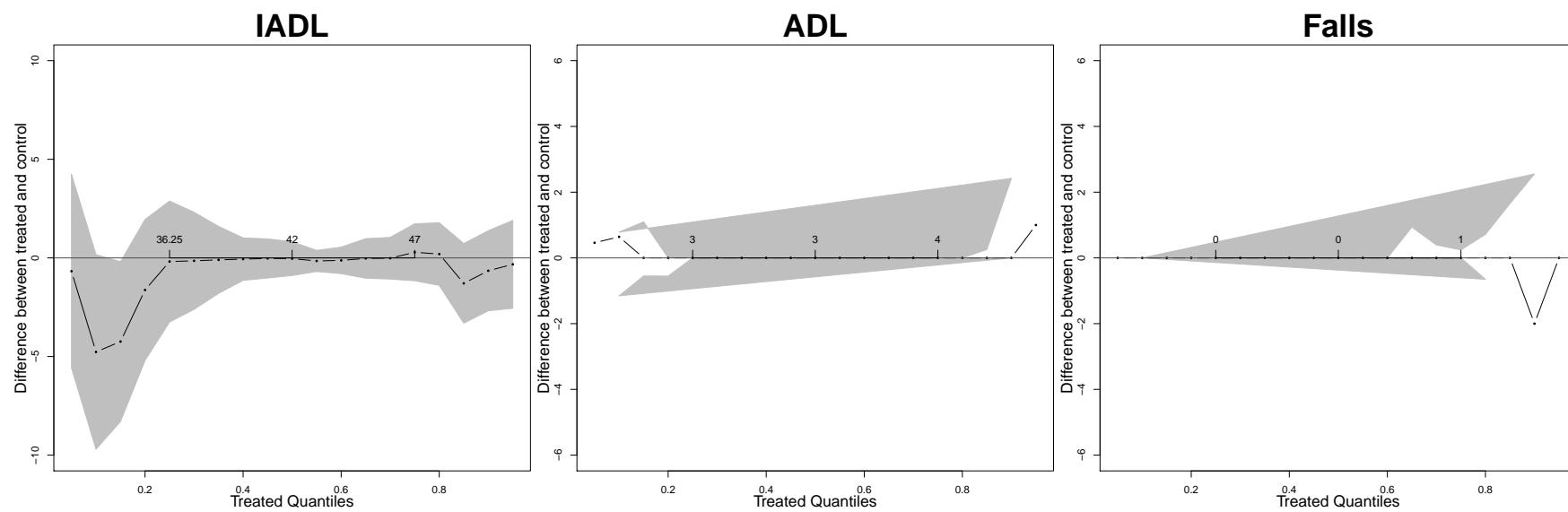


Figure 3.9: Regression quantile of functional clinical outcome (Func., cogn., behav.)

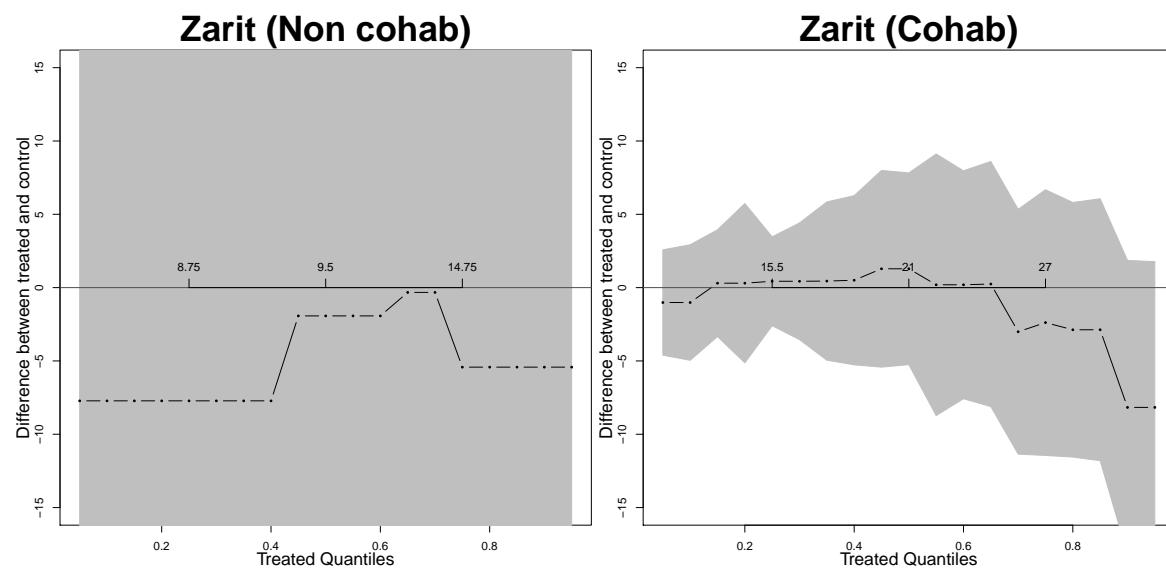


Figure 3.10: Regression quantile of burden and quality of life clinical outcome (Func., cogn., behav.)



### 3.1.4 Utilisation of services

#### Appropriate use of services

Table 3.6: IC differnce of mean between treated and control for the dependency IMA outcomes

	Nursing Care N months		Short term institu. N stays		Day care center N days	
	Use	Users	Use	Users	Use	Users
<b>low limit.</b>						
<b>IADL, (cogn.)</b>						
% / Med[IQR] C	88.24	6[6-6]	0	-	1.96	85[85-85]
% / Med[IQR] T	31.37	4[2-6]	0.65	2[1-2]	0	-
OR [IC95]	0.12[0.05/0.23]	-[-/-]			-[-/-]	
<b>func.</b>						
<b>func., cogn.</b>						
% / Med[IQR] C	97.3	6[6-6]	0	-	0.68	101[101-101]
% / Med[IQR] T	75	3[2-6]	3.38	2[1-2]	4.05	59[44-86]
OR [IC95]	0.23[0.02/0.81]	-[-/-]			-[-/-]	
<b>func., cogn., behav.</b>						
% / Med[IQR] C	98.81	6[5-6]	0	-	3.57	81[81-129]
% / Med[IQR] T	80.95	4[3-6]	7.14	2[1-2]	3.57	51[34-67]
OR [IC95]	0.34[0/1.47]	-[-/-]			-[-/-]	

Table 3.7: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated at inclusion)

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or	7.6(4.7)	92.4(57.5)	13.8(4.1)	86.2(25.5)	-(0)	-(0)	50(1.2)	50(1.2)	-(0)	-(0)
Incont										
Low lim,										
ADL &	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
Incont										
ADL lim	35.7(3.9)	64.3(7.1)	37.1(13.3)	62.9(22.4)	34.1(11.5)	65.9(22.1)	52.2(14.1)	47.8(12.9)	20(4.2)	80(16.7)
Incont	0(0)	100(18.1)	14.3(1)	85.7(6.1)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
ADL &										
Incont	40(3.1)	60(4.7)	45(9.2)	55(11.2)	36.8(17.2)	63.2(29.5)	39.6(22.4)	60.4(34.1)	40(25)	60(37.5)
lim										
ADL ?										
No Incont	0(0)	100(0.8)	0(0)	100(7.1)	33.3(6.6)	66.7(13.1)	58.3(8.2)	41.7(5.9)	25(4.2)	75(12.5)
tot	11.8(11.8)	88.2(88.2)	27.6(27.6)	72.4(72.4)	35.2(35.2)	64.8(64.8)	45.9(45.9)	54.1(54.1)	33.3(33.3)	66.7(66.7)

Table 3.8: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Control at inclusion)

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or	23.6(10.2)	76.4(33.1)	36.8(7.1)	63.2(12.2)	-(0)	-(0)	0(0)	100(2.4)	100(8.3)	0(0)
Incont										
Low lim,										
ADL &	100(0.8)	0(0)	0(0)	100(4.1)	-(0)	-(0)	100(1.2)	0(0)	-(0)	-(0)
Incont										
ADL lim	57.1(12.6)	42.9(9.4)	64.9(24.5)	35.1(13.3)	92(18.9)	8(1.6)	100(7.1)	0(0)	50(20.8)	50(20.8)
Incont	58.3(5.5)	41.7(3.9)	20(1)	80(4.1)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
ADL &										
Incont	95.5(16.5)	4.5(0.8)	60.9(14.3)	39.1(9.2)	100(47.5)	0(0)	84.7(71.8)	15.3(12.9)	58.3(29.2)	41.7(20.8)
lim										
ADL ?										
No Incont	11.1(0.8)	88.9(6.3)	90(9.2)	10(1)	87.2(27.9)	12.8(4.1)	100(4.7)	0(0)	-(0)	-(0)
tot	46.5(46.5)	53.5(53.5)	56.1(56.1)	43.9(43.9)	94.3(94.3)	5.7(5.7)	84.7(84.7)	15.3(15.3)	58.3(58.3)	41.7(41.7)

Table 3.9: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated second eval)

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or	25.3(15.7)	74.7(46.5)	48.3(14.3)	51.7(15.3)	-(0)	-(0)	50(1.2)	50(1.2)	-(0)	-(0)
Incont										
Low lim,										
ADL &	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
Incont										
ADL lim	71.4(7.9)	28.6(3.1)	65.7(23.5)	34.3(12.2)	78(26.2)	22(7.4)	73.9(20)	26.1(7.1)	60(12.5)	40(8.3)
Incont	39.1(7.1)	60.9(11)	0(0)	100(7.1)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
ADL &										
Incont	60(4.7)	40(3.1)	80(16.3)	20(4.1)	87.7(41)	12.3(5.7)	83.3(47.1)	16.7(9.4)	73.3(45.8)	26.7(16.7)
lim										
ADL ?										
No Incont	100(0.8)	0(0)	71.4(5.1)	28.6(2)	75(14.8)	25(4.9)	66.7(9.4)	33.3(4.7)	75(12.5)	25(4.2)
tot	36.2(36.2)	63.8(63.8)	59.2(59.2)	40.8(40.8)	82(82)	18(18)	77.6(77.6)	22.4(22.4)	70.8(70.8)	29.2(29.2)

Table 3.10: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Control second eval)

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or	27.3(11.8)	72.7(31.5)	63.2(12.2)	36.8(7.1)	-(0)	-(0)	100(2.4)	0(0)	100(8.3)	0(0)
Incont										
Low lim,										
ADL &	100(0.8)	0(0)	100(4.1)	0(0)	-(0)	-(0)	100(1.2)	0(0)	-(0)	-(0)
Incont										
ADL lim	100(22)	0(0)	100(37.8)	0(0)	100(20.5)	0(0)	100(7.1)	0(0)	100(41.7)	0(0)
Incont	100(9.4)	0(0)	100(5.1)	0(0)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
ADL &										
Incont	95.5(16.5)	4.5(0.8)	87(20.4)	13(3.1)	100(47.5)	0(0)	100(84.7)	0(0)	100(50)	0(0)
lim										
ADL ?										
No Incont	100(7.1)	0(0)	100(10.2)	0(0)	100(32)	0(0)	100(4.7)	0(0)	-(0)	-(0)
tot	67.7(67.7)	32.3(32.3)	89.8(89.8)	10.2(10.2)	100(100)	0(0)	100(100)	0(0)	100(100)	0(0)

## Inappropriate use of services

Table 3.11: IC difference of mean between treated and control for the low value IMA outcomes

	Emergency N visits		GP out-of hours N visits		Hospilisation N visits	
	Use	Users	Use	Users	Use	Users
<b>low limit.</b>						
% / Med[IQR] C	30.07	2[2-6]	3.92	2[2-2]	29.41	1[1-1]
% / Med[IQR] T	14.38	2[1-2]	7.84	2[1-4]	26.14	1[1-1]
OR [IC95]	0.36[0.19/0.63]		2.64[0.92/10.32]		0.71[0.42/1.19]	
<b>IADL, (cogn.)</b>						
% / Med[IQR] C	20.83	3[2-4]	8.33	2[2-2]	18.75	1[1-2]
% / Med[IQR] T	12.5	2[2-2]	12.5	2[1-2]	20.83	1[1-1]
OR [IC95]	0.5[0.19/1.18]		1.36[0.52/4.28]		0.94[0.43/2.15]	
<b>func.</b>						
% / Med[IQR] C	13.51	2[2-2]	10.81	2[2-2]	14.86	1[1-1]
% / Med[IQR] T	14.86	2[2-2]	10.14	2[2-2]	22.97	1[1-1]
OR [IC95]	1.19[0.58/2.4]		0.7[0.29/1.6]		1.5[0.79/2.81]	
<b>func., cogn.</b>						
% / Med[IQR] C	23.81	2[2-2]	13.1	2[2-3]	25	1[1-2]
% / Med[IQR] T	21.43	2[2-2]	22.62	2[2-4]	33.33	1[1-2]
OR [IC95]	1[0.46/2.33]		1.9[0.81/5.05]		1.84[0.94/4.08]	
<b>func., cogn., behav.</b>						
% / Med[IQR] C	32.43	2[2-6]	8.11	4[3-4]	27.03	1[1-1]
% / Med[IQR] T	18.92	2[2-2]	13.51	2[1-2]	21.62	1[1-1]
OR [IC95]	0.73[0.17/2.92]		-[-/-]		1.01[0.24/4.26]	

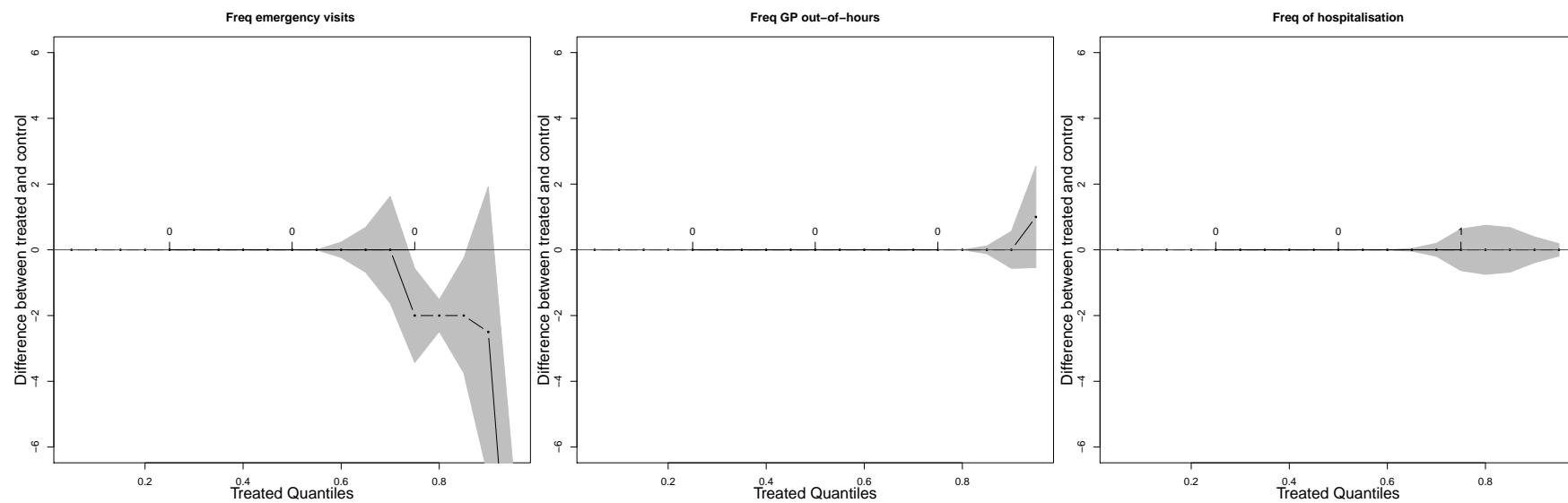


Figure 3.11: Regression quantile of inappropriate use of services (Low limitation)

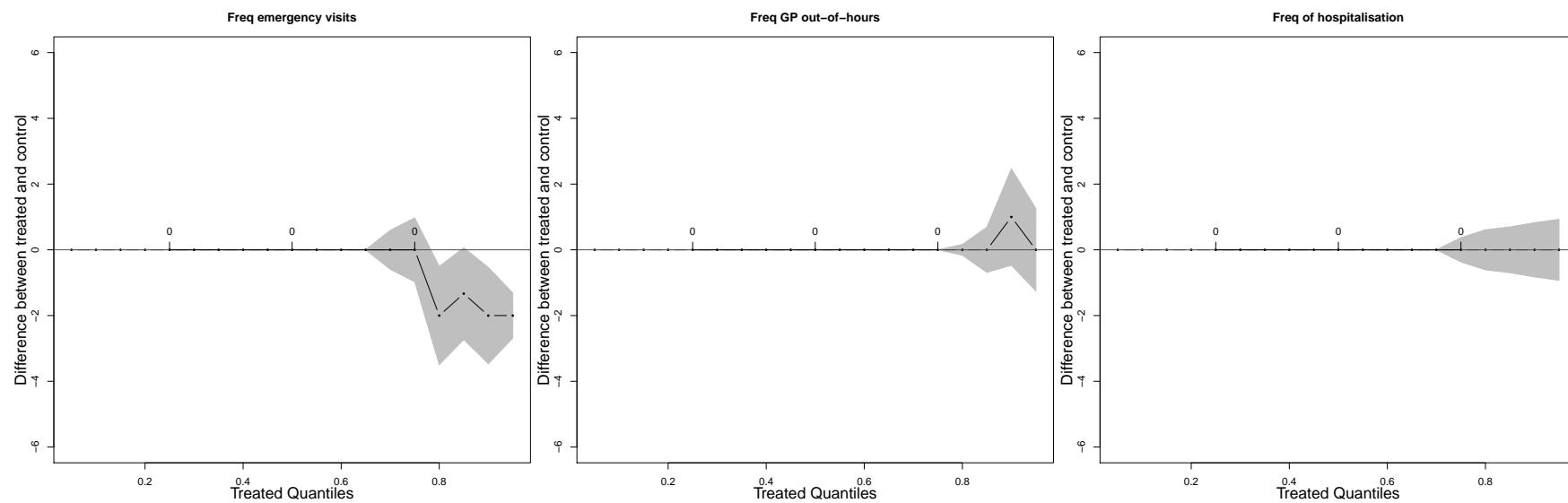


Figure 3.12: Regression quantile of inappropriate use of services (IADL (cogn.))

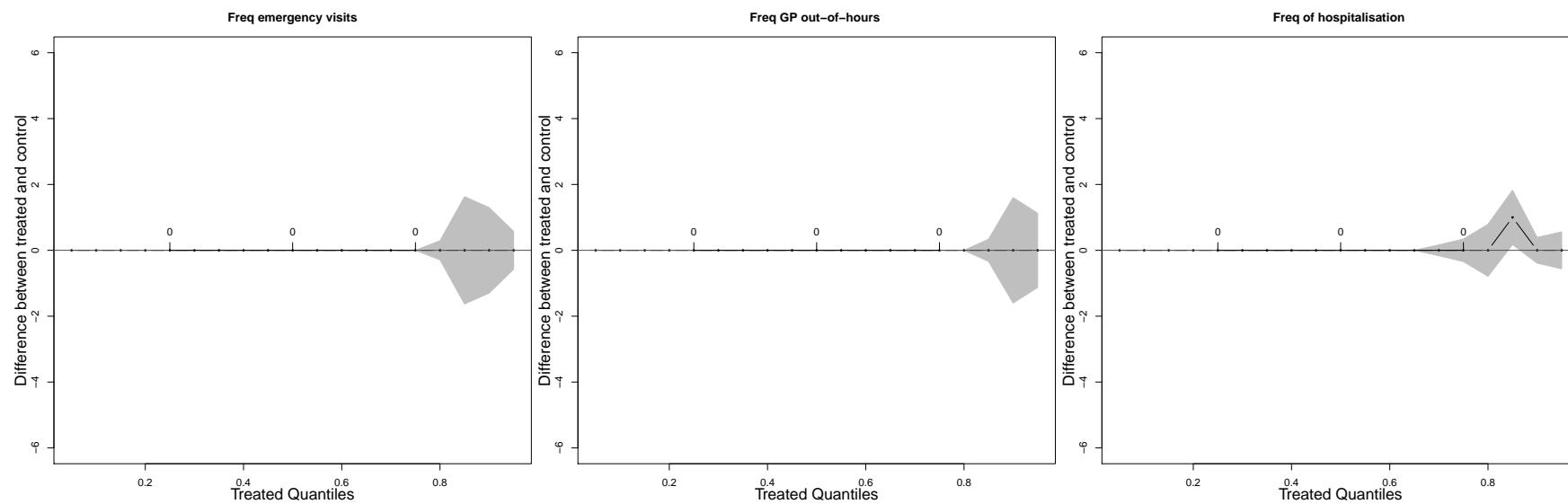


Figure 3.13: Regression quantile of inappropriate use of services (Func.)

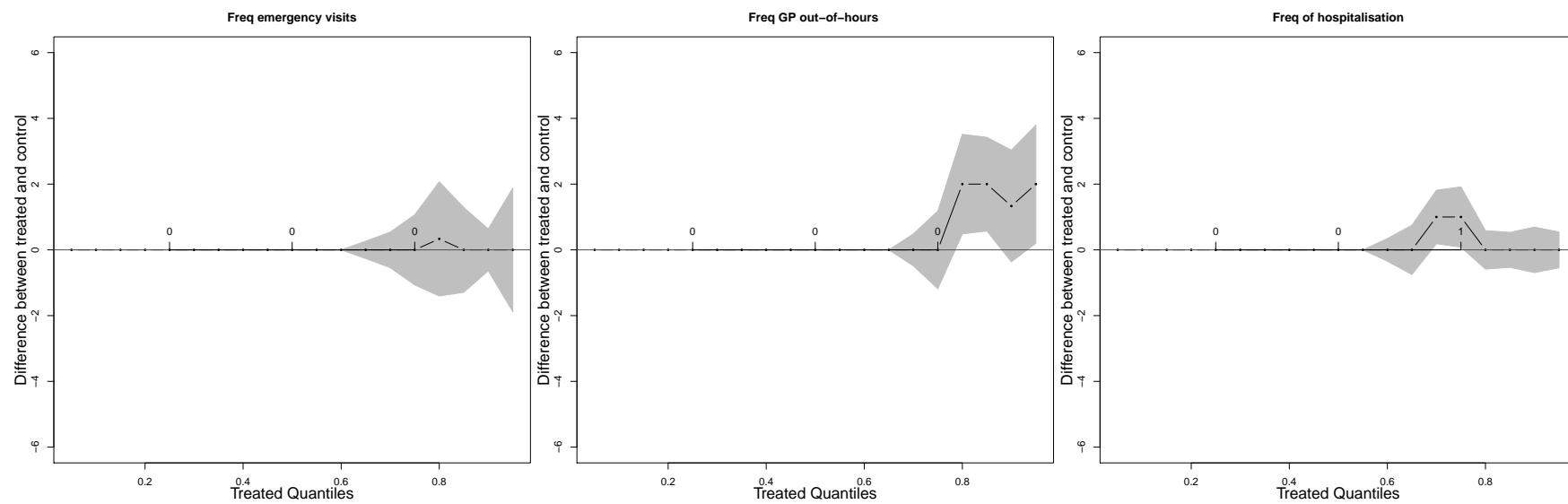


Figure 3.14: Regression quantile of inappropriate use of services (Func., cogn.)

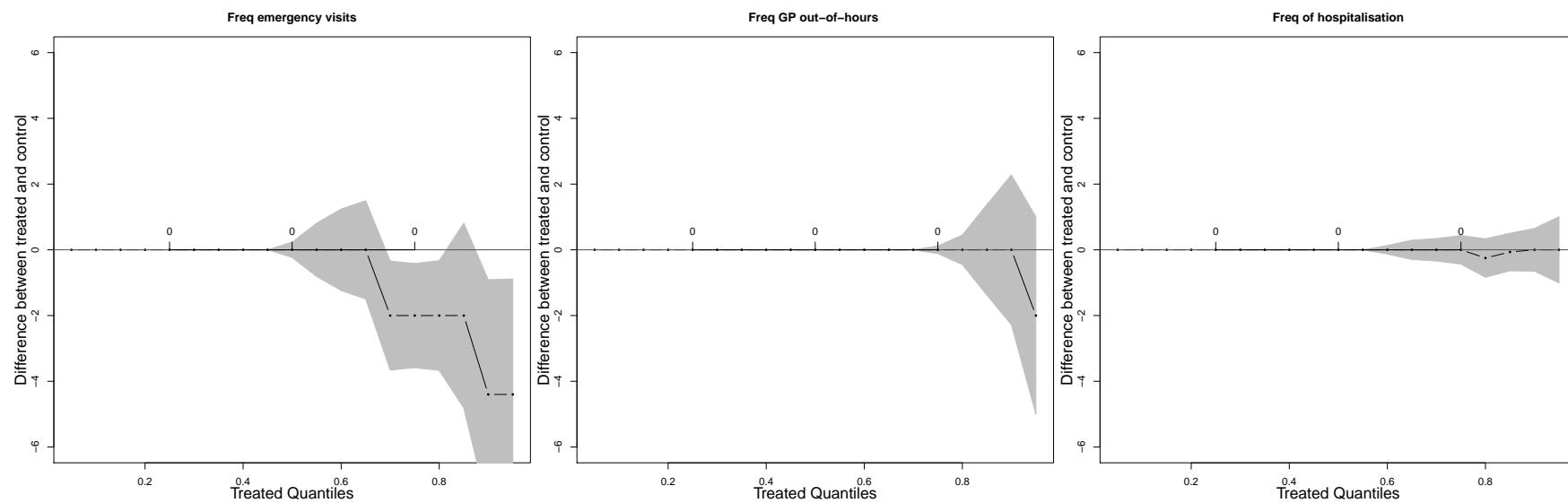


Figure 3.15: Regression quantile of inappropriate use of services (Func., cogn., behav.)

### Definitive institutionalisation and death

Table 3.12: IC of ratio of incidence rate between treated and control for the death and the definitive institutionalisation

	Definitive institu.	Death
<b>low</b>		
<b>limit.</b>		
IR T	0.0078	0.0033
IR C	0.0056	0
IC95	0.44/4.41	NaN/Inf
<b>IADL, (cogn.)</b>		
IR T	0.0129	0.0018
IR C	0.0054	0.0071
IC95	0.61/9.19	0.03/2.24
<b>func.</b>		
IR T	0.007	0.0057
IR C	0.0011	0.0046
IC95	0.74/51.13	0.34/4.68
<b>func., cogn.</b>		
IR T	0.022	0.0144
IR C	0.0243	0.0124
IC95	0.38/2.13	0.39/3.44
<b>func., cogn., behav.</b>		
IR T	0.0199	0.0093
IR C	0.0201	0.0246
IC95	0.25/3.96	0.07/1.94



### 3.1.5 Health care costs linked to disability for the NIHDI

Table 3.13: Cost of health care services and technical equipment

	Interv.		Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>												
Mean T	0	128.9	35.3	136	21	45.3	5.4	5.7	1.7	4.8	2.9	0.7
Mean C	0	0	281.3	610.8	44.7	73.5	1.6	1.8	16.1	11.2	8.7	0
IC95	0/0	124/134	-300/-190	-610/-343	-40/-8	-56/-4	-3/13	-2/11	-22/-7	-14/1	-16/3	0/2
<b>IADL</b>												
(cogn.)												
Mean T	0	142	54.9	256.3	33.9	57.8	4.3	1.6	0.7	8.9	0	11.6
Mean C	0	0	249.4	714.3	61.9	148.5	3	24.4	21.7	18.1	0	0.3
IC95	0/0	131/152	-259/-134	-656/-297	-48/-6	-135/-44	-4/9	-42/-7	-37/-8	-24/5	0/0	0/27
<b>Func.</b>												
Mean T	0	224.3	228.2	748.1	64.8	124.6	5.3	30.3	18.6	52.6	0.1	3
Mean C	0	0	757.1	1304.8	104.3	140.9	10.1	72	66.8	15.7	5.9	3
IC95	0/0	213/234	-670/-388	-730/-354	-73/-3	-60/27	-16/4	-147/31	-65/-31	20/55	-15/0	-9/9
<b>Func.</b>												
cogn.												
Mean T	0	254.9	265.5	1139.1	53.8	168.7	11.6	47.6	25.6	70.8	2.6	7.9
Mean C	0	0	1087.6	2030.6	102.8	210.3	0	27.8	87.4	29.1	0	10.5
IC95	0/0	234/273	-1035/-608	-1179/-567	-93/-5	-117/29	0/35	-18/64	-83/-40	19/67	0/8	-21/16
<b>Func. cogn.</b>												
behav												
Mean T	0	223.3	150.3	846.3	37.9	107.9	0	52.2	16.9	59.2	0	6.1
Mean C	0	0	523.7	1249.5	28.3	107.7	1.5	4.5	35.6	31.6	0	3.9
IC95	0/0	202/241	-684/-127	-837/-2	-19/38	-70/70	-4/0	6/108	-48/11	-6/66	0/0	-6/17

Table 3.14: Average costs of other health care services for six months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>												
Mean T	0	0	12.3	9.6	20.9	20.9	45.3	1.7	5.4	491.4	490.7	
Mean C	0	13.1	9.7	0	36.9	67.1	96.2	1.1	2.3	588.6	690.7	
IC95	0/0	-30.5/0	-12.7/19	2.7/19	-52.6/19	-61.4/-32	-68.7/-33	-1/2	0.1/6	-366.5/162	-502.2/96	
<b>IADL (cogn.)</b>												
Mean T	0	0	15.3	11.9	39.9	21.4	70.7	3.4	5.7	967.2	568.1	
Mean C	0	18.2	9.4	9.1	30.2	44.3	72.1	2.5	4	407.9	402.7	
IC95	0/0	-43.4/-1	-14.2/26	-14.9/19	-38.4/56	-34/-12	-45.4/73	-1.7/4	-1.8/5	202/963	-153.1/512	
<b>Func.</b>												
Mean T	12.6	19.9	39.9	26.9	31	18.4	54.3	1.7	2.2	841.3	522.7	
Mean C	2.7	5.4	5.2	8.9	1.7	62	91	3.5	4.5	361.8	359.9	
IC95	-2.8/27	-5.8/37	13.1/58	-5.4/41	4.4/63	-56/-32	-51.1/-22	-3.9/0	-5.5/1	249/739	-123.2/452	
<b>Func. cogn.</b>												
Mean T	1.5	14.3	41.6	44.7	99.6	14.3	59.6	0.6	3.3	755.5	857.1	
Mean C	27.2	32.2	13.1	23.6	92	58.2	107.1	4.5	4.3	361.4	736.9	
IC95	-58.9/2	-66.1/18	4.3/60	-6.2/55	-94.8/104	-57.1/-30	-71/-26	-6.8/-1	-4.5/2	-17.4/808	-319.8/560	
<b>Func. cogn. behav</b>												
Mean T	0	0.4	33.9	21.1	75.4	22.8	47.7	0.6	2.2	930.1	335	
Mean C	41.2	77.3	16.4	30.6	6.3	34.8	78.1	2.9	7.3	684.9	1522.8	
IC95	-103.1/0	-192.4/0	-19.6/65	-56.2/29	2.3/153	-31.4/8	-65.4/8	-5/0	-10.3/0	-377.1/1183	-2771.7/-35	

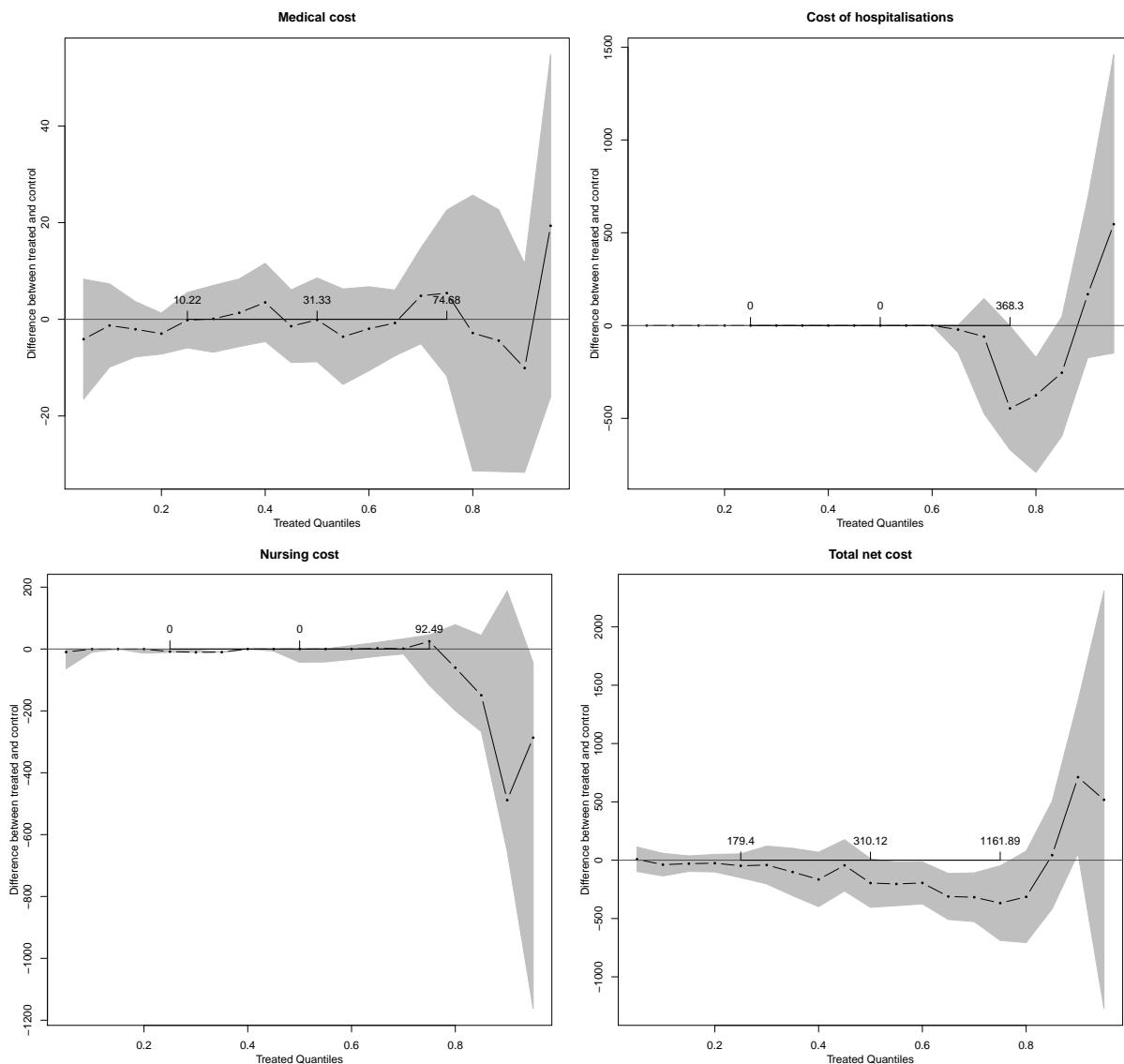


Figure 3.16: Graphs of the differences of costs between treated and control, **for the NIHDI, for the group of low limitations**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

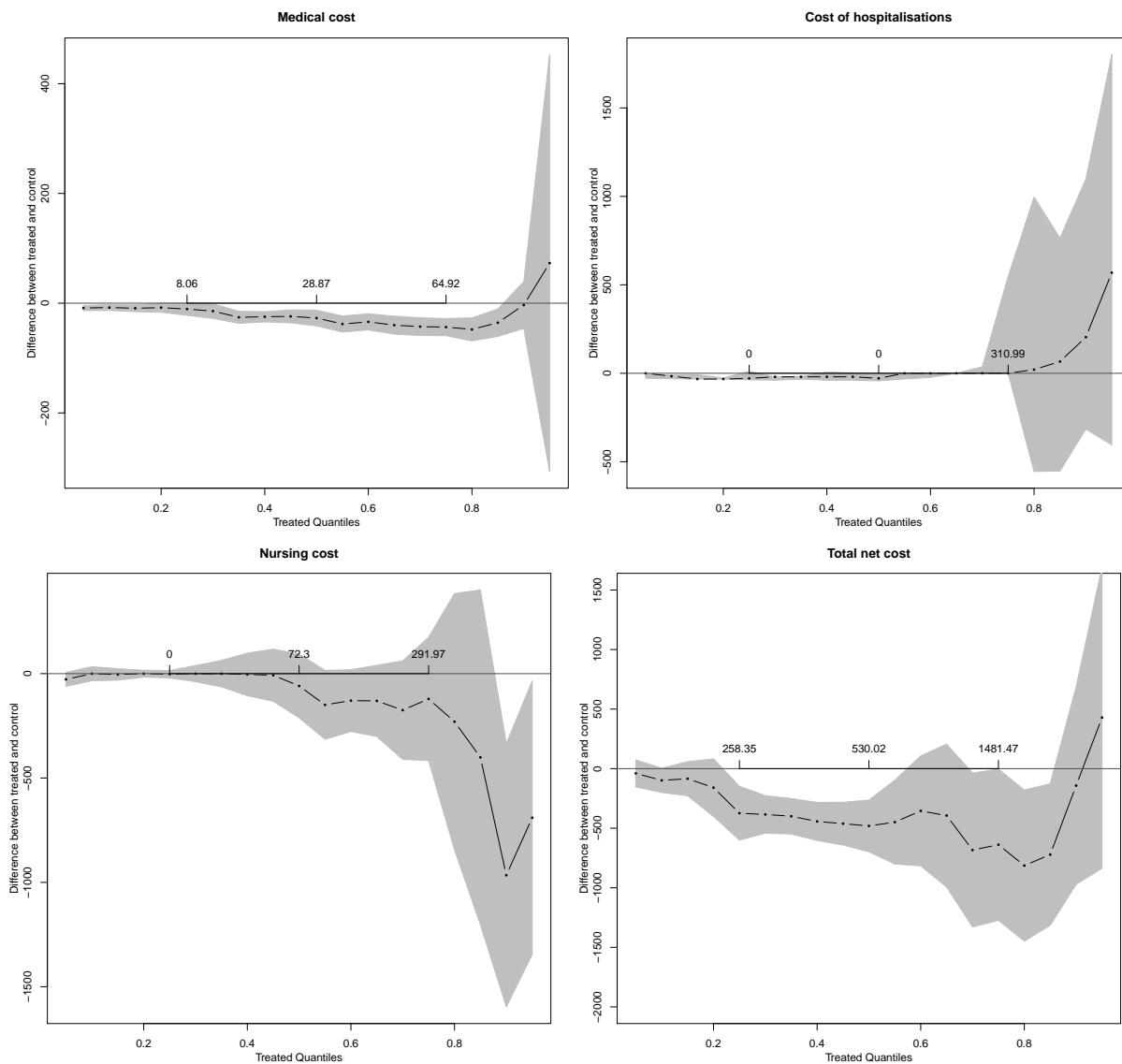


Figure 3.17: Graphs of the differences of costs between treated and control, **for the NHDI, for the group of IADL limitations (cognitive impairment)**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

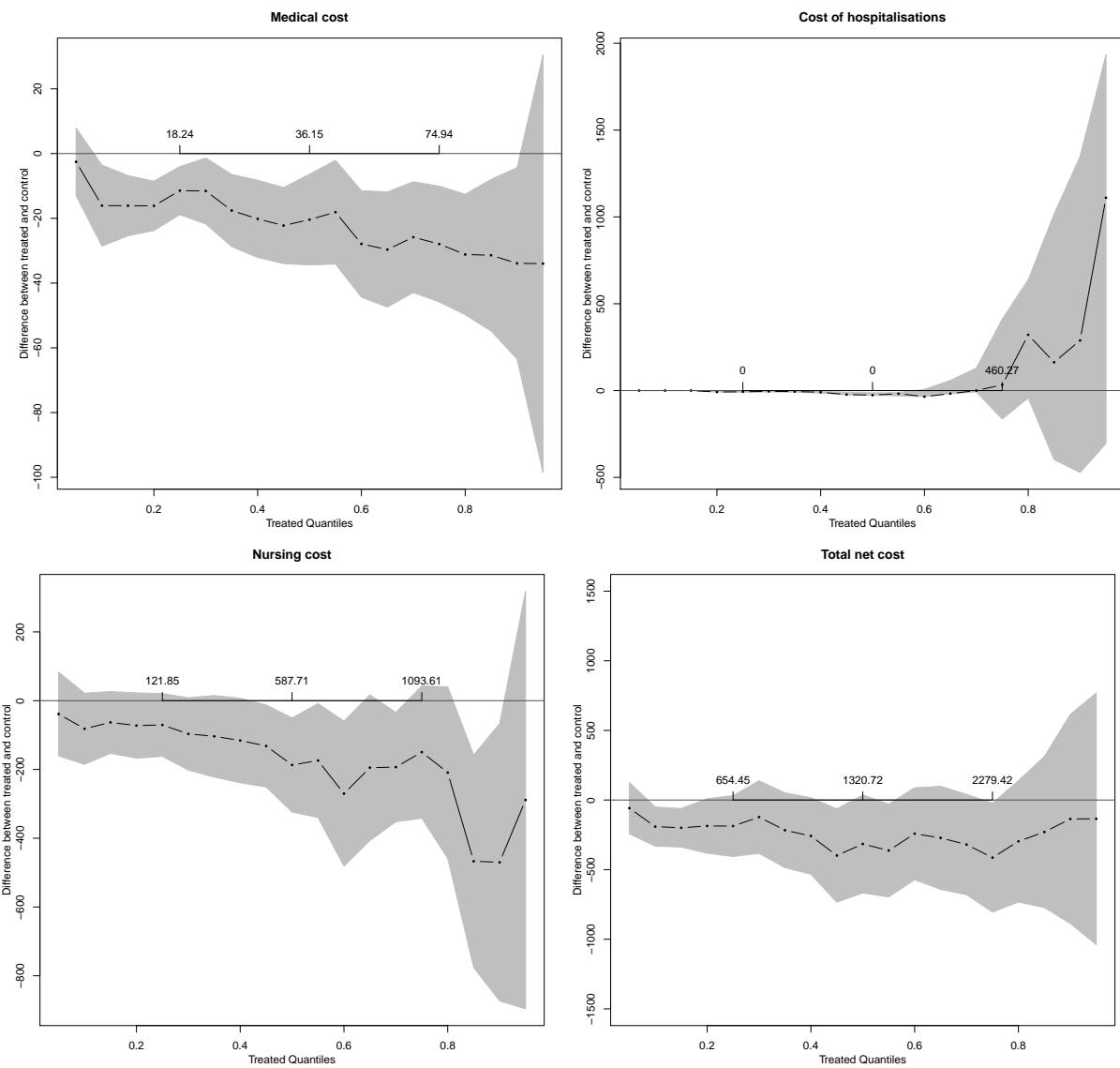


Figure 3.18: Graphs of the differences of costs between treated and control, **for the NIHDI, for the group of functional limitations**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

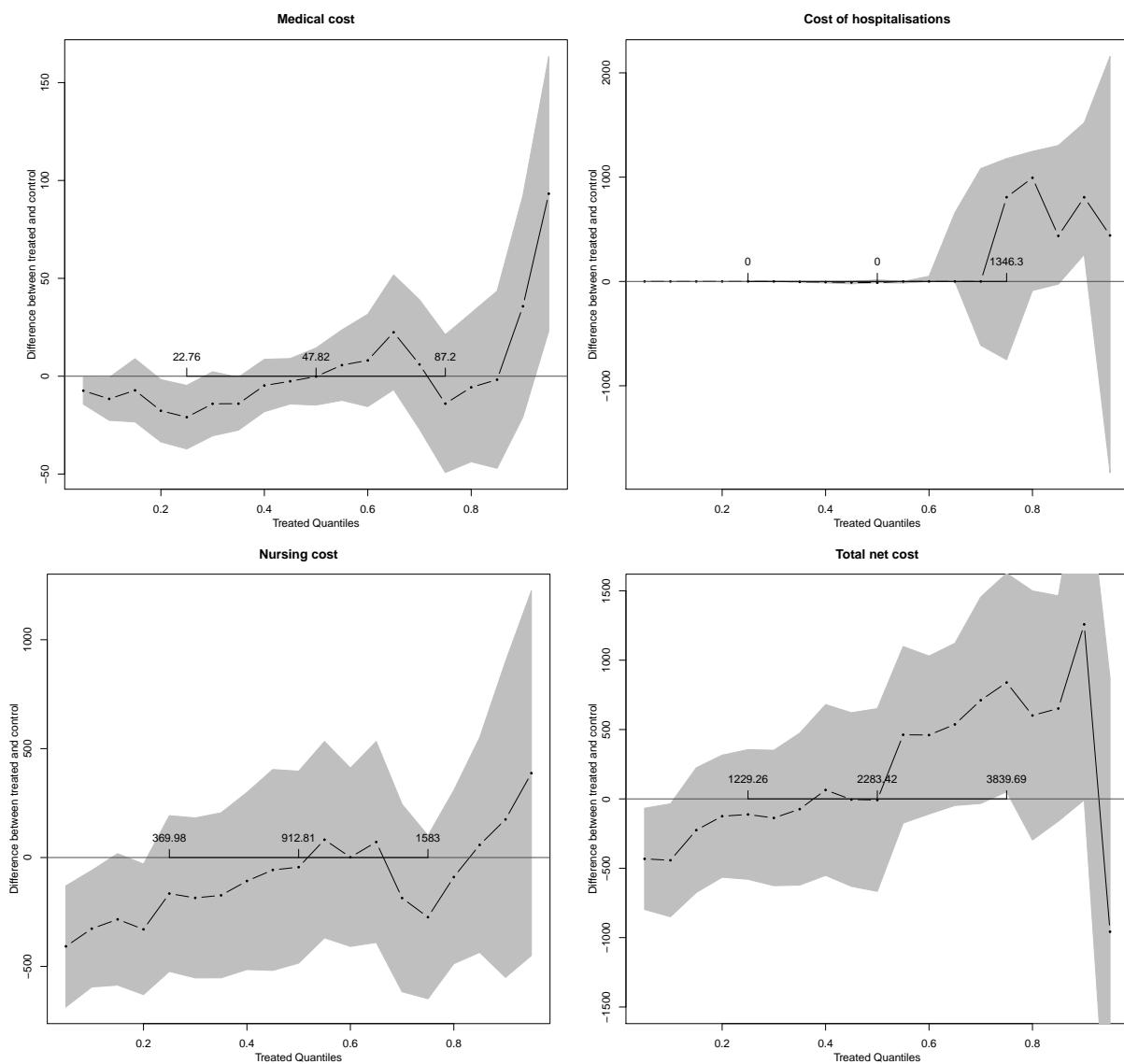


Figure 3.19: Graphs of the differences of costs between treated and control, **for the NHDI, for the group of functional limitations and cognitive impairment**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

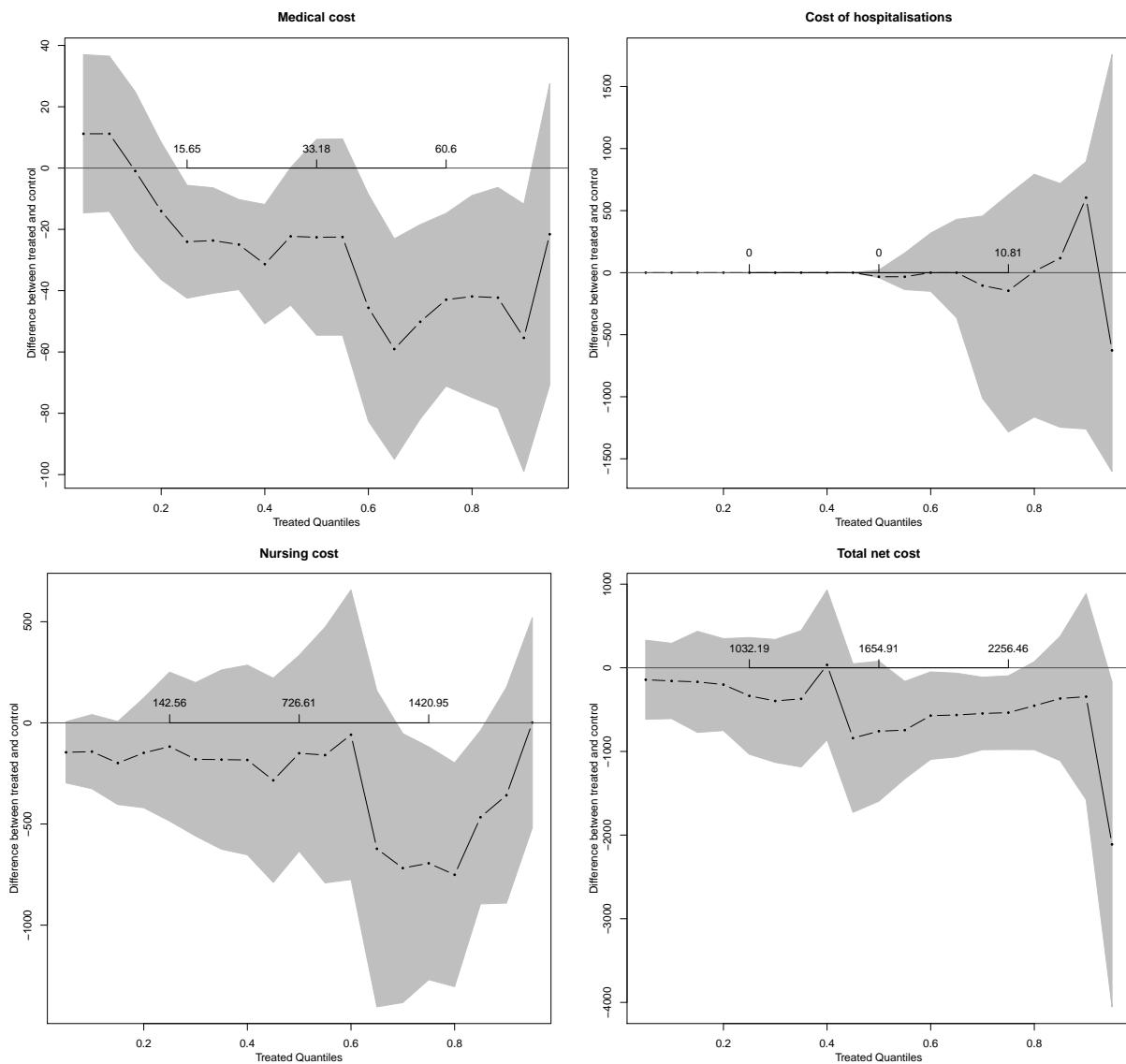


Figure 3.20: Graphs of the differences of costs between treated and control, **for the NIHDI, for the group of functional limitations, cognitive impairment and behavioural problems**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)



### 3.1.6 Health care costs linked to disability for the patients

Table 3.15: Average costs of health care services and technical equipment for six months (per month, per patient)

	Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>										
Mean T	0.3	1.1	4	9	0	0	23.5	23.5	4.5	0
Mean C	4.6	6.7	10.3	13.1	0	0.2	34	34	10.3	0
IC95	-7.7/-1.5	-10.8/-1.3	-10.6/-2.1	-9.9/1.7	0/0	-0.4/0	-19.6/0	-19.6/-0.7	-18/8.3	0/0.1
<b>IADL</b>										
(cogn.)										
Mean T	2	5.9	8.3	12.5	0	0	31.2	31.2	0	13.5
Mean C	9.2	26.5	16.5	32.6	0	0.1	32.3	32.3	0	0.1
IC95	-13.9/-1.2	-35.5/-8.2	-15.4/-2	-29.9/-10.8	0/0	-0.3/0	-14.7/12.5	-14.6/12.5	0/0	-0.1/38.8
<b>Func.</b>										
Mean T	1.3	1.3	9.6	17.1	0	1.7	46.6	46.7	0.2	0.2
Mean C	4.4	5.7	17.4	33.8	0	0	37.8	37.9	0.2	1.3
IC95	-7.6/0.2	-9.9/-0.5	-14.5/-0.5	-29.4/-5.6	-0.1/0	0/4.8	-2/19.6	-2/19.7	-0.6/0.5	-3.9/0.4
<b>Func.</b>										
cogn.										
Mean T	2.8	5.5	7.2	21.3	0	0	70.2	70.2	2.6	0.6
Mean C	0.9	15.7	15	36.6	0	0	71.4	71.7	0	4.4
IC95	-1.6/6.1	-24.5/3.4	-15.4/-0.2	-33.7/0	0/0	0/0	-15.5/11.9	-16.7/14.3	0/7.8	-10.8/1
<b>Func. cogn.</b>										
behav										
Mean T	7	9.7	5.9	15.3	0	0	62.2	62.2	0	8.1
Mean C	3.9	26.1	3.5	21.7	0.1	0	56.8	56.9	0	0
IC95	-7/15.9	-38.9/2.6	-2.3/7.5	-19.4/8.7	-0.2/0	0/0	-18.9/29.7	-16.3/29.6	0/0	0/24.3

Table 3.16: Average cost of other health care services for six months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>												
Mean T	0	0	14.6	11.6	22.4	4.3	7.2	0.3	1	14.8	18.9	
Mean C	0	4.4	8	0	38.5	8.9	12.6	0.1	0.3	37	37.5	
IC95	0/0	-8.9/0	-9.5/29.6	3.3/22.1	-56.5/21.3	-7.2/-2.2	-8.8/-2.3	-0.1/0.5	0.2/1.2	-41/-6.3	-46.3/3.7	
<b>IADL</b>												
(cogn.)												
Mean T	0	0	16.1	13	45.2	4.5	8.7	0.7	1	41.4	27	
Mean C	0	6.3	9.3	8.8	31.8	7.7	12.5	0.8	1.2	27.7	30.1	
IC95	0/0	-15/-0.4	-12.9/26.4	-12.7/19.5	-44.7/66.5	-5.7/-0.5	-8.5/2	-0.7/0.6	-0.9/0.6	-14.5/41.5	-29.5/21.8	
<b>Func.</b>												
Mean T	4.3	6.8	35.3	21.6	39.1	3.2	7.2	0.7	0.3	57.2	22.4	
Mean C	0.9	1.8	4.4	6.3	4.1	9	12.7	0.5	0.6	17.4	24.4	
IC95	-1/9	-1.1/12.2	13.6/51.9	-2.5/34	3.8/74.7	-8.5/-3.2	-8.1/-2.7	-0.4/1.2	-0.7/0.1	14.5/71.6	-35.3/21.7	
<b>Func. cogn.</b>												
<b>behav</b>												
Mean T	0	0.2	22.7	20.1	89.2	3	6.2	0.2	0.6	37.4	8	
Mean C	13.9	26.1	6.9	21.1	7.4	3.2	10.9	0.3	0.6	55.5	82.5	
IC95	-34.8/0	-65/0	-13.9/49.1	-41.6/34.8	4.2/181.3	-3.6/3.5	-9.9/0.9	-0.4/0.3	-0.8/0.8	-60.7/31.3	-152.5/-19.2	

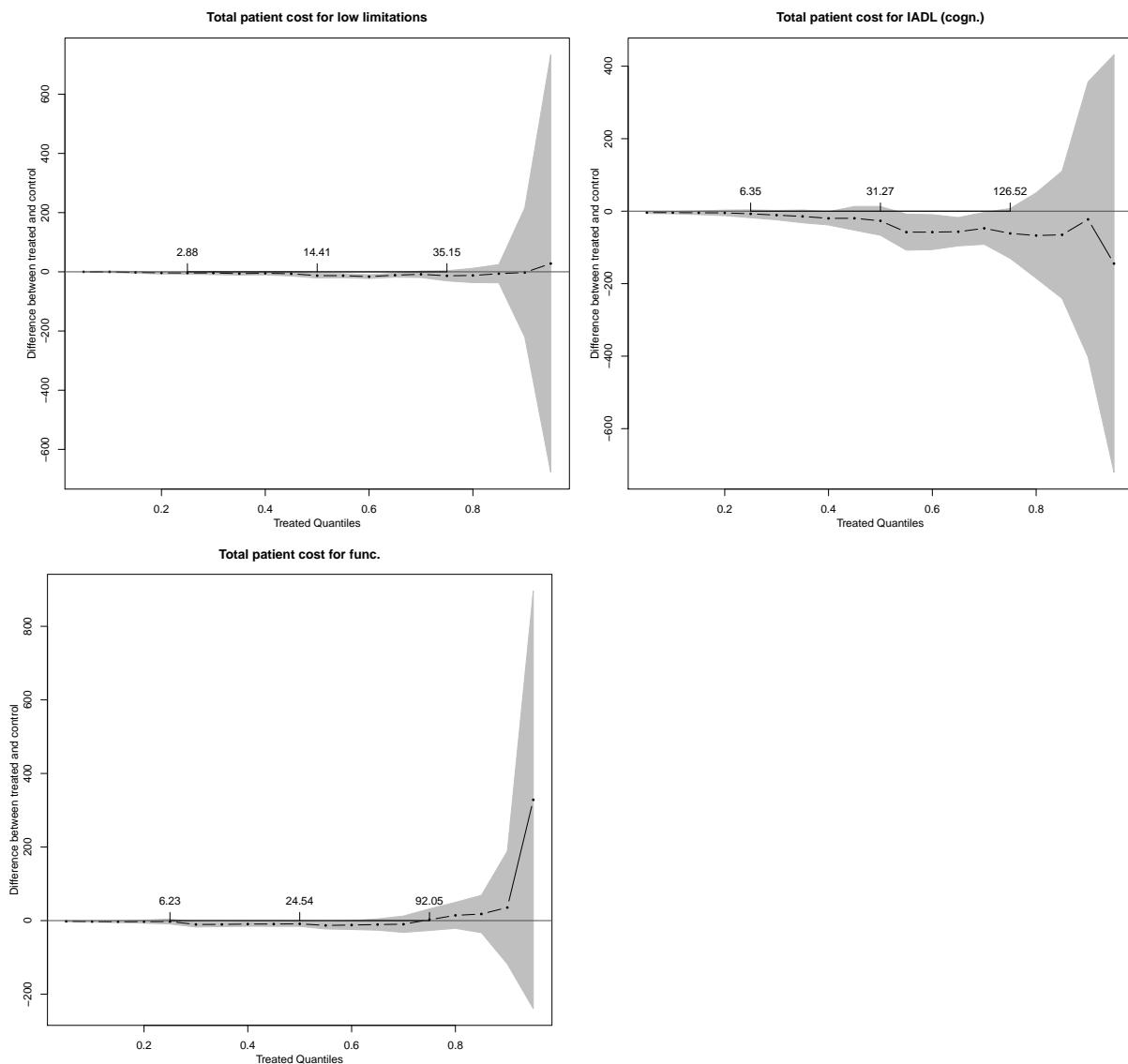


Figure 3.21: Graphs of the differences of the total cost for patients between treated and control, for six months, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

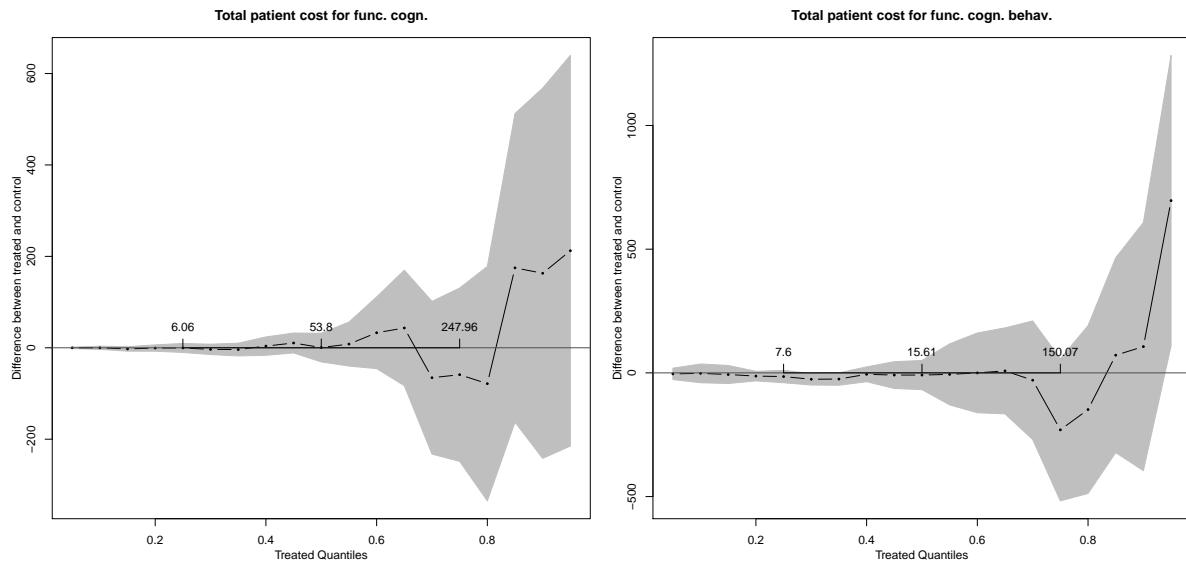


Figure 3.22: Graphs of the differences of the total cost for patients between treated and control, for six months, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

### 3.1.7 Cost differences for the stakeholders between treated and control

Table 3.17: Average cost differences between treated and control group per month (adjusted according to the level of cost before intervention, socio economic proxy and deaths)

	NIHDI Home		NIHDI Home + hosp. + inter		All NIHDI + patients + regions	
	Diff mean adj.	IC95	Diff mean adj.	IC95	Diff mean adj.	IC95
Low limit.	-116	-181.4/-22.8	-152	-356.6/122	-196	-431.2/100.5
IADL (cogn.) or func.	-281	-404/-133.8	-304	-489.9/-84.5	-271	-510.9/4.8
Func. cogn. or func. cogn.behav.	-258	-494.6/11.1	-337	-653.4/98	-396	-747.9/128.8

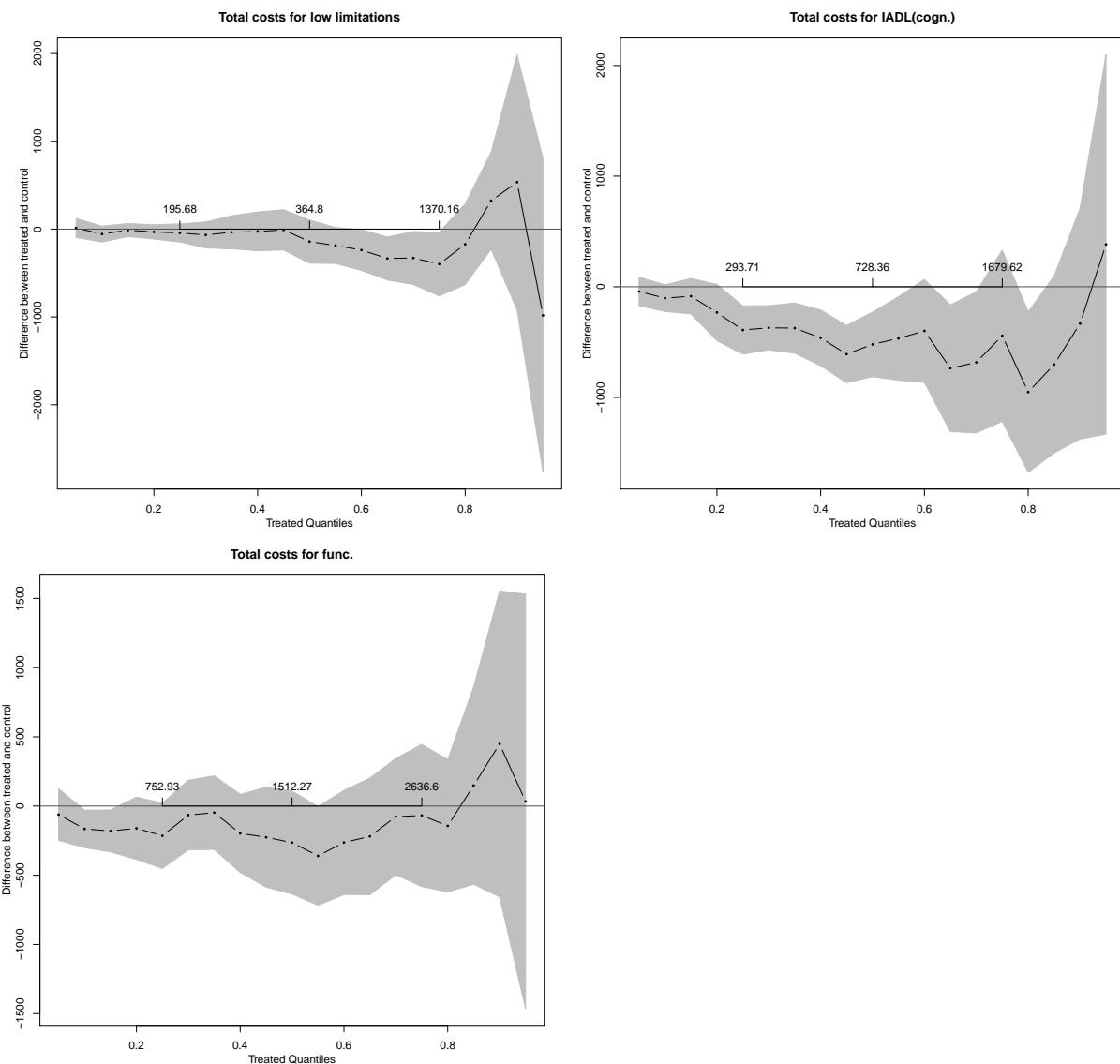


Figure 3.23: Graphs of the differences of the total cost at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the total cost before intervention (per month, per client)

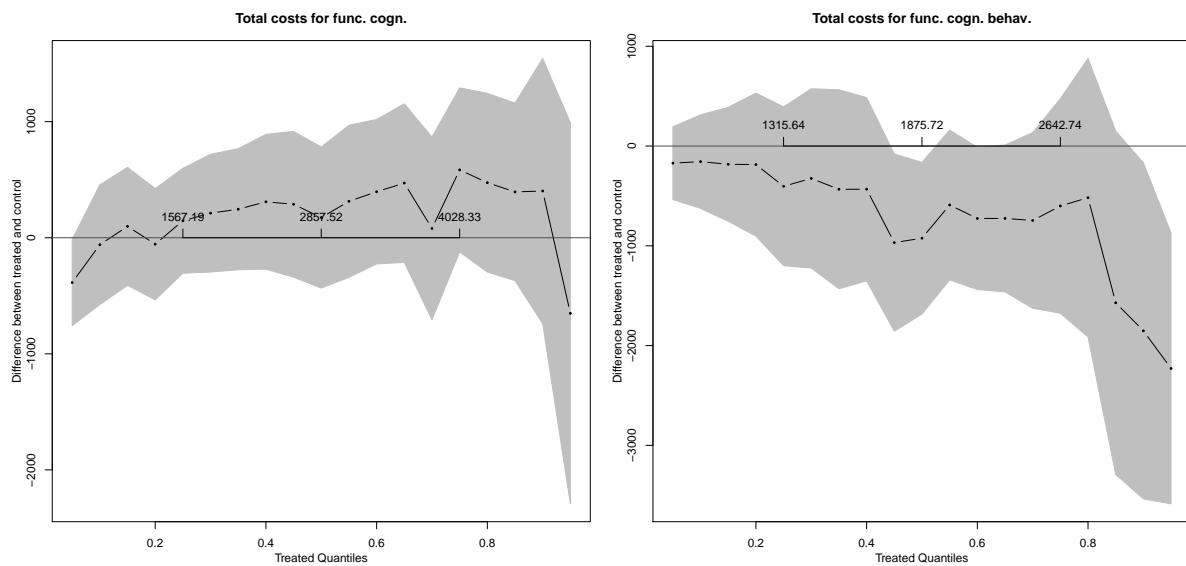


Figure 3.24: Graphs of the differences of the total cost at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the total cost before intervention (per month, per client)

### 3.1.8 Social care services

Table 3.18: Average costs per month (before evaluations)

	Fam. care		Household aid		Meals-on-Wheels	
	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>						
Mean T	759.5	329.3	370.8	436.2	10.7	14.2
IC95 T	339/1240	213/455	310/436	374/514	5/17	6/24
Missing T (%)	65.6	77	15.8	39.4	15	38.6
Mean C	773.2	436.4	308.9	349.5	11.7	8.2
IC95 C	310/1362	311/551	260/358	306/395	5/20	3/14
Missing C (%)	57.4	44.3	6.3	11.8	6.3	11.8
<b>IADL (cogn.)</b>						
Mean T	978.5	1278.8	566.4	445.3	30.1	19.8
IC95 T	529/1480	615/1985	467/677	356/561	17/44	7/36
Missing T (%)	63.4	75.6	14	41	14	41
Mean C	1112.4	743.1	413.6	451.6	47.8	19.5
IC95 C	651/1728	419/1116	338/494	359/541	34/63	11/30
Missing C (%)	52.4	43.9	2	8	2	8
<b>Func.</b>						
Mean T	1244.2	775.2	649.2	741.5	11.5	4.8
IC95 T	799/1758	465/1145	549/752	624/848	4/20	1/10
Missing T (%)	57.4	46.1	23.6	26.8	23.6	26
Mean C	1060.2	1056.6	436.3	409.4	35.6	35.6
IC95 C	670/1522	666/1502	347/523	331/491	22/51	24/48
Missing C (%)	45.2	47	4.1	12.2	4.1	12.2
<b>Func. cogn.</b>						
Mean T	1479.4	1485.7	628.4	737.9	2	2.8
IC95 T	1015/2125	883/2150	490/777	590/901	1/5	0/8
Missing T (%)	58.1	62.8	27.9	38.4	27.9	38.4
Mean C	2475.5	2396.6	609.7	585.6	26	29.7
IC95 C	1838/3140	1780/3052	456/785	439/750	14/40	17/44
Missing C (%)	40.7	41.9	3.5	10.5	3.5	10.5
<b>Func. cogn. behav.</b>						
Mean T	1689.4	2652.3	511.6	606	9.8	0.8
IC95 T	480/3256	603/4655	274/779	342/917	1/31	0/2
Missing T (%)	65.4	73.1	15.4	38.5	15.4	38.5
Mean C	1044.9	948.3	573	725.3	12.5	12.5
IC95 C	172/2789	275/2159	273/868	489/988	0/30	0/29
Missing C (%)	73.1	61.5	0	15.4	0	15.4

### 3.1.9 Number of days at home and in residential care facilities for six months

Table 3.19: Average number of days for 6 months

	Temp. NH		Hosp.		Def. NH		Days home		Days alive	
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Aft	Aft	Aft
<b>Low limit.</b>										
Mean T	1.3	1.2	6.2	5.7	2.8	167	163.6	180.3		
Mean C	1	0	6.7	6.2	4.7	161.1	159.6	182.4		
Diff. TC. IC95	-1.3/2	0.3/2	-4/3	-3.2/2	-6.9/2	-4.2/16	-6.3/15	-3.9/-1		
<b>IADL (cogn.)</b>										
Mean T	1.7	1.5	15	6.4	5.4	154.7	153.9	176.9		
Mean C	1.1	1	4.6	4	3.8	167.7	162.7	178.4		
Diff. TC. IC95	-1.3/3	-1.3/2	4.5/17	-1.3/7	-4.5/8	-26.4/0	-22/4	-8.4/4		
<b>Func.</b>										
Mean T	4.2	2.9	10.8	5.6	3.8	160.2	159.8	178.1		
Mean C	0.6	0.8	4.4	3.2	0.5	157.3	157.4	180.2		
Diff. TC. IC95	1.5/6	-0.1/4	3.1/10	-0.2/5	0.3/7	-8.1/14	-8.7/14	-5.8/2		
<b>Func. cogn.</b>										
Mean T	4.8	5.4	10.5	10	10.1	162.2	146.4	175.1		
Mean C	1.2	3.7	3.9	6.7	8.7	173.5	153.4	174.4		
Diff. TC. IC95	0.8/7	-2.6/6	0.8/13	-1.4/8	-7.5/11	-21/-1	-21.9/9	-6.3/8		
<b>Func. cogn. behav.</b>										
Mean T	3.9	2.8	11.4	3.8	10.6	161.6	157.6	176.4		
Mean C	1.7	2.5	11.6	8.5	0.9	168.1	155.2	166.1		
Diff. TC. IC95	-1.8/7	-4.2/4	-7.8/9	-10.8/1	0.3/22	-20.6/6	-18.7/24	-5/26		

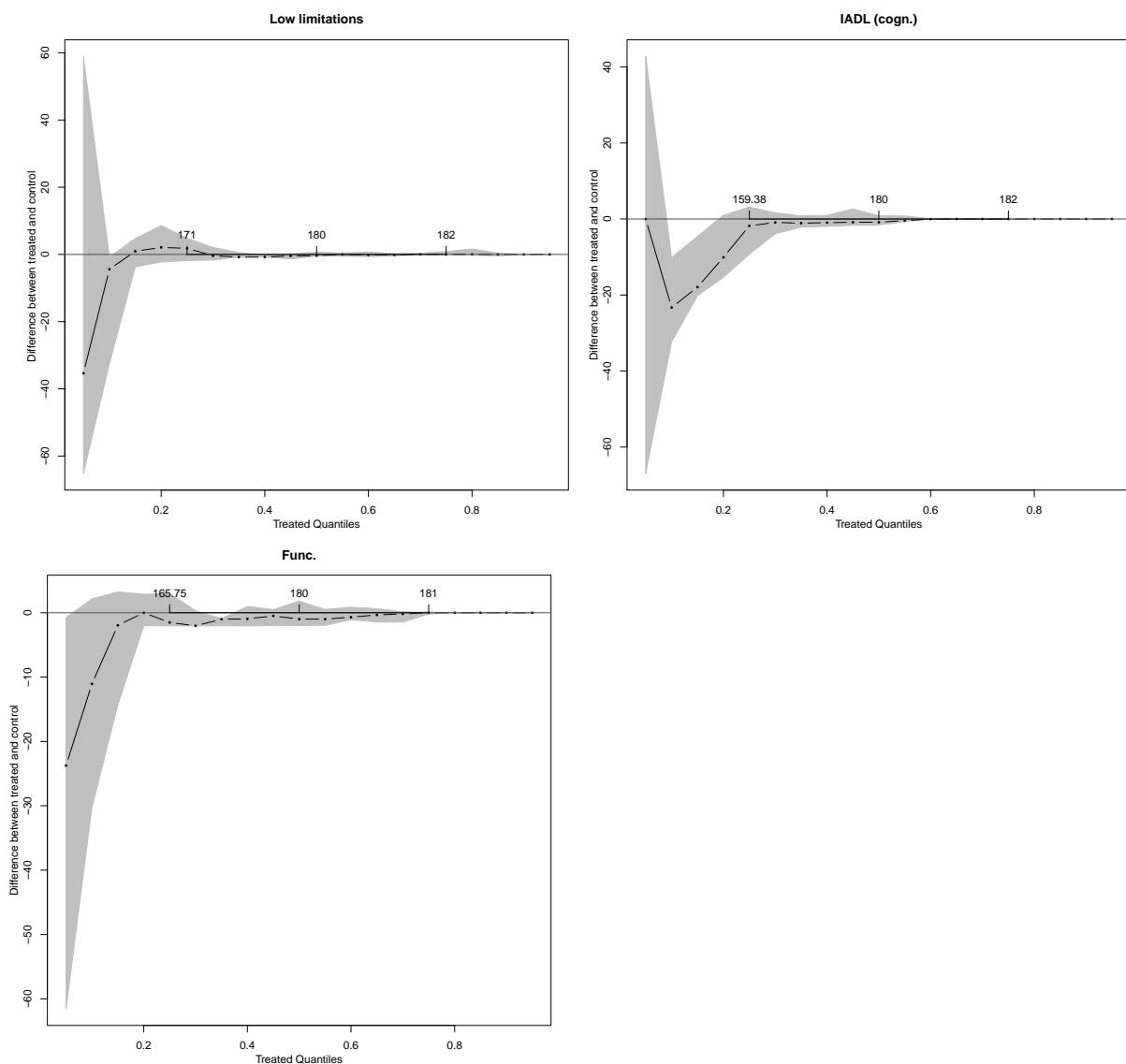


Figure 3.25: Graphs of the differences of days spent at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the number of days at home before intervention

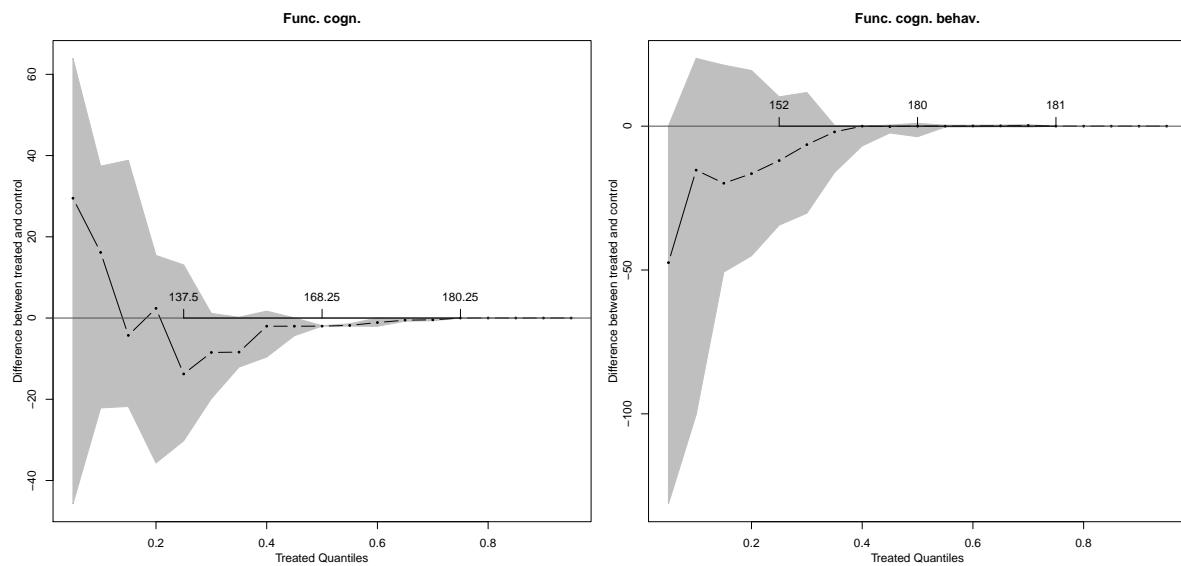


Figure 3.26: Graphs of the differences of days spent at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the number of days at home before intervention

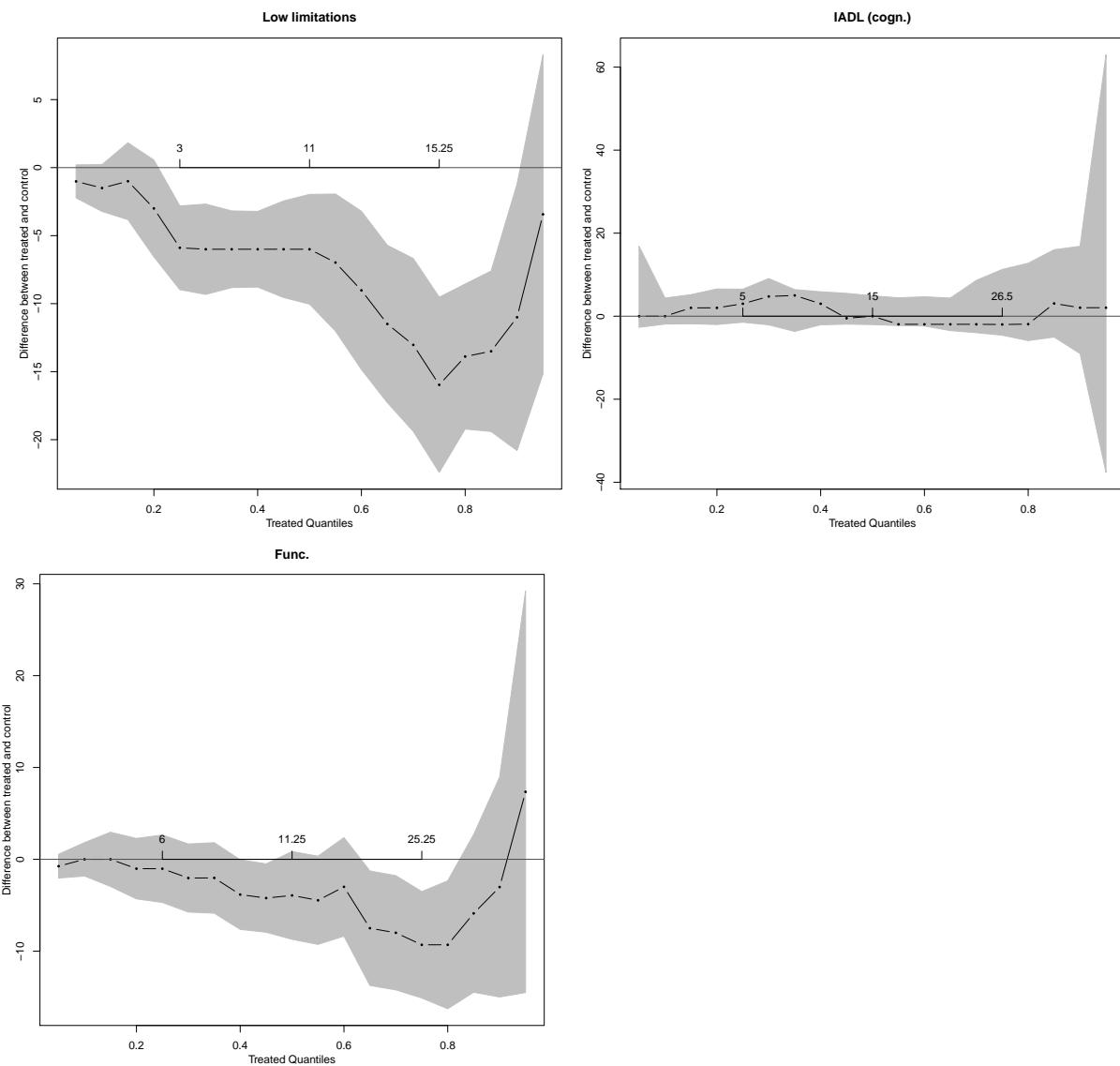


Figure 3.27: Graphs of the differences of days spent in hospital between treated and control, for six months, only for people with at least one hospitalisation, adjusted according to the proxy of the socio economic status and the number of days alive for six months

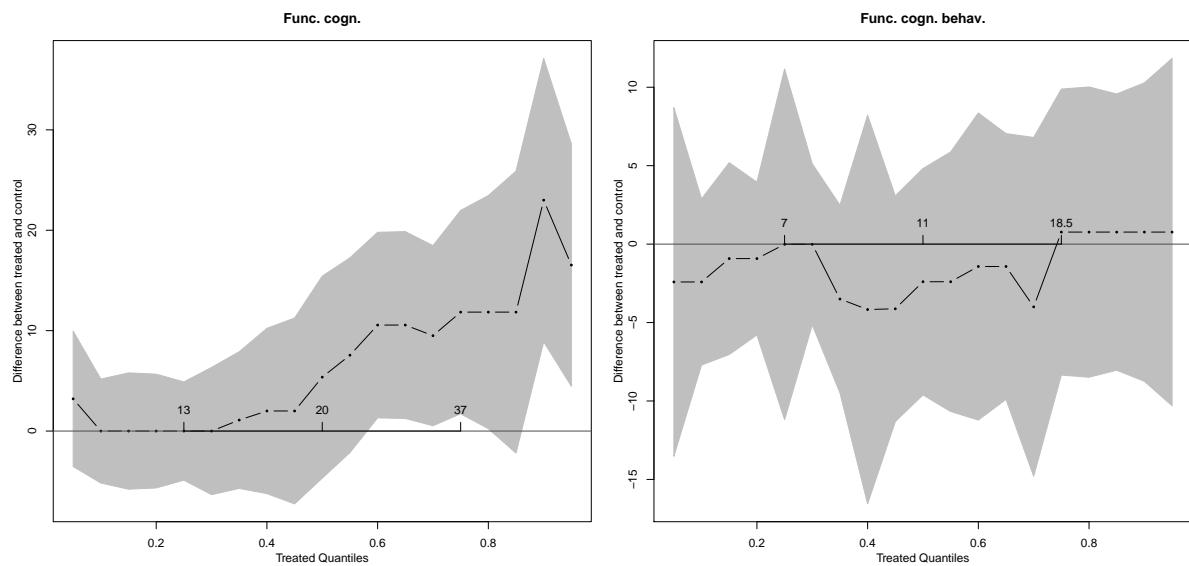


Figure 3.28: Graphs of the differences of days spent in hospital between treated and control, for six months, only for people with at least one hospitalisation, adjusted according to the proxy of the socio economic status and the number of days alive for six months

# Chapter 4

## F1I0

### 4.1 Comparison with the IMA control group

#### 4.1.1 Description of disability groups

- At inclusion

Table 4.1: Proportion above the cut off of BelRAi scales

	No event	Nursing	Hospi	STI	Nursing, hospi
IADL	55.70	83.26	71.57	86.84	81.08
ADL	22.24	67.18	30.39	68.42	71.17
CPS	25.55	35.37	21.57	42.11	30.63
Behav.	13.60	21.06	14.71	15.79	19.82
DRS	39.16	36.60	36.00	45.95	37.96
N	544.00	902.00	102.00	38.00	111.00

- Six months after the inclusion

Table 4.2: Proportion above the cut off of BelRAi scales

	No event	Nursing	Hospi	STI	Nursing, hospi
IADL	55.24	82.17	63.16	91.43	78.38
ADL	24.28	68.77	30.26	62.86	61.84
CPS	28.24	38.34	21.05	47.06	29.33
Behav.	12.69	22.27	11.69	17.14	18.18
DRS	33.16	35.39	32.00	42.86	32.43
N	544.00	902.00	102.00	38.00	111.00

#### 4.1.2 Description of socio-demographic variables

Table 4.3: Sociodemographic characteristics for the treated and the control group depend on the health profiles

	No event		Nursing		Hospi		STI		Nursing, hospi	
	T	C	T	C	T	C	T	C	T	C
<b>Age</b>										
Median[IQR]	81[75-85]	80[74-85]	82[76-87]	82[77-87]	82[77-85]	82[78-85]	82[77-88]	84[79-89]	83[77-87]	85[79-88]
<b>Gender</b>										
% Men	32.35	42.83	32.82	30.38	32.35	42.16	23.68	15.79	31.53	47.75
% Women	67.65	57.17	67.18	69.62	67.65	57.84	76.32	84.21	68.47	52.25
<b>ICG</b>										
% No ICG	17.83	-	9.65	-	13.73	-	18.42	-	7.21	-
% No cohabitant	49.45	-	50	-	56.86	-	47.37	-	59.46	-
% Cohabitant	32.72	-	40.35	-	29.41	-	34.21	-	33.33	-
<b>Region</b>										
Bruxelles	0.37	9.74	0	5.43	0	12.75	0	2.63	0	2.7
Flandre	49.63	54.41	76.39	65.96	40.2	50.98	81.58	50	69.37	60.36
Wallonie	50	35.85	23.61	28.6	59.8	36.27	18.42	47.37	30.63	36.94
<b>Median income</b>										
Low	11.03	29.96	3.1	22.73	8.82	33.33	5.26	31.58	7.21	33.33
Medium	66.18	46.88	63.75	50.11	81.37	50	34.21	47.37	69.37	50.45
High	22.79	23.16	33.15	27.16	9.8	16.67	60.53	21.05	23.42	16.22
<b>N</b>										
Unique value	544	483	902	618	102	91	38	32	111	83



### 4.1.3 Utilisation of services

#### Appropriate use of services (six months post inclusion)

Table 4.4: IC differnce of mean between treated and control for the dependency IMA outcomes

	Nursing Care N months		Short term institu. N stays		Day care center N days	
	Use	Users	Use	Users	Use	Users
<b>No event</b>						
% / Med[IQR] C	16.91		5[2-6]	0.92	21[14-29]	0.74
% / Med[IQR] T	39.71		6[2-6]	9.93	24[15-43]	3.12
OR [IC95]	3.17[2.44/4.34]			9.51[4.27/48.76]		3.15[1.19/38014828.25]
<b>Nursing</b>						
% / Med[IQR] C	89.69		6[6-6]	5.88	22[11-46]	3.55
% / Med[IQR] T	88.36		6[5-6]	10.2	34[15-53]	6.43
OR [IC95]	0.96[0.7/1.32]			1.49[1.02/2.2]		2.99[1.72/5.77]
<b>Hospi.</b>						
% / Med[IQR] C	30.39		5[2-6]	10.78	42[20-43]	0.98
% / Med[IQR] T	49.02		6[3-6]	14.71	28[19-49]	1.96
OR [IC95]	2.02[1.13/3.76]			1.92[0.8/5.79]		-[-/-]
<b>STI</b>						
% / Med[IQR] C	34.21		6[6-6]	63.16	21[12-66]	7.89
% / Med[IQR] T	86.84		6[6-6]	26.32	18[11-29]	7.89
OR [IC95]	18.6[3.56/7.30865884431935e+24]			0.2[0.02/0.78]		-[-/-]
<b>Nursing, Hospi</b>						
% / Med[IQR] C	88.29		6[6-6]	10.81	28[21-72]	2.7
% / Med[IQR] T	87.39		6[5-6]	13.51	25[14-44]	5.41
OR [IC95]	1.03[0.39/2.48]			0.78[0.27/2.13]		-[-/-]

Table 4.5: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Inclusion)

	No event		Nursing		Hospi		STI		Nursing, hospi	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or Incont	0(0)	100(38.9)	100(7.7)	0(0)	0(0)	100(27.8)	0(0)	100(2.6)	100(8.3)	0(0)
Low lim, ADL & Incont										
ADL lim	0(0)	100(2.2)	100(0.5)	0(0)	-(0)	-(0)	-(0)	-(0)	100(0.9)	0(0)
Incont										
ADL & Incont lim	0(0)	100(27.4)	100(30.4)	0(0)	0(0)	100(36.1)	16.7(5.3)	83.3(26.3)	100(33)	0(0)
ADL ? No Incont	0(0)	100(6.5)	100(1.5)	0(0)	0(0)	100(6.2)	-(0)	-(0)	-(0)	-(0)
tot	0(0)	100(100)	100(100)	0(0)	0(0)	100(100)	50(50)	50(50)	100(100)	0(0)

Table 4.6: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated second eval)

	No event		Nursing		Hospি		STI		Nursing, hospi	
	N.	W. N.	N.	W. N.						
No lim										
ADL or Incont	21.5(8.4)	78.5(30.5)	64.7(5)	35.3(2.7)	33.3(9.3)	66.7(18.6)	100(2.6)	0(0)	88.9(7.3)	11.1(0.9)
Low lim,										
ADL & Incont	58.3(1.3)	41.7(0.9)	75(0.3)	25(0.1)	-(0)	-(0)	-(0)	-(0)	0(0)	100(0.9)
ADL lim	49.7(13.6)	50.3(13.8)	90.6(27.5)	9.4(2.8)	60(21.6)	40(14.4)	83.3(26.3)	16.7(5.3)	83.3(27.5)	16.7(5.5)
Incont	22.9(1.5)	77.1(5)	76.9(1.1)	23.1(0.3)	16.7(1)	83.3(5.2)	-(0)	-(0)	-(0)	-(0)
ADL & Incont	51.3(7.4)	48.7(7.1)	90.9(38.6)	9.1(3.9)	58.8(10.3)	41.2(7.2)	90.9(52.6)	9.1(5.3)	89.6(39.4)	10.4(4.6)
lim										
ADL ?	71.4(7.4)	28.6(3)	89.6(15.7)	10.4(1.8)	75(9.3)	25(3.1)	66.7(5.3)	33.3(2.6)	93.3(12.8)	6.7(0.9)
No Incont										
tot	39.7(39.7)	60.3(60.3)	88.3(88.3)	11.7(11.7)	51.5(51.5)	48.5(48.5)	86.8(86.8)	13.2(13.2)	87.2(87.2)	12.8(12.8)

### Appropriate use of services (twelve months post inclusion)

Table 4.7: IC differnce of mean between treated and control for the dependency IMA outcomes

	Nursing Care		Short term institu.		Day care center	
	N months		N stays		N days	
	Use	Users	Use	Users	Use	Users
<b>No event</b>						
% / Med[IQR] C	19.12	5[2-10]	2.02	16[14-43]	1.1	22[11-36]
% / Med[IQR] T	41.54	6[2-9]	17.28	26[15-49]	3.12	54[26-119]
OR [IC95]	3.58[2.71/4.69]		7.86[4.41/18.46]		2.07[0.73/6.83]	
<b>Nursing</b>						
% / Med[IQR] C	82.04	12[9-12]	11.2	36[21-74]	4.21	91[31-100]
% / Med[IQR] T	74.72	10[5-12]	15.3	32[15-56]	7.65	45[17-94]
OR [IC95]	0.88[0.64/1.19]		1.21[0.9/1.62]		2.86[1.77/5.21]	
<b>Hospi.</b>						
% / Med[IQR] C	28.43	5[2-12]	16.67	34[16-42]	2.94	4[4-6]
% / Med[IQR] T	39.22	6[3-12]	21.57	33[14-62]	2.94	7[6-32]
OR [IC95]	1.58[0.88/2.94]		1.57[0.73/3.63]		-[-/-]	
<b>STI</b>						
% / Med[IQR] C	34.21	12[12-12]	71.05	28[9-82]	7.89	207[107-207]
% / Med[IQR] T	84.21	8[7-10]	50	18[10-44]	7.89	83[43-97]
OR [IC95]	39.38[5.72/4.02409538586974e+107]		0.46[0.11/1.57]		-[-/-]	
<b>Nursing, Hospi</b>						
% / Med[IQR] C	76.58	12[8-12]	13.51	86[52-122]	2.7	50[30-50]
% / Med[IQR] T	68.47	10[5-12]	18.02	28[14-44]	6.31	38[15-137]
OR [IC95]	0.89[0.32/2.4]		0.99[0.46/2.41]		-[-/-]	

Table 4.8: Proportion of utilisation of short term institutionalization depend on the levels of presence of icg and BelRAI profiles

No event				Nursing				Hospi				
	W	No Coh	Coh	tot	W	No Coh	Coh	tot	W	No Coh	Coh	tot
<b>low limit.</b>												
%	13.8(9.3)	13.5(5.6)	0(0)	11.3(4.4)	5.3(2.3)	13.6(1.8)	10(0.5)	10.3(1.3)	20(14.3)	10(1.7)	0(0)	11.1(2.9)
% zarit	/	/	-	/	/	42.9	0	37.5	/	/	-	/
<b>IADL, (cogn.)</b>												
%	10.5(2.1)	20(6.3)	21.4(6.7)	19.4(5.7)	7.1(1.1)	19.7(3.1)	21.2(1.9)	18.6(2.4)	66.7(14.3)	23.8(8.6)	20(3.3)	27.6(7.8)
% zarit	/	/	50	/	/	50	80	60	/	/	/	/
<b>func.</b>												
%	8.3(1)	20(4.1)	11.8(2.2)	15.8(2.9)	8.3(2.3)	17.6(8)	9.3(3)	14.1(5.4)	0(0)	27.3(10.3)	12.5(3.3)	22.6(6.9)
% zarit	/	12.5	50	25	/	57.1	42.9	53.6	-	/	/	/
<b>func., cogn.</b>												
%	100(1)	42.9(2.2)	29.5(7.3)	33.9(3.7)	18.2(2.3)	10.7(2.4)	20.5(9.1)	16.7(5.1)	-(0)	0(0)	44.4(13.3)	28.6(3.9)
% zarit	/	100	77.8	85.7	/	55.6	68.2	64.5	-	-	/	/
<b>func., cogn., behav.</b>												
%	-(0)	25(0.4)	25(1.1)	25(0.6)	-(0)	46.2(1.3)	9.4(0.8)	20(1)	-(0)	-(0)	0(0)	0(0)
% zarit	-	/	100	100	-	50	100	66.7	-	-	-	-
<b>tot</b>												
%	13.4(13.4)	18.6(18.6)	17.4(17.4)	17.3(17.3)	8(8)	16.6(16.6)	15.4(15.4)	15.3(15.3)	28.6(28.6)	20.7(20.7)	20(20)	21.6(21.6)
% zarit	-	50	66.7	57.4	-	52.9	64.9	58	-	75	0	60

Table 4.9: Proportion of utilisation of short term institutionalization depend on the levels of presence of icg and BelRAI profiles

STI				Nursing, hospi					
	W	No Coh	Coh	tot		W	No Coh	Coh	tot
<b>low limit.</b>									
%	0(0)	0(0)	-(0)	0(0)		0(0)	11.1(1.5)	0(0)	6.2(0.9)
% zarit	-	-	-	-		-	0	-	0
<b>IADL, (cogn.)</b>									
%	0(0)	33.3(5.6)	50(7.7)	33.3(5.3)		0(0)	37.5(4.5)	0(0)	23.1(2.7)
% zarit	-	100	0	50		-	66.7	-	66.7
<b>func.</b>									
%	25(14.3)	66.7(33.3)	100(15.4)	60(23.7)		0(0)	17.9(7.6)	33.3(13.5)	22.2(9)
% zarit	/	50	100	62.5		-	100	100	100
<b>func., cogn.</b>									
%	0(0)	66.7(11.1)	66.7(46.2)	61.5(21.1)		-(0)	21.1(6.1)	0(0)	12.9(3.6)
% zarit	-	50	66.7	62.5		-	100	-	100
<b>func., cogn., behav.</b>									
%	-(0)	-(0)	-(0)	-(0)		-(0)	50(1.5)	25(2.7)	33.3(1.8)
% zarit	-	-	-	-		-	0	100	50
<b>tot</b>									
%	14.3(14.3)	50(50)	69.2(69.2)	50(50)		0(0)	21.2(21.2)	16.2(16.2)	18(18)
% zarit	-	55.6	66.7	61.1		-	70	100	78.6

## Inappropriate use of services (six months post inclusion)

Table 4.10: IC difference of mean between treated and control for the low value IMA outcomes

	Emergency N visits		GP out-of hours N visits		Hospilisation N visits	
	Use	Users	Use	Users	Use	Users
<b>No event</b>						
% / Med[IQR] C	17.46	1[1-1]	10.66	1[1-1]	20.59	1[1-2]
% / Med[IQR] T	16.36	1[1-2]	9.56	1[1-2]	27.39	1[1-2]
OR [IC95]	0.99[0.7/1.38]		0.85[0.57/1.29]		1.53[1.12/2.1]	
<b>Nursing</b>						
% / Med[IQR] C	24.83	1[1-1]	16.52	1[1-2]	30.93	1[1-2]
% / Med[IQR] T	19.29	1[1-2]	16.41	1[1-2]	28.49	1[1-2]
OR [IC95]	0.84[0.67/1.05]		1[0.76/1.3]		0.96[0.76/1.2]	
<b>Hospi.</b>						
% / Med[IQR] C	19.61	1[1-2]	11.76	2[1-2]	33.33	1[1-2]
% / Med[IQR] T	17.65	2[1-2]	8.82	1[1-1]	31.37	1[1-2]
OR [IC95]	0.98[0.48/2.15]		0.83[0.32/2.33]		0.94[0.52/1.74]	
<b>STI</b>						
% / Med[IQR] C	31.58	1[1-1]	5.26	1[1-1]	34.21	1[1-1]
% / Med[IQR] T	5.26	4[3-5]	10.53	2[2-2]	23.68	1[1-1]
OR [IC95]	0.34[0/29.02]		-[-/-]		2.83[0.58/31.03]	
<b>Nursing, Hospi</b>						
% / Med[IQR] C	40.54	1[1-2]	22.52	1[1-2]	46.85	1[1-2]
% / Med[IQR] T	22.52	1[1-1]	13.51	1[1-2]	29.73	1[1-2]
OR [IC95]	0.46[0.22/0.86]		0.68[0.28/1.46]		0.46[0.26/0.79]	

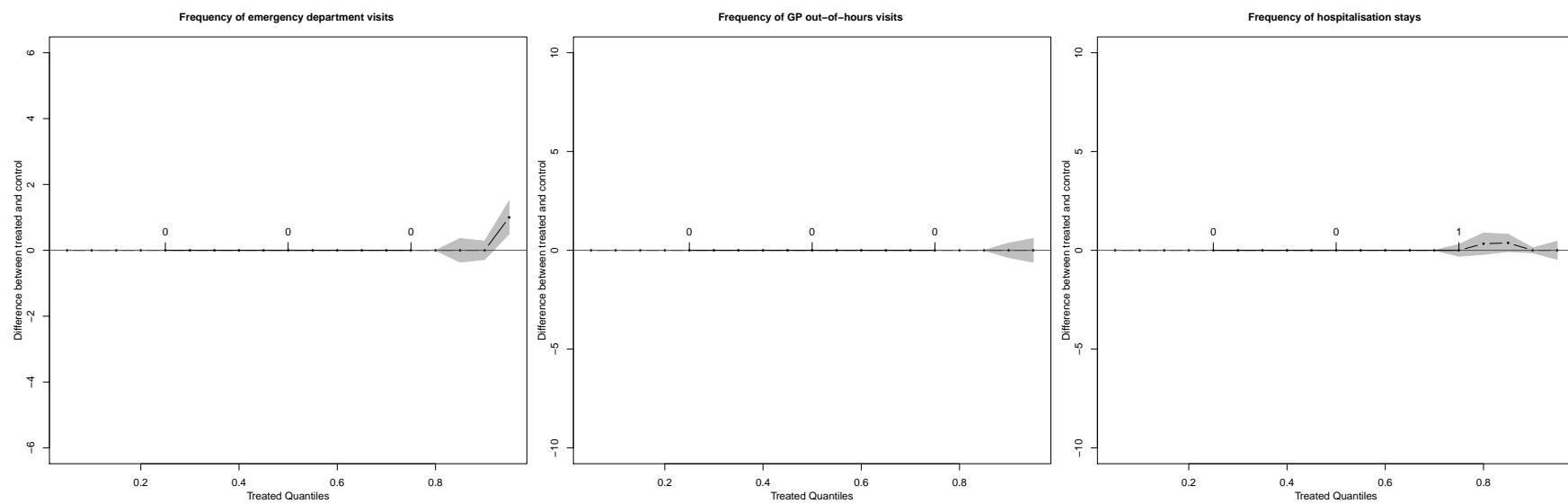


Figure 4.1: Regression quantile of inappropriate use of services (No event)

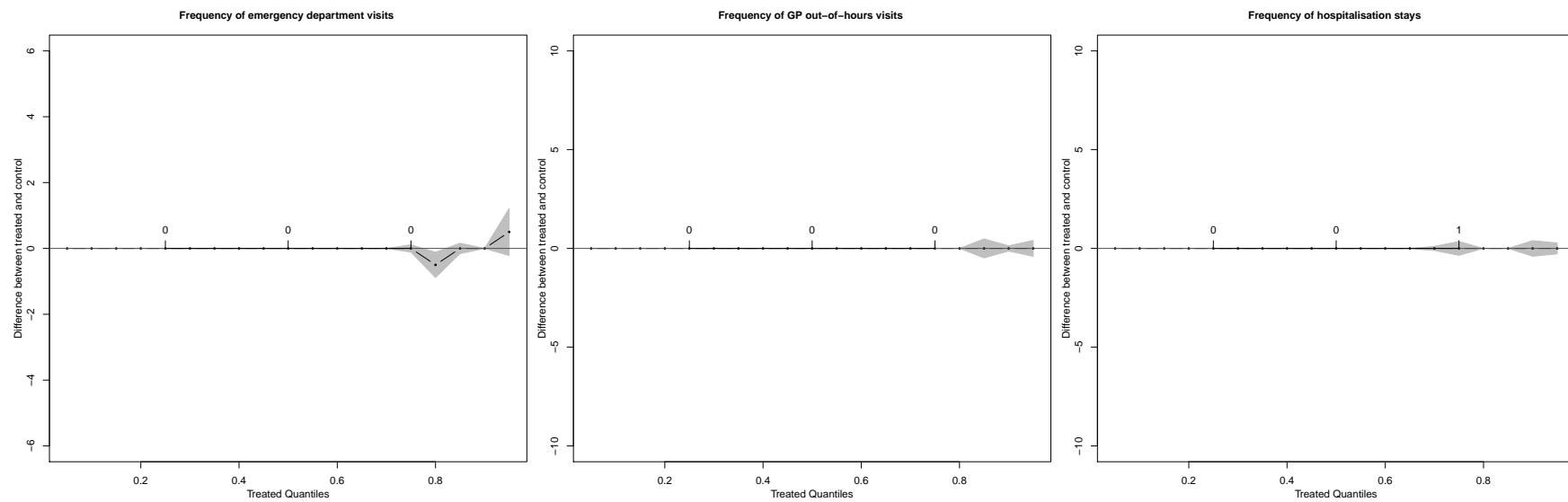


Figure 4.2: Regression quantile of inappropriate use of services (Nursing)

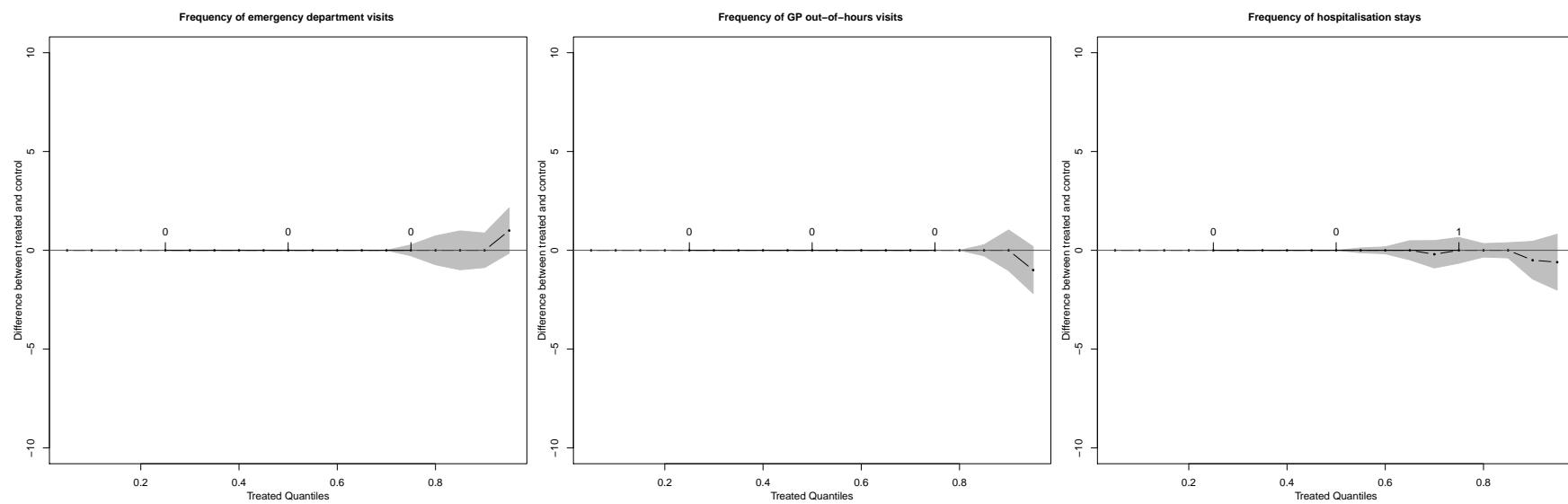


Figure 4.3: Regression quantile of inappropriate use of services (Hosp.)

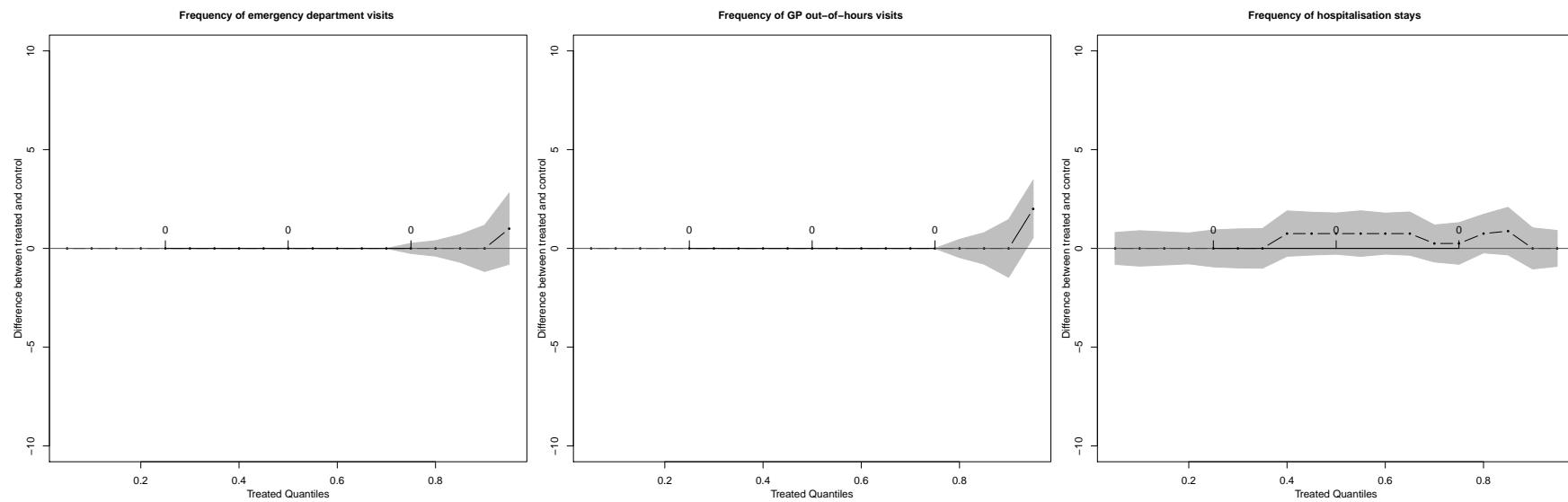


Figure 4.4: Regression quantile of inappropriate use of services (STI)

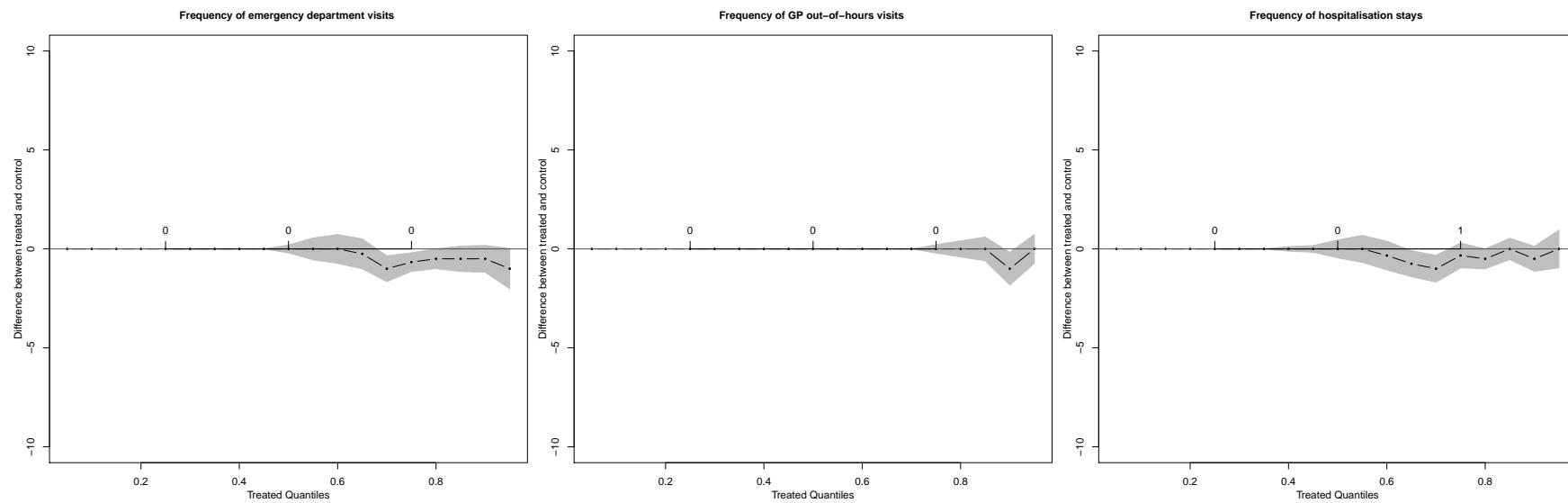


Figure 4.5: Regression quantile of inappropriate use of services (Nursing & Hospi.)

## Inappropriate use of services (twelve months post inclusion)

Table 4.11: IC difference of mean between treated and control for the low value IMA outcomes

	Emergency N visits		GP out-of hours N visits		Hospilisation N visits	
	Use	Users	Use	Users	Use	Users
<b>No event</b>						
% / Med[IQR] C	32.35	1[1-2]	18.75	1[1-2]	20.04	1[1-2]
% / Med[IQR] T	16.36	1[1-2]	19.12	2[1-2]	24.26	1[1-2]
OR [IC95]	0.37[0.26/0.51]		1.05[0.73/1.44]		1.4[1.02/1.91]	
<b>Nursing</b>						
% / Med[IQR] C	44.46	1[1-2]	26.27	1[1-2]	31.15	1[1-2]
% / Med[IQR] T	19.29	1[1-2]	28.6	1[1-2]	29.05	1[1-2]
OR [IC95]	0.29[0.23/0.36]		1.08[0.87/1.37]		1.02[0.82/1.27]	
<b>Hospi.</b>						
% / Med[IQR] C	41.18	1[1-2]	19.61	1[1-2]	27.45	1[1-2]
% / Med[IQR] T	17.65	2[1-2]	16.67	2[1-4]	31.37	1[1-2]
OR [IC95]	0.37[0.18/0.68]		0.9[0.41/2.09]		1.24[0.69/2.41]	
<b>STI</b>						
% / Med[IQR] C	36.84	1[1-1]	10.53	1[1-1]	13.16	1[1-1]
% / Med[IQR] T	5.26	4[3-5]	21.05	2[2-2]	15.79	1[1-1]
OR [IC95]	0.16[0/0.82]		1.45[0.2/19.12]		2.29[0.38/18.65]	
<b>Nursing, Hospi</b>						
% / Med[IQR] C	58.56	1[1-2]	32.43	1[1-2]	38.74	2[1-3]
% / Med[IQR] T	22.52	1[1-1]	27.93	2[1-2]	27.93	1[1-2]
OR [IC95]	0.16[0.07/0.33]		0.97[0.51/1.87]		0.51[0.26/0.9]	

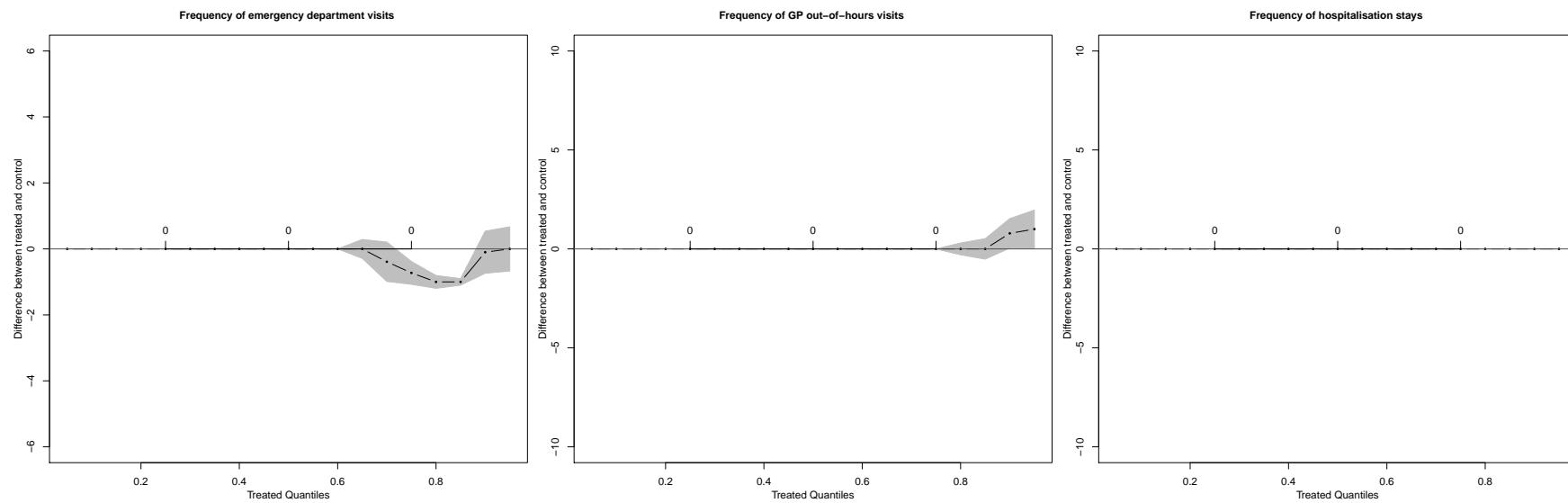


Figure 4.6: Regression quantile of inappropriate use of services (No event)

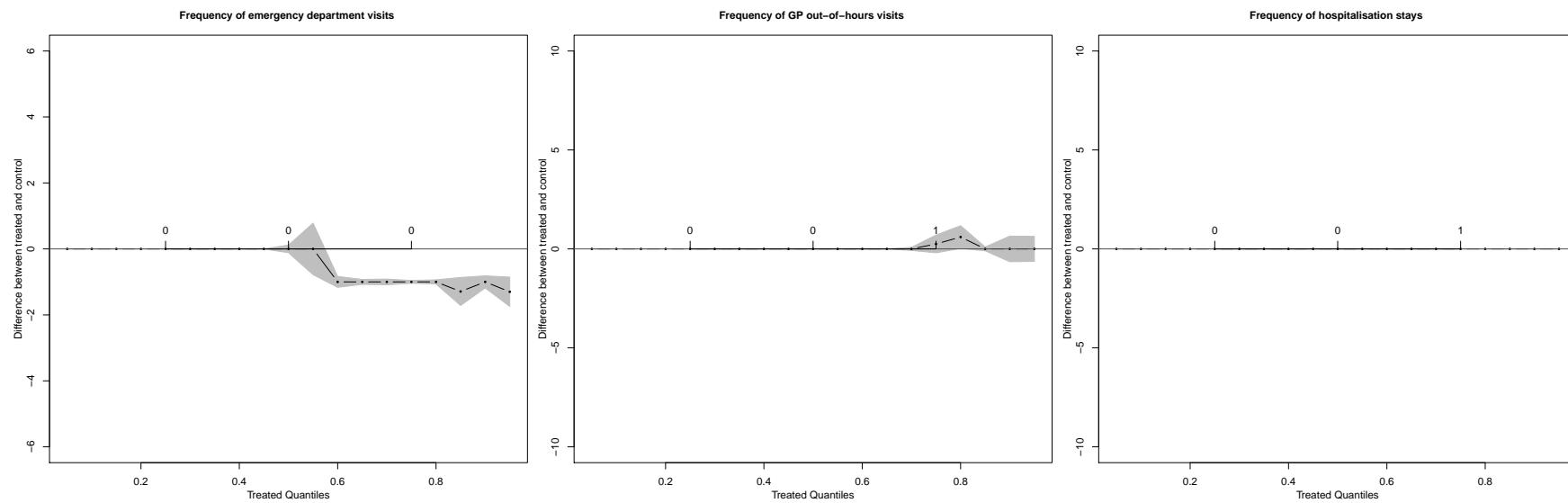


Figure 4.7: Regression quantile of inappropriate use of services (Nursing)

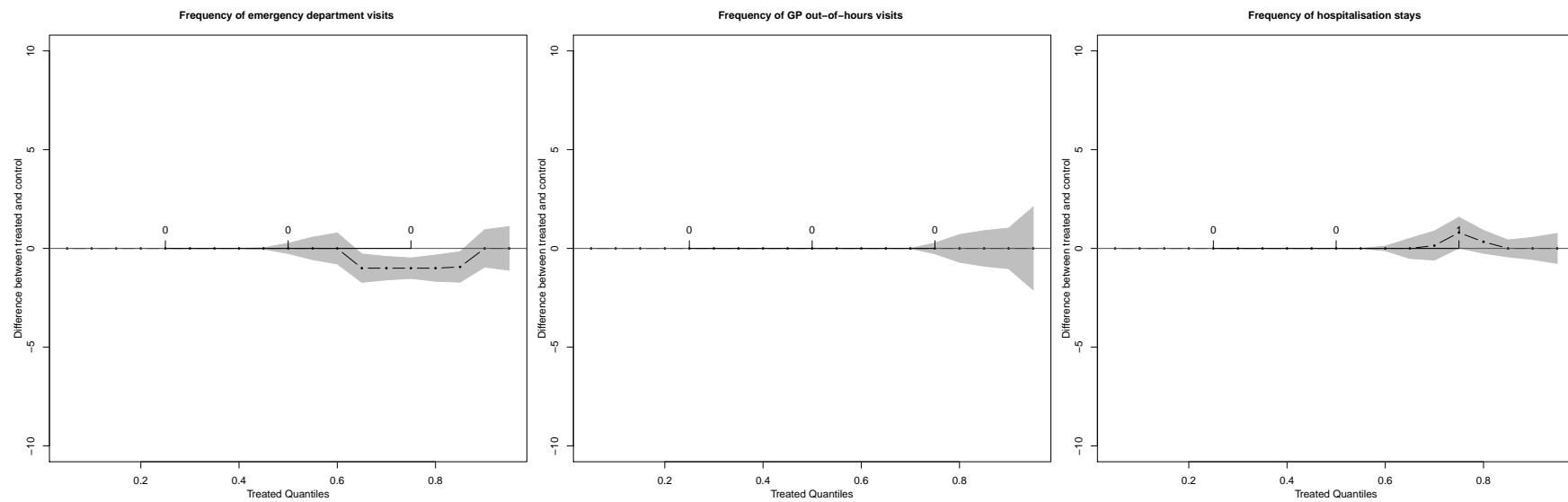


Figure 4.8: Regression quantile of inappropriate use of services (Hosp.)

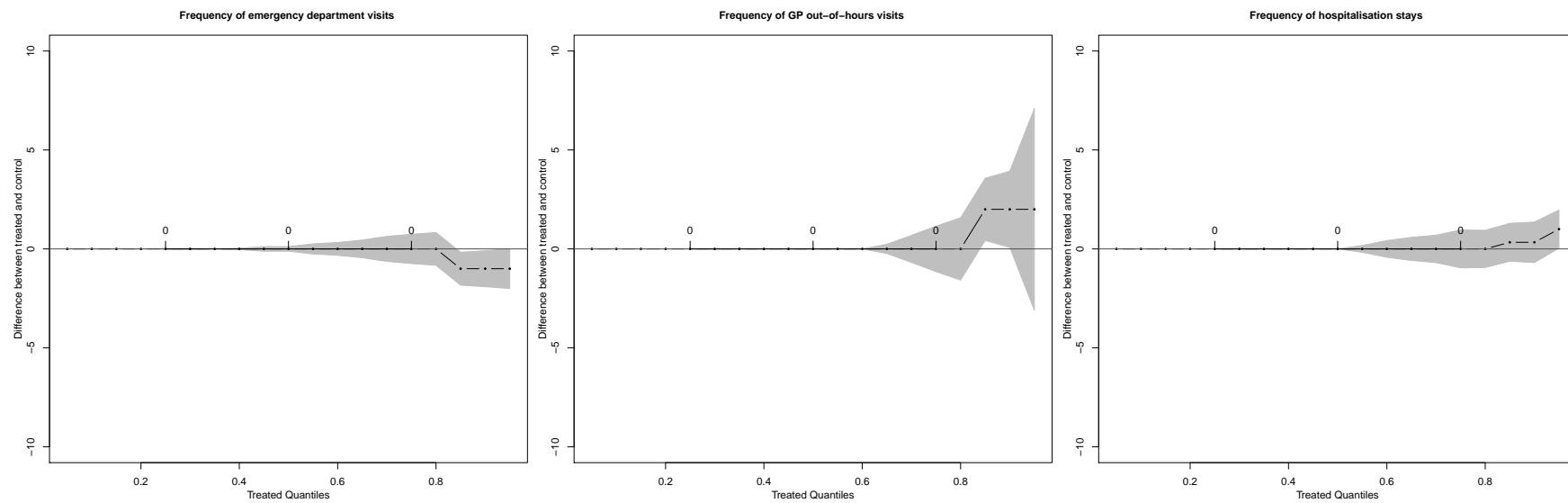


Figure 4.9: Regression quantile of inappropriate use of services (STI)

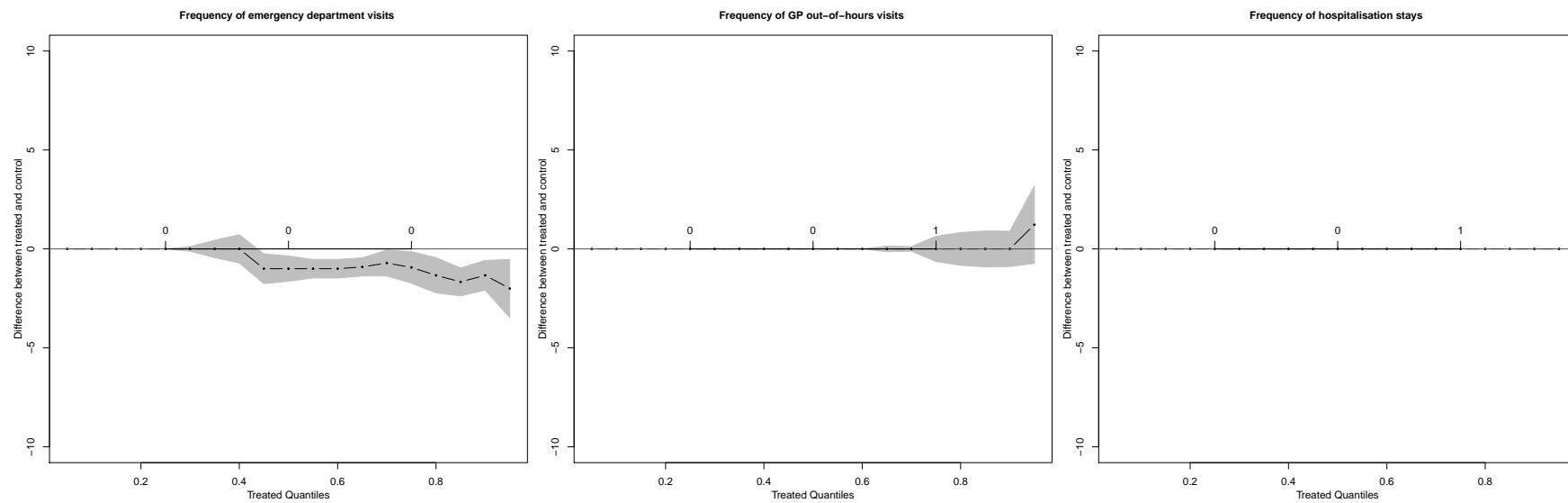


Figure 4.10: Regression quantile of inappropriate use of services (Nursing & Hospi.)

### Definitive institutionalisation and death (six months post inclusion)

Table 4.12: IC of ratio of incidence rate between treated and control for the death and the definitive institutionalisation

	Definitive institu.	Death
<b>No event</b>		
IR T	0.0144	0.0085
IR C	0.0034	3e-04
IC95	2.18/8.19	3.76/203.63
<b>Nursing</b>		
IR T	0.0153	0.0127
IR C	0.0104	0.0028
IC95	1.04/2.1	2.6/7.99
<b>Hosp.</b>		
IR T	0.0159	0.0067
IR C	0.0338	0.0016
IC95	0.21/1.05	0.46/36.59
<b>STI</b>		
IR T	0.0236	0
IR C	0.0904	0
IC95	0.09/0.72	-/-
<b>Nursing, Hosp</b>		
IR T	0.0243	0.0175
IR C	0.0111	0.0045
IC95	0.89/5.45	1.07/13.76

Table 4.13: Proportion of utilisation of definitive institutionalization depend on the levels of presence of icg and BelRAI profiles

No event				Nursing				Hospi				
	W	No Coh	Coh	tot	W	No Coh	Coh	tot	W	No Coh	Coh	tot
<b>low limit.</b>												
%	6.2(4.1)	6.3(2.6)	2.8(0.6)	5.7(2.2)	7.9(3.4)	8.5(1.1)	0(0)	6.8(0.9)	0(0)	0(0)	0(0)	0(0)
% zarit	/	/	-	/	/	42.9	0	37.5	/	/	-	/
<b>IADL, (cogn.)</b>												
%	31.6(6.2)	17.6(5.6)	8.9(2.8)	16.2(4.8)	7.1(1.1)	15.5(2.4)	9.1(0.8)	12.7(1.7)	33.3(7.1)	19(6.9)	0(0)	17.2(4.9)
% zarit	/	/	50	/	/	50	80	60	/	/	/	/
<b>func.</b>												
%	8.3(1)	10.9(2.2)	0(0)	6.9(1.3)	16.7(4.6)	11.2(5.1)	11(3.6)	11.5(4.4)	0(0)	9.1(3.4)	0(0)	6.5(2)
% zarit	/	12.5	50	25	/	57.1	42.9	53.6	-	/	/	/
<b>func., cogn.</b>												
%	0(0)	42.9(2.2)	18.2(4.5)	23.7(2.6)	27.3(3.4)	24.3(5.5)	14.3(6.3)	18.5(5.7)	-(0)	20(1.7)	33.3(10)	28.6(3.9)
% zarit	/	100	77.8	85.7	/	55.6	68.2	64.5	-	-	/	/
<b>func., cogn., behav.</b>												
%	-(0)	50(0.7)	37.5(1.7)	41.7(0.9)	-(0)	38.5(1.1)	31.2(2.7)	33.3(1.7)	-(0)	-(0)	0(0)	0(0)
% zarit	-	/	100	100	-	50	100	66.7	-	-	-	-
<b>tot</b>												
%	11.3(11.3)	13.4(13.4)	9.6(9.6)	11.8(11.8)	12.6(12.6)	15.3(15.3)	13.5(13.5)	14.3(14.3)	7.1(7.1)	12.1(12.1)	10(10)	10.8(10.8)
% zarit	-	50	66.7	57.4	-	52.9	64.9	58	-	75	0	60

Table 4.14: Proportion of utilisation of definitive institutionalization depend on the levels of presence of icg and BelRAI profiles

STI				Nursing, hospi					
	W	No Coh	Coh	tot		W	No Coh	Coh	tot
<b>low limit.</b>									
%	0(0)	0(0)	-(0)	0(0)	0(0)	22.2(3)	0(0)	12.5(1.8)	
% zarit	-	-	-	-	-	0	-	0	
<b>IADL, (cogn.)</b>									
%	100(14.3)	66.7(11.1)	0(0)	50(7.9)	0(0)	25(3)	25(2.7)	23.1(2.7)	
% zarit	-	100	0	50	-	66.7	-	66.7	
<b>func.</b>									
%	25(14.3)	11.1(5.6)	50(7.7)	20(7.9)	0(0)	10.7(4.5)	13.3(5.4)	11.1(4.5)	
% zarit	/	50	100	62.5	-	100	100	100	
<b>func., cogn.</b>									
%	0(0)	33.3(5.6)	22.2(15.4)	23.1(7.9)	-(0)	31.6(9.1)	0(0)	19.4(5.4)	
% zarit	-	50	66.7	62.5	-	100	-	100	
<b>func., cogn., behav.</b>									
%	-(0)	-(0)	-(0)	-(0)	-(0)	50(1.5)	50(5.4)	50(2.7)	
% zarit	-	-	-	-	-	0	100	50	
<b>tot</b>									
%	28.6(28.6)	22.2(22.2)	23.1(23.1)	23.7(23.7)	0(0)	21.2(21.2)	13.5(13.5)	17.1(17.1)	
% zarit	-	55.6	66.7	61.1	-	70	100	78.6	

**Definitive institutionalisation and death (twelve months post inclusion)**

Table 4.15: IC of ratio of incidence rate between treated and control for the death and the definitive institutionalisation

	Definitive institu.	Death
<b>No event</b>		
IR T	0.0112	0.0101
IR C	0.004	0.0036
IC95	1.78/4.48	1.75/4.57
<b>Nursing</b>		
IR T	0.0141	0.0128
IR C	0.0097	0.0082
IC95	1.11/1.89	1.19/2.05
<b>Hospi.</b>		
IR T	0.0104	0.0113
IR C	0.0184	0.0016
IC95	0.27/1.2	1.55/30.53
<b>STI</b>		
IR T	0.0235	0.0067
IR C	0.0544	0.0067
IC95	0.19/0.97	0.2/4.95
<b>Nursing, Hospi</b>		
IR T	0.0181	0.0212
IR C	0.0166	0.0127
IC95	0.58/2.06	0.89/3.11

#### 4.1.4 Health care costs linked to disability for the NIHDI

Table 4.16: Average costs of health care services and technical equipment for six months (per month, per patient)

	Interv.		Nurs.		Phys.		Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>														
Mean T	0	114.3	4.1	125	11.6	38	0.5	9.3	0.5	10.3	2.1	3.6		
Mean C	0	0	6.3	26.4	25	28.5	0.9	4	1.9	3.5	0.6	2.8		
IC95	0/0	111/117	-4/0	74/125	-19/-9	1/19	-1/0	-1/13	-3/0	3/10	0/4	-3/4		
<b>Nursing</b>														
Mean T	0	131.4	399.5	578.5	60.8	79.2	8.8	15.8	14.4	28.7	2.4	2.3		
Mean C	0	0	403.5	488.8	63.7	65.9	8	5.8	18	19.5	3.2	4.1		
IC95	0/0	128/134	-37/32	45/139	-11/5	4/23	-4/6	3/19	-8/0	4/15	-3/1	-5/1		
<b>Hospi</b>														
Mean T	0	85.5	4.3	112.2	16.6	53.1	1.2	4.1	0.6	6.2	4.5	0		
Mean C	0	0	8.7	45.9	20	35.3	1.4	5.7	1.8	4.6	0.2	5.5		
IC95	0/0	80/91	-10/0	18/120	-14/7	-1/39	-3/2	-7/4	-4/1	-5/7	0/11	-13/0		
<b>STI</b>														
Mean T	0	247.3	31.5	582	6.5	62.9	0.7	4.1	2.3	76.1	0	0		
Mean C	0	0	100	188.8	33.8	44.3	25.3	11.7	8.9	19.5	0	0		
IC95	0/0	226/265	-129/-18	238/560	-45/-13	-13/50	-52/-4	-17/1	-16/2	32/81	0/0	0/0		
<b>Nursing, hospi</b>														
Mean T	0	103.8	273	548.6	43.2	90.7	5	11.2	20.9	19.8	0	0		
Mean C	0	0	364.5	510.6	71.9	86.5	4.5	18.6	11.9	32.9	8	0		
IC95	0/0	96/111	-185/7	-90/167	-52/-9	-23/34	-4/7	-20/4	-4/21	-28/1	-16/-2	0/0		

Table 4.17: Average costs of health care services and technical equipment for twelve months (per month, per patient)

	Interv.		Nurs.		Phys.		Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>														
Mean T	0	108.5	6.4	179.3	12.8	43.5	0.4	7	0.4	9.2	2.4	3.2		
Mean C	0	0	3.7	34.5	17.1	28.9	0.5	3.4	1.4	3.9	0.6	3.1		
IC95	0/0	105/112	1/4	113/185	-8/0	6/24	-1/0	-1/8	-2/0	2/9	0/3	-2/2		
<b>Nursing</b>														
Mean T	0	122.3	391.1	621.7	60.5	82.2	8.5	20.3	14.9	24.5	1.5	2.3		
Mean C	0	0	254.3	479.1	43.8	63	5.1	6.6	12.4	19.7	2	3		
IC95	0/0	119/126	111/165	94/195	10/24	10/29	1/6	5/24	0/6	1/10	-2/1	-2/1		
<b>Hospi</b>														
Mean T	0	81.3	3.7	132.3	15.8	55.9	1	8.5	0.5	5.7	2.2	0		
Mean C	0	0	4.4	49	11.4	28.3	1	5.1	1	5.9	0.1	3.3		
IC95	0/0	75/87	-3/2	28/143	-3/12	7/50	-2/1	-4/12	-2/0	-6/4	0/5	-7/0		
<b>STI</b>														
Mean T	0	226.2	125.4	777.3	18.8	78.4	0.7	18.1	2.4	47.9	0	5.8		
Mean C	0	0	66.4	203.6	25.6	42.8	13.7	12.9	6.9	14.9	0	3		
IC95	0/0	201/250	13/109	386/766	-22/6	-5/74	-27/-2	-14/34	-9/-1	19/48	0/0	-9/17		
<b>Nursing, hospi</b>														
Mean T	0	96.4	281.3	563	43.6	93.6	7	8	16.3	21.1	1.5	0		
Mean C	0	0	249.2	519.1	51.2	82.7	2.8	17.2	10.9	25.2	4	2		
IC95	0/0	88/105	-46/113	-107/191	-25/12	-20/41	1/8	-19/-1	-3/14	-14/8	-8/2	-5/0		

Table 4.18: Average costs of health care services and technical equipment for six months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef
<b>No event</b>												
Mean T	3.1	10.4	11.4	31.6	53.9	14.8	28.1	1.8	2.4	617.5	743	
Mean C	0.8	0.8	0	2.1	22.5	18	23.5	3.2	2.5	602.1	363.3	
IC95	-0.7/7	3.5/17	6/18	20.2/40	10.6/53	-5.5/-1	0.8/8	-2.1/-1	-0.9/1	-136/183	210.1/561	
<b>Nursing</b>												
Mean T	10.4	20.8	16	40.4	64.7	34.3	49.5	2.5	1.9	788.2	750.6	
Mean C	8.9	16.5	0.3	17	38.2	42.4	43	2.7	2.4	954.2	680.4	
IC95	-4.4/8	-5.6/14	10/22	11/35	5.8/46	-11.5/-5	-1.4/17	-1.1/1	-1.3/0	-310/-29	-74.4/216	
<b>Hospi</b>												
Mean T	0	0.9	6.5	50.8	73.7	14.9	25.1	0.3	2.1	1419.2	1595.5	
Mean C	0	1	6.5	34.3	219.3	20.6	24.6	0.6	2.7	1339.2	987.2	
IC95	0/0	-3.1/2	-9.8/10	-23.6/61	-245.1/-39	-10.7/0	-6.4/8	-0.8/0	-2.5/2	-256.9/387	-5.3/1265	
<b>STI</b>												
Mean T	0	27.6	223	70.2	94.2	4.2	53.6	0	2.2	664.1	336.9	
Mean C	43.7	47.2	204.2	150.4	461.7	13	17.8	0.6	1	145.9	383.1	
IC95	-104.1/0	-97.5/47	-94.8/122	-175.4/8	-555.7/-167	-14.5/-3	18.3/54	-1.3/0	-0.8/3	142.2/936	-331.2/253	
<b>Nursing, hospi</b>												
Mean T	11.7	23.2	9.3	62	134	38.1	46.7	1.6	1.9	1615.5	1123.9	
Mean C	0	4	0	44.2	52.5	52.3	51.7	2.1	1.2	2133.8	1503.2	
IC95	1.5/25	-1/47	1.4/20	-34.6/70	3.4/171	-25.2/-4	-22.3/16	-1.9/1	-0.5/2	-1098.4/-37	-871.3/98	

Table 4.19: Average costs of other health care services for twelve months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>												
Mean T	2.7	11.3	8.4	31.8	99.2	16.5	33.3	1.8	2.6	527.1	710.3	
Mean C	0.4	1.8	0.2	2.5	35.5	12	23.9	2	2.3	557.2	399.2	
IC95	0/6	2.4/18	4.8/12	21.1/38	35.6/91	2.8/7	5.5/14	-0.8/0	-0.6/1	-134.2/89	153.2/468	
<b>Nursing</b>												
Mean T	9.4	21.2	10.1	38	123.5	35.7	54.1	2.3	1.9	712.5	763.2	
Mean C	5	17.8	0.1	23.6	73.5	29.1	41.9	1.8	2.3	997.1	760.3	
IC95	-0.1/10	-6.1/13	6.7/14	4/25	19/77	3.7/9	4/23	-0.2/1	-1.1/0	-388.8/-180	-132.7/138	
<b>Hospi</b>												
Mean T	0	2.7	3.2	53.4	121.2	15.2	32.8	0.6	1.8	741.4	1347.9	
Mean C	0	1.4	3.2	28.9	226.4	12.9	25.2	0.4	2.5	769.9	766.9	
IC95	0/0	-2.7/7	-4.9/5	-12.8/71	-226.6/2	-1.7/6	-2.2/18	-0.4/1	-2.3/1	-226.1/182	-19.7/1241	
<b>STI</b>												
Mean T	5.6	20.6	143.5	81.9	196.3	13.3	77	0.2	1.8	919.7	334.7	
Mean C	29	58.8	150.1	127.3	519	9.3	18.5	0.3	0.6	388.8	267.1	
IC95	-68.2/8	-117.5/29	-74/62	-119.7/26	-553.9/-71	-0.2/8	33.8/84	-0.5/0	-0.1/3	34.2/1020	-142.1/321	
<b>Nursing, hospi</b>												
Mean T	12	21.1	4.7	61.3	184.2	33	46.4	1.5	1.6	843.3	1091.3	
Mean C	0	4.3	0	54.3	83.9	33.5	53.7	1.5	1.7	1351.9	1367.8	
IC95	0.6/28	-1.4/44	0.9/10	-43.9/64	7.2/207	-8.3/7	-26.4/17	-1.3/1	-1.2/1	-817.4/-237	-700.9/161	

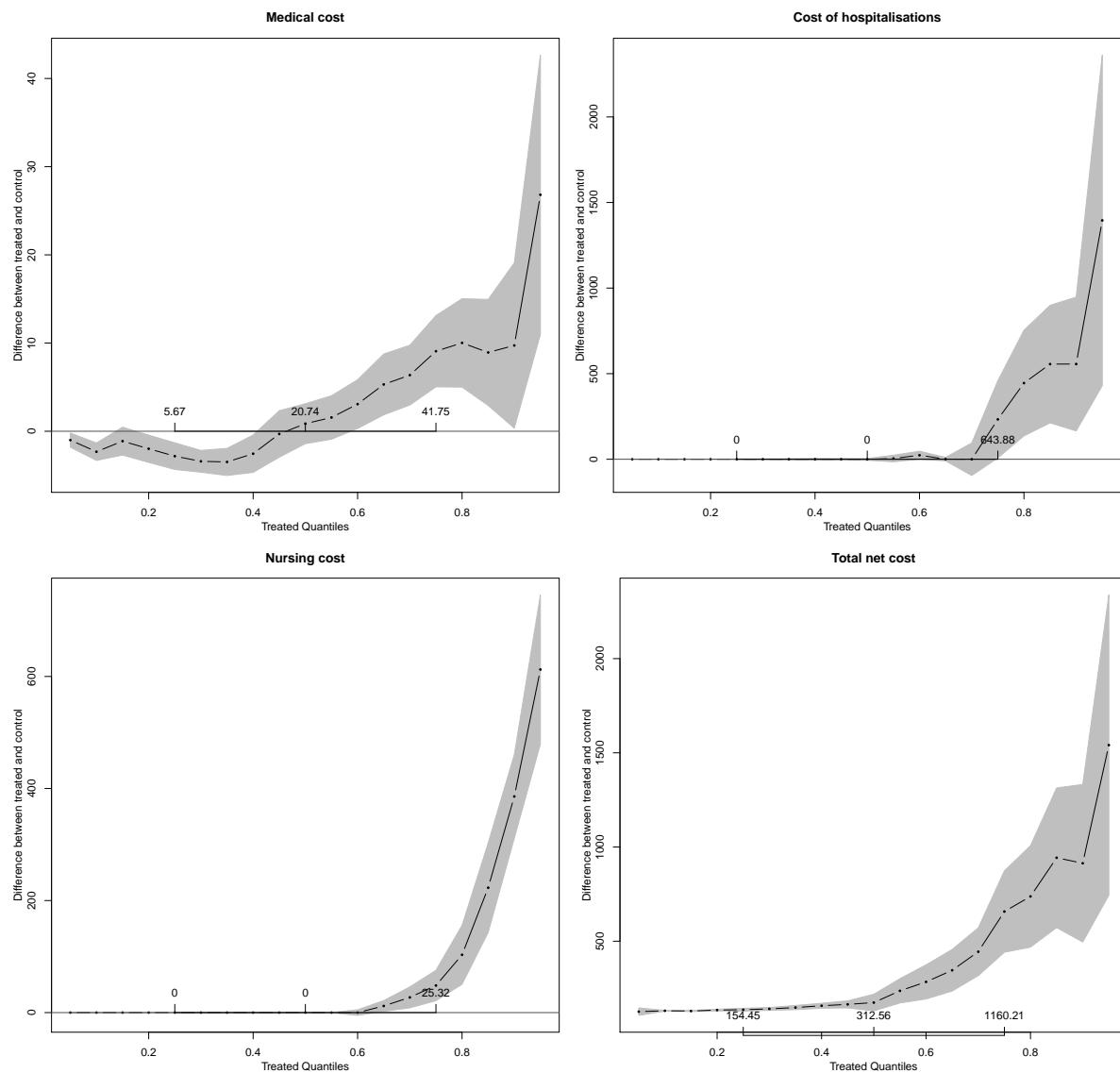


Figure 4.11: Graphs of the differences of costs between treated and control, **for the NHDI, for six months, for the group of No Event**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

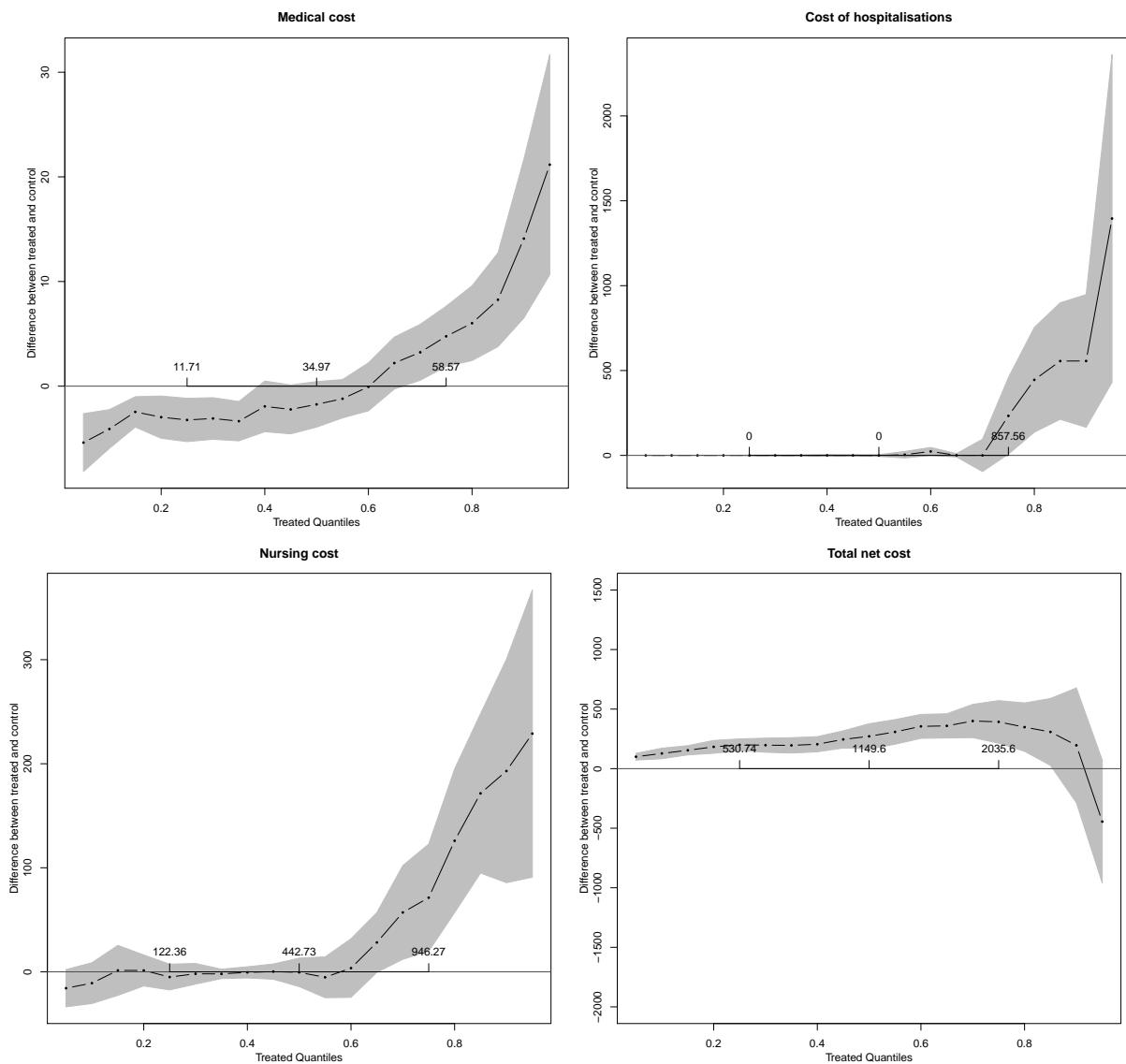


Figure 4.12: Graphs of the differences of costs between treated and control, **for the NIHDI, for six months, for the group of Nursing**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

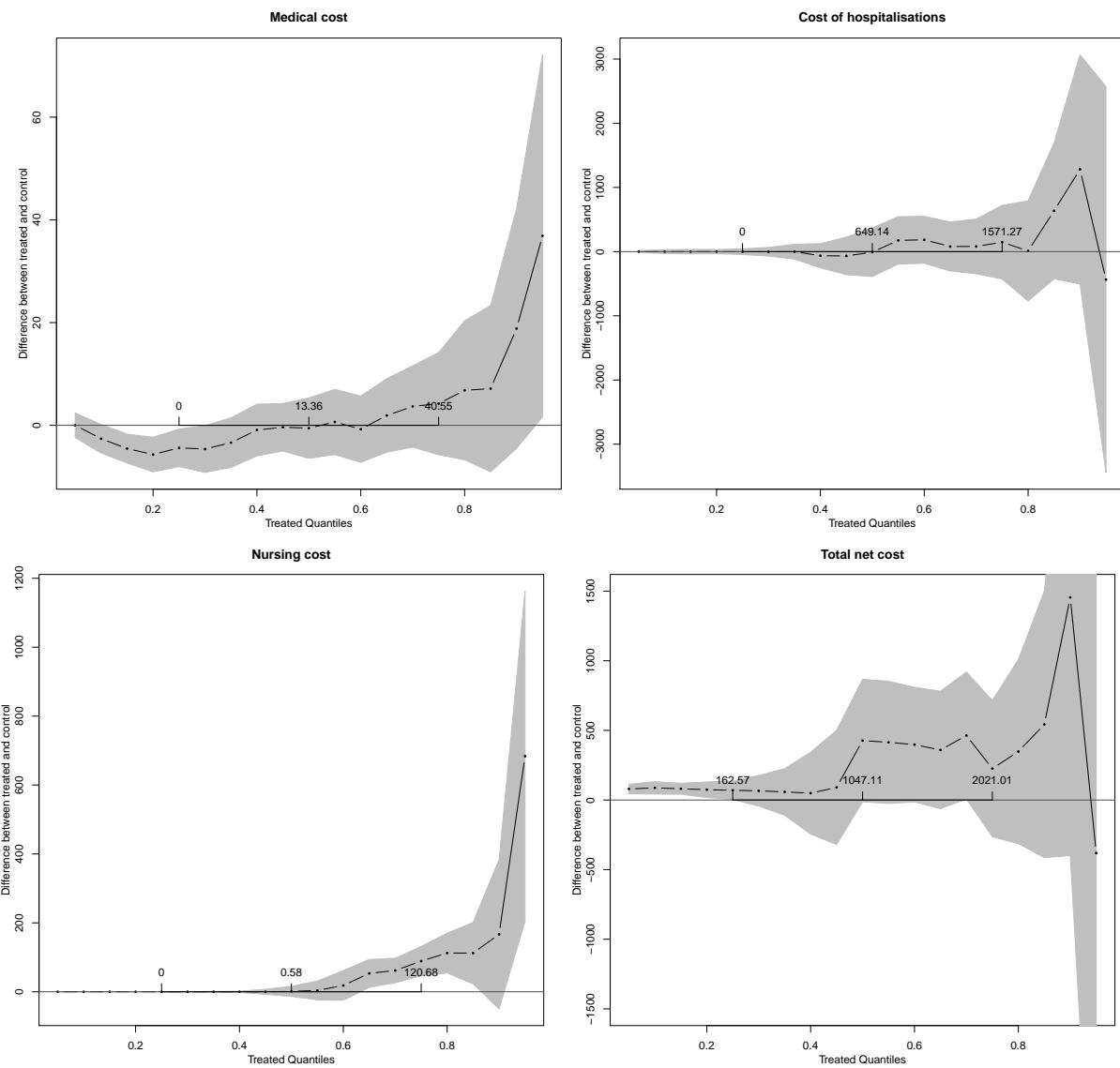


Figure 4.13: Graphs of the differences of costs between treated and control, **for the NIHDI for six months, for the group of Hospi** (per month, per patient), adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

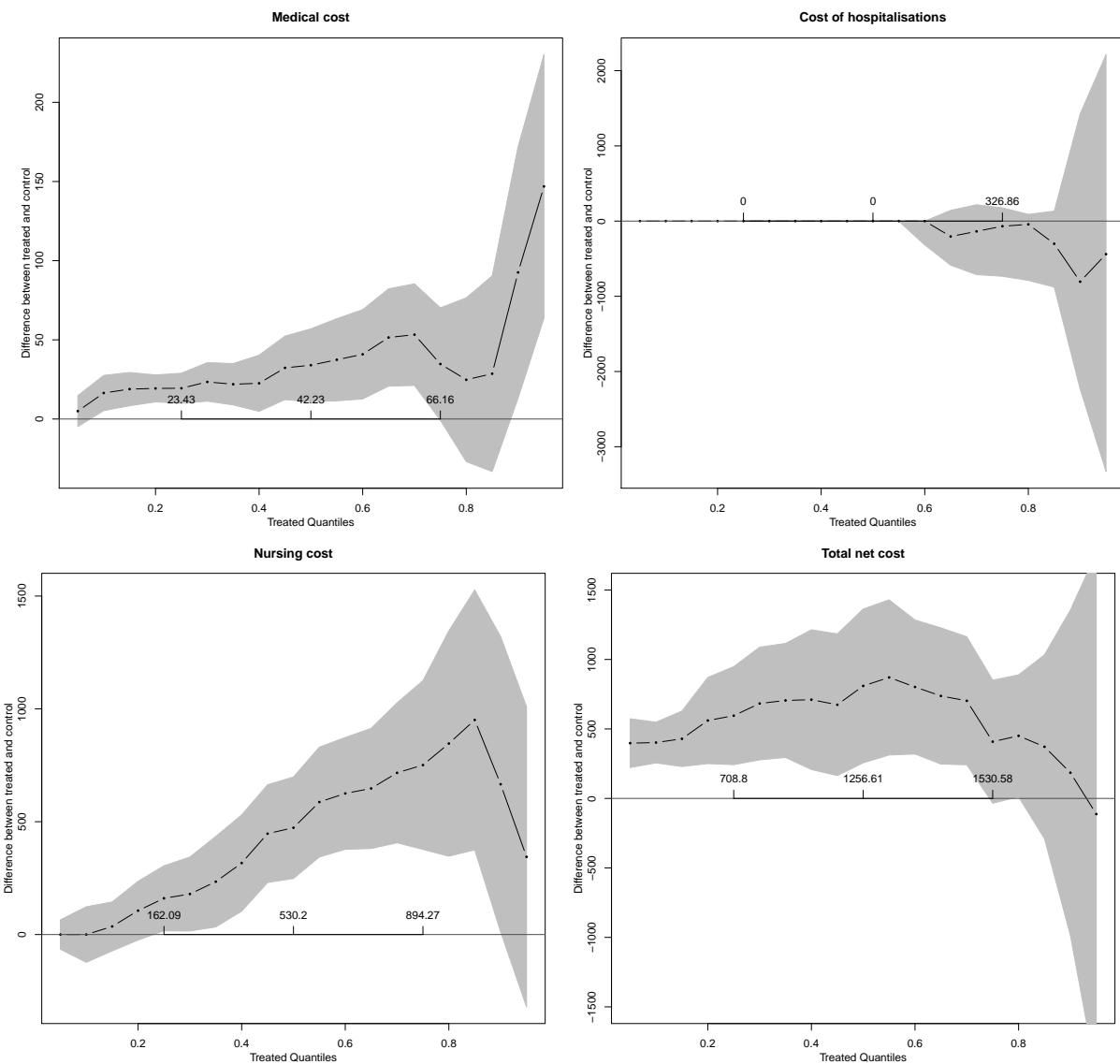


Figure 4.14: Graphs of the differences of costs between treated and control, **for the NIHDI for six months for the group of STI** (per month, per patient), adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

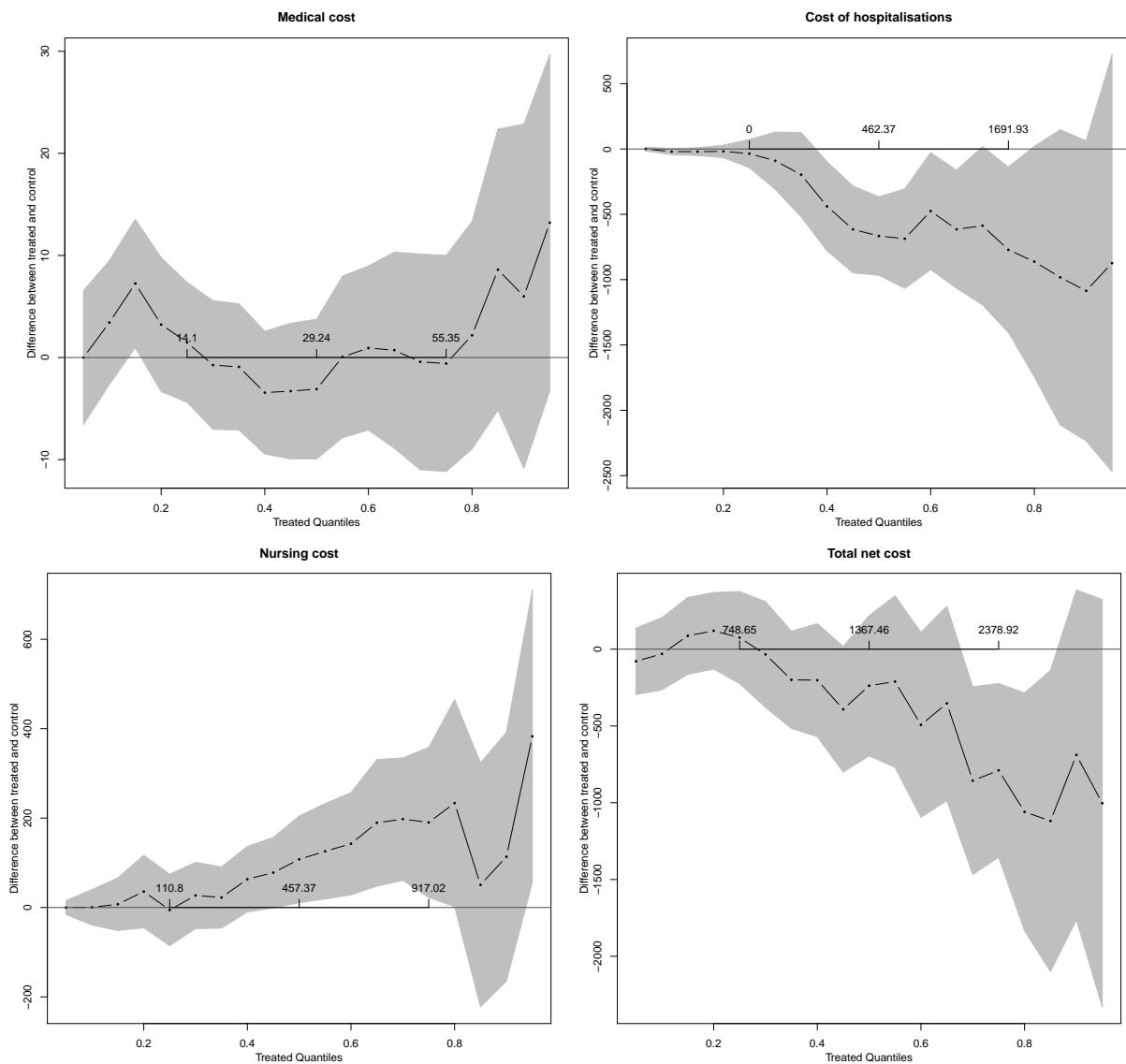


Figure 4.15: Graphs of the differences of costs between treated and control, **for the NIHDI, for six months, for the group of Nursing, Hospi,** adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

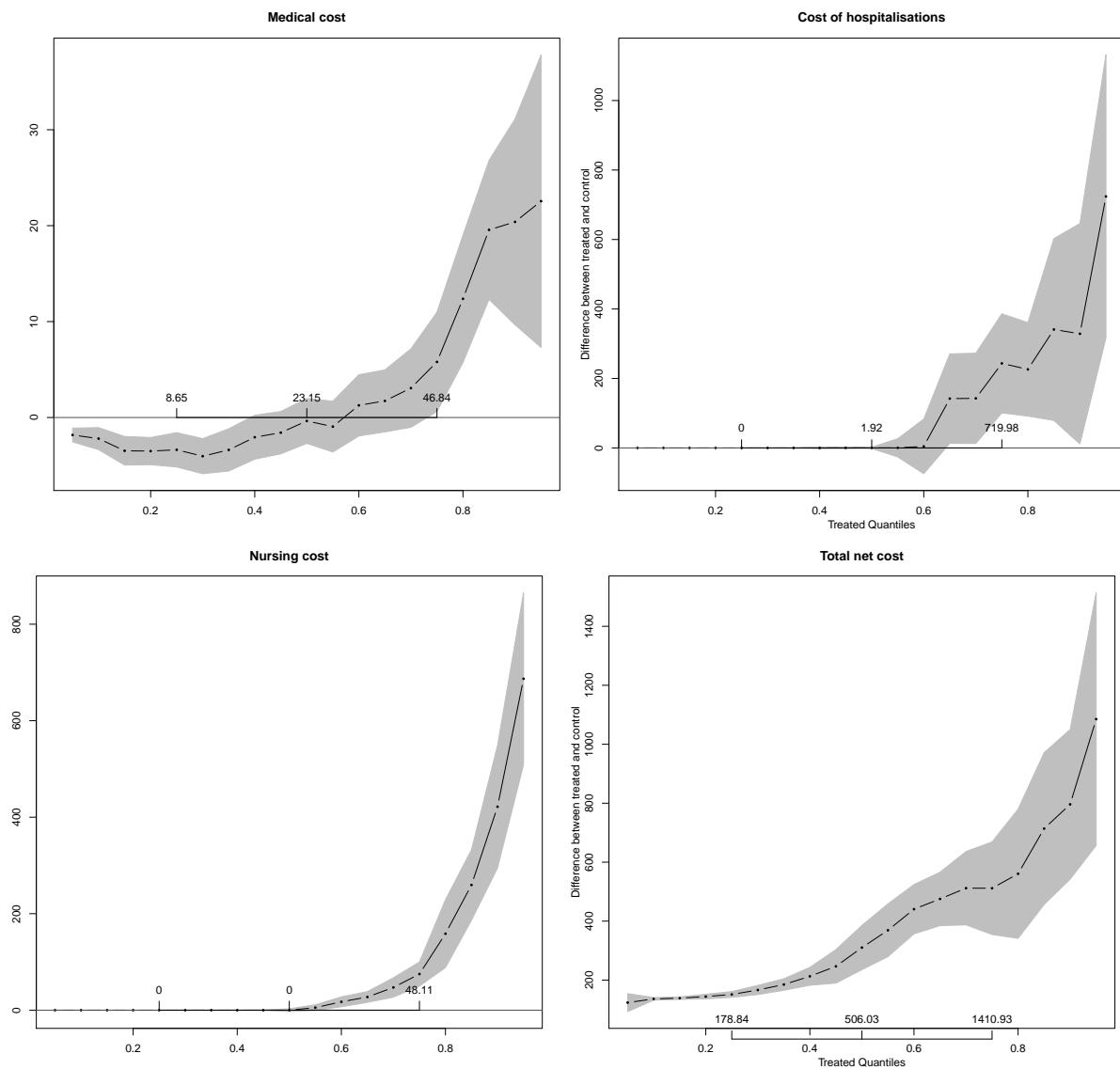


Figure 4.16: Graphs of the differences of costs between treated and control, **for the NIHDI, for twelve months, for the group of No Event**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

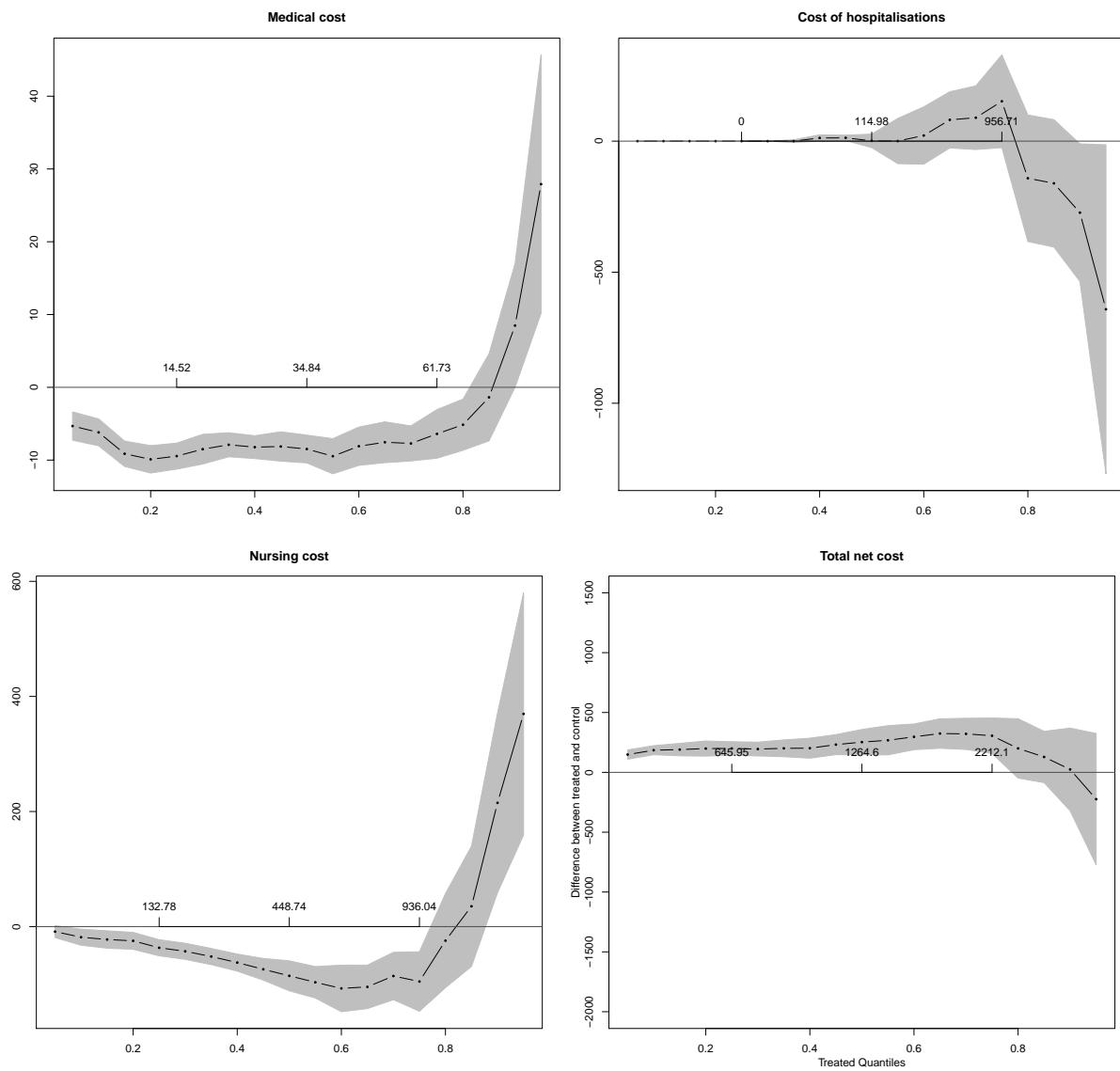


Figure 4.17: Graphs of the differences of costs between treated and control, **for the NIHDI, for twelve months, for the group of Nursing**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive

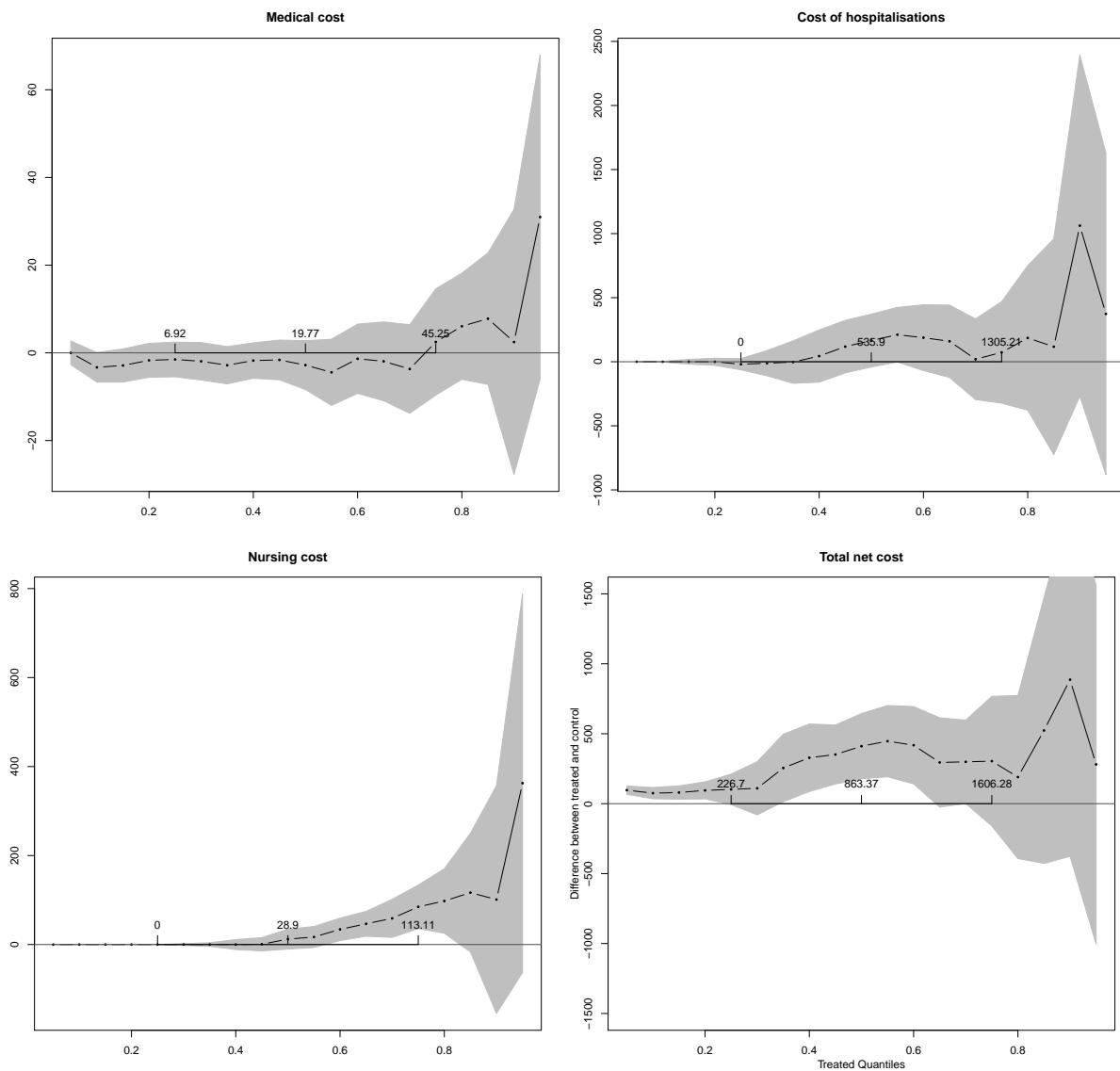


Figure 4.18: Graphs of the differences of costs between treated and control, **for the NIHDI, for twelve months, for the group of Hospi**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

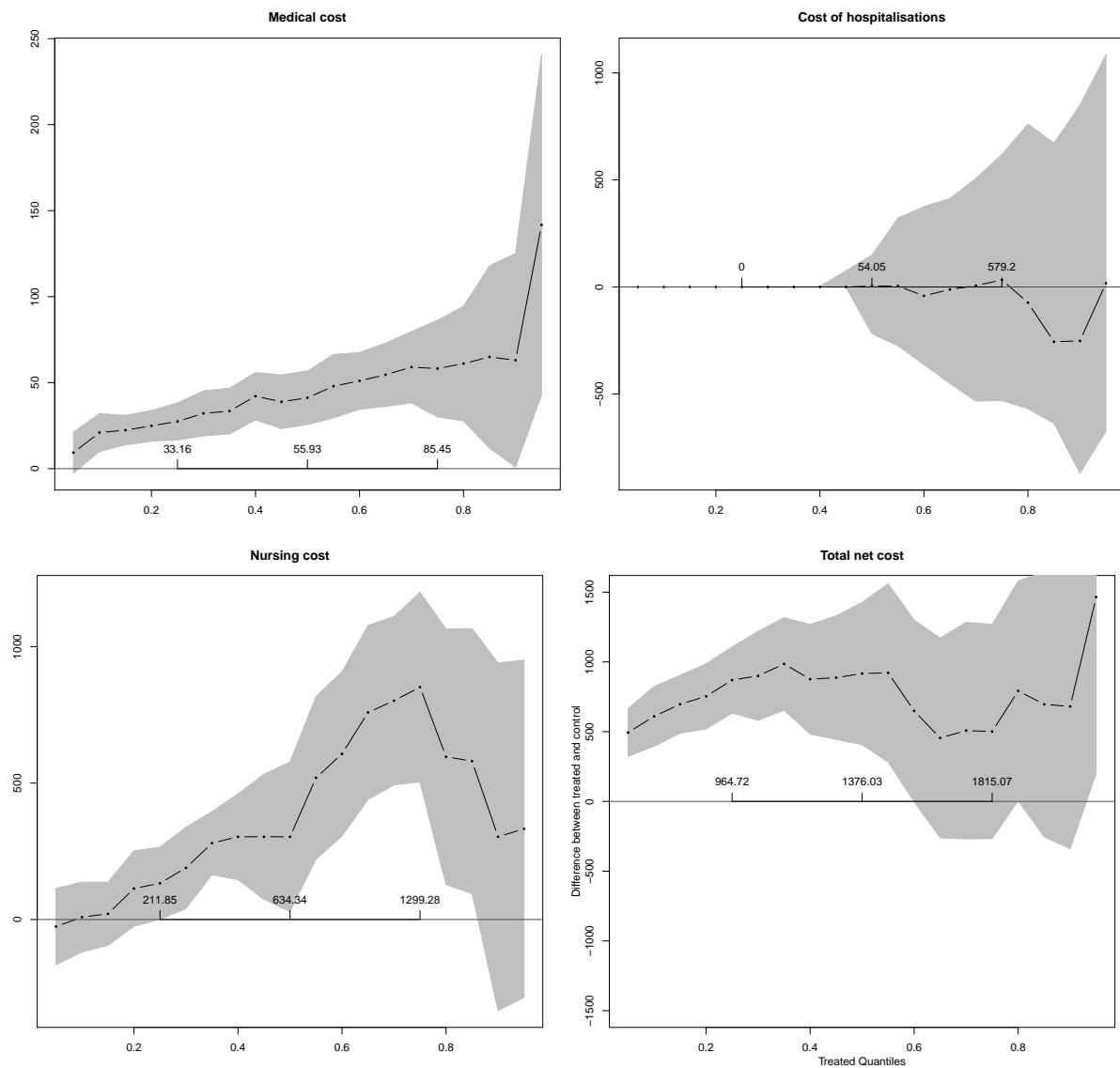


Figure 4.19: Graphs of the differences of costs between treated and control, **for the NIHDI, for twelve months, for the group of STI**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

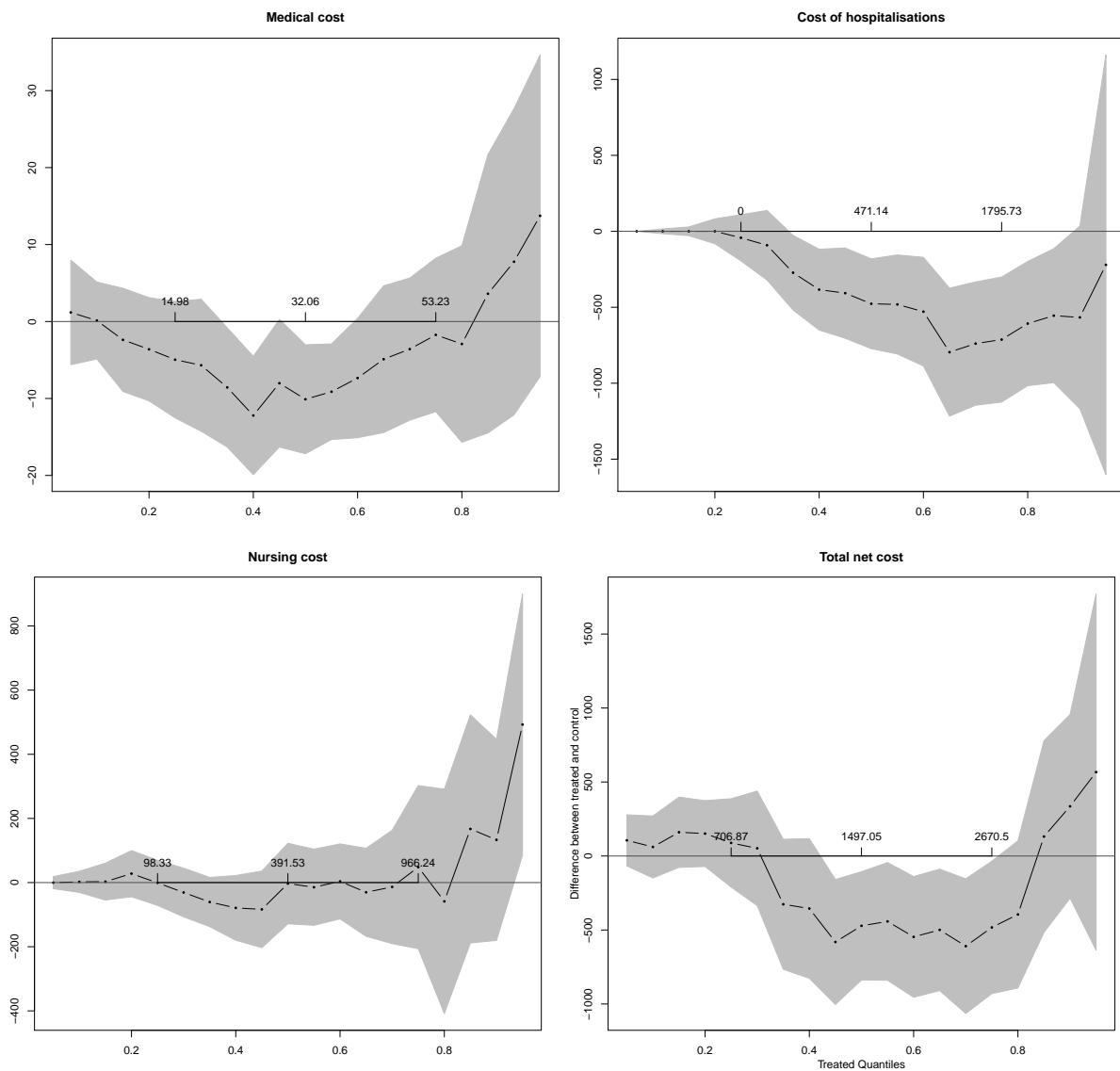


Figure 4.20: Graphs of the differences of costs between treated and control, **for the NIHDI, for twelve months, for the group of Nursing, Hospi**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

#### 4.1.5 Health care costs linked to disability for the patients

Table 4.20: Average costs of health care services and technical equipment for six months (per month, per patient)

	Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>										
Mean T	0.1	1.8	2.2	7.3	0	0	0	0	3	4.2
Mean C	0.1	0.3	5.3	5.7	0	0	0	0	0.7	5
IC95	-0.1/0.1	0.7/2.4	-4.2/-1.9	-0.1/3.3	0/0.1	0/0	0/0	0/0	-0.8/6	-6.6/5.5
<b>Nursing</b>										
Mean T	1.4	1.9	10.4	12.3	0.4	0	0	0	2.5	1.1
Mean C	1	1.5	12.2	11.5	0	0	0.1	0.1	3.6	2.9
IC95	-0.3/1.1	-0.6/1.3	-3.7/0.2	-1.2/2.8	0/1.1	0/0	-0.3/0	-0.1/0	-4.1/1.9	-3.9/0.4
<b>Hospi</b>										
Mean T	0.1	1.8	4.1	13.5	0	0	0	0	6.3	0
Mean C	0.5	1.9	7.6	11.3	0	0	0	0	0	2.4
IC95	-1.1/0	-2.4/2.1	-7.6/0.3	-4.9/9.5	0/0	0/0	0/0	0/0	0/18.6	-6.8/0
<b>STI</b>										
Mean T	0	6.9	1.1	10.4	0	0	0	0.4	0	0
Mean C	1	3.4	4.3	7.3	0	0.1	0	0	0	0
IC95	-3/0	-7.1/20.2	-5.7/-0.7	-3.7/10.8	0/0.1	-0.3/0	0/0	0/1.2	0/0	0/0
<b>Nursing, Hospi</b>										
Mean T	2.8	7.3	9.7	17.4	0	0.3	0	0	0	0
Mean C	1.4	0.7	13.4	17.3	0	0.7	0	0	6.4	0
IC95	-1.3/5	1.5/12	-7.7/0.2	-6.2/6.1	0/0	-1.9/0.7	0/0	0/0	-16.9/-0.1	0/0

Table 4.21: Average costs of health care services and technical equipment for twelve months (per month, per patient)

	Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>										
Mean T	0.1	2.2	2.6	8.2	0	0.1	0	0	2.7	3.1
Mean C	0.1	0.5	3.5	6	0	0	0	0	0.4	3
IC95	0/0.1	0.9/2.8	-1.7/-0.1	0.4/4.1	0/0.1	0/0.1	0/0	0/0	0.3/4.6	-3/3.7
<b>Nursing</b>										
Mean T	1.5	2	10.3	13	0.5	0	0	0.1	1.6	1.1
Mean C	0.6	1.4	8.3	11.3	0.1	0	0.1	0.1	2.2	3.1
IC95	0.3/1.5	-0.4/1.7	0.5/3.6	-0.3/3.6	-0.1/1.1	0/0	-0.1/0	-0.1/0.1	-2.2/0.9	-3.8/-0.4
<b>Hospi</b>										
Mean T	0.1	1.4	3.5	12.6	0.1	0.7	0	0	3.1	0
Mean C	0.3	1.6	4.1	8.2	0	0	0	0	0	2.1
IC95	-0.5/0	-2.1/1.6	-3/1.7	-0.7/11.1	0/0.2	0/2.6	0/0	0/0	0/9.3	-5/-0.1
<b>STI</b>										
Mean T	0.1	7.4	2.5	14.1	0	0	0.1	0.2	0	12.6
Mean C	0.5	3.8	3.3	6.7	0	0	0	0	0	18.1
IC95	-1.8/0.3	-7.9/21	-2.9/1	-1.3/16.7	0/0.1	-0.1/0	0/0.2	0/0.6	0/0	-47.1/37.9
<b>Nursing, Hospi</b>										
Mean T	4.4	6.8	9.6	17.3	0	0.2	0	0	0.7	0
Mean C	1.2	0.8	8.8	18.1	0	0.3	0	0	3.2	0.2
IC95	0/7	1.4/11.6	-2.3/4	-6.7/5.7	0/0	-1/0.4	0/0	0/0	-7.4/1.4	-0.4/0

Table 4.22: Average costs of other health care services for six months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Bef	Aft	Bef	Aft	
<b>No event</b>												
Mean T	1	3.3	10.8	30.2	56.1	2.2	3.8	0.4	0.4	41.1	45.5	
Mean C	0.3	0.2	0.1	2.6	45.2	4.2	4.9	0.9	0.7	48.2	32.2	
IC95	-0.2/2.2	1.2/5.3	5.5/17.3	17.1/39.9	-23.2/41.4	-2.5/-1.4	-1.7/-0.3	-0.7/-0.2	-0.5/-0.1	-22.7/8.2	-0.5/28.7	
<b>Nursing</b>												
Mean T	3.4	6.4	13.3	36.3	57.7	4.1	4.7	0.5	0.3	52.3	40.3	
Mean C	2.8	4.4	0.3	17.9	36.6	6.2	5.7	0.6	0.5	65.7	33.9	
IC95	-1.4/2.6	-0.8/5	8.3/18.2	5.8/31.7	3.7/40.1	-2.7/-1.5	-1.8/-0.1	-0.3/0	-0.3/0	-26.8/-0.4	-2.9/16.5	
<b>Hospi</b>												
Mean T	0	0.3	5.2	46.7	77.9	3.1	4.5	0.1	0.4	81.4	83.6	
Mean C	0	0.2	6.1	31.9	248.3	4.3	4.8	0.4	1.2	160	74.6	
IC95	0/0	-0.4/0.6	-9.1/7.4	-22.8/55.2	-301.6/-51.9	-2.7/0.2	-1.9/1.3	-0.6/0	-1.8/0	-165.7/-9	-44.1/64.3	
<b>STI</b>												
Mean T	0	8.7	218.9	74.1	82.1	0.3	5.6	0	0.2	43.2	18.8	
Mean C	13.9	14.2	313.8	197.2	546.2	1.6	2.7	0.2	0.4	8	23.3	
IC95	-33.2/0	-29.7/16.2	-280.7/77	-220.3/-38.7	-652.8/-274.9	-2.2/-0.6	0.3/5.6	-0.4/0	-0.6/0.3	6.4/66.8	-36.3/22.4	
<b>Nursing, hospi</b>												
Mean T	3.7	7.3	9.6	48.1	112.9	5.8	5.6	0.4	0.4	91.5	56.1	
Mean C	0	1	0	34.5	41	8.6	7.6	0.5	0.2	136.6	95.9	
IC95	0.4/8.2	-0.1/14.1	1.6/19.1	-25.1/51.5	-0.1/139.9	-5.3/-0.3	-4.3/0.3	-0.4/0.3	-0.1/0.4	-81.6/-9.5	-76/-2.6	

Table 4.23: Average costs of other health care services for twelve months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>												
Mean T	1.8	7.2	7.9	30	98.6	2.4	4.4	0.5	0.5	38	42	
Mean C	0.3	0.6	0.2	2.6	60.2	2.8	4.9	0.6	0.7	49.4	31.6	
IC95	0.1/3.8	2/11.9	4.3/12.1	19.5/36.3	-0.3/79.6	-0.9/0	-1.3/0.2	-0.3/0.1	-0.4/0.1	-25.8/5.4	-2/23.8	
<b>Nursing</b>												
Mean T	6	13	8.4	35	108.5	4.3	5	0.4	0.3	45.5	37.1	
Mean C	3.2	8	0.2	24.6	69.1	4.2	5.6	0.4	0.5	69.6	43.1	
IC95	-0.4/6.3	0.2/9.8	5.6/11.3	0.5/20.9	17.3/66.1	-0.4/0.6	-1.4/0.3	-0.1/0.1	-0.3/-0.1	-34.7/-13.7	-14.1/3.8	
<b>Hosp</b>												
Mean T	0	1.7	2.6	51.9	121.9	3	5.2	0.2	0.4	43.7	61.2	
Mean C	0	0.4	3	26.2	257.1	2.6	4.9	0.3	1.1	85.3	54.6	
IC95	0/0	-0.6/4.4	-5/3.3	-6.8/63.8	-273.9/-14.7	-0.7/1.4	-1.5/2.2	-0.5/0.3	-1.7/0	-84.2/-5.6	-26.3/41.1	
<b>STI</b>												
Mean T	3.6	12.9	145.5	80.9	170.9	1.3	7.2	0	0.3	45.4	15.4	
Mean C	18.5	27.7	236.1	174.5	595.2	1.2	3.2	0.1	0.2	13.9	19.9	
IC95	-42.2/5.1	-60.7/21.1	-204.8/15.1	-178.1/-18.5	-638.3/-198	-0.6/0.7	1.4/6.7	-0.2/0.1	-0.3/0.4	-2.7/70.1	-27.3/17	
<b>Nursing, hosp</b>												
Mean T	7.6	13.2	4.8	48.4	156	5	5.4	0.3	0.3	51.7	52.3	
Mean C	0	2.5	0	44.6	74.2	5.5	7.2	0.3	0.4	79.8	82	
IC95	0.4/17.9	-1.3/26.1	0.8/9.5	-37/47	-0.9/168.8	-2.3/1.3	-4.2/0.2	-0.3/0.2	-0.4/0.2	-47.9/-9.6	-61.2/-2.3	

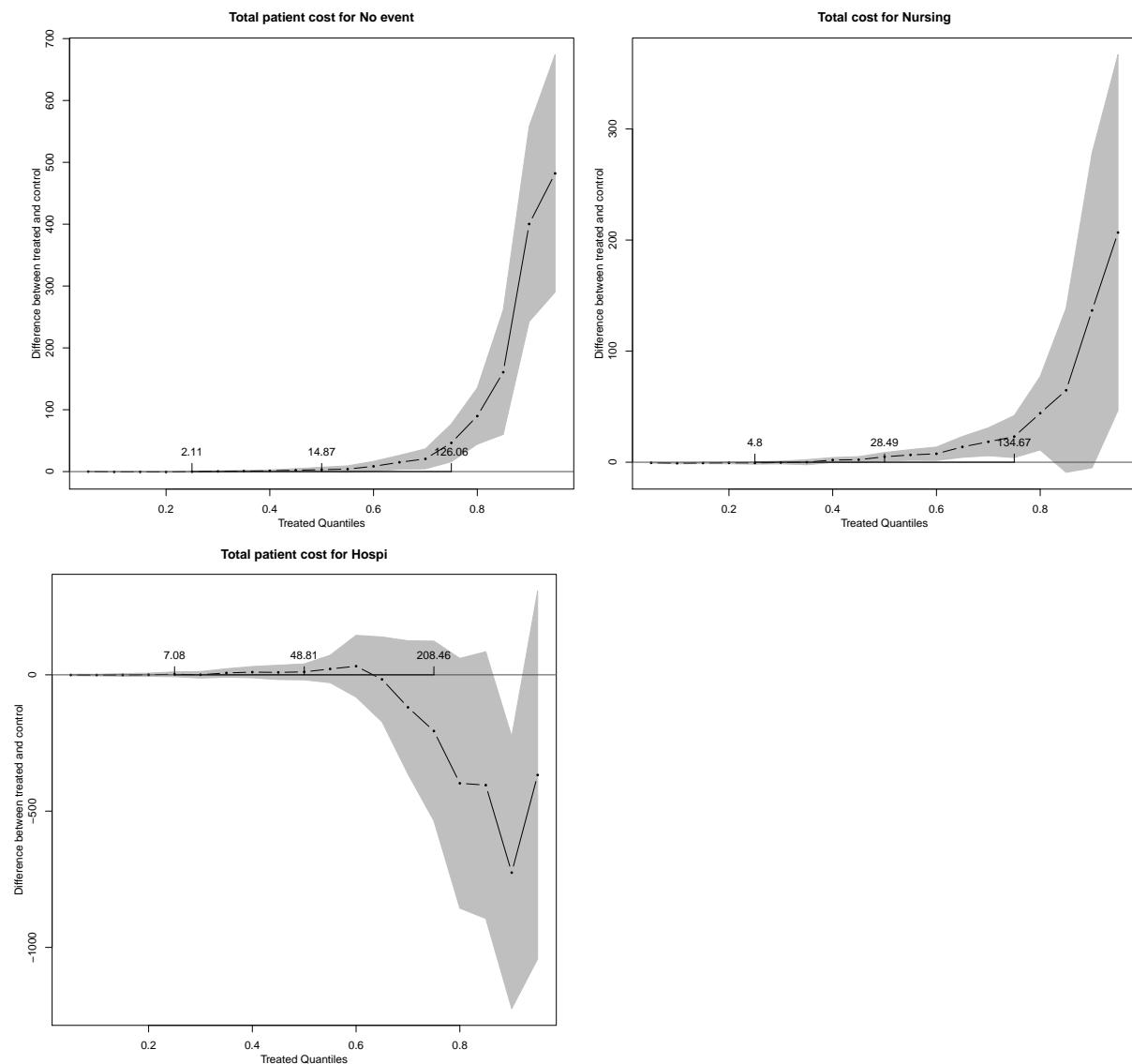


Figure 4.21: Graphs of the differences of the total cost for patients between treated and control, for six months, adjusted according to the proxy of the socio economic status and the number of days alive for the six months (per month, per patient)

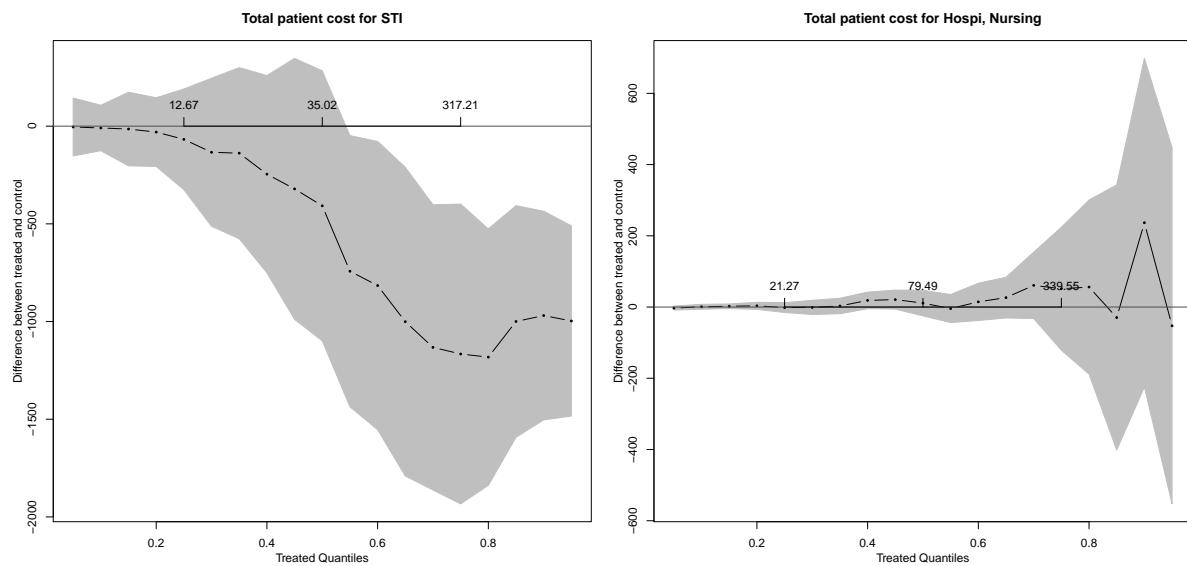


Figure 4.22: Graphs of the differences of the total cost for patients between treated and control, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

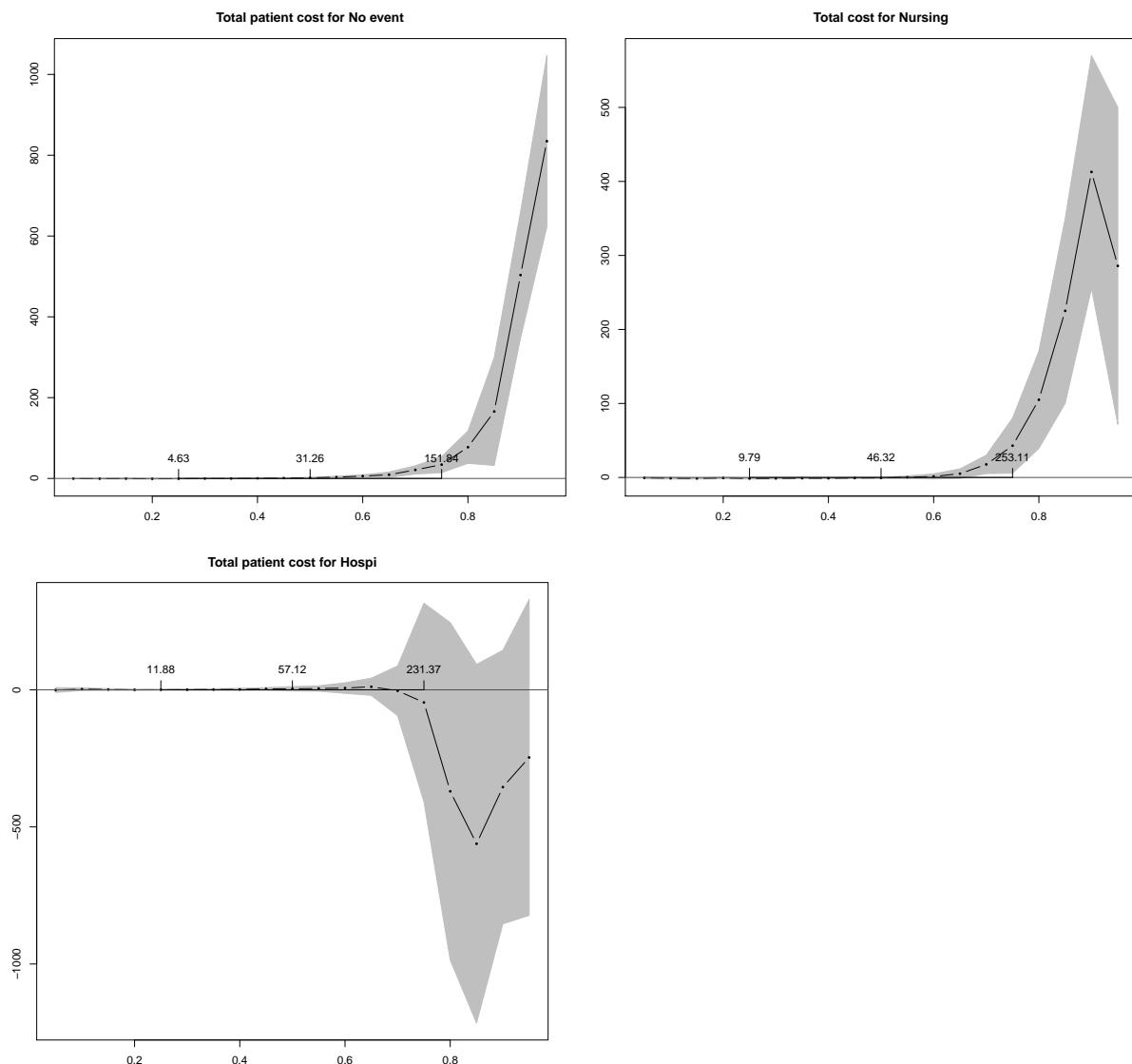


Figure 4.23: Graphs of the differences of the total cost for the patients between treated and control, for twelve months and adjusted according to the proxy of the socio economic status and the number of days alive for twelve months (per month per patient)

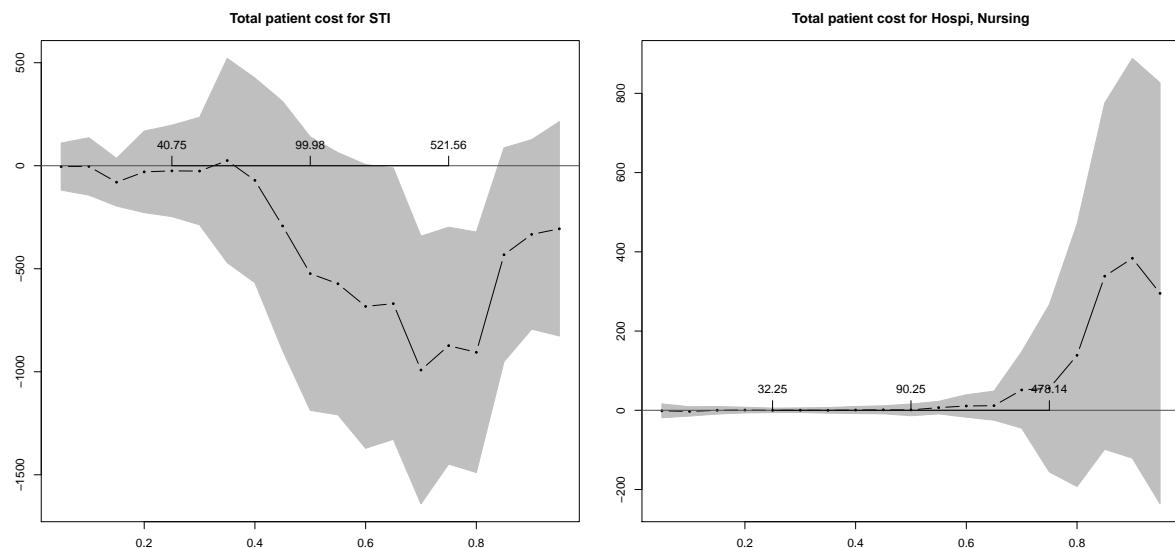


Figure 4.24: Graphs of the differences of the total cost for the patients between treated and control, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive for twelve months (per month per patient)

#### 4.1.6 Cost differences for the stakeholders between treated and control

Table 4.24: Average cost differences between treated and control group for six months (adjusted according to the level of cost before intervention, socio economic proxy and deaths)

	NIHDI Home		NIHDI Home + hosp. + inter		All NIHDI + patients + regions	
	Diff mean adj.	IC95	Diff mean adj.	IC95	Diff mean adj.	IC95
No event or Nursing	223	161.8/287.6	411	262.3/584.1	595	422.6/792
Hospi or STI or Nursing, Hospi	326	187.9/510.5	342	-26.7/767.7	16	-348.1/456.7

Table 4.25: Average cost differences between treated and control group per month (adjusted according to the level of cost before intervention, socio economic proxy and deaths)

	NIHDI Home		NIHDI Home + hosp. + inter		All NIHDI + patients + regions	
	Diff mean adj.	IC95	Diff mean adj.	IC95	Diff mean adj.	IC95
No Event	280	184.3/389.8	643	421.7/874.5	987	676.3/1367.2
Nursing	72	7.6/146.5	270	137.6/417.5	485	311.7/672.3
Hospi or STI or Nursing, Hospi	220	99.4/372.1	366	79/710.7	102	-203.4/447.4

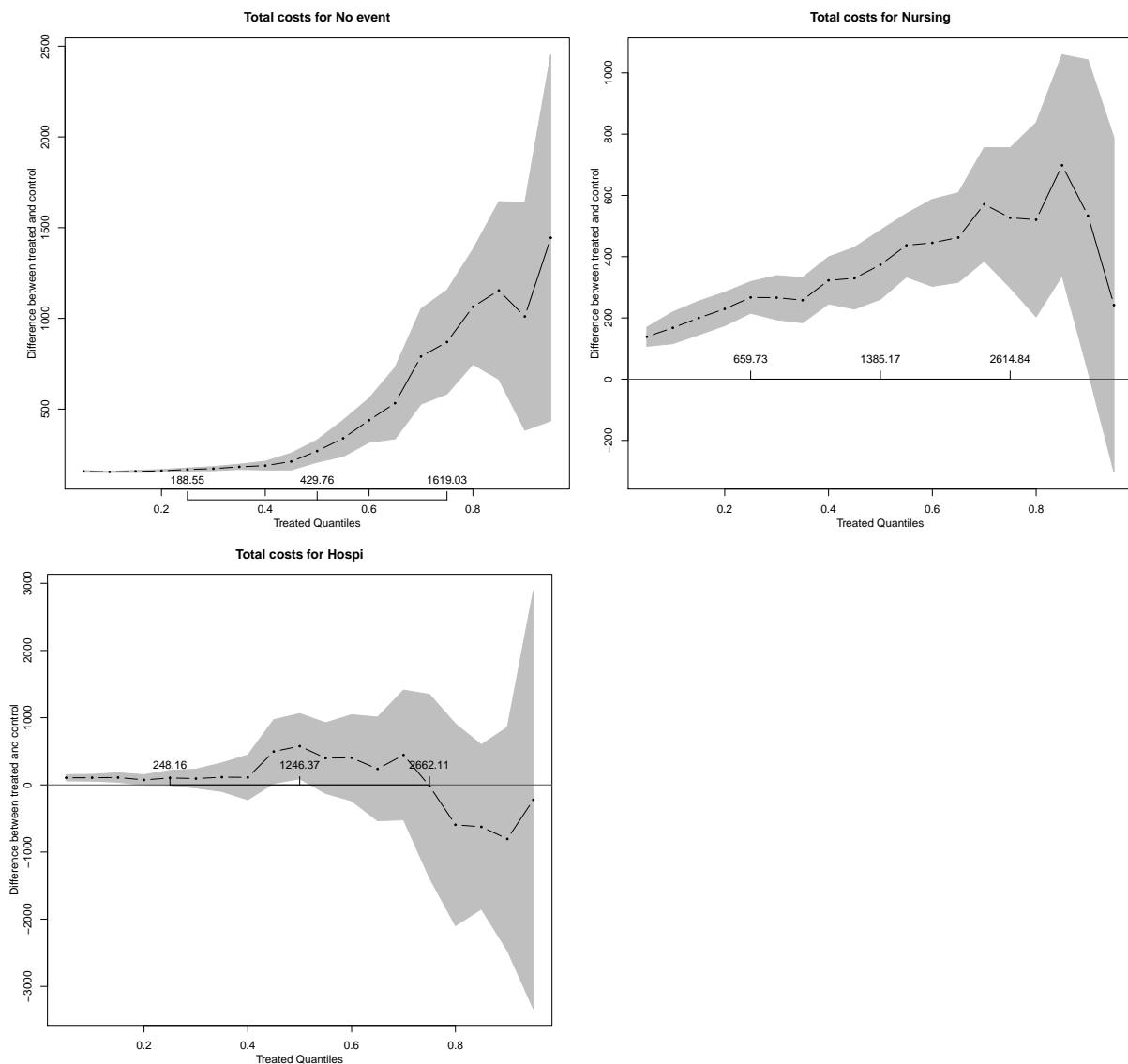


Figure 4.25: Graphs of the differences of the total cost for all stakeholders between treated and control, for six months and adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

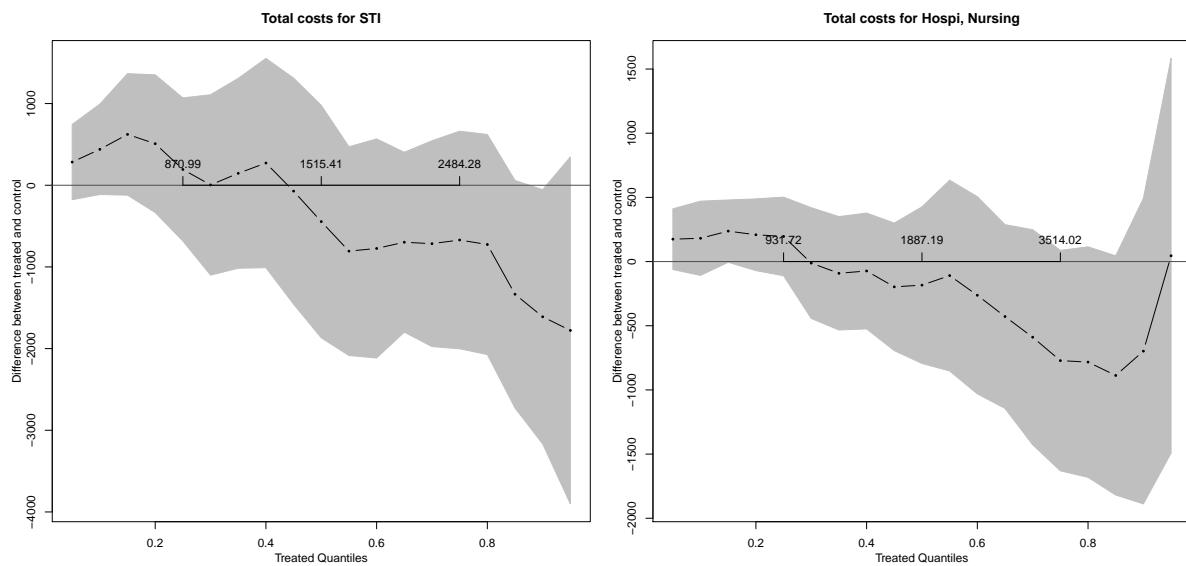


Figure 4.26: Graphs of the differences of the total cost for all stakeholders between treated and control, for six months and adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

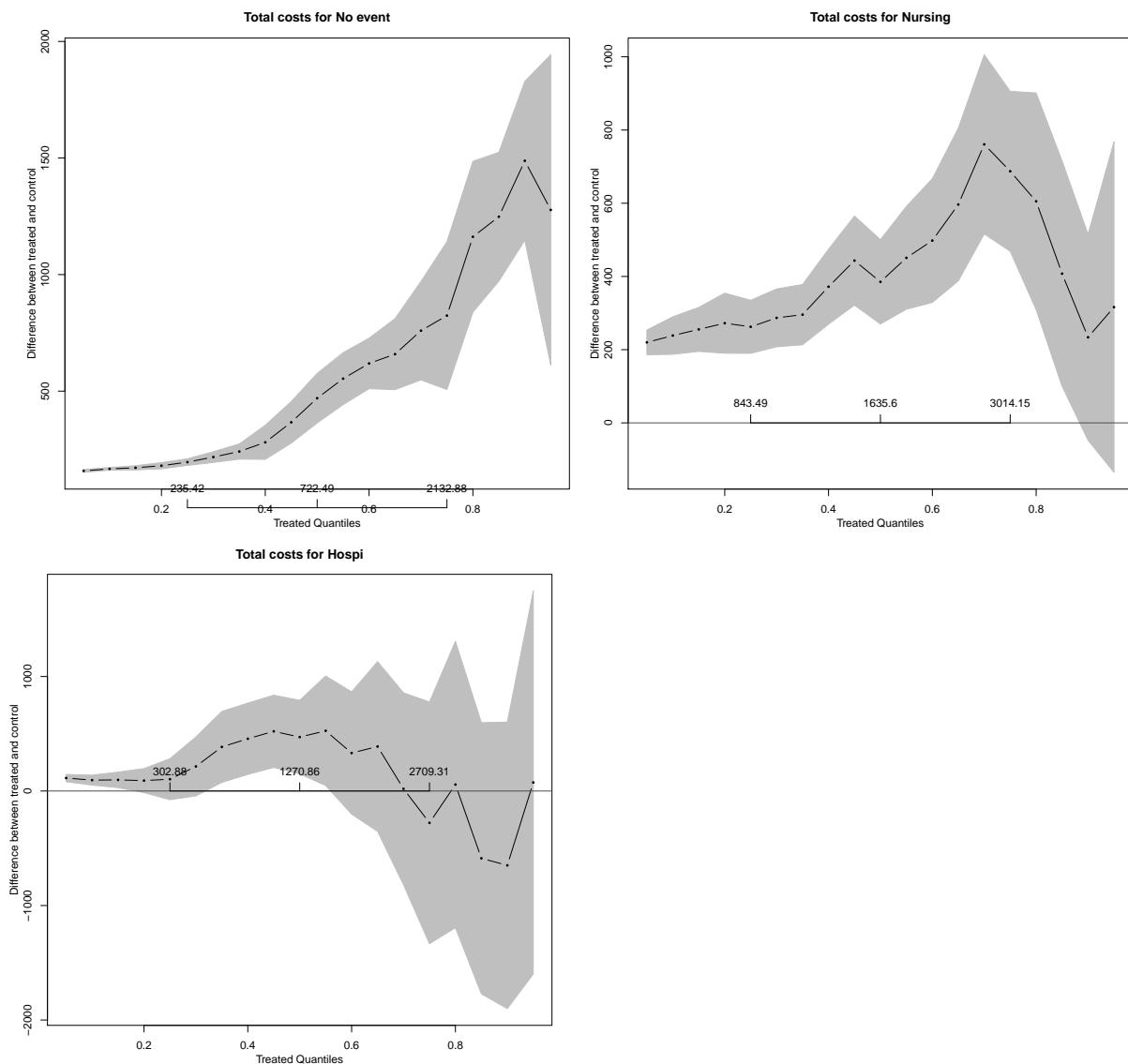


Figure 4.27: Graphs of the differences of the total cost for all stakeholders between treated and control, for twelve months and adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

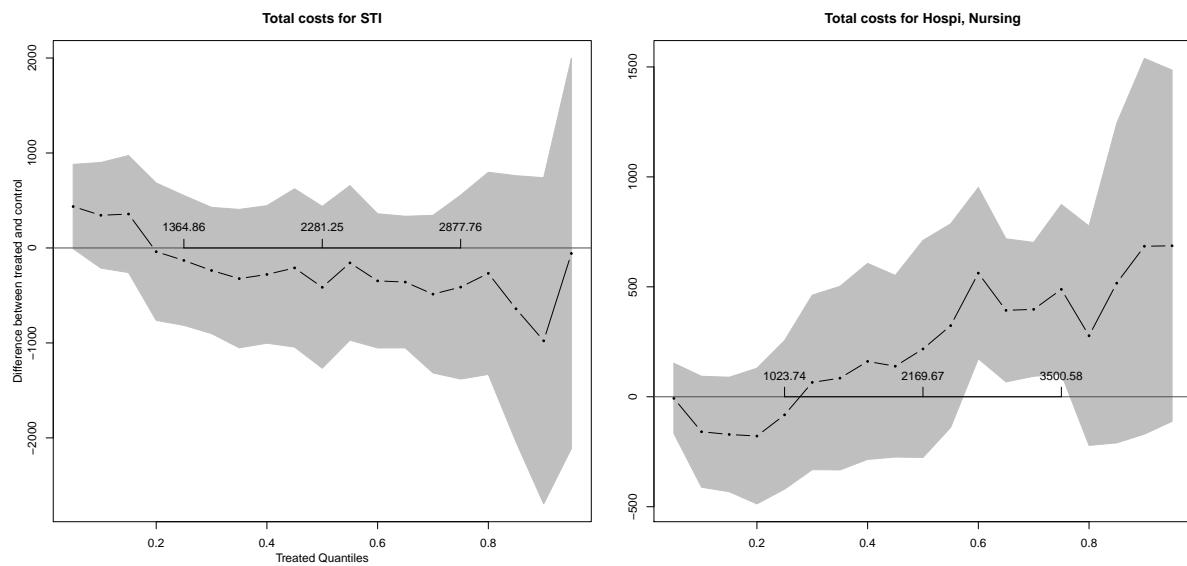


Figure 4.28: Graphs of the differences of the total cost for all stakeholders between treated and control, for twelve months and adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

#### 4.1.7 Number of days at home and in residential care facilities for six months

Table 4.26: Average number of days for 6 months (per patient)

	Temp. NH		Hosp.		Def. NH		Days home		Days alive
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Aft	Aft
<b>No Event</b>									
Mean T	1.2	3.2	9.4	7.9	6.5	162.1	151.8	176.9	
Mean C	0	0.3	7.8	4.9	3.6	172.5	174.4	181.9	
Diff. TC. IC95	0.7/2	2/4.1	-1.2/4.2	1/4.9	0/5.8	-15.1/-5.7	-27.6/-17.4	-6.8/-3.3	
<b>Nursing</b>									
Mean T	1.7	3.9	10.5	7.6	6.9	164.3	151.3	173.8	
Mean C	0	2.1	12.2	9.2	4.7	168.7	165.2	180.7	
Diff. TC. IC95	1/2.4	0.6/3.1	-3.7/0.1	-3.6/0.1	0.3/4.4	-7.4/-1.5	-18/-9.5	-9/-4.9	
<b>Hospi</b>									
Mean T	0.7	5.4	15.5	12.7	7.7	164.7	150.9	176.8	
Mean C	0.8	4	17.4	15.5	26.9	150.1	136.6	181.5	
Diff. TC. IC95	-1.3/1	-2.6/5.4	-6.8/2.3	-10.9/4.5	-31.6/-7.4	5.6/24.3	-1.6/30.3	-9.7/-0.5	
<b>STI</b>									
Mean T	26.8	8.2	8.2	3.5	10.5	145.9	158.4	180.6	
Mean C	35.6	25.2	2.2	5.1	69.8	97.5	108.1	181.8	
Diff. TC. IC95	-26.5/9.3	-28.7/-6.7	0.7/12	-5.9/1.9	-83/-35.6	24.6/72	27.5/74.2	-1.6/-0.9	
<b>Nursing, Hospi</b>									
Mean T	0.9	4.3	19.5	10.9	13.6	161.1	143.4	171.7	
Mean C	0	4.4	24.2	21.2	5.3	157.5	150	180.3	
Diff. TC. IC95	-26.9/9.1	-27.9/-6.9	0.8/11.8	-5.5/2.1	-83.9/-33.4	23.3/71.2	25.4/75.8	-1.6/-1	

Table 4.27: Average number of days for 12 months

	Temp. NH		Hosp.		Def. NH		Days home		Days alive
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Aft	Aft
<b>No Event</b>									
Mean T	1.8	6.1	15.9	12.7	22	328.1	288.1	343.6	
Mean C	0	0.6	14.8	9.6	9.8	346	340.9	360.2	
Diff. TC. IC95	1/2.5	4.1/7.2	-3/5.2	0.1/6	5.5/19.5	-26.2/-10.1	-63.9/-42.1	-22.6/-11	
<b>Nursing</b>									
Mean T	2.1	6.4	18.5	13.8	25.9	332.7	281.5	335.4	
Mean C	0	5.5	25.6	18.9	17.2	337.7	310.8	351.9	
Diff. TC. IC95	1.4/2.9	-1.1/2.9	-10/-4.1	-7.9/-2.5	2.5/14.6	-10/0	-38.9/-18.8	-22.9/-10.4	
<b>Hospi</b>									
Mean T	0.7	10.5	16.3	18.3	25.3	345.3	287.1	340.9	
Mean C	0.8	6.1	21	22.9	55.4	310.9	276.7	361.6	
Diff. TC. IC95	-1.3/0.9	-1.6/12.9	-13.5/1.8	-15.3/6	-54/-4.9	15.4/55.9	-23.7/45.3	-35.3/-7.2	
<b>STI</b>									
Mean T	34.4	14.9	21.5	7.2	44.1	305.6	289.8	356	
Mean C	61.1	40.7	14.2	6.7	144.1	179.5	179.2	355.3	
Diff. TC. IC95	-55.9/-2.3	-45.7/-8.4	-9.6/21.3	-5/7	-156.6/-45	69.6/178.1	55.4/168.7	-14.5/15.1	
<b>Nursing, Hospi</b>									
Mean T	0.9	5.9	20.3	17.7	33.2	342.1	266.5	322.5	
Mean C	0	11.2	31.2	32.8	19.1	332.8	280.9	343.7	
Diff. TC. IC95	-55.2/-0.6	-45.6/-9.3	-9.3/21.7	-5.1/6.5	-156.3/-44	75.5/180.9	51.7/172.2	-15.3/15.1	

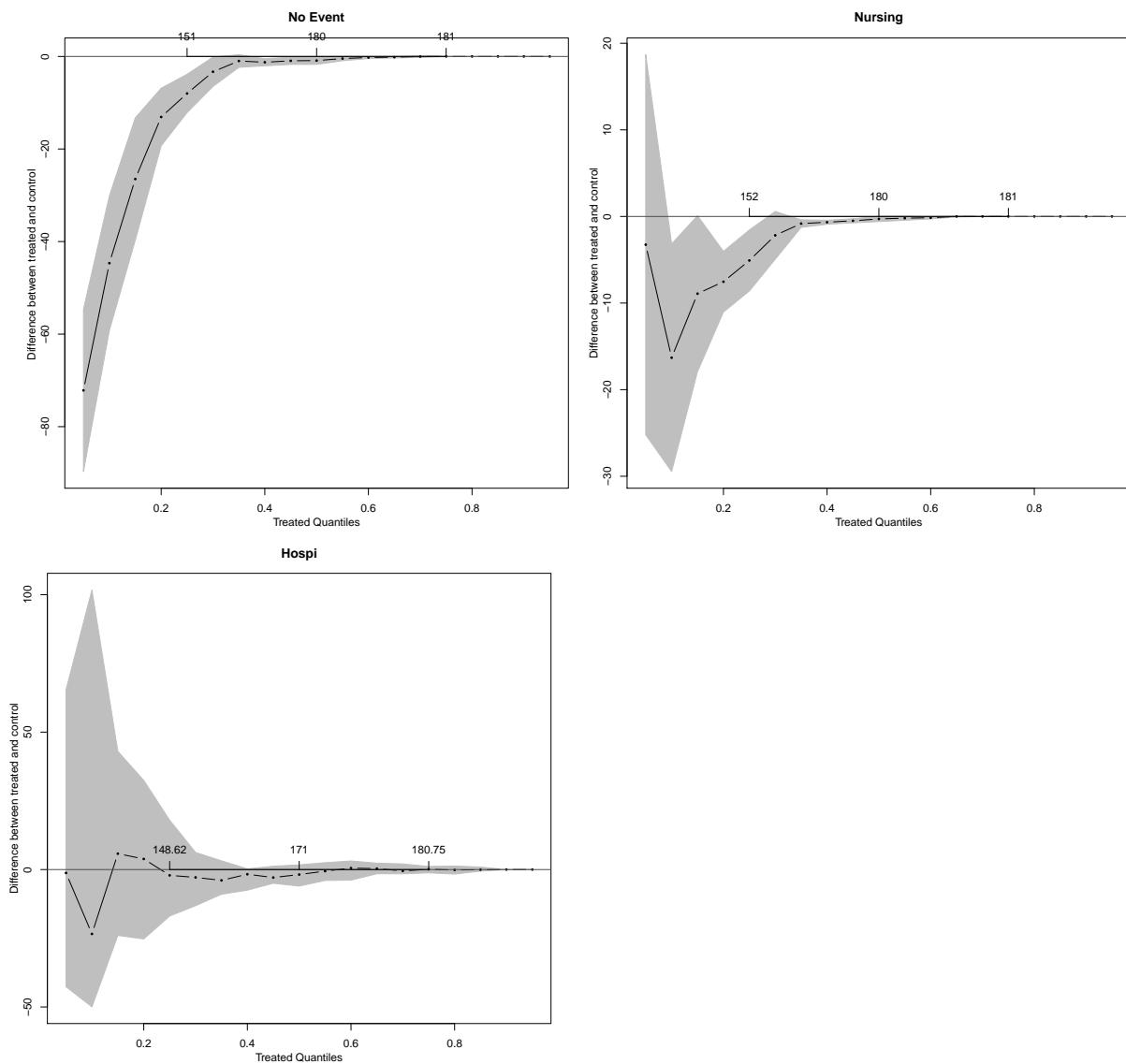


Figure 4.29: Graphs of the differences of days spent at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the number of days at home before intervention

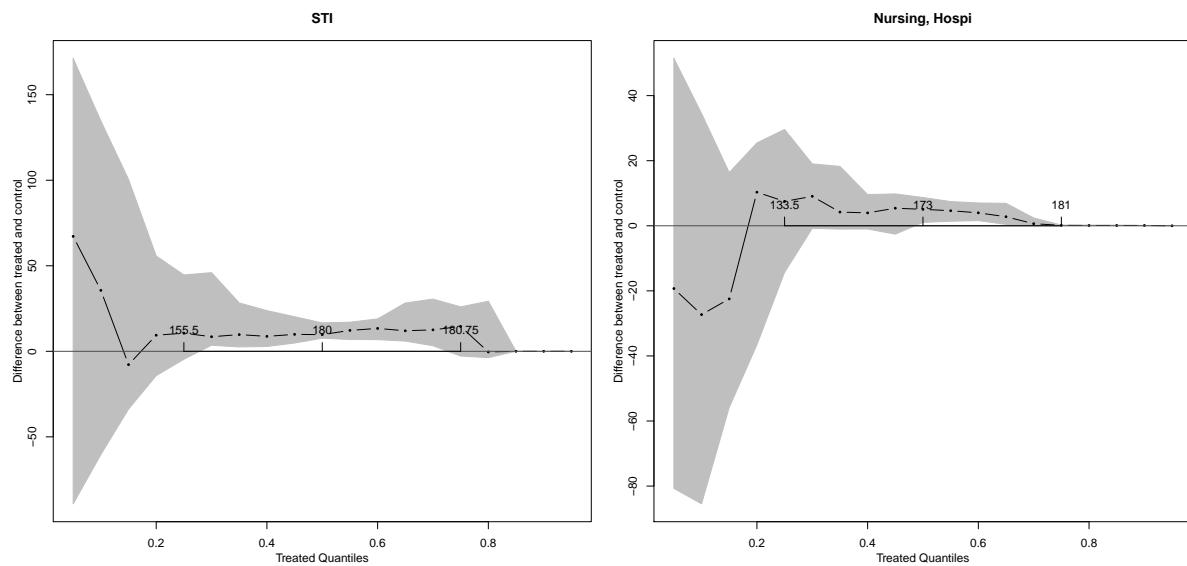


Figure 4.30: Graphs of the differences of days spent at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the number of days at home before intervention

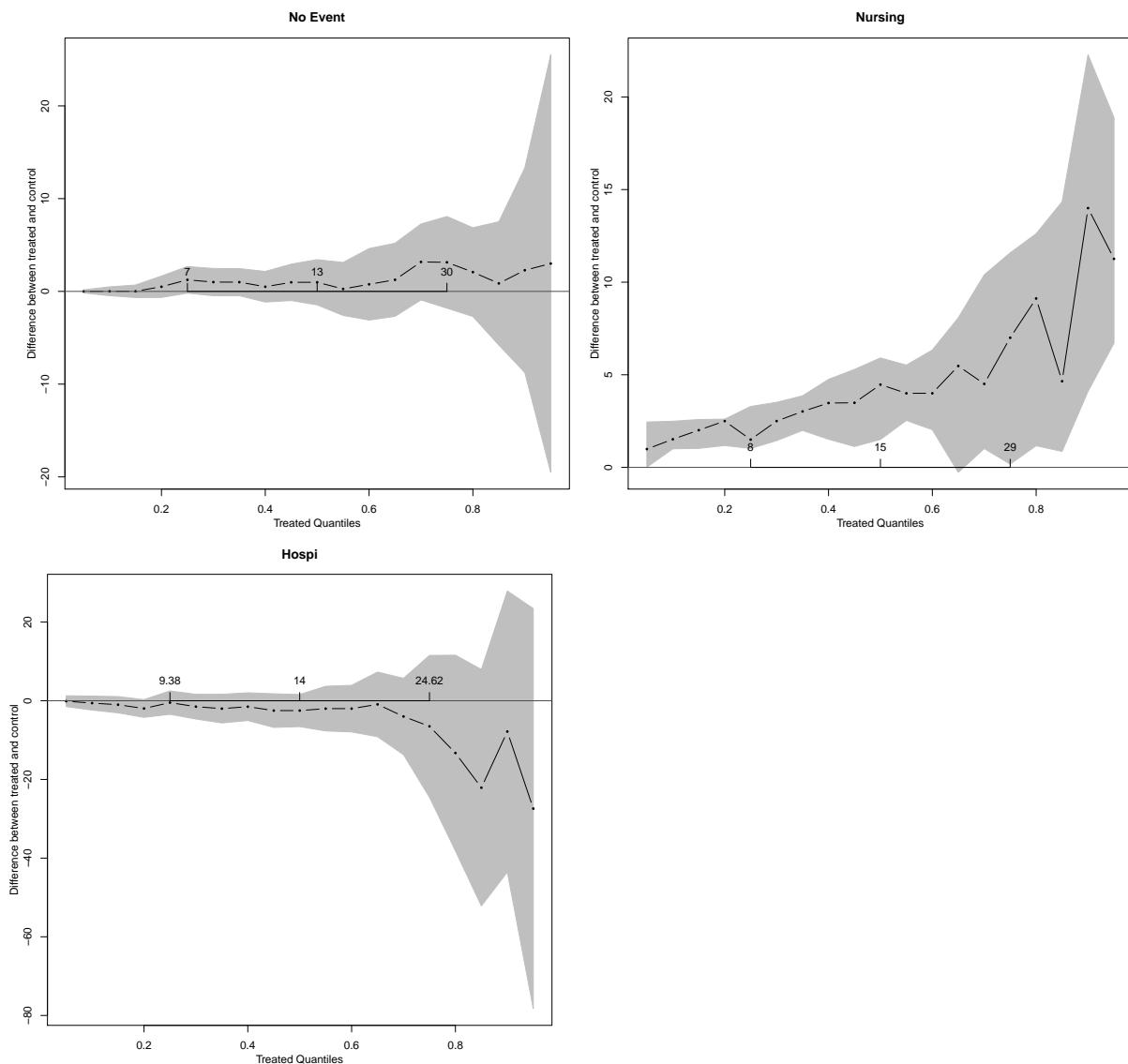


Figure 4.31: Graphs of the differences of days spent in hospital between treated and control, for six months, only for people with at least one hospitalisation, adjusted according to the proxy of the socio economic status and the number of days alive for six months

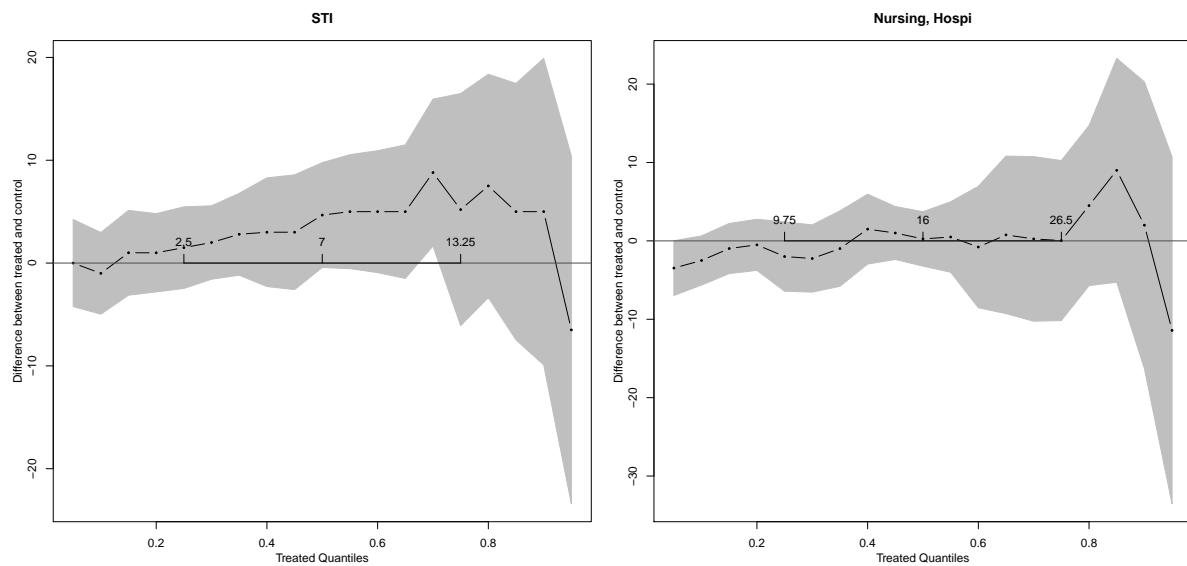


Figure 4.32: Graphs of the differences of days spent in hospital between treated and control, for six months, only for people with at least one hospitalisation, adjusted according to the proxy of the socio economic status and the number of days alive for six months

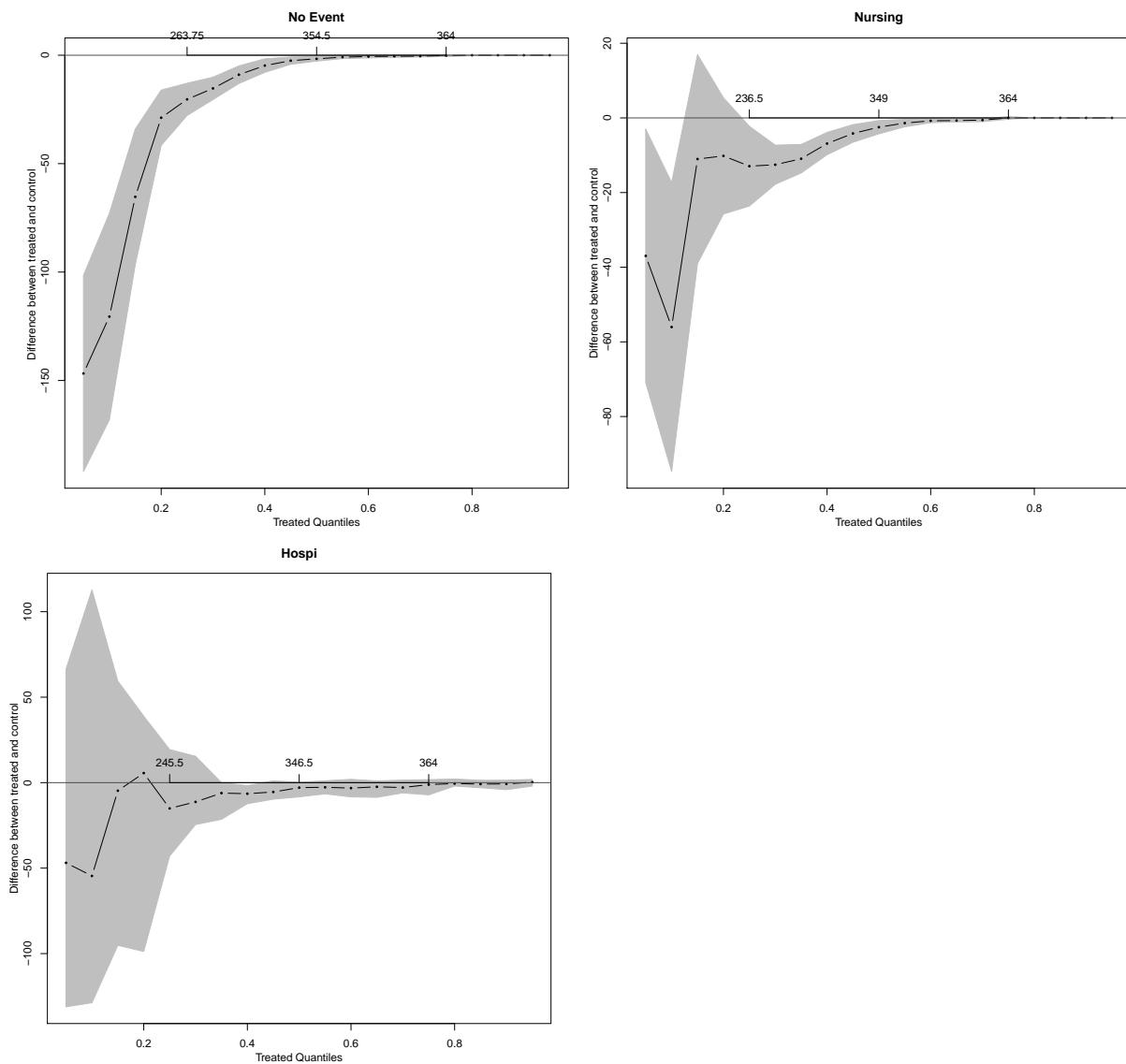


Figure 4.33: Graphs of the differences of days spent at home between treated and control, for twelve months, adjusted according to the proxy of the socio economic status, the number of days alive for twelve months and the number of days at home before intervention

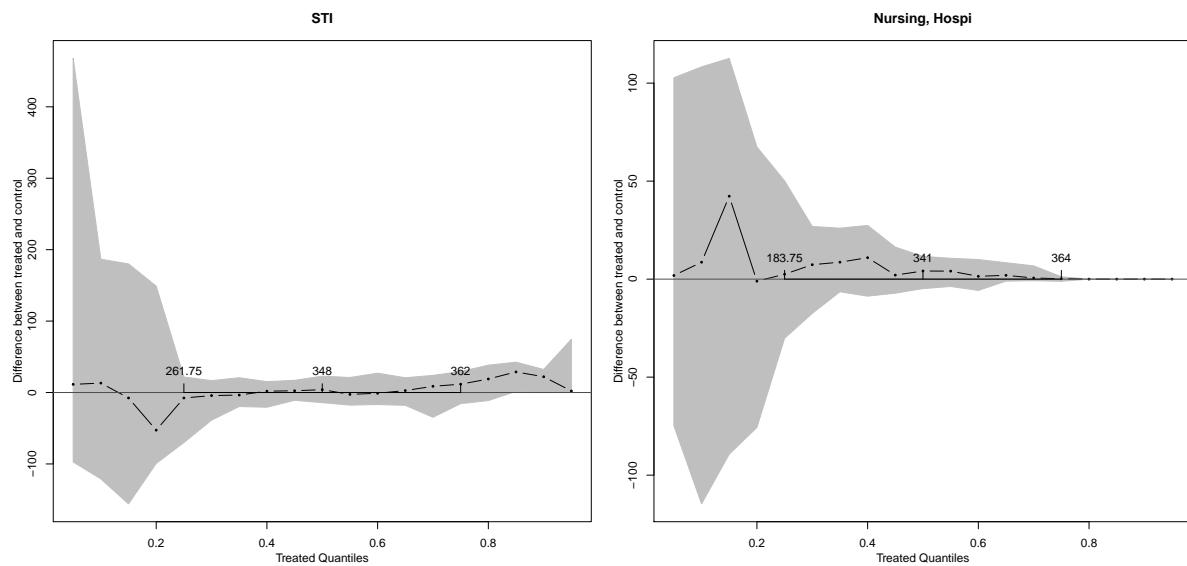


Figure 4.34: Graphs of the differences of days spent at home between treated and control, for twelve months, adjusted according to the proxy of the socio economic status, the number of days alive for twelve months and the number of days at home before intervention

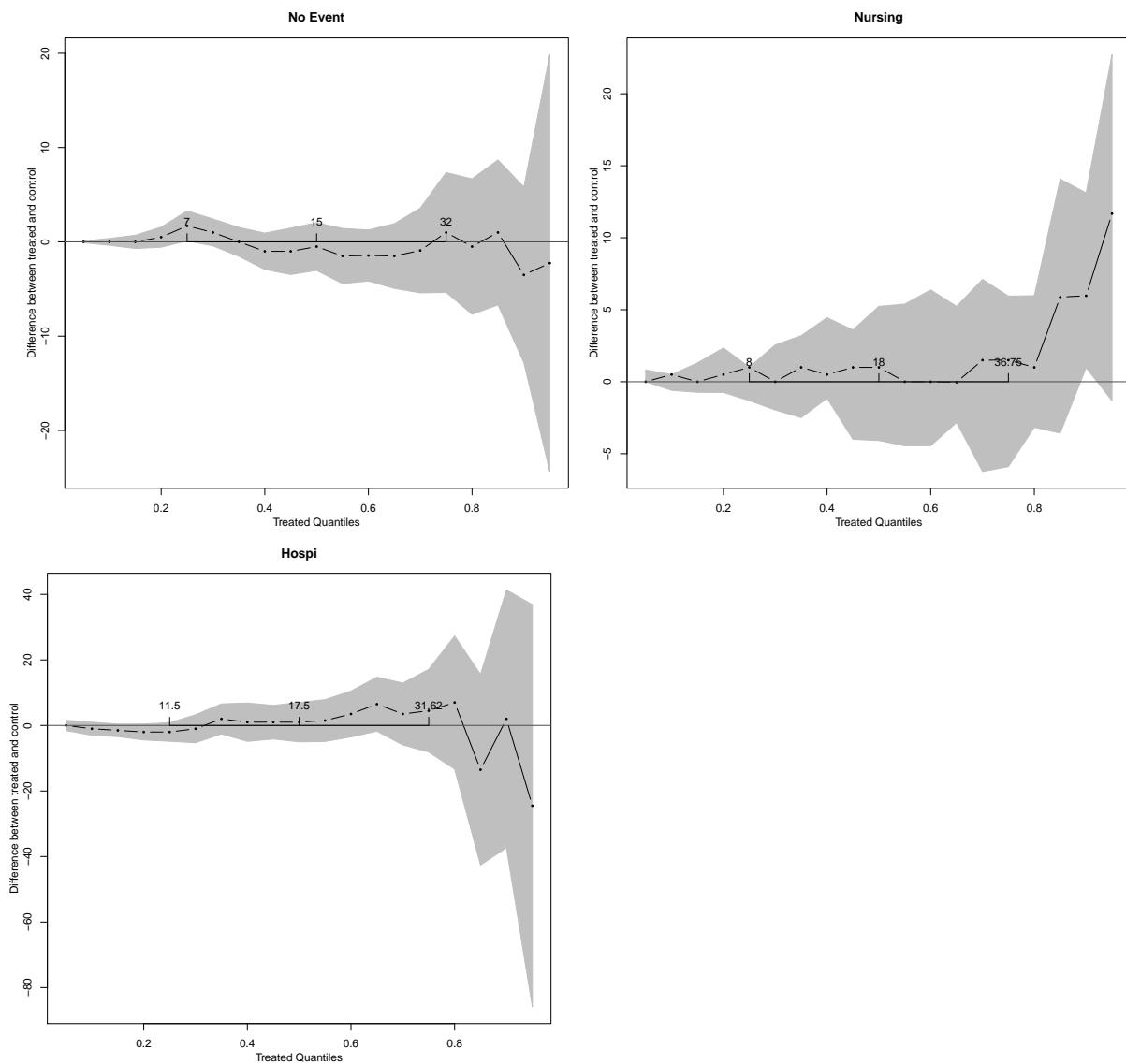


Figure 4.35: Graphs of the differences of days spent in hospital between treated and control for twelve months, only for people with at least one hospitalisation and adjusted according to the proxy of the socio economic status and the number of days alive for twelve months

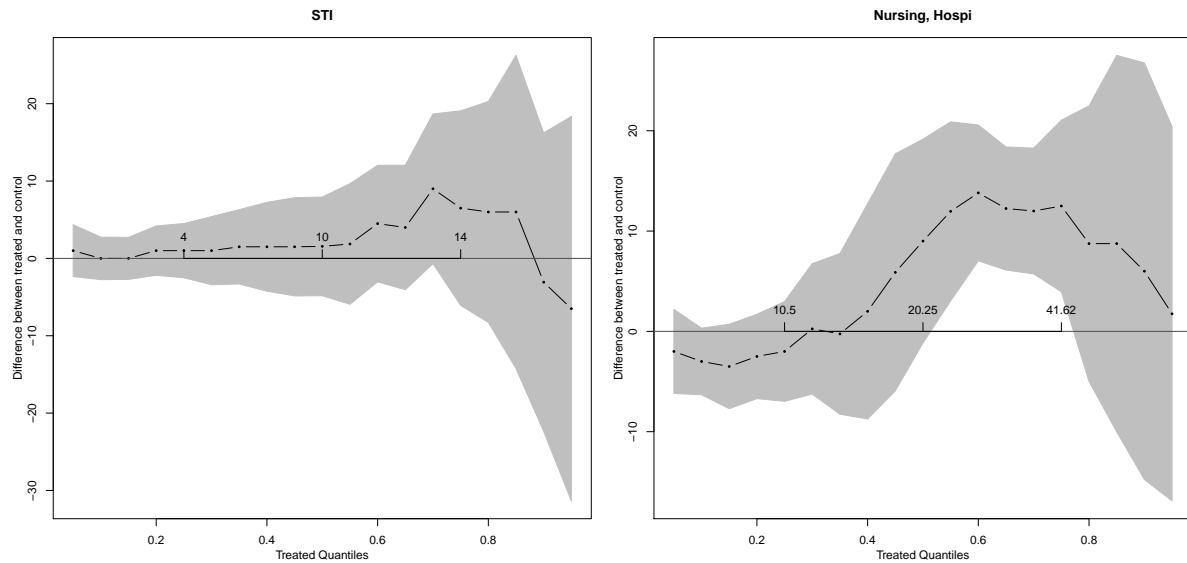


Figure 4.36: Graphs of the differences of days spent in hospital between treated and control for twelve months, only for people with at least one hospitalisation and adjusted according to the proxy of the socio economic status and the number of days alive for twelve months

# Chapter 5

## F1P0I1

### 5.1 Comparison with the BelRAI control group

#### 5.1.1 Description of disability groups

Table 5.1: Proportion above the cut off of BelRAI scales depend on the subgroups of disability for the project F1P0I1

	low limit.	IADL, (cogn.)	func.	func., cogn.	func., cogn., behav.
IADL	4.36	95.43	94.43	100.00	98.08
ADL	5.45	0.40	98.00	78.37	75.00
CPS	10.55	6.36	0.29	97.96	94.23
Behav.	5.09	3.08	2.71	20.00	100.00
DRS	19.64	8.75	16.43	35.51	50.00
N	275.00	1006.00	700.00	245.00	52.00

### 5.1.2 Description of socio-demographic variables

Table 5.2: Sociodemographic characteristics for the treated and the control group depend on the health profiles

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	T	C	T	C	T	C	T	C	T	C
<b>Age</b>										
Median[IQR]	82[76-86]	81[77-87]	81[76-85]	81[75-87]	81[76-85]	84[79-88]	82[76-86]	82[78-88]	80[70-84]	81[72-88]
<b>Gender</b>										
% Men	33.09	23.64	21.57	25.65	23.29	24.43	36.33	29.39	32.69	32.69
% Women	66.91	76.36	78.43	74.35	76.71	75.57	63.67	70.61	67.31	67.31
<b>ICG</b>										
% No ICG	18.18	18.18	5.57	5.57	8	8	0.41	0	0	0
% No cohabitant	69.45	69.45	79.03	79.13	64.57	64.57	44.49	44.9	34.62	34.62
% Cohabitant	12.36	12.36	15.41	15.31	27.43	27.43	55.1	55.1	65.38	65.38
<b>Region</b>										
Bruxelles	0.36	0	0.1	0	0	0	0	0	0	0
Flandre	69.82	54.55	89.86	55.77	84.14	86.14	73.88	77.96	76.92	46.15
Wallonie	29.82	45.45	10.04	44.23	15.86	13.86	26.12	22.04	23.08	53.85
<b>Median income</b>										
Low	17.82	25.82	6.66	34.99	9.43	10.43	14.69	6.94	11.54	44.23
Medium	62.55	47.64	79.32	41.75	68.71	54	55.92	49.8	51.92	46.15
High	19.64	26.55	14.02	23.26	21.86	35.57	29.39	43.27	36.54	9.62
<b>N</b>										
Unique value	275	59	1006	114	700	205	245	84	52	18



### 5.1.3 Clinical outcome

Table 5.3: BelRai outcomes

	ADL		IADL		Falls	
	Bef	Aft	Bef	Aft	Bef	Aft
<b>low limit.</b>						
% cut off C	10.26	13.97	5.13	23.53	16.67	10.74
% cut off T	5.49	7.72	4.76	17.28	25.93	19.63
IC95	0.51[0.24/0.93]	0.63[0.25/1.18]	0.93[0.38/2.28]	0.41[0.25/0.68]	1.75[1.12/2.7]	1.59[0.92/2.87]
% NA	0	0.37	0	0.37	1.1	1.1
<b>IADL,</b> <b>(cogn.)</b>						
% cut off C	2.29	14.18	77.63	72.74	20.62	17.42
% cut off T	0.4	4.42	95.43	70.22	42.76	37.04
IC95	0.17[0.04/0.42]	0.26[0.18/0.37]	6.01[4.42/8.51]	0.39[0.3/0.48]	2.87[2.37/3.54]	1.16[0.87/1.54]
% NA	0	3.28	0	1.19	1.19	0.7
<b>func.</b>						
% cut off C	93.25	91.65	88.36	90.59	29.75	29.55
% cut off T	97.99	59.02	94.4	82.92	46.15	38.86
IC95	3.53[2.06/7.24]	0.14[0.1/0.19]	2.22[1.52/3.47]	0.22[0.14/0.32]	2.02[1.62/2.54]	0.75[0.56/1]
% NA	0	3.59	0	0.72	1.01	1.29
<b>func.,</b> <b>cogn.</b>						
% cut off C	92.08	95.13	98.75	100	33.19	33.19
% cut off T	78.33	75.66	100	98.7	37.5	29.2
IC95	0.31[0.16/0.53]	0.08[0.02/0.18]	-[-/-]	-[-/-]	1.21[0.82/1.75]	0.75[0.47/1.15]
% NA	0	5.83	0	4.17	3.33	5.83
<b>func.,</b> <b>cogn.,</b> <b>behav.</b>						
% cut off C	75	74.51	100	100	30.77	13.73
% cut off T	75	80.39	98.08	100	36.54	25.49
IC95	1[0.38/2.54]	5.16[0.64/6.40981522828636e+60]	-[-/-]	-[-/-]	1.3[0.54/2.92]	2.38[0.66/14.26]
% NA	0	1.92	0	3.85	0	1.92

Table 5.4: Zarit outcome

		Non Cohab		Cohab	
		Bef	Aft	Bef	Aft
<b>low limit.</b>					
% cut off C	10.29	4.1	15.38	14.29	
% cut off T	24.26	21.31	26.92	32.14	
IC95	2.79[1.39/6.24]	1.82[0.52/8.57]	2.03[0.45/12.21]	380.28[9.86/1.10492969393004e+51]	
% NA	28.42	35.79	23.53	17.65	
<b>IADL, (cogn.)</b>					
% cut off C	19.3	38.25	35.65	27.93	
% cut off T	36.03	31.32	53.45	50	
IC95	2.36[1.82/3.11]	0.26[0.13/0.43]	2.07[1.25/3.6]	10.6[2.75/49.46]	
% NA	28.41	35.32	25.24	27.83	
<b>func.</b>					
% cut off C	28.06	28.76	43.51	24.49	
% cut off T	36.72	35.45	40.91	41.5	
IC95	1.49[1.09/2.12]	0.95[0.55/1.62]	0.9[0.55/1.46]	2.75[1.26/8.34]	
% NA	25.39	33.41	19.37	23.04	
<b>func., cogn.</b>					
% cut off C	50	43.59	45.05	56.25	
% cut off T	41.11	53.85	52.25	50	
IC95	0.7[0.39/1.24]	5.77[2.31/22.47]	1.34[0.77/2.36]	0.53[0.19/1.24]	
% NA	16.67	27.78	15.91	27.27	
<b>func., cogn., behav.</b>					
% cut off C	58.33	37.5	45.16	48.15	
% cut off T	58.33	37.5	67.74	62.96	
IC95	-[-/-]	-[-/-]	2.55[0.92/8.4]	2.49[0.26/Inf]	
% NA	33.33	55.56	8.82	20.59	

Table 5.5: DRS outcomes

	Bef	Aft
<b>low limit.</b>		
% cut off C	18.32	18.52
% cut off T	19.41	16.3
IC95	1.07[0.7/1.67]	0.89[0.41/1.72]
% NA	0	1.1
<b>IADL, (cogn.)</b>		
% cut off C	29.52	19.94
% cut off T	8.75	8.97
IC95	0.23[0.17/0.29]	1.45[0.97/2.14]
% NA	0	0.3
<b>func.</b>		
% cut off C	17.82	22.19
% cut off T	16.52	16.86
IC95	0.91[0.71/1.21]	0.7[0.52/0.96]
% NA	0	0.29
<b>func., cogn.</b>		
% cut off C	43.33	44.78
% cut off T	35	33.04
IC95	0.7[0.47/1.01]	0.49[0.25/0.87]
% NA	0	4.17
<b>func., cogn., behav.</b>		
% cut off C	63.46	60
% cut off T	50	50
IC95	0.58[0.26/1.22]	2.91[0.86/39.86]
% NA	0	3.85

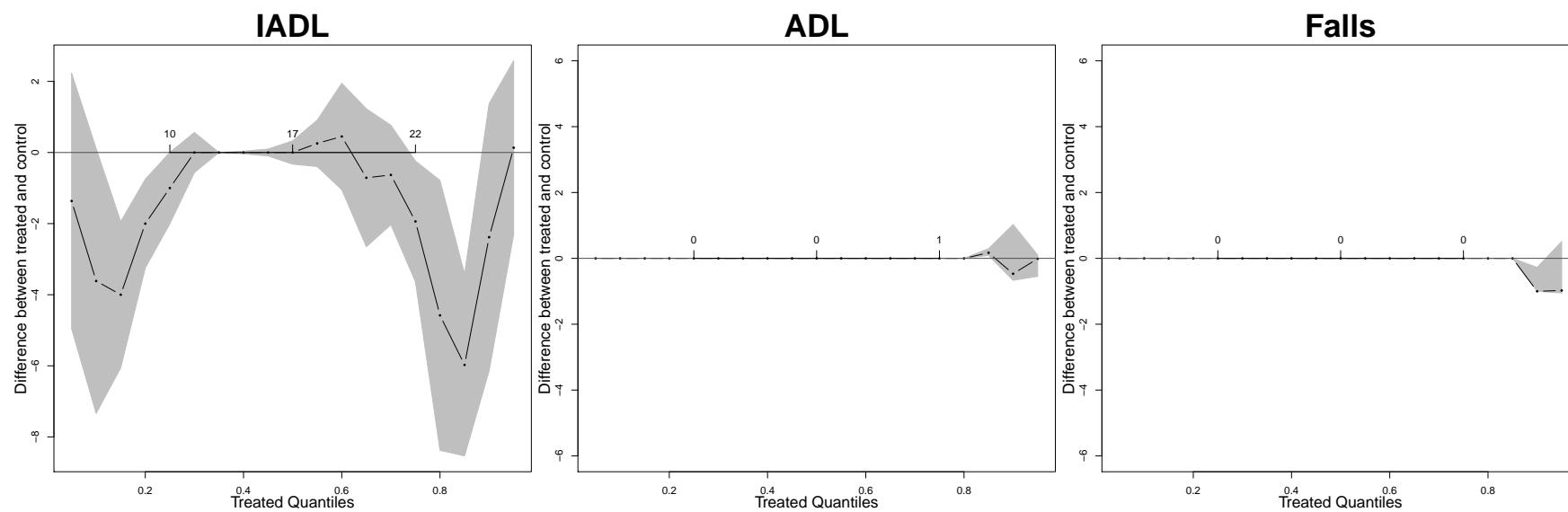


Figure 5.1: Regression quantile of functional clinical outcome (Low limitation)

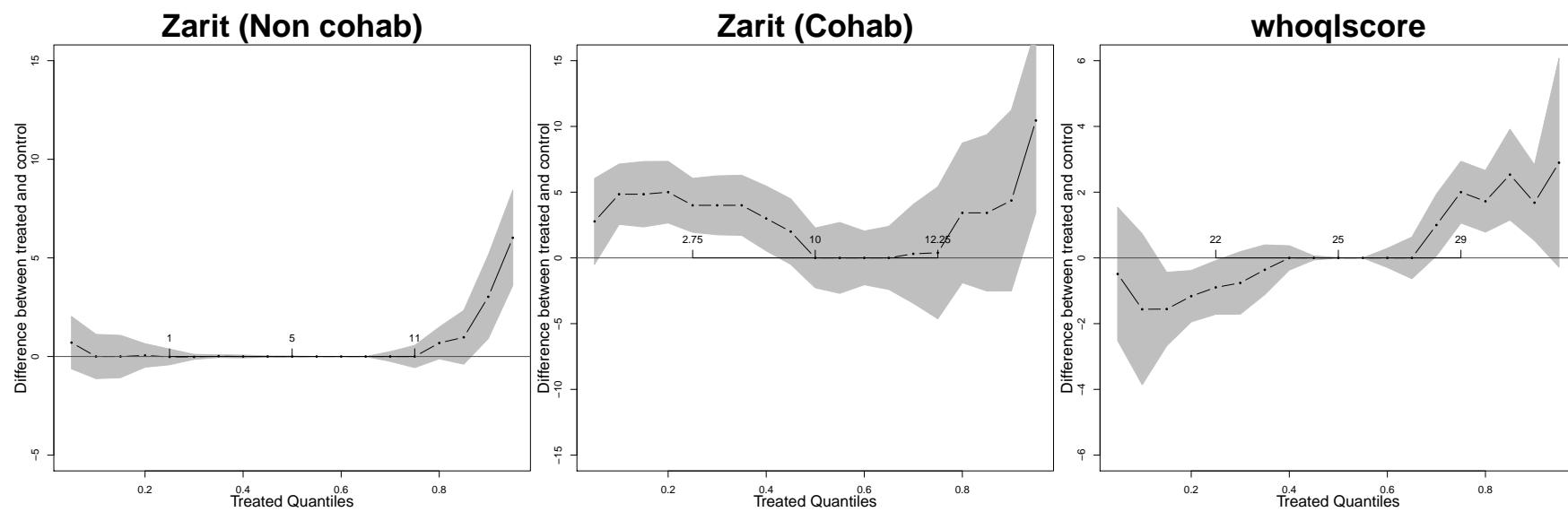


Figure 5.2: Regression quantile of burden and quality of life clinical outcome (Low limitation)

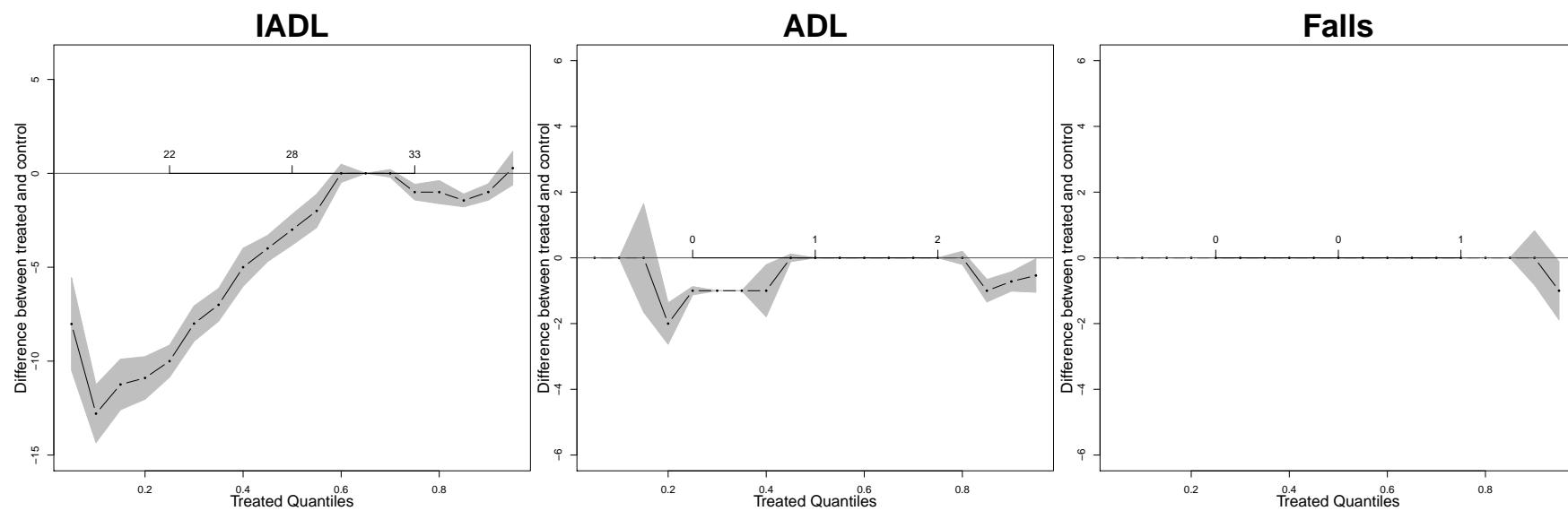


Figure 5.3: Regression quantile of functional clinical outcome (IADL (cogn.)

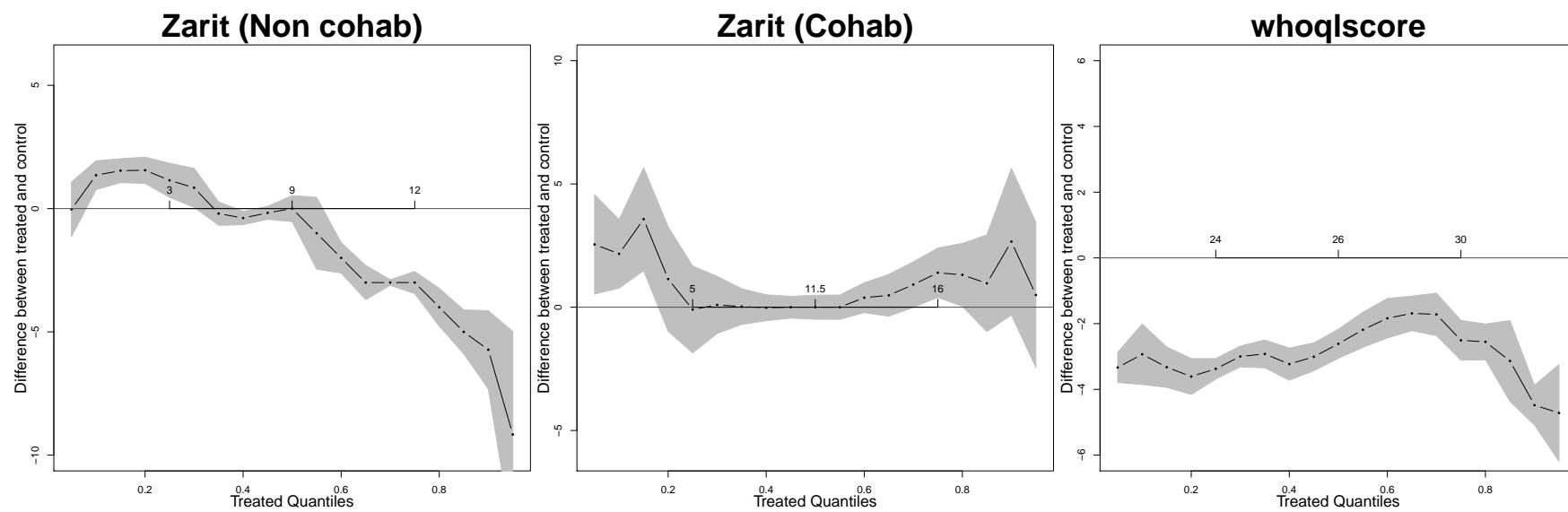


Figure 5.4: Regression quantile of burden and quality of life clinical outcome (IADL (cogn.)

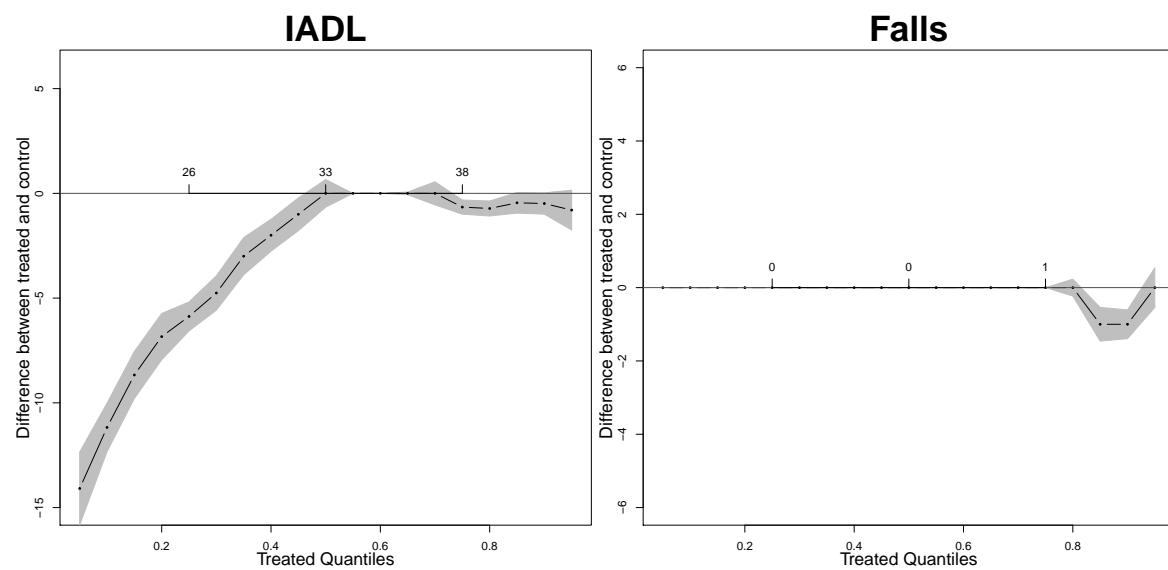


Figure 5.5: Regression quantile of functional clinical outcome (Func.)

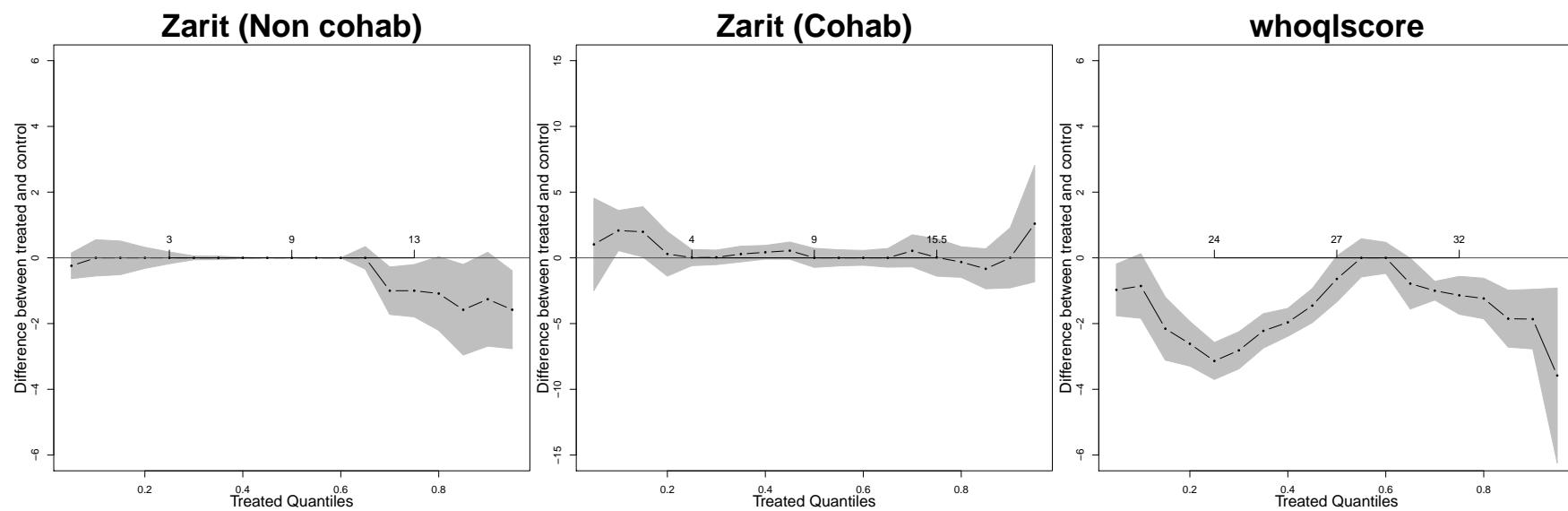


Figure 5.6: Regression quantile of burden and quality of life clinical outcome (Func.)

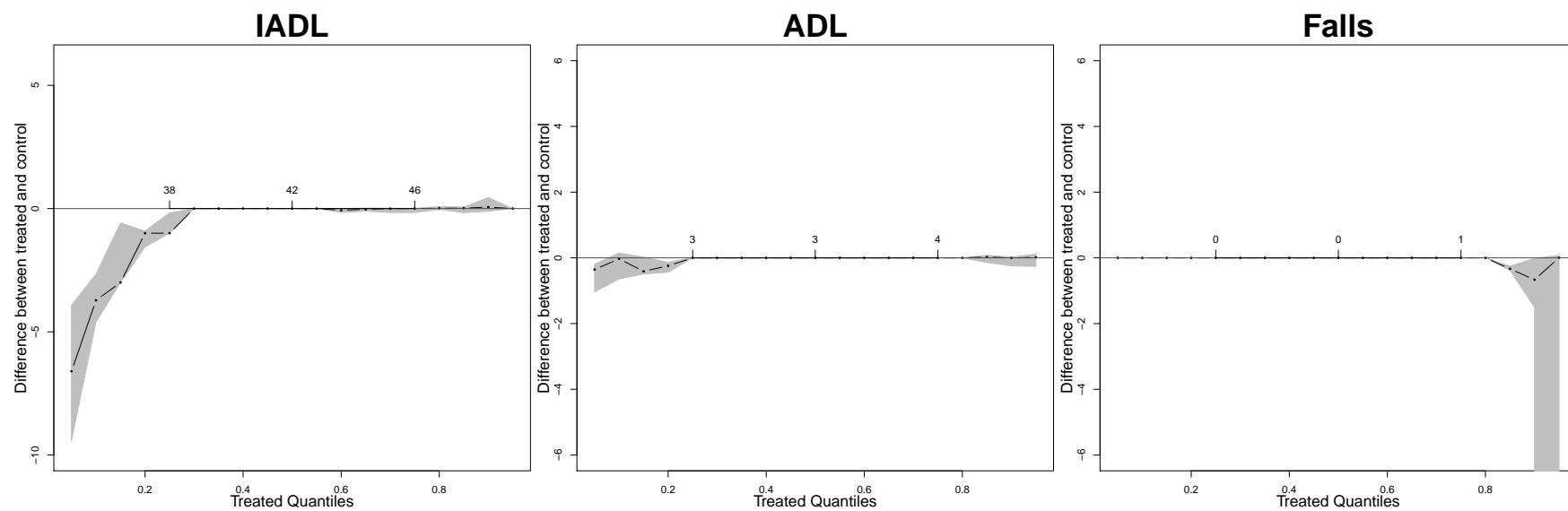


Figure 5.7: Regression quantile of functional clinical outcome (Func., cogn.)

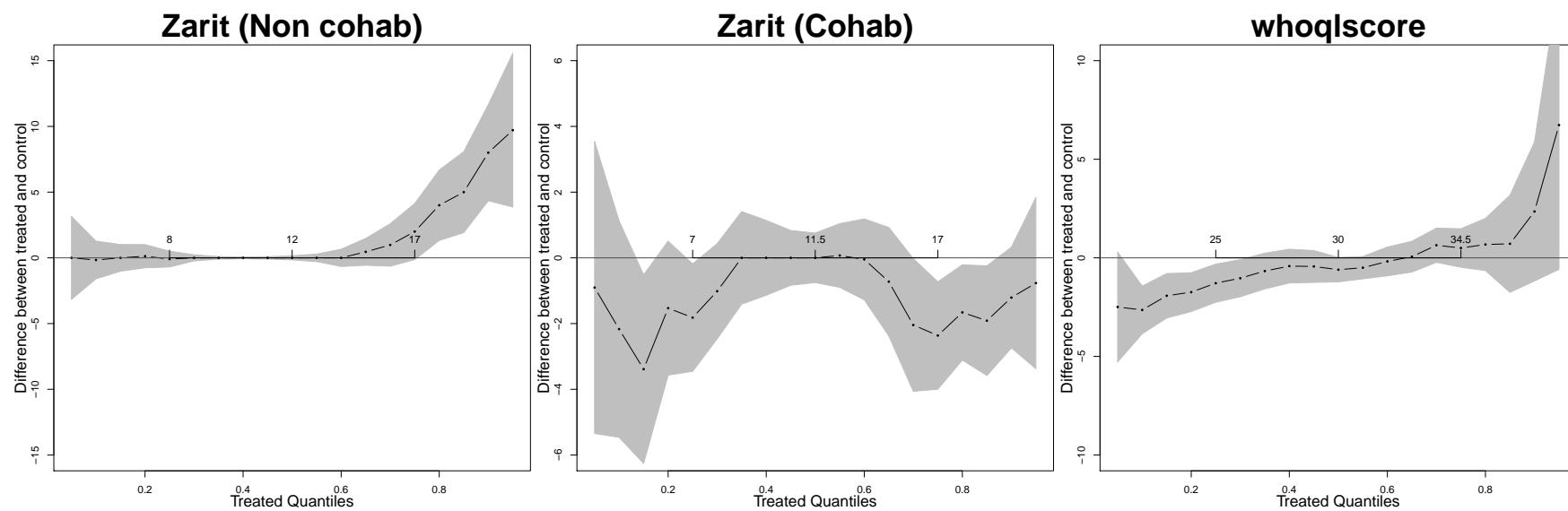


Figure 5.8: Regression quantile of burden and quality of life clinical outcome (Func., cogn.)

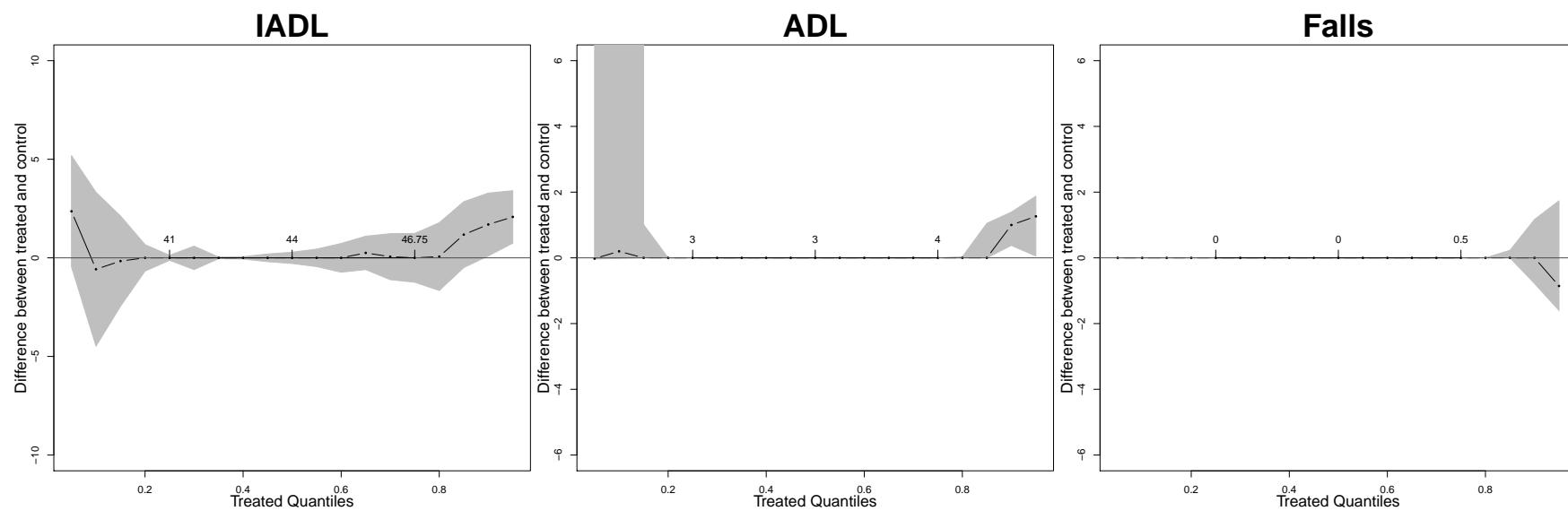


Figure 5.9: Regression quantile of functional clinical outcome (Func., cogn., behav.)

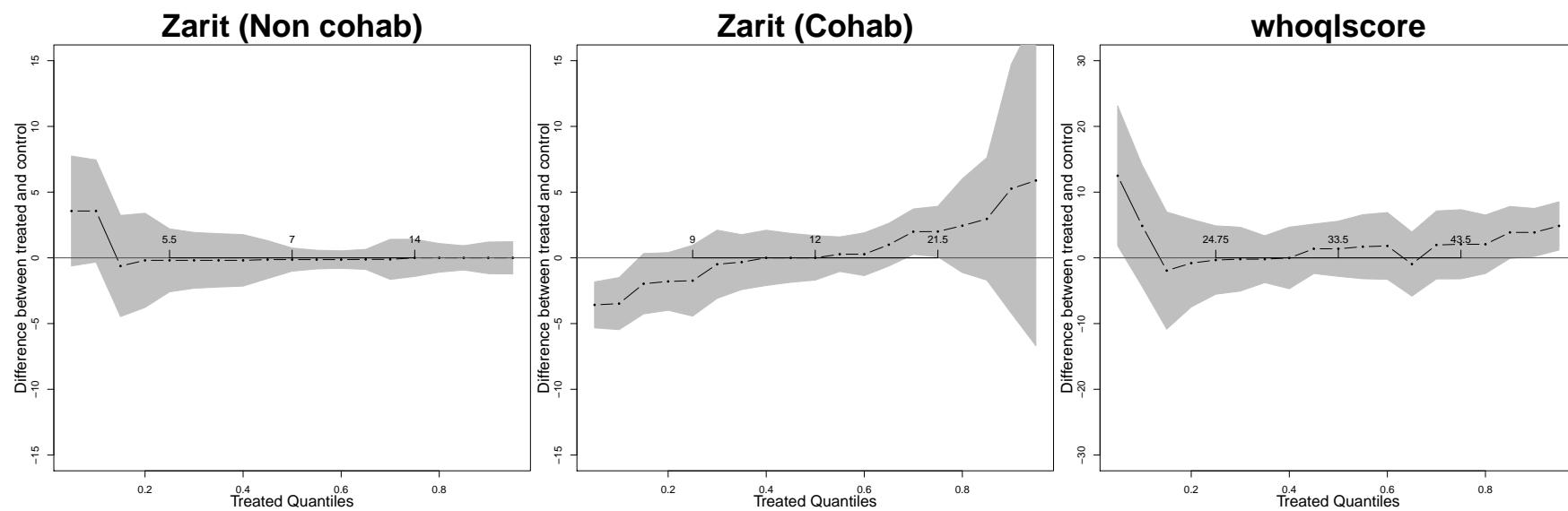


Figure 5.10: Regression quantile of burden and quality of life clinical outcome (Func., cogn., behav.)



## 5.1.4 Utilisation of services

### Appropriate use of services

Table 5.6: IC differnce of mean between treated and control for the dependency IMA outcomes

	Nursing Care N months		Short term institu. N stays		Day care center N days	
	Use	Users	Use	Users	Use	Users
<b>low limit.</b>						
<b>IADL, (cogn.)</b>						
% / Med[IQR] C	80.53	6[6-6]	0	-	0.48	85[85-85]
% / Med[IQR] T	64.9	4[2-6]	1.44	1[1-2]	0.72	25[18-25]
OR [IC95]	0.76[0.52/1.1]		-[-/-]		-[-/-]	
<b>func.</b>						
% / Med[IQR] C	90.85	6[5-6]	0	-	1.89	85[32-85]
% / Med[IQR] T	71.92	5[3-6]	1.26	2[1-3]	2.21	45[27-50]
OR [IC95]	0.32[0.17/0.52]		-[-/-]		0.49[0/2.28]	
<b>func., cogn.</b>						
% / Med[IQR] C	97.74	6[6-6]	0	-	1.31	38[14-97]
% / Med[IQR] T	82.98	5[2-6]	3.87	1[1-2]	2.48	15[3-44]
OR [IC95]	0.24[0.16/0.35]		4.35[0/12.41]		2.18[1.17/4.92]	
<b>func., cogn., behav.</b>						
% / Med[IQR] C	95.35	6[5-6]	0	-	1.16	178[178-178]
% / Med[IQR] T	86.05	5[3-6]	8.14	2[1-3]	17.44	37[19-66]
OR [IC95]	0.36[0.05/1.33]		-[-/-]		8.31[1.48/175423895.79]	

Table 5.7: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated at inclusion)

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or	15.4(5.1)	84.6(28.3)	28.3(1.3)	71.7(3.3)	33.3(0.1)	66.7(0.3)	0(0)	100(2.1)	0(0)	100(11.8)
Incont										
Low lim,										
ADL &	25(0.4)	75(1.1)	20(0.2)	80(0.8)	100(0.1)	0(0)	0(0)	100(0.4)	- (0)	- (0)
Incont										
ADL lim	37.5(7.7)	62.5(12.9)	29.9(4.9)	70.1(11.6)	50(9)	50(9)	46.8(12)	53.2(13.7)	71.4(19.6)	28.6(7.8)
Incont	31.2(1.8)	68.8(4)	28.6(0.4)	71.4(1)	0(0)	100(0.1)	25(0.4)	75(1.2)	- (0)	- (0)
ADL &										
Incont	41.9(4.8)	58.1(6.6)	46.9(5.3)	53.1(6)	68.8(18.7)	31.2(8.5)	62.2(34.9)	37.8(21.2)	59.3(31.4)	40.7(21.6)
lim										
ADL ?										
No Incont	24.3(6.6)	75.7(20.6)	31.8(20.7)	68.2(44.4)	51.8(28)	48.2(26.1)	52.9(7.5)	47.1(6.6)	75(5.9)	25(2)
tot	26.5(26.5)	73.5(73.5)	32.9(32.9)	67.1(67.1)	56(56)	44(44)	54.8(54.8)	45.2(45.2)	56.9(56.9)	43.1(43.1)

Table 5.8: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Control at inclusion)

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or	42.3(11)	57.7(15.1)	59.4(6.3)	40.6(4.3)	0(0)	100(0.1)	16.7(0.4)	83.3(2.1)	100(2)	0(0)
Incont										
Low lim,										
ADL &	100(1.1)	0(0)	11.1(0.9)	88.9(7.2)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
Incont										
ADL lim	50(21)	50(21)	64.7(20.6)	35.3(11.3)	84.6(21.6)	15.4(3.9)	94.4(7.1)	5.6(0.4)	60(23.5)	40(15.7)
Incont	27.3(1.1)	72.7(2.9)	52.9(0.9)	47.1(0.8)	0(0)	100(0.1)	100(1.2)	0(0)	-(0)	-(0)
ADL &										
Incont	100(21)	0(0)	71(19.7)	29(8)	94.2(49.4)	5.8(3.1)	85.2(66.8)	14.8(11.6)	43.3(25.5)	56.7(33.3)
lim										
ADL ?										
No Incont	37.5(2.2)	62.5(3.7)	96(19.1)	4(0.8)	84.6(18.4)	15.4(3.4)	88(9.1)	12(1.2)	-(0)	-(0)
tot	57.4(57.4)	42.6(42.6)	67.5(67.5)	32.5(32.5)	89.4(89.4)	10.6(10.6)	84.6(84.6)	15.4(15.4)	51(51)	49(49)

Table 5.9: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated second eval)

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or	44(14.7)	56(18.8)	58.7(2.7)	41.3(1.9)	66.7(0.3)	33.3(0.1)	60(1.2)	40(0.8)	16.7(2)	83.3(9.8)
Incont										
Low lim,										
ADL &	75(1.1)	25(0.4)	60(0.6)	40(0.4)	100(0.1)	0(0)	0(0)	100(0.4)	-(0)	-(0)
Incont										
ADL lim	64.3(13.2)	35.7(7.4)	46.3(7.6)	53.7(8.8)	71(12.8)	29(5.2)	67.7(17.4)	32.3(8.3)	78.6(21.6)	21.4(5.9)
Incont	43.8(2.6)	56.2(3.3)	42.9(0.6)	57.1(0.8)	0(0)	100(0.1)	50(0.8)	50(0.8)	-(0)	-(0)
ADL &										
Incont	83.9(9.6)	16.1(1.8)	78.8(8.9)	21.2(2.4)	89.8(24.3)	10.2(2.8)	86.7(48.5)	13.3(7.5)	85.2(45.1)	14.8(7.8)
lim										
ADL ?										
No Incont	77(21)	23(6.2)	76.9(50.1)	23.1(15.1)	87.6(47.4)	12.4(6.7)	76.5(10.8)	23.5(3.3)	75(5.9)	25(2)
tot	62.1(62.1)	37.9(37.9)	70.6(70.6)	29.4(29.4)	85(85)	15(15)	78.8(78.8)	21.2(21.2)	74.5(74.5)	25.5(25.5)

Table 5.10: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Control second eval)

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or	52.1(13.6)	47.9(12.5)	62.3(6.6)	37.7(4)	100(0.1)	0(0)	100(2.5)	0(0)	100(2)	0(0)
Incont										
Low lim,										
ADL &	100(1.1)	0(0)	100(8.1)	0(0)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
Incont										
ADL lim	100(41.9)	0(0)	98.4(31.4)	1.6(0.5)	100(25.5)	0(0)	100(7.5)	0(0)	100(39.2)	0(0)
Incont	100(4)	0(0)	100(1.7)	0(0)	100(0.1)	0(0)	100(1.2)	0(0)	-(0)	-(0)
ADL &										
Incont	100(21)	0(0)	96.7(26.8)	3.3(0.9)	96.4(50.6)	3.6(1.9)	98.4(77.2)	1.6(1.2)	80(47.1)	20(11.8)
lim										
ADL ?										
No Incont	100(5.9)	0(0)	100(19.9)	0(0)	100(21.7)	0(0)	100(10.4)	0(0)	-(0)	-(0)
tot	87.5(87.5)	12.5(12.5)	94.6(94.6)	5.4(5.4)	98.1(98.1)	1.9(1.9)	98.8(98.8)	1.2(1.2)	88.2(88.2)	11.8(11.8)

## Inappropriate use of services

Table 5.11: IC difference of mean between treated and control for the low value IMA outcomes

	Emergency N visits		GP out-of hours N visits		Hospilisation N visits	
	Use	Users	Use	Users	Use	Users
<b>low limit.</b>						
% / Med[IQR] C	21.15	2[2-4]	5.05	2[2-10]	17.07	1[1-1]
% / Med[IQR] T	22.84	1[1-2]	13.94	2[1-2]	36.54	1[1-2]
OR [IC95]	1.18[0.83/1.65]		2.81[1.72/5.19]		2.91[2.13/4.05]	
<b>IADL, (cogn.)</b>						
% / Med[IQR] C	18.93	2[2-4]	13.56	2[2-2]	17.98	1[1-2]
% / Med[IQR] T	25.24	1[1-2]	15.14	1[1-2]	34.38	1[1-2]
OR [IC95]	1.41[0.95/2.16]		0.87[0.52/1.42]		2.27[1.53/3.39]	
<b>func.</b>						
% / Med[IQR] C	19.58	2[2-2]	14.61	2[2-4]	19.5	1[1-2]
% / Med[IQR] T	24.47	1[1-2]	18.7	1[1-2]	47.11	1[1-2]
OR [IC95]	1.29[1.07/1.55]		1.15[0.93/1.42]		4.16[3.48/5.1]	
<b>func., cogn.</b>						
% / Med[IQR] C	16.5	2[2-2]	9.5	2[2-4]	18.75	1[1-1]
% / Med[IQR] T	27.75	2[1-2]	18.5	1[1-2]	30.25	1[1-2]
OR [IC95]	1.93[1.34/2.69]		2.04[1.31/3.22]		1.93[1.37/2.83]	
<b>func., cogn., behav.</b>						
% / Med[IQR] C	27.91	2[2-4]	9.3	2[2-2]	24.42	1[1-1]
% / Med[IQR] T	24.42	2[1-2]	15.12	1[1-2]	32.56	1[1-2]
OR [IC95]	1[0.44/2.34]		1.08[0.23/4.57]		1.5[0.67/3.44]	

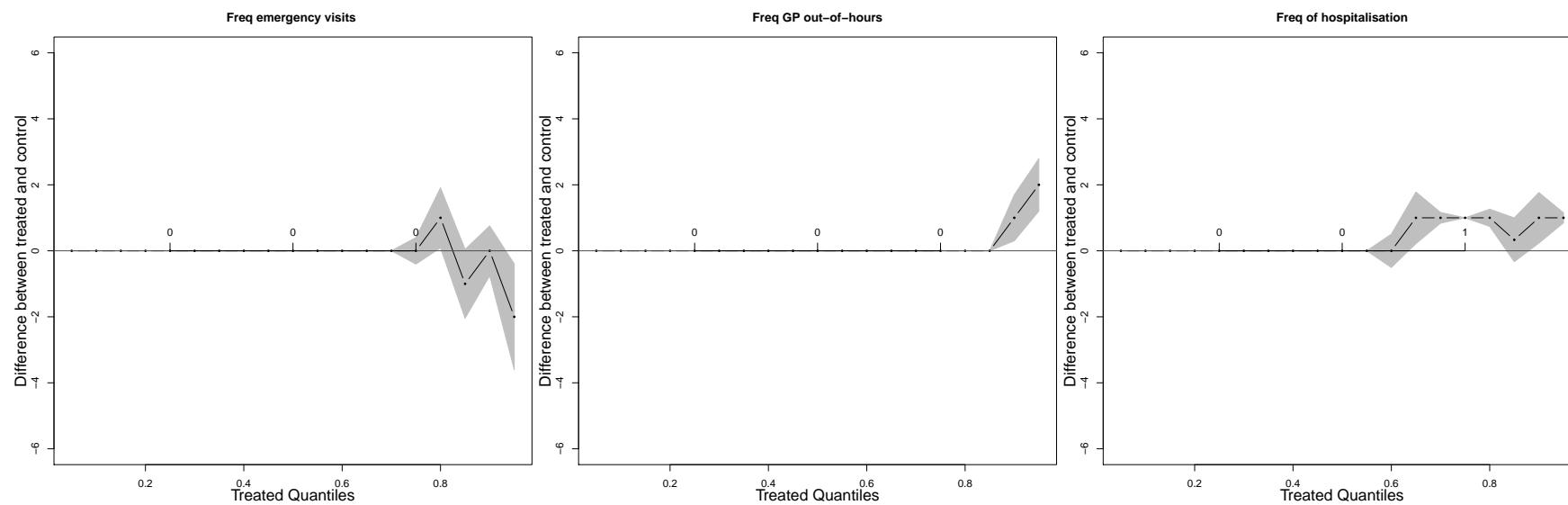


Figure 5.11: Regression quantile of inappropriate use of services (Low limitation)

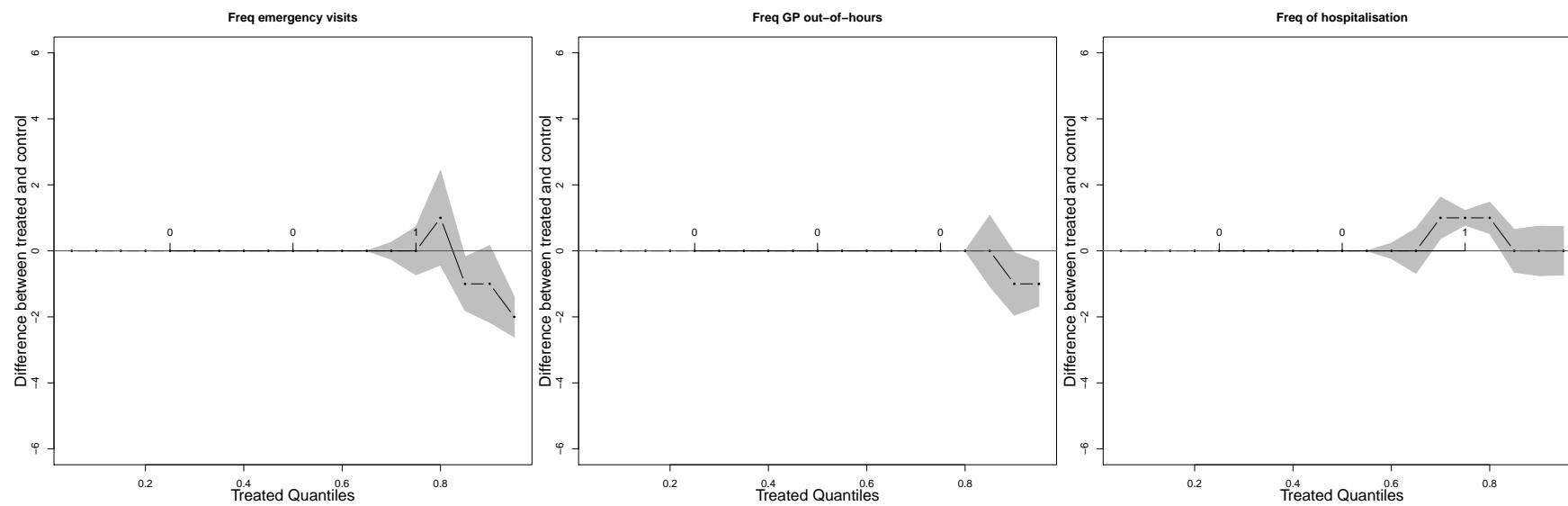


Figure 5.12: Regression quantile of inappropriate use of services (IADL (cogn.))

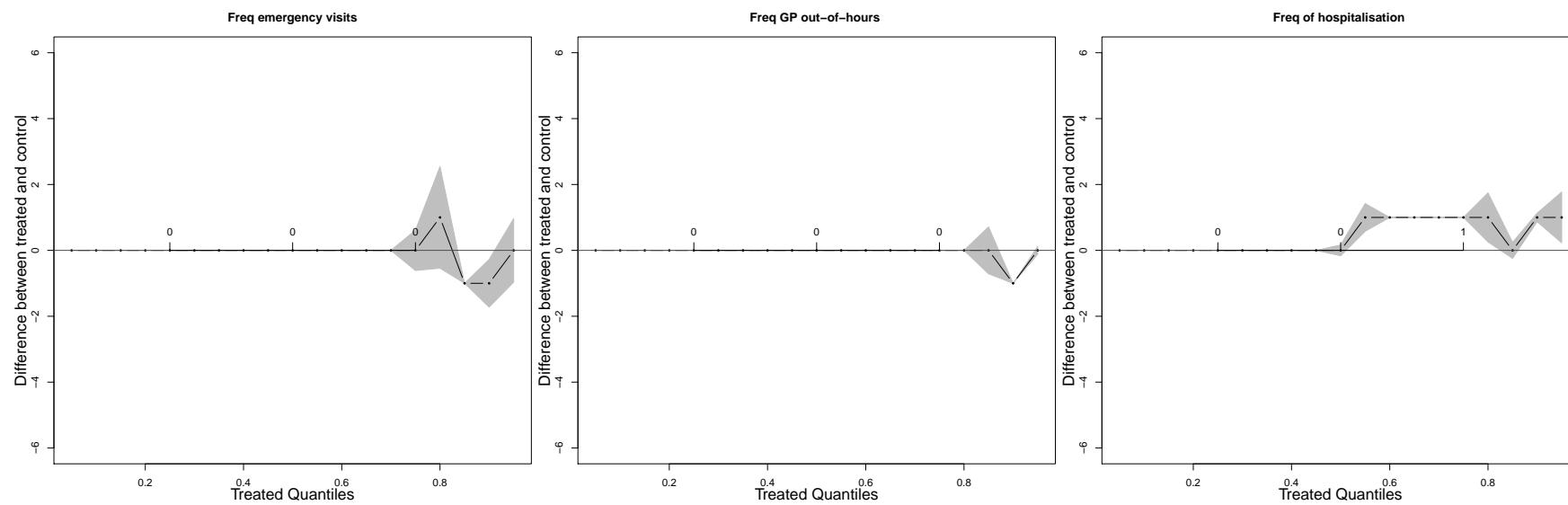


Figure 5.13: Regression quantile of inappropriate use of services (Func.)

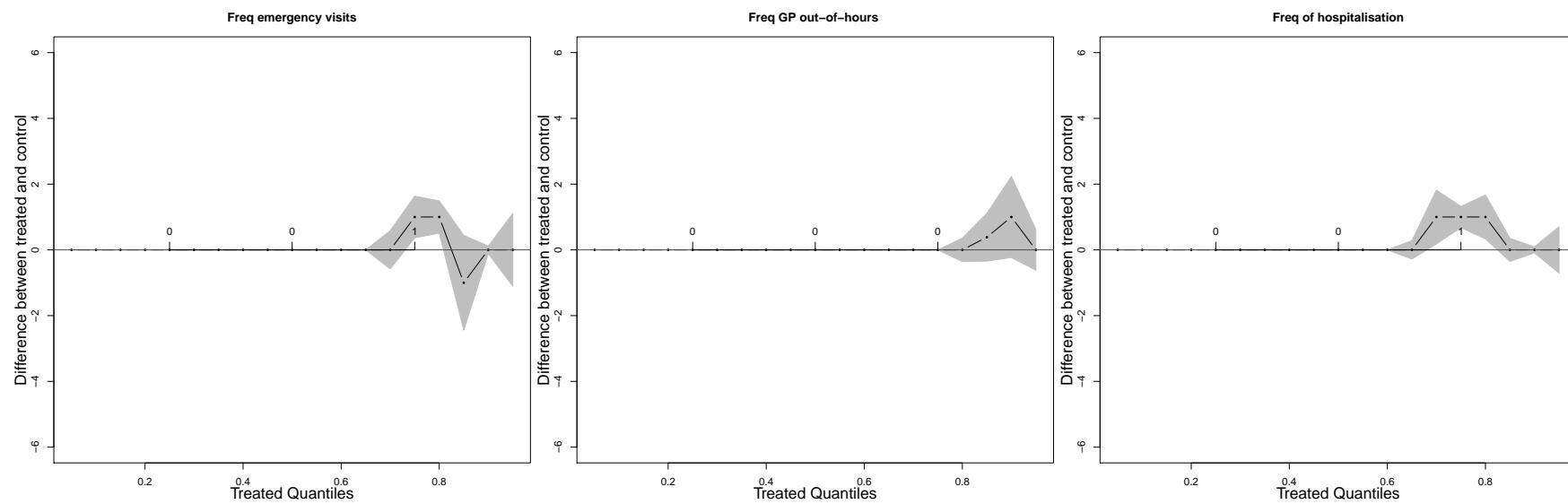


Figure 5.14: Regression quantile of inappropriate use of services (Func., cogn.)

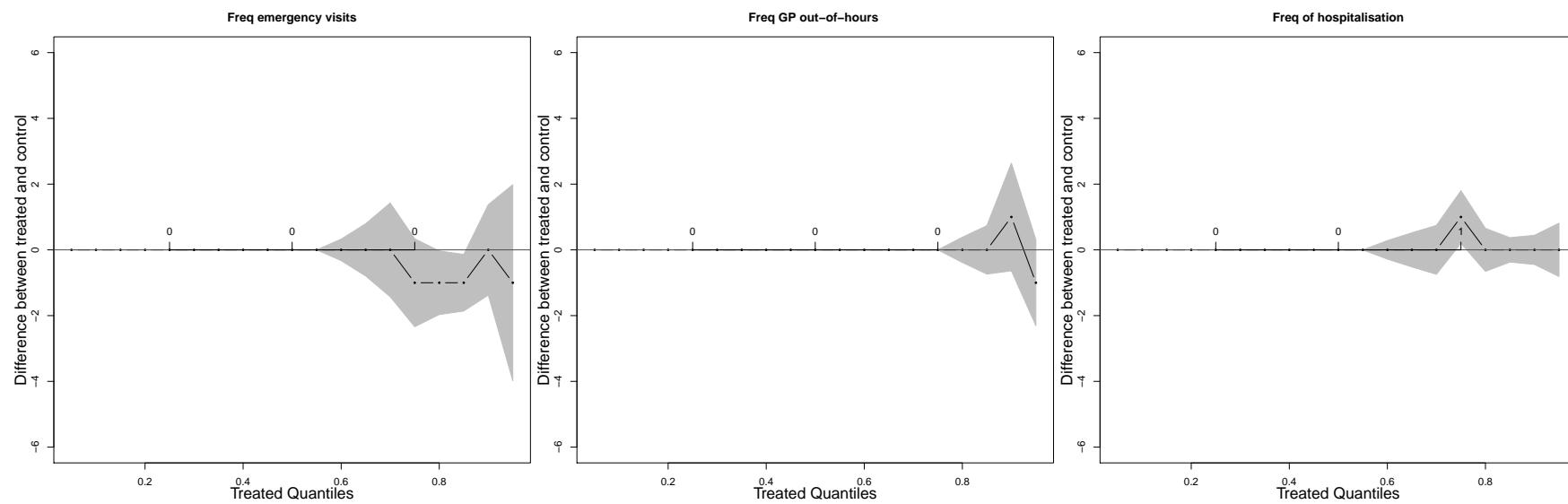


Figure 5.15: Regression quantile of inappropriate use of services (Func., cogn., behav.)

## Definitive institutionalisation and death

Table 5.12: IC of ratio of incidence rate between treated and control for the death and the definitive institutionalisation

	Definitive institu.	Death
<b>low</b>		
<b>limit.</b>		
IR T	0.0058	0.0049
IR C	0.0079	0
IC95	0.37/1.45	NaN/Inf
<b>IADL,</b>		
<b>(cogn.)</b>		
IR T	0.0176	0.0054
IR C	0.0121	0.012
IC95	0.83/2.53	0.21/0.94
<b>func.</b>		
IR T	0.0105	0.0089
IR C	0.0014	0.0048
IC95	4.08/14.38	1.25/2.73
<b>func.,</b>		
<b>cogn.</b>		
IR T	0.0236	0.0255
IR C	0.0246	0.0131
IC95	0.65/1.42	1.25/3.03
<b>func.,</b>		
<b>cogn.,</b>		
<b>behav.</b>		
IR T	0.0381	0.0254
IR C	0.0141	0.0059
IC95	1.11/6.56	1.21/15.13



### 5.1.5 Health care costs linked to disability for the NIHDI

Table 5.13: Average costs of health care services and technical equipment (per month, per patient)

	Interv.		Nurs.		Phys.		Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>														
Mean T	0	169.9	76.3	184.4	17.9	53.4	3.1	6.6	4.7	6.2	3.1	4		
Mean C	0	0	258.6	531.7	36.9	78	1.6	1.4	16.5	3.4	8.5	0.4		
IC95	0/0	165/175	-219/-147	-420/-284	-28/-11	-41/-9	-1/5	1/11	-17/-7	-1/7	-11/-1	1/7		
<b>IADL (cogn.)</b>														
Mean T	0	169.3	110.7	232.5	22	58.7	2.7	9.4	5.5	9.8	0.4	2.9		
Mean C	0	0	411.4	911	75.6	147.1	5.7	23.5	39.7	5.7	4.2	0.1		
IC95	0/0	162/176	-367/-241	-776/-577	-66/-41	-113/-64	-7/0	-25/-3	-42/-26	-1/10	-9/0	0/6		
<b>Func.</b>														
Mean T	0	157.6	206.4	364.2	33.3	106.3	5.5	13.7	9.2	13	2.2	2.6		
Mean C	0	0	808.2	1297.5	107.4	136.6	6.6	59.1	68	19.8	2.6	6.8		
IC95	0/0	155/160	-641/-563	-981/-886	-84/-64	-43/-18	-4/2	-73/-22	-63/-54	-12/-2	-3/2	-8/0		
<b>Func. cogn.</b>														
Mean T	0	165.6	418.4	859	66.4	125.6	18.8	19	22.2	38.2	1.7	7		
Mean C	0	0	1060.2	1835.2	95.4	177.4	11.6	29.2	80.1	30.4	1.1	4.5		
IC95	0/0	158/174	-746/-541	-1129/-843	-48/-9	-83/-20	-22/29	-27/4	-68/-48	-2/17	-2/3	-4/10		
<b>Func. cogn. behav</b>														
Mean T	0	160.4	396.2	785.7	46	72.6	8.9	9.9	18	39.3	1.3	1.3		
Mean C	0	0	749.6	1567.1	95.3	211.7	2.5	33.6	50.4	30.6	0	2.3		
IC95	0/0	141/179	-625/-113	-1114/-487	-84/-12	-212/-74	-3/20	-56/3	-50/-16	-13/30	0/4	-3/2		

Table 5.14: Average costs of other health care services for six months (per month, per patient)

	<b>Daycare</b>		<b>Temp. NH</b>		<b>Def. NH</b>		<b>GP</b>		<b>Spec.</b>		<b>Hosp.</b>	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>												
Mean T	0	1.2	6	18.7	15.9	27.9	41.4	1.5	2.6	762.1	1022.5	
Mean C	0	3.2	15.7	0.6	51.8	50.3	72.7	1.7	2.6	317.7	401.1	
IC95	0/0	-7.3/2	-19.4/-1	9.2/29	-64.2/-13	-29.3/-16	-40.4/-23	-0.9/1	-1.1/1	296.4/597	391/872	
<b>IADL (cogn.)</b>												
Mean T	4.1	7.3	11.9	47.1	83	29.3	43.6	1.8	3.3	1068	979.4	
Mean C	0	9.9	5.4	11.5	70.1	55.2	86.1	1.9	2.5	525.3	493.6	
IC95	0.6/10	-14/8	-0.3/15	16.3/54	-35/58	-32.1/-19	-50.7/-34	-0.9/1	-0.6/2	341.6/745	273.1/711	
<b>Func.</b>												
Mean T	1.8	5.5	8.6	48.4	48.3	37.5	48.5	1.8	1.8	1255.8	1677.3	
Mean C	2.1	5.1	15	12	6.5	66.5	99.6	1.9	2.2	420.5	538.9	
IC95	-2.3/2	-4.1/4	-10.9/-2	26.1/47	29.2/55	-32.7/-25	-56.8/-46	-0.8/0	-1/0	731/948	971.2/1302	
<b>Func. cogn.</b>												
Mean T	20.3	32.5	30.8	48.5	102.4	32.4	68.2	2.1	3	1046.6	1173.7	
Mean C	8	6.4	6.7	18.8	95.8	50.9	107.2	4.8	5	535.8	594.1	
IC95	-1.1/26	11.7/41	14.6/35	13.8/49	-37.7/49	-24.4/-12	-60.4/-19	-4.2/-1	-3.5/0	290/738	295.6/873	
<b>Func. cogn. behav</b>												
Mean T	46	87.2	26.8	75.1	155.8	24.6	38.1	1.8	2.5	659.5	1666.5	
Mean C	8.9	16.6	7	33.2	11.8	28.4	107.7	2.8	4.7	419.6	402.8	
IC95	-1.8/86	3.1/142	0.2/42	-1.7/92	67.6/227	-13.4/6	-120.5/-34	-3.2/1	-4.7/0	-64.5/563	541.5/2055	

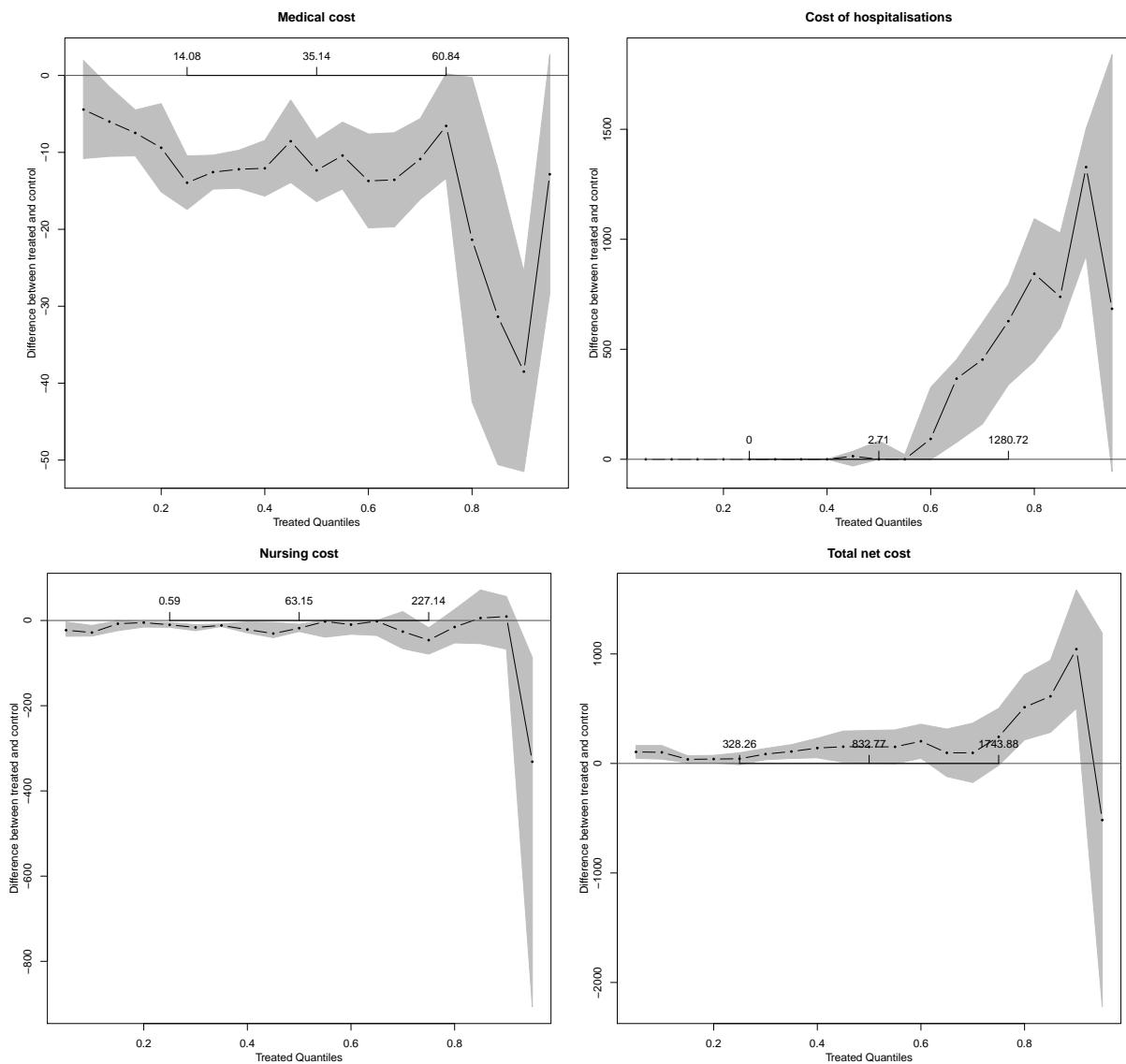


Figure 5.16: Graphs of the differences of costs between treated and control, **for the NIHDI, for the group of low limitations**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

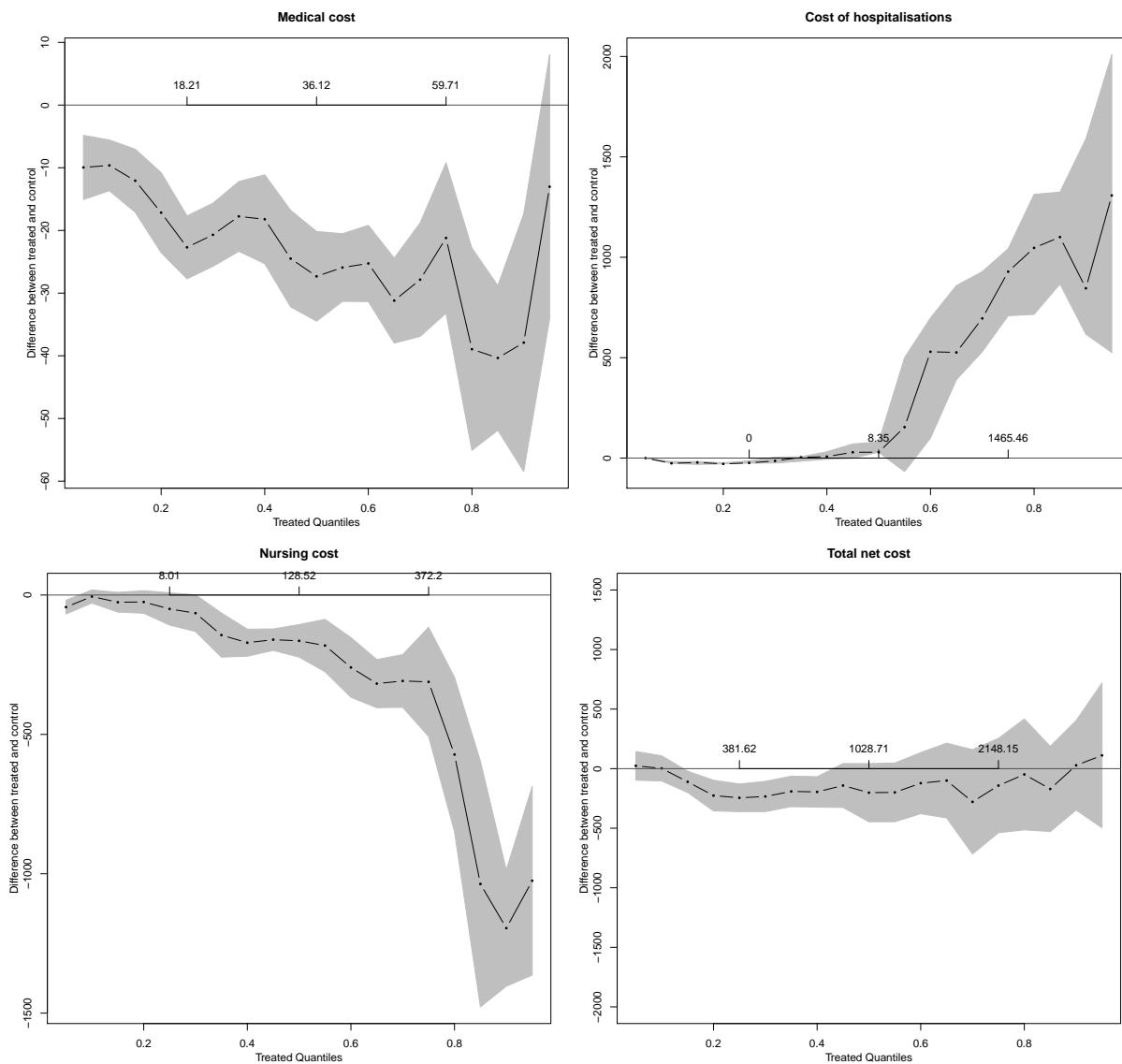


Figure 5.17: Graphs of the differences of costs between treated and control, **for the NIHDI, for the group of IADL limitations (cognitive impairment)**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

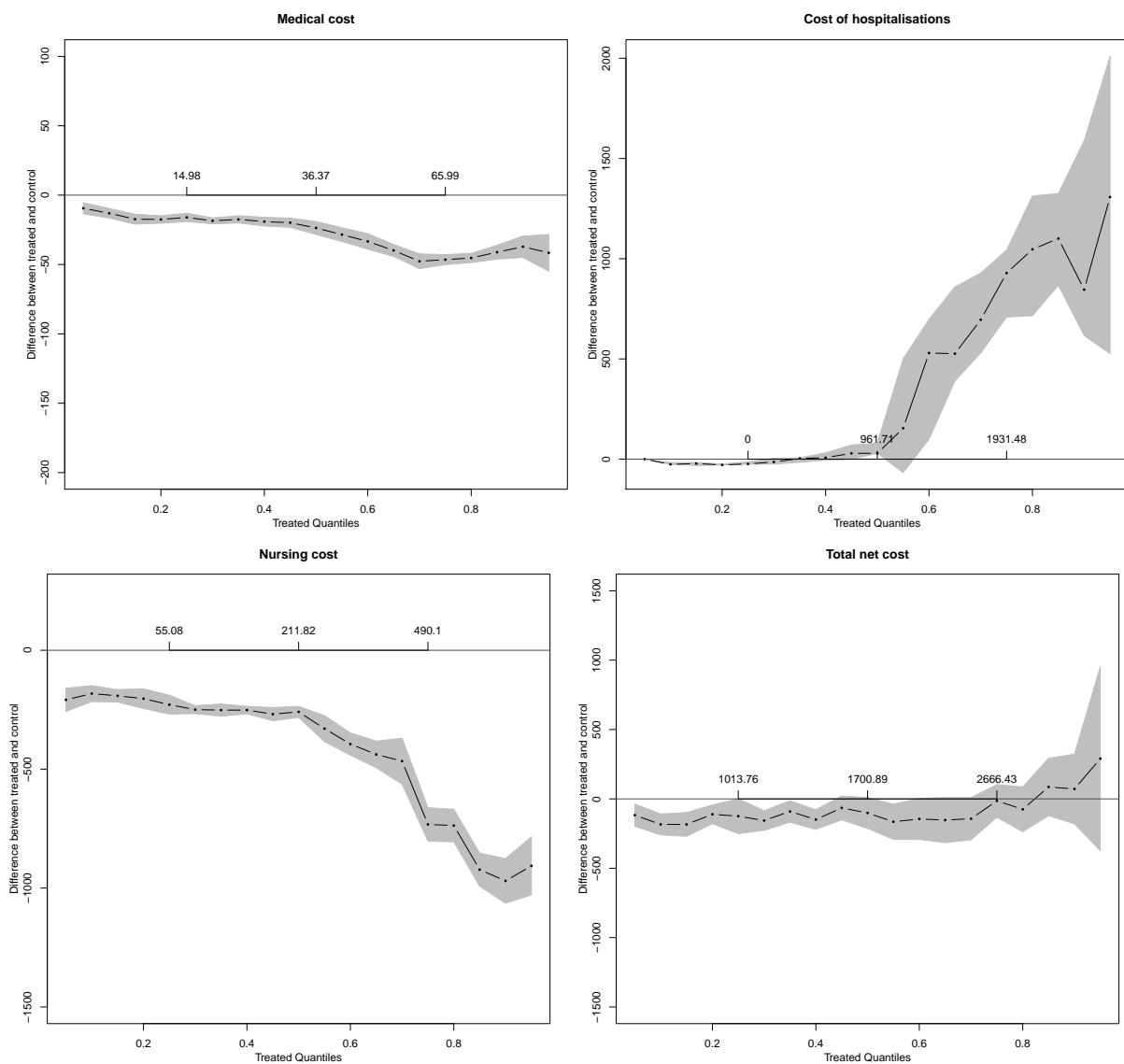


Figure 5.18: Graphs of the differences of costs between treated and control, **for the NIHDI, for the group of functional limitations**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

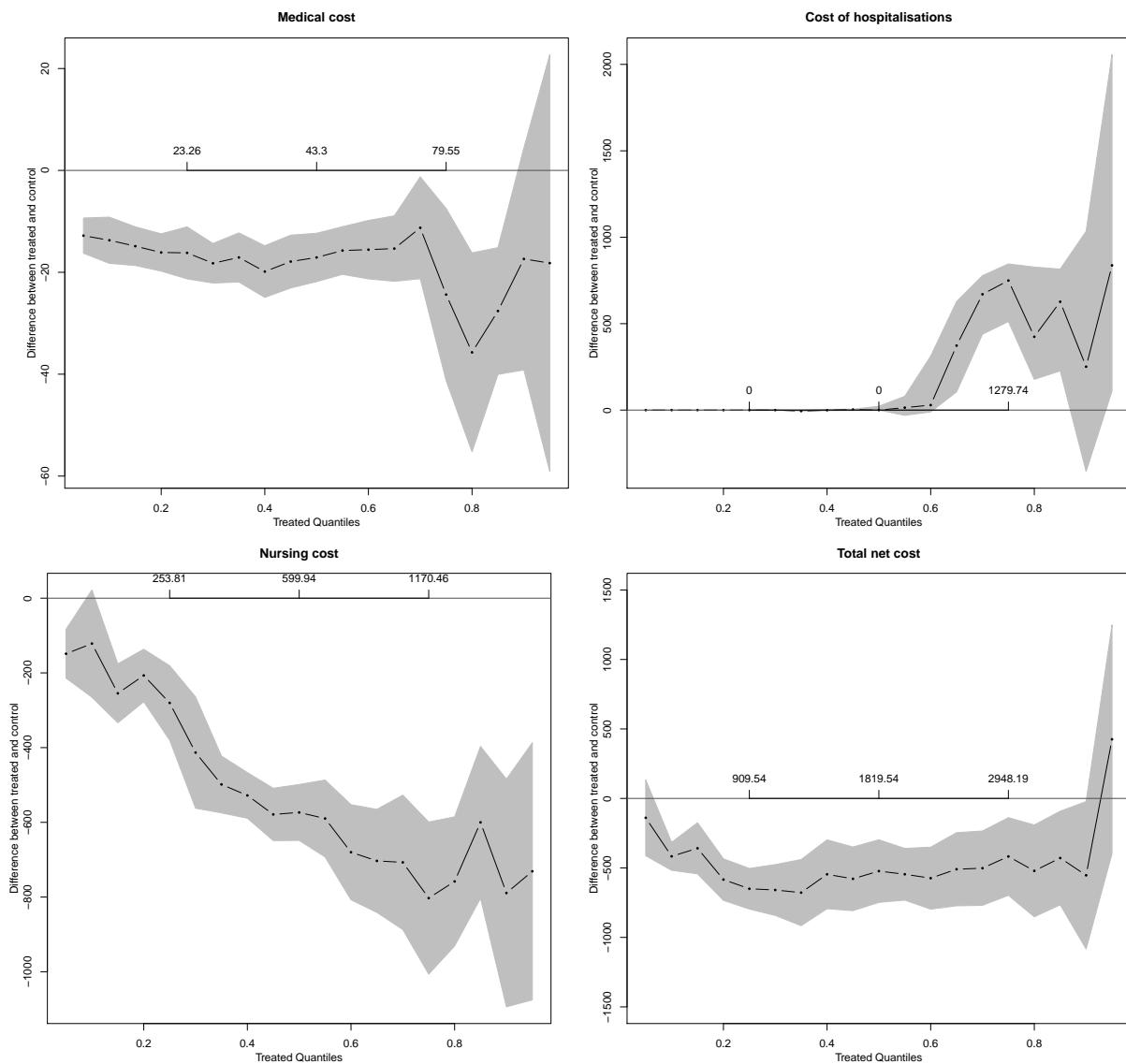


Figure 5.19: Graphs of the differences of costs between treated and control, **for the NHDI, for the group of functional limitations and cognitive impairment**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

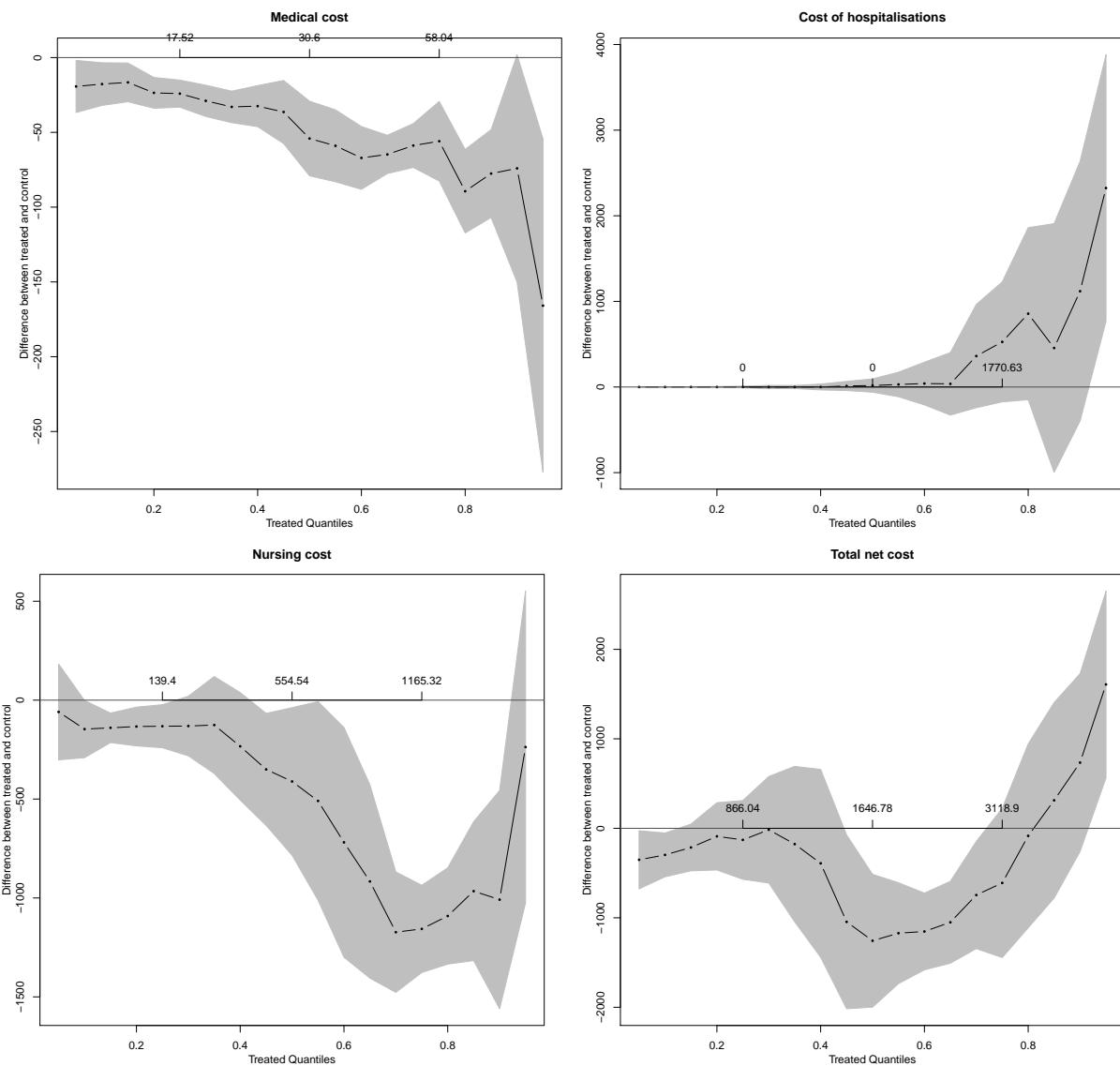


Figure 5.20: Graphs of the differences of costs between treated and control, **for the NIHDI, for the group of functional limitations, cognitive impairment and behavioural problems**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)



### 5.1.6 Health care costs linked to disability for the patients

Table 5.15: Average costs of health care services and technical equipment for six months (per month, per patient)

	Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>										
Mean T	1.6	8.6	3.7	11.1	0	0	17.6	17.6	4.3	1.7
Mean C	5.3	6.6	11.9	17.4	0	0	25.8	25.8	11.3	0.2
IC95	-6/-1.4	-1.6/6	-10.7/-5.8	-10.1/-2.7	0/0	-0.1/0	-14/-2.2	-14/-2.7	-13.8/-0.7	0.1/3.4
<b>IADL (cogn.)</b>										
Mean T	1.9	6.5	4.7	11.6	0	0.2	29.1	29.1	0.6	7
Mean C	8.6	19.7	13	26.3	0	0.1	46	46	2.6	0
IC95	-10.4/-3.2	-19.4/-7.5	-11.2/-5.3	-19.2/-10.3	0/0.1	-0.2/0.4	-24/-9.3	-24.3/-8.9	-6.2/0.9	0/17.1
<b>Func.</b>										
Mean T	1.2	5.4	6	19.6	0	0.1	20.2	20.2	2.6	2.6
Mean C	2.8	4.9	17.7	32.9	0	0	49.4	49.4	0.2	2.4
IC95	-2.6/-0.4	-1.5/2.8	-13.4/-9.9	-17.1/-9.3	0/0	0/0.2	-32.5/-25.9	-32.6/-25.9	0.9/4.3	-2.5/3.4
<b>Func. cogn.</b>										
Mean T	3.7	14.2	12.4	22.9	0.9	0.4	58.2	58.2	0.7	5
Mean C	3.3	12.1	15.8	29.5	0	0	73.8	73.9	1.1	1.9
IC95	-2.4/3.6	-4.4/8.8	-7.1/0.5	-14.2/0.6	0/2.5	0/1.1	-21.7/-9.4	-21.9/-9.3	-2.5/1.5	-1.4/8.9
<b>Func. cogn. behav</b>										
Mean T	2.2	5.6	5.3	12.7	0.1	0	54.7	54.7	2	2.6
Mean C	3.9	27.9	9.4	28.8	0.1	0	58.1	58.1	0	0
IC95	-7.6/3.2	-37/-10.4	-9.1/0.3	-25.7/-5.7	-0.2/0.2	0/0	-18.6/10.5	-17.4/10.5	0/6	0/7.9

Table 5.16: Average costs of other health care services for six months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef
<b>Low limit.</b>												
Mean T	0	0.4	6.5	23.4	14.8	4.8	7	0.3	0.6	55.1	57.1	
Mean C	0	1.2	14.8	0.6	59.5	10.5	14.3	0.5	0.9	30.4	28.8	
IC95	0/0	-2.8/0.6	-17.4/1.6	13.7/33.4	-73.9/-19.6	6/44.1	13/44.6	-7.1/-4.4	-9.3/-5.4	-0.3/0.1	-0.7/0.1	
<b>IADL</b>												
(cogn.)												
Mean T	0.4	1.7	5.1	45.3	67.6	4.9	7.5	0.6	1	38.4	33.4	
Mean C	0	4	7.6	14.1	49.9	8.8	12.9	0.7	0.8	31.2	29.7	
IC95	0/0.9	-7.4/1.6	-8.4/4.6	11.4/54.6	-26.7/58.2	-9.2/22.5	-11.6/17.5	-5.8/-2.2	-8/-2.8	-0.4/0.2	-0.2/0.6	
<b>Func.</b>												
Mean T												
Mean T	0.6	2	9.1	65.9	40.5	5.7	7.6	0.3	0.3	77.7	98.2	
Mean C	0.3	1.5	18.4	18.5	8.8	9.8	13	0.3	0.2	19.8	20.5	
IC95	-0.3/1	-1.1/2	-14.4/-4.2	35.2/60	19.1/45.3	47.8/69.2	66.4/90.1	-5.2/-2.9	-6.7/-4.1	-0.1/0.2	0/0.2	
<b>Func. cogn.</b>												
Mean T												
Mean T	7.8	11.4	24.7	43.3	91.4	4.8	9	0.6	0.7	42.3	40.4	
Mean C	1.5	1.2	4.1	18.6	92.4	8.2	11.7	0.9	1.1	27.7	24.1	
IC95	1.7/11.3	5.2/15.4	11.5/30.7	9.7/41.8	-42/34.2	-1.1/30.6	2.8/30.1	-5.5/-1.5	-5.4/0.6	-0.7/0.1	-0.8/0.1	
<b>Func. cogn. behav</b>												
Mean T												
Mean T	13.6	29.6	32.2	71.8	123.9	2.4	5	0.3	0.5	23.9	36.2	
Mean C	3.6	6.7	7.1	40.5	14	2.5	7.5	0.3	0.5	34.4	27	
IC95	-2.9/27	-1.6/53.7	1.2/53	-15.1/80.6	39.7/188.4	-33.1/13.7	-11.7/33	-1.6/1.3	-4.6/-0.2	-0.3/0.3	-0.4/0.4	

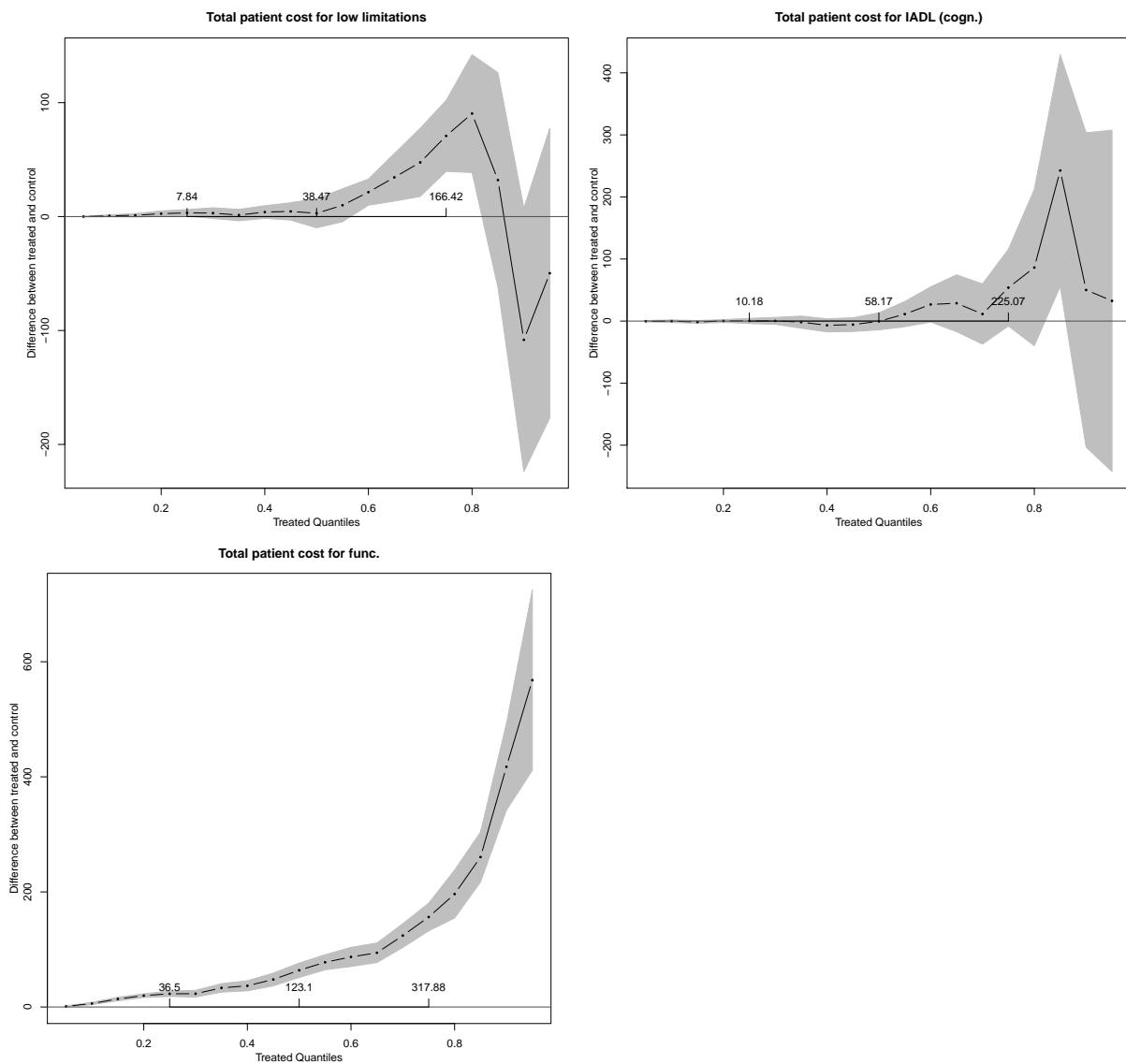


Figure 5.21: Graphs of the differences of the total cost for patients between treated and control, for six months, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

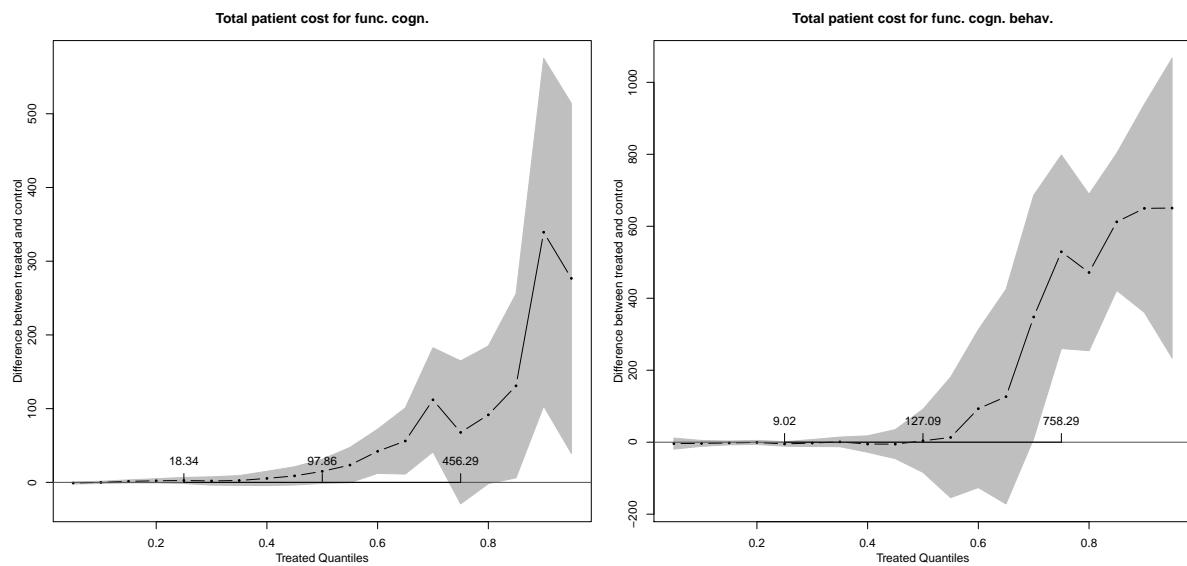


Figure 5.22: Graphs of the differences of the total cost for patients between treated and control, for six months, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

### 5.1.7 Cost differences for the stakeholders between treated and control

Table 5.17: Average cost differences between treated and control group per month (adjusted according to the level of cost before intervention, socio economic proxy and deaths)

	NIHDI Home		NIHDI Home + hosp. + inter		All NIHDI + patients + regions	
	Diff mean adj.	IC95	Diff mean adj.	IC95	Diff mean adj.	IC95
Low limit.	-80	-132.1/-22.6	368	148.9/611.9	295	73.6/560.8
IADL (cogn.)	-345	-398/-284.6	-145	-301.2/30.6	-74	-282.2/163.7
Func.	-425	-456.8/-392.1	12	-108.7/139.9	244	101.8/397.2
Func. cogn.	-516	-608.9/-406	-411	-593/-191.1	-230	-460.2/27.2
Func. cogn. behav.	-492	-681.7/-242.5	-113	-579.3/471.3	478	-251.3/1287.7

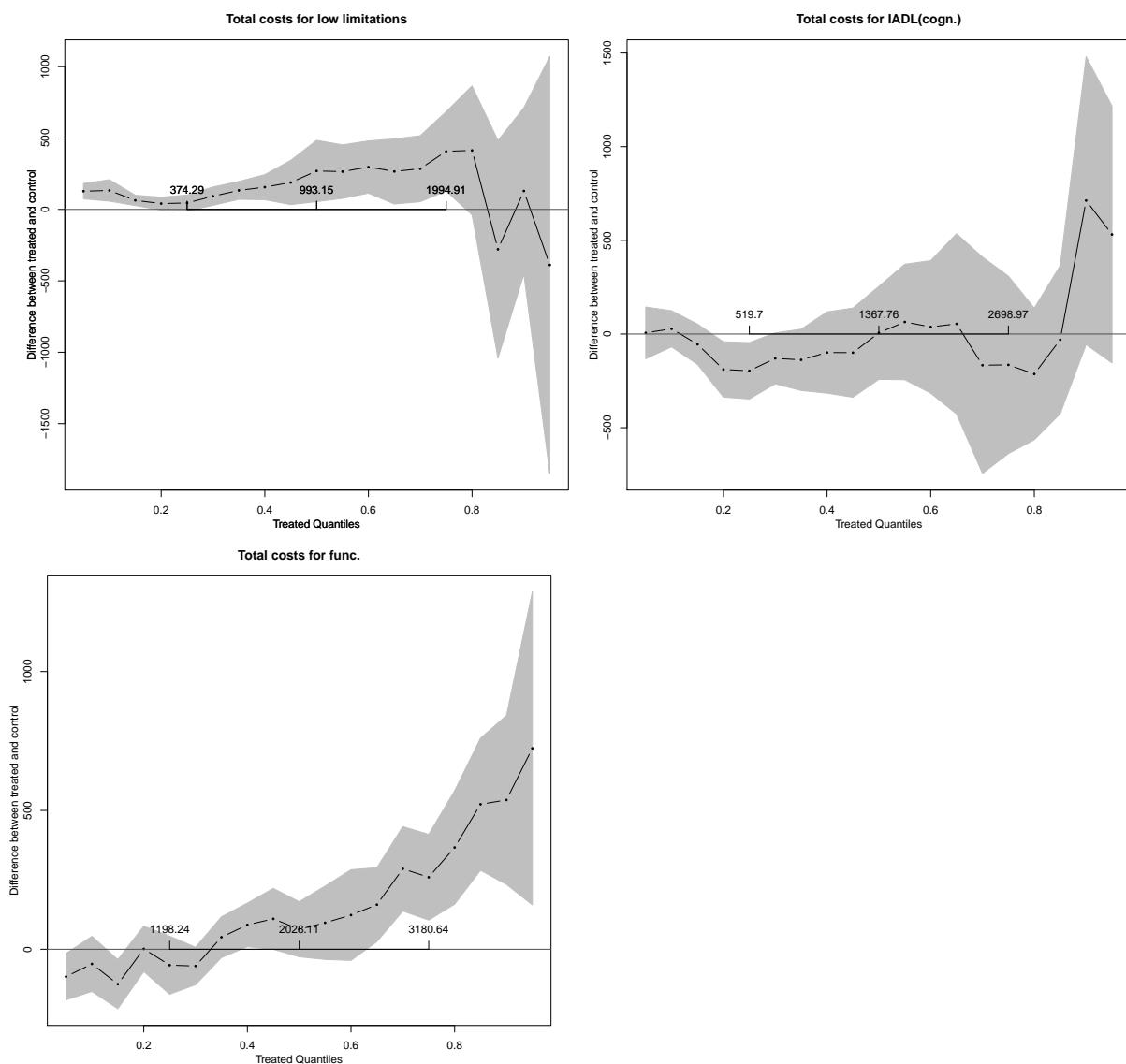


Figure 5.23: Graphs of the differences of the total cost at home for all stakeholders between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the total cost before intervention (per month, per client)

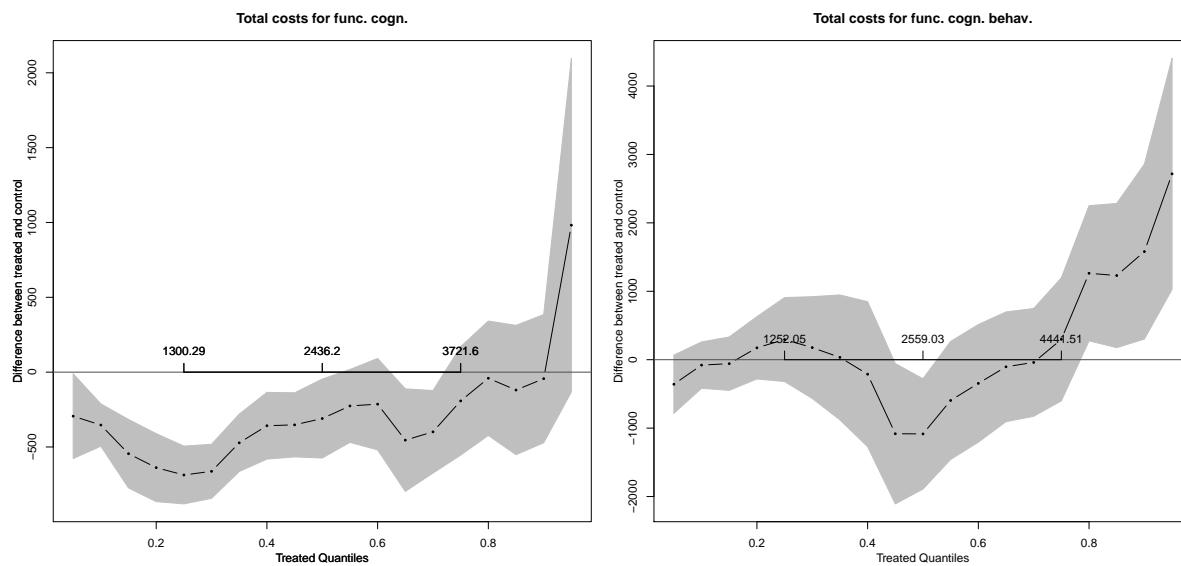


Figure 5.24: Graphs of the differences of the total cost for all stakeholders at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the total cost before intervention (per month, per client)

### 5.1.8 Social care services

Table 5.18: Average costs per month (before evaluations)

	Fam. care		Household aid		Meals-on-Wheels	
	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>						
Mean T	554.1	547.2	362.3	563.6	12.4	18.9
IC95 T	448/675	429/668	314/410	482/657	8/18	12/26
Missing T (%)	35.5	45	16.3	26.7	16.3	26.3
Mean C	555.5	426.6	259.5	289.9	18.7	13.3
IC95 C	324/816	347/538	224/297	257/323	14/24	9/18
Missing C (%)	58.2	41.8	2.2	8.9	2.2	8.9
<b>IADL (cogn.)</b>						
Mean T	790.5	811.7	339.8	514.6	22.9	23.5
IC95 T	724/862	734/895	312/369	480/555	19/27	19/28
Missing T (%)	29.9	43.4	19.2	29.8	19.2	29.8
Mean C	785.1	653.5	395.9	410.3	31.2	23.8
IC95 C	678/898	546/757	371/420	382/440	28/35	21/27
Missing C (%)	47.6	56.3	1.2	14	1.2	14
<b>Func.</b>						
Mean T	1220.6	1088.5	448.6	606.8	21.7	22.9
IC95 T	1087/1366	957/1218	408/499	548/660	17/26	18/27
Missing T (%)	28.4	38.8	17.9	23.4	17.8	23.1
Mean C	1141.5	1081.3	470.6	510	29.9	32.4
IC95 C	974/1307	913/1248	433/507	466/558	25/35	28/37
Missing C (%)	46.5	44.4	2.7	10.4	2.7	10.4
<b>Func. cogn.</b>						
Mean T	2079.8	2282.1	577.1	640.6	17.7	22.5
IC95 T	1744/2420	1950/2655	486/669	545/752	12/25	14/32
Missing T (%)	42.1	47.5	17.4	25.2	17.4	25.2
Mean C	2195.3	2220.8	565.5	668.4	19.5	18.4
IC95 C	1802/2593	1839/2597	476/658	571/782	13/27	12/26
Missing C (%)	50	47.9	2.9	9.5	2.9	9.5
<b>Func. cogn. behav.</b>						
Mean T	2526	2942.5	532.7	493.2	21.3	28.7
IC95 T	1846/3266	2152/3805	361/731	302/745	6/38	11/52
Missing T (%)	26.9	44.2	9.6	28.9	9.6	28.9
Mean C	1679.2	2343.2	414	460.8	15.9	25.3
IC95 C	897/2581	1510/3224	267/584	326/614	4/28	10/44
Missing C (%)	42.3	42.3	1.9	19.2	1.9	19.2

### 5.1.9 Number of days at home and in residential care facilities for six months

Table 5.19: Average number of days for 6 months

	Temp. NH		Hosp.		Def. NH		Days home		Days alive
	Bef	Aft	Bef	Aft	Aft		Bef	Aft	Aft
<b>Low limit.</b>									
Mean T	0.7	2.8	9.7	10.3	1.9		164.1	157.1	178.7
Mean C	1.6	0.1	3.7	3.6	6.5		157.9	154.6	182.5
Diff. TC. IC95	-1.9/0	1.7/4	3.7/8	4.7/9	-7.7/-2		-0.5/12	-5.3/9	-5.4/-2
<b>IADL (cogn.)</b>									
Mean T	1.1	5.7	13.9	11.6	9.1		161.4	147.9	178.5
Mean C	0.7	1.3	5.9	4.7	8.7		162.1	150.1	175.9
Diff. TC. IC95	-0.3/1	2.3/7	5.3/11	4.7/9	-4.7/6		-6.9/6	-11.2/7	-0.6/6
<b>Func.</b>									
Mean T	1	7.4	14.8	16.3	4.9		164.1	146.1	175.9
Mean C	1.8	1.6	5	5.2	0.8		158.8	155.9	178.8
Diff. TC. IC95	-1.2/0	4.6/7	8.5/11	9.7/12	2.7/5		2.2/8	-13.7/-6	-4.6/-1
<b>Func. cogn.</b>									
Mean T	3.3	4.8	13.9	10.5	11.1		156.3	132.9	165.9
Mean C	0.6	2.2	6.1	5.4	10.2		166	148.5	173.6
Diff. TC. IC95	1.6/4	1/4	5.1/11	2.9/7	-3.6/5		-15.2/-4	-24.2/-7	-12.3/-4
<b>Func. cogn. behav.</b>									
Mean T	3.5	8.1	8.6	14.4	16.6		165.3	124.1	166.3
Mean C	0.7	3.6	7	4.9	1.4		173.7	167.9	177.7
Diff. TC. IC95	0.4/5	-0.4/10	-2.7/6	4.4/15	7.8/24		-16.1/-1	-59.5/-28	-22.2/-2

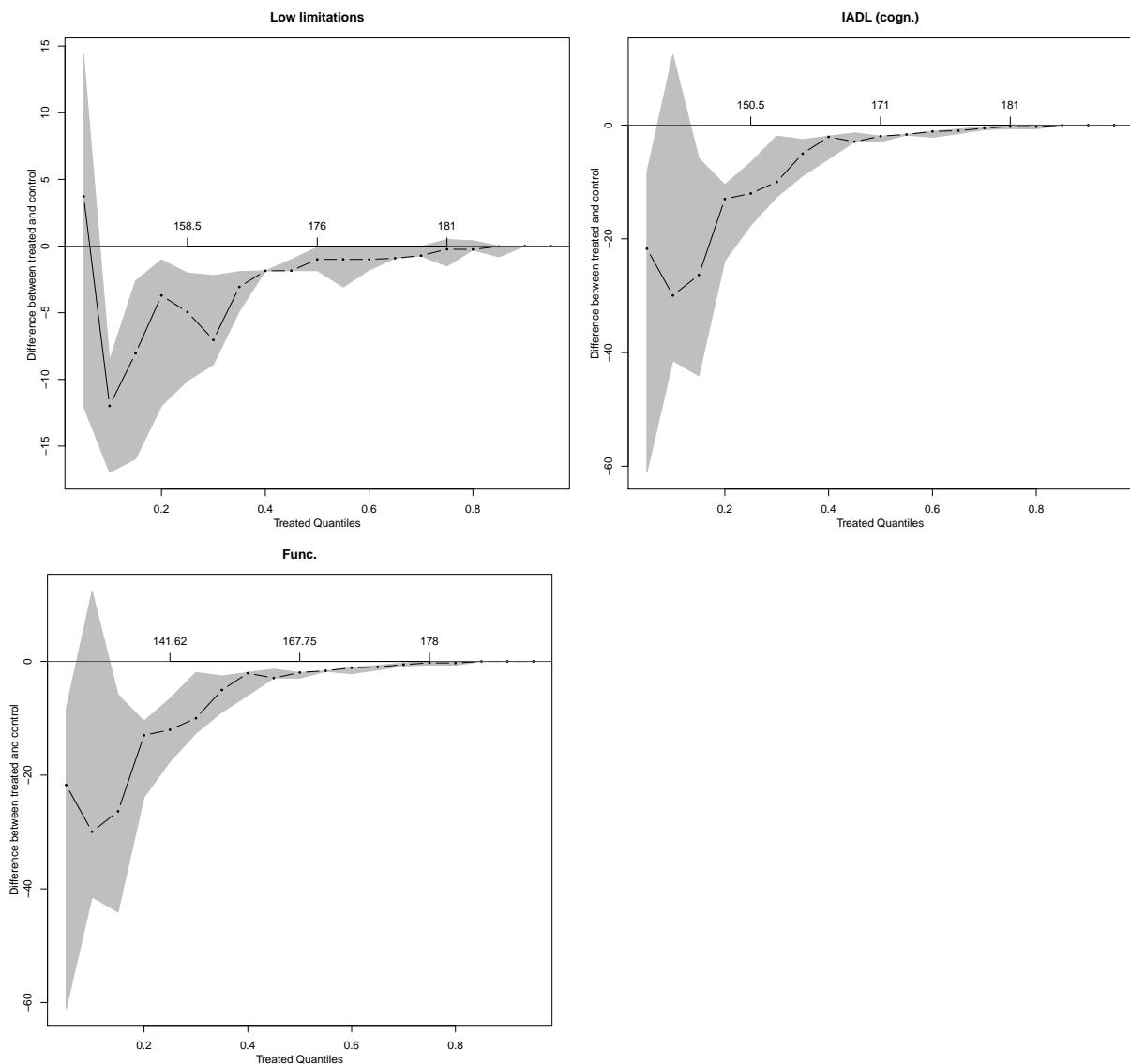


Figure 5.25: Graphs of the differences of days spent at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the number of days at home before intervention

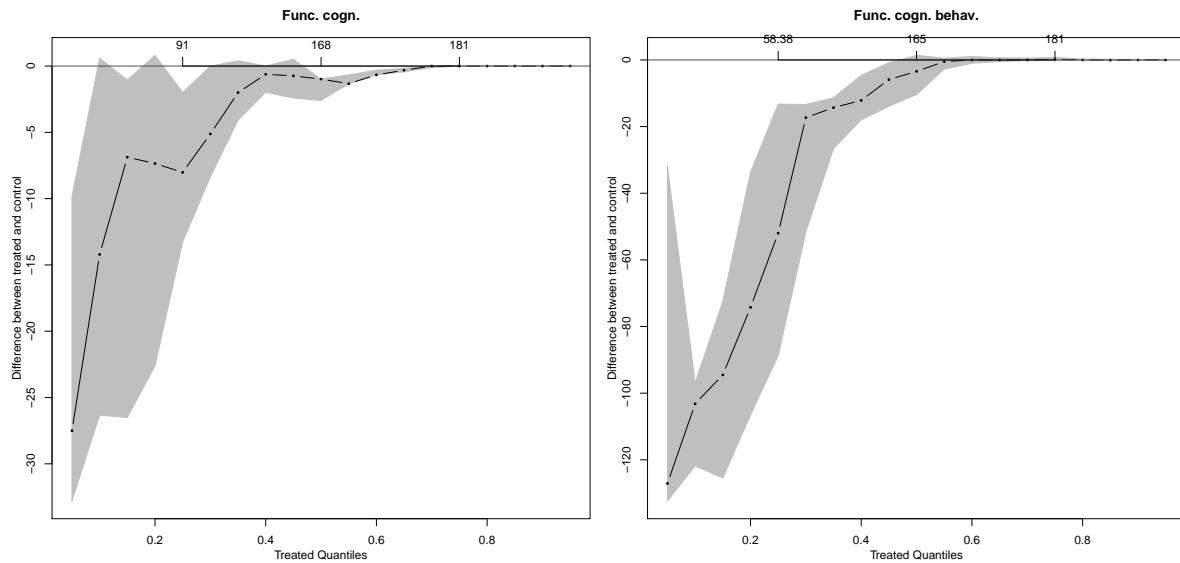


Figure 5.26: Graphs of the differences of days spent at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the number of days at home before intervention

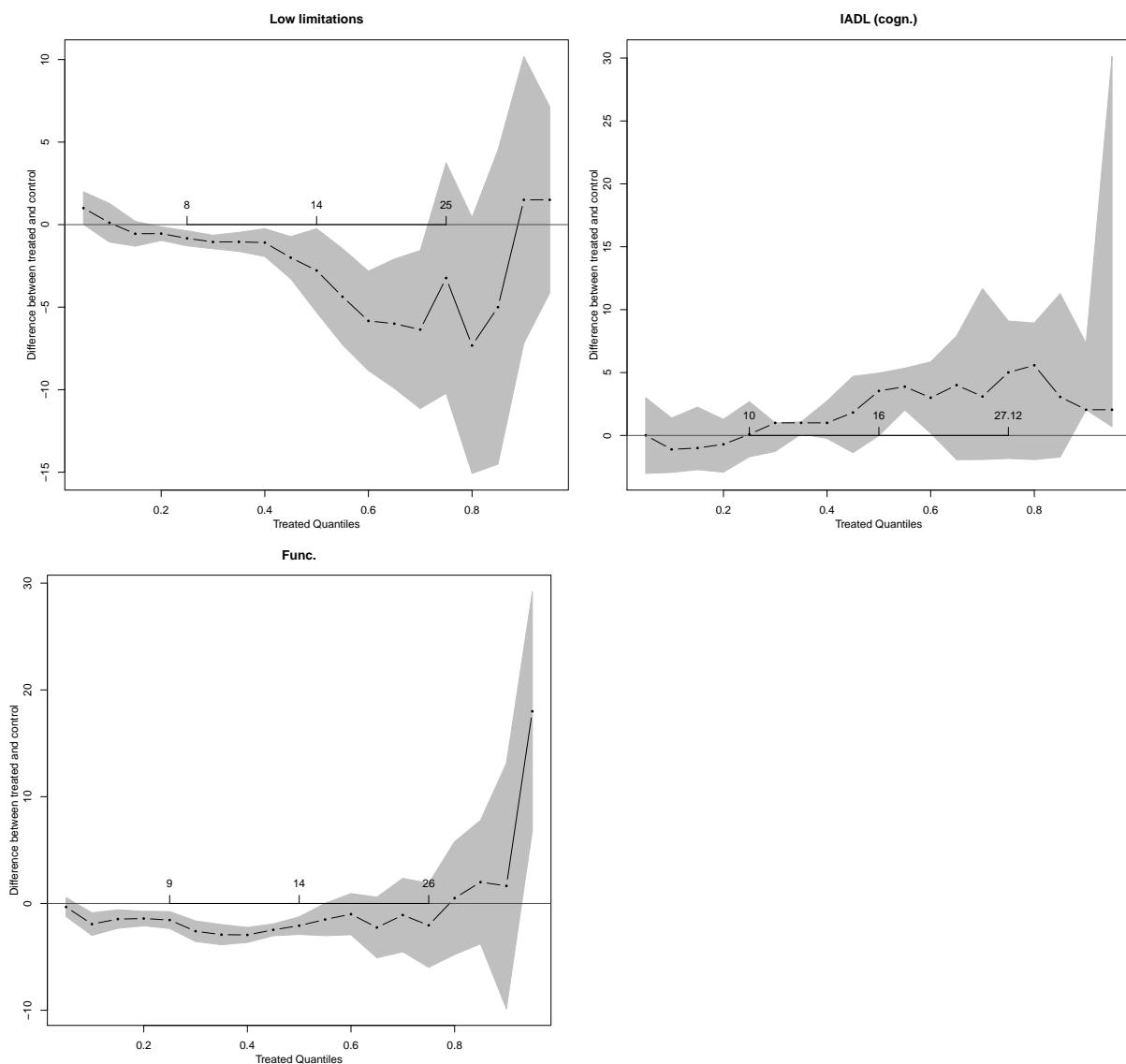


Figure 5.27: Graphs of the differences of days spent in hospital between treated and control, for six months, only for people with at least one hospitalisation, adjusted according to the proxy of the socio economic status and the number of days alive for six months

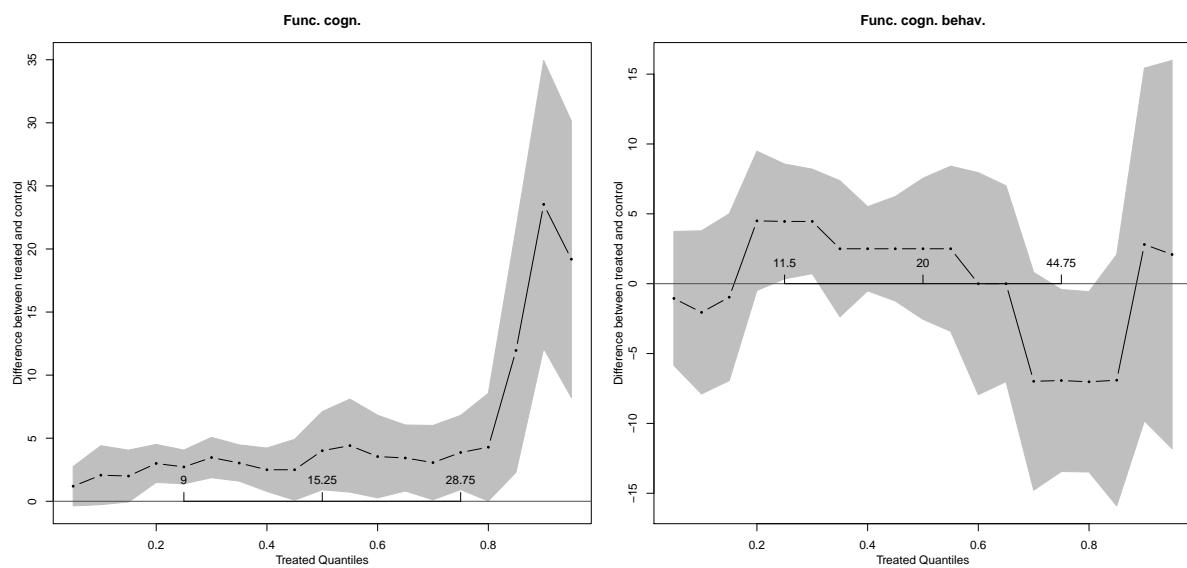


Figure 5.28: Graphs of the differences of days spent in hospital between treated and control, for six months, only for people with at least one hospitalisation, adjusted according to the proxy of the socio economic status and the number of days alive for six months

# Chapter 6

## F1P1I1

### 6.1 Comparison with the BelRAI control group

#### 6.1.1 Description of disability groups

Table 6.1: Proportion above the cut off of BelRAI scales depend on the subgroups of disability for the project F1P1I1

	low limit.	IADL, (cogn.)	func.	func., cogn.	func., cogn., behav.
IADL	2.56	92.03	89.19	99.39	98.44
ADL	2.28	0.33	98.80	75.76	51.56
CPS	9.97	23.26	0.60	95.15	95.31
Behav.	11.11	13.29	4.50	31.52	100.00
DRS	32.48	36.88	16.22	36.97	60.94
N	351.00	301.00	333.00	165.00	64.00

## 6.1.2 Description of socio-demographic variables

Table 6.2: Sociodemographic characteristics for the treated and the control group depend on the health profiles

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	T	C	T	C	T	C	T	C	T	C
<b>Age</b>										
Median[IQR]	79[74-82]	81[77-87]	80[75-86]	81[74-87]	81[76-86]	83[79-88]	83[77-87]	85[80-87]	78[71-83]	80[70-87]
<b>Gender</b>										
% Men	29.63	19.66	28.9	30.23	25.23	34.83	31.52	29.09	53.12	42.19
% Women	70.37	80.34	71.1	69.77	74.77	65.17	68.48	70.91	46.88	57.81
<b>ICG</b>										
% No ICG	49.57	50.14	31.89	31.89	45.35	45.35	0	0	0	0
% No cohabitant	30.77	30.2	36.54	36.54	35.74	35.74	43.64	43.64	20.31	20.31
% Cohabitant	19.66	19.66	31.56	31.56	18.92	18.92	56.36	56.36	79.69	79.69
<b>Region</b>										
Bruxelles	19.94	0	17.28	0	5.41	0	12.12	0	7.81	0
Flandre	63.25	43.02	66.11	32.89	91.29	85.59	62.42	81.82	62.5	43.75
Wallonie	16.81	56.98	16.61	67.11	3.3	14.41	25.45	18.18	29.69	56.25
<b>Median income</b>										
Low	28.21	23.65	30.23	52.49	19.82	14.41	29.7	6.06	21.88	42.19
Medium	55.56	52.42	49.17	30.23	60.06	51.95	55.15	53.33	68.75	32.81
High	16.24	23.93	20.6	17.28	20.12	33.63	15.15	40.61	9.38	25
<b>N</b>										
Unique value	351	60	301	91	333	135	165	66	64	18



### 6.1.3 Clinical outcome

Table 6.3: BelRai outcomes

	ADL		IADL		Falls	
	Bef	Aft	Bef	Aft	Bef	Aft
<b>low limit.</b>						
% cut off C	6.57	14.87	5.14	16.67	22.02	23.28
% cut off T	2.29	2.92	2.57	17.84	22.94	16.72
IC95	0.33[0.11/0.73]	0.15[0.04/0.39]	0.49[0.18/1.06]	0.91[0.59/1.44]	1.05[0.73/1.58]	0.6[0.39/0.86]
% NA	0	2	0	2.29	6.57	12.86
<b>IADL, (cogn.)</b>						
% cut off C	6.64	12.24	79.4	75.37	26.22	16.67
% cut off T	0.33	6.46	92.03	77.94	32.21	25.56
IC95	0.05[0/0.18]	0.55[0.28/1]	2.99[1.8/5.1]	0.47[0.27/0.79]	1.34[0.92/1.98]	1.46[0.9/2.35]
% NA	0	2.33	0	9.63	11.3	10.3
<b>func.</b>						
% cut off C	94.55	92.35	89.39	89.39	27.44	29.7
% cut off T	99.09	59.94	89.39	79.7	44.16	27.39
IC95	6.29[2.2/63886368.71]	0.11[0.07/0.17]	1[0.58/1.58]	0.27[0.14/0.46]	2.09[1.49/2.96]	0.42[0.22/0.68]
% NA	0	0.91	0	0	3.94	8.18
<b>func., cogn.</b>						
% cut off C	92.68	93.63	100	100	27.15	33.33
% cut off T	75.61	75.16	99.39	98.14	39.07	25.17
IC95	0.24[0.11/0.45]	0.22[0.08/0.53]	-[-/-]	-[-/-]	1.72[1.02/2.87]	0.4[0.19/0.74]
% NA	0	4.27	0	1.83	7.93	10.37
<b>func., cogn., behav.</b>						
% cut off C	79.69	79.03	100	100	28.12	33.33
% cut off T	51.56	58.06	98.44	95.31	40.62	31.67
IC95	0.27[0.11/0.58]	0.8[0.25/2.3]	-[-/-]	-[-/-]	1.75[0.88/3.67]	0.64[0.24/1.57]
% NA	0	3.12	0	0	0	6.25

Table 6.4: Zarit outcome

	Non Cohab		Cohab	
	Bef	Aft	Bef	Aft
<b>low limit.</b>				
% cut off C	11.76	9.68	14.89	40
% cut off T	43.53	46.77	46.81	60
IC95	5.78[2.89/14.04]	2.57[0.55/21.17]	5.03[1.98/17.18]	4.99[0.35/2149072627313065]
% NA	20.19	41.78	31.88	20.29
<b>IADL, (cogn.)</b>				
% cut off C	14.61	38.81	44.44	15.28
% cut off T	66.29	56.72	48.89	47.22
IC95	11.5[5.91/28.23]	0.43[0.05/1.11]	1.2[0.67/2.09]	7.88[3.29/39.19]
% NA	19.09	39.09	5.26	24.21
<b>func.</b>				
% cut off C	36.36	34.78	37.04	19.05
% cut off T	23.23	32.61	40.74	66.67
IC95	0.53[0.26/0.94]	1.44[0.29/8.66]	1.17[0.53/2.56]	2.31[0/2.42362073816124e+104]
% NA	16.81	61.34	12.9	66.13
<b>func., cogn.</b>				
% cut off C	58.73	48.72	49.4	56.45
% cut off T	63.49	48.72	73.49	83.87
IC95	1.22[0.59/2.67]	0.47[0.02/2.78]	2.84[1.51/5.78]	3.54[0.6/70.36]
% NA	12.5	45.83	9.78	32.61
<b>func., cogn., behav.</b>				
% cut off C	75	75	62	67.44
% cut off T	100	100	80	86.05
IC95	-[-/-]	-[-/-]	2.45[1.03/7.04]	5.51[1.02/560.49]
% NA	38.46	69.23	1.96	15.69

Table 6.5: DRS outcomes

	Bef	Aft
<b>low limit.</b>		
% cut off C	19.43	21.84
% cut off T	32.29	30.75
IC95	1.98[1.41/2.76]	0.7[0.4/1.11]
% NA	0	0.57
<b>IADL, (cogn.)</b>		
% cut off C	44.19	37.58
% cut off T	36.88	25.84
IC95	0.74[0.52/1.04]	0.29[0.16/0.48]
% NA	0	1
<b>func.</b>		
% cut off C	29.09	31.4
% cut off T	16.36	14.63
IC95	0.48[0.31/0.68]	0.33[0.17/0.59]
% NA	0	0.61
<b>func., cogn.</b>		
% cut off C	35.37	34.39
% cut off T	37.2	38.22
IC95	1.08[0.72/1.71]	0.87[0.41/1.78]
% NA	0	4.27
<b>func., cogn., behav.</b>		
% cut off C	70.31	67.19
% cut off T	60.94	59.38
IC95	0.66[0.31/1.3]	0.93[0.35/3.96]
% NA	0	0

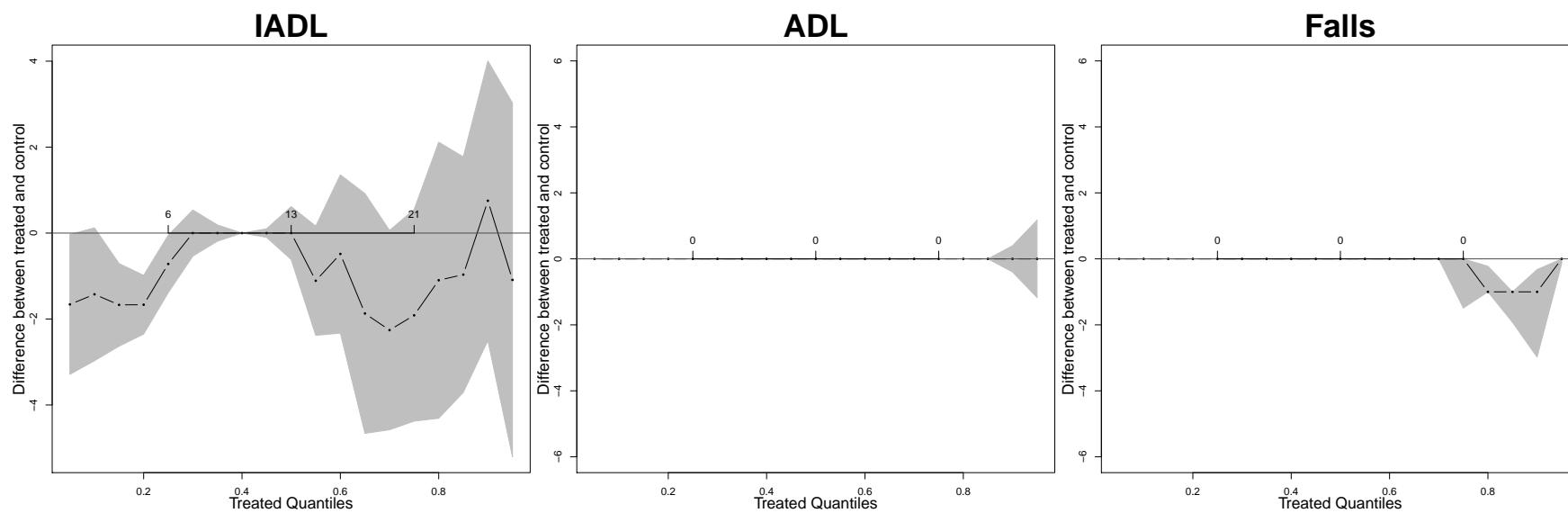


Figure 6.1: Regression quantile of functional clinical outcome (Low limitation)

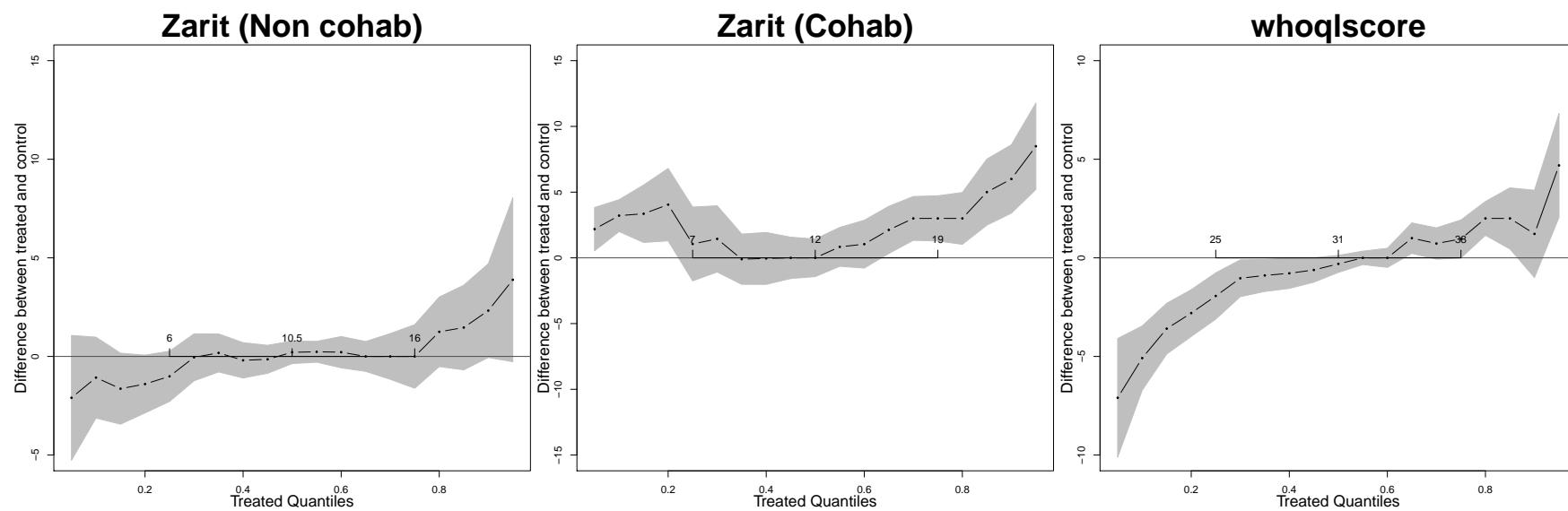


Figure 6.2: Regression quantile of burden and quality of life clinical outcome (Low limitation)

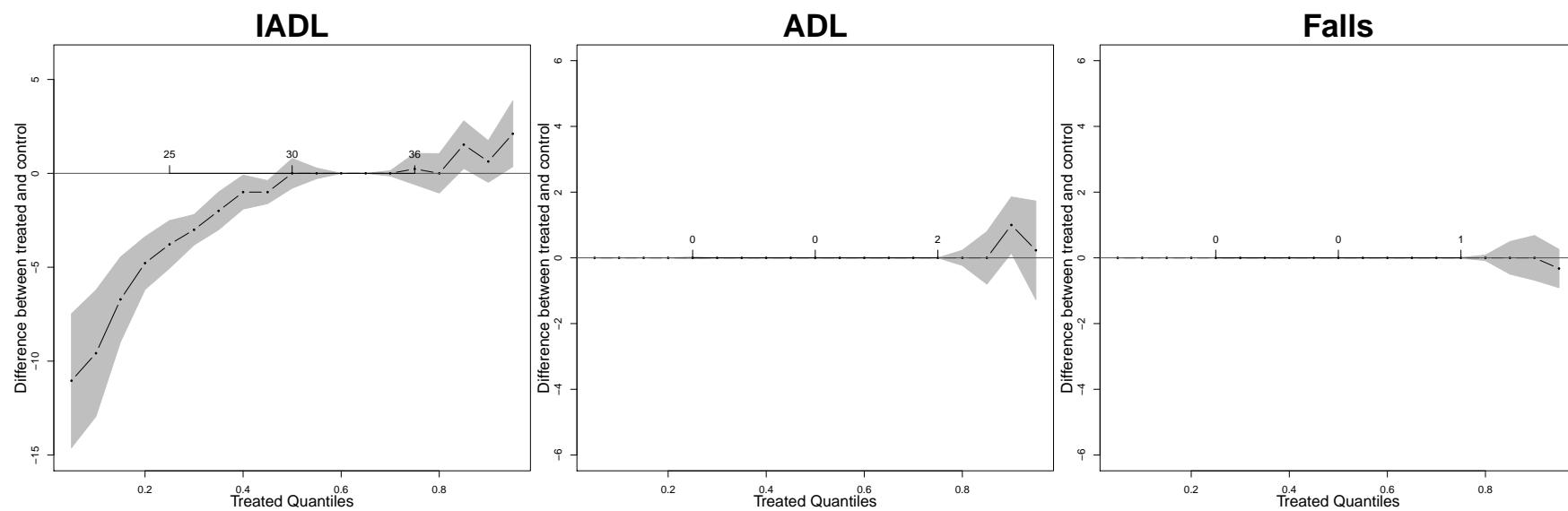


Figure 6.3: Regression quantile of functional clinical outcome (IADL (cogn.)

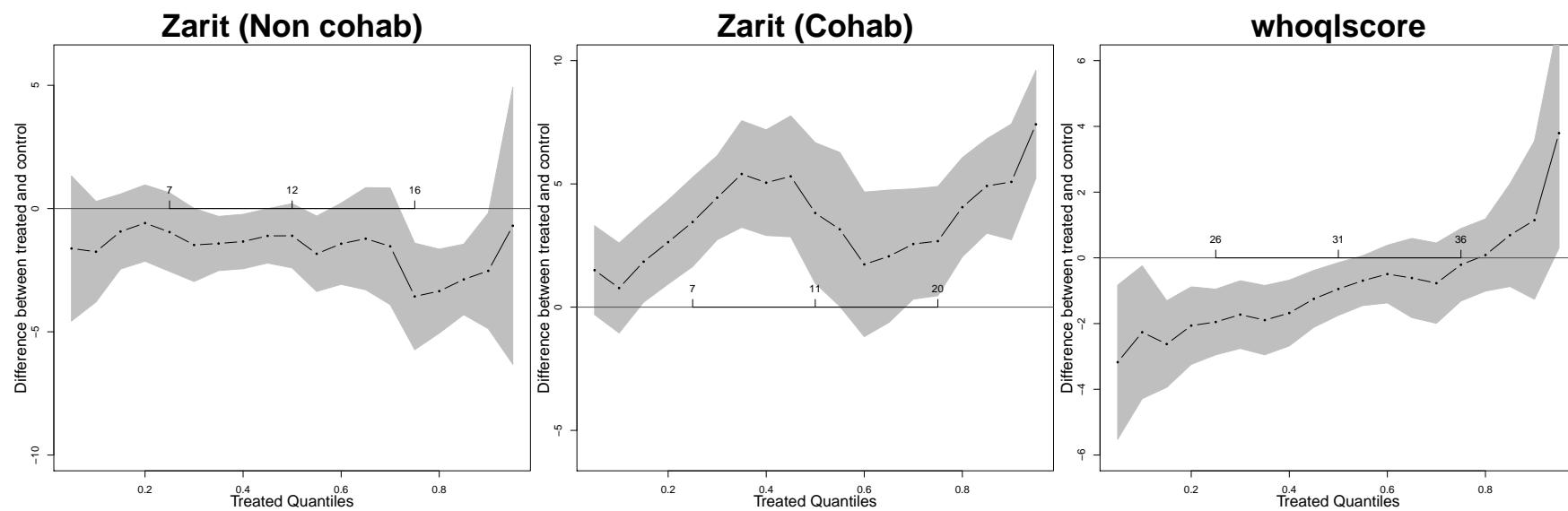


Figure 6.4: Regression quantile of burden and quality of life clinical outcome (IADL (cogn.)

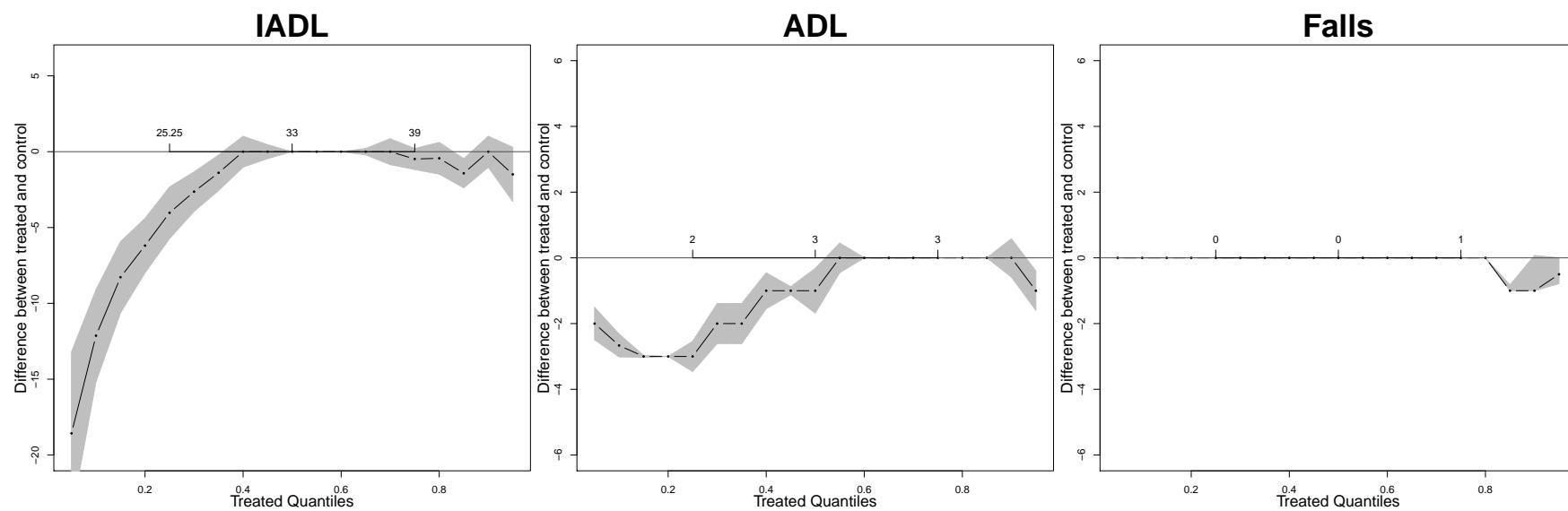


Figure 6.5: Regression quantile of functional clinical outcome (Func.)

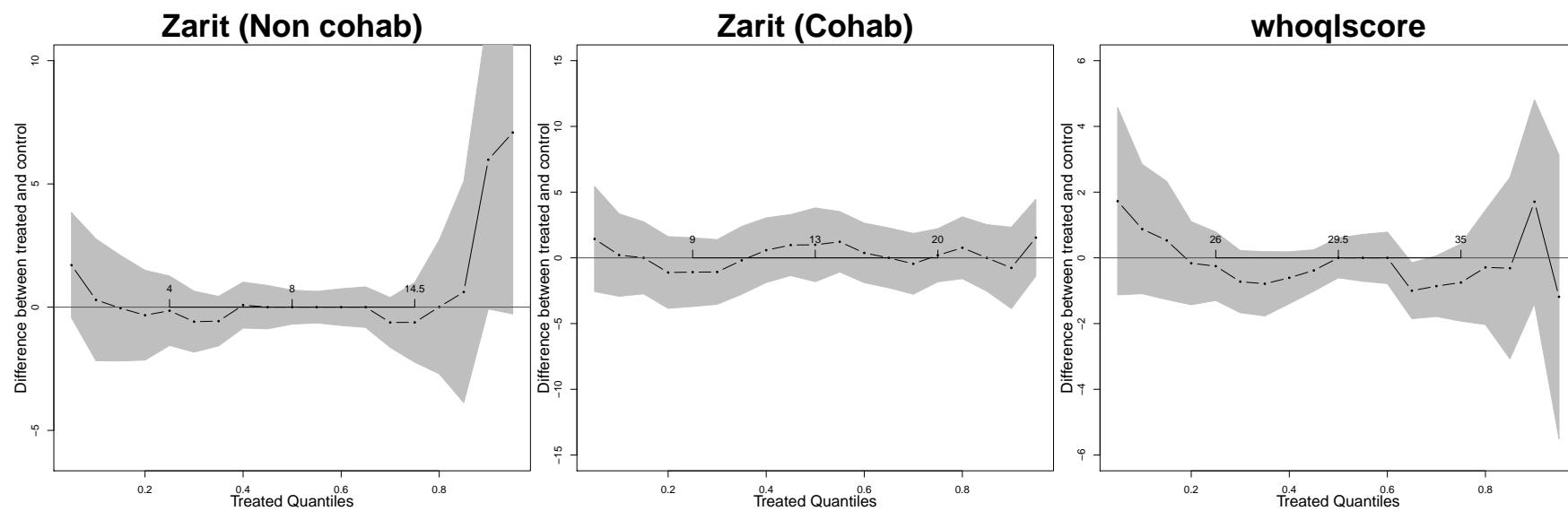


Figure 6.6: Regression quantile of burden and quality of life clinical outcome (Func.)

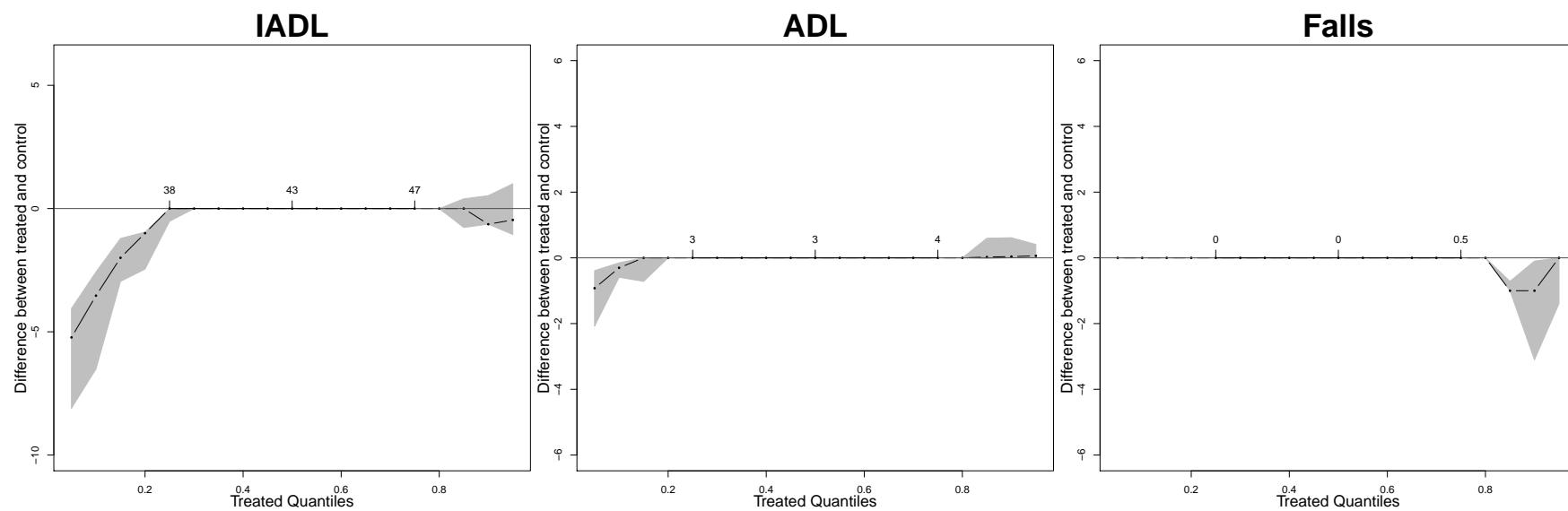


Figure 6.7: Regression quantile of functional clinical outcome (Func., cogn.)

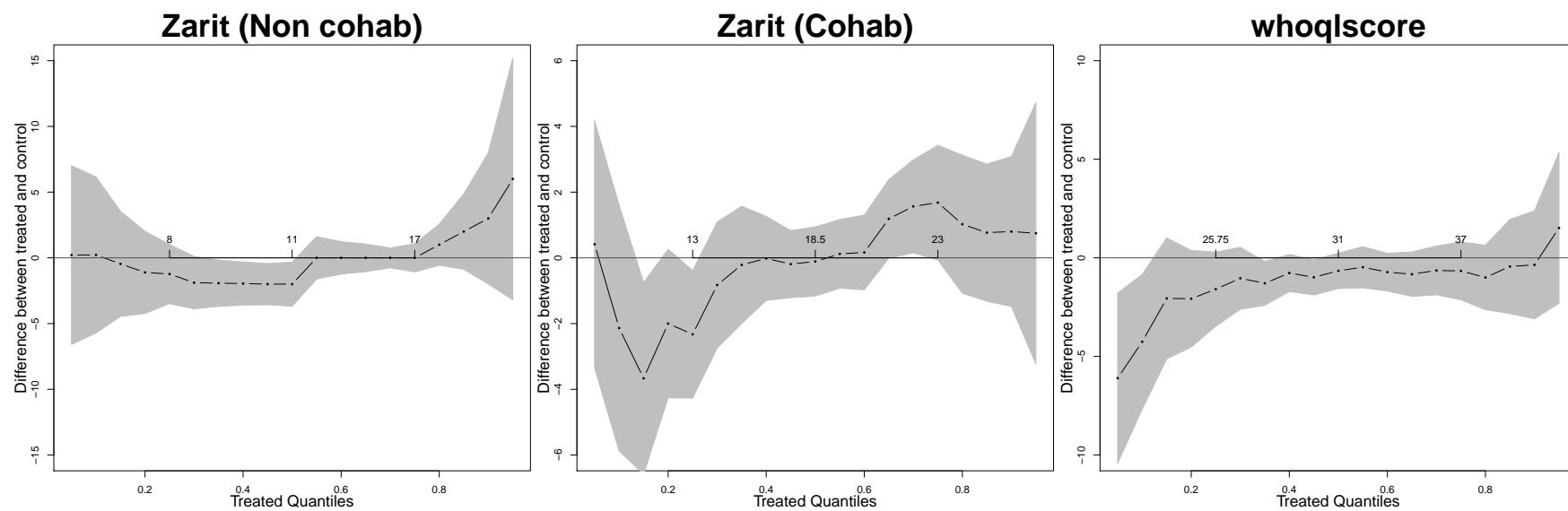


Figure 6.8: Regression quantile of burden and quality of life clinical outcome (Func., cogn.)

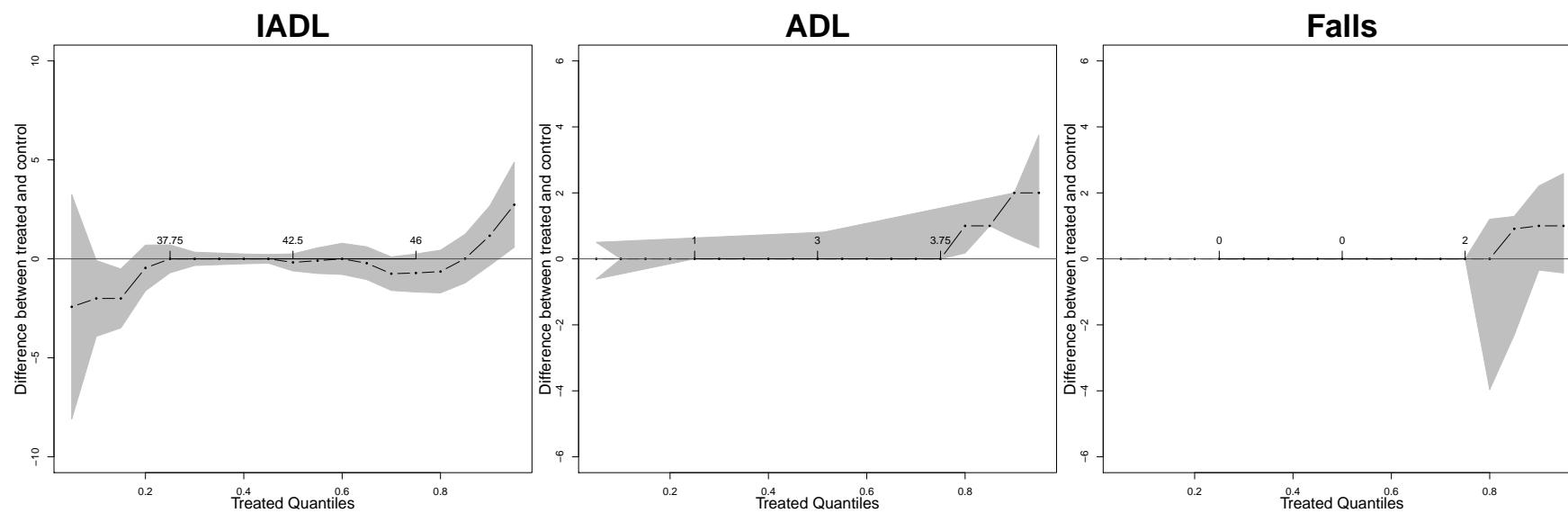


Figure 6.9: Regression quantile of functional clinical outcome (Func., cogn., behav.)

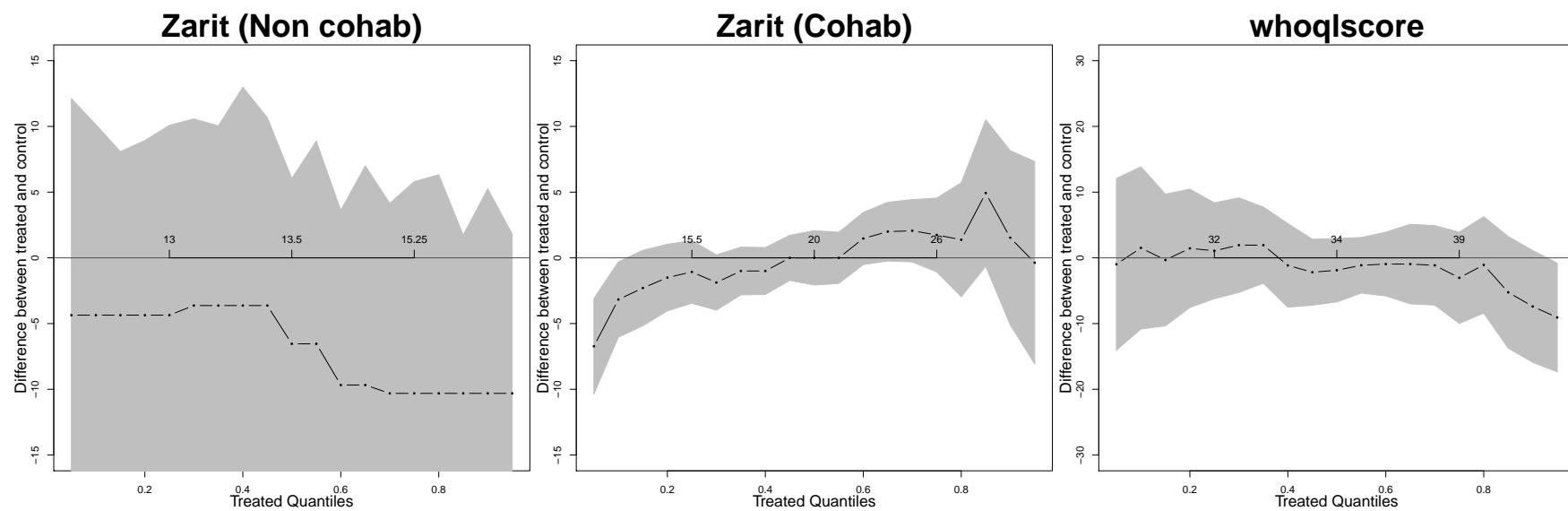


Figure 6.10: Regression quantile of burden and quality of life clinical outcome (Func., cogn., behav.)



## 6.1.4 Utilisation of services

### Appropriate use of services

Table 6.6: IC differnce of mean between treated and control for the dependency IMA outcomes

	Nursing Care N months		Short term institu. N stays		Day care center N days	
	Use	Users	Use	Users	Use	Users
<b>low limit.</b>						
% / Med[IQR] C	85.15	6[6-6]	0	-	0	-
% / Med[IQR] T	36.87	4[2-6]	0.27	2[2-2]	0.27	38[38-38]
OR [IC95]	0.19[0.12/0.29]		-[-/-]		-[-/-]	
<b>IADL, (cogn.)</b>						
% / Med[IQR] C	90.39	6[5-6]	0	-	2.49	109[109-109]
% / Med[IQR] T	54.09	5[3-6]	1.42	2[1-2]	2.85	29[10-40]
OR [IC95]	0.12[0.06/0.19]		-[-/-]		1.02[0.26/3.7]	
<b>func.</b>						
% / Med[IQR] C	96.41	6[6-6]	0	-	1.9	109[109-109]
% / Med[IQR] T	61.81	5[2-6]	2.53	1[1-2]	1.69	41[29-61]
OR [IC95]	0.13[0.07/0.21]		0[0/0]		0.75[0.18/2.21]	
<b>func., cogn.</b>						
% / Med[IQR] C	98.56	6[5-6]	0	-	1.91	81[81-81]
% / Med[IQR] T	77.99	6[3-6]	2.39	1[1-2]	6.22	56[23-85]
OR [IC95]	0.06[0/0.15]		-[-/-]		3.48[0.34/86424458.51]	
<b>func., cogn., behav.</b>						
% / Med[IQR] C	94.19	6[5-6]	0	-	1.16	178[178-178]
% / Med[IQR] T	66.28	5[3-6]	4.65	1[1-2]	13.95	81[16-95]
OR [IC95]	0.11[0.02/0.3]		-[-/-]		9.21[1.79/216226112.35]	

Table 6.7: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated at inclusion)

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or	11.6(6.9)	88.4(52.9)	16.5(5.3)	83.5(26.9)	16.7(0.3)	83.3(1.5)	16.7(0.7)	83.3(3.3)	16.7(3.3)	83.3(16.4)
Incont										
Low lim,										
ADL &	42.9(0.9)	57.1(1.2)	26.7(1.4)	73.3(3.9)	0(0)	100(0.3)	-(0)	-(0)	50(3.3)	50(3.3)
Incont										
ADL lim	40(4.8)	60(7.2)	37.2(10.2)	62.8(17.3)	43.6(15.7)	56.4(20.3)	56.6(20)	43.4(15.3)	60(14.8)	40(9.8)
Incont	11.8(0.6)	88.2(4.5)	26.3(1.8)	73.7(4.9)	50(0.3)	50(0.3)	0(0)	100(3.3)	0(0)	100(6.6)
ADL &										
Incont	50(1.2)	50(1.2)	57.7(5.3)	42.3(3.9)	73(16.6)	27(6.2)	76.1(36)	23.9(11.3)	60.9(23)	39.1(14.8)
lim										
ADL ?										
No Incont	16.1(3)	83.9(15.6)	38.9(7.4)	61.1(11.7)	43.2(16.6)	56.8(21.8)	46.7(4.7)	53.3(5.3)	0(0)	100(4.9)
tot	17.4(17.4)	82.6(82.6)	31.4(31.4)	68.6(68.6)	49.5(49.5)	50.5(50.5)	61.3(61.3)	38.7(38.7)	44.3(44.3)	55.7(55.7)

Table 6.8: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Control at inclusion)

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or	12.8(5.1)	87.2(34.8)	27.5(4.9)	72.5(13.1)	-(0)	-(0)	0(0)	100(3.3)	100(3.3)	0(0)
Incont										
Low lim,										
ADL &	100(5.4)	0(0)	33.3(1.1)	66.7(2.1)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
Incont										
ADL lim	47.4(13.8)	52.6(15.3)	71.8(31.4)	28.2(12.4)	86.2(24.9)	13.8(4)	82.4(9.3)	17.6(2)	74.1(32.8)	25.9(11.5)
Incont	57.1(3.6)	42.9(2.7)	0(0)	100(3.2)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
ADL &										
Incont	100(12.3)	0(0)	86.2(19.8)	13.8(3.2)	88.6(48)	11.4(6.2)	90.9(73.3)	9.1(7.3)	59.4(31.1)	40.6(21.3)
lim										
ADL ?										
No Incont	39.1(2.7)	60.9(4.2)	96(8.5)	4(0.4)	76.4(12.9)	23.6(4)	100(4.7)	0(0)	-(0)	-(0)
tot	42.9(42.9)	57.1(57.1)	65.7(65.7)	34.3(34.3)	85.8(85.8)	14.2(14.2)	87.3(87.3)	12.7(12.7)	67.2(67.2)	32.8(32.8)

Table 6.9: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated second eval)

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or	26.1(15.6)	73.9(44.1)	39.6(12.7)	60.4(19.4)	33.3(0.6)	66.7(1.2)	50(2)	50(2)	8.3(1.6)	91.7(18)
Incont										
Low lim,										
ADL &	57.1(1.2)	42.9(0.9)	53.3(2.8)	46.7(2.5)	0(0)	100(0.3)	- (0)	- (0)	75(4.9)	25(1.6)
Incont										
ADL lim	62.5(7.5)	37.5(4.5)	51.3(14.1)	48.7(13.4)	52.1(18.8)	47.9(17.2)	75.5(26.7)	24.5(8.7)	60(14.8)	40(9.8)
Incont	41.2(2.1)	58.8(3)	52.6(3.5)	47.4(3.2)	50(0.3)	50(0.3)	40(1.3)	60(2)	50(3.3)	50(3.3)
ADL &										
Incont	75(1.8)	25(0.6)	57.7(5.3)	42.3(3.9)	63.5(14.5)	36.5(8.3)	83.1(39.3)	16.9(8)	60.9(23)	39.1(14.8)
lim										
ADL ?										
No Incont	43.5(8.1)	56.5(10.5)	63(12)	37(7.1)	71.2(27.4)	28.8(11.1)	66.7(6.7)	33.3(3.3)	66.7(3.3)	33.3(1.6)
tot	36.3(36.3)	63.7(63.7)	50.5(50.5)	49.5(49.5)	61.5(61.5)	38.5(38.5)	76(76)	24(24)	50.8(50.8)	49.2(49.2)

Table 6.10: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Control second eval)

	low limit.		IADL, (cogn.)		func.		func., cogn.		func., cogn., behav.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or	21.8(8.7)	78.2(31.2)	70.6(12.7)	29.4(5.3)	-(0)	-(0)	100(3.3)	0(0)	100(3.3)	0(0)
Incont										
Low lim,										
ADL &	100(5.4)	0(0)	100(3.2)	0(0)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
Incont										
ADL lim	100(29.1)	0(0)	98.4(43.1)	1.6(0.7)	100(28.9)	0(0)	100(11.3)	0(0)	100(44.3)	0(0)
Incont	100(6.3)	0(0)	100(3.2)	0(0)	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)
ADL &										
Incont	100(12.3)	0(0)	100(23)	0(0)	99.4(53.8)	0.6(0.3)	99.2(80)	0.8(0.7)	78.1(41)	21.9(11.5)
lim										
ADL ?										
No Incont	100(6.9)	0(0)	100(8.8)	0(0)	100(16.9)	0(0)	100(4.7)	0(0)	-(0)	-(0)
tot	68.8(68.8)	31.2(31.2)	94(94)	6(6)	99.7(99.7)	0.3(0.3)	99.3(99.3)	0.7(0.7)	88.5(88.5)	11.5(11.5)

## Inappropriate use of services

Table 6.11: IC difference of mean between treated and control for the low value IMA outcomes

	Emergency		GP out-of hours		Hospitalisation	
	N visits		N visits		N visits	
	Use	Users	Use	Users	Use	Users
<b>low limit.</b>						
% / Med[IQR] C	27.32	2[2-2]	3.18	10[8-10]	30.77	1[1-1]
% / Med[IQR] T	16.71	2[1-2]	9.28	1[1-2]	25.99	1[1-2]
OR [IC95]	0.48[0.32/0.69]		3.31[1.8/7.26]		0.78[0.54/1.07]	
<b>IADL, (cogn.)</b>						
% / Med[IQR] C	25.62	2[2-4]	9.61	2[2-2]	19.93	1[1-2]
% / Med[IQR] T	23.49	2[1-2]	10.68	1[1-2]	24.91	1[1-2]
OR [IC95]	0.89[0.6/1.33]		1.3[0.73/2.5]		1.28[0.85/1.89]	
<b>func.</b>						
% / Med[IQR] C	20.89	2[2-2]	13.08	2[2-2]	24.26	1[1-1]
% / Med[IQR] T	27	1[1-2]	12.66	1[1-2]	42.83	1[1-2]
OR [IC95]	1.35[0.97/1.93]		0.99[0.66/1.52]		2.72[2.02/3.82]	
<b>func., cogn.</b>						
% / Med[IQR] C	20.57	2[2-2]	12.92	2[2-4]	22.97	1[1-2]
% / Med[IQR] T	29.19	1[1-2]	14.35	1[1-2]	34.45	1[1-1]
OR [IC95]	1.27[0.81/2.08]		0.84[0.43/1.63]		1.79[1.16/2.9]	
<b>func., cogn., behav.</b>						
% / Med[IQR] C	37.21	2[2-4]	13.95	2[2-2]	32.56	1[1-1]
% / Med[IQR] T	27.91	2[1-3]	17.44	2[1-2]	38.37	1[1-2]
OR [IC95]	0.65[0.32/1.21]		1.3[0.53/3.54]		1.25[0.66/2.42]	

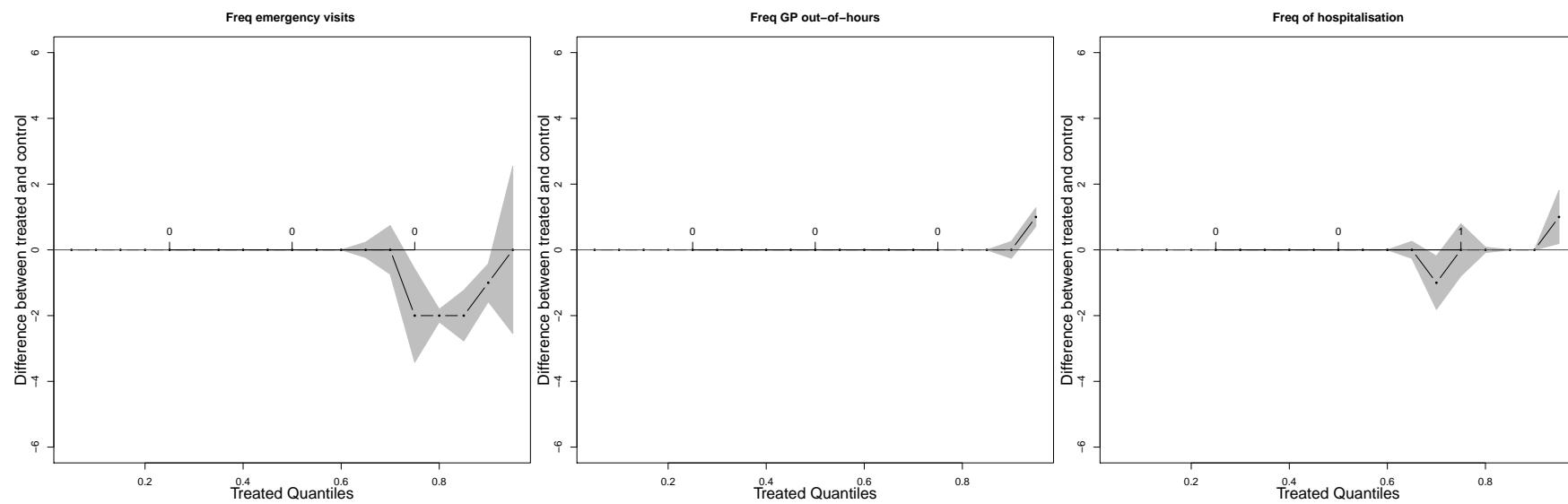


Figure 6.11: Regression quantile of inappropriate use of services (Low limitation)

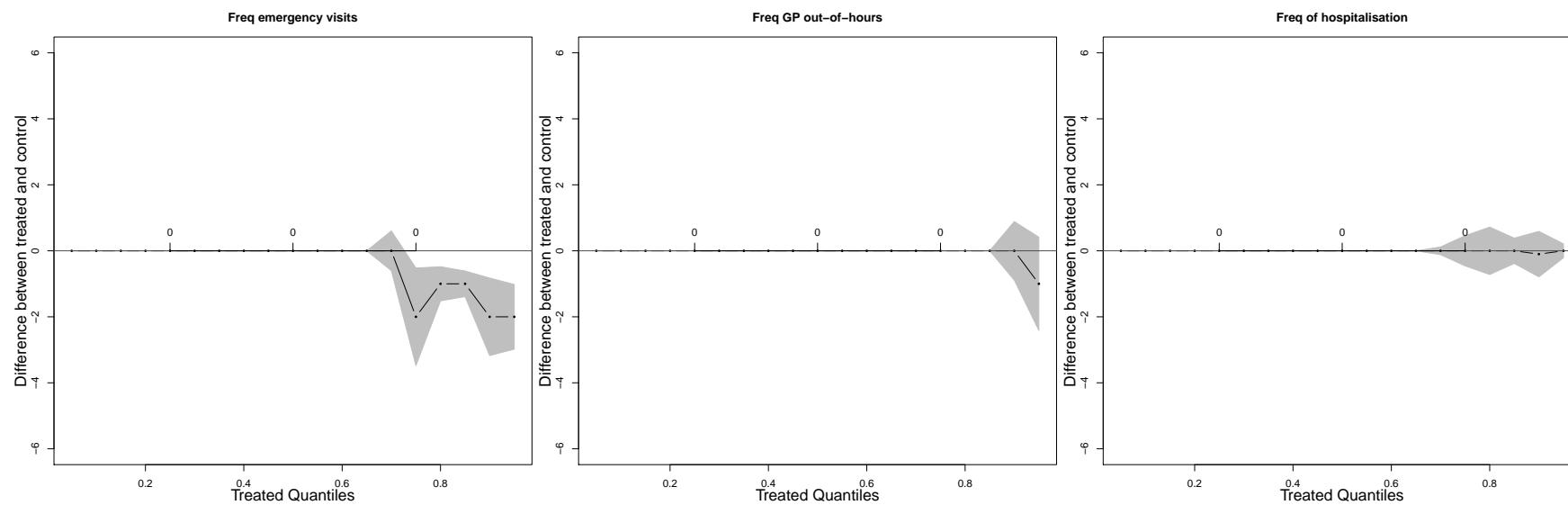


Figure 6.12: Regression quantile of inappropriate use of services (IADL (cogn.))

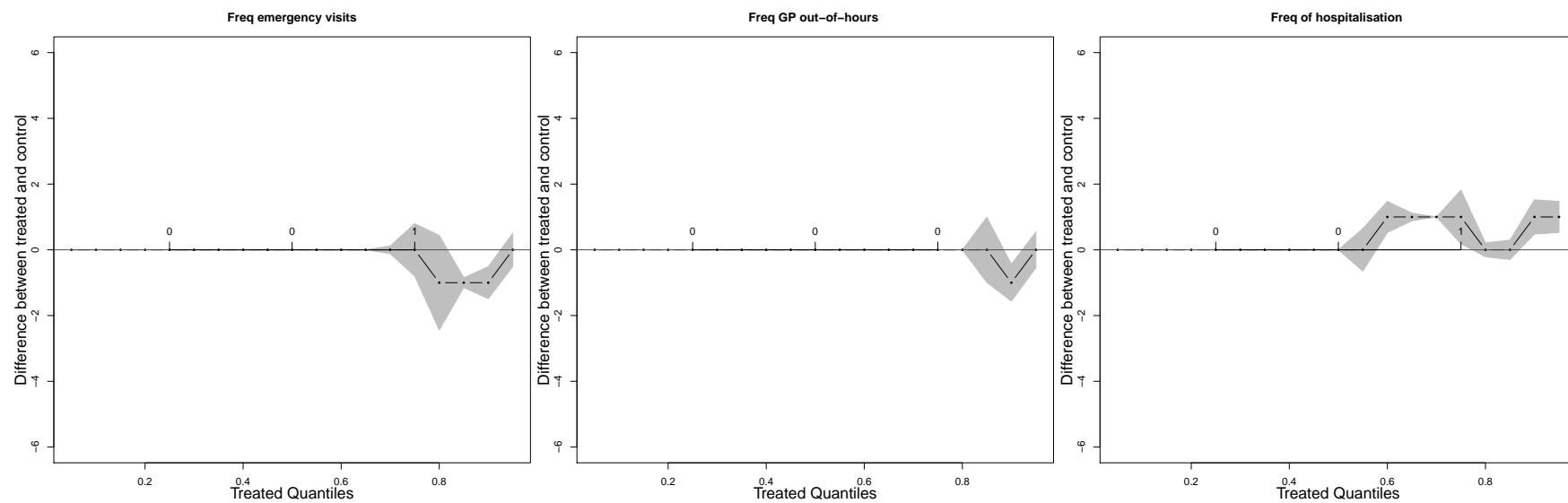


Figure 6.13: Regression quantile of inappropriate use of services (Func.)

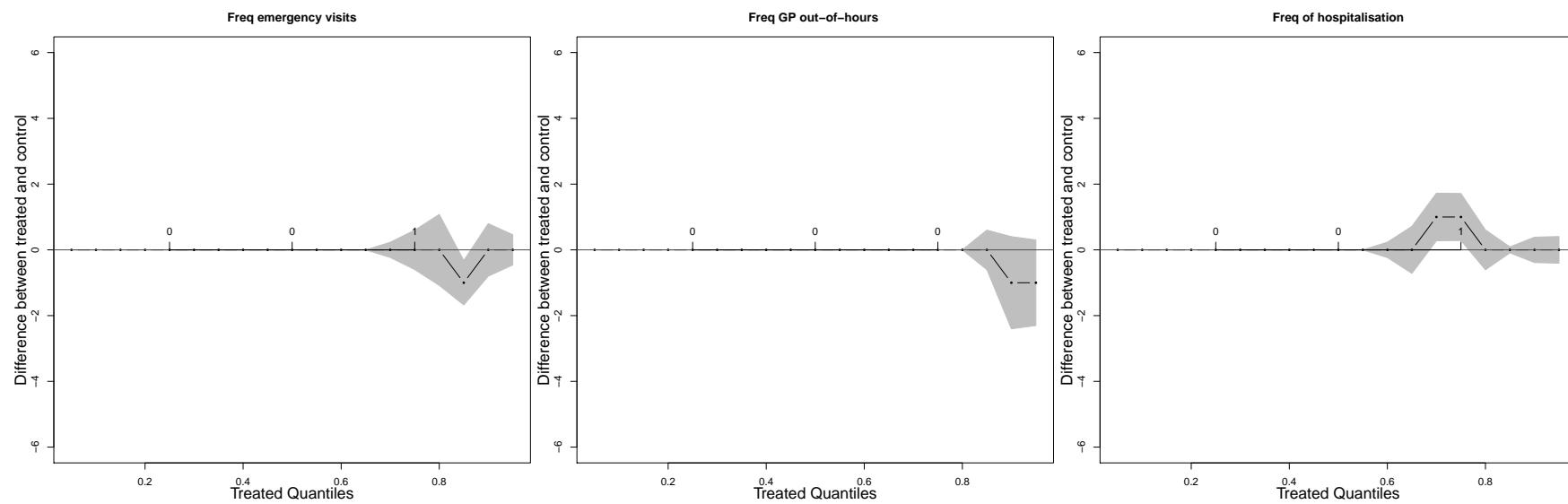


Figure 6.14: Regression quantile of inappropriate use of services (Func., cogn.)

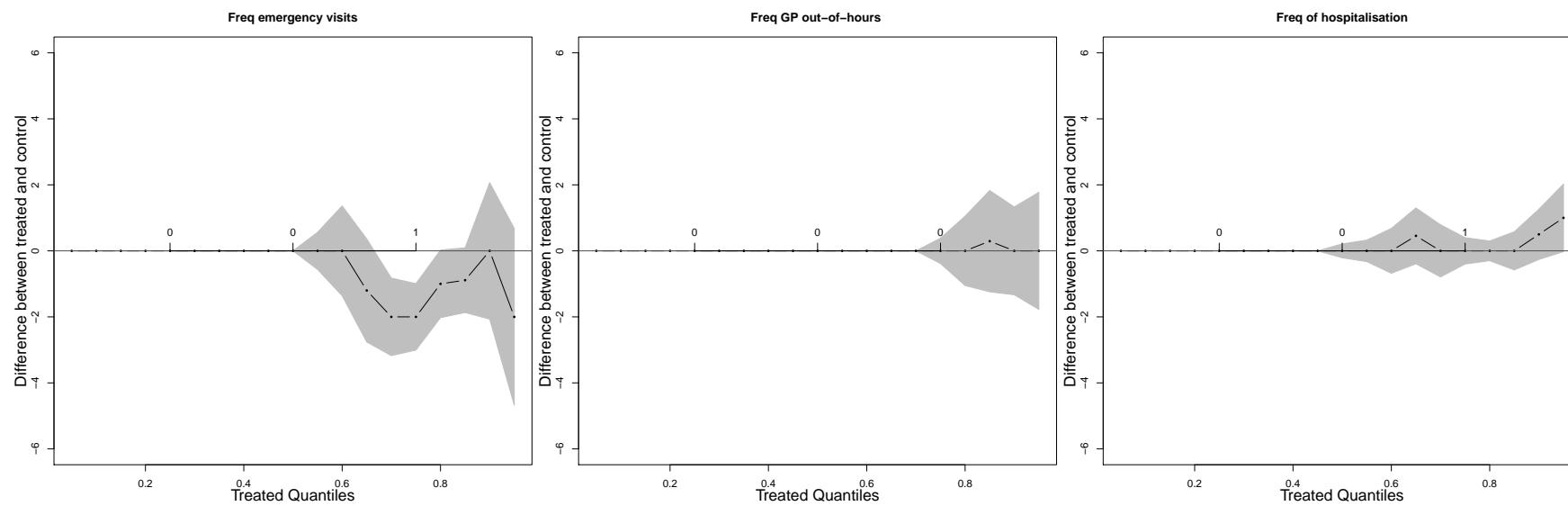


Figure 6.15: Regression quantile of inappropriate use of services (Func., cogn., behav.)

## Definitive institutionalisation and death

Table 6.12: IC of ratio of incidence rate between treated and control for the death and the definitive institutionalisation

	Definitive institu.	Death
<b>low</b>		
<b>limit.</b>		
IR T	0.0041	0.0059
IR C	0.0031	0
IC95	0.49/3.51	NaN/Inf
<b>IADL,</b>		
<b>(cogn.)</b>		
IR T	0.0112	0.0048
IR C	0.0138	0.0123
IC95	0.43/1.53	0.17/0.89
<b>func.</b>		
IR T	0.0211	0.0173
IR C	0.004	0.0032
IC95	2.77/10.17	2.64/11.04
<b>func.,</b>		
<b>cogn.</b>		
IR T	0.0275	0.0252
IR C	0.014	0.0134
IC95	1.06/3.6	1.02/3.46
<b>func.,</b>		
<b>cogn.,</b>		
<b>behav.</b>		
IR T	0.0311	0.0222
IR C	0.0255	0.0164
IC95	0.56/2.63	0.55/3.37



### 6.1.5 Health care costs linked to disability for the NIHDI

Table 6.13: Average costs of health care services and technical equipment (per month, per patient)

	Interv.		Nurs.		Phys.		Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>														
Mean T	0	212.9	42.4	79.1	21.2	39.9	2.2	4.1	2.1	3.9	2.3	3.6		
Mean C	0	0	255.4	593.6	29.6	74	4.8	2.1	15.1	4.7	4.7	1.4		
IC95	0/0	206/220	-250/-179	-590/-447	-18/0	-55/-16	-6/2	-1/5	-17/-9	-5/3	-6/2	-2/6		
<b>IADL (cogn.)</b>														
Mean T	0	202.2	95.7	184.4	22.2	37.4	1.9	2.1	1.6	4.8	3.6	8.3		
Mean C	0	0	362.6	862	66.9	152.8	3.4	22.4	30.1	7.6	0	0.1		
IC95	0/0	193/211	-320/-215	-794/-573	-59/-32	-147/-85	-4/1	-31/-11	-36/-21	-8/2	0/8	2/16		
<b>Func.</b>														
Mean T	0	141.1	218.2	308.6	48.9	68.5	5.8	11.3	7.4	13.1	2.5	2.6		
Mean C	0	0	784.3	1279.6	119	184.9	7	28.4	55.1	30.8	5.1	14.5		
IC95	0/0	136/147	-632/-501	-1059/-886	-85/-54	-141/-94	-7/4	-46/4	-55/-40	-26/-11	-8/2	-20/-5		
<b>Func. cogn.</b>														
Mean T	0	165	464	799.5	68.6	118.7	19.3	39.1	19.8	31.6	3.2	2.3		
Mean C	0	0	929.4	1783.4	106	172.4	1.2	11.4	66.1	34.4	3.2	8.5		
IC95	0/0	155/176	-584/-338	-1154/-809	-64/-10	-97/-8	6/35	-4/74	-58/-34	-19/18	-5/5	-16/1		
<b>Func. cogn. behav</b>														
Mean T	0	164	263.3	556.7	37.6	73.9	9.8	12	11.9	18	2.6	0		
Mean C	0	0	863.9	1550.8	85.2	196.8	3.2	14.5	59.4	15.8	0	2.8		
IC95	0/0	147/182	-858/-383	-1322/-701	-80/-12	-188/-59	-1/18	-25/16	-66/-30	-12/15	0/8	-5/-1		

Table 6.14: Average costs of other health care services for six months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>												
Mean T	0	0.8	6	8.5	10.4	21.9	25.9	3	3	885	811.5	
Mean C	0	0	10.6	3.3	19.2	52.3	74	1.5	1.5	295.6	531.5	
IC95	0/0	0/2	-13.8/4	-0.6/12	-27.9/7	-37.8/-24	-56.9/-39	0.4/3	0.4/3	415.7/801	72.9/507	
<b>IADL (cogn.)</b>												
Mean T	2.4	9.3	7.4	22.7	40.7	25.9	33.1	5.2	6	955.2	750.6	
Mean C	0	20.8	7.2	15	81.6	47.2	74.7	2.1	4.4	433.9	547.6	
IC95	0/6	-30/6	-7.8/9	-8.6/26	-80.9/-3	-27.7/-15	-49.7/-34	1.4/5	-0.5/4	251.8/802	-7.5/434	
<b>Func.</b>												
Mean T	2.8	6.3	16.1	46.9	105.1	33	38	1.1	1.1	2054.3	1949.2	
Mean C	0	16.4	7.9	7	23.6	51.5	84.3	2	4.7	218.2	700	
IC95	0.2/7	-22.9/2	0.5/17	26.2/56	47.2/115	-23.8/-13	-53.7/-38	-1.6/0	-4.8/-2	1596.9/2099	916.4/1588	
<b>Func. cogn.</b>												
Mean T	21.2	28.2	34	46.9	107.3	29.2	46.2	3.3	3	1475.9	1740.6	
Mean C	15.6	12.3	7	18.9	57.1	54.7	97.2	4.9	5.1	638.3	773.7	
IC95	-11.8/23	-2.2/35	10.2/48	5.8/51	-4.3/104	-34.3/-18	-65.4/-36	-3.5/0	-4.2/0	468.2/1187	374.1/1661	
<b>Func. cogn. behav</b>												
Mean T	33.2	80.4	18.3	57.9	134.6	18.5	34.9	5.3	4.7	697.9	1492.6	
Mean C	8.9	16.6	17.6	80	29.4	35.4	87.7	4.3	6.9	469.1	1051.5	
IC95	-8/56	4.7/127	-24.1/23	-80.1/23	32.1/184	-28.3/-7	-104.4/-19	-2.1/4	-6.6/2	-71.6/582	-447.8/1254	

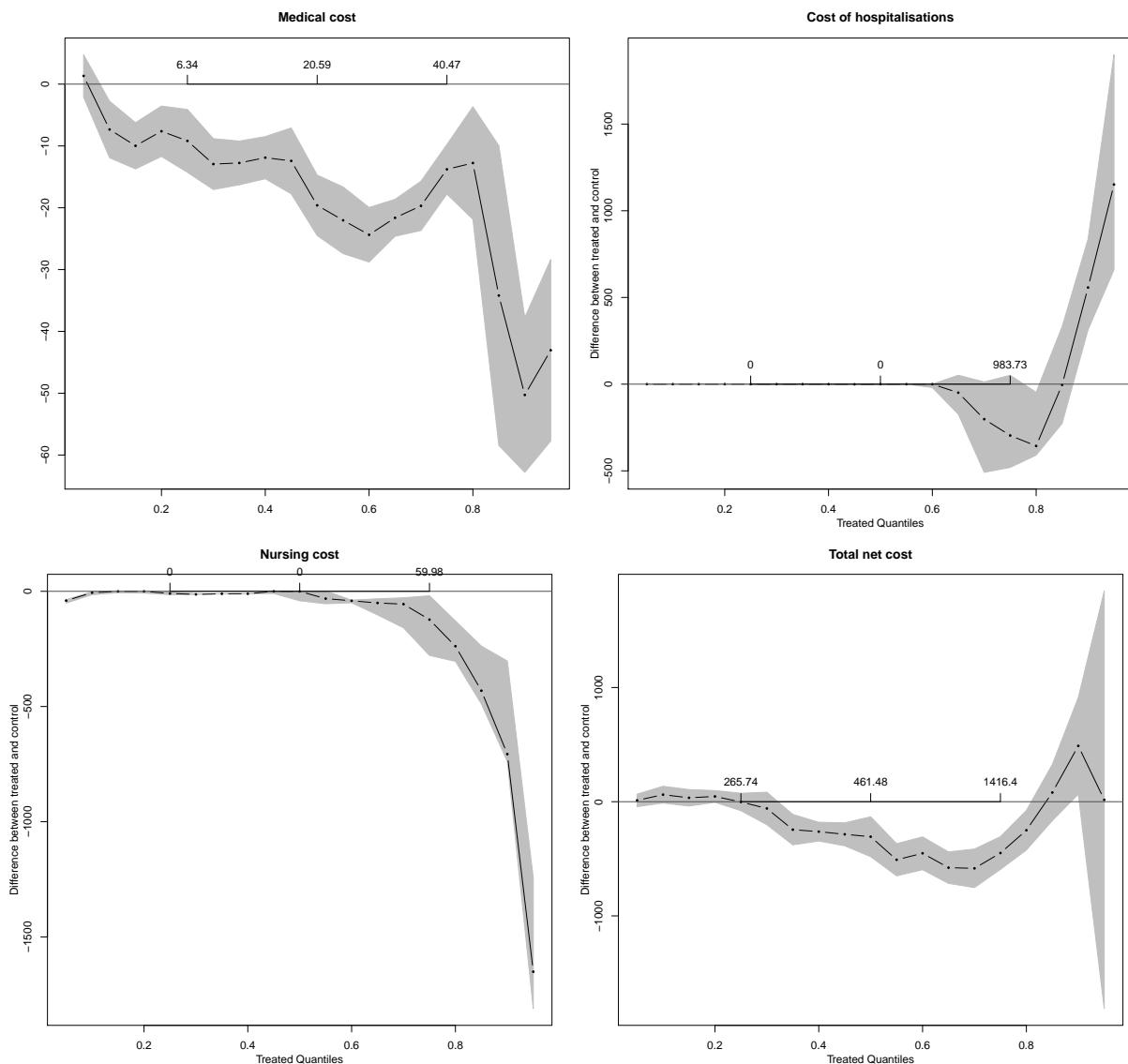


Figure 6.16: Graphs of the differences of costs between treated and control, **for the NIHDI, for the group of low limitations**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

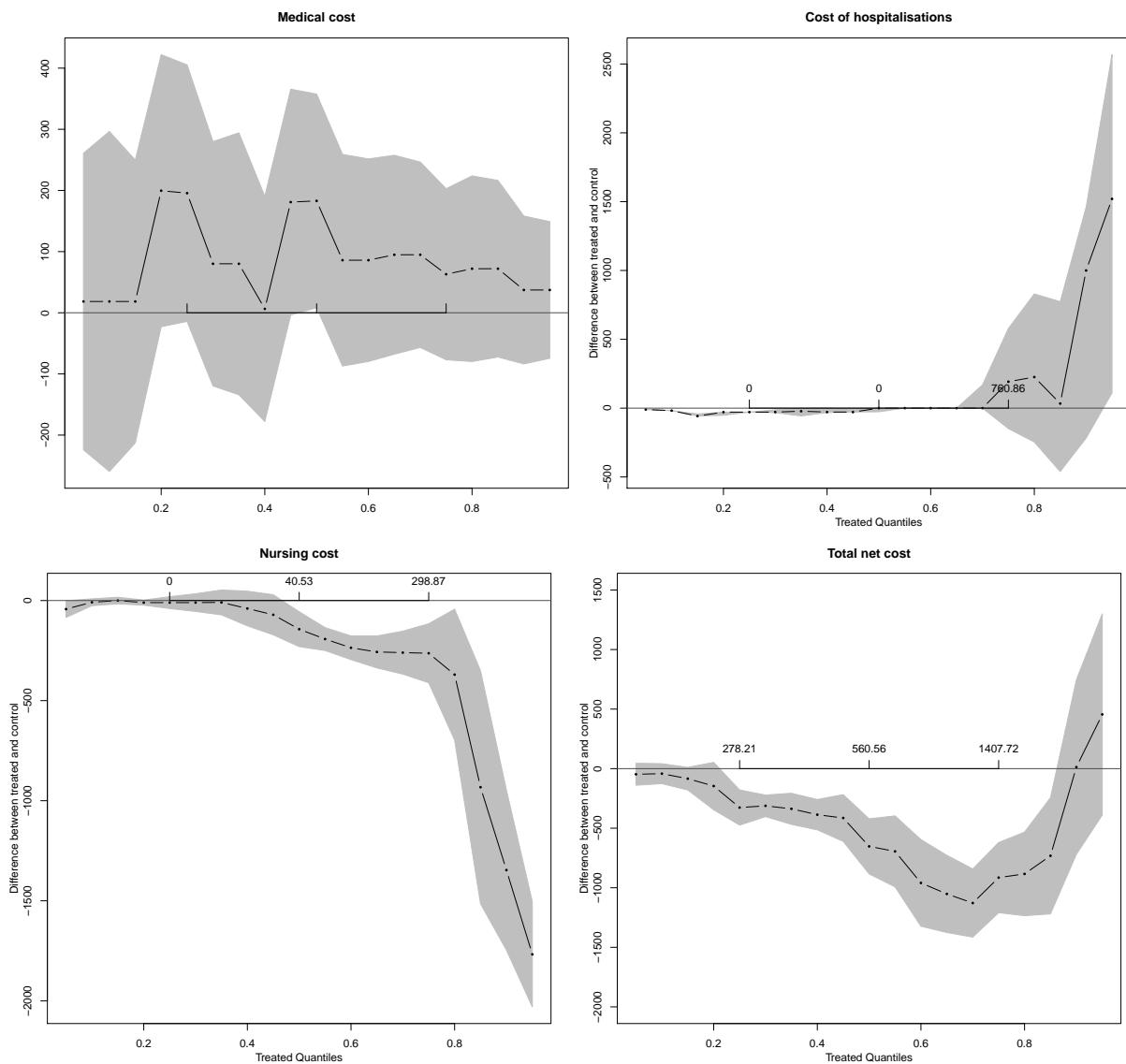


Figure 6.17: Graphs of the differences of costs between treated and control, **for the NIHDI, for the group of IADL limitations (cognitive impairment)**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

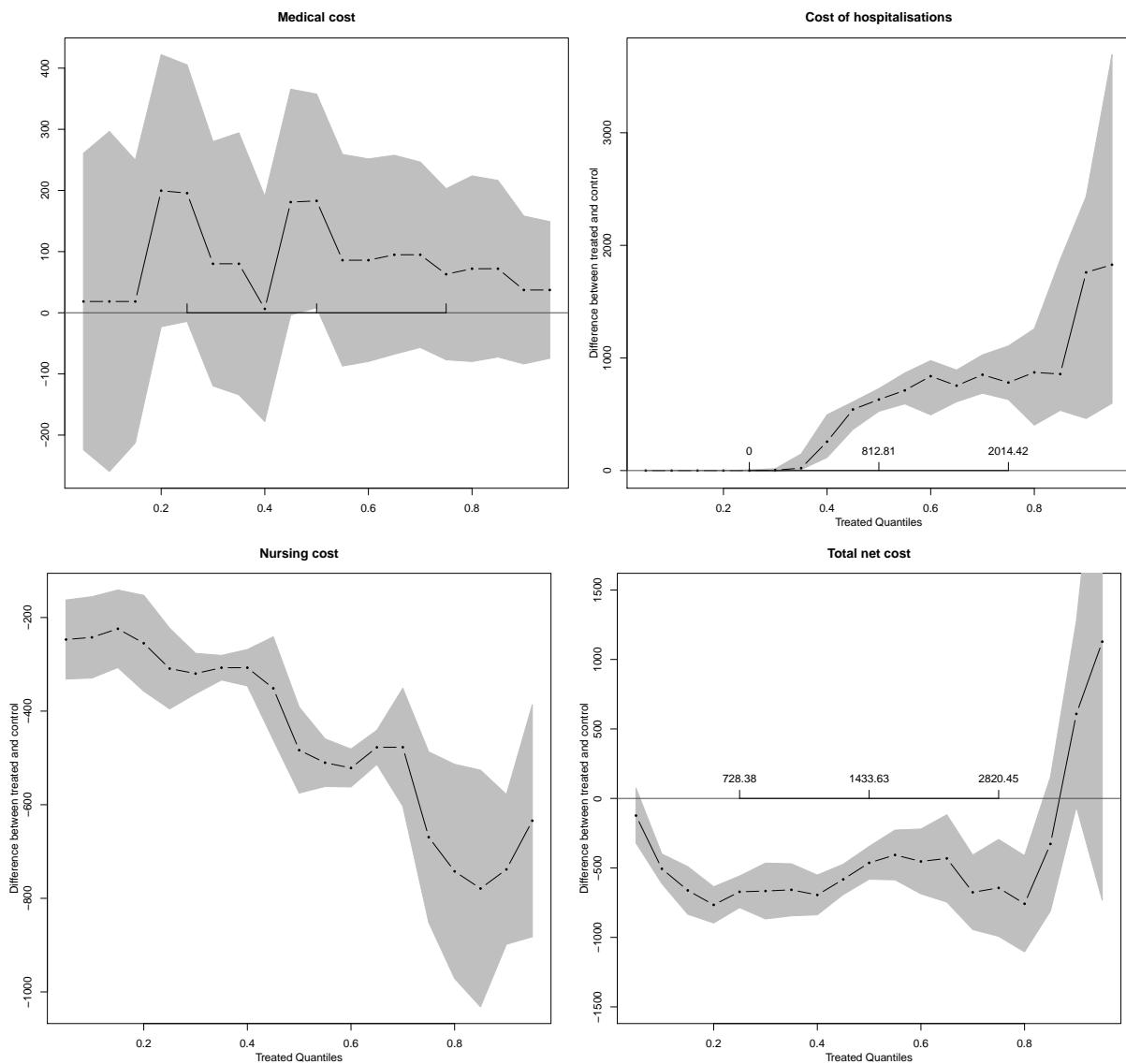


Figure 6.18: Graphs of the differences of costs between treated and control, **for the NIHDI, for the group of functional limitations**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

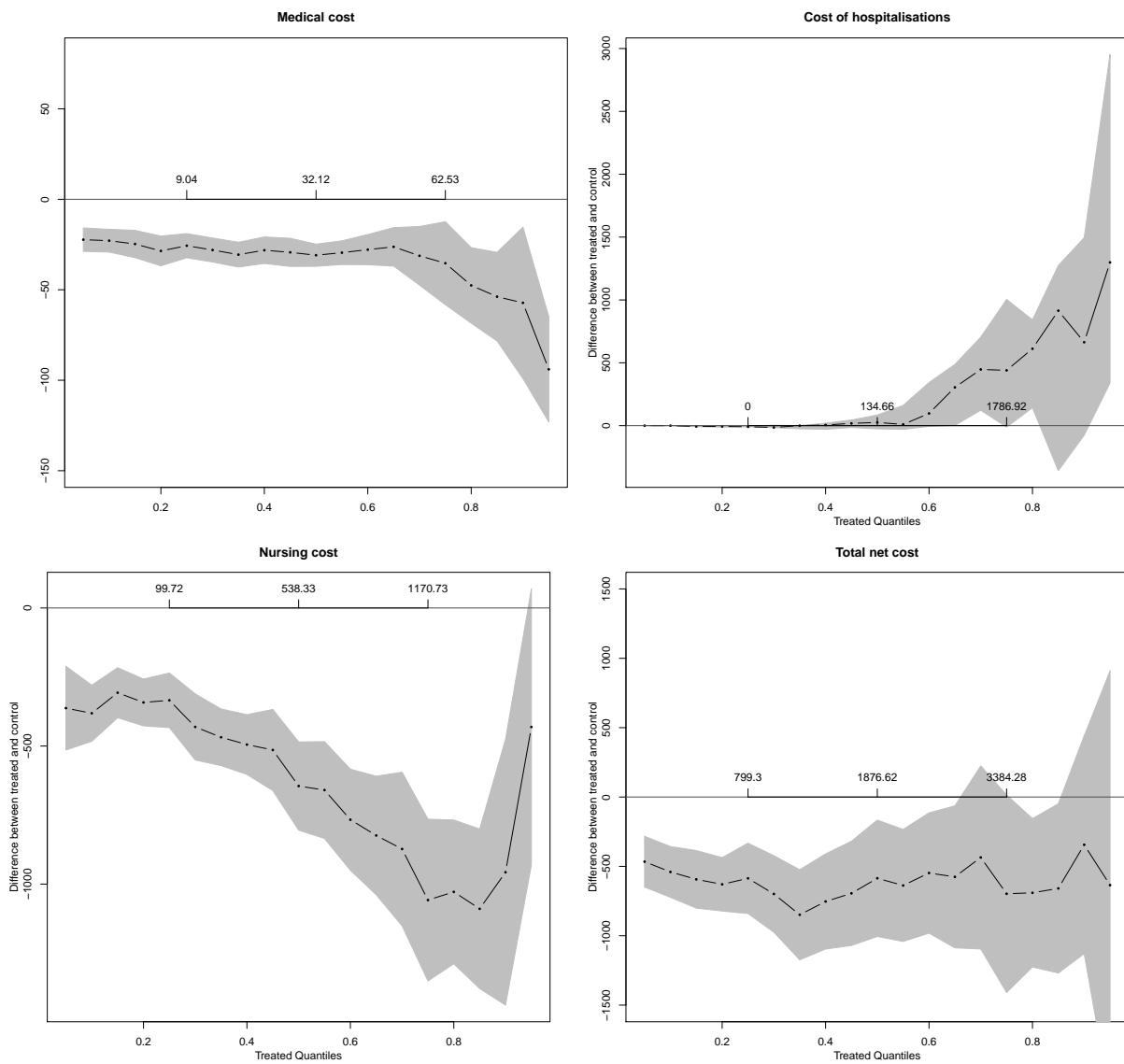


Figure 6.19: Graphs of the differences of costs between treated and control, **for the NIHDI, for the group of functional limitations and cognitive impairment**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

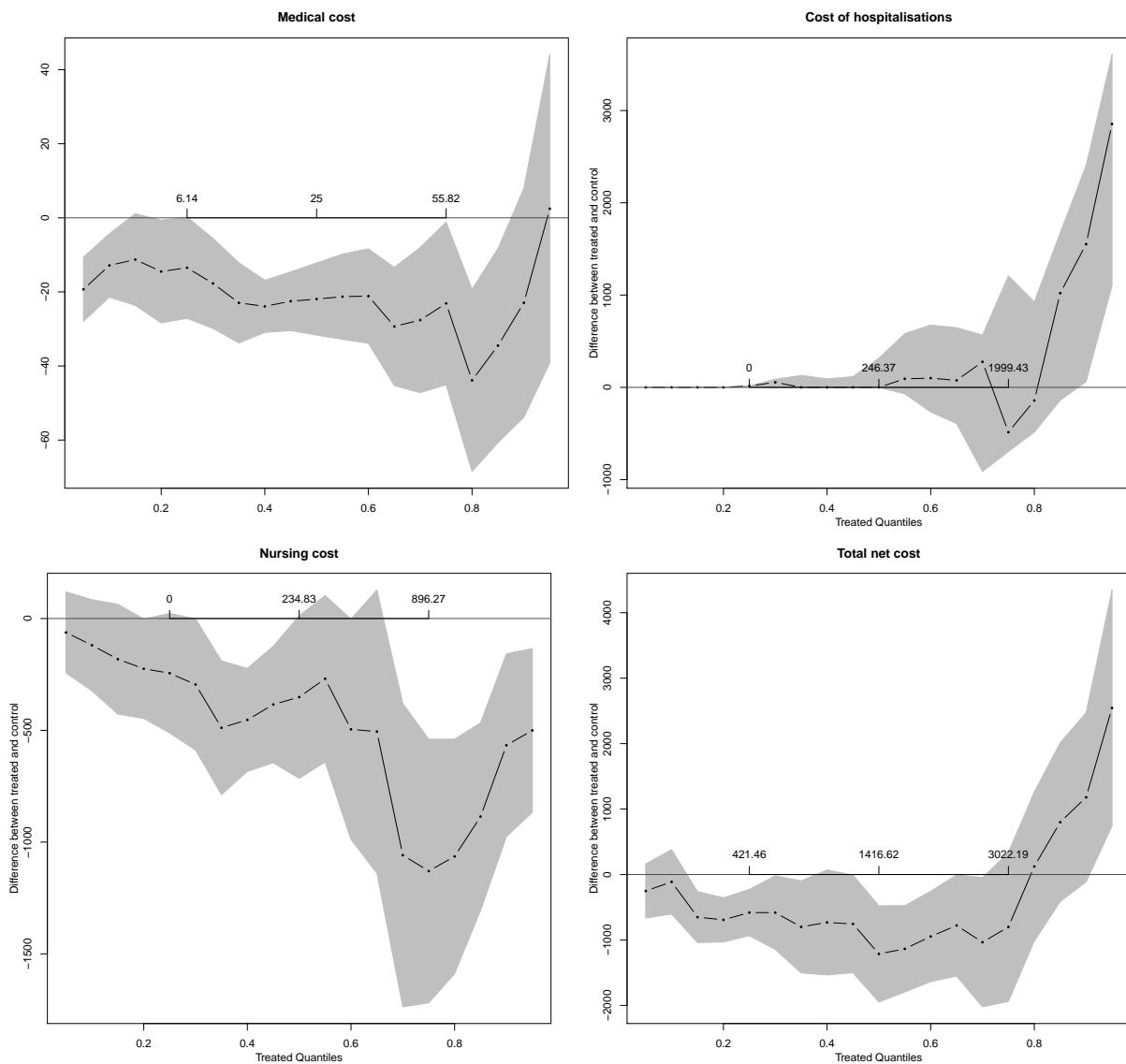


Figure 6.20: Graphs of the differences of costs between treated and control, **for the NIHDI, for the group of functional limitations, cognitive impairment and behavioural problems**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)



### 6.1.6 Health care costs linked to disability for the patients

Table 6.15: Average costs of health care services and technical equipment for six months (per month, per patient)

	Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>										
Mean T	0.1	0.7	5.7	8.8	0	0.1	0	0	0.7	2.3
Mean C	2.9	2.8	8.5	11.9	0	0	0	0	8.2	2.3
IC95	-4.5/-1.4	-3.9/-0.4	-5.7/-0.2	-6.1/-0.2	0/0	0/0.4	0/0.1	-0.1/0.1	-13.7/-2	-5.8/5.1
<b>IADL (cogn.)</b>										
Mean T	0.2	2	5.2	10.8	0	0	0	0	3.8	7.2
Mean C	5.9	13.4	15	27.2	0	0	0	0	0	0.1
IC95	-8.3/-3.3	-16.9/-6	-13.7/-6	-22.2/-10.6	0/0	-0.1/0	0/0.1	0/0	0/14.3	0.3/17.8
<b>Func.</b>										
Mean T	0	0.6	11.4	16.5	0	0.1	0	0	0.4	2.1
Mean C	3.4	5.6	17.4	31.8	0	0	0	0	0.9	4.7
IC95	-5/-1.9	-8.3/-2.3	-9/-3.2	-20/-10.6	0/0.1	0/0.2	0/0	0/0	-2.4/0.6	-7.1/2.7
<b>Func. cogn.</b>										
Mean T	1.5	1.7	13.4	19.2	0.1	0.2	0	0	3.2	0.8
Mean C	3.3	9.8	18.4	32.8	0	0	0	0.1	3	3.5
IC95	-5/1	-14.5/-2.4	-10.8/0.3	-24.1/-4.2	0/0.3	0/0.5	0/0	-0.1/0.1	-5.2/6.1	-6.9/0.8
<b>Func. cogn. behav</b>										
Mean T	0.6	1.1	9.4	13.9	0	0	0	0	0	0
Mean C	5.7	18.8	10.2	26	0.1	0	0	0	0	0
IC95	-10.5/-0.8	-27.3/-8.6	-6.7/6.2	-20.3/-3.6	-0.3/0	0/0	0/0	0/0	0/0	0/0

Table 6.16: Average cost of other health care services for six months (per month, per patient)

	<b>Daycare</b>		<b>Temp. NH</b>		<b>Def. NH</b>		<b>GP</b>		<b>Spec.</b>		<b>Hosp.</b>	
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Bef	Aft	Bef	Aft	
<b>Low limit.</b>												
Mean T	0	0.3	5.5	12.9	11	3.8	4	0.8	0.7	55.5	47.1	
Mean C	0	0	8.5	3.8	19.7	8.1	9.3	0.3	0.4	23.5	18.1	
IC95	0/0	0/0.8	-10.1/4.8	-0.6/21.3	-27.6/8.2	-5.7/-3	-6.7/-4	0.2/0.9	0/0.6	16/47.9	17.3/41.5	
<b>IADL</b>												
(cogn.)												
Mean T	0.7	2.9	7.8	23.6	45.9	3.9	5	1.2	1.1	42.1	36.2	
Mean C	0	6.6	6.6	14.1	76.3	6.7	10.8	0.4	1	19.4	36.4	
IC95	0/1.9	-9.4/2	-6.4/9.6	-5.5/27.2	-71.1/11.5	-4/-1.8	-7.3/-4.3	0.4/1.1	-0.4/0.6	8.3/39.1	-22.1/20.2	
<b>Func.</b>												
Mean T												
Mean T	1	2	14	39.7	93.1	6.1	6.8	0.3	0.4	120.5	118.3	
Mean C	0	5.2	7.2	10	20.7	6.6	9.6	0.2	0.7	12.9	52.7	
IC95	0/2.5	-7.1/0.4	0.2/13.7	18.5/41.9	41.3/103.3	-1.8/0.6	-4.4/-1.1	0/0.2	-0.6/-0.1	86.7/133.4	35.2/94.2	
<b>Func.</b>												
cogn.												
Mean T	6.7	8.7	28.9	49.9	102.4	4.9	5.9	0.9	0.6	76.3	68.1	
Mean C	5	3.9	4.6	19.4	46.7	8	11	0.9	1.1	25.4	34.1	
IC95	-3.4/7.5	-0.3/10.9	10.2/39.5	4.8/55	4/107.2	-5.6/-1	-7.6/-2.6	-0.4/0.5	-1.1/0.1	18.6/100.5	9.8/60.4	
<b>Func. cogn.</b>												
behav												
Mean T	10.4	24.8	17.4	57.7	111.8	4.3	5.6	1.6	1	22.1	63.1	
Mean C	2.8	5.2	13.7	73.1	25.6	3.4	7.9	0.8	1	32.7	49.9	
IC95	-1.3/18.2	-1.6/40.1	-15.6/25.4	-63.4/36.7	30/150	-0.9/2.6	-4.8/0.7	-0.1/1.7	-0.9/0.9	-25.5/4.1	-23.9/49.6	

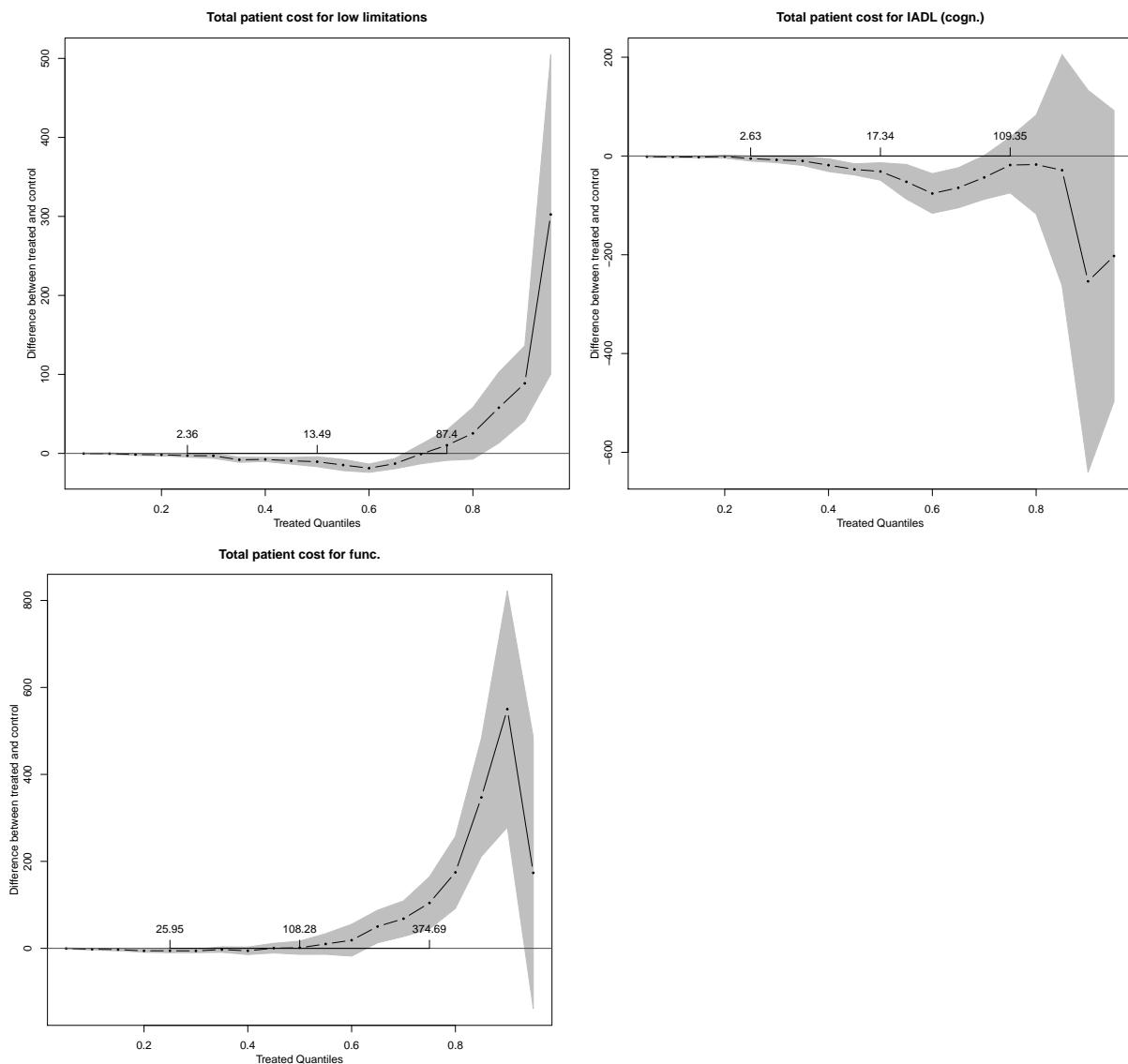


Figure 6.21: Graphs of the differences of the total cost for patients between treated and control, for six months, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

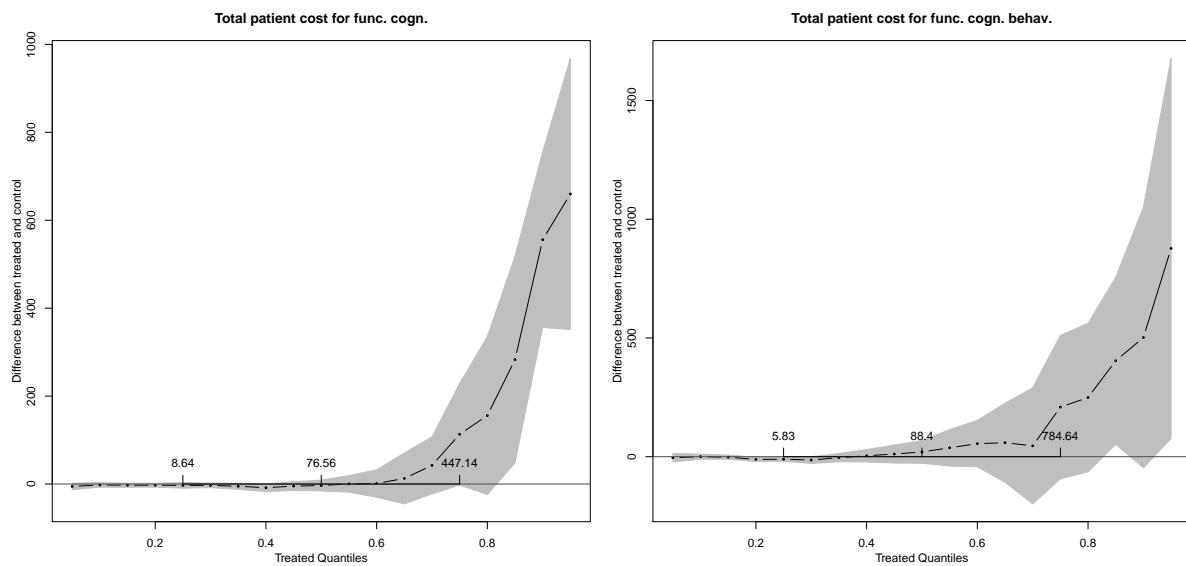


Figure 6.22: Graphs of the differences of the total cost for patients between treated and control, for six months, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

### 6.1.7 Cost differences for the stakeholders between treated and control

Table 6.17: Average cost differences between treated and control group per month (adjusted according to the level of cost before intervention, socio economic proxy and deaths)

	NIHDI Home		NIHDI Home + hosp. + inter		All NIHDI + patients + regions	
	Diff mean adj.	IC95	Diff mean adj.	IC95	Diff mean adj.	IC95
Low limit.	-182	-210.3/-152.2	-114	-269.8/87	-114	-297/107.8
IADL (cogn.)	-323	-376.8/-262.3	-380	-524.3/-206.2	-498	-679.9/-282.2
Func.	-427	-468.4/-379.2	-444	-648.1/-198.9	-313	-579.7/-12
Func. cogn. or func. cogn. behav.	-544	-638.5/-427.5	-442	-715.2/-143.1	-126	-459.7/251.7

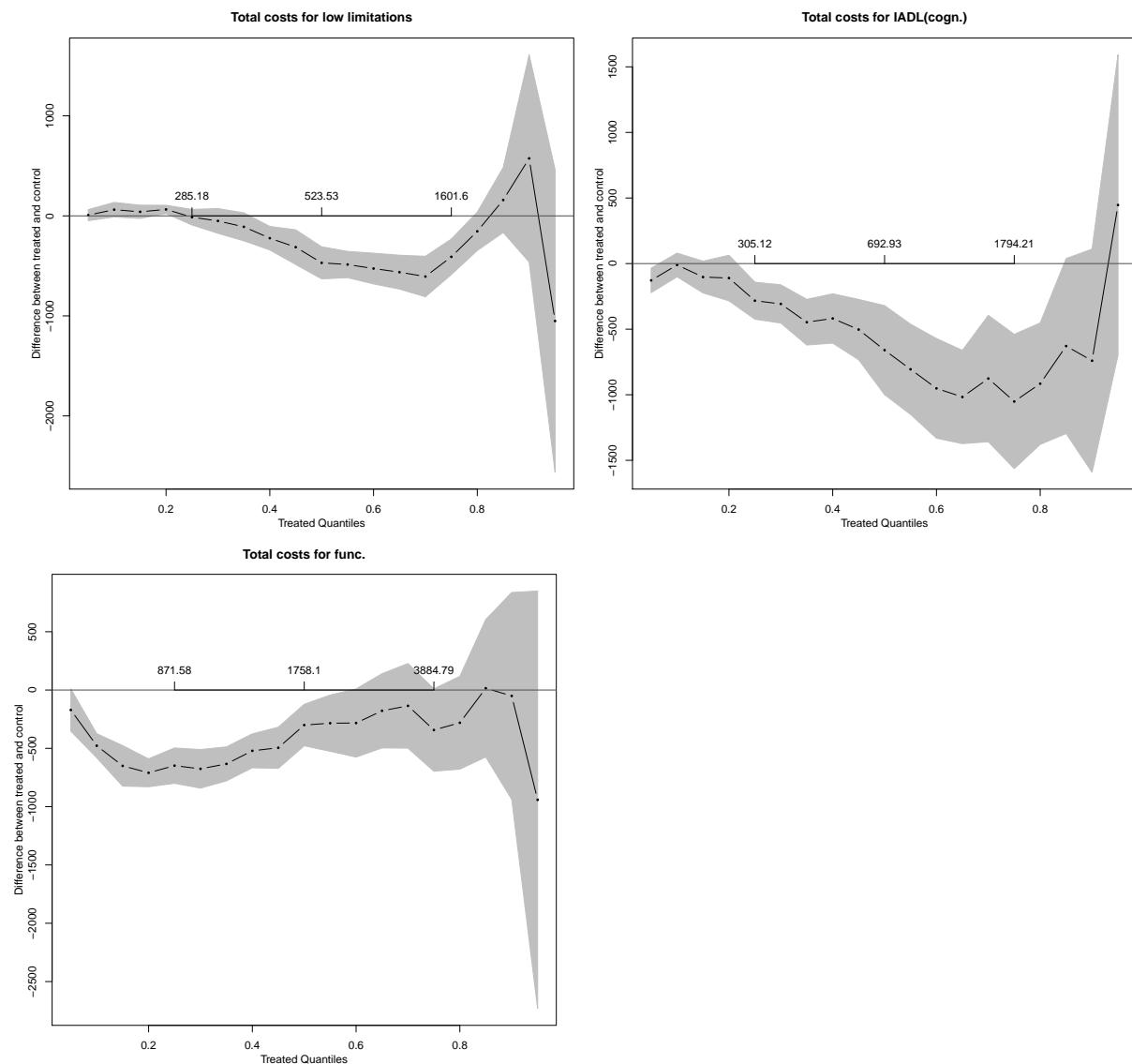


Figure 6.23: Graphs of the differences of the total cost at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the total cost before intervention (per month, per client)

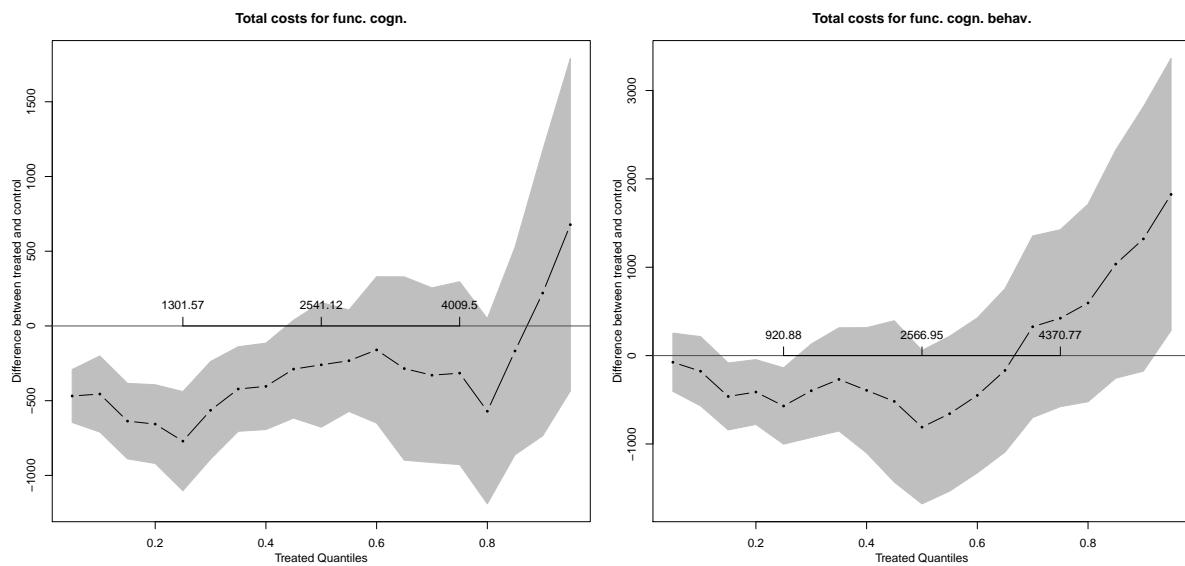


Figure 6.24: Graphs of the differences of the total cost at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the total cost before intervention (per month, per client)

### 6.1.8 Social care services

	Fam. care		Household aid		Meals-on-Wheels	
	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>						
Mean T	1101.7	1042.8	231.1	275.3	10.4	21.7
IC95 T	863/1383	781/1392	193/272	234/319	6/15	14/30
Missing T (%)	36.9	46.6	13.1	42	13.1	41.7
Mean C	635	391.3	320.1	356.8	13.1	9.3
IC95 C	329/990	268/552	287/359	331/384	9/18	6/13
Missing C (%)	65.3	43.2	4.3	9.1	4.3	9.1
<b>IADL (cogn.)</b>						
Mean T	1838.9	1709.3	396.1	461.6	24.4	31.3
IC95 T	1535/2127	1412/2049	332/466	388/543	17/31	22/41
Missing T (%)	26.5	40.7	10	35.1	10	34.5
Mean C	1337.4	840	533.1	587.8	40.8	39.3
IC95 C	902/1581	520/1063	480/588	530/652	32/50	31/47
Missing C (%)	56.9	48	1.7	15.7	1.7	15.7
<b>Func.</b>						
Mean T	1551.5	1505.5	406	700.9	19.6	31.4
IC95 T	1286/1859	1082/1907	338/488	558/851	14/26	20/44
Missing T (%)	32.4	68.1	13.9	69.6	13.9	69.6
Mean C	1134.9	1220.5	571.4	574.9	41	38.7
IC95 C	849/1464	862/1643	512/635	520/633	33/50	31/47
Missing C (%)	50.5	55.5	3.9	22	3.9	22
<b>Func. cogn.</b>						
Mean T	2359.3	2420.4	562.4	599.4	18	14.1
IC95 T	2022/2708	1960/2893	457/682	459/759	10/28	7/23
Missing T (%)	29.3	53	8.5	32.9	8.5	32.9
Mean C	2503.9	2356.6	638.7	676.3	24.6	17.6
IC95 C	2054/2975	1920/2786	534/749	575/781	16/34	10/26
Missing C (%)	46.3	45.1	1.8	11	1.8	11
<b>Func. cogn. behav.</b>						
Mean T	3492.3	3198.6	516.9	563.9	3.6	6
IC95 T	2791/4146	2520/3898	325/779	380/769	0/8	0/15
Missing T (%)	43.8	43.8	14.1	17.2	14.1	17.2
Mean C	2811.1	2629	610.9	579.9	5.2	11.3
IC95 C	1957/3662	1908/3353	434/812	427/738	0/13	3/22
Missing C (%)	48.4	39.1	0	9.4	0	9.4

### 6.1.9 Number of days at home and in residential care facilities for six months

Table 6.18: Average number of days for 6 months

	Temp. NH		Hosp.		Def. NH		Days home		Days alive
	Bef	Aft	Bef	Aft	Aft		Bef	Aft	Aft
<b>Low limit.</b>									
Mean T	0.7	1	10.9	8.4	1.4		158.3	156.1	177.9
Mean C	1.1	0.4	3.4	4.5	2.5		163.2	161.9	182.4
Diff. TC. IC95	-1.3/1	0/1	4.9/10	1.6/7	-3.4/1		-11.7/2	-12.5/1	-7/-3
<b>IADL (cogn.)</b>									
Mean T	1	2.5	13.6	8.7	5.6		155.1	151	179.3
Mean C	0.8	1.6	5	5	9.9		166.4	152.1	176.1
Diff. TC. IC95	-0.8/1	-0.9/3	4.5/13	1.3/6	-9.2/0		-18.8/-4	-10.7/8	0.1/6
<b>Func.</b>									
Mean T	1.8	4.6	24.4	16.7	11.6		153.5	135.4	169.5
Mean C	0.9	1.3	2.6	6.5	2.5		153.1	145.5	180
Diff. TC. IC95	0/2	1.7/5	18.6/25	7.7/13	5.5/13		-6/7	-18.1/-2	-14.6/-7
<b>Func. cogn.</b>									
Mean T	3.8	5.4	20.3	11.8	11.8		151.9	133.6	166.2
Mean C	0.6	2.5	7.3	6.5	5.7		163.8	150.9	172.8
Diff. TC. IC95	1.4/5	0.1/6	7.9/19	2.4/9	0.4/12		-20.7/-3	-27.1/-7	-13.8/0
<b>Func. cogn. behav.</b>									
Mean T	2.3	5.9	8.8	15.2	14.5		158.9	130	174.3
Mean C	1.8	8.4	7.7	8.5	3.3		171.7	152.2	172.1
Diff. TC. IC95	-2.1/3	-8/3	-3.5/6	1.6/12	3.2/19		-23.7/-2	-40.1/-6	-6.1/10

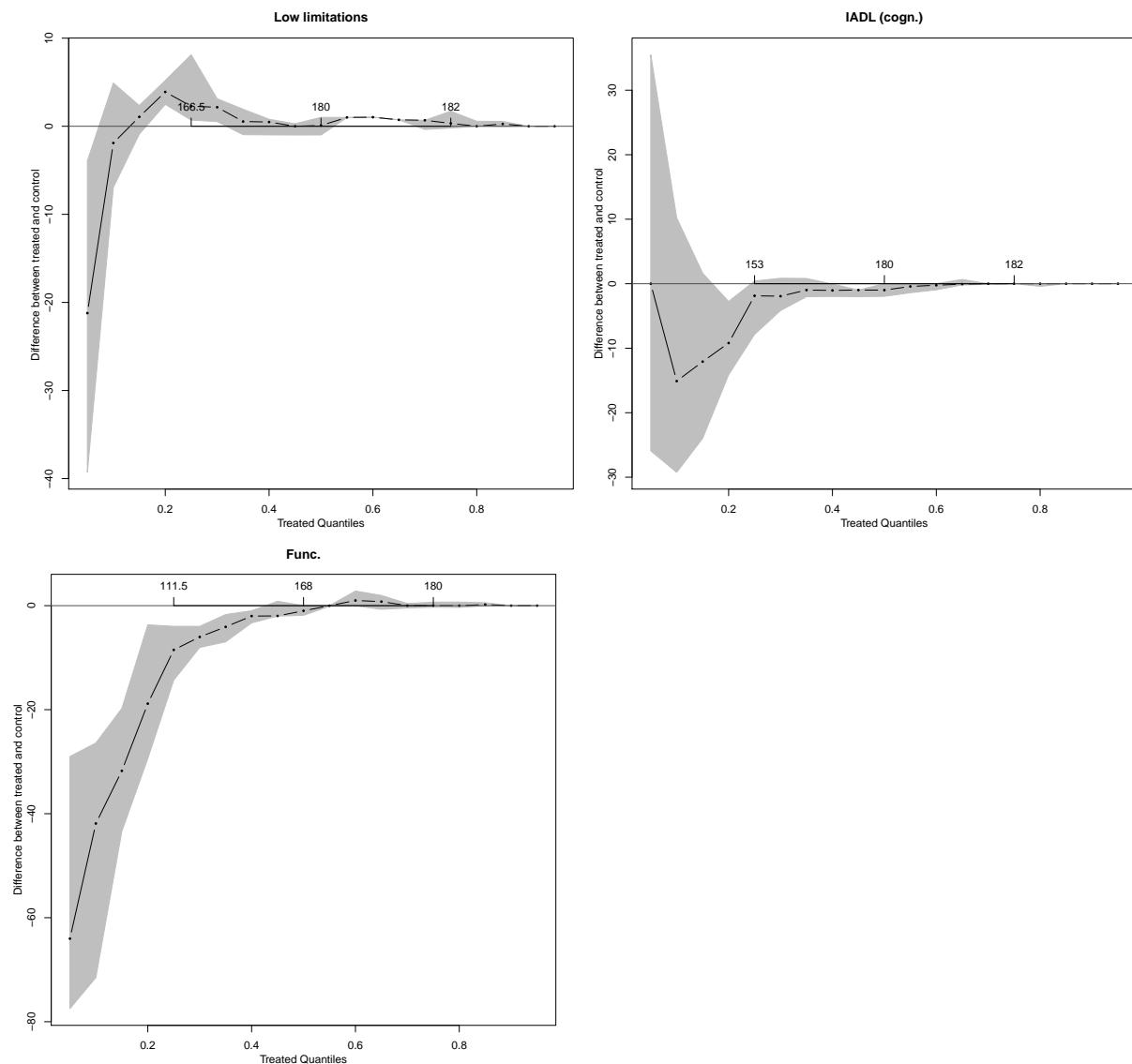


Figure 6.25: Graphs of the differences of days spent at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the number of days at home before intervention

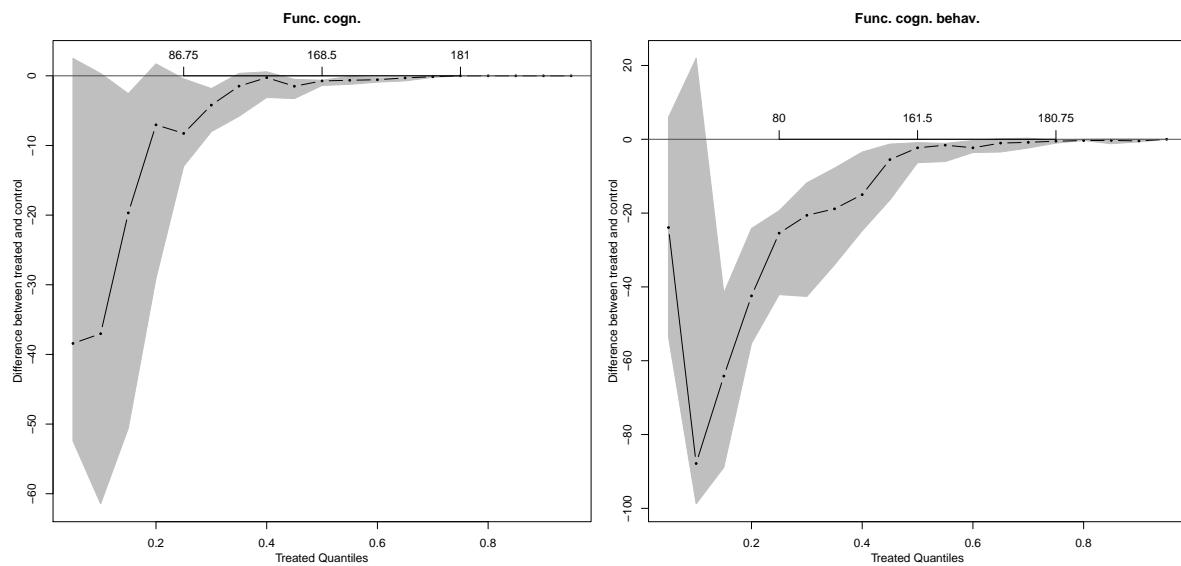


Figure 6.26: Graphs of the differences of days spent at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the number of days at home before intervention

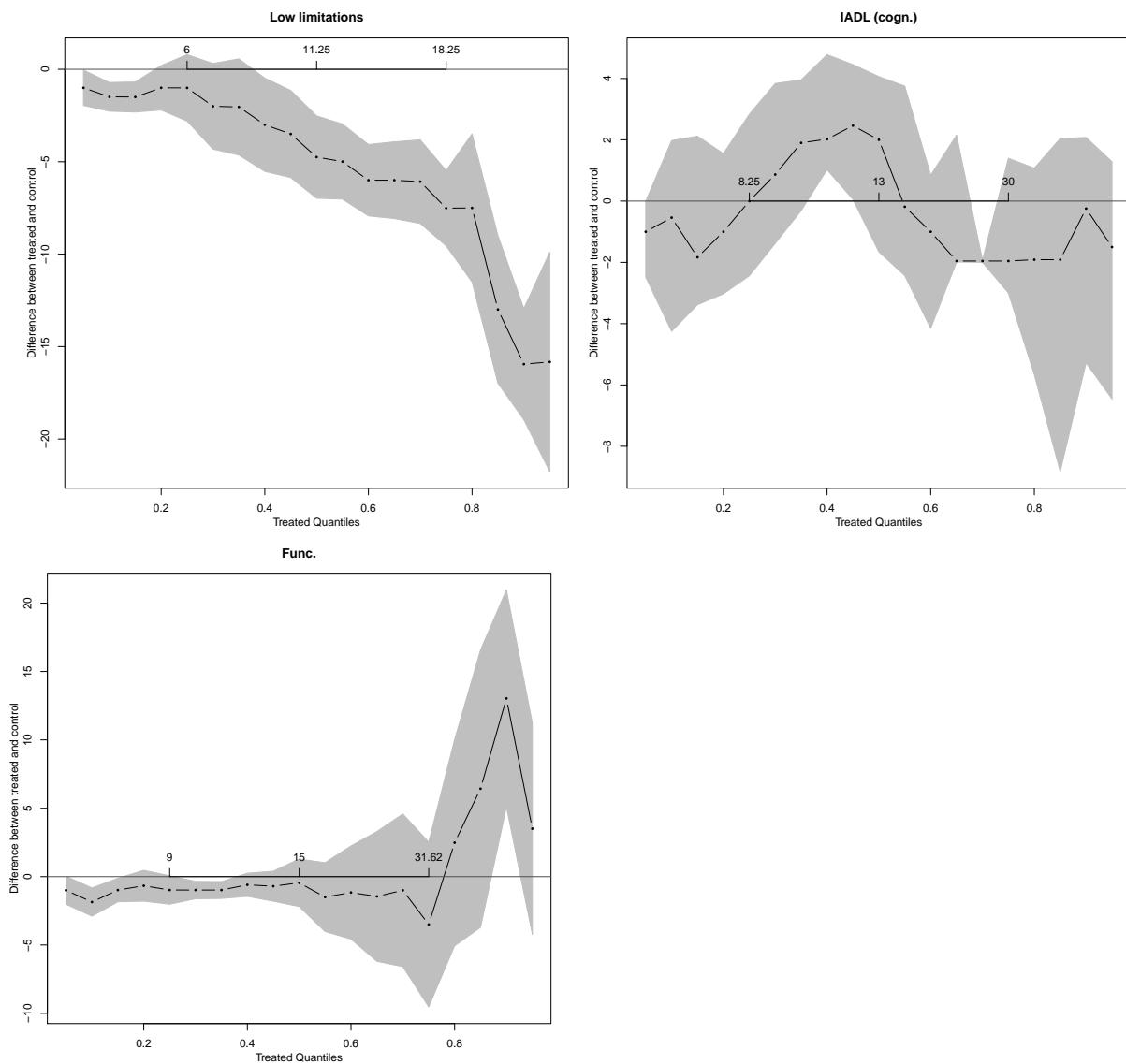


Figure 6.27: Graphs of the differences of days spent in hospital between treated and control, for six months, only for people with at least one hospitalisation, adjusted according to the proxy of the socio economic status and the number of days alive for six months

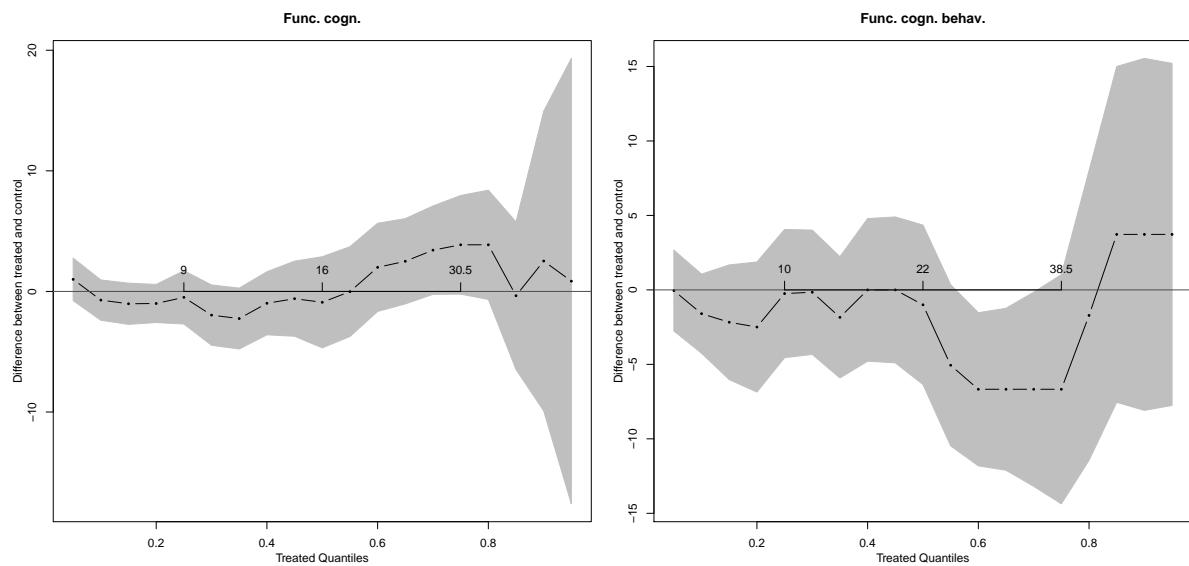


Figure 6.28: Graphs of the differences of days spent in hospital between treated and control, for six months, only for people with at least one hospitalisation, adjusted according to the proxy of the socio economic status and the number of days alive for six months

# Chapter 7

## F1I1

### 7.1 Comparison with the IMA control group

#### 7.1.1 Description of disability groups

- At inclusion

Table 7.1: Proportion above the cut off of BelRAi scales

	No event	Nursing	Hospi	STI	Nursing, hospi
IADL	68.72	86.21	83.42	87.88	92.89
ADL	27.90	60.99	26.20	72.73	53.42
CPS	20.94	31.03	7.49	45.45	14.47
Behav.	11.68	15.52	4.81	24.24	7.11
DRS	21.97	27.41	9.19	27.27	12.06
N	1122.00	1392.00	374.00	33.00	380.00

- Six months after inclusion

Table 7.2: Proportion above the cut off of BelRAi scales

	No event	Nursing	Hospi	STI	Nursing, hospi
IADL	58.08	82.08	55.56	85.19	76.51
ADL	17.25	49.70	10.64	66.67	31.48
CPS	19.25	28.71	4.79	44.44	8.65
Behav.	9.11	12.15	2.72	21.43	4.14
DRS	17.93	21.84	5.45	28.57	9.65
N	1122.00	1392.00	374.00	33.00	380.00

## 7.1.2 Description of socio-demographic variables

Table 7.3: Sociodemographic characteristics for the treated and the control group depend on the health profiles

	No event		Nursing		Hospi		STI		Nursing, hospi	
	T	C	T	C	T	C	T	C	T	C
<b>Age</b>										
Median[IQR]	80[74-85]	80[75-84]	82[77-86]	82[77-87]	82[77-86]	82[76-85]	83[81-87]	85[81-89]	83[78-87]	84[79-88]
<b>Gender</b>										
% Men	31.19	43.14	28.45	29.31	28.34	44.39	33.33	15.15	25.53	40.53
% Women	68.81	56.86	71.55	70.69	71.66	55.61	66.67	84.85	74.47	59.47
<b>ICG</b>										
% No ICG	19.96	-	13.86	-	22.19	-	15.15	-	15.53	-
% No cohabitant	54.19	-	54.45	-	61.23	-	63.64	-	67.37	-
% Cohabitant	25.85	-	31.68	-	16.58	-	21.21	-	17.11	-
<b>Region</b>										
Bruxelles	9.54	10.25	3.74	4.53	4.81	10.96	3.03	3.03	2.89	3.42
Flandre	74.42	56.51	79.6	64.3	88.77	55.35	54.55	42.42	90.53	65.79
Wallonie	16.04	33.24	16.67	31.18	6.42	33.69	42.42	54.55	6.58	30.79
<b>Median income</b>										
Low	17.74	29.5	14.87	22.84	8.56	32.62	36.36	21.21	12.11	35.53
Medium	60.7	45.81	58.76	54.74	77.01	46.26	57.58	57.58	73.42	46.84
High	21.57	24.69	26.36	22.41	14.44	21.12	6.06	21.21	14.47	17.63
<b>N</b>										
Unique value	1122	943	1392	844	374	247	33	28	380	169



### 7.1.3 Utilisation of services

#### Appropriate use of services (six months post inclusion)

Table 7.4: IC differnce of mean between treated and control for the dependency IMA outcomes

	Nursing Care N months		Short term institu. N stays		Day care center N days	
	Use	Users	Use	Users	Use	Users
<b>No event</b>						
% / Med[IQR] C	16.22	4[2-6]	1.07	39[16-53]	1.52	18[18-24]
% / Med[IQR] T	49.2	5[2-6]	10.07	22[13-43]	1.69	47[27-84]
OR [IC95]	5.1[4.23/6.23]		9.82[5.87/21.6]		13.05[3.25/148786573.52]	
<b>Nursing</b>						
% / Med[IQR] C	87.86	6[6-6]	4.31	14[11-54]	4.09	44[14-77]
% / Med[IQR] T	85.13	6[5-6]	15.16	24[13-40]	5.53	25[10-49]
OR [IC95]	0.88[0.7/1.1]		3.61[2.7/5.01]		2.85[1.78/5.11]	
<b>Hospi.</b>						
% / Med[IQR] C	31.82	5[2-6]	8.82	44[24-44]	0.53	24[16-32]
% / Med[IQR] T	67.91	4[2-6]	19.52	27[14-44]	1.87	13[12-28]
OR [IC95]	4.46[3.25/6.27]		2.84[1.87/4.72]		-[-/-]	
<b>STI</b>						
% / Med[IQR] C	33.33	6[3-6]	48.48	44[18-108]	12.12	92[59-105]
% / Med[IQR] T	72.73	6[5-6]	21.21	15[10-24]	3.03	26[26-26]
OR [IC95]	6.5[1.19/1273667833057996]		0.26[0.04/0.85]		-[-/-]	
<b>Nursing, Hospi</b>						
% / Med[IQR] C	89.21	6[6-6]	11.84	38[26-72]	2.11	15[11-30]
% / Med[IQR] T	83.42	6[3-6]	25.79	24[14-52]	3.16	7[2-35]
OR [IC95]	0.65[0.43/1.04]		2.32[1.62/3.35]		1.6[0.62/5.31]	

Table 7.5: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Inclusion)

	No event		Nursing		Hospi		STI		Nursing, hospi	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim										
ADL or Incont	0(0)	100(26.1)	100(5.3)	0(0)	0(0)	100(7.6)	0(0)	100(3.4)	100(1.6)	0(0)
Low lim, ADL & Incont										
ADL lim	0(0)	100(1.6)	100(0.9)	0(0)	0(0)	100(0.3)	-(0)	-(0)	100(0.3)	0(0)
Incont										
ADL & Incont lim	0(0)	100(3.2)	100(1.9)	0(0)	0(0)	100(1.6)	-(0)	-(0)	100(0.3)	0(0)
ADL ? No Incont	0(0)	100(11.1)	100(33.2)	0(0)	0(0)	100(7.6)	71.4(34.5)	28.6(13.8)	100(23.2)	0(0)
tot	0(0)	100(100)	100(100)	0(0)	0(0)	100(100)	65.5(65.5)	34.5(34.5)	100(100)	0(0)

Table 7.6: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated second eval)

	No event		Nursing		Hospi		STI		Nursing, hospi	
	N.	W. N.	N.	W. N.						
No lim										
ADL or Incont	27.5(7.2)	72.5(18.9)	80.3(4.2)	19.7(1)	39.3(3)	60.7(4.6)	0(0)	100(3.4)	100(1.6)	0(0)
Low lim,										
ADL & Incont	47.1(0.7)	52.9(0.8)	75(0.7)	25(0.2)	100(0.3)	0(0)	-(0)	-(0)	0(0)	100(0.3)
ADL lim	49.4(8)	50.6(8.2)	85.8(18.8)	14.2(3.1)	51.2(5.7)	48.8(5.4)	75(31)	25(10.3)	75(8)	25(2.7)
Incont	31.4(1)	68.6(2.2)	57.7(1.1)	42.3(0.8)	66.7(1.1)	33.3(0.5)	-(0)	-(0)	100(0.3)	0(0)
ADL & Incont	61.2(6.8)	38.8(4.3)	89.3(29.7)	10.7(3.6)	71.4(5.4)	28.6(2.2)	92.9(44.8)	7.1(3.4)	89.7(20.8)	10.3(2.4)
lim										
ADL ?										
No Incont	62.1(26)	37.9(15.9)	83.3(30.6)	16.7(6.1)	74(53.1)	26(18.7)	0(0)	100(6.9)	82.5(52.8)	17.5(11.2)
tot	49.7(49.7)	50.3(50.3)	85.1(85.1)	14.9(14.9)	68.6(68.6)	31.4(31.4)	75.9(75.9)	24.1(24.1)	83.5(83.5)	16.5(16.5)

### Appropriate use of services (twelve months post inclusion)

Table 7.7: IC differnce of mean between treated and control for the dependency IMA outcomes

	Nursing Care		Short term institu.		Day care center	
	N months	Use	N stays	Use	N days	Use
No event						
% / Med[IQR] C	18.98		4[2-10]	3.65	58[20-72]	1.6
% / Med[IQR] T	37.7		5[2-9]	13.81	23[14-52]	2.41
OR [IC95]	2.95[2.4/3.61]			3.76[2.68/5.53]		10.16[3.5/63455741.62]
Nursing						
% / Med[IQR] C	80.32		12[9-12]	9.7	45[21-77]	4.38
% / Med[IQR] T	70.04		10[5-12]	20.62	28[14-54]	6.47
OR [IC95]	0.8[0.64/0.99]			2.1[1.68/2.69]		3.02[1.9/5.38]
Hospi.						
% / Med[IQR] C	33.16		5[2-12]	11.76	44[13-44]	0.8
% / Med[IQR] T	38.5		4[2-10]	22.73	31[14-52]	2.14
OR [IC95]	1.19[0.88/1.63]			2.53[1.69/3.91]		2.58[0.65/54367903.07]
STI						
% / Med[IQR] C	33.33		10[3-12]	57.58	43[20-110]	12.12
% / Med[IQR] T	63.64		9[6-10]	27.27	25[15-47]	6.06
OR [IC95]	3.11[0.58/7.45316019362997e+39]			0.23[0.04/0.7]		-[-/-]
Nursing, Hospi						
% / Med[IQR] C	75.26		12[8-12]	14.74	68[38-112]	2.11
% / Med[IQR] T	58.42		8[3-12]	28.95	28[16-66]	3.95
OR [IC95]	0.33[0.19/0.52]			2.2[1.53/3.25]		1.94[0.84/7.22]

Table 7.8: Proportion of utilisation of short term institutionalization depend on the levels of presence of icg and BelRAI profiles

No event				Nursing				Hospi				
	W	No Coh	Coh	tot	W	No Coh	Coh	tot	W	No Coh	Coh	tot
<b>low limit.</b>												
%	5.9(3.1)	12.2(3)	3.9(0.7)	8.5(2.4)	7.4(2.1)	13.3(1.5)	5.9(0.2)	10.4(1.1)	6.7(2.4)	16.7(2.2)	25(3.2)	13.2(2.4)
% zarit	/	33.3	50	35.7	/	37.5	100	44.4	/	66.7	50	60
<b>IADL, (cogn.)</b>												
%	6.1(0.9)	12(3.3)	6.2(2.1)	9.5(2.5)	4.2(0.5)	20(3.6)	20.4(2.5)	18.3(2.8)	35.7(6)	19.6(4.8)	25(6.5)	23.3(5.3)
% zarit	/	53.3	75	57.9	/	66.7	70	67.7	/	40	100	57.1
<b>func.</b>												
%	10.9(3.1)	23.3(9.5)	13.2(3.1)	19.4(6.6)	19.6(9.3)	26.2(13.1)	22.4(7.9)	24.3(10.9)	17.9(8.4)	28.4(16.6)	20(9.7)	25.1(13.6)
% zarit	/	37	42.9	37.7	/	43.2	50	44.9	/	28.6	50	32.4
<b>func., cogn.</b>												
%	12.5(0.4)	23.8(1.6)	18.5(3.4)	20.2(1.9)	4.8(0.5)	23.8(4.6)	18(7.5)	19.7(5)	-(0)	25(0.9)	37.5(4.8)	31.2(1.3)
% zarit	/	55.6	50	52.9	/	50	51.7	50.9	-	100	100	100
<b>func., cogn., behav.</b>												
%	0(0)	0(0)	23.8(1.7)	19.2(0.4)	0(0)	40(0.8)	16.1(1.1)	22.9(0.8)	-(0)	0(0)	-(0)	0(0)
% zarit	-	-	100	100	-	83.3	100	90.9	-	-	-	-
<b>tot</b>												
%	7.6(7.6)	17.4(17.4)	11(11)	13.8(13.8)	12.4(12.4)	23.5(23.5)	19.3(19.3)	20.6(20.6)	16.9(16.9)	24.5(24.5)	24.2(24.2)	22.7(22.7)
% zarit	-	41.5	61.5	46.3	-	49.3	57.7	52.1	-	35.7	71.4	44.6

Table 7.9: Proportion of utilisation of short term institutionalization depend on the levels of presence of icg and BelRAI profiles

STI				Nursing, hospi				
	W	No Coh	Coh	tot	W	No Coh	Coh	tot
<b>low</b>								
<b>limit.</b>								
%	0(0)	0(0)	-(0)	0(0)	0(0)	11.1(0.8)	0(0)	9.1(0.5)
% zarit	-	-	-	-	-	0	-	0
<b>IADL,</b>								
<b>(cogn.)</b>								
%	0(0)	25(4.8)	-(0)	20(3)	20(1.7)	29(3.5)	40(3.1)	29.3(3.2)
% zarit	-	/	-	/	/	75	50	70
<b>func.</b>								
%	0(0)	42.9(14.3)	0(0)	25(9.1)	21.4(15.3)	33.9(23.4)	24.4(15.4)	30.4(20.8)
% zarit	-	33.3	-	33.3	/	59.2	75	61.4
<b>func.,</b>								
<b>cogn.</b>								
%	-(0)	37.5(14.3)	50(14.3)	40(12.1)	25(3.4)	28(2.7)	18.8(4.6)	24.5(3.2)
% zarit	-	100	100	100	/	85.7	66.7	80
<b>func.,</b>								
<b>cogn.,</b>								
<b>behav.</b>								
%	-(0)	-(0)	33.3(14.3)	33.3(3)	100(1.7)	60(1.2)	50(1.5)	62.5(1.3)
% zarit	-	-	100	100	/	100	100	100
<b>tot</b>								
%	0(0)	33.3(33.3)	28.6(28.6)	27.3(27.3)	22(22)	31.6(31.6)	24.6(24.6)	28.9(28.9)
% zarit	-	66.7	100	75	-	63.8	71.4	65.1

## Inappropriate use of services (six months post inclusion)

Table 7.10: IC difference of mean between treated and control for the low value IMA outcomes

	Emergency N visits		GP out-of hours N visits		Hospilisation N visits	
	Use	Users	Use	Users	Use	Users
<b>No event</b>						
% / Med[IQR] C	17.2	1[1-1]	11.85	1[1-1]	19.88	1[1-2]
% / Med[IQR] T	22.99	1[1-2]	10.96	1[1-2]	41.89	1[1-2]
OR [IC95]	1.52[1.23/1.89]		0.88[0.67/1.14]		3.11[2.57/3.86]	
<b>Nursing</b>						
% / Med[IQR] C	29.74	1[1-1]	17.03	1[1-1]	32.69	1[1-2]
% / Med[IQR] T	25.5	1[1-2]	18.03	1[1-2]	39.3	1[1-2]
OR [IC95]	0.88[0.73/1.06]		1.08[0.88/1.32]		1.42[1.2/1.68]	
<b>Hospi.</b>						
% / Med[IQR] C	29.41	1[1-2]	14.97	1[1-2]	34.49	1[1-2]
% / Med[IQR] T	16.04	1[1-2]	10.43	1[1-1]	29.68	1[1-2]
OR [IC95]	0.52[0.35/0.73]		0.72[0.45/1.1]		0.81[0.59/1.12]	
<b>STI</b>						
% / Med[IQR] C	27.27	1[1-1]	9.09	1[1-1]	30.3	1[1-1]
% / Med[IQR] T	21.21	2[2-2]	15.15	3[2-4]	27.27	1[1-2]
OR [IC95]	0.63[0.12/2.72]		-[-/-]		0.8[0.18/2.72]	
<b>Nursing, Hospi</b>						
% / Med[IQR] C	33.95	1[1-2]	27.63	1[1-2]	44.21	1[1-2]
% / Med[IQR] T	26.84	1[1-2]	20.79	1[1-2]	39.21	1[1-2]
OR [IC95]	0.82[0.6/1.13]		0.69[0.48/1]		0.86[0.62/1.19]	

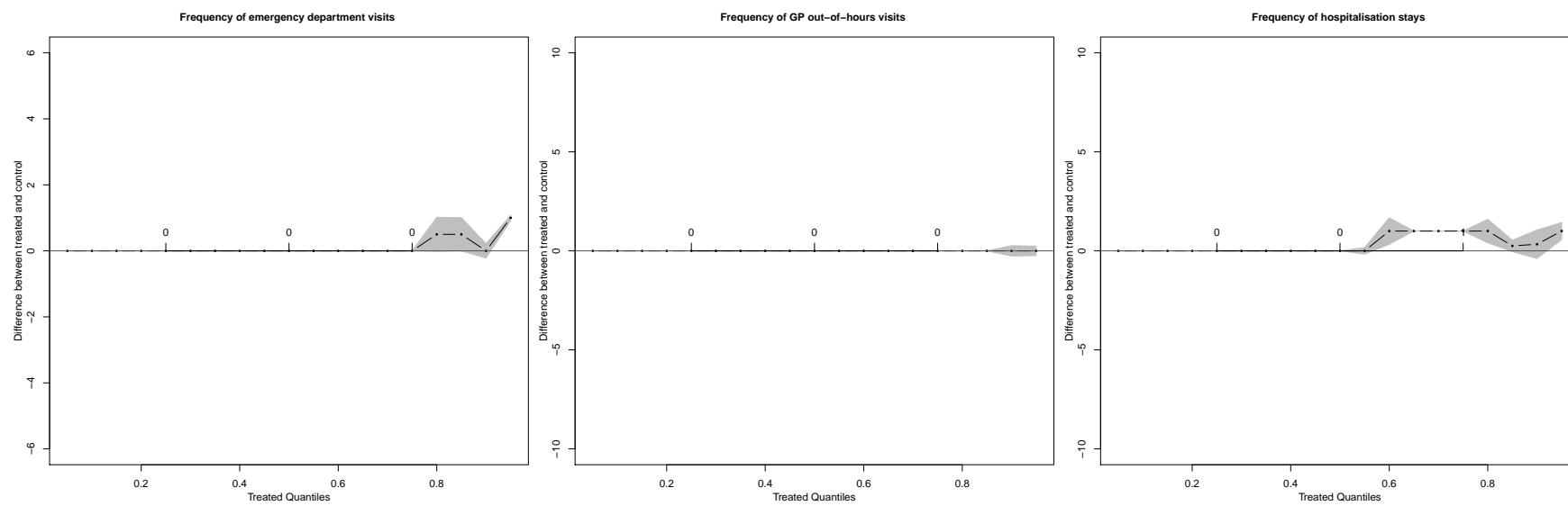


Figure 7.1: Regression quantile of inappropriate use of services (No event)

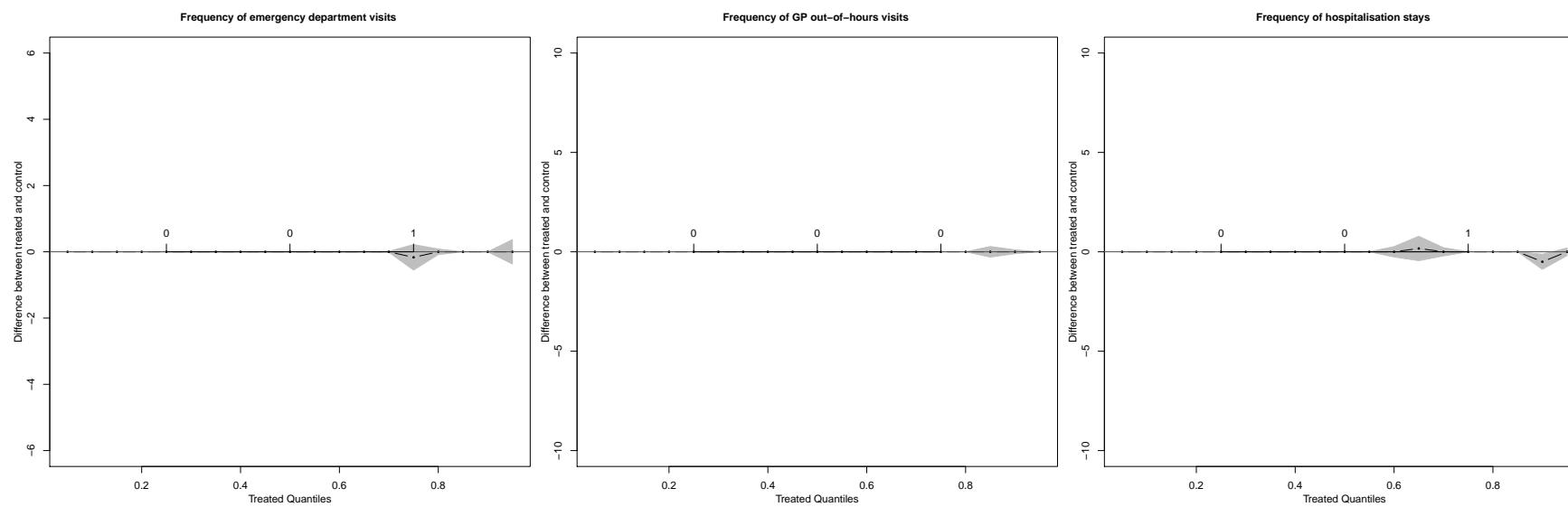


Figure 7.2: Regression quantile of inappropriate use of services (Nursing)

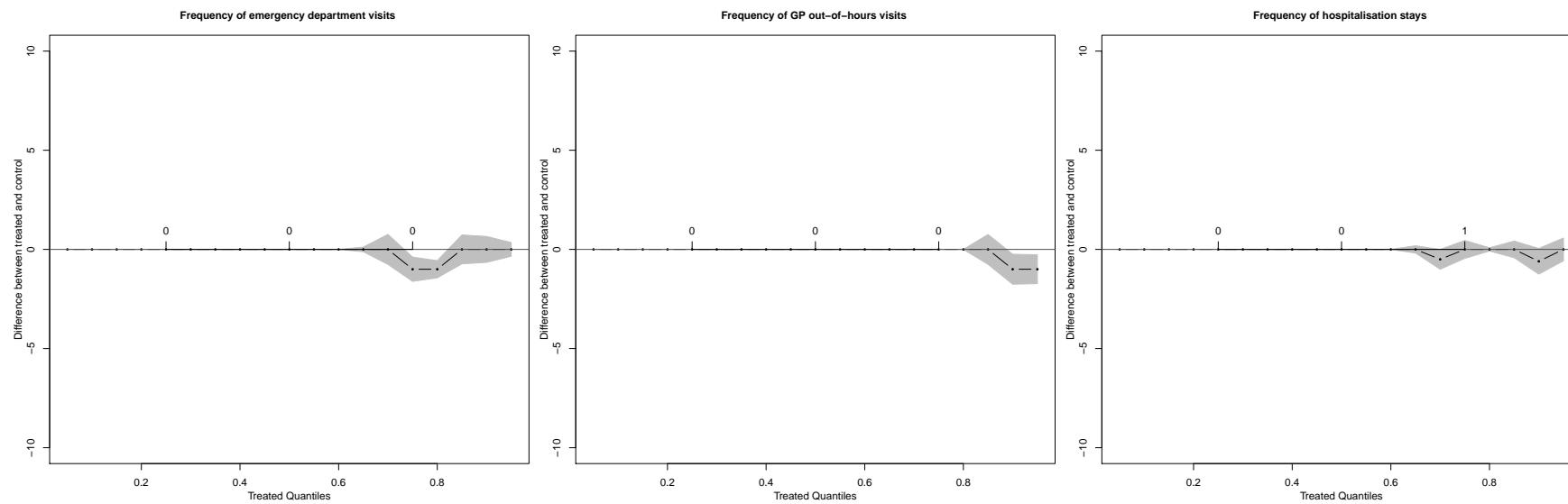


Figure 7.3: Regression quantile of inappropriate use of services (Hosp.)

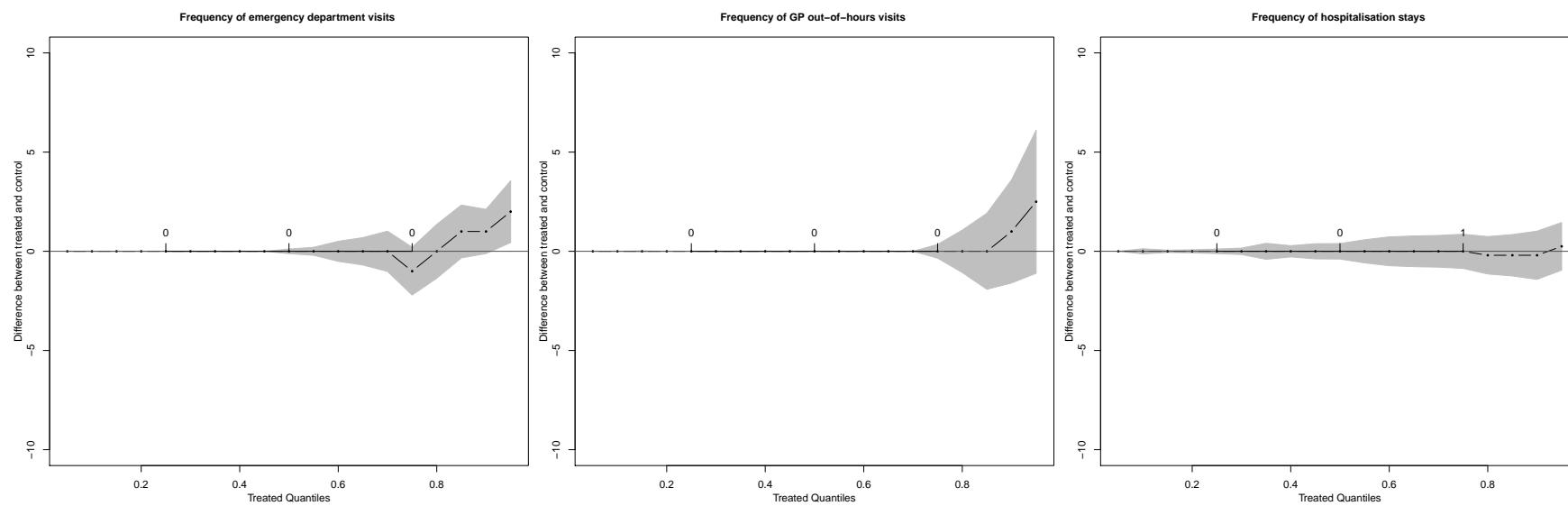


Figure 7.4: Regression quantile of inappropriate use of services (STI)

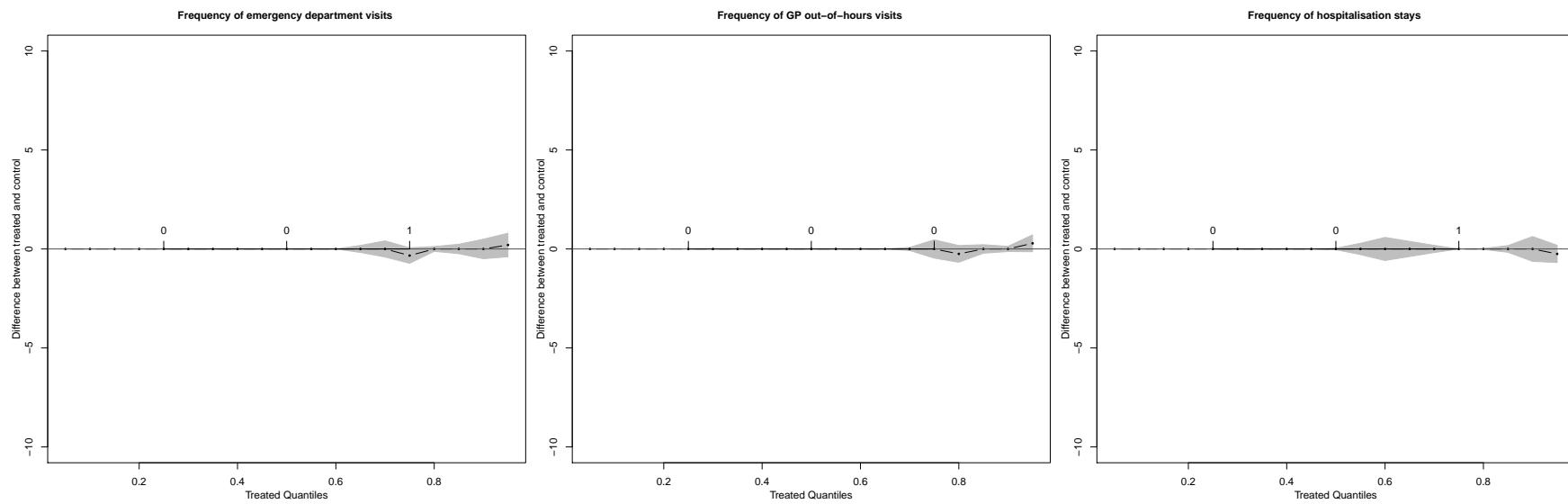


Figure 7.5: Regression quantile of inappropriate use of services (Nursing & Hospi.)

## Inappropriate use of services (twelve months post inclusion)

Table 7.11: IC difference of mean between treated and control for the low value IMA outcomes

	Emergency N visits		GP out-of hours N visits		Hospilisation N visits	
	Use	Users	Use	Users	Use	Users
<b>No event</b>						
% / Med[IQR] C	31.37	1[1-2]	18.98	1[1-1]	19.43	1[1-2]
% / Med[IQR] T	22.99	1[1-2]	18.81	2[1-2]	23.62	1[1-2]
OR [IC95]	0.64[0.52/0.76]		0.93[0.75/1.16]		1.35[1.09/1.67]	
<b>Nursing</b>						
% / Med[IQR] C	44.25	1[1-2]	26.08	1[1-2]	29.38	1[1-3]
% / Med[IQR] T	25.5	1[1-2]	27.73	1[1-2]	31.61	1[1-2]
OR [IC95]	0.41[0.35/0.49]		1.06[0.88/1.25]		1.25[1.07/1.5]	
<b>Hospi.</b>						
% / Med[IQR] C	44.65	1[1-2]	20.86	1[1-2]	20.59	2[1-3]
% / Med[IQR] T	16.04	1[1-2]	19.25	1[1-2]	21.93	1[1-2]
OR [IC95]	0.26[0.18/0.37]		0.94[0.64/1.36]		1.05[0.75/1.53]	
<b>STI</b>						
% / Med[IQR] C	33.33	1[1-1]	21.21	1[1-2]	15.15	1[1-2]
% / Med[IQR] T	21.21	2[2-2]	33.33	2[2-5]	27.27	1[1-2]
OR [IC95]	0.54[0.16/1.85]		2.53[0.66/15.89]		1.66[0.26/22.89]	
<b>Nursing, Hospi</b>						
% / Med[IQR] C	51.84	1[1-2]	31.84	1[1-2]	34.21	2[1-3]
% / Med[IQR] T	26.84	1[1-2]	28.42	1[1-2]	29.47	1[1-2]
OR [IC95]	0.33[0.24/0.46]		0.82[0.58/1.12]		0.78[0.56/1.06]	

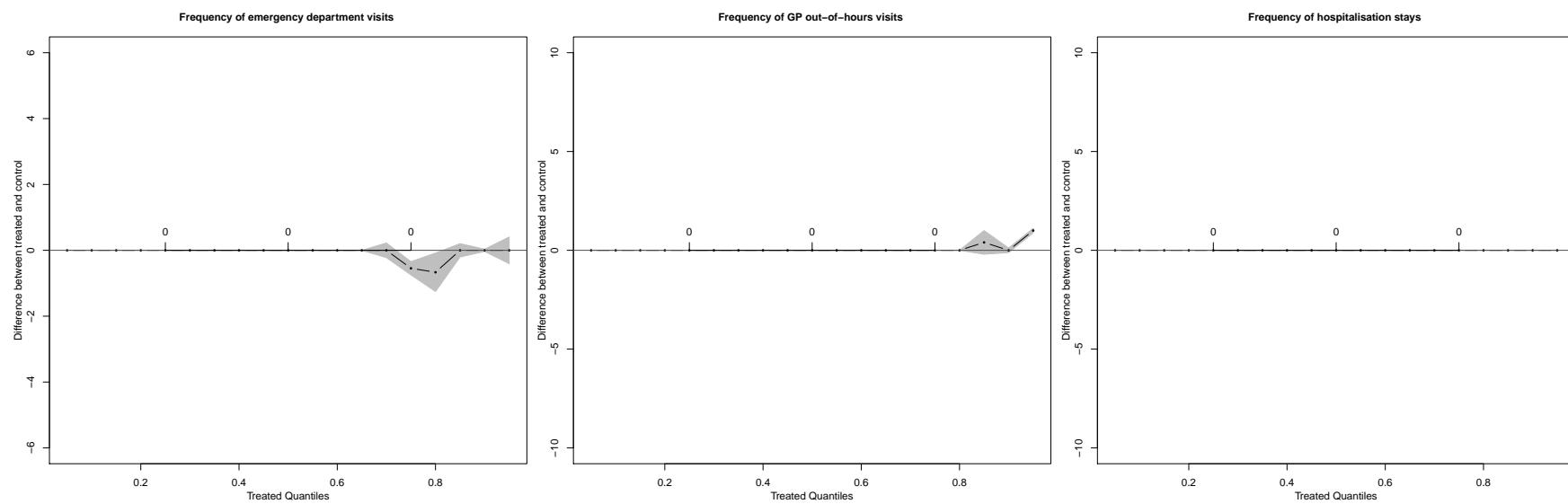


Figure 7.6: Regression quantile of inappropriate use of services (No event)

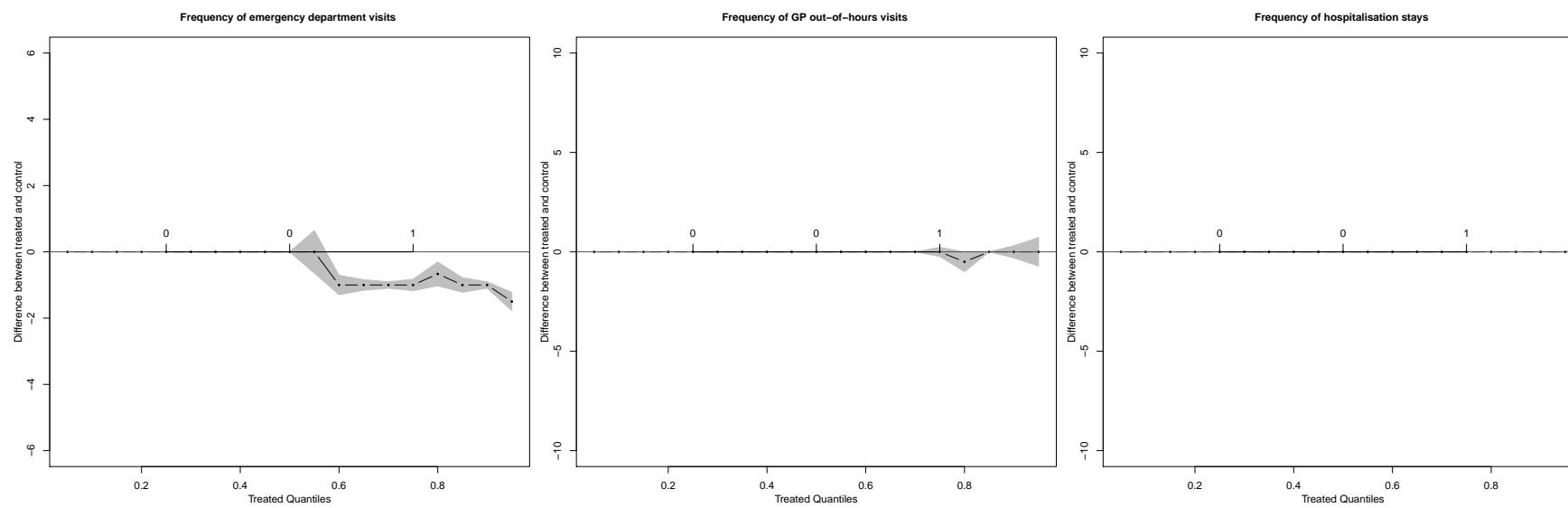


Figure 7.7: Regression quantile of inappropriate use of services (Nursing)

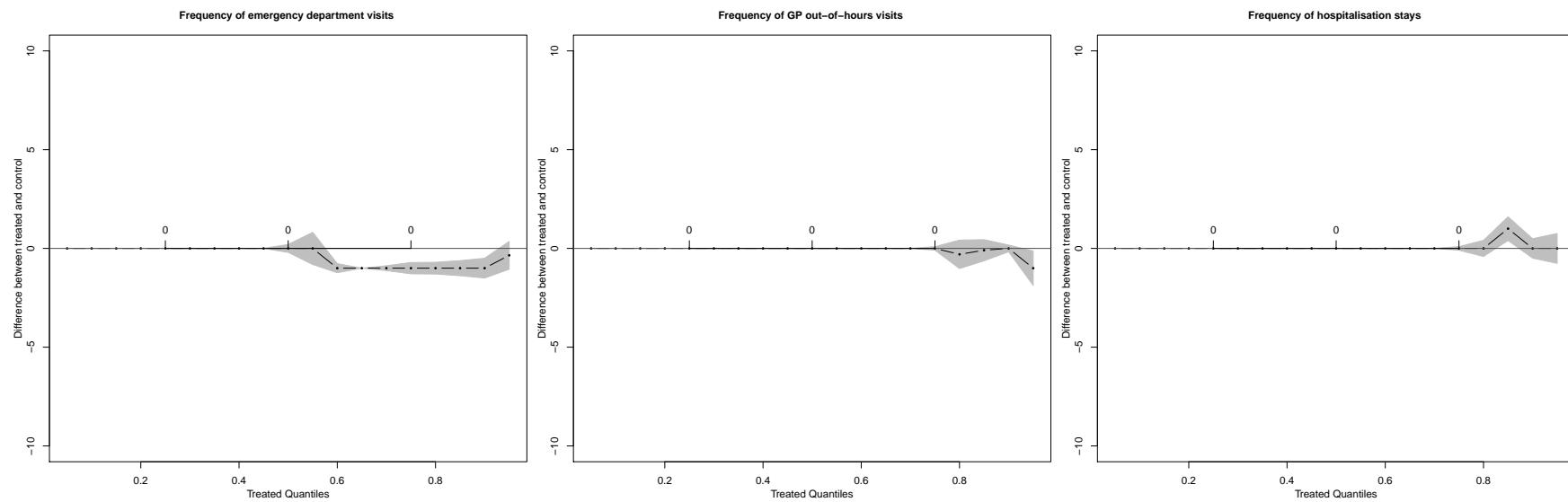


Figure 7.8: Regression quantile of inappropriate use of services (Hosp.)

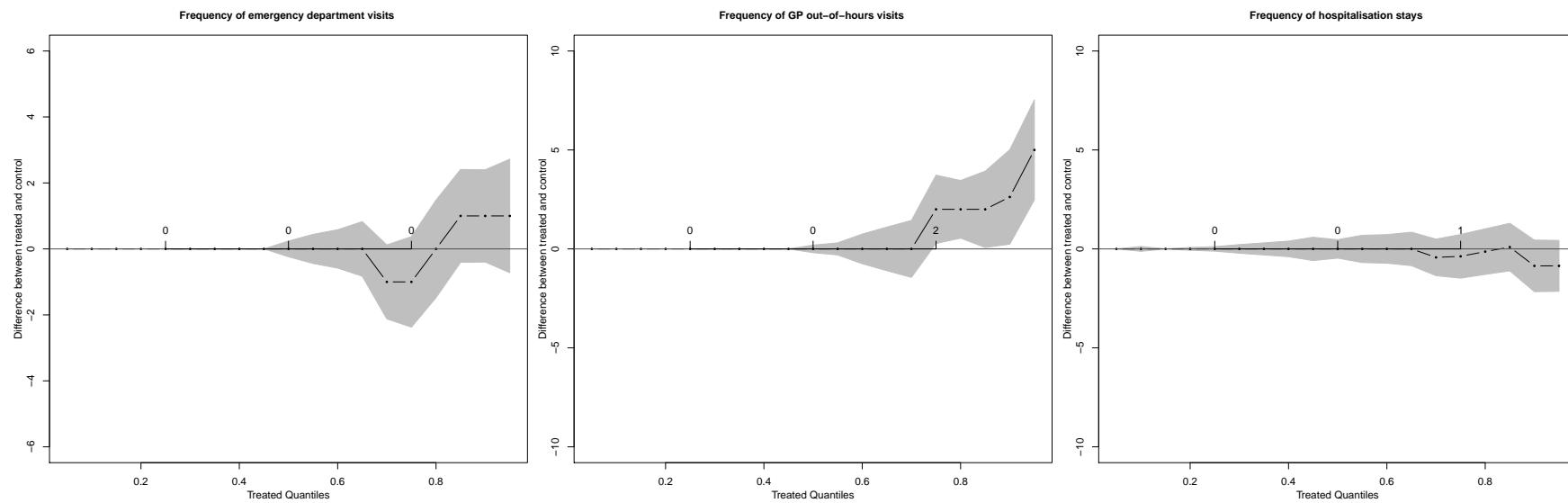


Figure 7.9: Regression quantile of inappropriate use of services (STI)

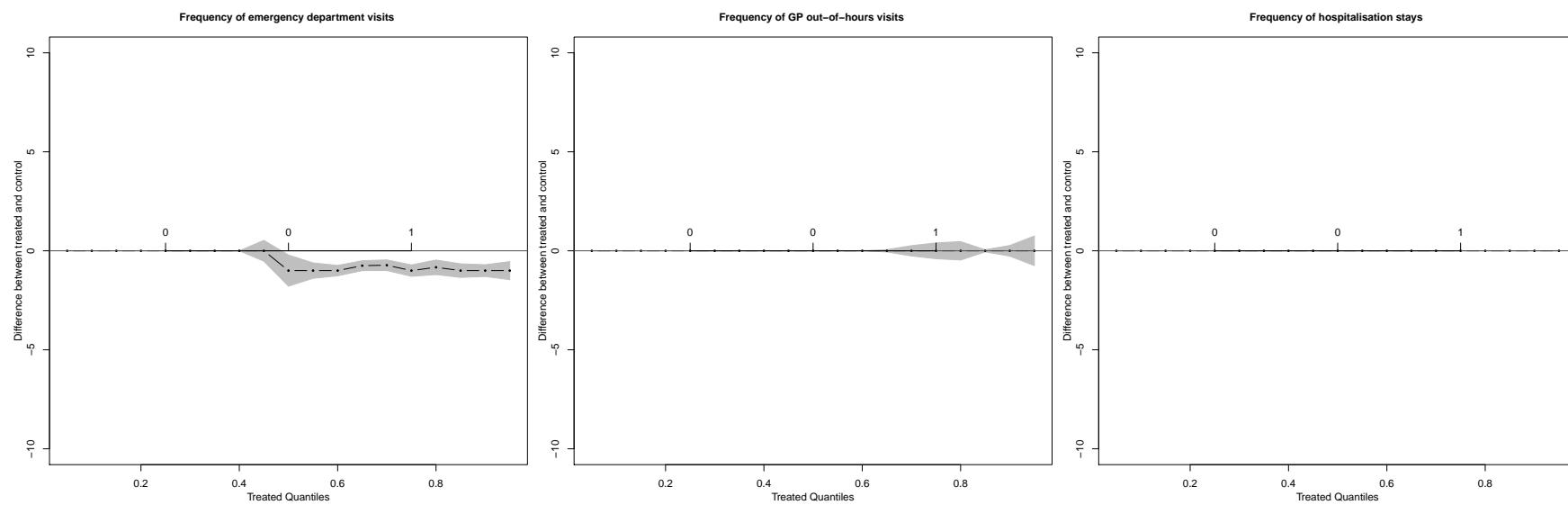


Figure 7.10: Regression quantile of inappropriate use of services (Nursing & Hospi.)

### Definitive institutionalisation and death (six months post inclusion)

Table 7.12: IC of ratio of incidence rate between treated and control for the death and the definitive institutionalisation

	Definitive institu.	Death
<b>No event</b>		
IR T	0.0088	0.0103
IR C	0.0049	0.0012
IC95	1.17/2.79	4.13/17.9
<b>Nursing</b>		
IR T	0.0168	0.0126
IR C	0.0092	0.0041
IC95	1.37/2.42	2.07/4.51
<b>Hospi.</b>		
IR T	0.012	0.0092
IR C	0.023	0.0086
IC95	0.32/0.84	0.57/2
<b>STI</b>		
IR T	0.0429	0.0157
IR C	0.1087	0.0051
IC95	0.16/0.98	0.32/29.61
<b>Nursing, Hospi</b>		
IR T	0.0231	0.0187
IR C	0.0218	0.0053
IC95	0.7/1.6	1.85/6.71

Table 7.13: Proportion of utilisation of definitive institutionalization depend on the levels of presence of icg and BelRAI profiles

No event				Nursing				Hospit.				
	W	No Coh	Coh	tot	W	No Coh	Coh	tot	W	No Coh	Coh	tot
<b>low limit.</b>												
%	5.1(2.7)	6.1(1.5)	0(0)	4.7(1.3)	5.6(1.6)	13.3(1.5)	5.9(0.2)	9.7(1.1)	3.3(1.2)	3.3(0.4)	25(3.2)	5.9(1.1)
% zarit	/	33.3	50	35.7	/	37.5	100	44.4	/	66.7	50	60
<b>IADL, (cogn.)</b>												
%	6.1(0.9)	12(3.3)	5.2(1.7)	9.2(2.4)	25(3.1)	20(3.6)	16.7(2)	19.7(3)	14.3(2.4)	17.9(4.4)	0(0)	14(3.2)
% zarit	/	53.3	75	57.9	/	66.7	70	67.7	/	40	100	57.1
<b>func.</b>												
%	10.9(3.1)	8(3.3)	7.4(1.7)	8.4(2.9)	19.6(9.3)	15.1(7.5)	8.3(2.9)	14.1(6.3)	10.3(4.8)	6.7(3.9)	10(4.8)	7.9(4.3)
% zarit	/	37	42.9	37.7	/	43.2	50	44.9	/	28.6	50	32.4
<b>func., cogn.</b>												
%	37.5(1.3)	11.9(0.8)	16.7(3.1)	16.3(1.5)	23.8(2.6)	27.9(5.4)	17.5(7.3)	22.2(5.6)	-(0)	50(1.7)	0(0)	25(1.1)
% zarit	/	55.6	50	52.9	/	50	51.7	50.9	-	100	100	100
<b>func., cogn., behav.</b>												
%	100(0.4)	25(0.2)	9.5(0.7)	15.4(0.4)	0(0)	53.3(1.1)	22.6(1.6)	31.2(1.1)	-(0)	100(0.4)	-(0)	100(0.3)
% zarit	-	-	100	100	-	83.3	100	90.9	-	-	-	-
<b>tot</b>												
%	8.5(8.5)	9(9)	7.2(7.2)	8.5(8.5)	16.6(16.6)	19(19)	14.1(14.1)	17.1(17.1)	8.4(8.4)	10.9(10.9)	8.1(8.1)	9.9(9.9)
% zarit	-	41.5	61.5	46.3	-	49.3	57.7	52.1	-	35.7	71.4	44.6

Table 7.14: Proportion of utilisation of definitive institutionalization depend on the levels of presence of icg and BelRAI profiles

STI				Nursing, hospi				
	W	No Coh	Coh	tot	W	No Coh	Coh	tot
<b>low</b>								
<b>limit.</b>								
%	0(0)	0(0)	-(0)	0(0)	0(0)	0(0)	0(0)	0(0)
% zarit	-	-	-	-	-	0	-	0
<b>IADL,</b>								
<b>(cogn.)</b>								
%	0(0)	50(9.5)	-(0)	40(6.1)	0(0)	22.6(2.7)	20(1.5)	19.5(2.1)
% zarit	-	/	-	/	/	75	50	70
<b>func.</b>								
%	0(0)	28.6(9.5)	50(14.3)	25(9.1)	26.2(18.6)	15.8(10.9)	17.1(10.8)	17.7(12.1)
% zarit	-	33.3	-	33.3	/	59.2	75	61.4
<b>func.,</b>								
<b>cogn.</b>								
%	-(0)	37.5(14.3)	0(0)	30(9.1)	25(3.4)	24(2.3)	18.8(4.6)	22.4(2.9)
% zarit	-	100	100	100	/	85.7	66.7	80
<b>func.,</b>								
<b>cogn.,</b>								
<b>behav.</b>								
%	-(0)	-(0)	66.7(28.6)	66.7(6.1)	0(0)	40(0.8)	0(0)	25(0.5)
% zarit	-	-	100	100	/	100	100	100
<b>tot</b>								
%	0(0)	33.3(33.3)	42.9(42.9)	30.3(30.3)	22(22)	16.8(16.8)	16.9(16.9)	17.6(17.6)
% zarit	-	66.7	100	75	-	63.8	71.4	65.1

### Definitive institutionalisation and death (twelve months post inclusion)

Table 7.15: IC of ratio of incidence rate between treated and control for the death and the definitive institutionalisation

	Definitive institu.	Death
<b>No event</b>		
IR T	0.0079	0.0082
IR C	0.0043	0.004
IC95	1.32/2.56	1.47/2.84
<b>Nursing</b>		
IR T	0.0171	0.0126
IR C	0.0081	0.0091
IC95	1.7/2.62	1.11/1.71
<b>Hospi.</b>		
IR T	0.0094	0.0085
IR C	0.0155	0.0086
IC95	0.4/0.92	0.63/1.57
<b>STI</b>		
IR T	0.035	0.0192
IR C	0.0699	0.0105
IC95	0.23/1.1	0.54/6.25
<b>Nursing, Hospi</b>		
IR T	0.0186	0.0172
IR C	0.021	0.0116
IC95	0.64/1.23	1.04/2.14

### 7.1.4 Health care costs linked to disability for the NIHDI

Table 7.16: Average costs of health care services and technical equipment for six months (per month, per patient)

	Interv.		Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>												
Mean T	0	175.9	3.4	121.8	13.2	50.6	2	5.1	1.2	6.6	2.2	3.4
Mean C	0	0	6.8	30.1	19.5	26.8	0.8	2.2	1.7	2.8	1.3	5.3
IC95	0/0	172/179	-5/-2	73/110	-10/-3	18/30	0/3	1/5	-2/1	2/6	-1/2	-5/2
<b>Nursing</b>												
Mean T	0	174.2	366.9	474	51.1	76	9.6	10.5	11.1	20.5	1.8	1.6
Mean C	0	0	399.1	483.7	65.2	67.8	10.8	7	16.4	16.7	3.5	3.4
IC95	0/0	171/178	-61/-7	-45/25	-20/-8	1/16	-8/5	0/7	-8/-3	0/8	-3/0	-4/0
<b>Hosp</b>												
Mean T	0	148.8	4.6	138.6	11.4	74.1	2.7	11.8	2.6	8.2	0.6	2.4
Mean C	0	0	7.4	62.7	26.2	36.4	3.6	6.9	0.4	1.7	2.5	1.5
IC95	0/0	143/154	-5/0	44/118	-21/-9	27/48	-3/1	-1/13	0/5	3/11	-4/1	-2/5
<b>STI</b>												
Mean T	0	177.5	61.2	691.7	7.2	97.1	1.2	8.6	5	37.1	0	13.5
Mean C	0	0	148.4	186	27.3	43.6	6	11.6	7.8	19.9	0	0
IC95	0/0	152/203	-133/-45	216/834	-36/-6	4/113	-11/1	-17/17	-14/8	-8/45	0/0	0/41
<b>Nursing, hospi</b>												
Mean T	0	137.7	282.1	359.7	44.5	96.1	5	15	10.1	14.1	2.3	4.5
Mean C	0	0	297.3	432.1	59.6	75.3	3.7	9.5	9.9	22.7	4.1	1.8
IC95	0/0	131/144	-57/30	-127/-16	-27/-4	7/35	-2/5	-2/13	-5/6	-16/-2	-5/2	-1/7

Table 7.17: Average costs of health care services and technical equipment for twelve months (per month, per patient)

	Interv.		Nurs.		Phys.		Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>														
Mean T	0	171	6	148.9	13.2	45.2	2	6.1	1.1	6.2	2.2	3.7		
Mean C	0	0	3.8	38	12.1	27.2	0.5	3	1.1	3.3	0.9	5.3		
IC95	0/0	166/175	1/3	90/132	-1/4	13/24	1/3	1/5	-1/1	1/5	0/2	-4/2		
<b>Nursing</b>														
Mean T	0	160.9	354.3	490	50.4	72.7	9.6	13.8	11.2	18.2	1.9	2.6		
Mean C	0	0	261	476.1	44.5	65.6	6.9	6.8	11.8	17.9	2.1	3.1		
IC95	0/0	157/165	72/117	-25/53	1/11	0/15	-1/6	4/11	-3/1	-3/3	-1/1	-2/1		
<b>Hospi</b>														
Mean T	0	146.3	4.1	133.8	9.5	52.5	1.7	8.8	2.1	8.2	1.4	2.7		
Mean C	0	0	3.8	65.2	15.6	30.3	2.8	7.4	0.5	2.5	1.3	2		
IC95	0/0	140/152	-2/2	35/110	-10/-2	13/30	-3/0	-3/6	0/4	2/10	-2/2	-2/3		
<b>STI</b>														
Mean T	0	158.7	151.9	802.5	19.2	101.3	3.2	6.4	3.1	23.3	0	26.8		
Mean C	0	0	101.5	195.8	25.5	43.1	4.1	12	7.2	14.4	0	0		
IC95	0/0	129/186	1/105	292/974	-20/5	4/123	-7/5	-15/5	-9/-1	-5/24	0/0	7/54		
<b>Nursing, hospi</b>														
Mean T	0	131.1	281	356.1	44.1	76.7	7.2	14	7.9	13.2	2.5	3.4		
Mean C	0	0	196.2	430.5	40.4	72.3	2.4	11.2	7.1	19	2.1	2.3		
IC95	0/0	124/138	49/121	-131/-14	-7/15	-9/18	0/12	-3/9	-3/5	-12/-1	-2/2	-1/4		

Table 7.18: Average costs of other health care services for six months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef
<b>No event</b>												
Mean T	2.3	7.6	1.6	22.6	37.9	18.8	29.1	1.8	2.3	859	1263	
Mean C	1.4	4.3	0	3.8	31.7	18.4	23.7	2.2	2.4	520.9	376.6	
IC95	-1.1/3	-1.2/8	0.6/3	12.3/26	-9.6/22	-1.8/3	2.7/8	-0.9/0	-0.8/1	212.5/469	731.3/1047	
<b>Nursing</b>												
Mean T	10.8	15.3	8.2	38.6	68.3	39.3	42.3	2.3	2	1150.3	1318.4	
Mean C	11.4	18.2	0.3	11.9	43.8	43.1	44.7	2.7	2.4	1043.8	809.2	
IC95	-5.9/4	-9.6/4	5.1/11	18.1/36	7.8/42	-6.8/-1	-6.4/1	-1/0	-0.9/0	-26.8/227	366/666	
<b>Hospi</b>												
Mean T	0	4	0.8	35.7	60.5	22	34.3	1.1	1.7	1657.4	1641.7	
Mean C	0	3.6	0.6	33.7	114	19.8	27.4	0.9	2	1522.5	1184.7	
IC95	0/0	-9.1/7	-1.2/2	-16.4/20	-97.2/-12	-0.9/5	1.1/13	-0.4/1	-1.1/1	-73/344	105.4/806	
<b>STI</b>												
Mean T	0	6.3	166.3	32.5	255.3	5	47.5	0.9	4	1329.7	842.3	
Mean C	51.3	68.2	182.2	257.8	592.8	19.4	20.3	0.1	1.3	208	491.6	
IC95	-125.9/0	-146.7/6	-119/81	-398/-71	-614.1/-94	-22.9/-7	5.5/51	-0.4/3	-1.3/10	389.2/1899	-163.3/1068	
<b>Nursing, hospi</b>												
Mean T	2.7	4.4	0.4	73.8	102.5	43.9	45.5	1.5	1.7	1816.8	2457.2	
Mean C	0.9	6.1	0.1	49.3	87.3	44	45.8	1.6	1.2	2117.5	1440.3	
IC95	-0.8/6	-9.2/5	-0.1/1	-0.2/49	-25.6/61	-5.2/5	-7/7	-0.8/1	-0.1/1	-576.7/-53	569.2/1514	

Table 7.19: Average costs of other health care services for twelve months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef
<b>No event</b>												
Mean T	2.1	8.4	1.1	23.6	71.5	19.5	31.8	1.8	2.3	591.8	1074.4	
Mean C	0.8	4.7	0.1	8.2	43.9	11.8	23.4	1.5	2.2	512.4	438.2	
IC95	-0.3/3	-1.1/8	0.1/2	9.2/22	8.1/47	6.2/9	5.7/11	0/1	-0.6/1	6/153	485.3/777	
<b>Nursing</b>												
Mean T	8.9	16.2	6.7	39.2	143.3	39.3	42.8	2.1	2	925.2	1258.4	
Mean C	7.7	18.4	0.2	22.6	69.7	30.3	43.2	1.8	2.2	1007.2	881.9	
IC95	-3/5	-9.3/4	4.6/9	8.4/25	49.5/100	6.3/12	-3.8/3	-0.1/1	-0.8/0	-171/7	232.5/527	
<b>Hospi</b>												
Mean T	0	3.3	1	40.4	101.7	20.3	33.8	1	1.6	864.8	1356.6	
Mean C	0	3.9	0.3	31.1	137.9	12	27.2	0.7	1.7	861	931.6	
IC95	0/0	-9/6	-0.6/2	-8.8/29	-86.3/10	6/11	0.2/13	-0.1/1	-0.6/1	-113.9/117	99.9/745	
<b>STI</b>												
Mean T	0.5	0.9	167.1	35	340.6	10.2	58.1	2	4.4	1149.1	770.3	
Mean C	34	68.4	186.7	230.3	656	13.2	21.6	0.3	1.8	411	434	
IC95	-80.3/0	-153.1/0	-100.7/49	-351.4/-63	-604.3/-17	-9/3	14.8/61	-0.1/5	-1.1/8	101.8/1332	-133.3/941	
<b>Nursing, hospi</b>												
Mean T	2.1	5.4	0.6	68.4	179.5	41.1	45	1.4	1.4	1036.7	2171.8	
Mean C	0.5	6	0.1	52.6	136.2	28.1	44.8	1	1.5	1296.6	1259.8	
IC95	-0.2/4	-8.6/6	-0.2/1	-7.7/39	-14.7/98	8.8/17	-7.3/8	-0.1/1	-0.8/1	-429.8/-96	490.6/1334	

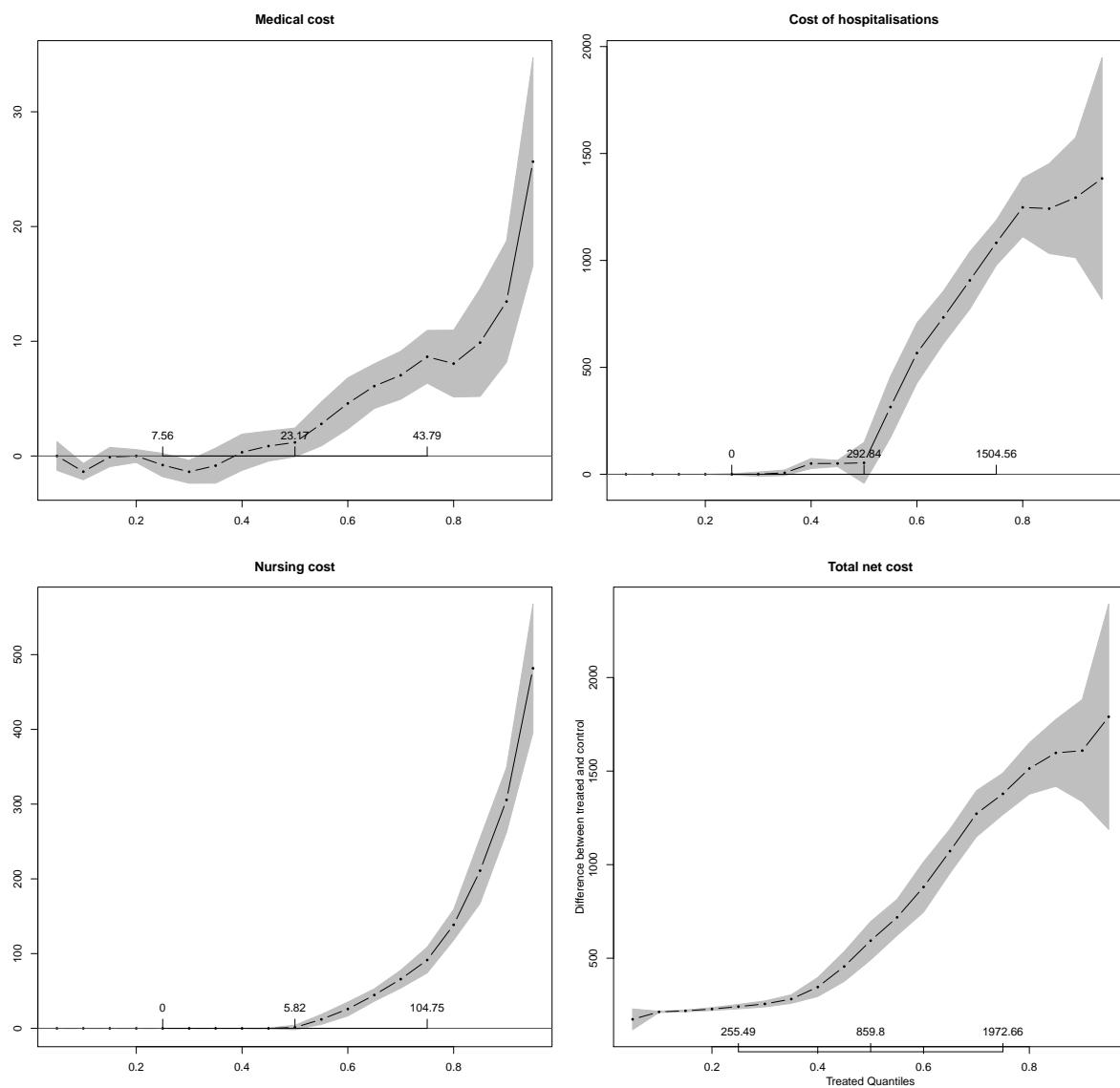


Figure 7.11: Graphs of the differences of costs between treated and control, **for the NHDI, for six months, for the group of No Event**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

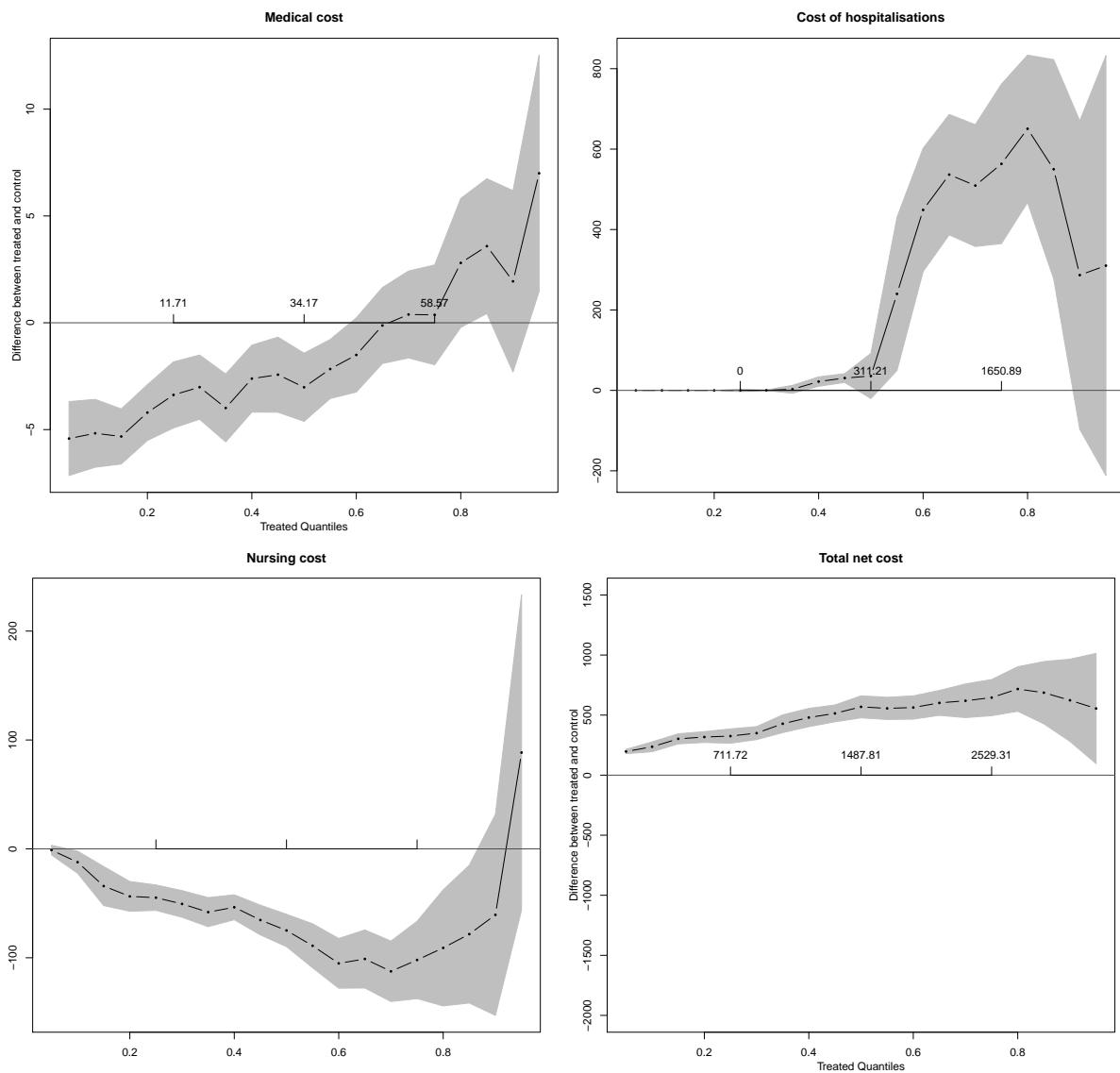


Figure 7.12: Graphs of the differences of costs between treated and control, **for the NIHDI, for six months, for the group of Nursing**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

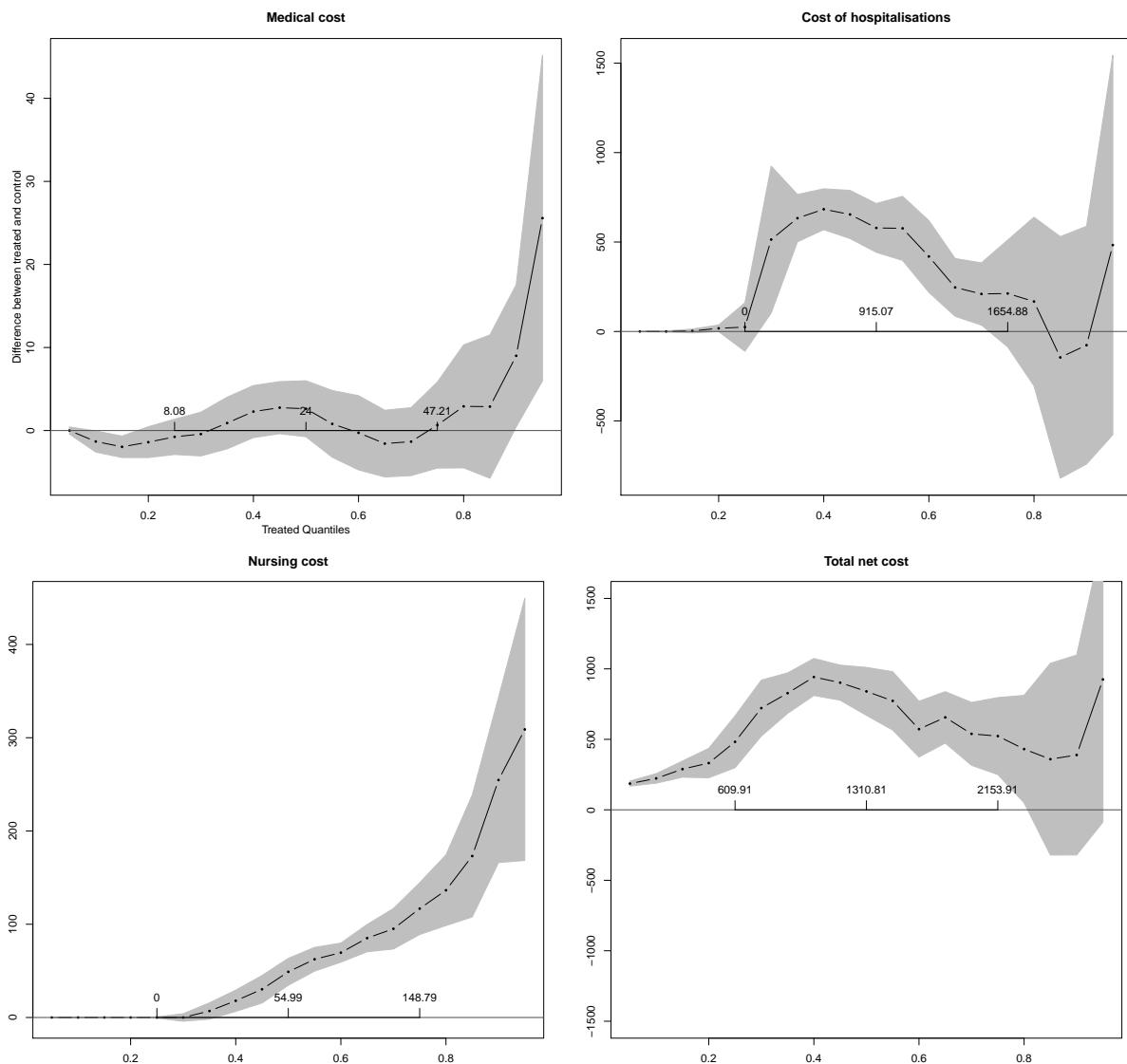


Figure 7.13: Graphs of the differences of costs between treated and control, **for the NIHDI for six months, for the group of Hospi** (per month, per patient), adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

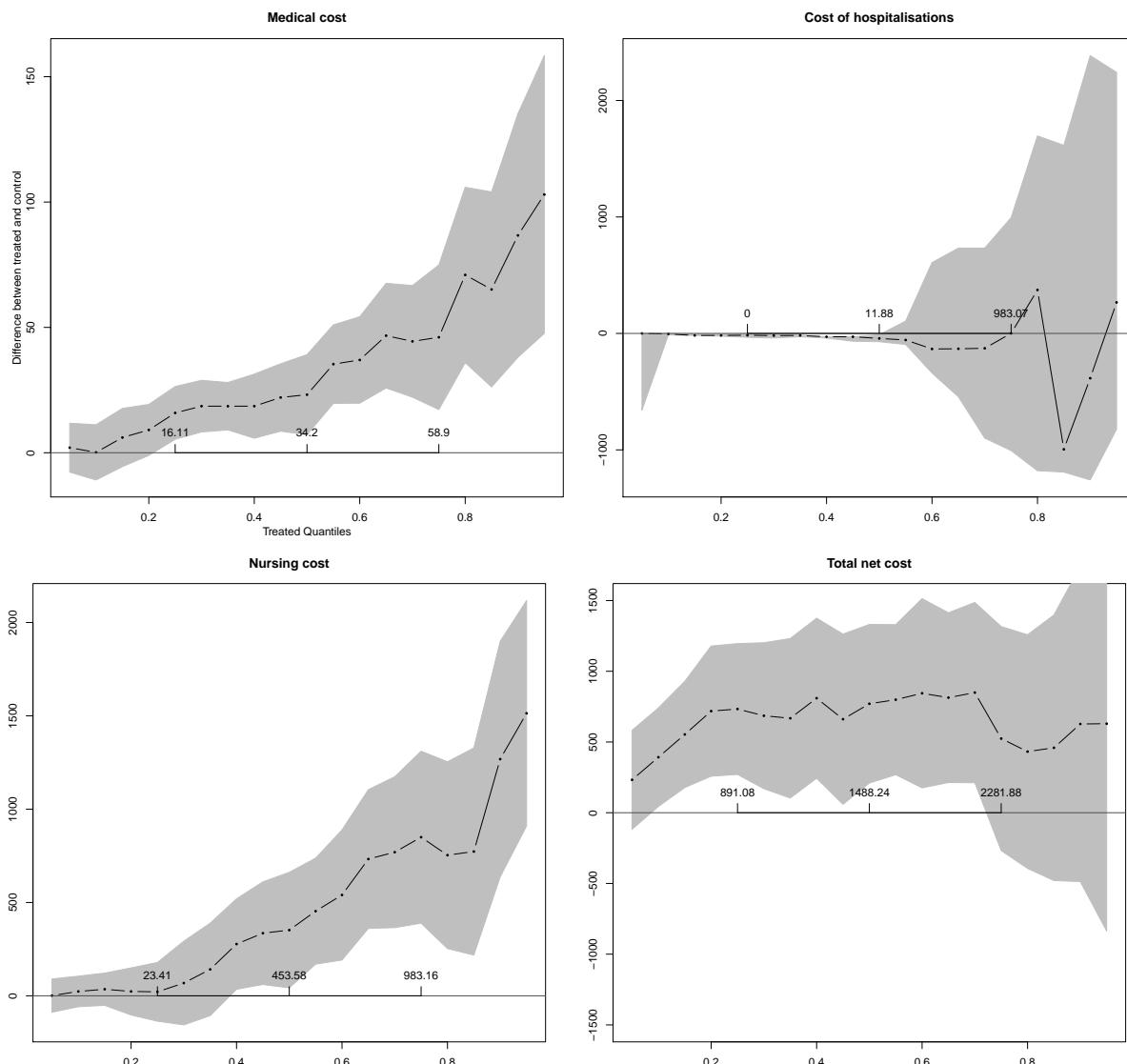


Figure 7.14: Graphs of the differences of costs between treated and control, **for the NIHDI for six months for the group of STI** (per month, per patient), adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

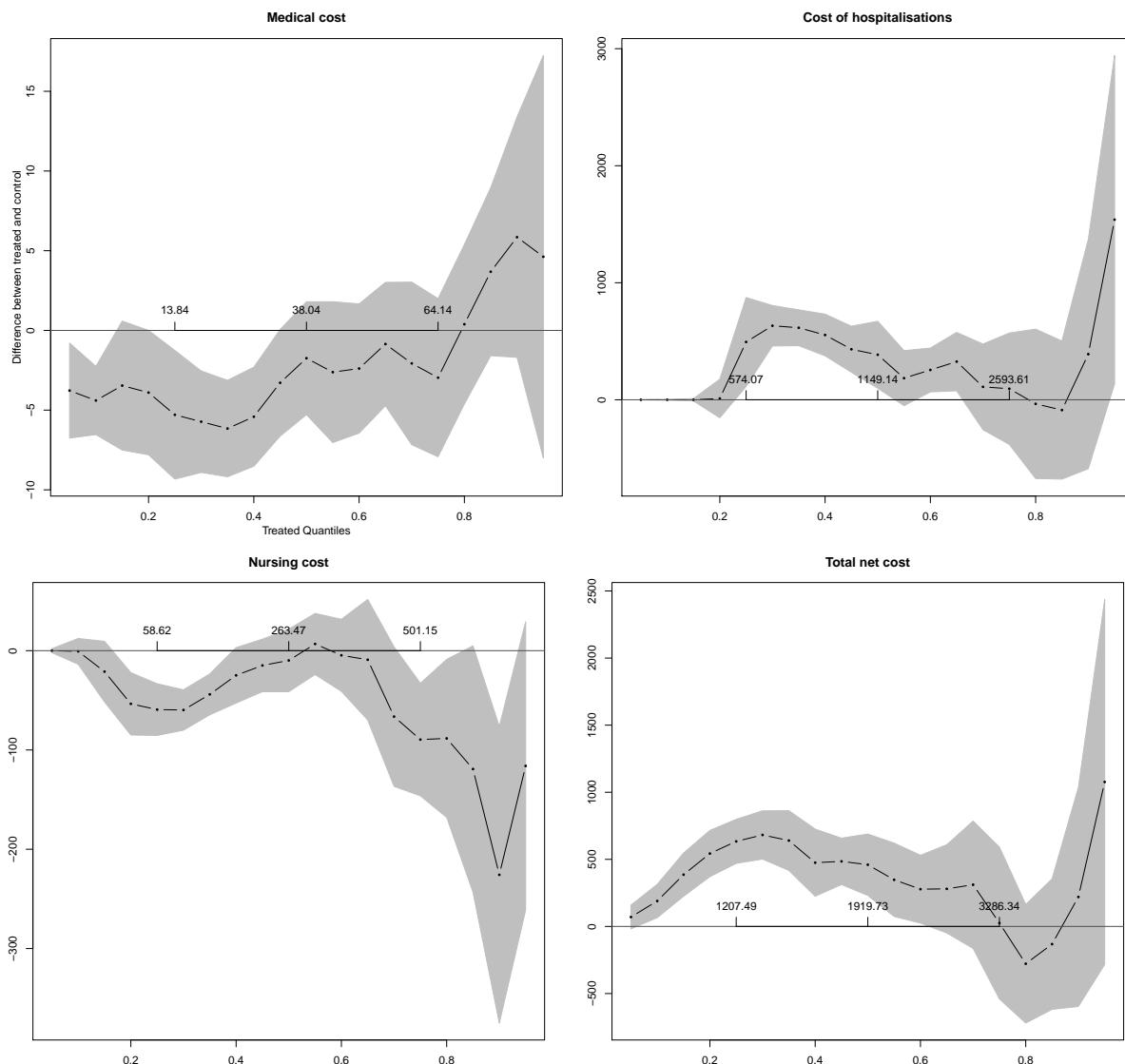


Figure 7.15: Graphs of the differences of costs between treated and control, **for the NIHDI, for six months, for the group of Nursing, Hospi,** adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

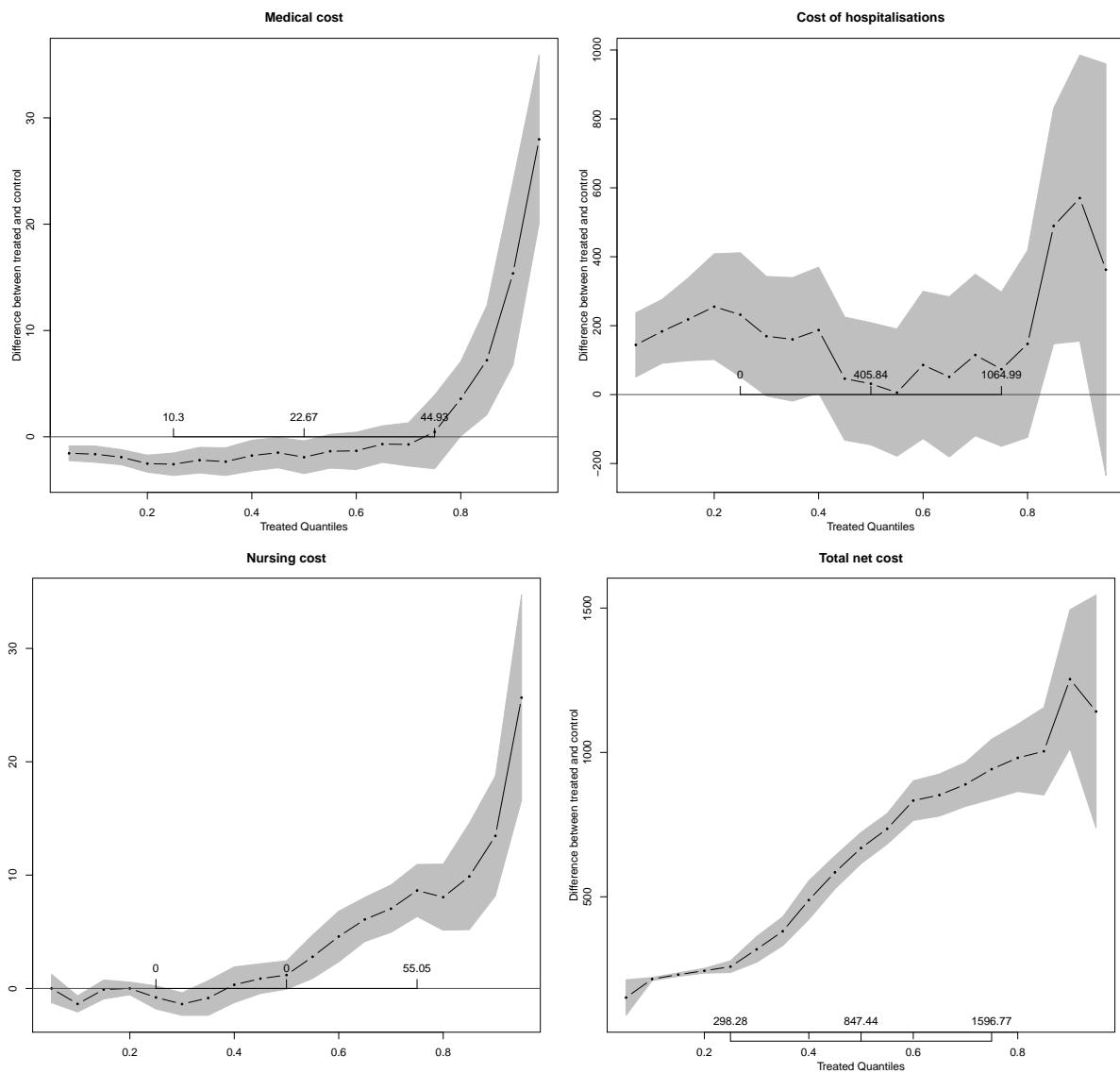


Figure 7.16: Graphs of the differences of costs between treated and control, **for the NIHDI, for twelve months, for the group of No Event**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

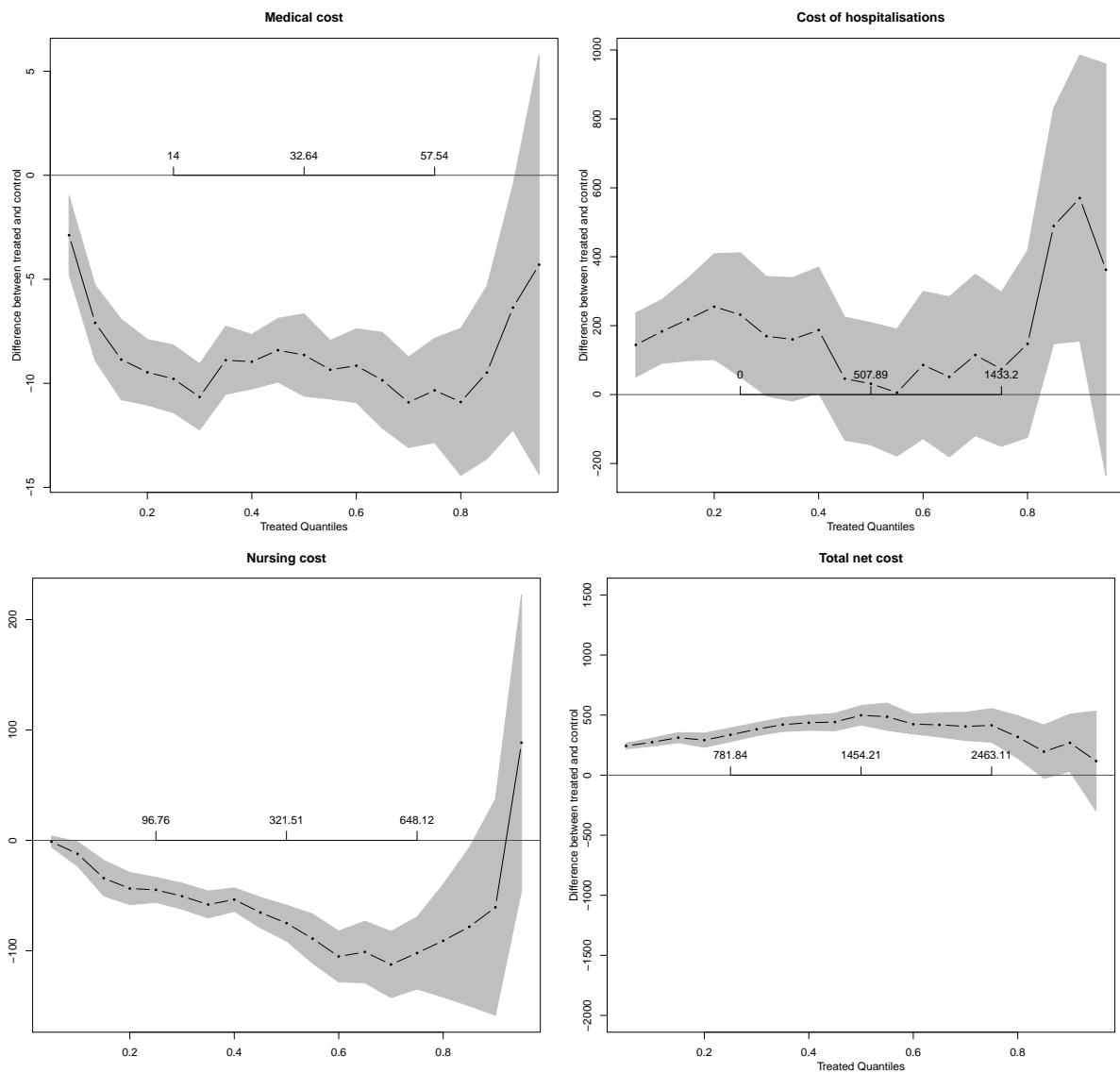


Figure 7.17: Graphs of the differences of costs between treated and control, **for the NHDI, for twelve months, for the group of Nursing**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive

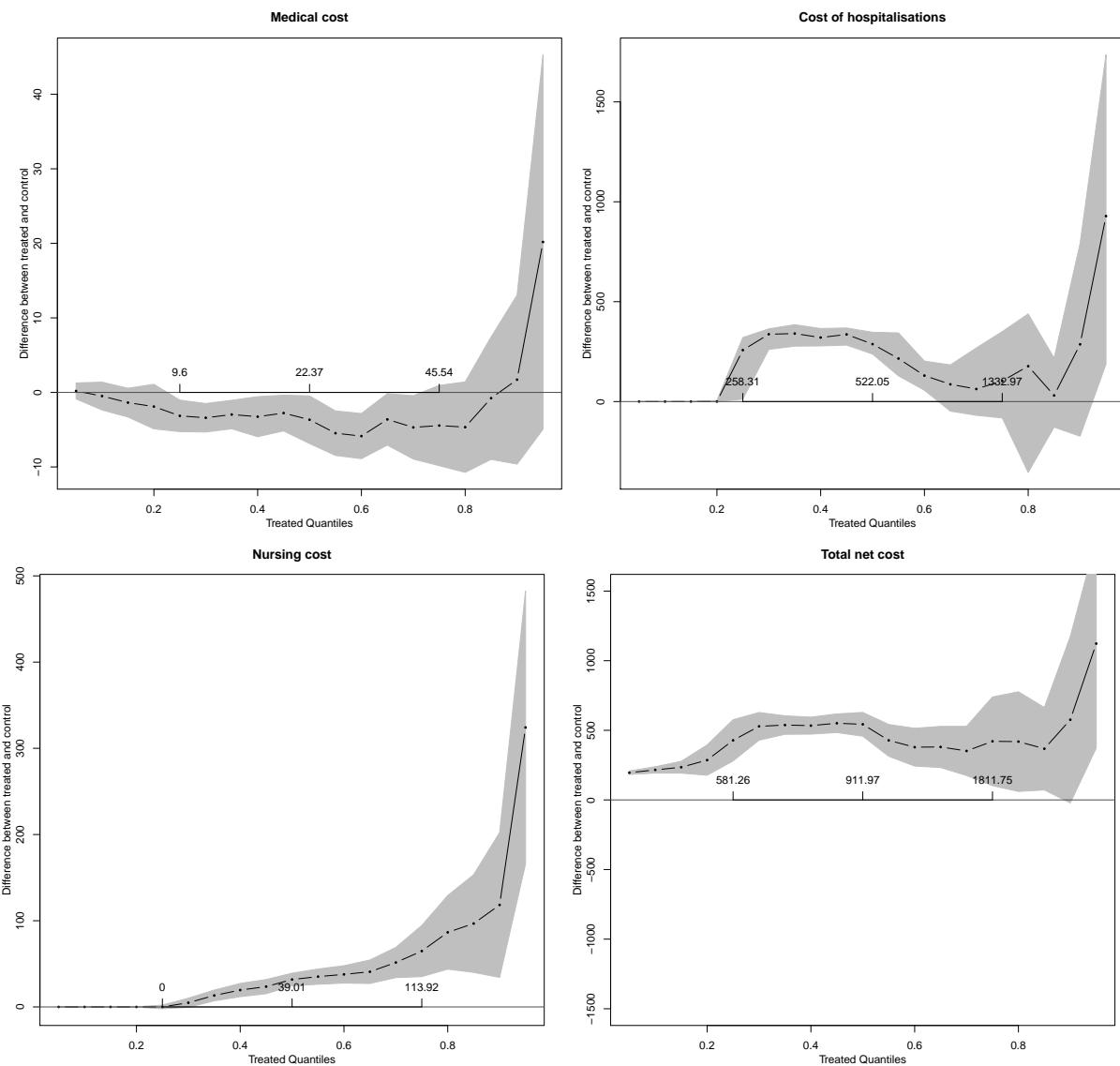


Figure 7.18: Graphs of the differences of costs between treated and control, **for the NIHDI, for twelve months, for the group of Hospi**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

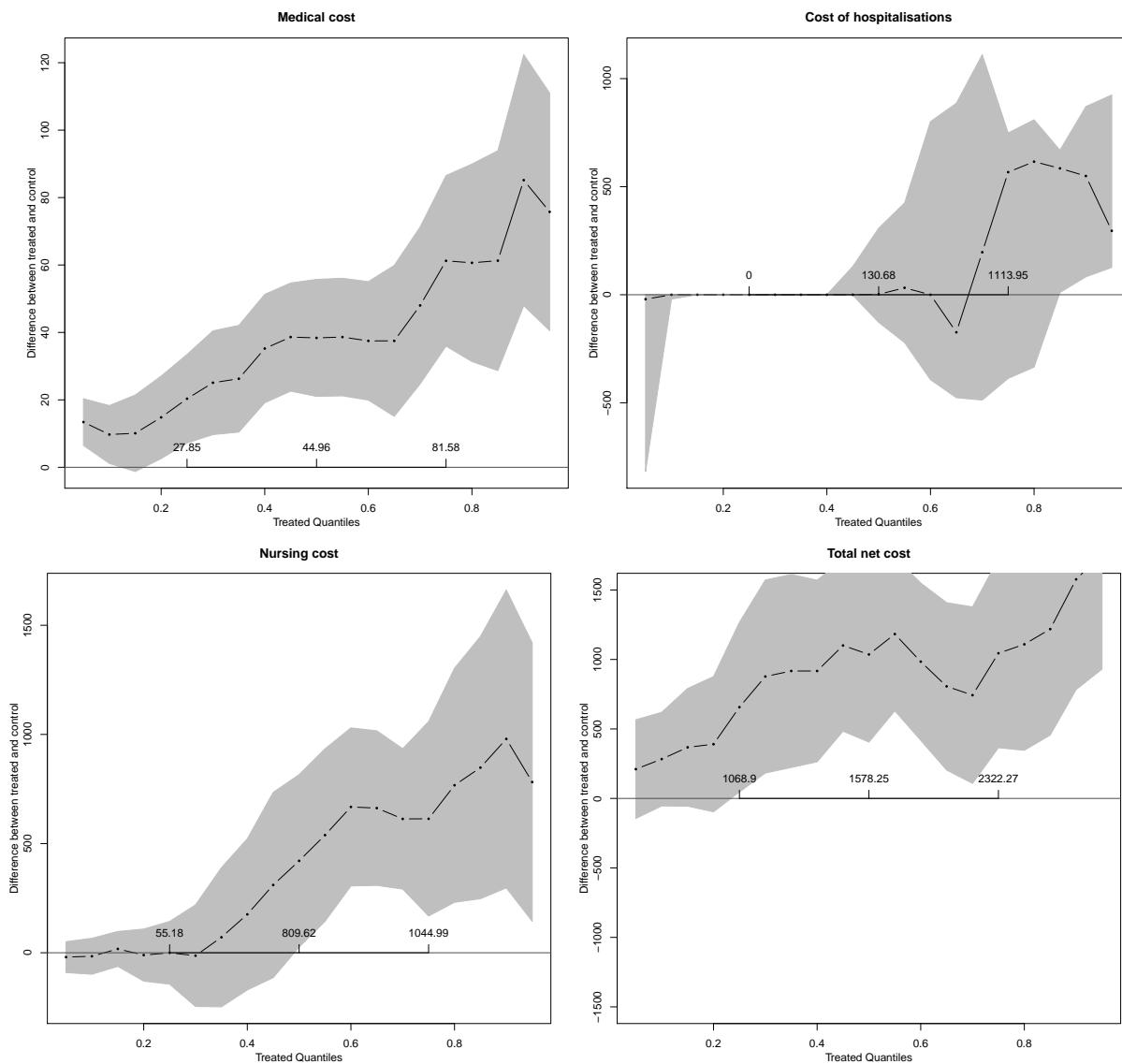


Figure 7.19: Graphs of the differences of costs between treated and control, **for the NIHDI, for twelve months, for the group of STI**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

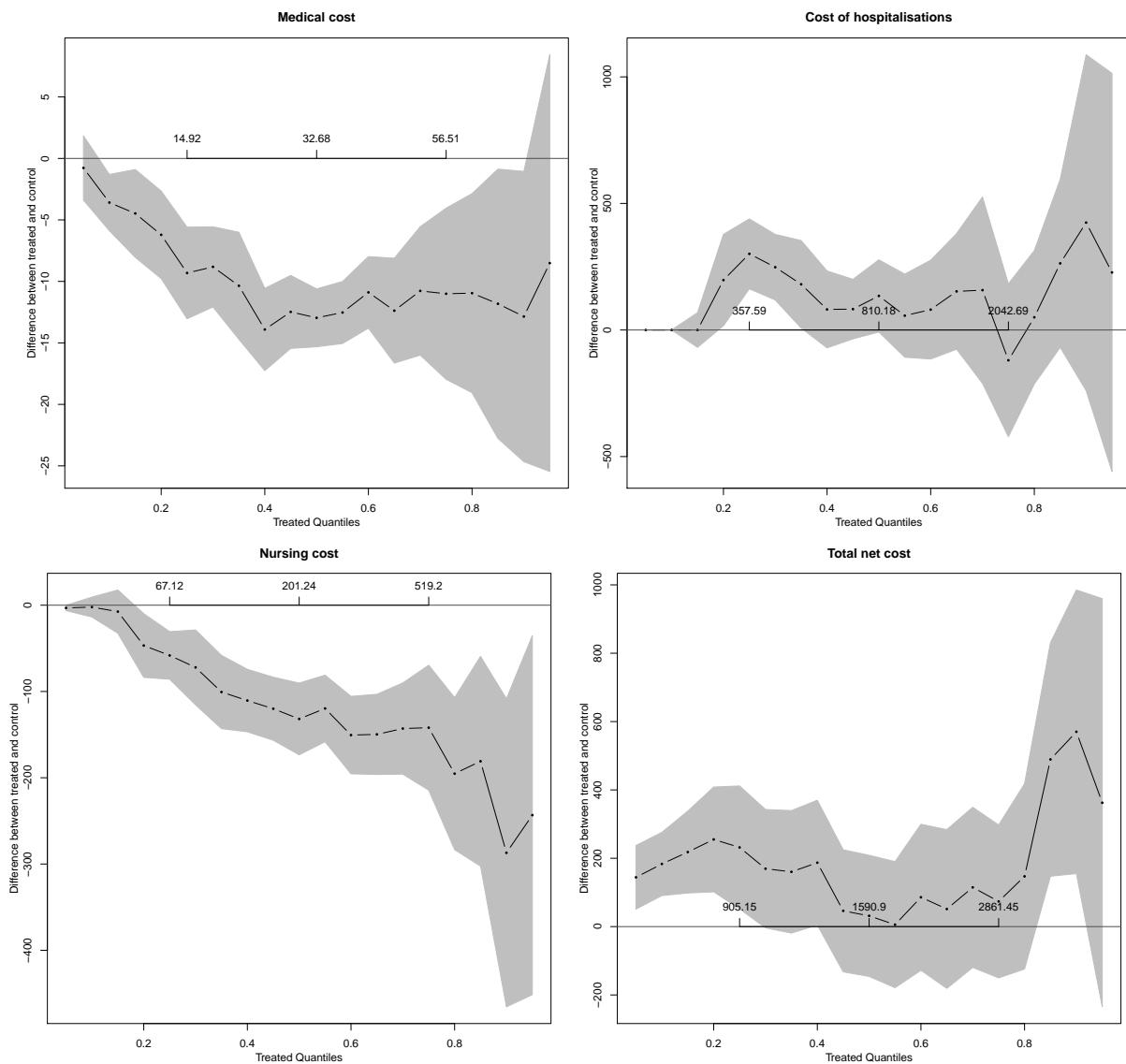


Figure 7.20: Graphs of the differences of costs between treated and control, **for the NIHDI, for twelve months, for the group of Nursing, Hospi**, adjusted according to the proxy of the socio economic status, the cost before intervention and the number of days alive (per month, per patient)

### 7.1.5 Health care costs linked to disability for the patients

Table 7.20: Average costs of health care services and technical equipment for six months (per month, per patient)

	Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>										
Mean T	0	2.6	3.1	11.1	0	0.1	0	0	2.3	3
Mean C	0.1	0.4	4.5	6.8	0	0	0	0	1.8	7.3
IC95	-0.1/0	1.3/3.2	-2.2/-0.6	2.6/6	-0.1/0	0/0.2	0/0	0/0	-1.8/2.9	-8.4/0.3
<b>Nursing</b>										
Mean T	1.6	3.7	9	12.8	0.3	0	0	0	1.5	0.8
Mean C	1.5	1.9	12.5	12.3	0.1	0	0.1	0.1	3.7	3.8
IC95	-0.6/0.9	0.5/3	-4.9/-2.3	-1/2	-0.1/0.7	0/0	-0.1/0	-0.2/-0.1	-4.1/-0.1	-5.1/-0.8
<b>Hospi</b>										
Mean T	0.1	1.6	2.9	15.6	0	0	0	0	0.7	4.8
Mean C	0.1	1.7	6.5	9.7	0	0	0	0	0.4	1.9
IC95	-0.1/0.2	-2/1.9	-5.3/-1.9	3.1/8.3	0/0	0/0.1	0/0	0/0	-1/1.8	-2.9/10.2
<b>STI</b>										
Mean T	0	28.3	0.8	14.1	0	0	0	0	0	12.1
Mean C	1.8	1.8	4.8	7.8	0	0.1	0	0	0	0
IC95	-5.2/0	7.5/48.1	-7.8/-1.2	-1/13.9	0/0	-0.3/0	0/0	0/0	0/0	0/48.5
<b>Nursing, hospi</b>										
Mean T	1	2.7	8.6	16.2	0.1	0	0	0	1.3	3.7
Mean C	1.3	0.6	11.2	15.2	0	0.3	0	0	1.8	1
IC95	-1.3/1.1	0.4/4	-5/0.1	-2.2/3.9	0/0.2	-0.7/0	0/0	0/0.1	-2.9/1.6	-1/7.1

Table 7.21: Average costs of health care services and technical equipment for twelve months (per month, per patient)

	Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>										
Mean T	0.2	3.2	2.9	9.7	0.1	0.2	0	0	1.7	3.4
Mean C	0.1	0.5	2.8	6.8	0	0	0	0	1	5.5
IC95	0/0.2	1.7/4.1	-0.4/0.6	1.3/4.4	-0.1/0.4	0/0.5	0/0	0/0	-0.5/2.1	-5.3/1.5
<b>Nursing</b>										
Mean T	1.9	4	8.9	12.3	0.3	0.3	0	0	1.9	1.6
Mean C	0.9	1.8	8.4	12.2	0	0	0	0.1	2.4	3.5
IC95	0.4/1.8	1.1/3.5	-0.7/1.6	-1.5/1.7	0/0.5	0/0.7	-0.1/0	-0.1/0	-2/0.9	-3.5/-0.2
<b>Hospi</b>										
Mean T	0.1	1.5	2.3	11.2	0	0	0	0	1.5	4.1
Mean C	0.1	1.3	3.7	7.7	0	0	0	0	0.2	2.8
IC95	-0.1/0.1	-1.4/2	-2.5/-0.4	1.4/5.5	0/0	0/0	0/0	0/0	-0.2/3.4	-2.9/5.8
<b>STI</b>										
Mean T	4.8	37	4.8	13.6	0	0	0	0	0	16
Mean C	0.9	2.1	4.1	8.7	0	0	0	0	0	0
IC95	0.2/8.1	9/65.6	-1.9/3.7	-4.3/13.3	0/0	-0.1/0	0/0	0/0	0/0	0.5/38.8
<b>Nursing,hospi</b>										
Mean T	1.1	2.5	7.8	13.3	0	0.1	0	0	2.3	3.4
Mean C	1	0.6	7	15.7	0	0.1	0	0	0.9	0.6
IC95	-0.9/1.4	0.3/3.8	-1.1/3.3	-5.2/0.6	0/0.1	-0.3/0.2	0/0	0/0	-0.4/3.8	0.1/6.4

Table 7.22: Average costs of other health care services for six months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef
<b>No event</b>												
Mean T	0.8	2.3	1.4	29.4	34.1	3.4	5.3	0.6	0.6	53.2	81.3	
Mean C	0.4	0.7	0	3.6	32.2	3.7	4.6	0.7	0.8	47.9	30.3	
IC95	-0.3/1.1	0.4/2.8	0.5/2.5	19.2/33.4	-15.9/18.1	-0.7/0.1	0/1.2	-0.3/0	-0.4/0	-7.1/19.8	38.8/62.2	
<b>Nursing</b>												
Mean T	3.6	4.9	7.3	41.2	60.6	5.8	5.5	0.5	0.4	61.4	69	
Mean C	3.6	4.9	0.4	12.3	41.7	6.2	5.9	0.7	0.5	65.4	36.4	
IC95	-1.8/1.8	-2.1/2.3	4.2/9.6	19.1/37.4	2.3/34.7	-1/0.1	-1.1/0.2	-0.3/-0.1	-0.3/0	-15.2/6.7	23.1/42.6	
<b>Hospi</b>												
Mean T	0	1.3	0.6	52.3	54.8	4.2	5.6	0.3	0.5	144.3	112.9	
Mean C	0	0.3	0.5	34.3	115.8	4.3	5.9	0.5	1.2	137.3	93.8	
IC95	0/0	-0.3/2.5	-1.5/1.3	-3.2/38.8	-102.5/-20	-0.9/0.8	-1.6/0.9	-0.4/0	-1.3/-0.2	-30.8/47.4	-6.9/47	
<b>STI</b>												
Mean T	0	1.9	145	31.7	200.8	0.3	6	0.1	0.5	11.1	2	
Mean C	16.4	21.9	194.1	256.4	597.3	3	2.9	0.1	0.4	26.9	47.4	
IC95	-38.6/0	-49.6/1.7	-164.4/46.4	-389.1/-87.1	-623.4/-170.9	-4.1/-1.5	0.3/6.4	-0.2/0.3	-0.6/1	-46.8/11.5	-105.2/-7.7	
<b>Nursing, hospi</b>												
Mean T	0.9	1.4	1.3	82.3	81.3	6	5.8	0.4	0.4	102.9	116.3	
Mean C	0.3	1.4	0.1	42.7	77.1	7.7	7.1	0.3	0.3	123.4	87.6	
IC95	-0.3/1.8	-1.7/1.8	-0.1/3.8	15.5/63.2	-30.8/37.7	-2.8/-0.5	-2.7/0.1	-0.1/0.3	0/0.3	-40.6/-2.3	-0.9/59.1	

Table 7.23: Average costs of other health care services for twelve months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Bef	Aft	Bef	Aft	
<b>No event</b>												
Mean T	1.3	5.3	0.9	28.7	62.8	3.5	5.4	0.6	0.5	36	64.3	
Mean C	0.5	1	0.1	8.2	43.7	2.4	4.6	0.5	0.7	45.2	35.9	
IC95	-0.2/2.1	1.6/7.1	0.1/1.7	13.3/28.2	0.1/38.4	0.8/1.4	0.2/1.3	0/0.2	-0.4/0	-16.7/-1.2	18.2/38	
<b>Nursing</b>												
Mean T	5.8	10.3	5.9	39.3	126.2	5.8	5.3	0.5	0.4	50.6	64	
Mean C	4.9	8.3	0.2	22.1	66.3	4.3	5.6	0.5	0.5	65.8	43.8	
IC95	-1.6/3.8	-1.4/6.1	3.9/7.4	9.2/24.8	36.2/81.8	1/1.9	-0.9/0.3	-0.1/0.1	-0.3/-0.1	-23.4/-7	11.4/29.3	
<b>Hospi</b>												
Mean T	0	2.1	0.7	47.9	91	3.8	5.3	0.3	0.4	73.9	86.2	
Mean C	0	0.4	0.3	29	149.5	2.6	5.7	0.4	1	78.5	68.3	
IC95	0/0	-0.3/4.3	-0.5/1.6	1.1/37	-104.1/-12.5	0.6/1.8	-1.7/0.8	-0.4/0.1	-1.1/-0.2	-23/13.6	-2.6/39.5	
<b>STI</b>												
Mean T	0.3	4.7	149.5	31.8	278.6	1.4	7	0.3	0.5	6.6	3.4	
Mean C	21.6	37.4	225.5	223.1	642.8	2.1	3.2	0	0.7	36.4	32.4	
IC95	-51.1/0.3	-85.7/4.2	-170.1/6.7	-335.8/-69.6	-601.4/-121.2	-1.6/0.2	1.3/6.9	0/0.7	-1/0.7	-64.2/-1.6	-61.1/-6.9	
<b>Nursing, hospi</b>												
Mean T	1.3	3.4	1.5	68.2	144.8	5.7	5.6	0.4	0.3	56.5	100.9	
Mean C	0.3	1.9	0.2	47.7	128.4	4.9	6.5	0.2	0.3	72	76.2	
IC95	-0.1/2.4	-1.1/4.2	-0.3/3.9	-0.4/42.1	-32.1/67.5	-0.1/1.8	-2.2/0.6	0/0.3	-0.2/0.1	-25.9/-5.7	-2.7/53.7	

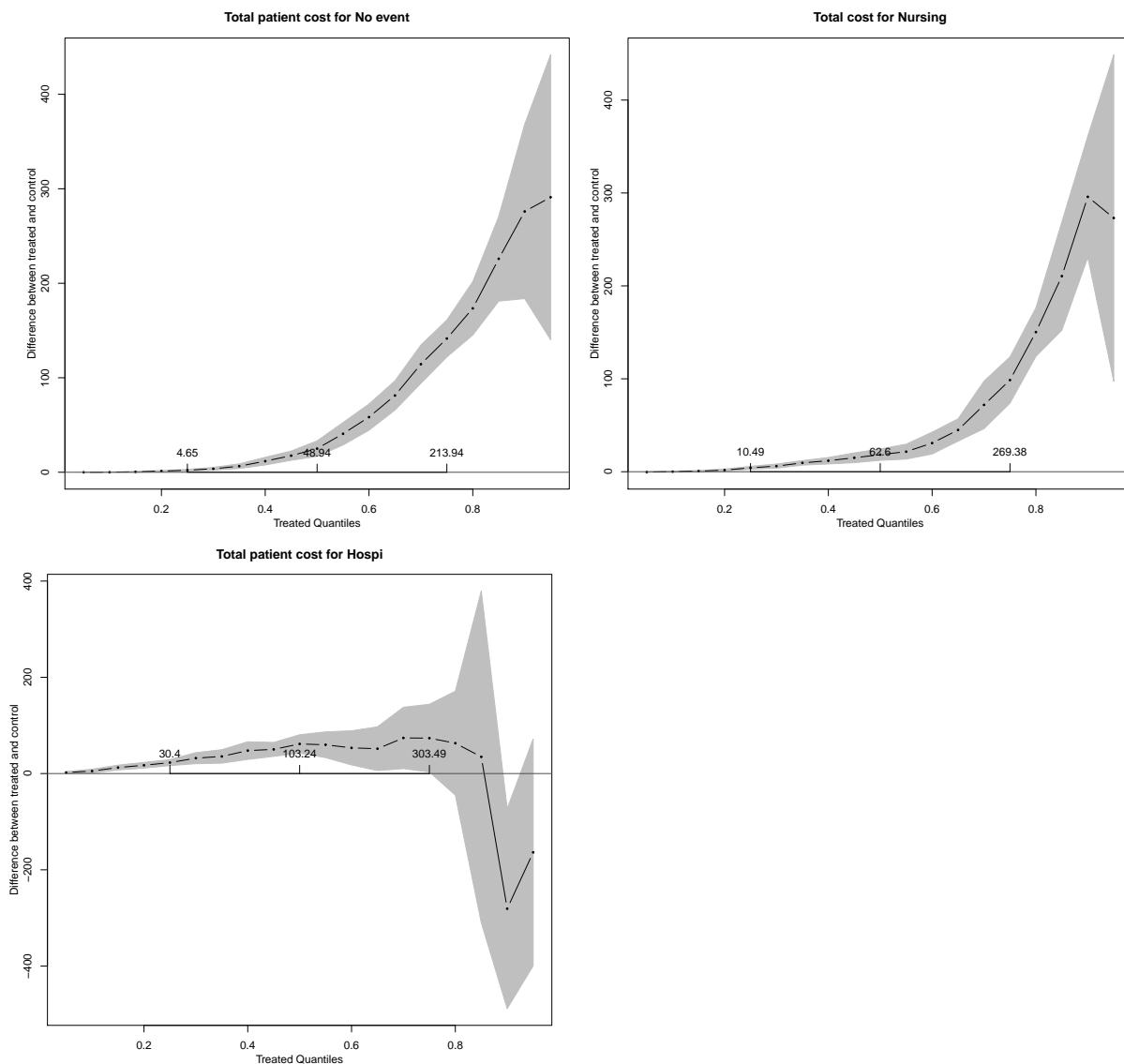


Figure 7.21: Graphs of the differences of the total cost for patients between treated and control, for six months, adjusted according to the proxy of the socio economic status and the number of days alive for the six months (per month, per patient)

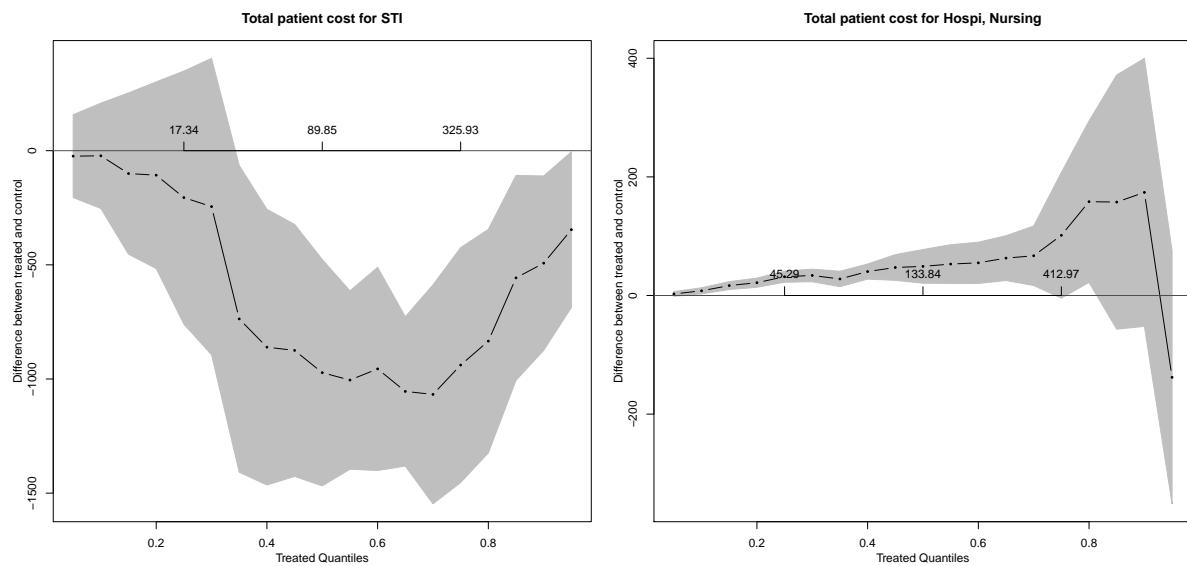


Figure 7.22: Graphs of the differences of the total cost for patients between treated and control, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

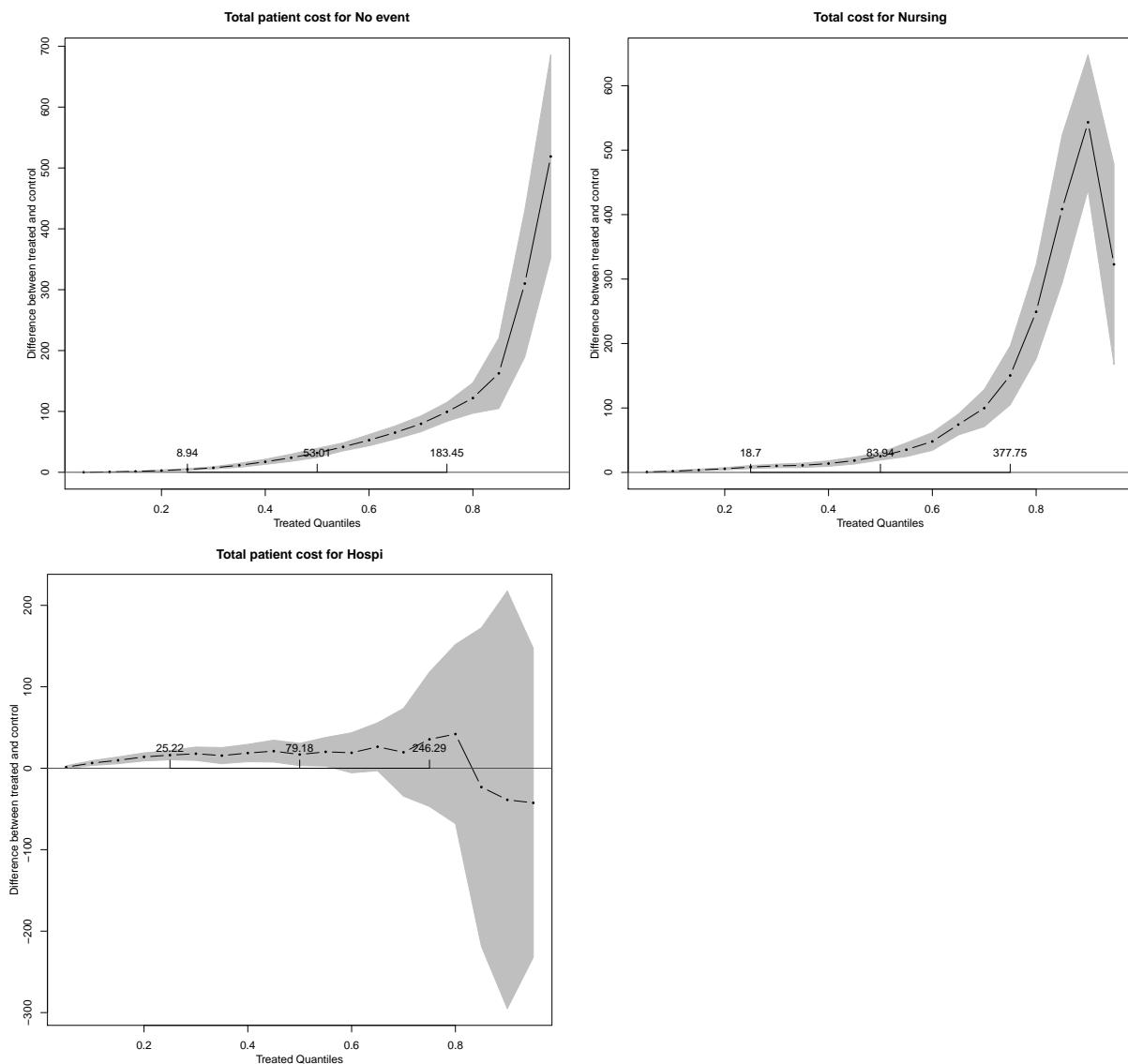


Figure 7.23: Graphs of the differences of the total cost for the patients between treated and control, for twelve months and adjusted according to the proxy of the socio economic status and the number of days alive for twelve months (per month per patient)

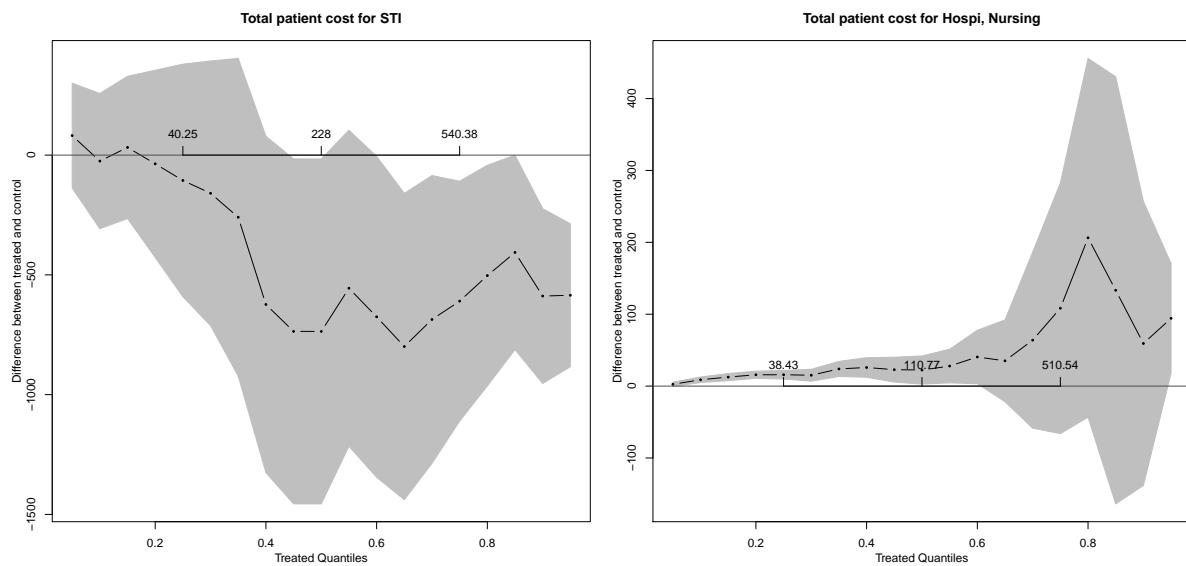


Figure 7.24: Graphs of the differences of the total cost for the patients between treated and control, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive for twelve months (per month per patient)

### 7.1.6 Cost differences for the stakeholders between treated and control

Table 7.24: Average cost differences between treated and control group for six months (per month, per patient) (adjusted according to the level of cost before intervention, socio economic proxy and deaths)

	NIHDI Home		NIHDI Home + hosp. + inter		All NIHDI + patients + regions	
	Diff mean adj.	IC95	Diff mean adj.	IC95	Diff mean adj.	IC95
No Event	220	168.6/279	1637	1330.3/1978.3	1736	1429/2132.3
Nursing	97	54.2/149.1	586	429/751.9	774	581.6/982
Hospi	217	146.8/308.5	832	420.8/1299.3	864	418.2/1344.1
STI or Nursing, Hospi	50	-14.3/121.6	730	369/1172.7	690	289.5/1144.9

Table 7.25: Average cost differences between treated and control group for twelve months (per month, per patient) (adjusted according to the level of cost before intervention, socio economic proxy and deaths)

	NIHDI Home		NIHDI Home + hosp. + inter		All NIHDI + patients + regions	
	Diff mean adj.	IC95	Diff mean adj.	IC95	Diff mean adj.	IC95
No Event	200	147.5/261.1	1143	942.7/1367.8	1329	1091.9/1620.8
Nursing	-8	-49.4/31	495	352.4/637.3	776	625.3/941
Hospi or STI or Nursing, Hospi	45	-0.5/90.3	589	387.9/814	630	388.6/912.6

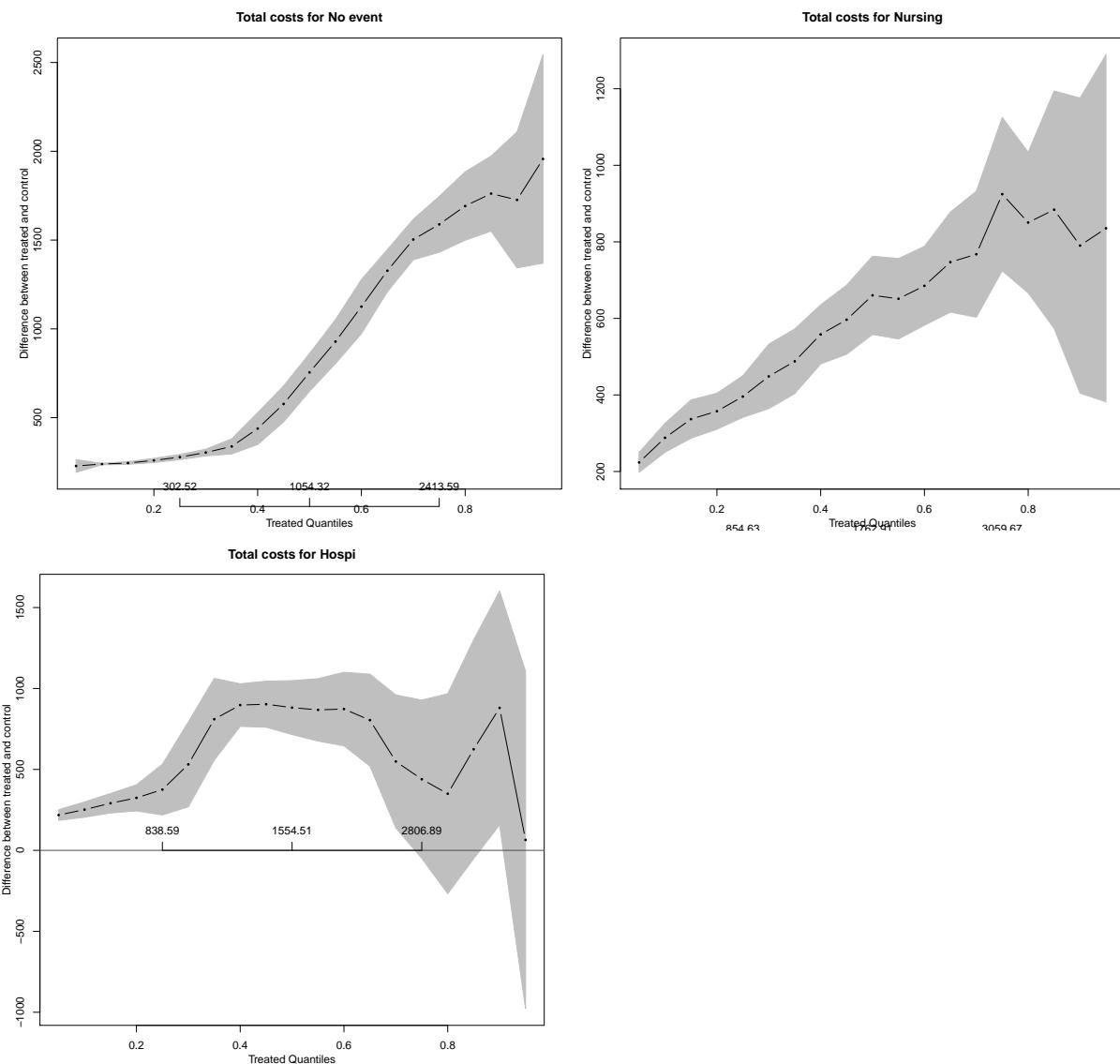


Figure 7.25: Graphs of the differences of the total cost for all stakeholders between treated and control, for six months and adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

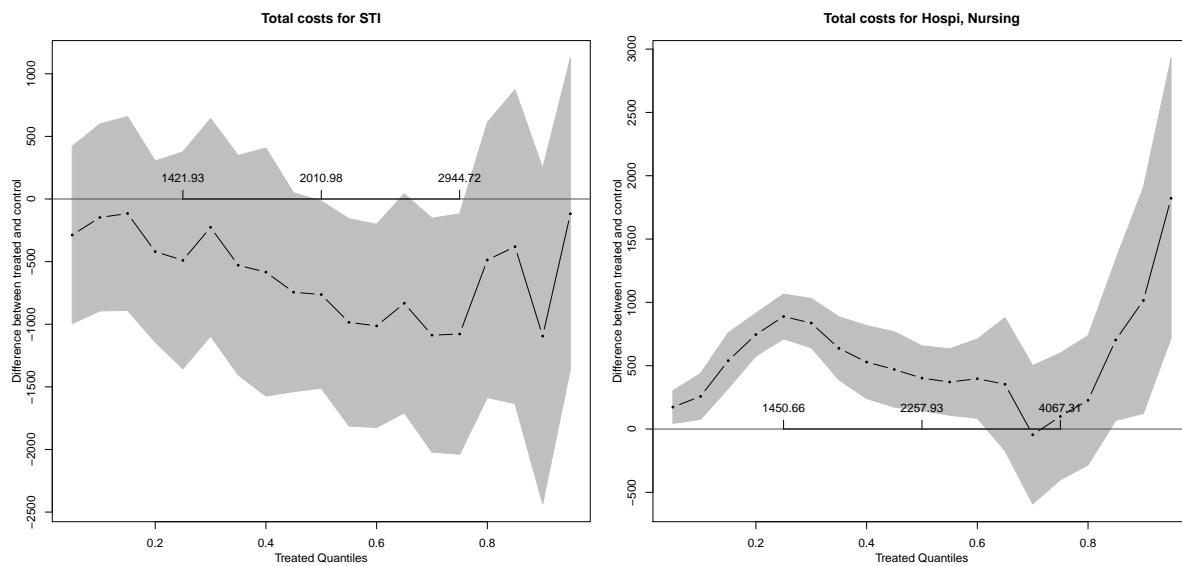


Figure 7.26: Graphs of the differences of the total cost for all stakeholders between treated and control, for six months and adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

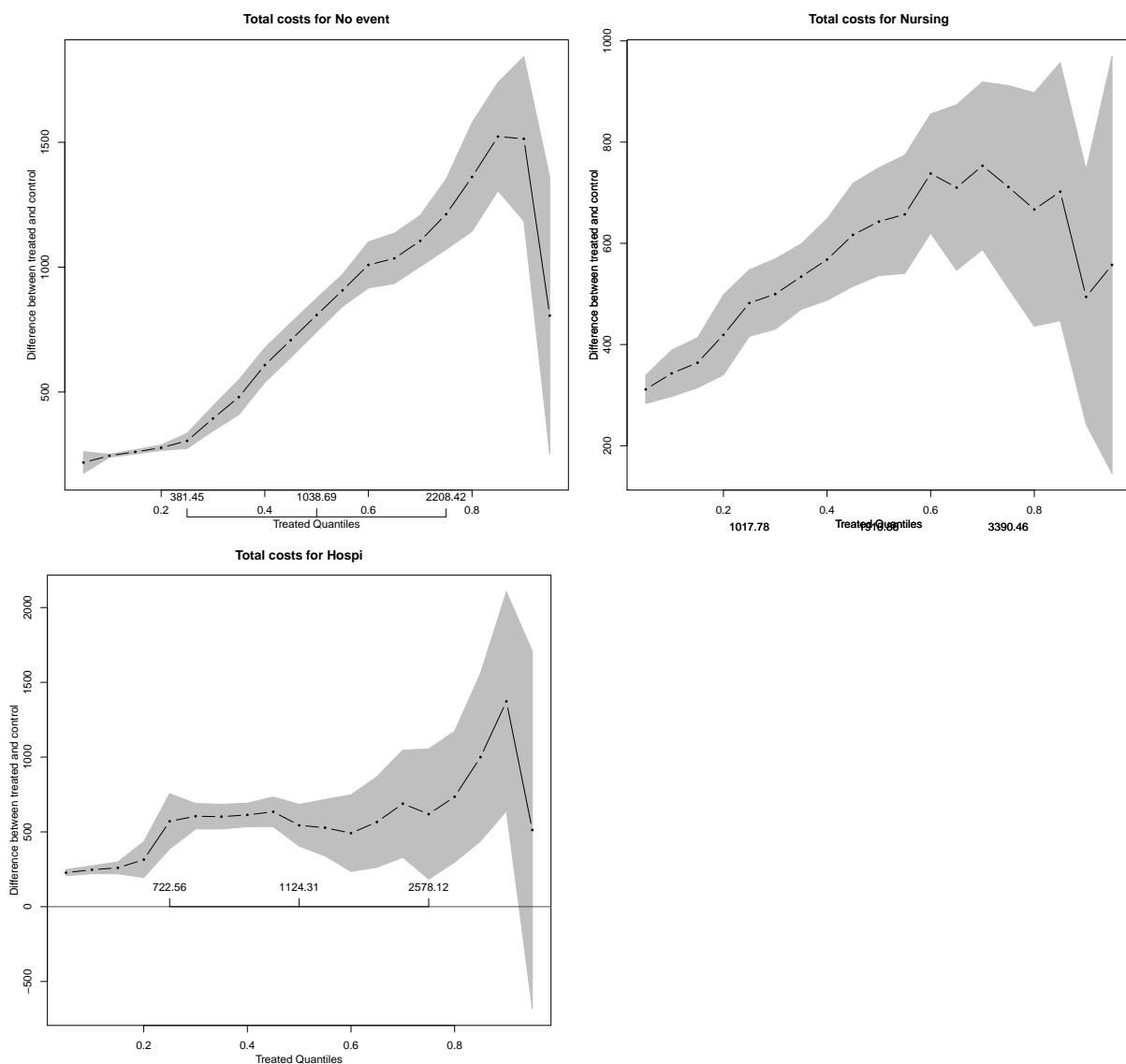


Figure 7.27: Graphs of the differences of the total cost for all stakeholders between treated and control, for twelve months and adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

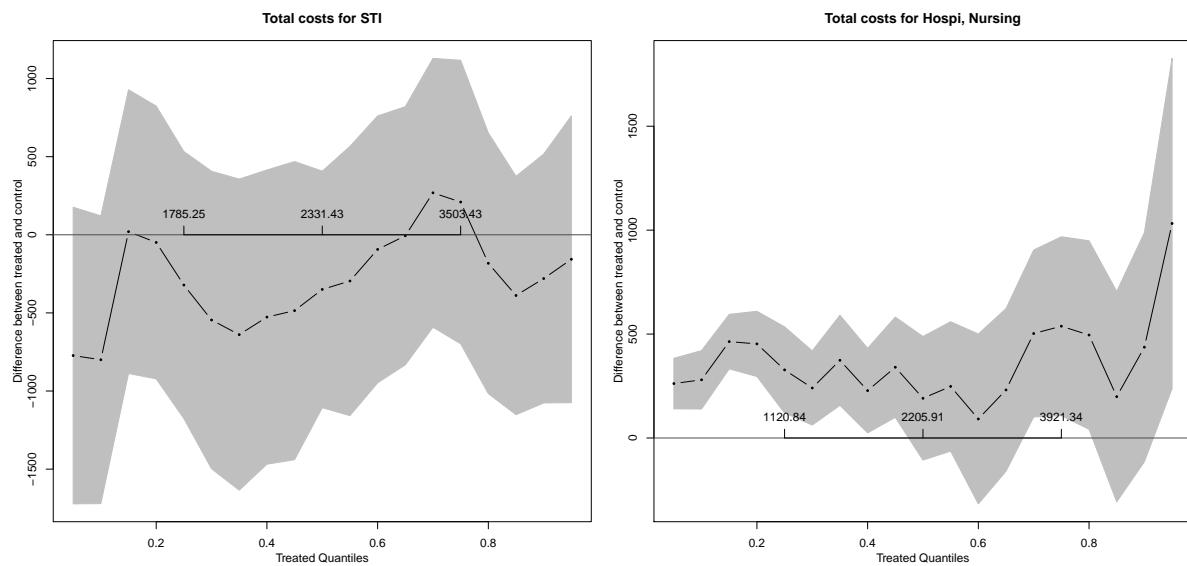


Figure 7.28: Graphs of the differences of the total cost for all stakeholders between treated and control, for twelve months and adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

### 7.1.7 Number of days at home and in residential care facilities for six months

Table 7.26: Average number of days for 6 months (per patient)

	Temp. NH		Hosp.		Def. NH		Days home		Days alive
	Bef	Aft	Bef	Aft	Aft		Bef	Aft	Aft
<b>No Event</b>									
Mean T	0.2	3.3	11.1	12	4.3		161	147.9	175.9
Mean C	0	0.5	7	4.4	3.8		173.3	172.7	181.1
Diff. TC. IC95	0.1/0.3	2/3.6	2.2/5.9	6.1/9.1	-1.5/2.3		-15.3/-9.3	-28.3/-21.4	-6.7/-3.5
<b>Nursing</b>									
Mean T	0.9	4.7	15.1	12.9	7.4		162	146.3	174.2
Mean C	0.1	1.4	13.5	10.2	5.2		166.8	163.8	180.1
Diff. TC. IC95	0.6/1.2	2.3/4.2	-0.2/3.4	1/4.3	0.2/4.2		-7.3/-2.5	-21.3/-13.8	-7.6/-4.2
<b>Hospi</b>									
Mean T	0.1	6	17.8	16.7	7		163.9	146	175.2
Mean C	0.1	3.6	18.1	15.6	13.4		156.8	147.5	179.2
Diff. TC. IC95	-0.2/0.2	0.3/4.5	-2.9/2.2	-2.6/4.8	-11.3/-1.5		2.9/11.5	-8.9/6.4	-7.3/-0.8
<b>STI</b>									
Mean T	18.8	4.1	19.3	9.2	25.9		140.2	136.9	174.4
Mean C	25.2	31	3.5	8	75.5		95.3	84.9	179.9
Diff. TC. IC95	-19.6/6	-46.5/-11	4.9/31.9	-4.4/6.7	-78/-21.9		14.4/74.9	20.5/79	-15.6/2.5
<b>Nursing, Hospi</b>									
Mean T	0.2	9.3	21.1	21.1	10.5		160	130.6	170.5
Mean C	0	5.2	24.7	19.7	9.6		156.9	146.9	180.4
Diff. TC. IC95	-19.8/6.2	-46.8/-9.3	4.9/30	-4.8/6.7	-79.1/-20.1		15.2/73.2	23.8/80.4	-15.5/2.4

Table 7.27: Average number of days for 12 months (per patient)

	Temp. NH		Hosp.		Def. NH		Days home		Days alive
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Aft	Aft
<b>No Event</b>									
Mean T	0.2	5.8	15.8	18.1	15.5	328.6	287.7	344	
Mean C	0	1.8	13.6	10	10	348.2	336.7	358.4	
Diff. TC. IC95	0/0.5	2.4/5.4	-0.2/4.6	5.6/10.5	1.4/10.1	-24.8/-14.2	-56.6/-41.3	-18.7/-10	
<b>Nursing</b>									
Mean T	1.5	8.1	24.4	22	30.1	330.5	270.1	336	
Mean C	0.1	5.4	26.6	20.2	16.4	335.9	309.3	350.5	
Diff. TC. IC95	1.1/1.9	1.1/4.4	-4.8/0.4	-0.7/4.3	8.4/18.9	-9.2/-1.7	-47.5/-31	-19.6/-10	
<b>Hospi</b>									
Mean T	0.2	10.1	18.6	23.8	23.4	344.6	287.1	342.7	
Mean C	0.1	4.6	20.3	22.4	30.7	327.2	289.8	348	
Diff. TC. IC95	-0.1/0.4	2.2/9	-4.5/1	-4.2/6.6	-19.7/3.8	9.6/25.9	-18.4/12.4	-14.1/3.7	
<b>STI</b>									
Mean T	37.5	8.1	33	14.1	70.8	289.3	244.7	334.7	
Mean C	58.5	50.9	13.2	11.9	160.8	191.5	143.3	350.4	
Diff. TC. IC95	-43.6/-0.9	-77.4/-13.5	0.5/44.1	-6.6/10.6	-150/-33.2	42.3/157.1	42.1/158.5	-47.6/14.7	
<b>Nursing, Hospi</b>									
Mean T	0.4	13.3	25.4	29.3	35.5	337.4	248.7	325.5	
Mean C	0	10.7	30.8	31	31.3	333.2	272.6	345.7	
Diff. TC. IC95	-43/-0.1	-81.4/-14	-2.1/43.5	-6.9/11.7	-148.9/-29.1	43.2/151.6	41.2/156.8	-47/12.7	

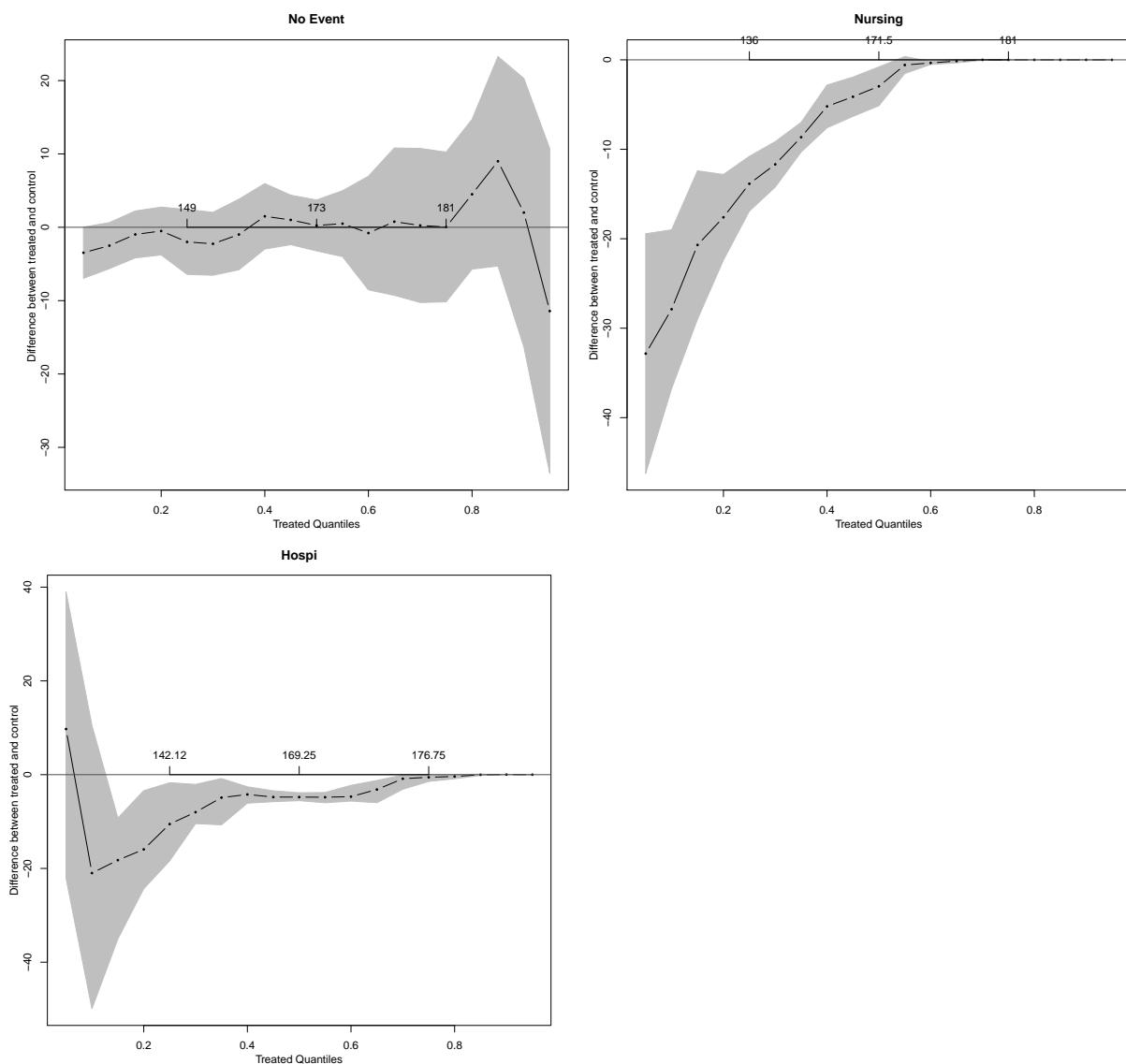


Figure 7.29: Graphs of the differences of days spent at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the number of days at home before intervention

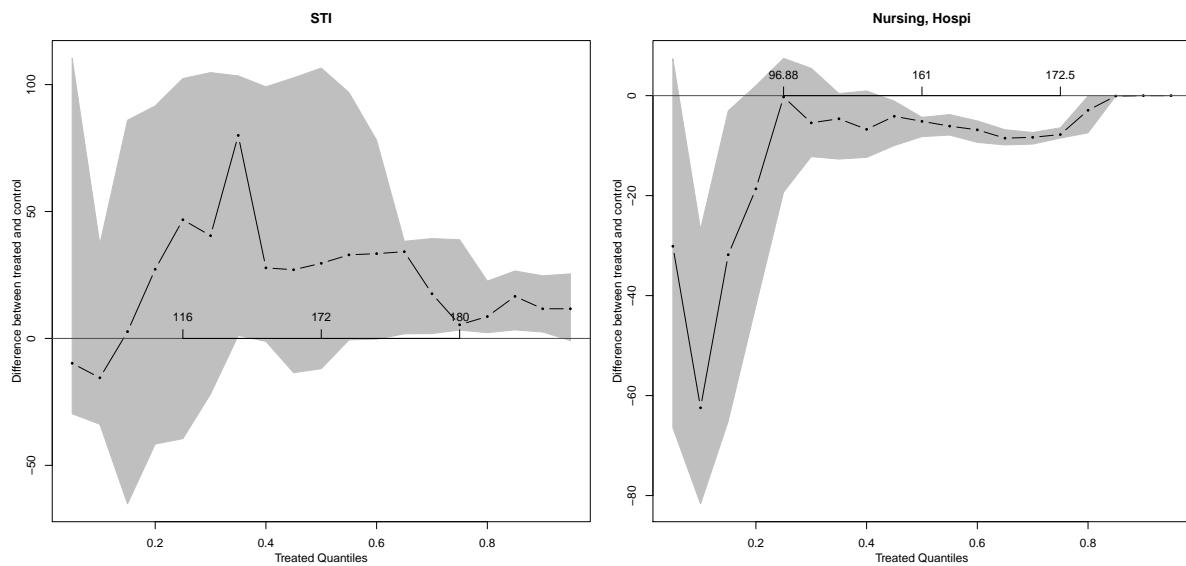


Figure 7.30: Graphs of the differences of days spent at home between treated and control, for six months, adjusted according to the proxy of the socio economic status, the number of days alive for six months and the number of days at home before intervention

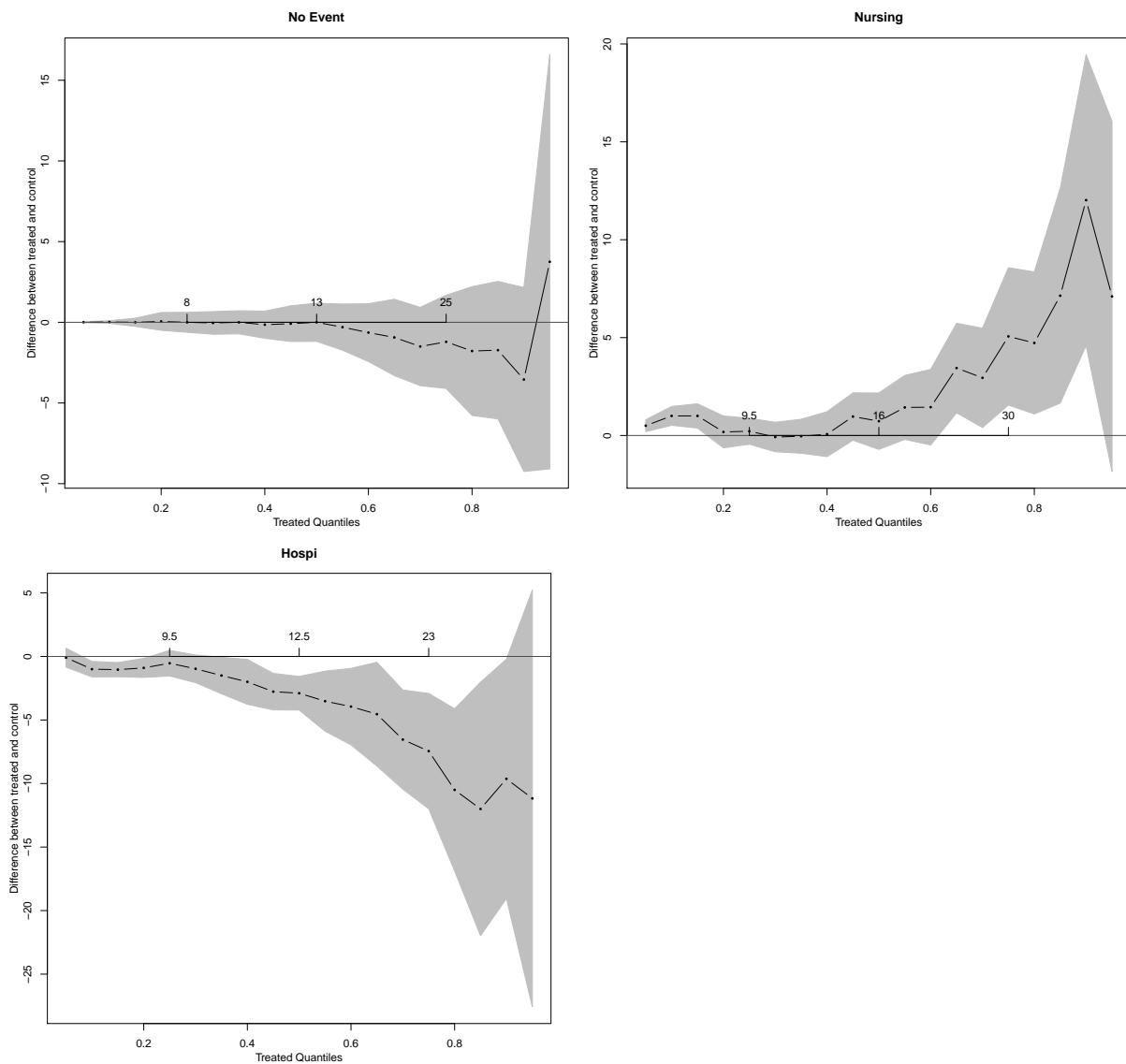


Figure 7.31: Graphs of the differences of days spent in hospital between treated and control, for six months, only for people with at least one hospitalisation, adjusted according to the proxy of the socio economic status and the number of days alive for six months

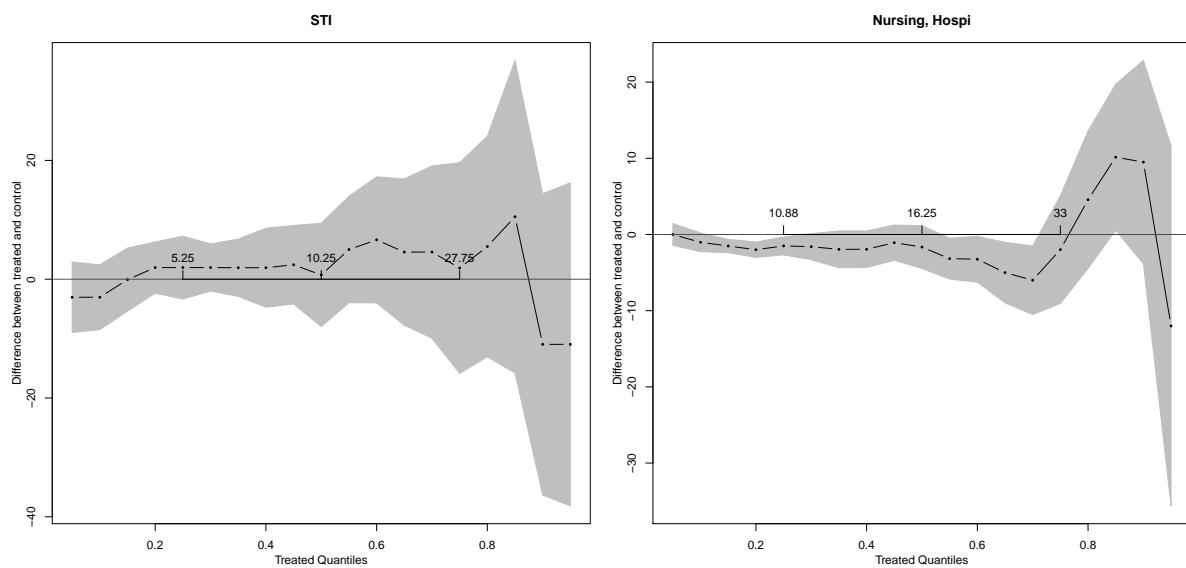


Figure 7.32: Graphs of the differences of days spent in hospital between treated and control, for six months, only for people with at least one hospitalisation, adjusted according to the proxy of the socio economic status and the number of days alive for six months

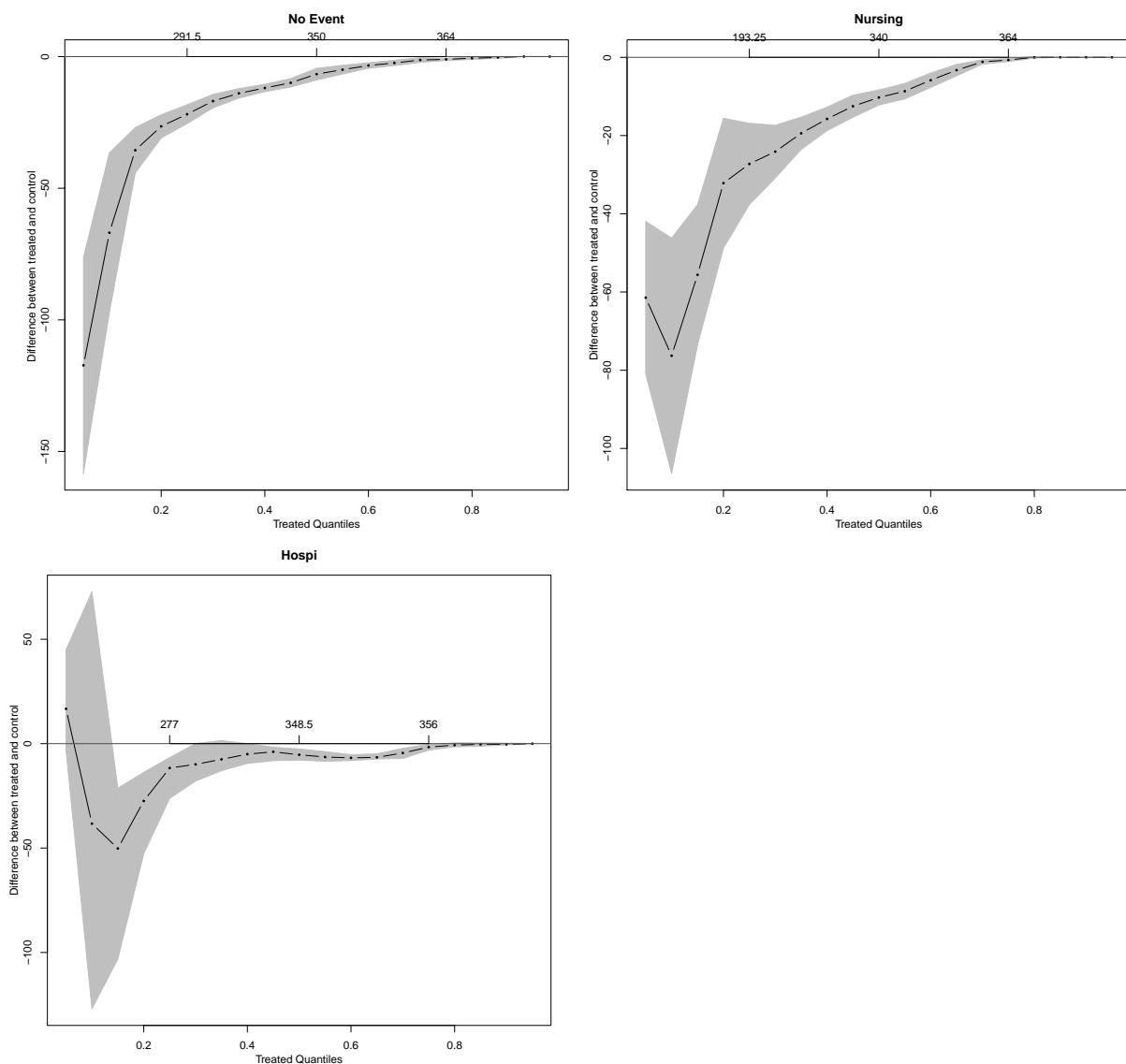


Figure 7.33: Graphs of the differences of days spent at home between treated and control, for twelve months, adjusted according to the proxy of the socio economic status, the number of days alive for twelve months and the number of days at home before intervention

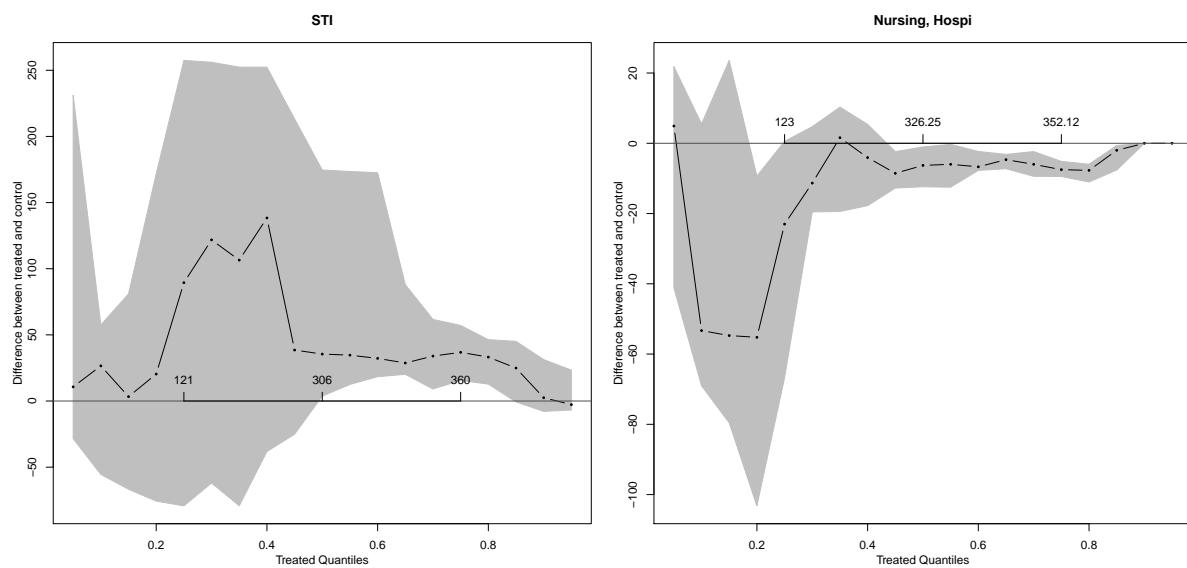


Figure 7.34: Graphs of the differences of days spent at home between treated and control, for twelve months, adjusted according to the proxy of the socio economic status, the number of days alive for twelve months and the number of days at home before intervention

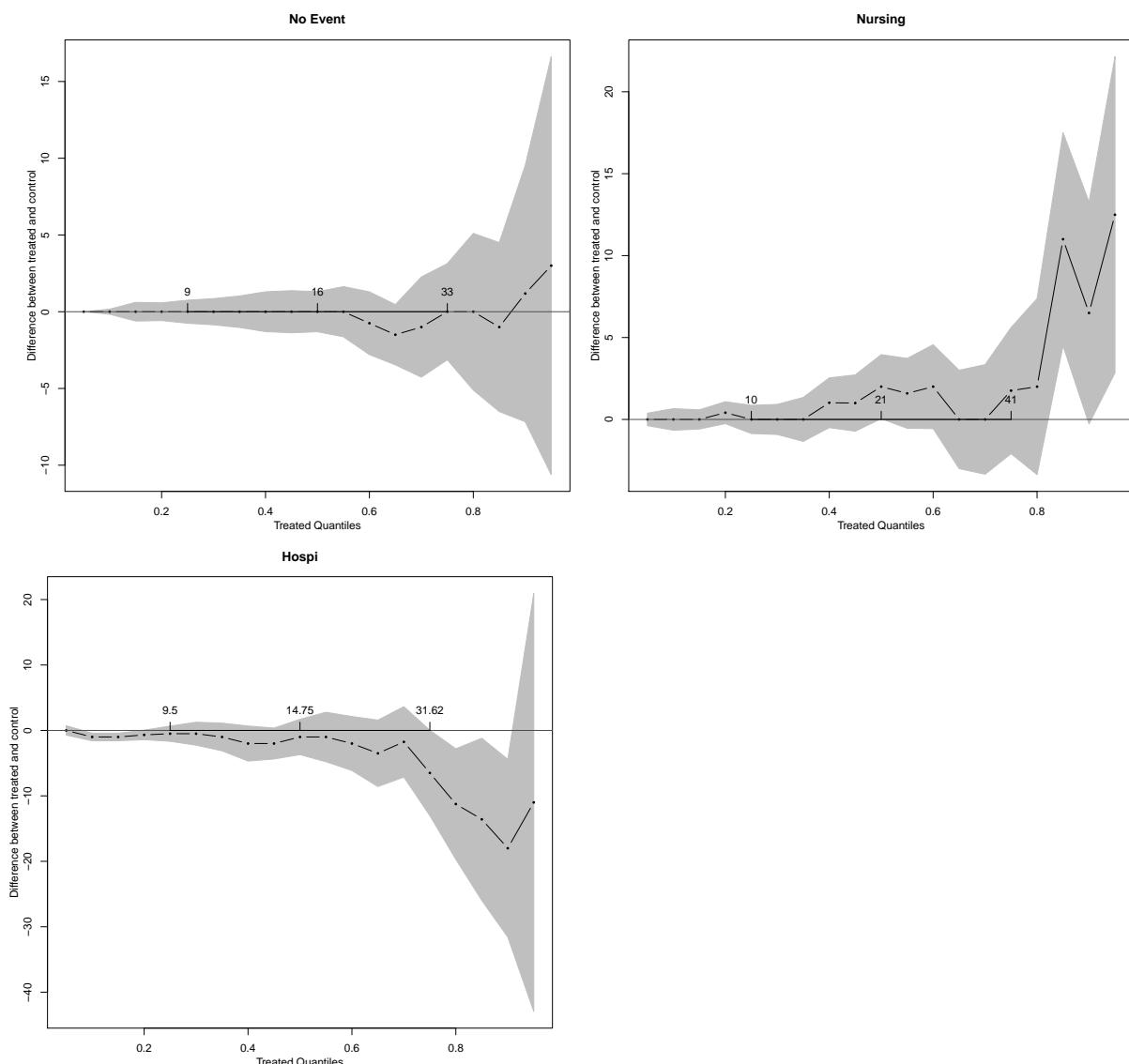


Figure 7.35: Graphs of the differences of days spent in hospital between treated and control for twelve months, only for people with at least one hospitalisation and adjusted according to the proxy of the socio economic status and the number of days alive for twelve months

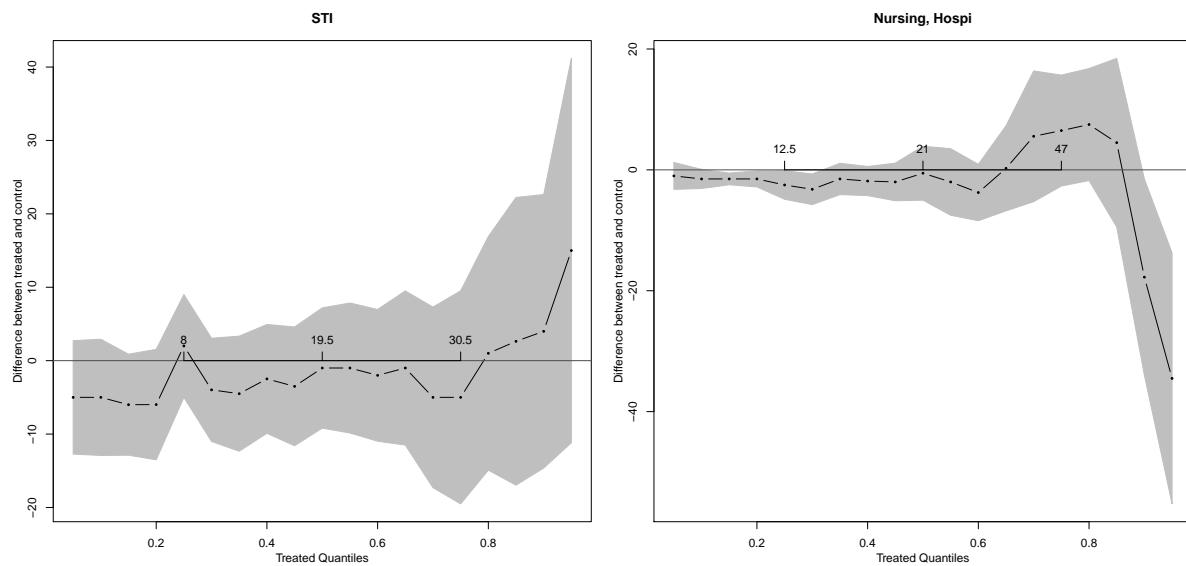


Figure 7.36: Graphs of the differences of days spent in hospital between treated and control for twelve months, only for people with at least one hospitalisation and adjusted according to the proxy of the socio economic status and the number of days alive for twelve months

# Chapter 8

## Occupational therapy

### 8.1 Comparison with the BelRAI control group

#### 8.1.1 Description of disability groups

Table 8.1: Proportion above the cut off of BelRAI scales depend on the subgroups of disability for the project OT

	low limit.	IADL, (cogn.)	func.	func., cogn.
IADL	4.17	94.05	95.49	98.81
ADL	1.39	1.19	99.25	86.90
CPS	5.56	11.90	0.00	91.67
Behav.	8.33	2.38	12.78	32.14
DRS	26.39	28.57	20.30	36.90
N	72.00	84.00	133.00	84.00

Table 8.2: Proportion above the cut off of BelRAI scales depend on the subgroups of disability for the patients without second evaluation of project OT

	low limit.	IADL, (cogn.)	func.	func., cogn.
<b>PA institutionalised or dead</b>				
ADL	0.00	100.00	93.94	100.00
IADL	0.00	0.00	81.82	88.10
CPS	0.00	33.33	0.00	80.95
Behav.	0.00	0.00	0.00	35.71
DRS	33.33	0.00	33.33	46.15
% missing	2.64	3.97	7.88	14.84
<b>PA without second evaluation</b>				
ADL	1.47	83.33	87.10	100.00
IADL	1.47	2.38	74.19	86.00
CPS	0.00	16.67	0.00	80.00
Behav.	0.00	16.67	2.15	44.00
DRS	22.39	19.05	27.17	45.65
% missing	29.96	27.81	22.20	17.67

### 8.1.2 Description of socio-demographic variables

Table 8.3: Sociodemographic characteristics for the treated and the control group depend on the health profiles

	low limit.		IADL, (cogn.)		func.		func., cogn.	
	T	C	T	C	T	C	T	C
<b>Age</b>								
Median[IQR]	78[73-83]	81[74-87]	80[74-82]	81[75-86]	80[74-85]	82[76-87]	80[75-85]	82[78-87]
<b>Gender</b>								
% Men	26.39	26.39	32.14	40.48	30.08	27.07	38.1	28.57
% Women	73.61	73.61	67.86	59.52	69.92	72.93	61.9	71.43
<b>ICG</b>								
% No ICG	41.67	41.67	23.81	23.81	17.29	17.29	0	0
% No cohabitant	27.78	27.78	33.33	33.33	27.07	27.07	15.48	15.48
% Cohabitant	30.56	30.56	42.86	42.86	55.64	55.64	84.52	84.52
<b>Region</b>								
Bruxelles	0	0	0	0	0	0	0	0
Flandre	55.56	36.11	55.95	47.62	47.37	84.96	33.33	73.81
Wallonie	44.44	63.89	44.05	52.38	52.63	15.04	66.67	26.19
<b>Median income</b>								
Low	30.56	33.33	29.76	40.48	27.82	6.02	30.95	14.29
Medium	69.44	44.44	67.86	48.81	66.92	51.88	60.71	48.81
High	0	22.22	2.38	10.71	5.26	42.11	8.33	36.9
<b>N</b>								
Unique value	72	38	84	48	133	80	84	51



### 8.1.3 Clinical outcome

Table 8.4: BelRai outcomes

	ADL		IADL		Falls	
	Bef	Aft	Bef	Aft	Bef	Aft
<b>low limit.</b>						
% cut off C	7.04	9.86	9.86	22.86	17.91	20.59
% cut off T	1.41	2.82	2.82	21.43	34.33	26.47
IC95	-[-/-]	-[-/-]	-[-/-]	0.61[0.22/1.64]	2.4[1.1/6.24]	1.02[0.39/2.53]
% NA	0	0	0	1.41	5.63	4.23
<b>IADL, (cogn.)</b>						
% cut off C	3.57	3.61	79.76	75.9	24.66	21.52
% cut off T	1.19	10.84	94.05	90.36	45.21	29.11
IC95	-[-/-]	3.49[1.16/116763609.23]	4.01[1.53/23.25]	0.98[0.11/3.94]	2.52[1.17/5.26]	1.13[0.46/2.62]
% NA	0	1.19	0	1.19	13.1	5.95
<b>func.</b>						
% cut off C	94.74	93.85	91.73	93.18	30.08	35.25
% cut off T	99.25	91.54	95.49	93.18	41.46	22.95
IC95	-[-/-]	0.74[0.24/1.88]	1.91[0.68/7.7]	0.16[0.01/0.56]	1.65[0.95/2.89]	0.34[0.16/0.67]
% NA	0	2.26	0	0.75	7.52	8.27
<b>func., cogn.</b>						
% cut off C	86.9	89.87	100	100	21.79	27.78
% cut off T	86.9	88.61	98.81	96.2	55.13	38.89
IC95	1[0.4/2.73]	0.2[0.01/0.96]	-[-/-]	-[-/-]	4.41[2.31/9.59]	1[0.3/2.58]
% NA	0	5.95	0	5.95	7.14	14.29

Table 8.5: Zarit outcome

	Non Cohab		Cohab	
	Bef	Aft	Bef	Aft
<b>low limit.</b>				
% cut off C	7.69	16.67	7.14	6.67
% cut off T	53.85	83.33	35.71	40
IC95	-[-/-]	-[-/-]	-[-/-]	-[-/-]
% NA	35	70	33.33	28.57
<b>IADL, (cogn.)</b>				
% cut off C	23.53	45.45	32	25
% cut off T	76.47	81.82	52	55
IC95	10.56[2.67/785915041.23]	-[-/-]	2.3[0.76/8.54]	6187074066306411520[32.98/2.87384710657382e+27]
% NA	39.29	60.71	30.56	44.44
<b>func.</b>				
% cut off C	20	33.33	46.15	21.95
% cut off T	35	42.86	55.77	58.54
IC95	2.15[0.56/15.98]	6.03593279791537e+27[0/3.77988470176817e+64]	1.47[0.7/3.33]	6.29[1.47/5088.57]
% NA	44.44	41.67	29.73	44.59
<b>func., cogn.</b>				
% cut off C	40	0	68.52	75
% cut off T	20	100	61.11	62.5
IC95	-[-/-]	-[-/-]	0.72[0.34/1.63]	0.51[0.02/4.64]
% NA	61.54	84.62	23.94	43.66

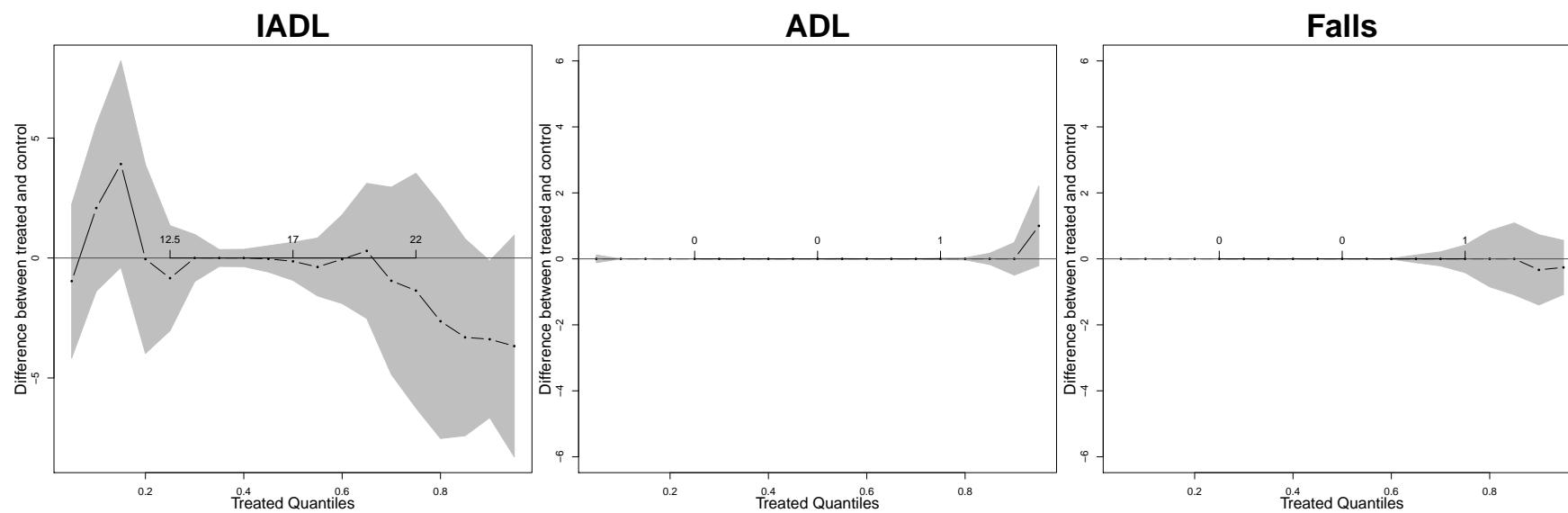


Figure 8.1: Regression quantile of clinical outcome (Low limitation)

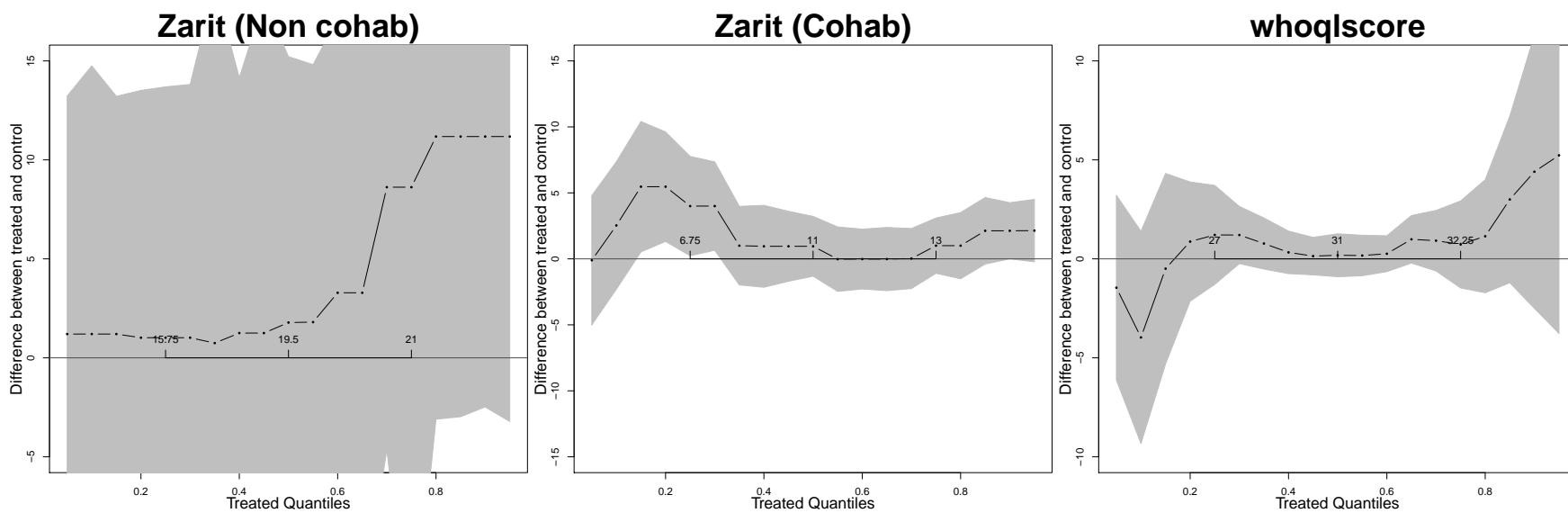


Figure 8.2: Regression quantile of burden and quality of life clinical outcome (Low limitation)

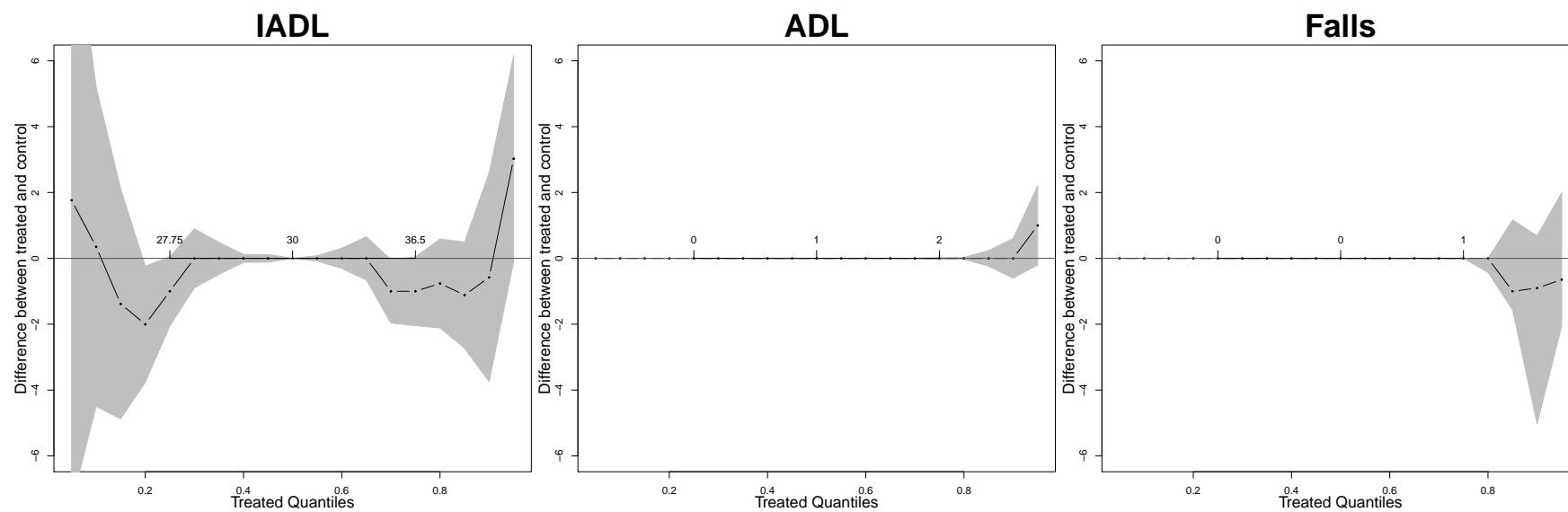


Figure 8.3: Regression quantile of clinical outcome (IADL (cogn.)

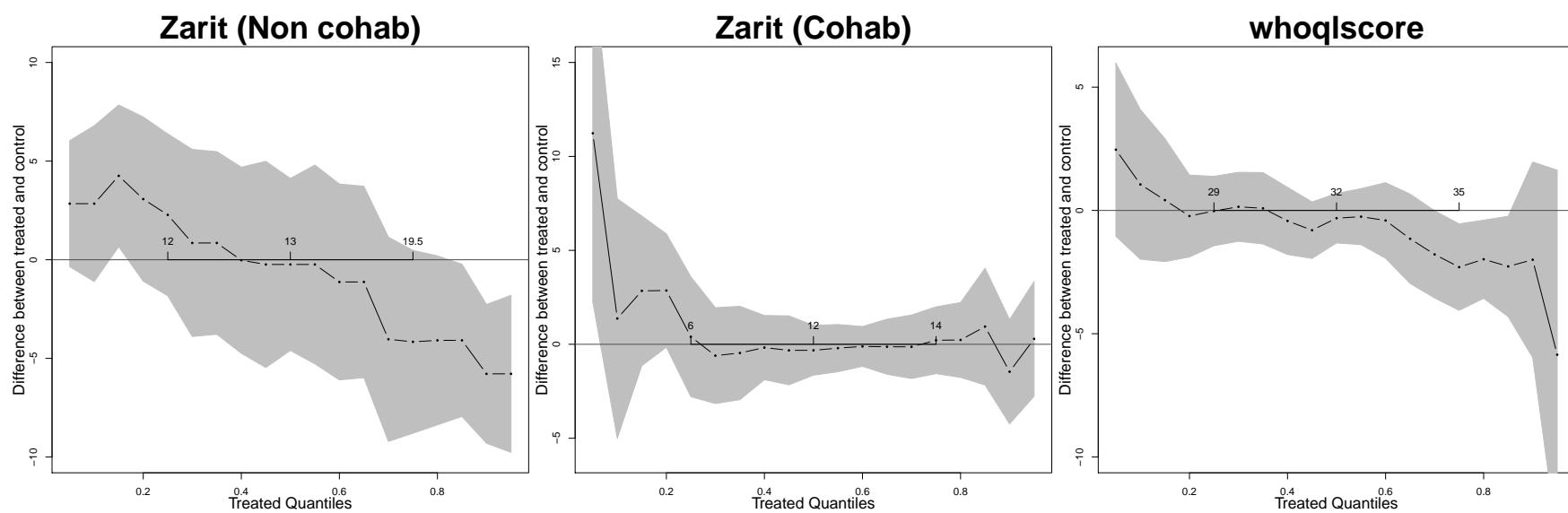


Figure 8.4: Regression quantile of burden and quality of life clinical outcome (IADL (cogn.)

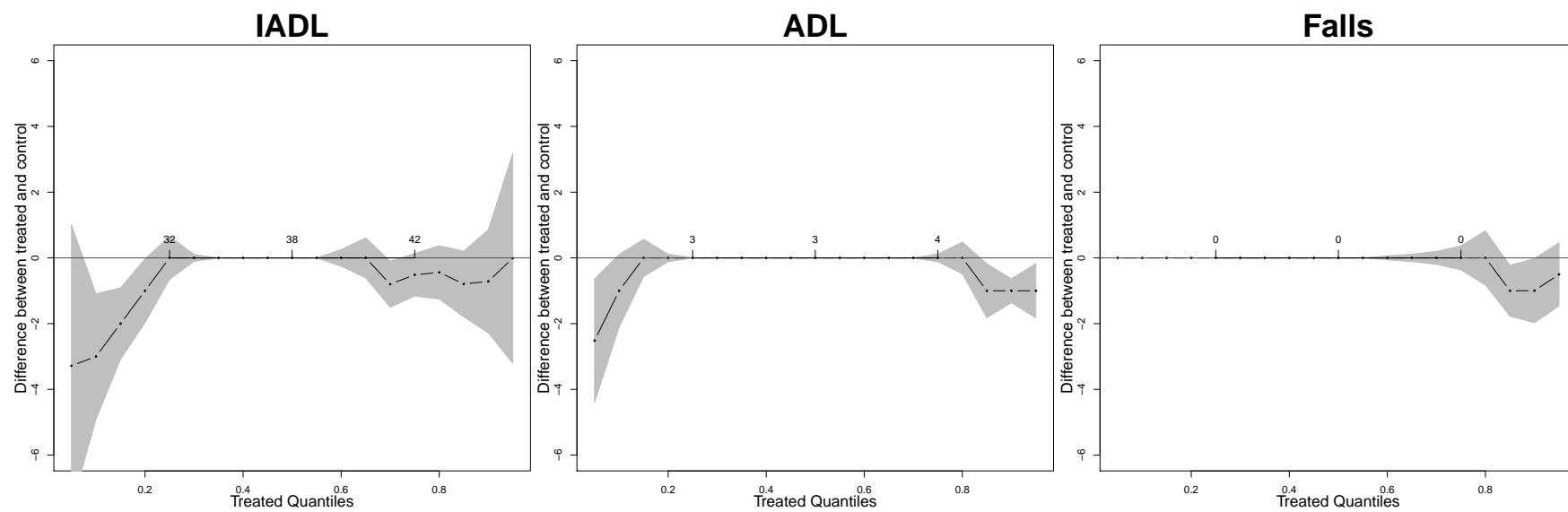


Figure 8.5: Regression quantile of clinical outcome (Func.)

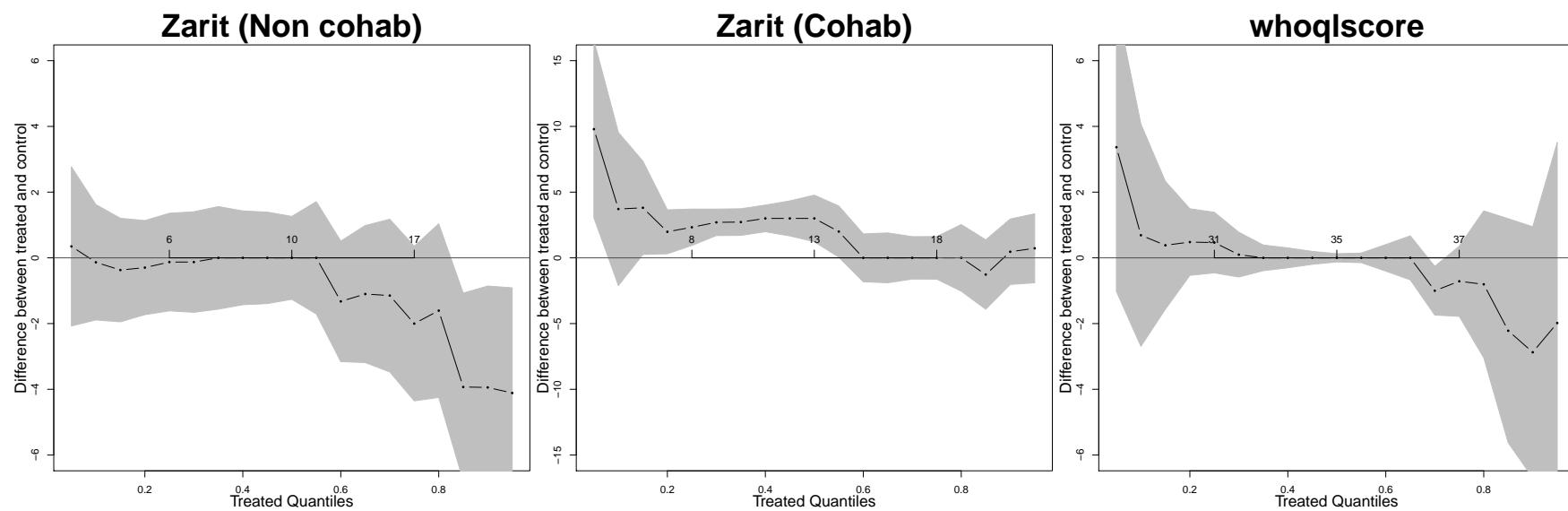


Figure 8.6: Regression quantile of burden and quality of life clinical outcome (Func.)

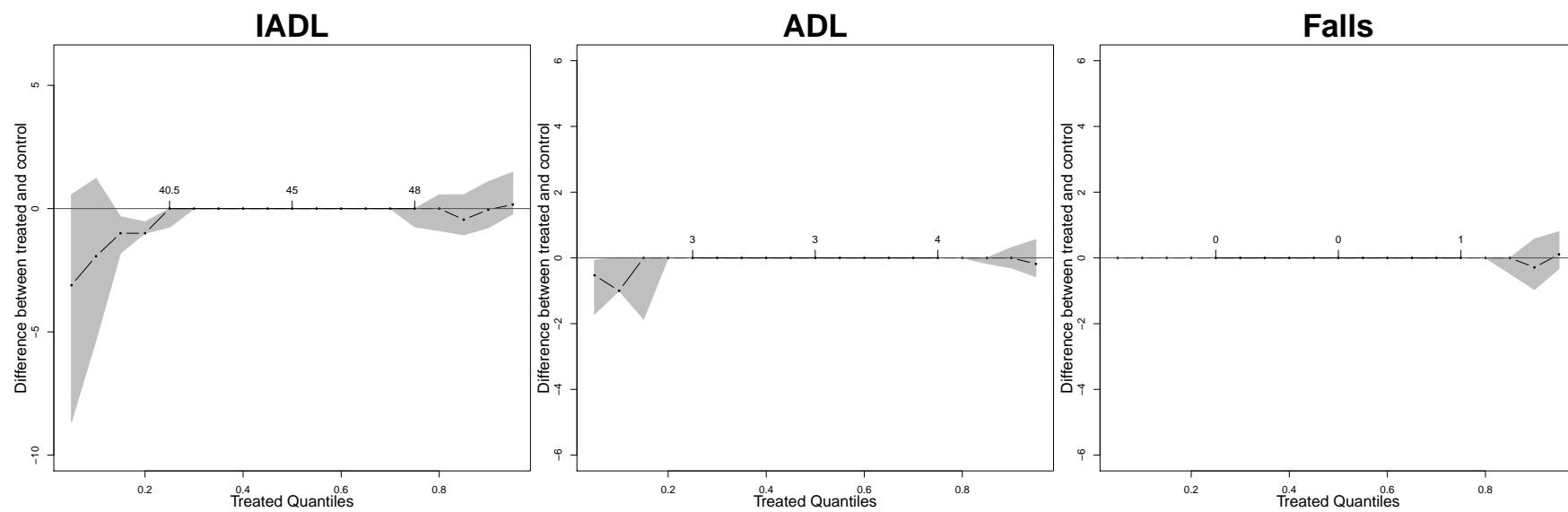


Figure 8.7: Regression quantile of clinical outcome (Func., cogn.)

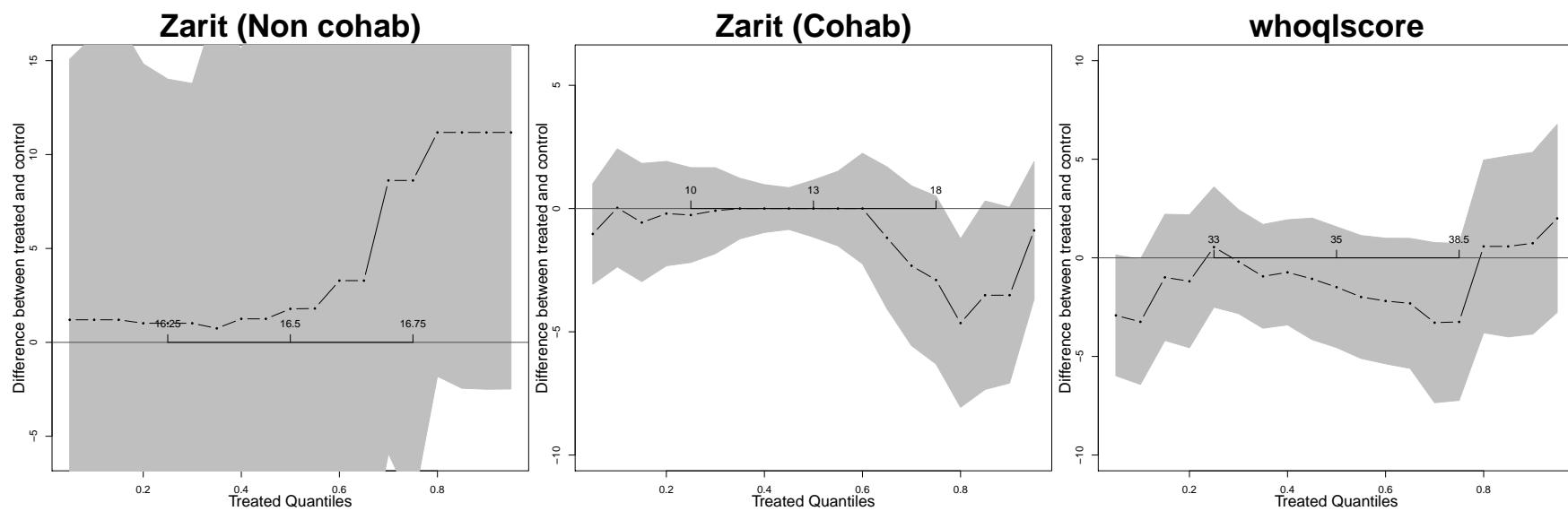


Figure 8.8: Regression quantile of burden and quality of life clinical outcome (Func., cogn.)

## 8.1.4 Utilisation of services

### Appropriate use of services

Table 8.6: IC difference of mean between treated and control for the dependency IMA outcomes

	Nursing Care		Short term institu.		Day care center	
	N months		N stays		N days	
	Use	Users	Use	Users	Use	Users
<b>low limit.</b>						
% / Med[IQR] C	17.91	5[2-10]	1	2[2-2]	1	14[9-19]
% / Med[IQR] T	40.3	7[2-10]	0	-	0.5	3[3-3]
OR [IC95]	2.95[1.83/4.78]		-[-/-]		-[-/-]	
<b>IADL, (cogn.)</b>						
% / Med[IQR] C	85.03	12[10-12]	0	1[1-2]	5.93	35[9-86]
% / Med[IQR] T	87.57	9[5-12]	1.69	1[1-1]	2.82	21[8-39]
OR [IC95]	1.38[0.86/2.12]		-[-/-]		3.33[0.63/159768482.85]	
<b>func.</b>						
% / Med[IQR] C	31.58	5[2-12]	0	1[1-1]	0	-
% / Med[IQR] T	42.11	3[2-9]	2.63	1[1-1]	2.63	14[14-14]
OR [IC95]	1.72[0.62/6.13]		-[-/-]		-[-/-]	
<b>func., cogn.</b>						
% / Med[IQR] C	85.71	12[7-12]	0	-	0	-
% / Med[IQR] T	83.33	6[4-10]	0	-	0	-
OR [IC95]	0.79[0.16/3.33]		-[-/-]		-[-/-]	

Table 8.7: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated at inclusion)

	low limit.		IADL, (cogn.)		func.		func., cogn.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim								
ADL or Incont	11.5(4.3)	88.5(32.9)	50(3.8)	50(3.8)	0(0)	100(1.5)	50(1.2)	50(1.2)
Low lim, ADL & Incont	- (0)	- (0)	66.7(2.5)	33.3(1.3)	- (0)	- (0)	- (0)	- (0)
ADL lim	44.8(18.6)	55.2(22.9)	57.1(30.4)	42.9(22.8)	67.9(29.2)	32.1(13.8)	58.3(17.1)	41.7(12.2)
Incont	0(0)	100(1.4)	0(0)	100(2.5)	- (0)	- (0)	- (0)	- (0)
ADL & Incont lim	62.5(7.1)	37.5(4.3)	66.7(10.1)	33.3(5.1)	84.3(33.1)	15.7(6.2)	58.3(34.1)	41.7(24.4)
ADL ? No Incont	33.3(2.9)	66.7(5.7)	78.6(13.9)	21.4(3.8)	52.4(8.5)	47.6(7.7)	37.5(3.7)	62.5(6.1)
tot	32.9(32.9)	67.1(67.1)	60.8(60.8)	39.2(39.2)	70.8(70.8)	29.2(29.2)	56.1(56.1)	43.9(43.9)

Table 8.8: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Control at inclusion)

	low limit.		IADL, (cogn.)		func.		func., cogn.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim								
ADL or Incont	27.6(11.4)	72.4(30)	33.3(6.3)	66.7(12.7)	-(0)	-(0)	33.3(1.2)	66.7(2.4)
Low lim, ADL & Incont	100(1.4)	0(0)	83.3(6.3)	16.7(1.3)	-(0)	-(0)	-(0)	-(0)
ADL lim	50(18.6)	50(18.6)	88.2(38)	11.8(5.1)	91.2(23.8)	8.8(2.3)	94.4(20.7)	5.6(1.2)
Incont	100(1.4)	0(0)	0(0)	100(2.5)	100(0.8)	0(0)	-(0)	-(0)
ADL & Incont lim	100(14.3)	0(0)	83.3(12.7)	16.7(2.5)	94(48.5)	6(3.1)	90.4(57.3)	9.6(6.1)
ADL ? No Incont	66.7(2.9)	33.3(1.4)	100(12.7)	0(0)	89.3(19.2)	10.7(2.3)	77.8(8.5)	22.2(2.4)
tot	50(50)	50(50)	75.9(75.9)	24.1(24.1)	92.3(92.3)	7.7(7.7)	87.8(87.8)	12.2(12.2)

Table 8.9: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated second eval)

	low limit.		IADL, (cogn.)		func.		func., cogn.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim								
ADL or Incont	38.5(14.3)	61.5(22.9)	50(3.8)	50(3.8)	50(0.8)	50(0.8)	50(1.2)	50(1.2)
Low lim, ADL & Incont	- (0)	- (0)	66.7(2.5)	33.3(1.3)	- (0)	- (0)	- (0)	- (0)
ADL lim	58.6(24.3)	41.4(17.1)	69(36.7)	31(16.5)	73.2(31.5)	26.8(11.5)	79.2(23.2)	20.8(6.1)
Incont	0(0)	100(1.4)	100(2.5)	0(0)	- (0)	- (0)	- (0)	- (0)
ADL & Incont lim	37.5(4.3)	62.5(7.1)	91.7(13.9)	8.3(1.3)	88.2(34.6)	11.8(4.6)	77.1(45.1)	22.9(13.4)
ADL ? No Incont	66.7(5.7)	33.3(2.9)	64.3(11.4)	35.7(6.3)	76.2(12.3)	23.8(3.8)	75(7.3)	25(2.4)
tot	48.6(48.6)	51.4(51.4)	70.9(70.9)	29.1(29.1)	79.2(79.2)	20.8(20.8)	76.8(76.8)	23.2(23.2)

Table 8.10: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Control second eval)

	low limit.		IADL, (cogn.)		func.		func., cogn.	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim								
ADL or Incont	51.7(21.4)	48.3(20)	46.7(8.9)	53.3(10.1)	-(0)	-(0)	100(3.7)	0(0)
Low lim, ADL & Incont	100(1.4)	0(0)	100(7.6)	0(0)	-(0)	-(0)	-(0)	-(0)
ADL lim	100(37.1)	0(0)	100(43)	0(0)	100(26.2)	0(0)	100(22)	0(0)
Incont	100(1.4)	0(0)	100(2.5)	0(0)	100(0.8)	0(0)	-(0)	-(0)
ADL & Incont lim	100(14.3)	0(0)	91.7(13.9)	8.3(1.3)	98.5(50.8)	1.5(0.8)	98.1(62.2)	1.9(1.2)
ADL ? No Incont	100(4.3)	0(0)	100(12.7)	0(0)	100(21.5)	0(0)	100(11)	0(0)
tot	80(80)	20(20)	88.6(88.6)	11.4(11.4)	99.2(99.2)	0.8(0.8)	98.8(98.8)	1.2(1.2)

## Inappropriate use of services

Table 8.11: IC difference of mean between treated and control for the low value IMA outcomes

	Emergency		GP out-of hours		Hospilisation	
	N visits		N visits		N visits	
	Use	Users	Use	Users	Use	Users
<b>low limit.</b>						
% / Med[IQR] C	22.39	1[1-2]	7.96	1[1-1]	23.38	1[1-2]
% / Med[IQR] T	18.91	1[1-2]	10.45	1[1-2]	27.36	1[1-1]
OR [IC95]	0.77[0.46/1.25]		1.52[0.7/3.11]		1.14[0.71/1.87]	
<b>IADL, (cogn.)</b>						
% / Med[IQR] C	26.55	1[1-2]	14.12	1[1-2]	33.05	1[1-2]
% / Med[IQR] T	22.6	1[1-2]	15.82	1[1-1]	31.07	1[1-2]
OR [IC95]	0.99[0.67/1.42]		1.3[0.84/2.13]		1.1[0.79/1.57]	
<b>func.</b>						
% / Med[IQR] C	34.21	1[1-2]	13.16	1[1-1]	36.84	1[1-2]
% / Med[IQR] T	18.42	1[1-2]	7.89	1[1-1]	28.95	1[1-2]
OR [IC95]	0.49[0.13/1.39]		-[-/-]		0.7[0.21/1.99]	
<b>func., cogn.</b>						
% / Med[IQR] C	33.33	2[1-2]	23.81	2[1-2]	42.86	1[1-2]
% / Med[IQR] T	26.19	1[1-1]	11.9	1[1-1]	35.71	1[1-2]
OR [IC95]	0.75[0.21/2.01]		0.41[0.06/1.55]		0.73[0.26/1.77]	

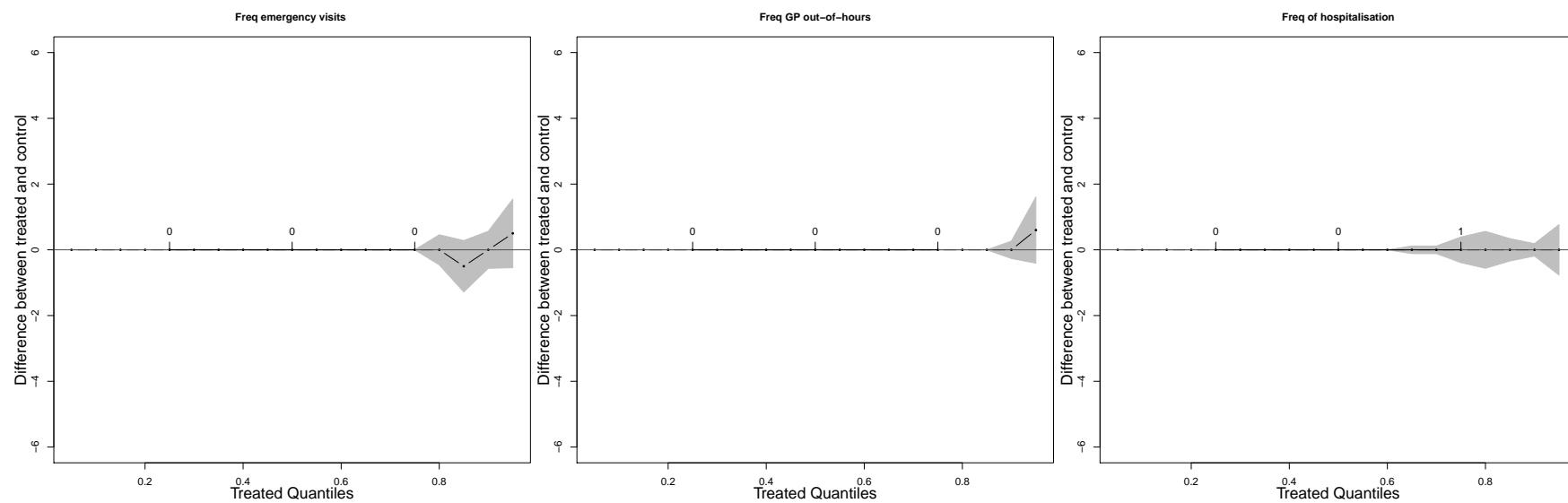


Figure 8.9: Regression quantile of inappropriate use of services (Low limitation)

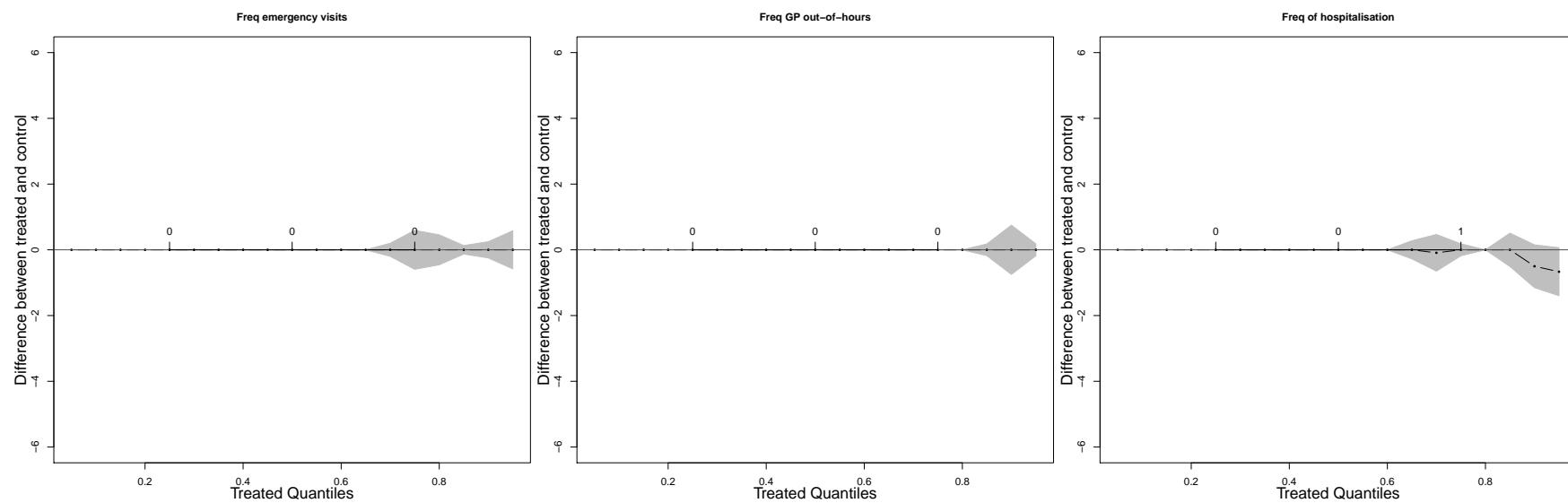


Figure 8.10: Regression quantile of inappropriate use of services (IADL (cogn.))

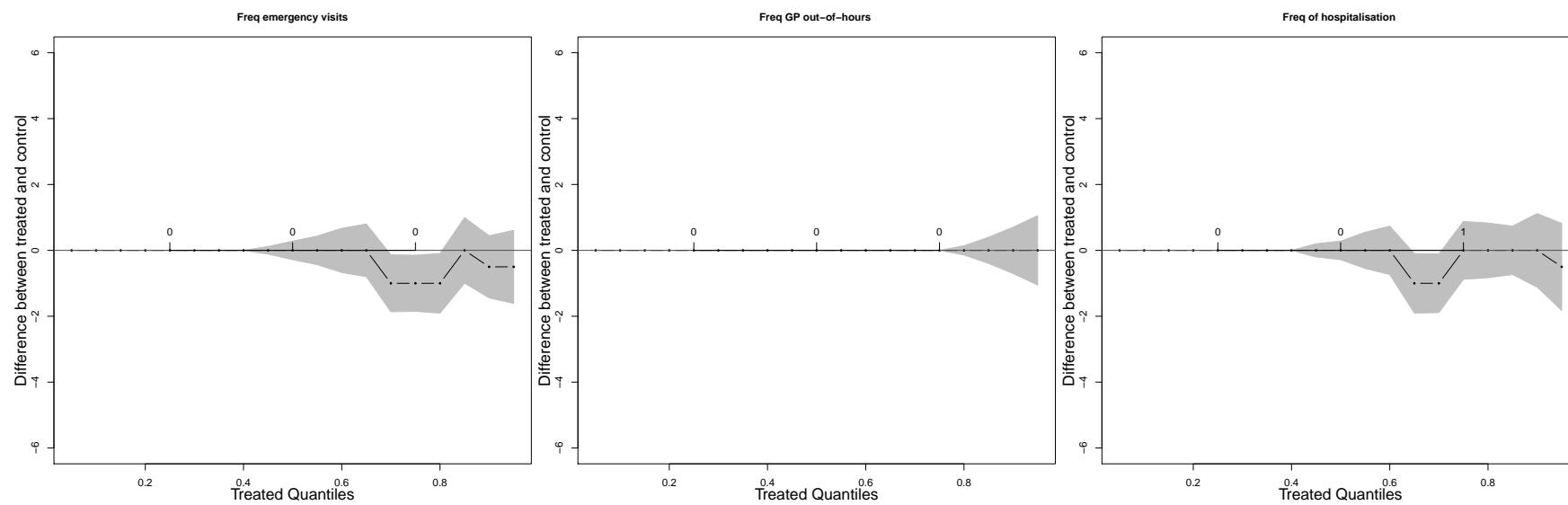


Figure 8.11: Regression quantile of inappropriate use of services (Func.)

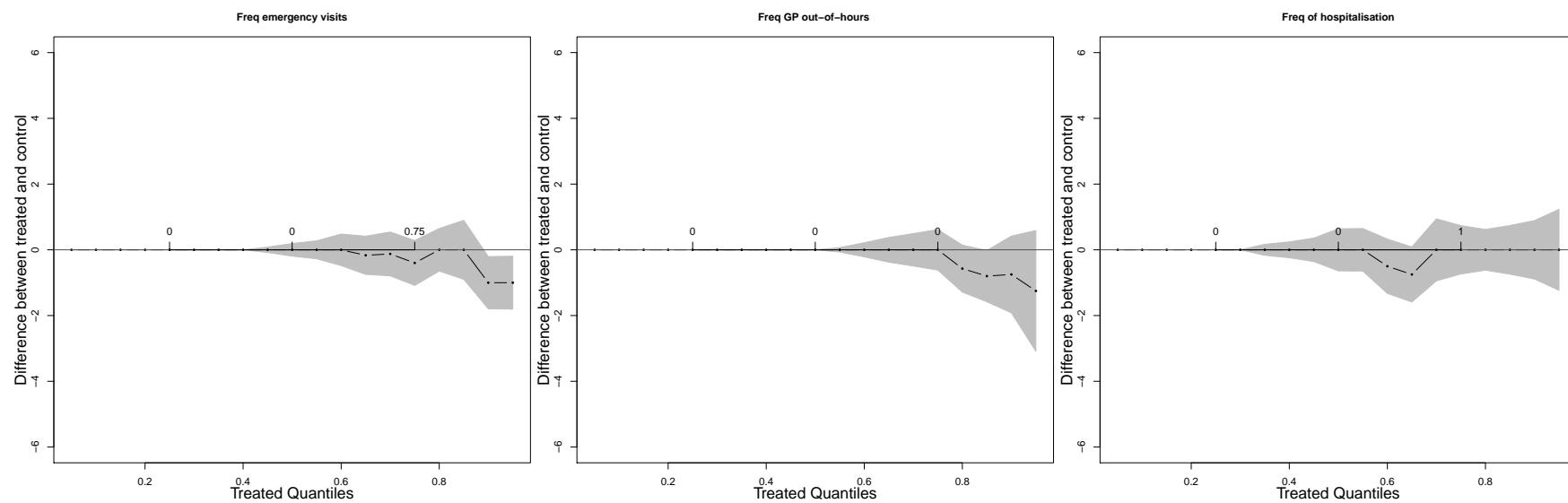


Figure 8.12: Regression quantile of inappropriate use of services (Func., cogn.)

### Definitive institutionalisation and death

Table 8.12: IC of ratio of incidence rate between treated and control for the death and the definitive institutionalisation

	Definitive institu.	Death
<b>low</b>		
<b>limit.</b>		
IR T	0.0032	0.0032
IR C	0.0032	0.0032
IC95	0.2/4.95	0.2/4.94
<b>IADL, (cogn.)</b>		
IR T	0.0147	0.0047
IR C	0.0073	0.0094
IC95	0.5/8.04	0.09/2.74
<b>func.</b>		
IR T	0.0052	0.0159
IR C	0.0038	0.0068
IC95	0.48/3.95	1.15/4.74
<b>func., cogn.</b>		
IR T	0.0137	0.023
IR C	0.0186	0.0197
IC95	0.35/1.55	0.62/2.2

### 8.1.5 Health care costs linked to disability for the NIHDI

Table 8.13: Cost of health care services and technical equipment

	Interv.		Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>												
Mean T	0	65.8	106.7	181.6	43.8	62.6	6	7.9	8.4	5.8	8.3	7
Mean C	0	0	275.8	634.4	39.5	94.8	1.5	1.1	13.9	14.1	4.1	0
IC95	0/0	61/70	-225.8/-111	-572.5/-339	-14.3/23	-68/0	-2/13	0.5/17	-14/3	-16.9/0	-4.1/13	1.4/15
<b>IADL (cogn.)</b>												
Mean T	0	66.4	209.4	271.6	66.3	91.3	16	18.7	5.7	2.6	1.5	1.5
Mean C	0	0	350.4	1076.2	83.7	209.1	3.1	24.8	24	21	0	0.3
IC95	0/0	61/71	-254.1/-34	-1076.1/-549	-51/15	-202.6/-37	-0.6/33	-29.3/18	-32.4/-4	-32.9/-5	0/5	-0.8/5
<b>Func.</b>												
Mean T	0	68.4	346.1	541.4	90.2	126.4	22.3	19.1	12.6	17	2.4	6.2
Mean C	0	0	712.9	1182.4	103.1	155.4	1.8	31.6	60.5	17.4	4.8	10.3
IC95	0/0	65.9/71	-444.2/-284	-756.7/-527	-36.6/11	-61.1/3	7.1/39	-54.8/13	-57.8/-37	-9.7/8	-8.7/3	-13.9/6
<b>Func. cogn.</b>												
Mean T	0	46.3	400.3	705.1	95.9	155.8	16.1	43.1	18.4	28.8	4.1	0
Mean C	0	0	983.4	1916.2	98.1	175.3	1.3	38.8	91.8	27.5	4.1	8.4
IC95	0/0	43.2/49	-718.1/-447	-1435.9/-980	-30/27	-71/28	5.2/25	-30.1/34	-89/-58	-13.1/16	-6.8/7	-19/0

Table 8.14: Cost of other health care services

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>												
Mean T	0	0	18.8	11.7	19.7	29.2	32.6	4.2	3.9	802.6	532.9	
Mean C	0	0	0	6.3	17	70.6	93.1	0.7	1.4	362.8	364.1	
IC95	0/0	0/0	4/37	-7.1/21	-26.9/33	-55.9/-28	-77.7/-45	1.4/6	0.4/5	164.5/718	-69.4/418	
<b>IADL (cogn.)</b>												
Mean T	0.7	5.6	43.2	41.1	46.6	25.5	29.7	2.5	3.8	1361.4	758.5	
Mean C	0	58.8	8.3	1.1	44.3	48.6	81.5	1.8	2.3	550.7	472.8	
IC95	0/2	-106.4/-6	0.5/79	2.8/101	-68.9/66	-36/-11	-66.1/-38	-1.9/3	-2.1/5	278.6/1404	-106.4/720	
<b>Func.</b>												
Mean T	3.3	3.1	9.7	9.1	17.5	34.3	46.8	1.9	1.7	1695.6	1297.5	
Mean C	4.2	7.2	0.9	14.1	11.4	54.6	85.4	2.7	3.3	298.7	674.4	
IC95	-7.5/6	-14.5/5	2.5/18	-18.1/8	-11.8/27	-28.1/-13	-49.4/-27	-2.3/1	-3.5/0	1056.2/1769	281.9/974	
<b>Func. cogn.</b>												
Mean T	9.3	10.2	32.1	19.3	56.5	23.3	39	2.1	2.5	1884.9	1682.5	
Mean C	14	11.8	8.4	25.1	84.6	45.8	106.8	3.3	5.1	612	789.2	
IC95	-24/13	-19.1/14	3.1/47	-24.5/12	-90.4/38	-30.4/-14	-105/-36	-3/0	-5.3/0	832.3/1724	275.3/1570	

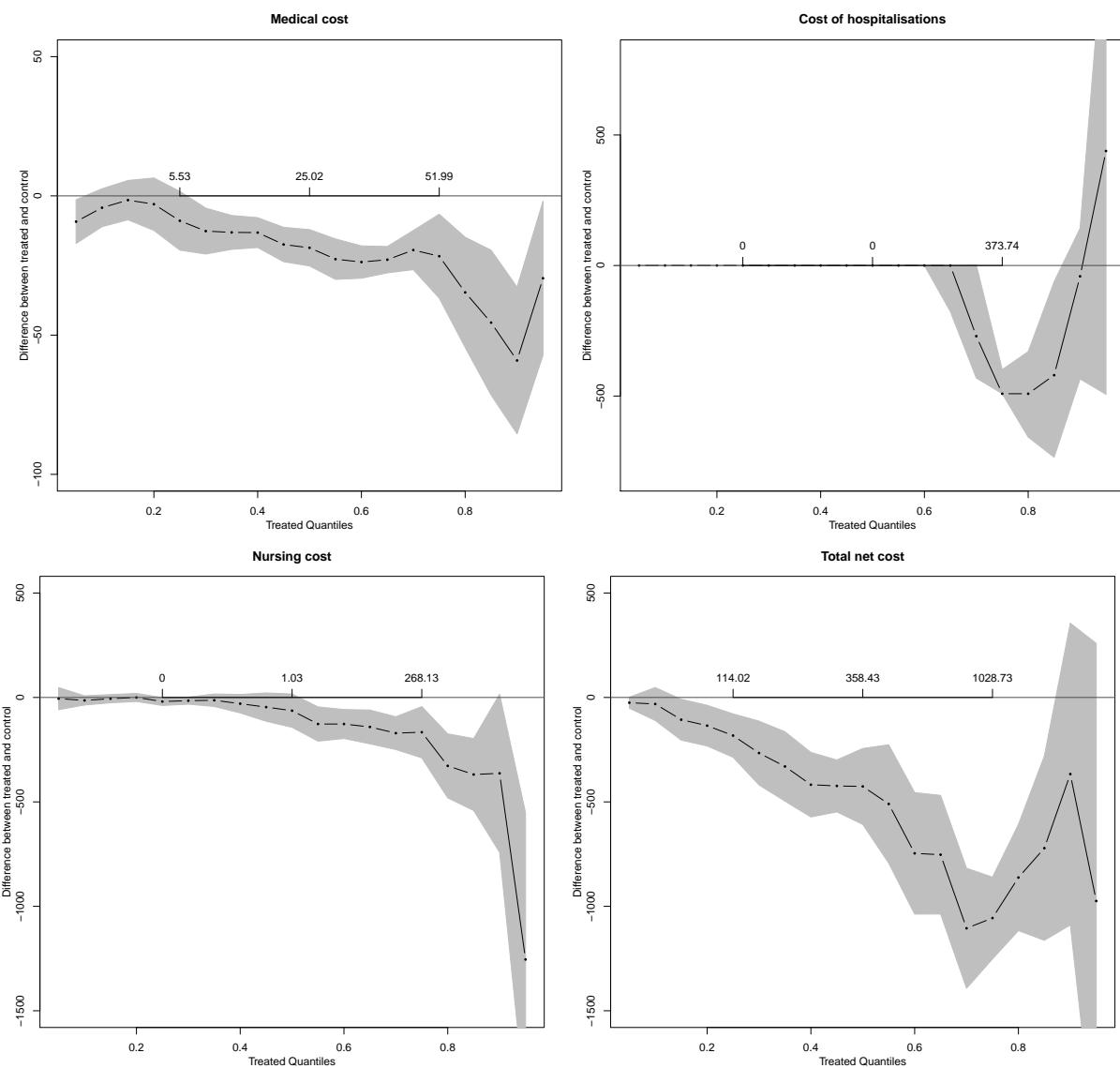


Figure 8.13: Graphs of the differences of costs between treated and control **for the NIHDI, for the group of low limitations, for six months**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

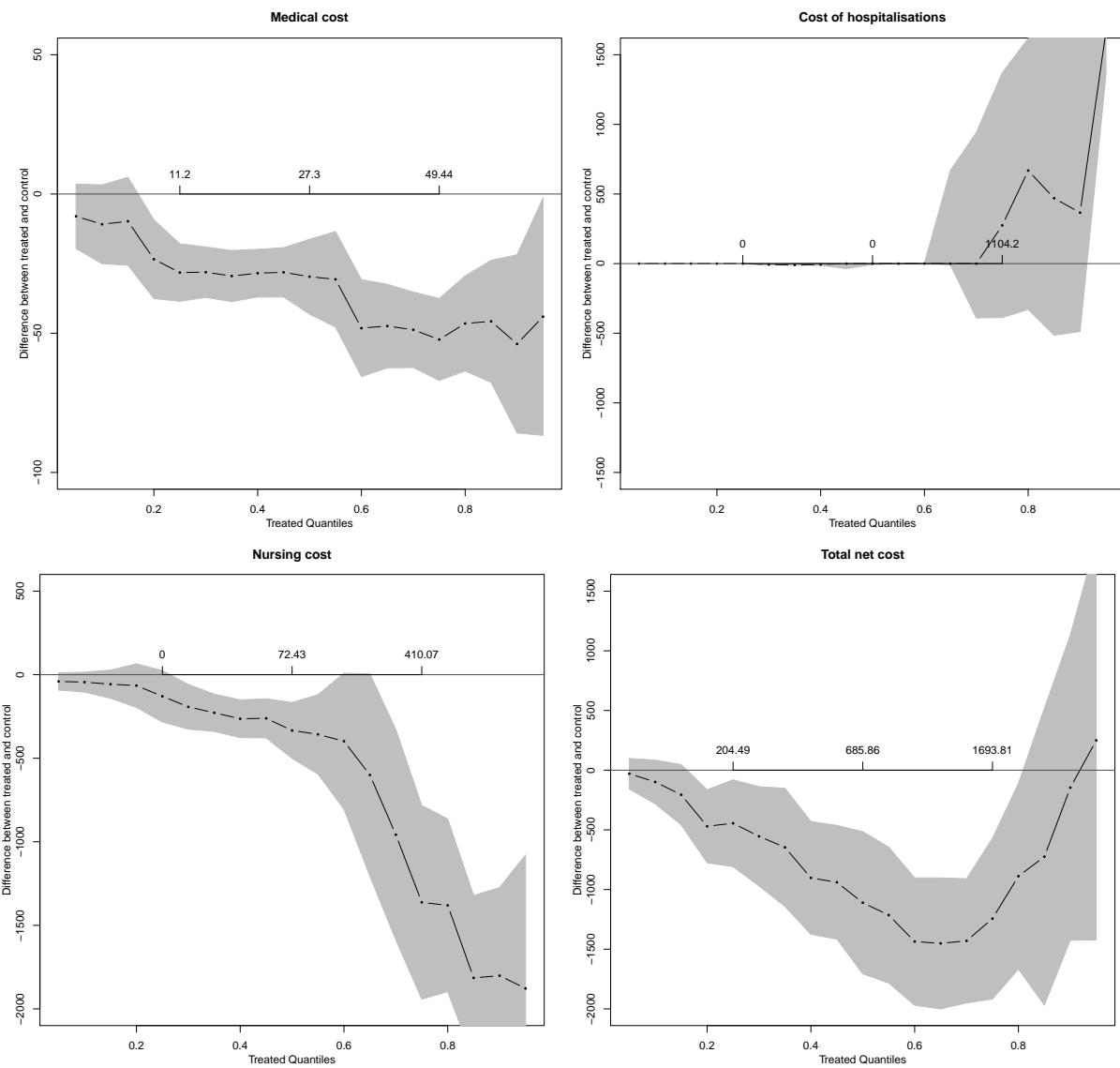


Figure 8.14: Graphs of the differences of costs between treated and control **for the NIHDI, for the group of IADL (cogn.), for six months**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive

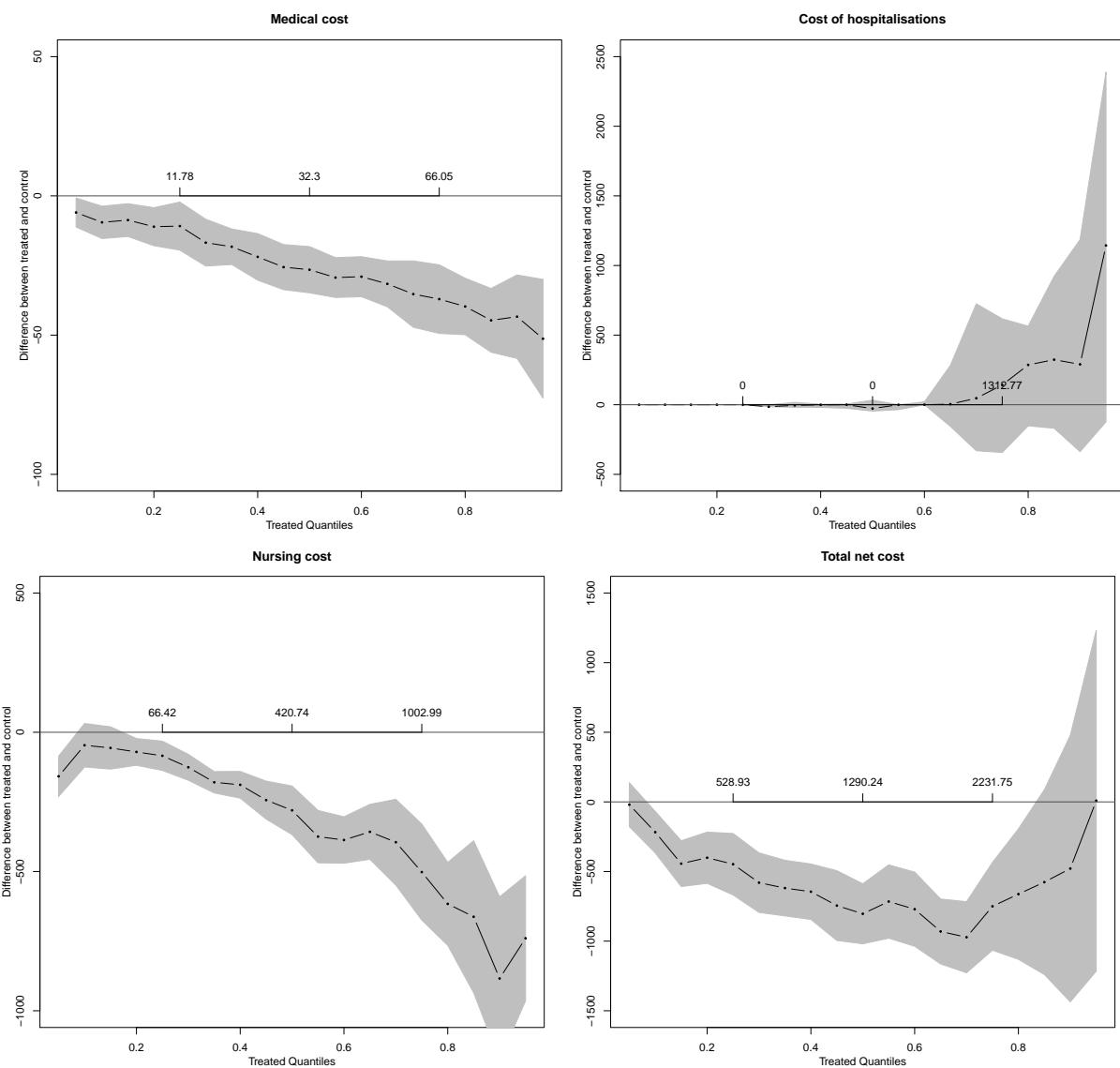


Figure 8.15: Graphs of the differences of costs between treated and control) for the NI-HDI for the group of functional limitations, for six months, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

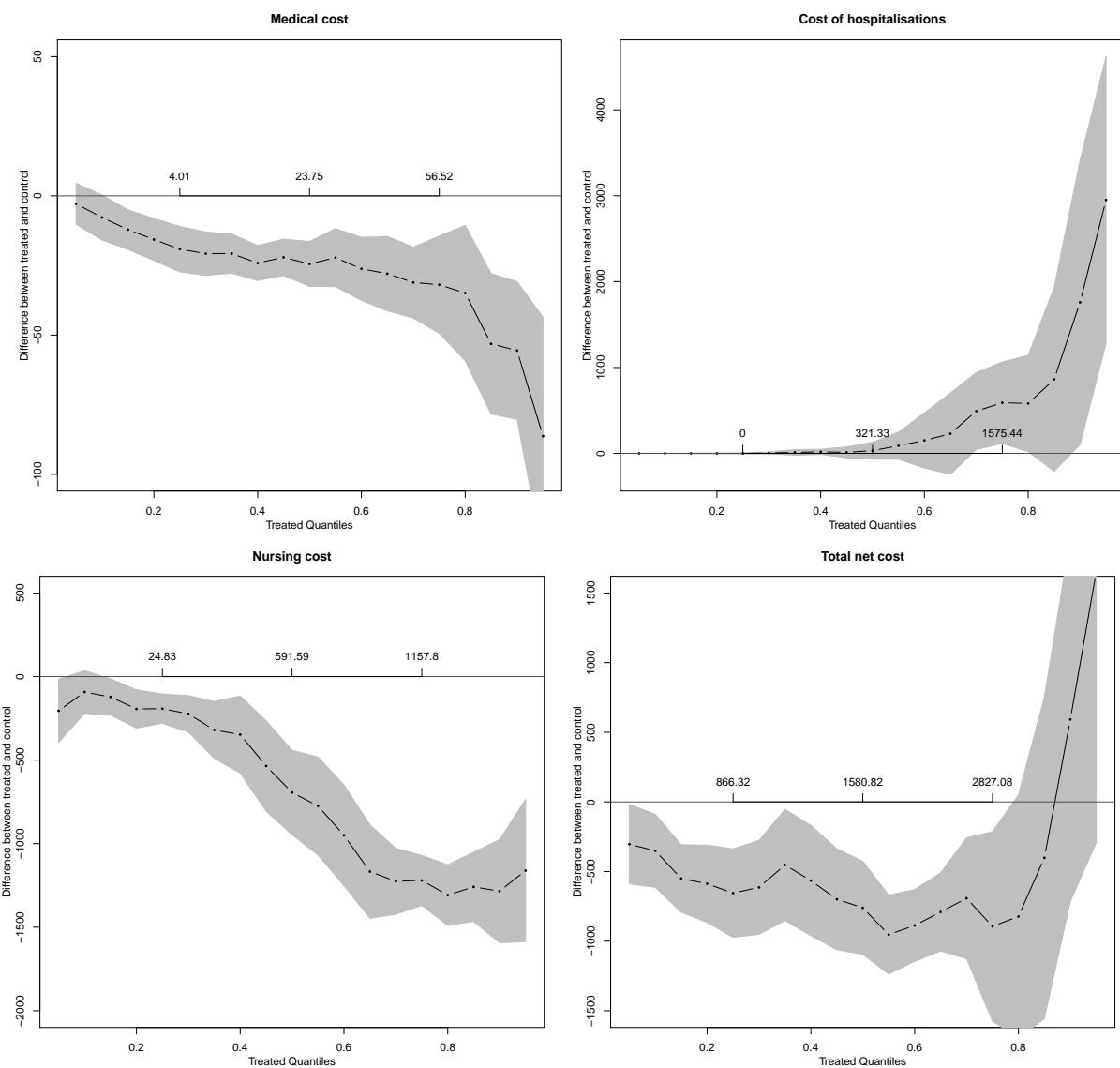


Figure 8.16: Graphs of the differences of costs between treated and control **for the NIHDI, for the group of functional and cognitive impairment, for six months** adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

### 8.1.6 Health care costs linked to disability for the patients

Table 8.15: Average costs of health care services and technical equipment for six months (per month, per patient)

	Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>										
Mean T	2.3	3.2	8.5	11.9	0	0	15	15	10.5	2.2
Mean C	6.5	7.1	8.9	15.9	0	0	30	30	2.6	0
IC95	-8.1/-0.4	-9.2/1.2	-5.4/4.3	-9.5/1.7	0/0	0/0	-24.4/-6.2	-23.7/-6.2	-1.5/18.5	0.1/5.1
<b>IADL (cogn.)</b>										
Mean T	1.8	5.8	13.9	17	0	0.1	31.5	31.5	2	0.1
Mean C	8.8	24.6	14	31.6	0	0	43.8	43.8	0	0.2
IC95	-14.8/-1.2	-34/-5.7	-7.1/6.9	-27.8/-2.9	0/0	0/0.4	-27.4/4.1	-28.8/4.1	0/7.9	-0.5/0.3
<b>Func.</b>										
Mean T	10.6	16.3	16.5	23.1	0	0	40.5	40.4	2.2	1.1
Mean C	4.3	8.8	16.6	28	0	0	43	43.2	0.1	9.2
IC95	1.9/11	0.5/14.9	-4.4/4.4	-12/1.6	0/0	0/0	-10.1/5.4	-10.8/5.7	-0.2/5.8	-17.9/-0.2
<b>Func. cogn.</b>										
Mean T	13.1	21.3	18.9	26.4	0	0.1	65.6	65.7	4.6	0
Mean C	4.3	8	14.4	24.1	0.1	0	67.5	67.6	3.9	3.4
IC95	2.3/15.5	3.2/22.6	-1/10.3	-7.7/12.8	-0.1/0	0/0.4	-11.1/7.9	-12.4/7.9	-6.5/11.3	-7.9/0

Table 8.16: Average costs of other health care services for six months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef
<b>Low limit.</b>												
Mean T	0	0	11.6	7.6	23.8	4.2	4.4	1	1	60.5	34.1	
Mean C	0	0	0	9.4	23.2	11.9	13.3	0.3	0.4	13.6	15.8	
IC95	0/0	0/0	1.9/24.7	-18.4/11.5	-40.8/46.3	-10.1/-5.2	-12.3/-6.1	0.1/1.6	-0.1/1.4	15.5/93.8	1.1/38.4	
<b>IADL</b>												
(cogn.)												
Mean T	0	0	52	40.6	50.5	3.5	4.4	0.4	0.7	57.5	25.2	
Mean C	0	31.1	11.8	1.9	24.7	7.5	14	0.3	0.5	26.2	9	
IC95	0/0	-55.9/-6.2	-5/96.8	-1.9/112.5	-49/100.9	-7.7/-0.9	-13.5/-5.9	-0.4/0.5	-0.5/1	-2.4/66.3	2.2/32	
<b>Func.</b>												
Mean T	1.5	1.4	10.7	5	18.1	5.5	6.7	0.4	0.4	98.3	76.9	
Mean C	1.3	2.6	0	19.9	21.7	7.5	11	0.3	0.3	21.3	41.3	
IC95	-2.4/3.4	-5.5/2.3	3.3/22	-32.1/-0.3	-27.6/22.9	-4/-0.2	-7.1/-1.8	-0.2/0.3	-0.2/0.3	50.7/104.9	0.8/68.9	
<b>Func.</b>												
cogn.												
Mean T	2.5	3	36.9	21.3	57.9	3.5	5	0.7	0.5	120.4	93.2	
Mean C	0	0	1.7	15.5	40.3	7.2	10.8	0.5	1	45	33.2	
IC95	0/6.5	0.5/6.9	11.3/70.2	-12.6/25.2	-37/80.2	-6.4/-1.3	-8.9/-3	-0.2/0.8	-1.2/0.1	33.8/124	19.6/107.8	

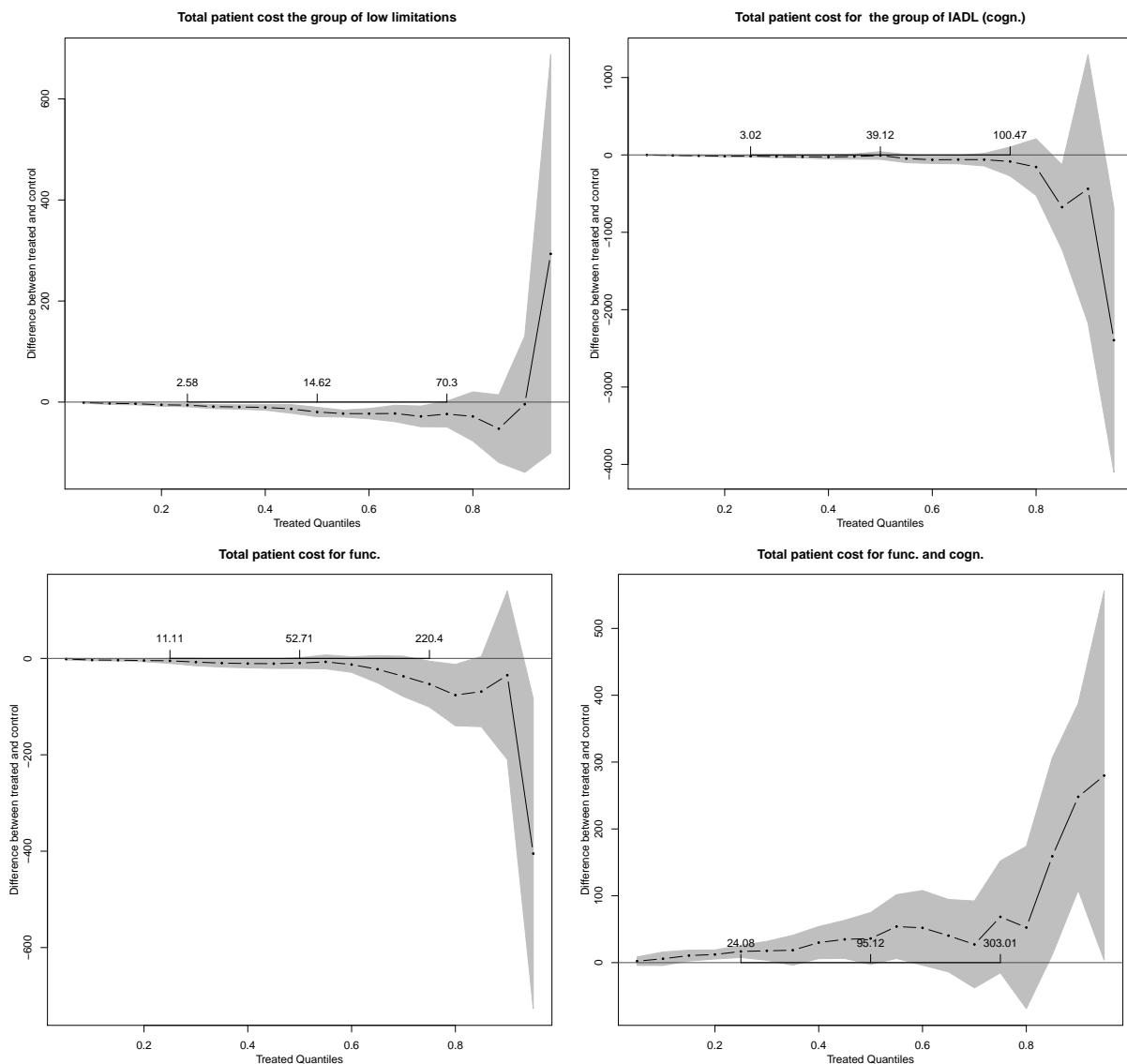


Figure 8.17: Graphs of the differences of the total cost between treated and control, **for the patients, for six months** adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

### 8.1.7 Cost differences for the stakeholders between treated and control

Table 8.17: Average cost differences between treated and control group per month (adjusted according to the level of cost before intervention, socio economic proxy and deaths)

	NIHDI Home		NIHDI Home + hosp. + inter		All NIHDI + patients + regions	
	Diff mean adj.	IC95	Diff mean adj.	IC95	Diff mean adj.	IC95
Low limit.	-212	-263.8/-152.6	-355	-472/-206.1	-386	-524.8/-199.2
IADL (cogn) or Func.	-359	-426.1/-268.8	-458	-639.9/-232.9	-513	-714.7/-260.2
Func. cogn.	-599	-735.1/-417.8	-285	-702.7/203.1	-233	-719.3/303.5

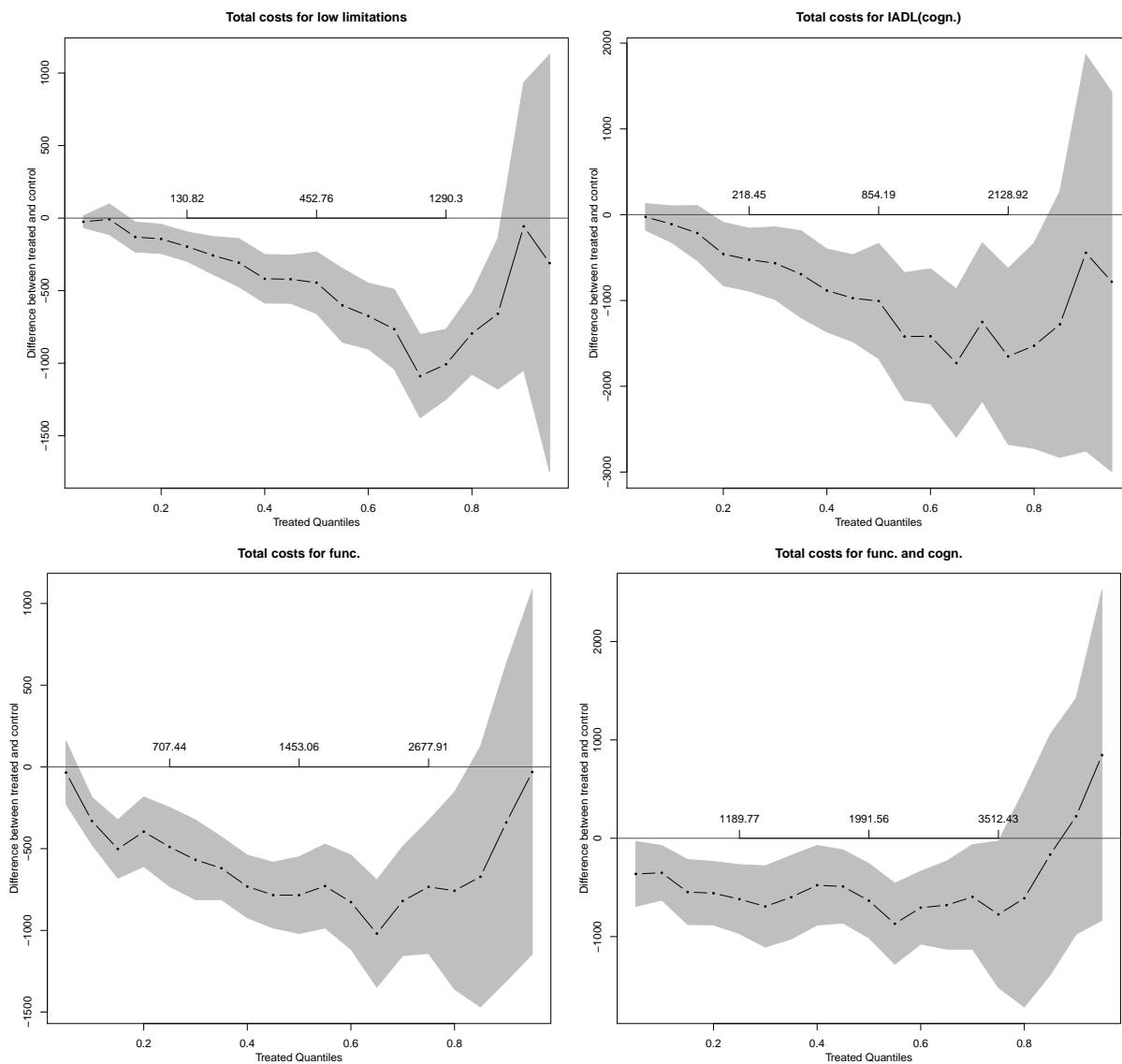


Figure 8.18: Graphs of the differences of the total cost between treated and control, **for all stakeholders, for six months** adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

### 8.1.8 Cost of social care services and informal care

Table 8.18: Average costs per month (before evaluations)

	Fam. care		Household aid		Meals-on-Wheels	
	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>						
Mean T	1472.8	1737.3	333.6	391.8	17.4	24
IC95 T	867/2175	1008/2589	235/446	263/542	8/28	11/39
Missing T (%)	36.6	46.3	28.2	36.6	28.2	36.6
Mean C	1211.6	278.9	364	348.6	13.6	11.8
IC95 C	96/3617	201/359	276/466	294/402	5/24	4/21
Missing C (%)	87.8	48.8	1.4	7	1.4	7
<b>IADL (cogn.)</b>						
Mean T	1865.9	2184.7	394.7	572.1	26.7	14.8
IC95 T	1340/2386	1641/2837	298/498	370/853	14/42	4/27
Missing T (%)	32.8	53.1	22.6	44	22.6	42.9
Mean C	1905.9	829.1	418.2	495.6	20.5	14.1
IC95 C	984/2585	319/1397	321/520	395/606	9/33	5/24
Missing C (%)	57.8	53.1	1.2	7.1	1.2	7.1
<b>Func.</b>						
Mean T	2964.8	2835.4	426.4	560.1	20.1	20.3
IC95 T	2459/3412	2303/3360	326/545	426/697	11/31	10/32
Missing T (%)	28.2	46.4	21.8	38.4	21.8	38.4
Mean C	1752.7	2002.6	410.6	511.4	27.4	25.7
IC95 C	1316/2255	1515/2544	331/497	388/652	17/39	15/36
Missing C (%)	30	31.8	7.5	6.8	7.5	6.8
<b>Func. cogn.</b>						
Mean T	3653.1	3951.7	322.4	359.8	18.1	5.8
IC95 T	3165/4102	3398/4448	220/431	242/489	7/31	0/14
Missing T (%)	26.2	52.4	20.2	41.7	20.2	41.7
Mean C	2638.3	3123.8	618.8	593.5	10.9	13.8
IC95 C	1964/3286	2467/3785	467/786	478/705	2/21	4/25
Missing C (%)	41.7	51.2	6	15.5	6	15.5

### 8.1.9 Number of days at home and in residential care facilities for six months

Table 8.19: Average number of days for 6 months

	Temp. NH		Hosp.		Def. NH		Days home		Days alive
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Aft	Aft
<b>Low limit.</b>									
Mean T	0.1	0.5	9	5	0.5	165.5	166.6	178.7	
Mean C	0.2	0.2	5.2	5.5	3.9	150.6	147.4	181.8	
Diff. TC. IC95	-0.7/0	-0.5/1	0.1/7	-2.9/2	-6.9/-1	4.4/25	9.1/30	-6.7/0	
<b>IADL (cogn.)</b>									
Mean T	5.1	4.2	18.8	8.3	5.1	155.2	155.5	175.6	
Mean C	0.9	0.2	7.2	4.2	5.8	165.2	160.8	177.4	
Diff. TC. IC95	0.2/9	0.5/10	3.4/21	0.1/8	-9.8/7	-23.7/3	-19.9/11	-10.7/6	
<b>Func.</b>									
Mean T	1.2	1.1	16	7.9	3.9	154.6	157.3	177.8	
Mean C	0.9	2.7	4.8	5.3	5.9	161.9	152.4	179.1	
Diff. TC. IC95	-1/2	-3.6/0	6/17	-0.4/6	-7.4/3	-17.8/4	-6.1/15	-5.6/3	
<b>Func. cogn.</b>									
Mean T	0.7	5.1	13.2	12.8	6.1	160.8	149.3	179.8	
Mean C	1.2	3.4	6.2	5.4	3.8	171.2	158.9	173.3	
Diff. TC. IC95	-1.8/0	-3.1/6	1/14	1.3/16	-3.6/8	-20.3/0	-25.1/5	-0.1/14	

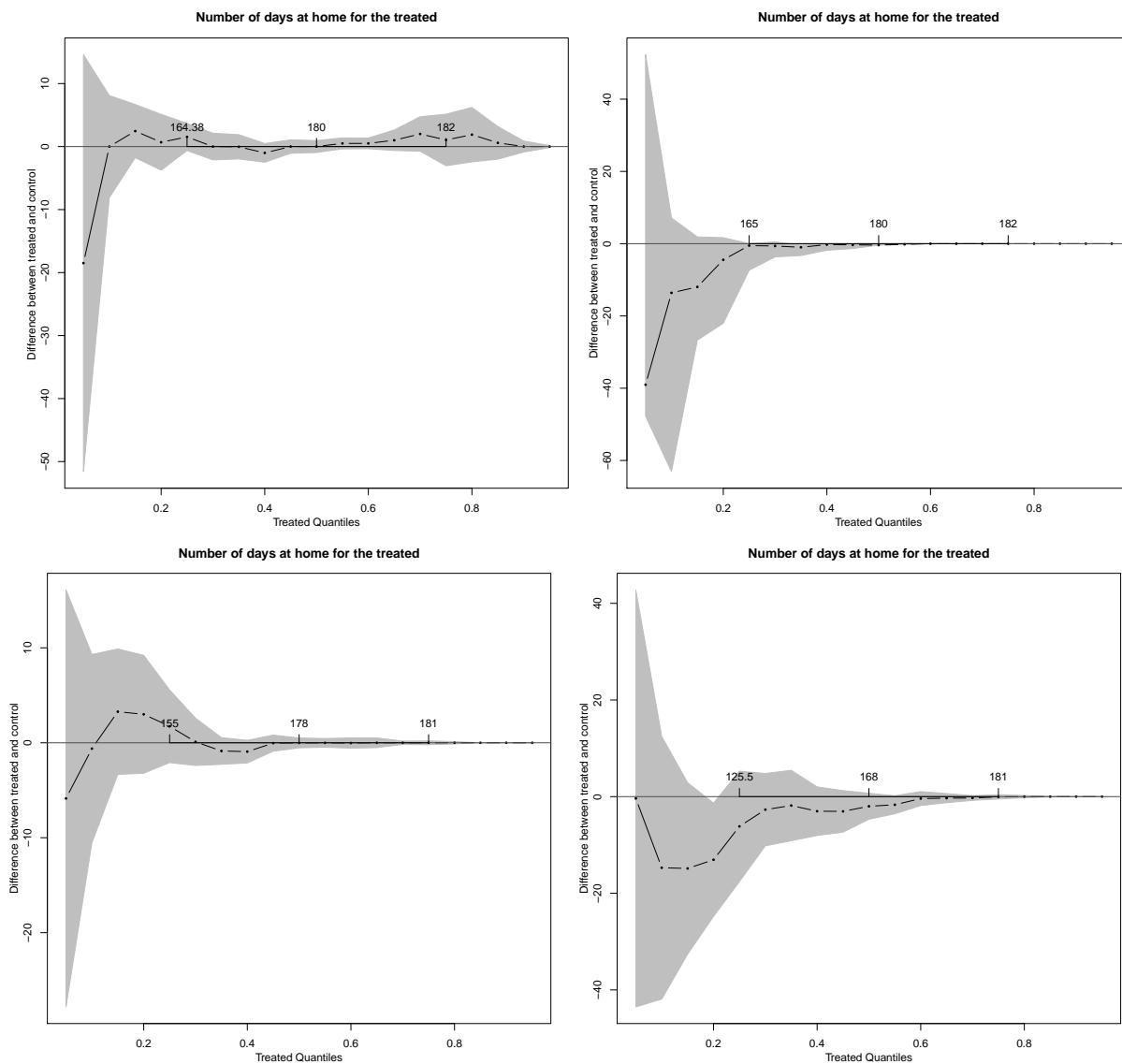


Figure 8.19: Graphs of the differences of days spent at home between treated and control, for six months and adjusted according to the number of days spent at home before intervention, the proxy of the socio economic status and the number of days alive for the six months)

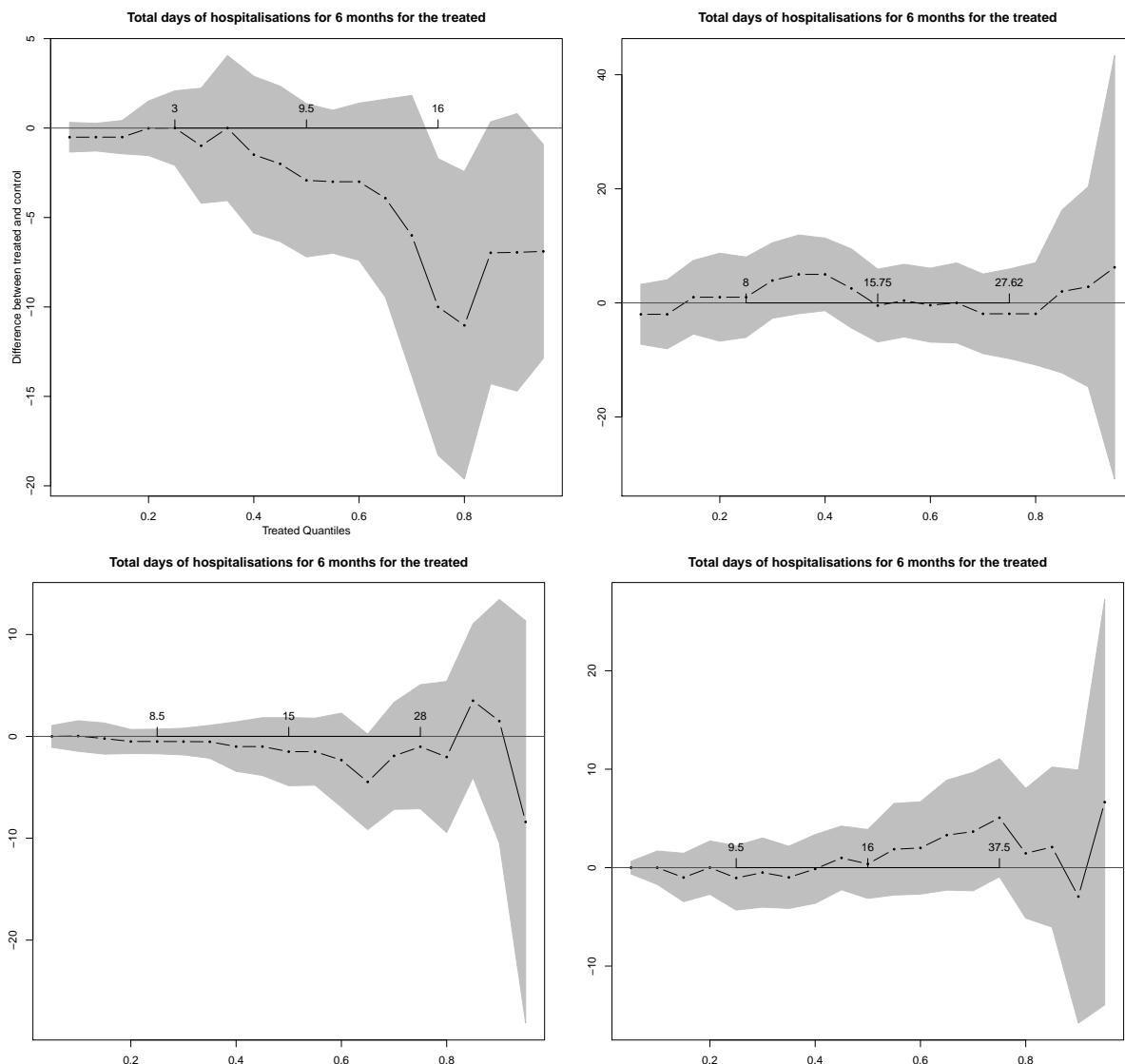


Figure 8.20: Graphs of the differences of days spent in hospital between treated and control for six months adjusted according to the proxy of the socio economic status and the number of days alive for six months

## 8.2 Comparison with the IMA control group

### 8.2.1 Description of disability groups

- At inclusion

Table 8.20: Proportion above the cut off of BelRAi scales

	No event	Nursing	Hospi	Nursing, hospi
IADL	59.70	83.62	86.84	88.10
ADL	38.81	66.10	50.00	66.67
CPS	19.90	28.25	42.11	19.05
Behav.	11.94	14.12	21.05	16.67
DRS	27.60	28.61	27.03	28.57
N	201.00	354.00	38.00	42.00

- Six months after the inclusion

Table 8.21: Proportion above the cut off of BelRAi scales

	No event	Nursing	Hospi	Nursing, hospi
IADL	65.71	87.11	87.50	84.21
ADL	38.46	67.28	62.50	63.16
CPS	25.47	28.76	56.25	21.05
Behav.	12.26	16.07	29.41	20.00
DRS	27.88	27.80	37.50	30.00
N	201.00	354.00	38.00	42.00

## 8.2.2 Description of socio-demographic variables

Table 8.22: Sociodemographic characteristics for the treated and the control group depend on the health profiles

	No event		Nursing		Hospi		Nursing, hospi	
	T	C	T	C	T	C	T	C
<b>Age</b>								
Median[IQR]	80[74-84]	79[73-83]	80[75-85]	81[76-85]	81[77-85]	82[77-86]	84[80-88]	84[80-88]
<b>Gender</b>								
% Men	31.34	44.78	34.18	33.33	39.47	28.95	23.81	33.33
% Women	68.66	55.22	65.82	66.67	60.53	71.05	76.19	66.67
<b>ICG</b>								
% No ICG	23.38	-	22.6	-	18.42	-	16.67	-
% No cohabitant	26.87	-	27.68	-	28.95	-	40.48	-
% Cohabitant	49.75	-	49.72	-	52.63	-	42.86	-
<b>Region</b>								
Bruxelles	0	9.45	0	4.8	0	10.53	0	9.52
Flandre	40.8	60.2	35.31	63.28	18.42	42.11	28.57	57.14
Wallonie	59.2	30.35	64.69	31.92	81.58	47.37	71.43	33.33
<b>Median income</b>								
Low	38.31	28.36	34.18	24.86	42.11	34.21	42.86	38.1
Medium	54.23	50.25	57.34	47.74	42.11	55.26	47.62	52.38
High	7.46	21.39	8.47	27.4	15.79	10.53	9.52	9.52
<b>N</b>								
Unique value	201	191	354	287	38	37	42	34

### 8.2.3 Utilisation of services

#### Appropriate use of services (six months post inclusion)

Table 8.23: IC difference of mean between treated and control for the dependency IMA outcomes

	Nursing Care N months		Short term institu. N stays		Day care center N days	
	Use	Users	Use	Users	Use	Users
<b>No event</b>						
% / Med[IQR] C	17.91	5[2-6]	1	92[68-117]	1	14[9-19]
% / Med[IQR] T	40.3	6[2-6]	2.49	26[11-39]	0.5	3[3-3]
OR [IC95]	2.95[1.89/4.83]		-[-/-]		-[-/-]	
<b>Nursing</b>						
% / Med[IQR] C	85.03	6[6-6]	5.65	34[12-78]	5.93	35[9-86]
% / Med[IQR] T	87.57	6[5-6]	6.21	14[9-54]	2.82	21[8-39]
OR [IC95]	1.38[0.87/2.19]		1.04[0.55/2.06]		3.33[0.64/136066707.03]	
<b>Hospi.</b>						
% / Med[IQR] C	31.58	5[2-6]	2.63	13[13-13]	0	-
% / Med[IQR] T	42.11	3[2-6]	2.63	24[24-24]	2.63	14[14-14]
OR [IC95]	1.72[0.63/5.05]		-[-/-]		-[-/-]	
<b>Nursing, Hospi</b>						
% / Med[IQR] C	85.71	6[6-6]	9.52	72[70-72]	0	-
% / Med[IQR] T	83.33	6[4-6]	7.14	35[22-38]	0	-
OR [IC95]	0.79[0.19/3.87]		-[-/-]		-[-/-]	

Table 8.24: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated at inclusion)

	No event		Nursing		Hospi		Nursing, hospi	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim								
ADL or Incont	0(0)	100(19)	100(4.9)	0(0)	0(0)	100(2.7)	-(0)	-(0)
Low lim, ADL & Incont	0(0)	100(2.1)	100(0.9)	0(0)	-(0)	-(0)	-(0)	-(0)
ADL lim	0(0)	100(34.9)	100(38.1)	0(0)	0(0)	100(35.1)	100(23.1)	0(0)
Incont	0(0)	100(4.1)	100(0.3)	0(0)	-(0)	-(0)	-(0)	-(0)
ADL & Incont lim	0(0)	100(25.6)	100(45.1)	0(0)	0(0)	100(37.8)	100(56.4)	0(0)
ADL ? No Incont	0(0)	100(14.4)	100(10.8)	0(0)	0(0)	100(24.3)	100(20.5)	0(0)
tot	0(0)	100(100)	100(100)	0(0)	0(0)	100(100)	100(100)	0(0)

Table 8.25: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated second eval)

	No event		Nursing		Hospit		Nursing, hospi	
	N.	W. N.	N.	W. N.	N.	W. N.	N.	W. N.
No lim								
ADL or Incont	18.9(3.6)	81.1(15.4)	76.5(3.8)	23.5(1.2)	0(0)	100(2.7)	-(0)	-(0)
Low lim, ADL & Incont	0(0)	100(2.1)	66.7(0.6)	33.3(0.3)	-(0)	-(0)	-(0)	-(0)
ADL lim	45.6(15.9)	54.4(19)	90.8(34.6)	9.2(3.5)	38.5(13.5)	61.5(21.6)	88.9(20.5)	11.1(2.6)
Incont	50(2.1)	50(2.1)	100(0.3)	0(0)	-(0)	-(0)	-(0)	-(0)
ADL & Incont lim	46(11.8)	54(13.8)	87.7(39.5)	12.3(5.5)	64.3(24.3)	35.7(13.5)	81.8(46.2)	18.2(10.3)
ADL ? No Incont	53.6(7.7)	46.4(6.7)	83.8(9)	16.2(1.7)	22.2(5.4)	77.8(18.9)	75(15.4)	25(5.1)
tot	41(41)	59(59)	87.8(87.8)	12.2(12.2)	43.2(43.2)	56.8(56.8)	82.1(82.1)	17.9(17.9)

### Appropriate use of services (twelve months post inclusion)

Table 8.26: IC differnce of mean between treated and control for the dependency IMA outcomes

	Nursing Care N months		Short term institu. N stays		Day care center N days	
	Use	Users	Use	Users	Use	Users
<b>No event</b>						
% / Med[IQR] C	21.89	5[2-10]	1.99	75[50-102]	1	31[26-36]
% / Med[IQR] T	42.29	7[2-10]	5.47	39[27-40]	1	49[48-51]
OR [IC95]	2.77[1.81/4.4]		2.2[0.67/19.02]		-[-/-]	
<b>Nursing</b>						
% / Med[IQR] C	77.4	12[10-12]	10.73	41[19-75]	6.21	91[14-98]
% / Med[IQR] T	66.67	9[5-12]	11.86	19[12-57]	2.82	50[17-100]
OR [IC95]	0.58[0.37/0.86]		1.06[0.63/1.87]		1.82[0.3/58984041.39]	
<b>Hosp.</b>						
% / Med[IQR] C	34.21	5[2-12]	13.16	6[5-13]	2.63	4[4-4]
% / Med[IQR] T	28.95	3[2-9]	7.89	24[16-42]	5.26	13[12-14]
OR [IC95]	0.91[0.27/3.22]		-[-/-]		-[-/-]	
<b>Nursing, Hosp.</b>						
% / Med[IQR] C	71.43	12[7-12]	11.9	128[65-128]	2.38	7[7-7]
% / Med[IQR] T	59.52	6[4-10]	11.9	30[22-35]	0	-
OR [IC95]	0.32[0.04/0.9]		-[-/-]		-[-/-]	

### Inappropriate use of services (six months post inclusion)

Table 8.27: IC difference of mean between treated and control for the low value IMA outcomes

	Emergency N visits		GP out-of hours N visits		Hospitalisation N visits	
	Use	Users	Use	Users	Use	Users
<b>No event</b>						
% / Med[IQR] C	22.39	1[1-2]	7.96	1[1-1]	23.38	1[1-2]
% / Med[IQR] T	18.91	1[1-2]	10.45	1[1-2]	27.36	1[1-1]
OR [IC95]	0.77[0.46/1.25]		1.52[0.79/3.26]		1.52[0.91/2.44]	
<b>Nursing</b>						
% / Med[IQR] C	26.55	1[1-2]	14.12	1[1-2]	33.05	1[1-2]
% / Med[IQR] T	22.6	1[1-2]	15.82	1[1-1]	31.07	1[1-2]
OR [IC95]	0.99[0.68/1.4]		1.3[0.84/2.05]		1.39[0.92/2.08]	
<b>Hosp.</b>						
% / Med[IQR] C	34.21	1[1-2]	13.16	1[1-1]	36.84	1[1-2]
% / Med[IQR] T	18.42	1[1-2]	7.89	1[1-1]	28.95	1[1-2]
OR [IC95]	0.49[0.11/1.5]		-[-/-]		0.7[0.24/1.96]	
<b>Nursing, Hosp</b>						
% / Med[IQR] C	33.33	2[1-2]	23.81	2[1-2]	42.86	1[1-2]
% / Med[IQR] T	26.19	1[1-1]	11.9	1[1-1]	35.71	1[1-2]
OR [IC95]	0.75[0.23/1.92]		0.41[0.06/1.81]		0.73[0.26/1.8]	

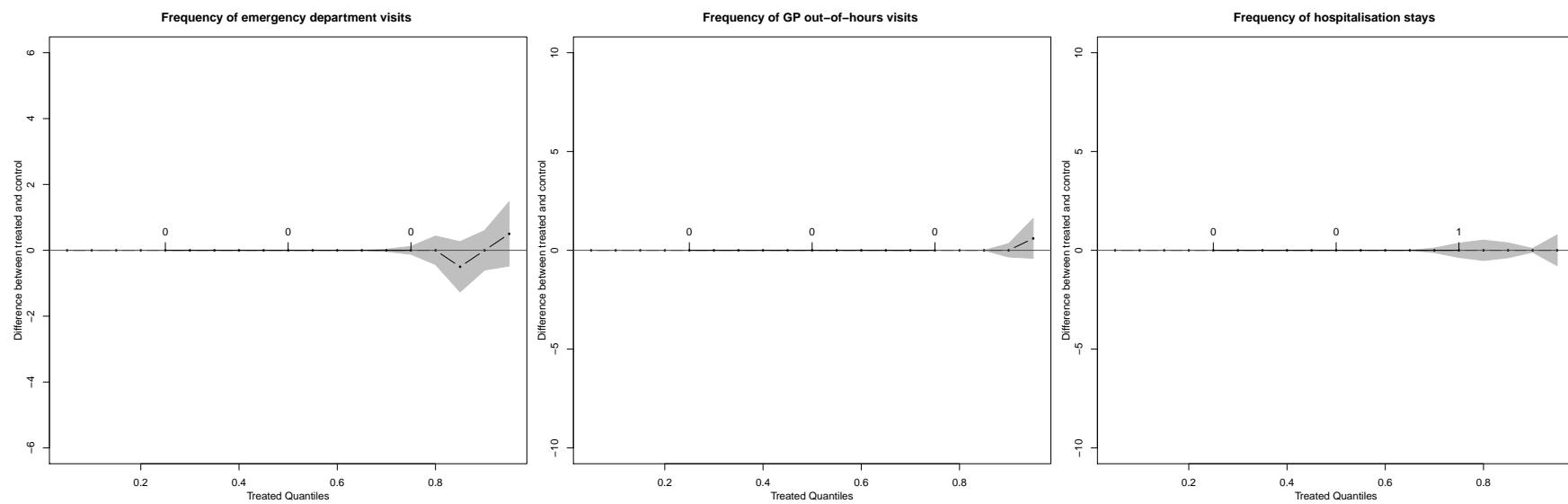


Figure 8.21: Regression quantile of inappropriate use of services (No event)

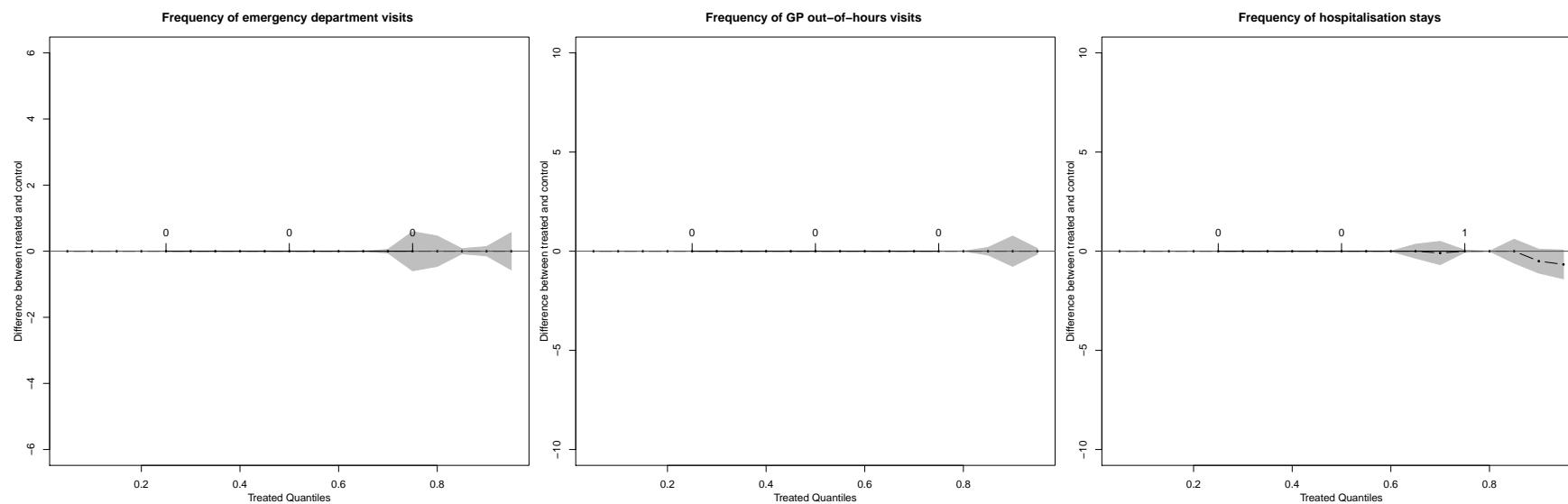


Figure 8.22: Regression quantile of inappropriate use of services (Nursing)

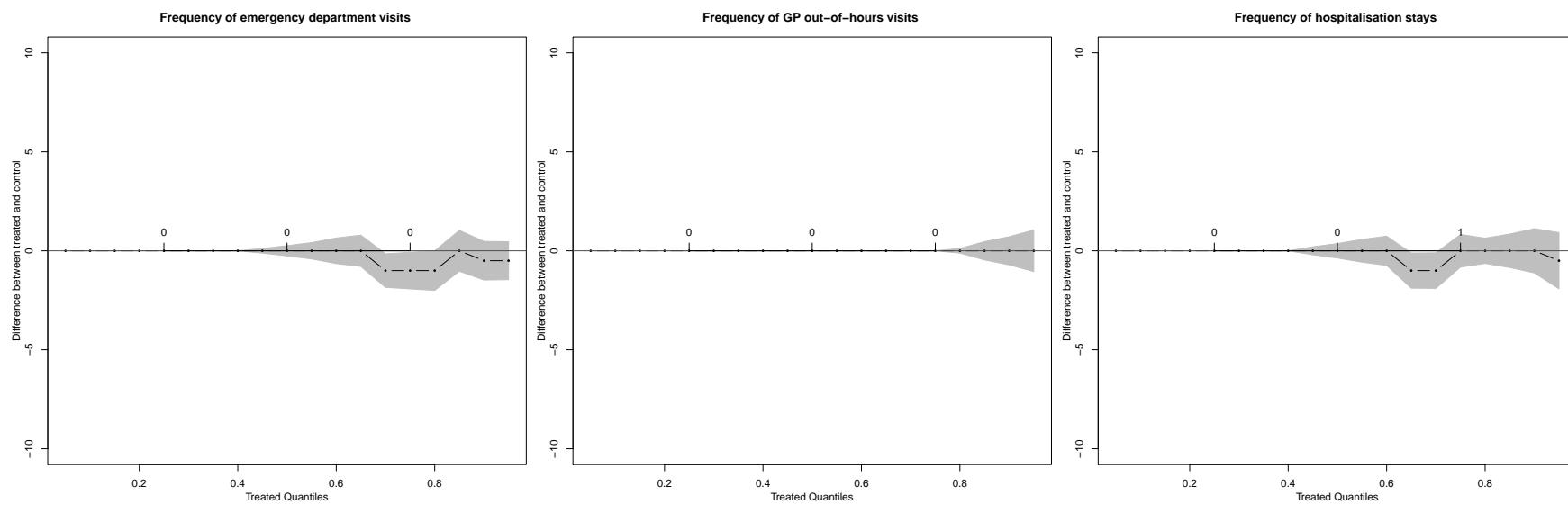


Figure 8.23: Regression quantile of inappropriate use of services (Hospi.)

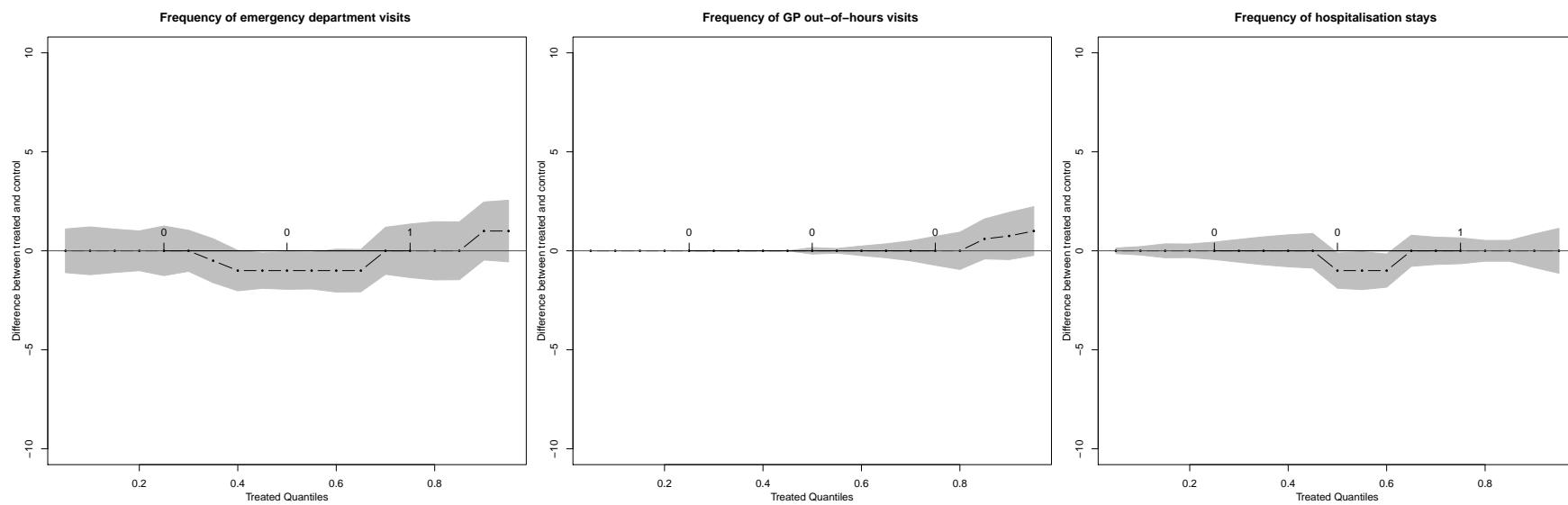


Figure 8.24: Regression quantile of inappropriate use of services (STI)

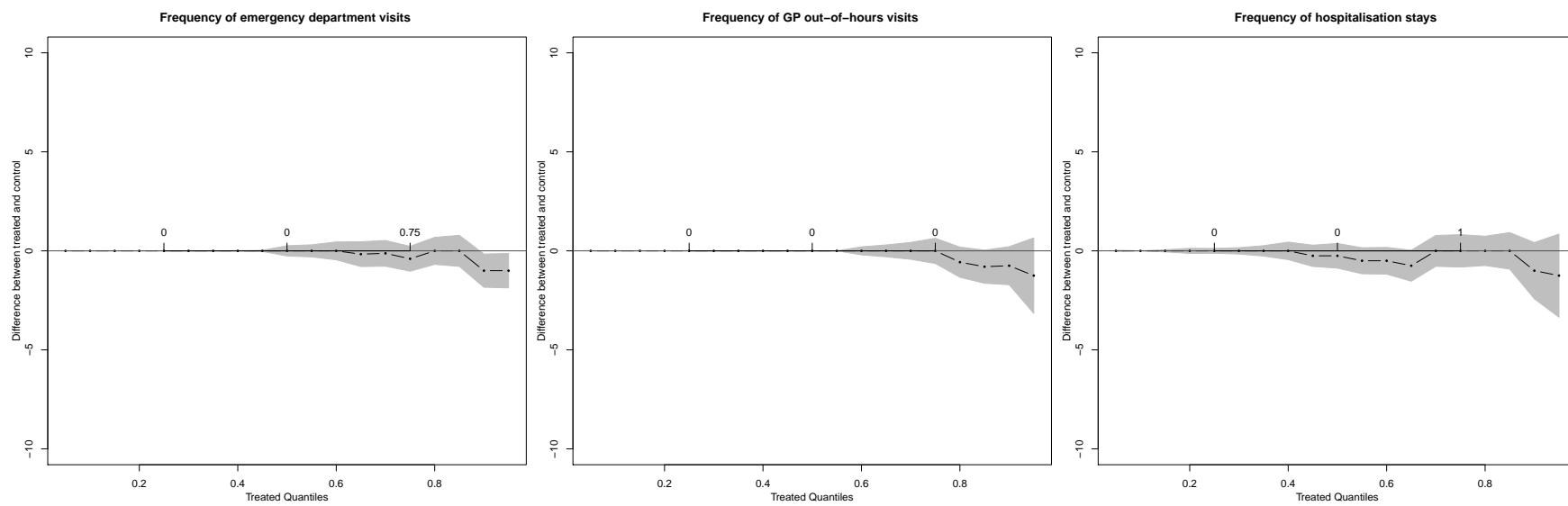


Figure 8.25: Regression quantile of inappropriate use of services (Nursing & Hospi.)

## Inappropriate use of services (twelve months post inclusion)

Table 8.28: IC difference of mean between treated and control for the low value IMA outcomes

	Emergency N visits		GP out-of hours N visits		Hospilisation N visits	
	Use	Users	Use	Users	Use	Users
<b>No event</b>						
% / Med[IQR] C	35.32	1[1-2]	17.41	1[1-1]	19.4	1[1-2]
% / Med[IQR] T	18.91	1[1-2]	15.42	1[1-2]	24.38	1[1-2]
OR [IC95]	0.37[0.22/0.6]		0.88[0.49/1.55]		1.32[0.76/2.27]	
<b>Nursing</b>						
% / Med[IQR] C	47.74	1[1-2]	24.29	1[1-2]	31.07	2[1-3]
% / Med[IQR] T	22.6	1[1-2]	24.01	1[1-2]	29.1	1[1-2]
OR [IC95]	0.35[0.24/0.49]		1.15[0.78/1.66]		1.09[0.77/1.54]	
<b>Hospi.</b>						
% / Med[IQR] C	47.37	2[1-2]	23.68	1[1-2]	21.05	1[1-3]
% / Med[IQR] T	18.42	1[1-2]	15.79	1[1-1]	18.42	1[1-2]
OR [IC95]	0.26[0.06/0.71]		0.61[0.1/2.22]		0.8[0.2/2.76]	
<b>Nursing, Hospi</b>						
% / Med[IQR] C	59.52	1[1-3]	28.57	2[1-4]	45.24	2[1-3]
% / Med[IQR] T	26.19	1[1-1]	19.05	1[1-2]	28.57	1[1-2]
OR [IC95]	0.29[0.09/0.74]		0.59[0.15/1.82]		0.5[0.18/1.32]	

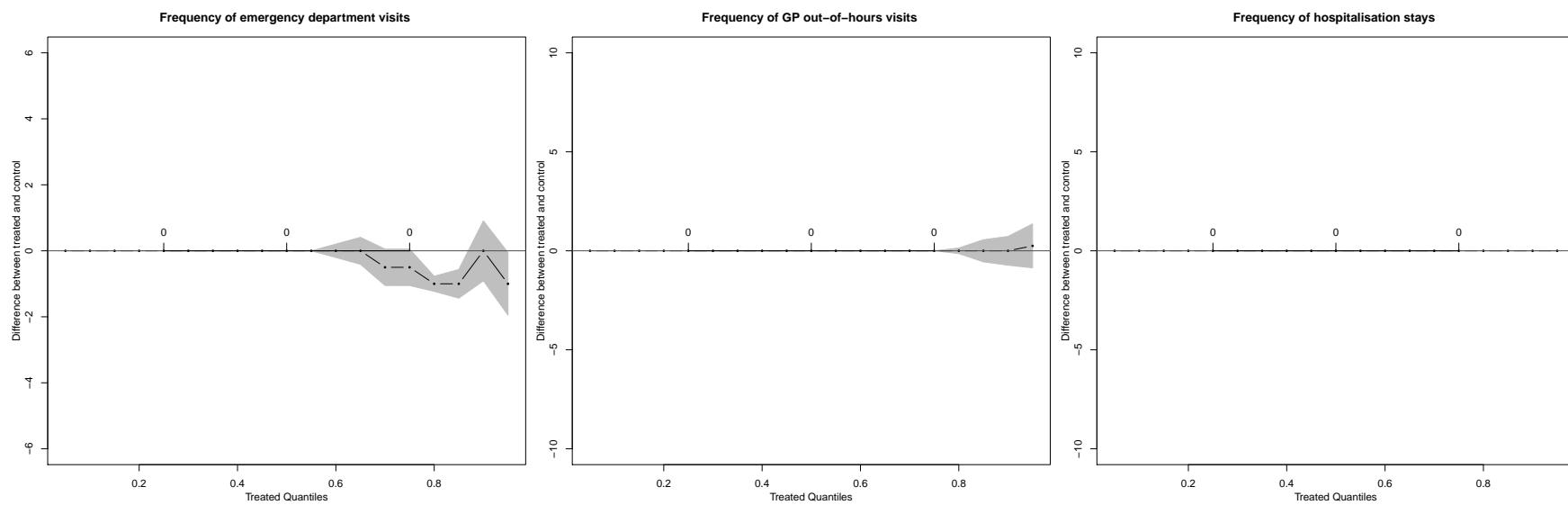


Figure 8.26: Regression quantile of inappropriate use of services (No event)

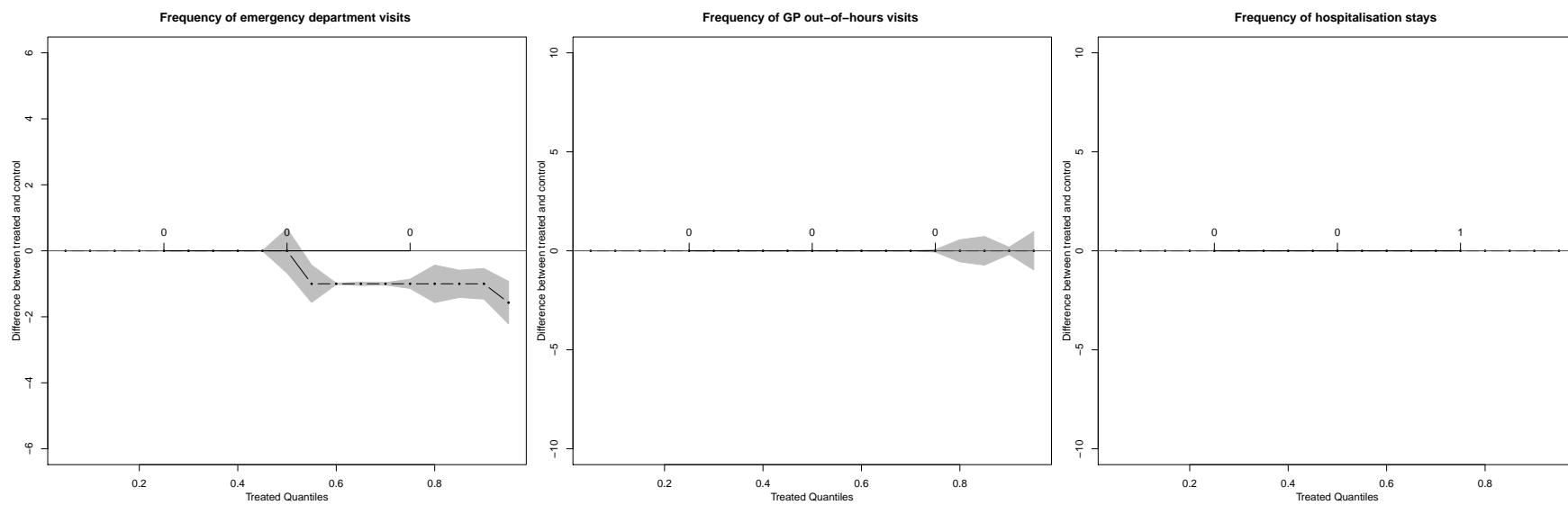


Figure 8.27: Regression quantile of inappropriate use of services (Nursing)

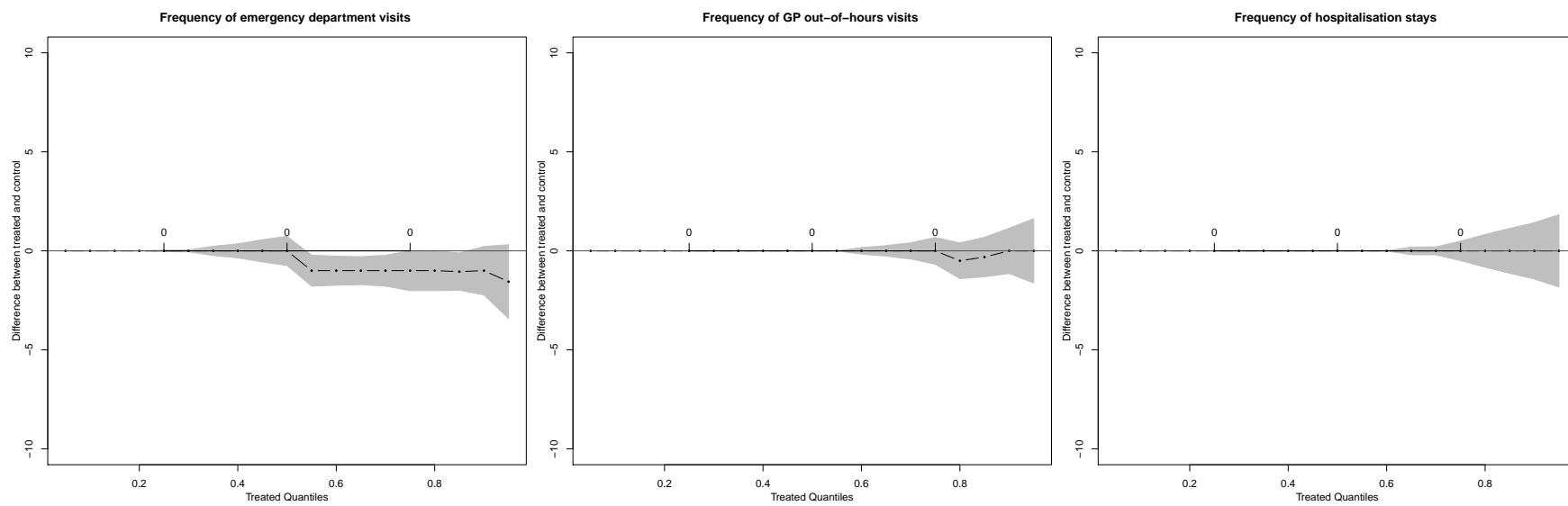


Figure 8.28: Regression quantile of inappropriate use of services (Hospi.)

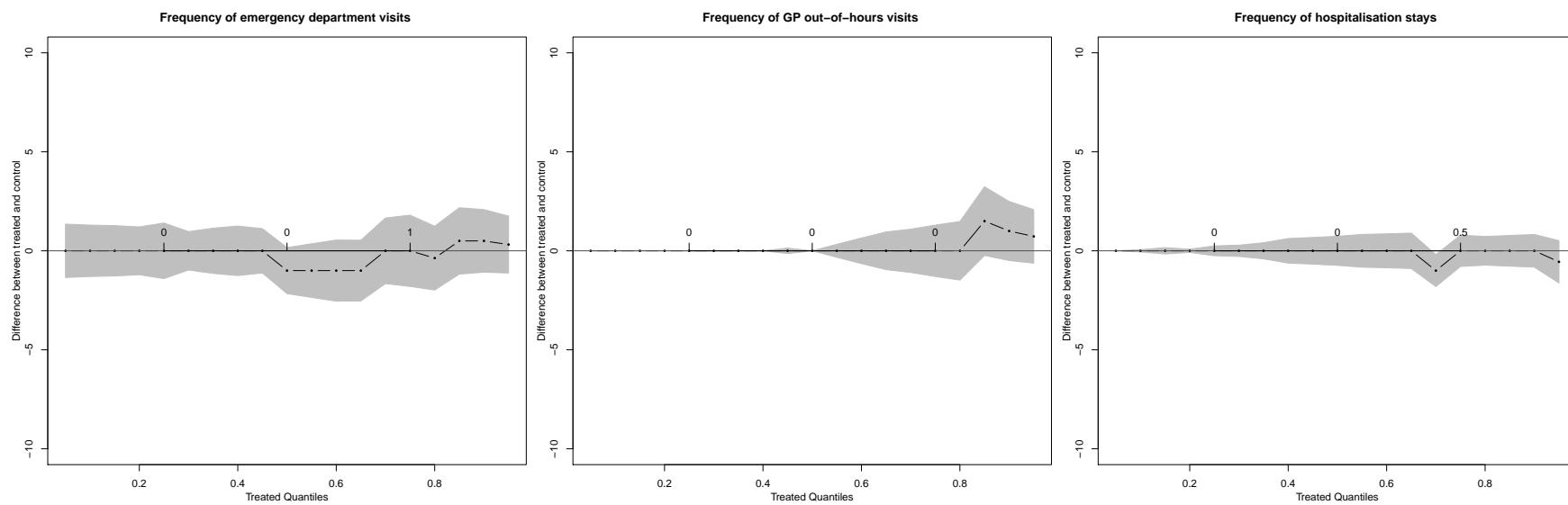


Figure 8.29: Regression quantile of inappropriate use of services (STI)

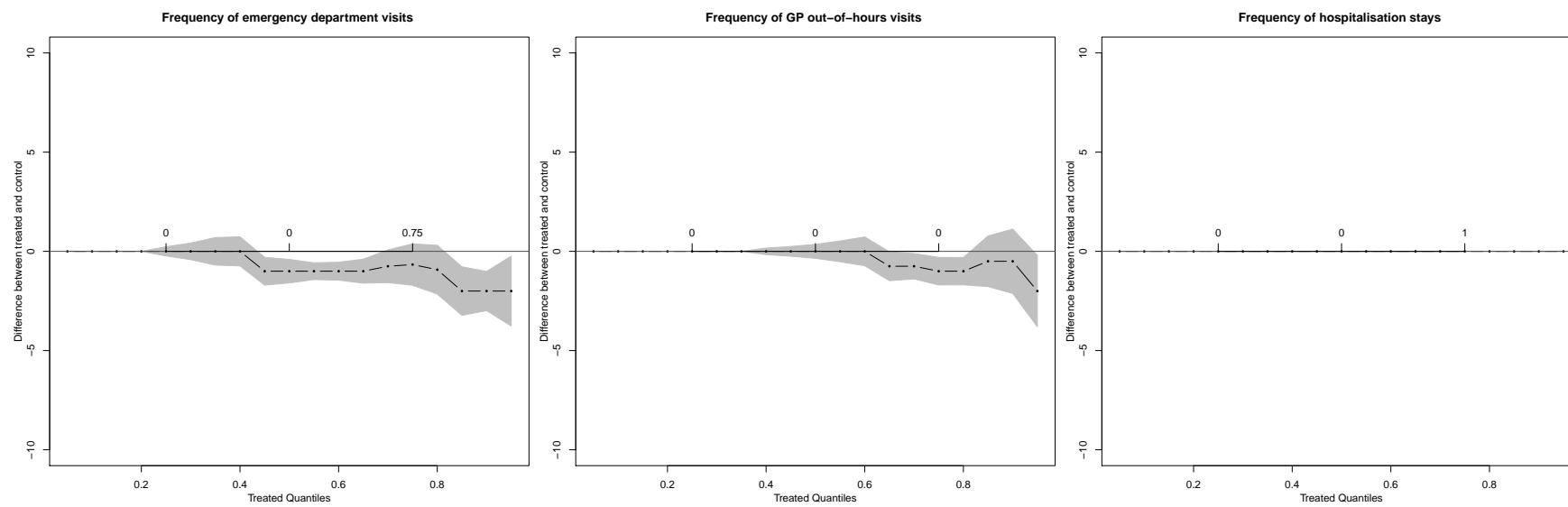


Figure 8.30: Regression quantile of inappropriate use of services (Nursing & Hospi.)

**Definitive institutionalisation and death (six months post inclusion)**

Table 8.29: IC of ratio of incidence rate between treated and control for the death and the definitive institutionalisation

	Definitive institu.	Death
<b>No event</b>		
IR T	0.0035	0.0121
IR C	0.0051	0.0017
IC95	0.19/2.45	1.66/32.08
<b>Nursing</b>		
IR T	0.0091	0.0147
IR C	0.0139	0.0024
IC95	0.36/1.18	2.42/16.06
<b>Hospi.</b>		
IR T	0.0154	0.0343
IR C	0.0357	0
IC95	0.11/1.66	NaN/Inf
<b>Nursing, Hospi</b>		
IR T	0.0083	0.0123
IR C	0.0348	0
IC95	0.05/1.13	NaN/Inf

Table 8.30: Proportion of utilisation of definitive institutionalization depend on the levels of presence of icg and BelRAI profiles

	No event				Nursing			
	W	No Coh	Coh	tot	W	No Coh	Coh	tot
<b>low limit.</b>								
<b>IADL, (cogn.)</b>								
%	0(0)	0(0)	0(0)	0(0)	16.7(5)	10(1)	0(0)	10.9(1.4)
% zarit	/	0	/	/	/	100	-	/
<b>func.</b>								
%	0(0)	25(5.6)	0(0)	10.7(1.5)	14.3(1.2)	16.7(3.1)	6.7(0.6)	12.5(1.4)
% zarit	/	-	-	/	-	75	100	83.3
<b>func., cogn.</b>								
%	0(0)	8.3(1.9)	2.4(1)	3.3(1)	7.5(3.8)	12.1(7.1)	8.6(3.4)	9.5(4.5)
% zarit	-	-	-	-	/	66.7	75	/
<b>func., cogn., behav.</b>								
%	-(0)	-(0)	66.7(2)	66.7(1)	0(0)	0(0)	10(0.6)	8.3(0.3)
% zarit	-	-	100	100	-	-	100	100
<b>tot</b>								
%	0(0)	7.4(7.4)	6(6)	5(5)	12.5(12.5)	14.3(14.3)	9.1(9.1)	11.3(11.3)
% zarit	-	0	80	66.7	-	70	75	73.1

Table 8.31: Proportion of utilisation of definitive institutionalization depend on the levels of presence of icg and BelRAI profiles

Hospi				Nursing, hospi					
	W	No Coh	Coh	tot		W	No Coh	Coh	tot
<b>low limit.</b>									
%	0(0)	0(0)	0(0)	0(0)	50(14.3)	0(0)	0(0)	20(2.4)	
% zarit	-	-	-	-	-	/	-	/	
<b>IADL, (cogn.)</b>									
%	0(0)	33.3(9.1)	0(0)	16.7(2.6)	50(14.3)	0(0)	-(0)	16.7(2.4)	
% zarit	/	-	-	/	-	-	-	-	
<b>func.</b>									
%	33.3(14.3)	50(9.1)	0(0)	15.4(5.3)	0(0)	20(11.8)	16.7(5.6)	15.8(7.1)	
% zarit	-	-	/	/	-	0	100	50	
<b>func., cogn.</b>									
%	-(0)	0(0)	20(10)	13.3(5.3)	-(0)	0(0)	10(5.6)	9.1(2.4)	
% zarit	-	100	-	100	-	100	/	100	
<b>func., cogn., behav.</b>									
%	-(0)	-(0)	-(0)	-(0)	-(0)	-(0)	100(5.6)	100(2.4)	
% zarit	-	-	-	-	-	-	-	-	
<b>tot</b>									
%	14.3(14.3)	18.2(18.2)	10(10)	13.2(13.2)	28.6(28.6)	11.8(11.8)	16.7(16.7)	16.7(16.7)	
% zarit	-	100	-	100	-	50	100	66.7	

**Definitive institutionalisation and death (twelve months post inclusion)**

Table 8.32: IC of ratio of incidence rate between treated and control for the death and the definitive institutionalisation

	Definitive institu.	Death
<b>No event</b>		
IR T	0.0046	0.0121
IR C	0.0056	0.0034
IC95	0.36/1.85	1.63/7.9
<b>Nursing</b>		
IR T	0.0109	0.012
IR C	0.01	0.0073
IC95	0.7/1.7	1.04/2.59
<b>Hospi.</b>		
IR T	0.0144	0.0265
IR C	0.027	0.0067
IC95	0.18/1.55	1.1/14.46
<b>Nursing, Hospi</b>		
IR T	0.0167	0.0175
IR C	0.03	0.0104
IC95	0.22/1.42	0.55/5.17

### 8.2.4 Health care costs linked to disability for the NIHDI

Table 8.33: Average costs of health care services and technical equipment for six months (per month, per patient)

	Interv.		Nurs.		Phys.		Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>														
Mean T	0	57.9	5.6	179	32.6	78.5	2.7	13.8	3.4	9.9	5	4.4		
Mean C	0	0	7.2	29.9	31	36.1	0.8	3.8	2.6	4.7	4.5	1.2		
IC95	0/0	54.4/61	-5.9/3	95.7/206	-11.3/15	22.5/60	-0.3/4	-0.6/20	-4/6	-1.2/12	-6.3/7	-1.4/10		
<b>Nursing</b>														
Mean T	0	62	499.9	617.4	103.5	117.7	24.4	26.4	16.8	19.6	3.1	3		
Mean C	0	0	395.8	483.7	77	76.7	7.9	8.1	21.2	18.2	2.2	2.2		
IC95	0/0	59.7/64	44/168	65/197	11.4/42	24/59	2.9/34	9/29	-11/2	-6.3/8	-2.5/4	-3.6/7		
<b>Hospi</b>														
Mean T	0	46.9	10.5	174.6	46	92.9	7.9	18.5	2.8	8.2	5.9	0		
Mean C	0	0	4.8	65	20.2	25.8	0.8	0.2	0.6	1.4	0	0		
IC95	0/0	39.9/53	-4/18	-17.4/268	4.7/46	22.9/118	-0.1/17	0.6/40	-0.9/7	-1/18	0/18	0/0		
<b>Nursing, hospi</b>														
Mean T	0	66.7	306.9	487.8	78.9	119.6	2.8	34.9	17.8	18.8	0	8		
Mean C	0	0	353.4	471.4	82.5	108.5	2.2	26.3	11.8	27.5	0	10.7		
IC95	0/0	60.2/73	-187.2/103	-194.8/227	-50.7/41	-50.6/73	-3.2/4	-28/61	-15.7/24	-25.2/6	0/0	-18.5/13		

Table 8.34: Average costs of other health care services for six months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>												
Mean T	0	0.1	9.2	6.5	11.1	19.1	29.4	3.2	2.4	1368.3	1081.5	
Mean C	1.4	1.1	0	7.1	32.8	18.3	23.4	4.4	3.8	599.2	428.5	
IC95	-3.8/0	-3.1/0	1.4/20	-14.7/11	-54.3/8	-3.6/5	-0.9/13	-3.2/1	-4.3/1	400.9/1171	295.6/1077	
<b>Nursing</b>												
Mean T	4.6	5.8	10.5	15.8	39.6	33.7	41.5	1.8	1.9	1232.4	949.7	
Mean C	15.2	26.9	0.3	23.2	70.2	42.7	40.8	3.2	3.1	1237.3	896.6	
IC95	-19.3/-2	-35.9/-9	2.5/19	-24.2/9	-69.6/6	-13.9/-4	-6/8	-2.7/0	-2.5/0	-319.8/289	-258/344	
<b>Hospi</b>												
Mean T	4.2	3.5	0	13.9	57.2	23.1	20.9	1.4	4.7	2995.7	2317.5	
Mean C	0	0	0	3.7	203.7	22.7	24.2	0.8	1.2	1388.4	886.8	
IC95	0/13	0/11	0/0	0/31	-337.7/22	-8.9/12	-16.2/11	-1.4/2	-1.5/13	518.4/2781	188.3/2974	
<b>Nursing, hospi</b>												
Mean T	0	0	2.7	18.6	6.5	41.9	36.9	1.6	0.9	1837	2100.5	
Mean C	0	0	0	67.8	120.9	49.1	51	0.8	0.6	2487.4	2228.9	
IC95	0/0	0/0	0/8	-122.9/13	-210.7/-35	-22.7/7	-33.5/4	-0.9/3	-0.9/2	-1458/73	-1725.4/1388	

Table 8.35: Average costs of health care services and technical equipment for twelve months (per month, per patient)

	Interv.		Nurs.		Phys.		Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>														
Mean T	0	55.1	6.9	213.5	29.1	86.8	2.5	9.2	3.5	8.8	4.2	2.8		
Mean C	0	0	3.8	35.9	18.6	36.5	0.7	2.4	1.9	5	2.3	2.3		
IC95	0/0	51.7/58	0.3/6	118.5/242	0.8/21	32.1/70	0.2/4	1.2/12	-2.4/6	-2.4/10	-1.4/6	-2.8/4		
<b>Nursing</b>														
Mean T	0	57.4	474.8	608.1	99.4	116.7	19.7	19.1	16	20.8	2.5	3.7		
Mean C	0	0	253.2	485.7	50	73.3	4.6	7.4	13.5	20.5	1.7	2.1		
IC95	0/0	55/60	170.6/276	52.9/193	35.8/64	25.8/60	6.4/26	5.9/18	-1.4/7	-6.2/7	-1.3/3	-2.4/8		
<b>Hosp.</b>														
Mean T	0	43.9	5.3	197.2	33.4	83.8	4.3	11.9	1.8	8.9	2.9	0		
Mean C	0	0	2.8	66.1	11.3	17	2.6	0.6	0.4	1.7	0	0		
IC95	0/0	36.1/51	-2.6/9	12.3/281	6.9/38	27.5/104	-4.4/8	0.2/26	-0.4/4	0.9/14	0/9	0/0		
<b>Nursing, hospi.</b>														
Mean T	0	59.8	311	434.6	71.8	98.4	3.5	19.5	16.1	15.1	2.7	5.3		
Mean C	0	0	247.4	462.7	56.8	103	1.1	15.8	12	23.1	0	7.9		
IC95	0/0	130.9/144	-54.5/28	-127.2/-13	-28/-3	5.3/35	-1.8/5	-1.3/13	-5.2/6	-15.3/-2	-5.6/2	-0.7/6		

Table 8.36: Average costs of other health care services for twelve months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>												
Mean T	0	1.9	4.6	11.4	28.5	20.3	33.4	2.8	2.4	860.2	1159.4	
Mean C	1.2	1.3	0	7.1	47	11.9	23.5	3.1	3.9	599.9	524.8	
IC95	-2.8/0	-2.3/4	0.6/10	-6.7/16	-54.5/17	5/12	4.2/16	-2.1/2	-4.7/1	11.9/510	259.5/1051	
<b>Nursing</b>												
Mean T	4	6.9	5.9	17.9	84.5	34.4	42.5	1.8	1.6	1097.1	1056	
Mean C	8.3	26.3	0.2	25.3	97.8	28.7	40.1	2.2	2.7	1201.5	866.7	
IC95	-9.4/2	-32.9/-7	2.1/11	-20.9/4	-58.7/30	1.5/10	-4.3/10	-1.2/0	-2.2/0	-350.8/145	-72.9/464	
<b>Hospi</b>												
Mean T	3.6	4.8	0	22.4	100.7	22	21.5	1.1	4.3	1640.8	2030.5	
Mean C	0	0.6	0	10.6	234.5	15	24.8	0.5	1.6	794.8	665.7	
IC95	0/11	-1.1/13	0/0	-15.7/47	-310.1/55	-0.6/17	-16/10	-0.4/2	-2.4/11	218.9/1624	133.4/3121	
<b>Nursing, Hospi</b>												
Mean T	0	0	1.4	14.4	93.9	40.9	33	1.3	0.5	1097.3	1893.4	
Mean C	0	0.9	0	61.2	185.8	33.8	51.9	0.6	0.7	1446.2	1909.4	
IC95	0/0	-2.8/0	0/4	-113.8/2	-242.8/51	-5.5/19	-39.7/-1	-0.7/2	-1.3/1	-828.6/128	-1118.6/1242	

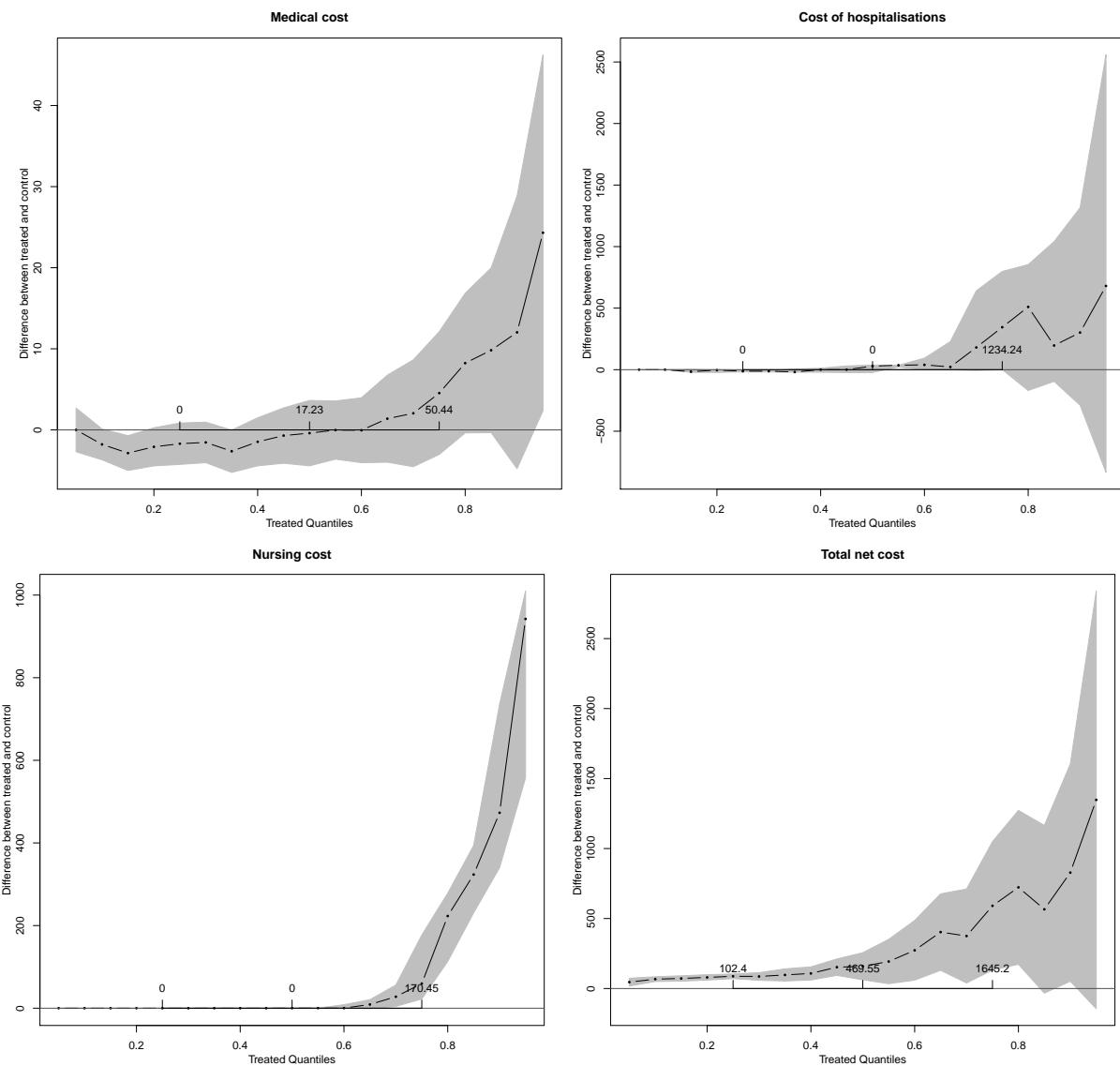


Figure 8.31: Graphs of the differences of costs between treated and control **for the NIHDI, for the group of No event, for six months** adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

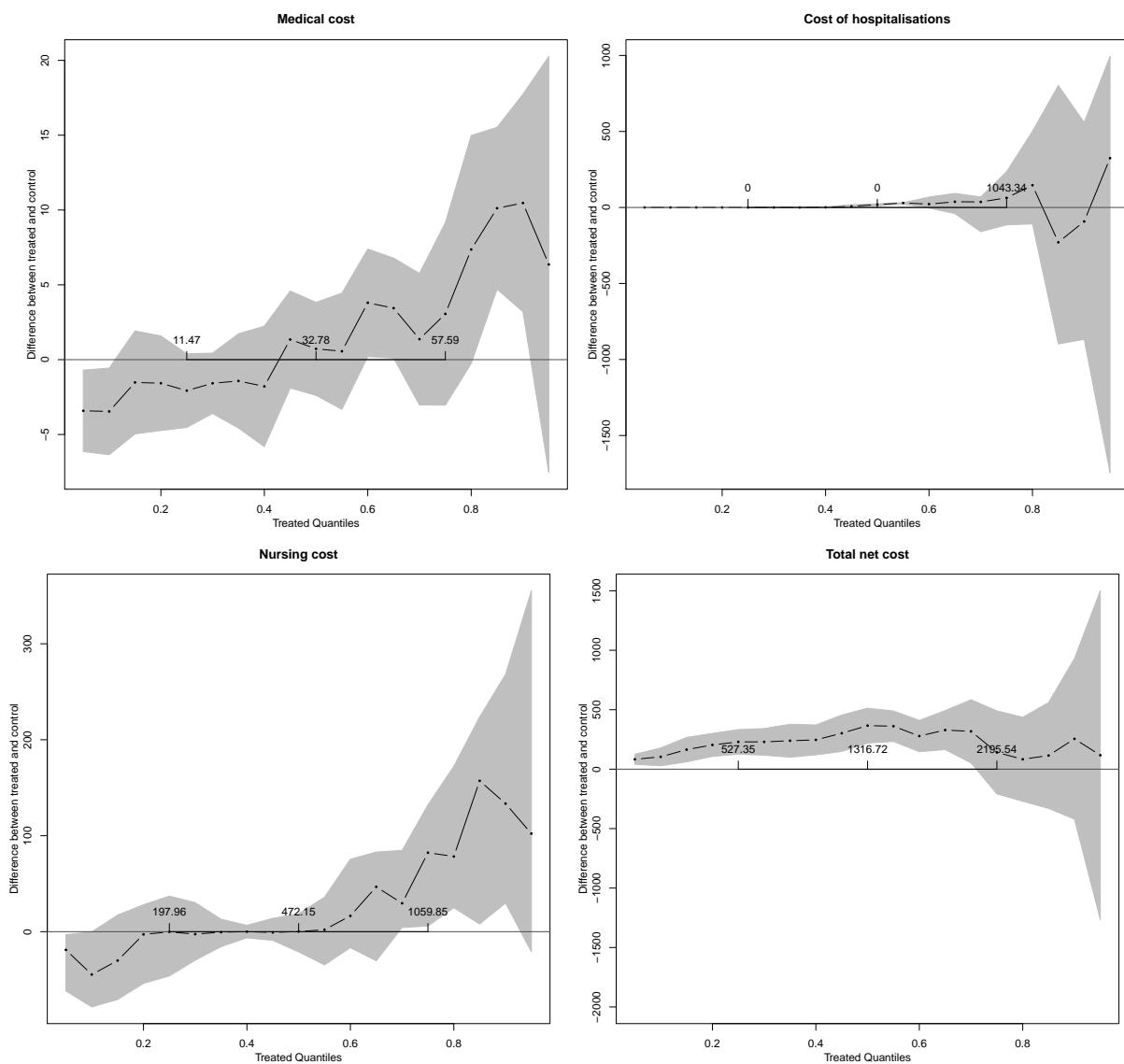


Figure 8.32: Graphs of the differences of costs between treated and control **for the NHDI, for the group of Nursing, for six months** adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

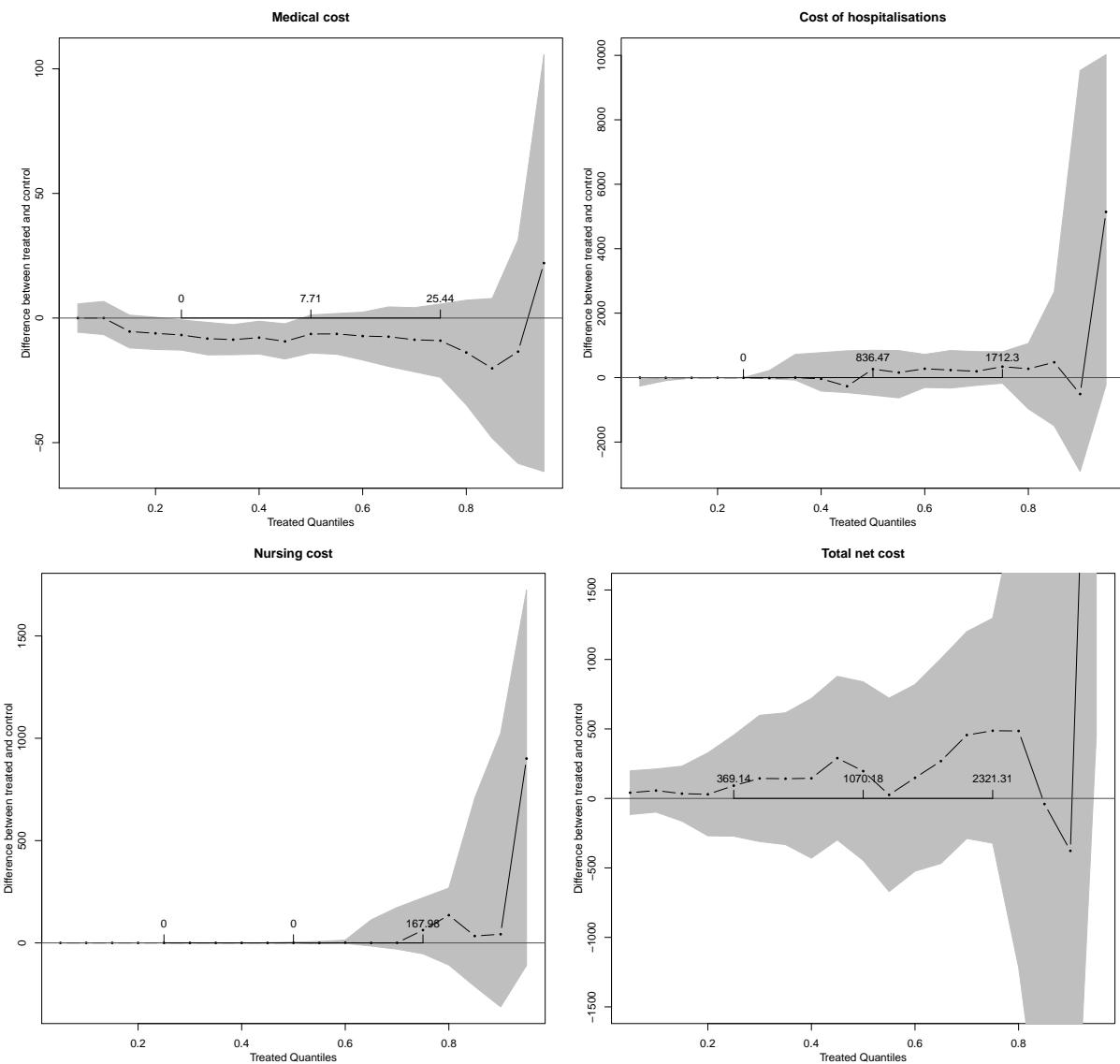


Figure 8.33: Graphs of the differences of costs between treated and control **for the NHDI, for the group of Hospitalisation, for six months**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

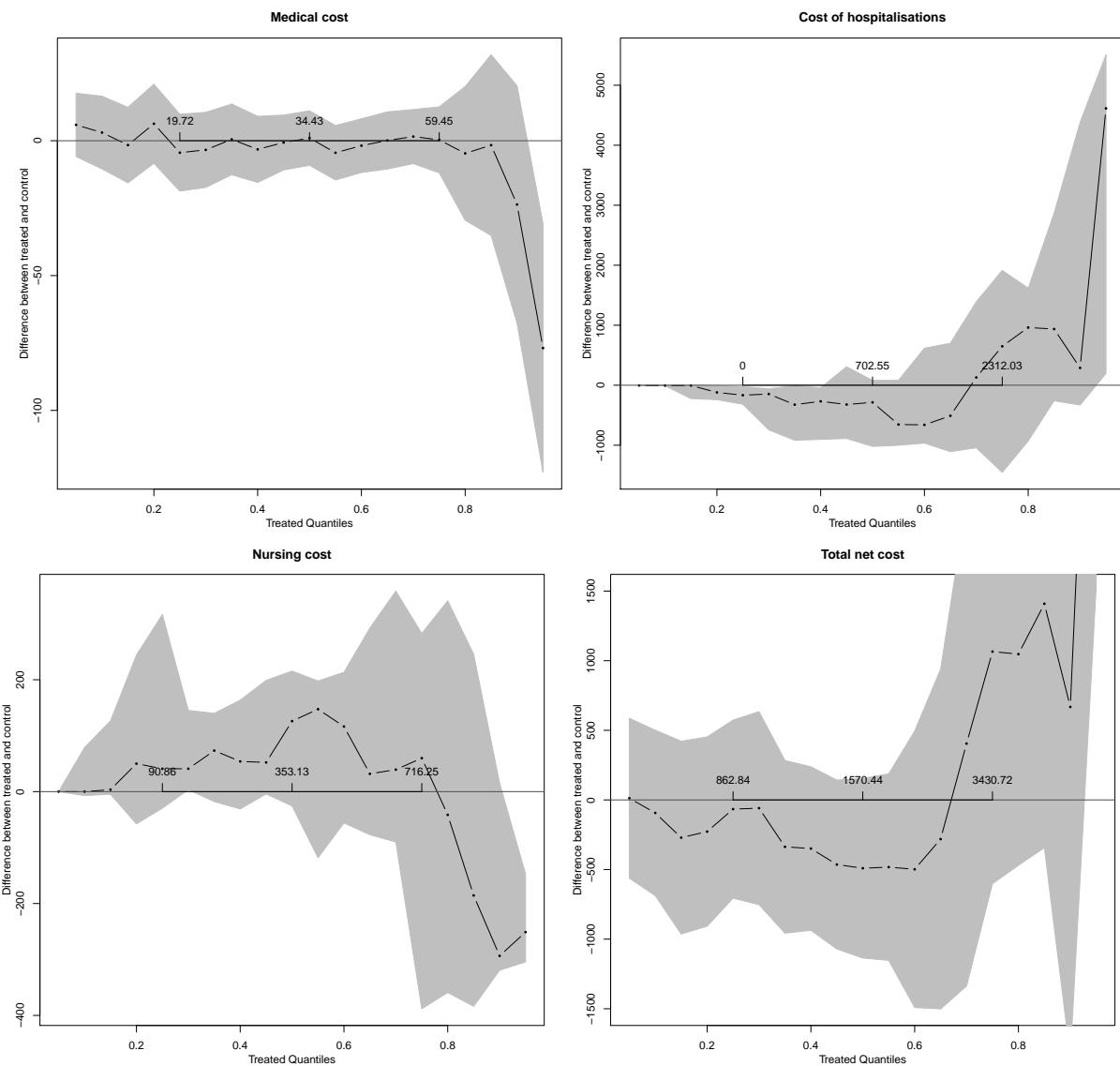


Figure 8.34: Graphs of the differences of costs between treated and control **for the NIHDI, for the group of Nursing, Hospitalisation, for six months**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

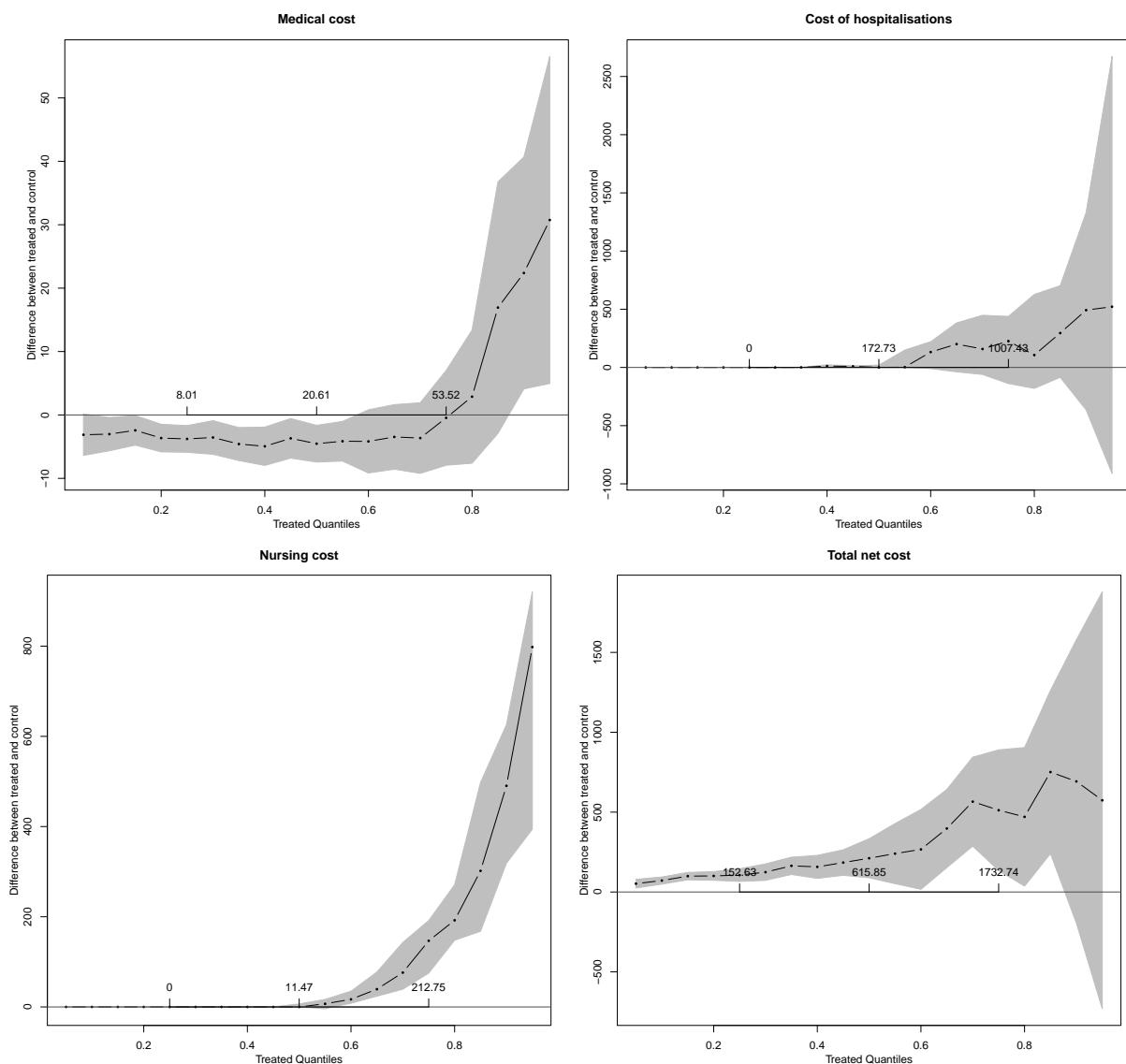


Figure 8.35: Graphs of the differences of costs between treated and control **for the NHDI, for the group of No Event, for twelve months**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

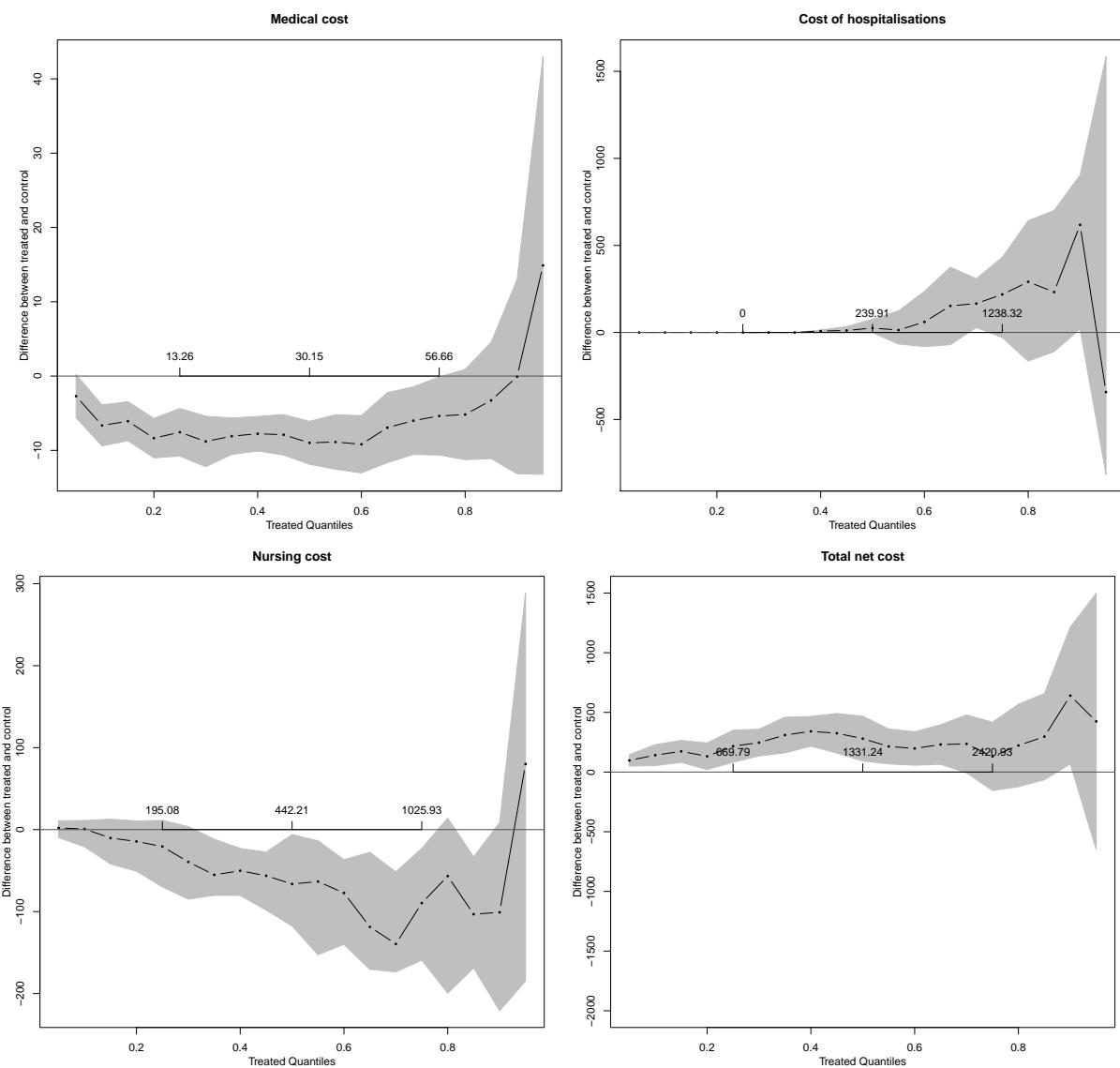


Figure 8.36: Graphs of the differences of costs between treated and control **for the NHDI, for the group of Nursing, for twelve months**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

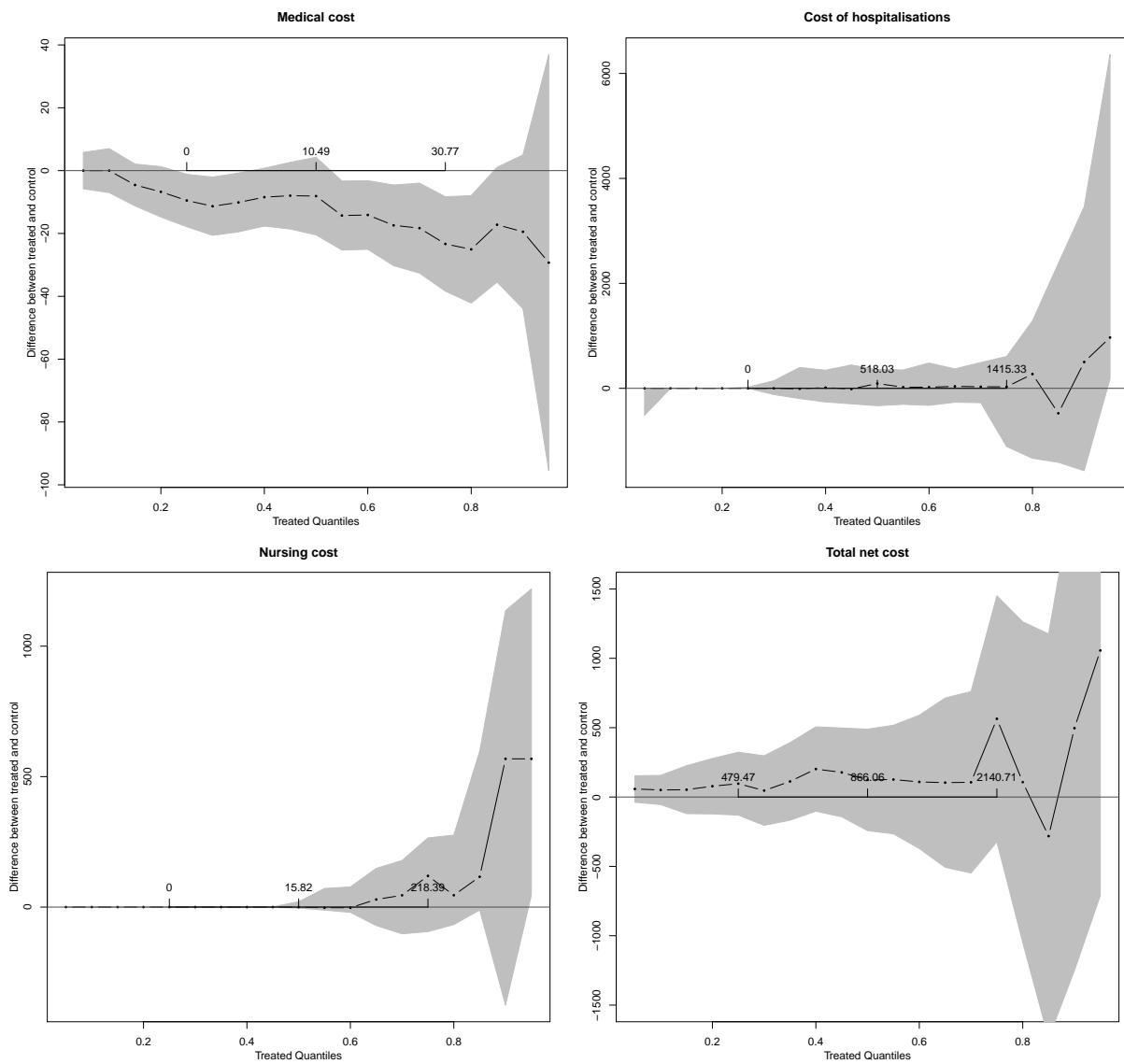


Figure 8.37: Graphs of the differences of costs between treated and control **for the NHDI, for the group of Hospitalisation, for twelve months**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

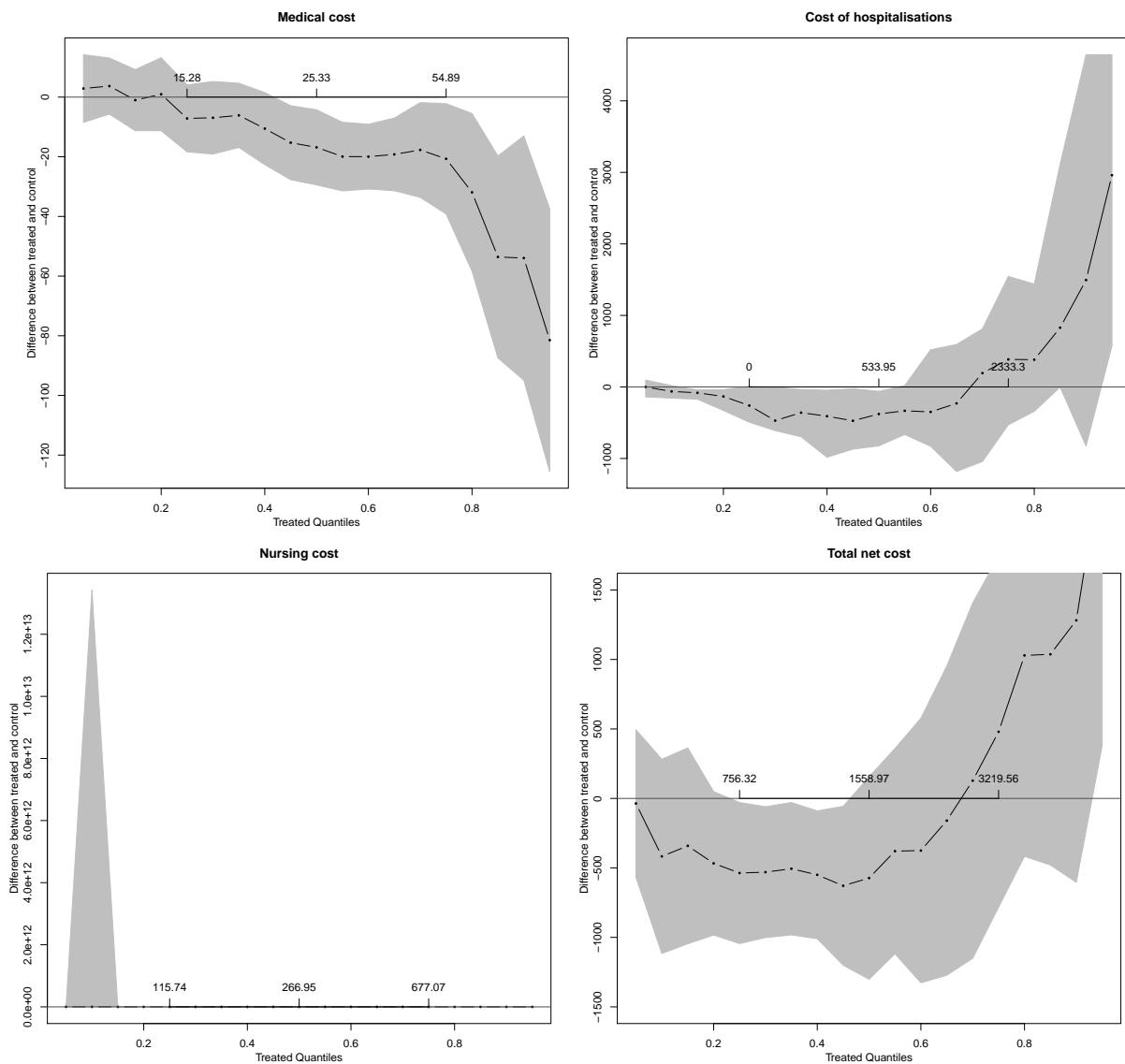


Figure 8.38: Graphs of the differences of costs between treated and control **for the NIHDI, for the group of Nursing, Hospitalisation, for twelve months**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

### 8.2.5 Health care costs linked to disability for the patients

Table 8.37: Average costs of health care services and technical equipment for six months (per month, per patient)

	Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>										
Mean T	0.1	8.8	7	14.5	0	0	0	0	4.5	0.9
Mean C	0.2	0.7	6.5	7.5	0	0	0	0	5.9	1.9
IC95	-0.3/0.2	3.3/13.2	-2.4/3.7	3.1/10.9	0/0	0/0	0/0	0/0	-10.2/7	-5.6/2
<b>Nursing</b>										
Mean T	15	18.4	18.1	19.6	0	0.1	0	0	4	0.3
Mean C	2.4	2.2	14.5	15	0	0	0	0.1	2.8	3.5
IC95	8.7/16.9	11.3/20.9	0.3/6.8	0.4/8.7	0/0	0/0.3	-0.1/0	-0.2/0	-3.3/6.2	-7.5/-0.2
<b>Hospi</b>										
Mean T	0.5	2.5	10.7	19.1	0	0	0	0	7	0
Mean C	0.1	2.5	4.2	6.2	0	0	0	0	0	0
IC95	-0.2/1.2	-6.1/5.7	1/12.8	2.8/24.6	0/0	0/0	0/0	0/0	0/21.1	0/0
<b>Nursing, hospi</b>										
Mean T	5.1	5.2	17	22.3	0	0	0	0	0	0.6
Mean C	1.6	0.2	13.1	20.8	0	0.2	0	0	0	8.4
IC95	-1.1/8.8	1.1/10.2	-3.7/11.1	-13.2/14.5	0/0	-0.7/0.1	0/0	0/0	0/0	-24.3/0.7

Table 8.38: Average costs of other health care services for six months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Aft		Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>												
Mean T	0	0	8.1	9	13.4		3.3	4.5	0.9	0.6	90.6	63.7
Mean C	0.4	0.3	0	7.2	35.2		4.2	4.6	1.4	1.4	51.5	35.6
IC95	-1.2/0	-1/0.1	1/16.6	-15.3/18.4	-54.8/7.6		-1.9/0.1	-1.3/1.1	-1.1/0.1	-1.6/0.1	7/73.6	-0.1/56.6
<b>Nursing</b>												
Mean T	1.5	1.8	13.9	18.2	42.4		4.6	5	0.4	0.4	81.4	46.6
Mean C	4.8	7.2	0.3	22.3	63.4		7.1	6.4	0.8	0.6	74.9	36.5
IC95	-6.2/-0.8	-9.4/-1.6	4/27.3	-20.2/12.2	-58.4/15.7		-3.6/-1.5	-2.8/-0.2	-0.6/-0.1	-0.4/0.1	-23/39.1	-4.9/25.5
<b>Hospi</b>												
Mean T	1.3	0.9	0	14.8	52.1		3.8	3.1	0.3	0.6	178.9	143.3
Mean C	0	0	0	2.7	237.2		4.5	4.9	0.4	0.3	195.2	82.8
IC95	0/3.9	0/2.8	0/0	0/36.5	-364.4/-15.1		-3.7/2.5	-4.8/1.2	-1/0.4	-0.4/1.1	-221.4/134.1	-54.8/184.7
<b>Nursing, Hospi</b>												
Mean T	0	0	2.1	15.8	7.1		6.8	6.2	0.4	0.3	97.7	96.4
Mean C	0	0	0	52	104.5		7.3	5.4	0.1	0	131.3	84.4
IC95	0/0	0/0	0/6.2	-94.9/13.9	-173.3/-31.6		-4/3	-2.5/4	-0.3/1.1	-0.1/0.7	-82.7/10.4	-49.1/76.1

Table 8.39: Average costs of health care services and technical equipment for twelve months (per month, per patient)

	Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>No event</b>										
Mean T	0.4	9.5	6.1	16.1	0.2	0.6	0	0	2.4	1.2
Mean C	0.1	1	3.9	7.6	0	0	0	0	2.9	1.4
IC95	0/0.7	3.9/14.5	0.1/4.5	4.7/12.5	0/0.6	0/1.9	0/0	0/0	-4.8/3.3	-2.9/2.4
<b>Nursing</b>										
Mean T	14	17.1	16.9	19.1	0.2	0.1	0	0	2.7	0.6
Mean C	1.5	2.1	9.2	14.3	0	0	0	0.1	2.4	2.8
IC95	9/16.5	10.7/19.9	5.4/10.3	1.2/8.4	0/0.6	0/0.1	-0.1/0	-0.2/0	-2.8/3.3	-4.8/-0.1
<b>Hosp</b>										
Mean T	0.2	2.2	8.1	17.7	0	0	0	0	3.5	0
Mean C	0.1	1.8	2.3	5.5	0	0	0	0	0	0
IC95	-0.1/0.6	-4.5/5.3	1.4/11.6	1.9/23.9	0/0	0/0	0/0	0/0	0/14	0/0
<b>Nursing, hosp</b>										
Mean T	6.1	5.7	14.6	18.2	0	0	0	0	0.2	0.4
Mean C	0.8	0.2	8.2	18.2	0	0.1	0	0	0	7.5
IC95	0.7/10.6	1.5/10.9	0.7/12.7	-8.9/8.9	0/0	-0.3/0.1	0/0	0/0	0/0.5	-18.5/0.4

Table 8.40: Average costs of other health care services for twelve months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Bef	Aft	Bef	Aft	
<b>No event</b>												
Mean T	0	1.2	4.1	14.5	32.6	3.5	5.1	0.8	0.6	51.9	60.9	
Mean C	0.8	0.8	0	6.7	50.5	2.9	4.6	1	1.3	57	36	
IC95	-1.8/0	-1.5/2.5	0.8/8.7	-6.6/24.4	-56.2/18.4	-0.1/1.4	-0.9/1.7	-0.7/0.5	-1.7/0.2	-27.5/17.2	4/48	
<b>Nursing</b>												
Mean T	2.5	4.4	8.3	19	89.9	4.8	4.5	0.4	0.3	71.3	46.2	
Mean C	5.3	11	0.1	23.3	93.5	4.8	6.1	0.5	0.5	75.8	37.3	
IC95	-6.2/0.8	-12.6/-0.4	2.7/14.7	-16.8/7.8	-47.9/43.7	-0.8/0.8	-2.9/-0.3	-0.3/0.1	-0.4/0	-24.3/16.9	-2.9/20.2	
<b>Hospi</b>												
Mean T	2.2	1.7	0	23	91.4	3.5	3.3	0.3	0.5	93.6	126	
Mean C	0	0.3	0	8.1	270.8	2.7	4.8	0.2	0.5	107.8	64.4	
IC95	0/6.7	-0.5/4.3	0/0	-10.8/45.2	-379.9/-2.5	-1.4/3.6	-4.3/1	-0.4/0.4	-0.8/1.1	-121.6/67.4	-33.5/171.1	
<b>Nursing, hospi</b>												
Mean T	0	0	1	12.4	107	6.5	5.2	0.3	0.2	61.1	74.6	
Mean C	0	0.4	0	53.1	179	5.2	5.3	0.1	0.1	74.2	76.7	
IC95	0/0	-1.3/0	0/3.1	-87.9/-0.3	-210.6/73.6	-1.5/4.2	-3.2/3	-0.3/0.7	-0.3/0.3	-44.5/21.9	-46.8/46.4	

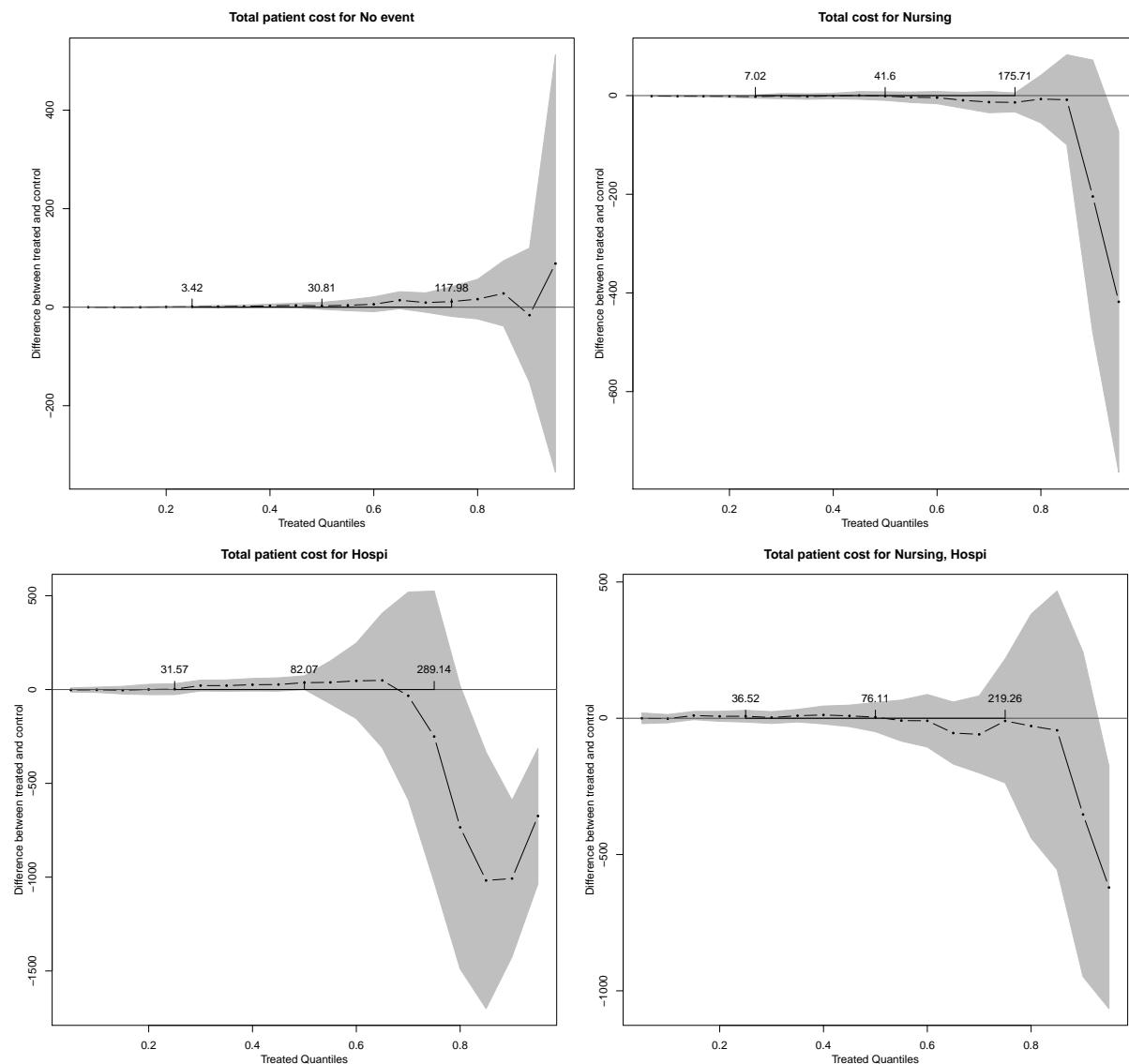


Figure 8.39: Graphs of the differences of the total cost (between treated and control) for the patients (per month, per patient) for six months, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive

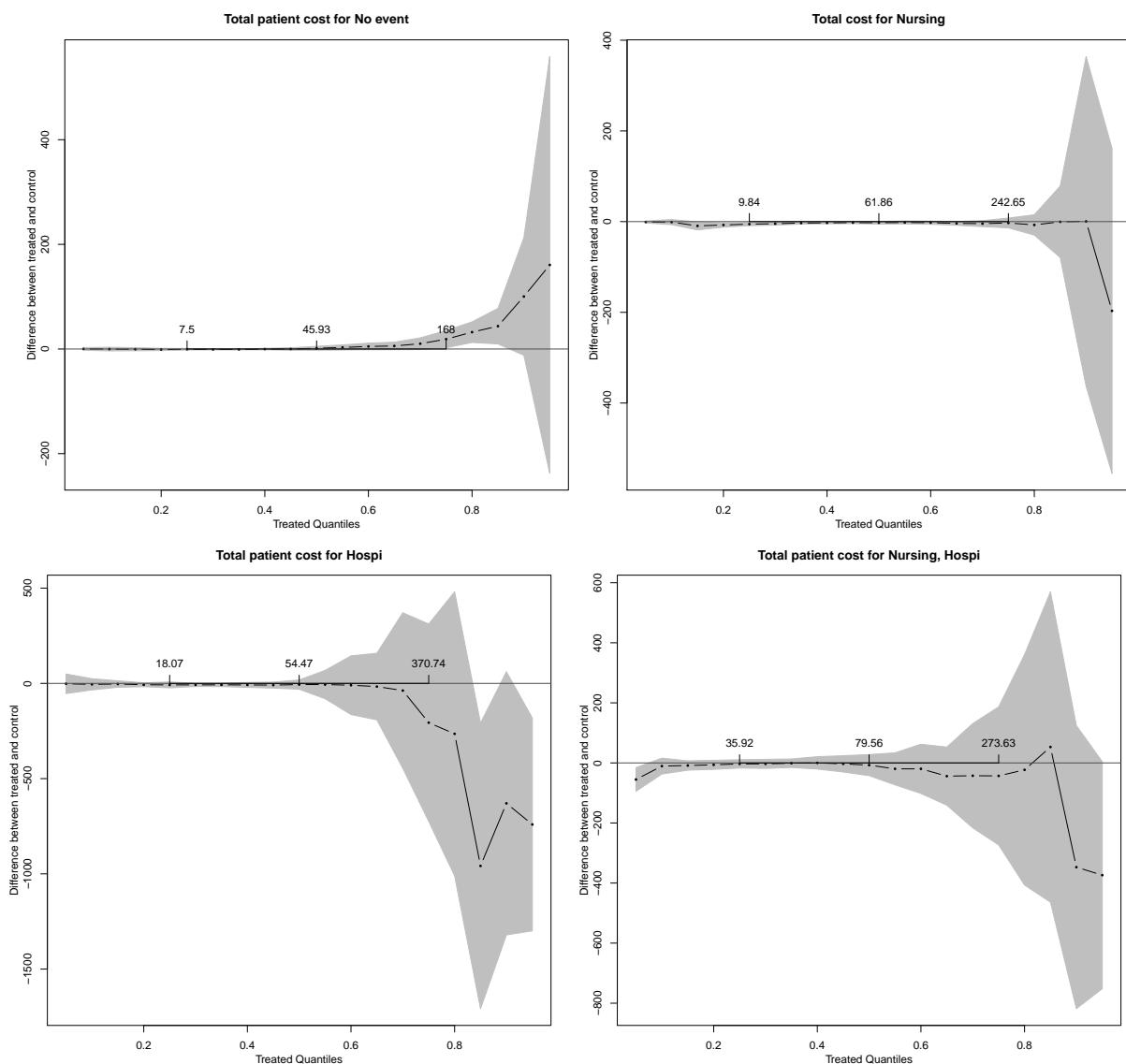


Figure 8.40: Graphs of the differences of the total cost (between treated and control) for the patients (per month, per patient) for twelve months, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive

### 8.2.6 Cost differences for the stakeholders between treated and control

No possible calculation for six months

Table 8.41: Average cost differences between treated and control group per month (adjusted according to the level of cost before intervention, socio economic proxy and deaths)

	NIHDI Home		NIHDI Home + hosp. + inter		All NIHDI + patients + regions	
	Diff mean adj.	IC95	Diff mean adj.	IC95	Diff mean adj.	IC95
Nursing	18	-63.2/102.1	326	74.5/603.7	350	66.5/676.9

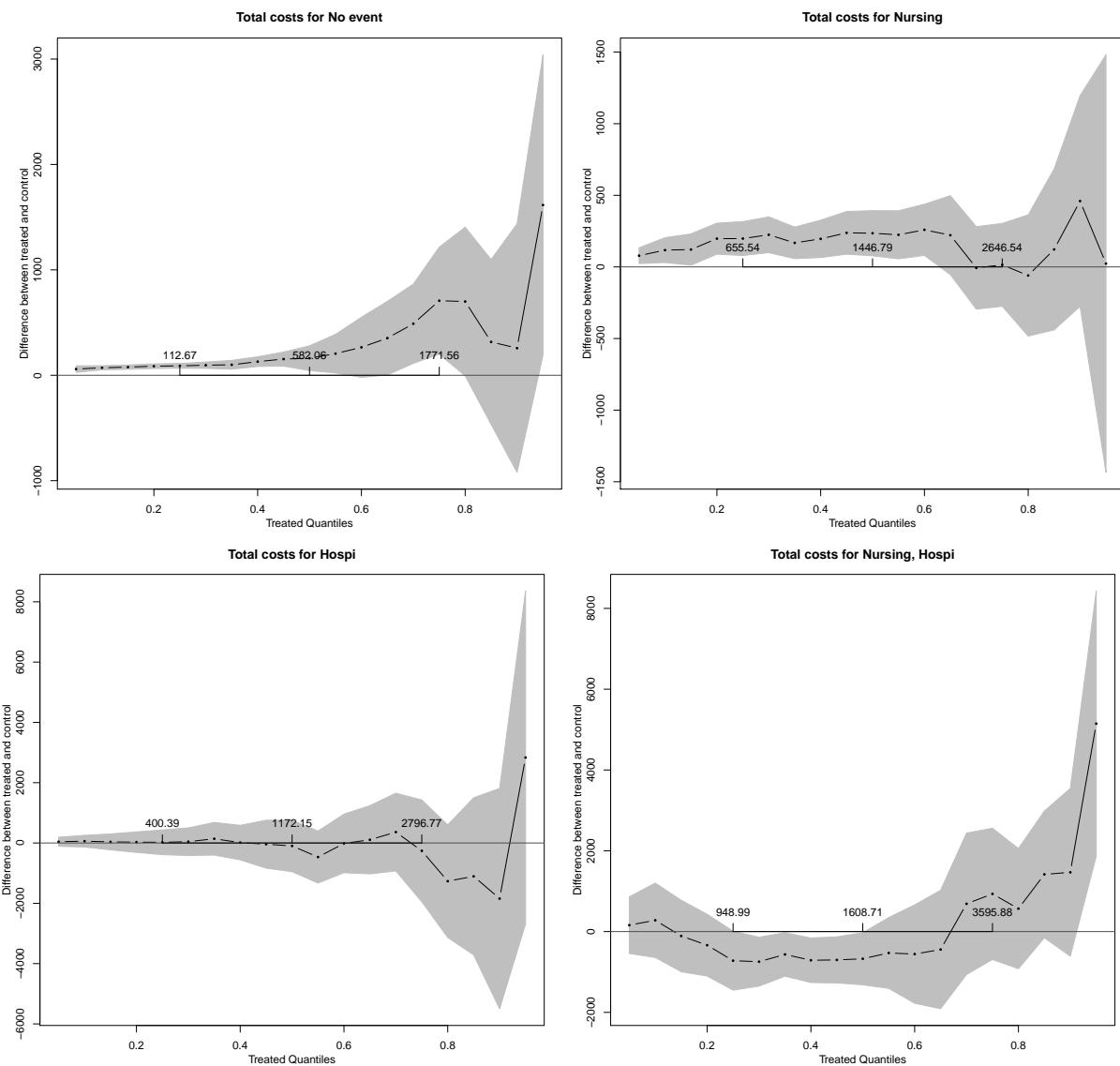


Figure 8.41: Graphs of the differences of the total cost (between treated and control) for all stakeholders (per month, per patient) for six months, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive

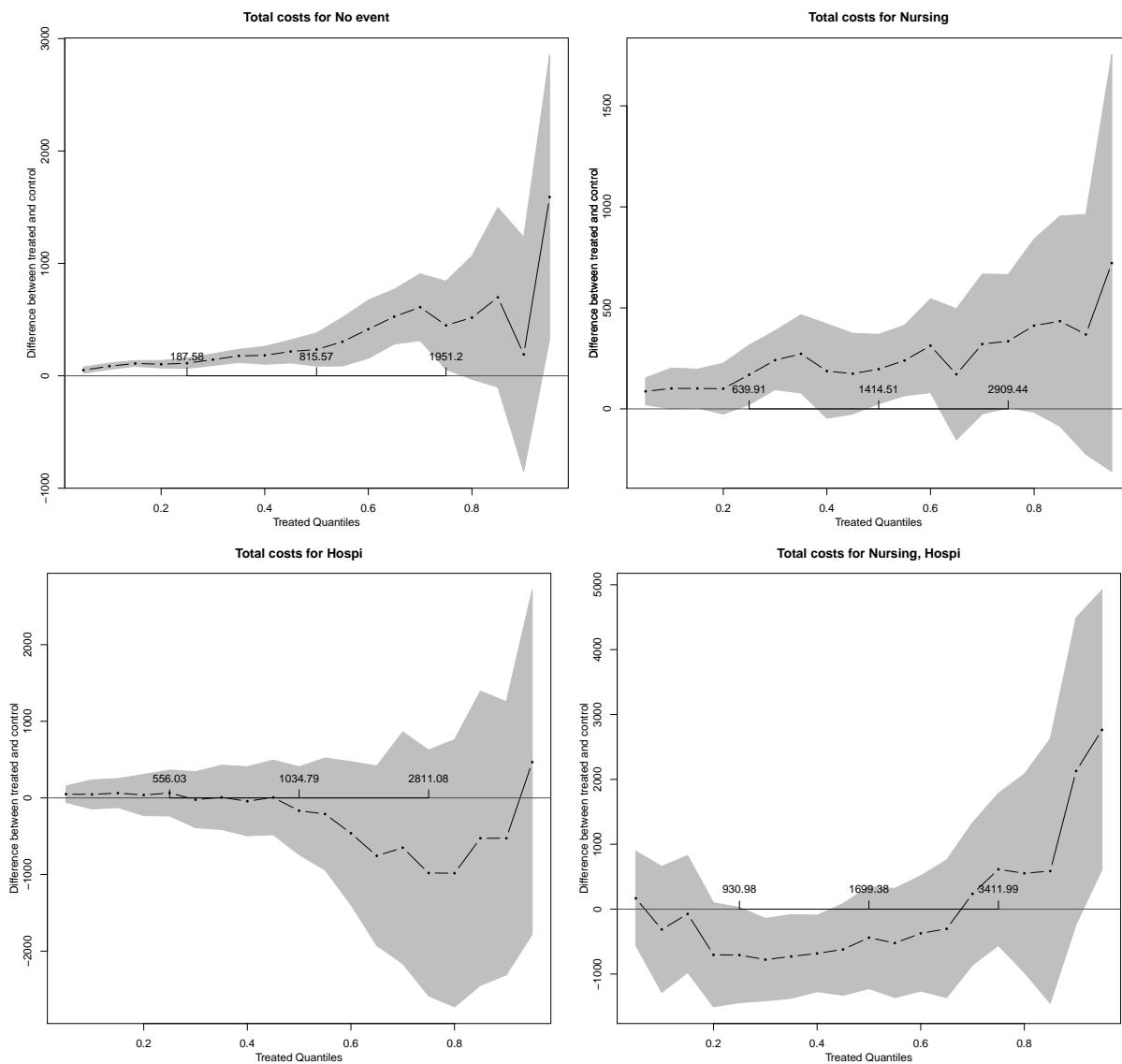


Figure 8.42: Graphs of the differences of the total cost (between treated and control) for all stakeholders (per month, per patient) for twelve months, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive

### 8.2.7 Number of days at home and in residential care facilities

Table 8.42: Average number of days for 6 months

	Temp. NH		Hosp.		Def. NH		Days home		Days alive
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Aft	Aft
<b>No Event</b>									
Mean T	1	0.6	18.6	8.9	1.5	147.6	148.1	173.5	
Mean C	0	0.9	6.6	4.8	4.5	171.3	171.1	181.1	
Diff. TC. IC95	0.2/2.2	-2/1	7/17.5	1.2/7	-7.7/0.9	-32.5/-15.2	-32.4/-12.7	-12.9/-3.4	
<b>Nursing</b>									
Mean T	1.4	1.8	14.7	9	4.5	156.4	152.5	174.2	
Mean C	0	2.7	16.1	11.6	8.1	163	159.7	181.2	
Diff. TC. IC95	0.4/2.5	-2.8/0.8	-5.5/2.7	-6.2/0.8	-7.9/0.6	-13.3/-0.6	-14.3/-0.5	-10.2/-4.3	
<b>Hospi</b>									
Mean T	0	0.6	36.7	18	6.2	145.1	138.4	162.4	
Mean C	0	0.3	17.4	16.6	28.8	153.3	137.9	181.9	
Diff. TC. IC95	0/0	0/0.9	4.8/35.5	-13.2/16	-43.9/-2	-25.2/8.4	-27.4/29.5	-35.6/-6.1	
<b>Nursing, Hospi</b>									
Mean T	0.2	2	21.4	22.4	0.8	159.7	150.9	175.3	
Mean C	0	6.7	29.8	28	13.4	152.1	135.8	181.8	
Diff. TC. IC95	0/0.8	-11.6/1.6	-16.8/-0.3	-23.2/10.8	-22.6/-4	-0.3/15.8	-9.7/43.4	-15/0.1	

Table 8.43: Average number of days for 12 months

	Temp. NH		Hosp.		Def. NH		Days home		Days alive
	Bef	Aft	Bef	Aft	Aft		Bef	Aft	Aft
<b>No Event</b>									
Mean T	1	2	22.9	17.7	7.1		311.2	282.2	337.5
Mean C	0	1.5	14.2	11.2	12.6		343.1	332.9	358.8
Diff. TC. IC95	0.2/2.1	-2.2/2.3	2/15.7	0.5/12.4	-15.4/3.8		-49/-16.2	-72.3/-28.9	-33.6/-9.8
<b>Nursing</b>									
Mean T	1.6	3.8	26.3	17.8	19.4		317.6	282	335.8
Mean C	0	5.5	31.4	20.1	23.1		329.8	303.7	352.3
Diff. TC. IC95	0.6/2.8	-4.3/0.8	-11/0.6	-7.9/2.5	-13.6/7.2		-21.6/-2.2	-37.4/-6.3	-26.7/-7.1
<b>Hospi</b>									
Mean T	0	2.4	41	22.1	19.9		323.1	259	301.9
Mean C	0	2.1	19.5	22.5	64.6		323.2	269.9	360.1
Diff. TC. IC95	0/0	-4/4.7	3.1/46	-17.4/18	-87.5/-0.3		-27.4/30.5	-68.5/50.6	-95.7/-23.2
<b>Nursing, Hospi</b>									
Mean T	0.2	3.1	24.9	33.3	24.7		339	270.6	330.3
Mean C	0	12	34.5	45.4	45.9		329.5	245.9	348.2
Diff. TC. IC95	0/0.8	-21.2/0.5	-19.5/0.9	-34.5/9.4	-53.8/15.6		-0.3/18.7	-38.6/93.8	-45.5/7.9

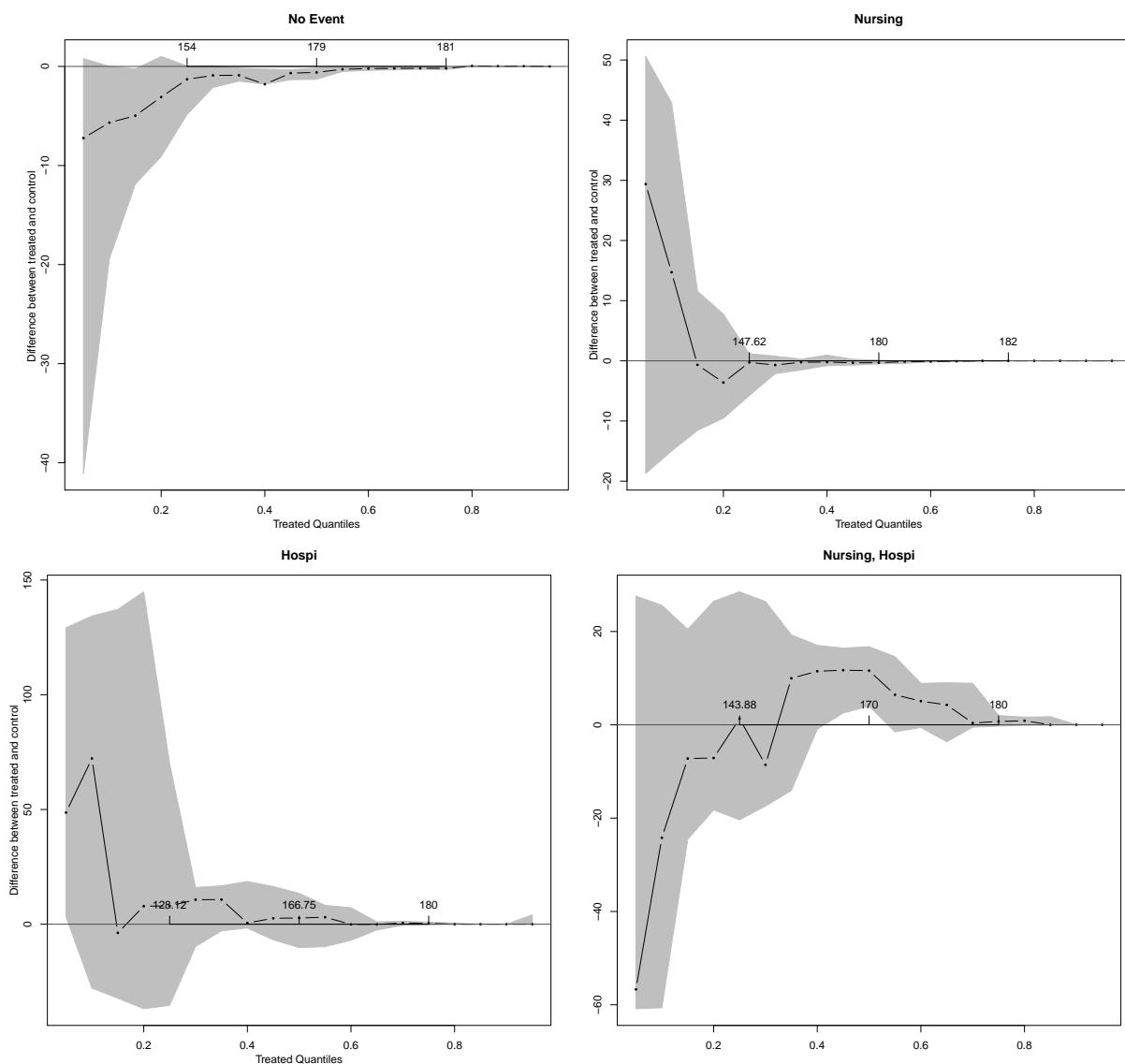


Figure 8.43: Graphs of the differences of days spent at home for six months and adjusted according to the proxy of the socio economic status and the number of days alive for six months

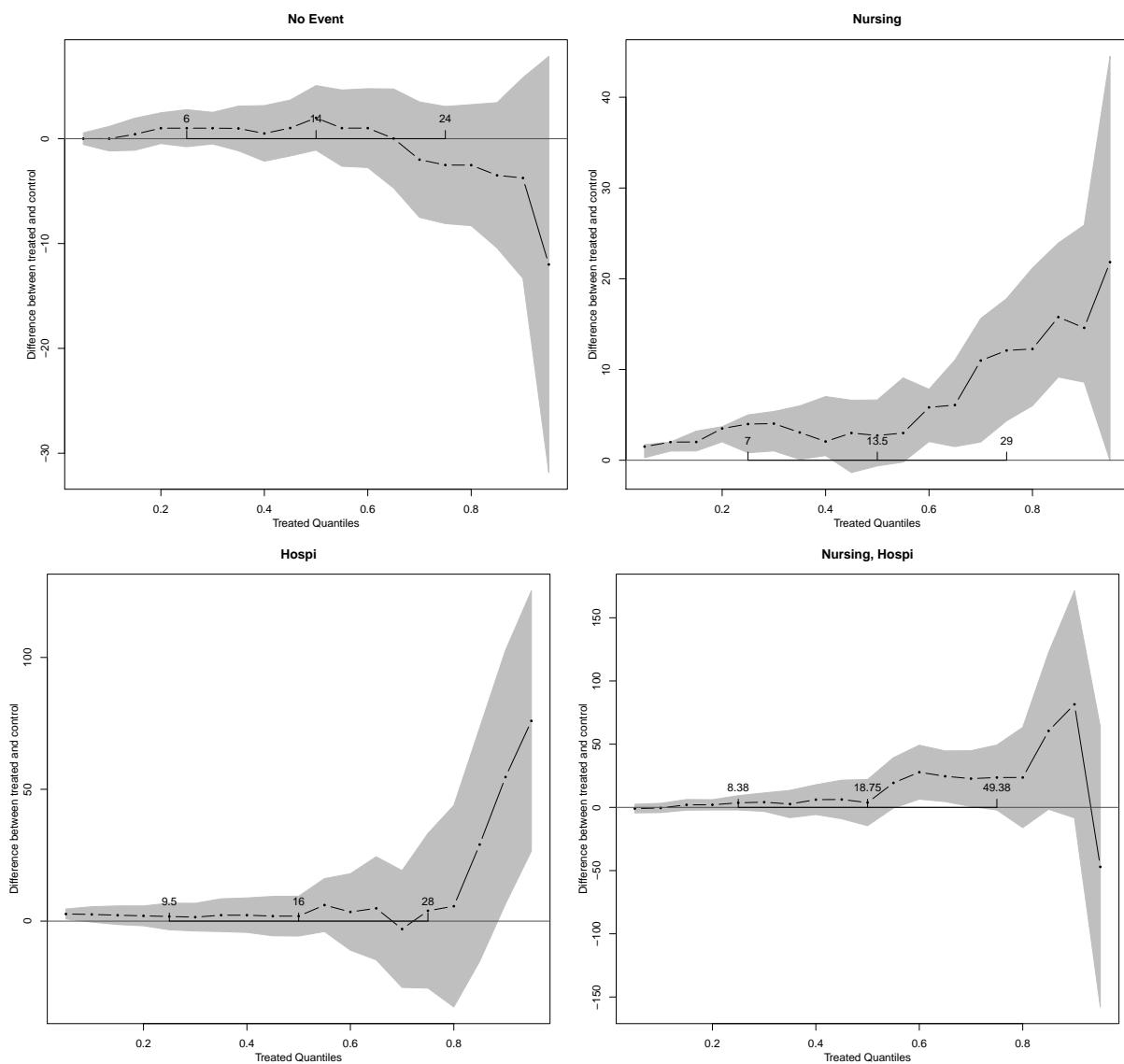


Figure 8.44: Graphs of the differences of days spent in hospital for six months and adjusted according to the proxy of the socio economic status and the number of days alive for six months (per patient)

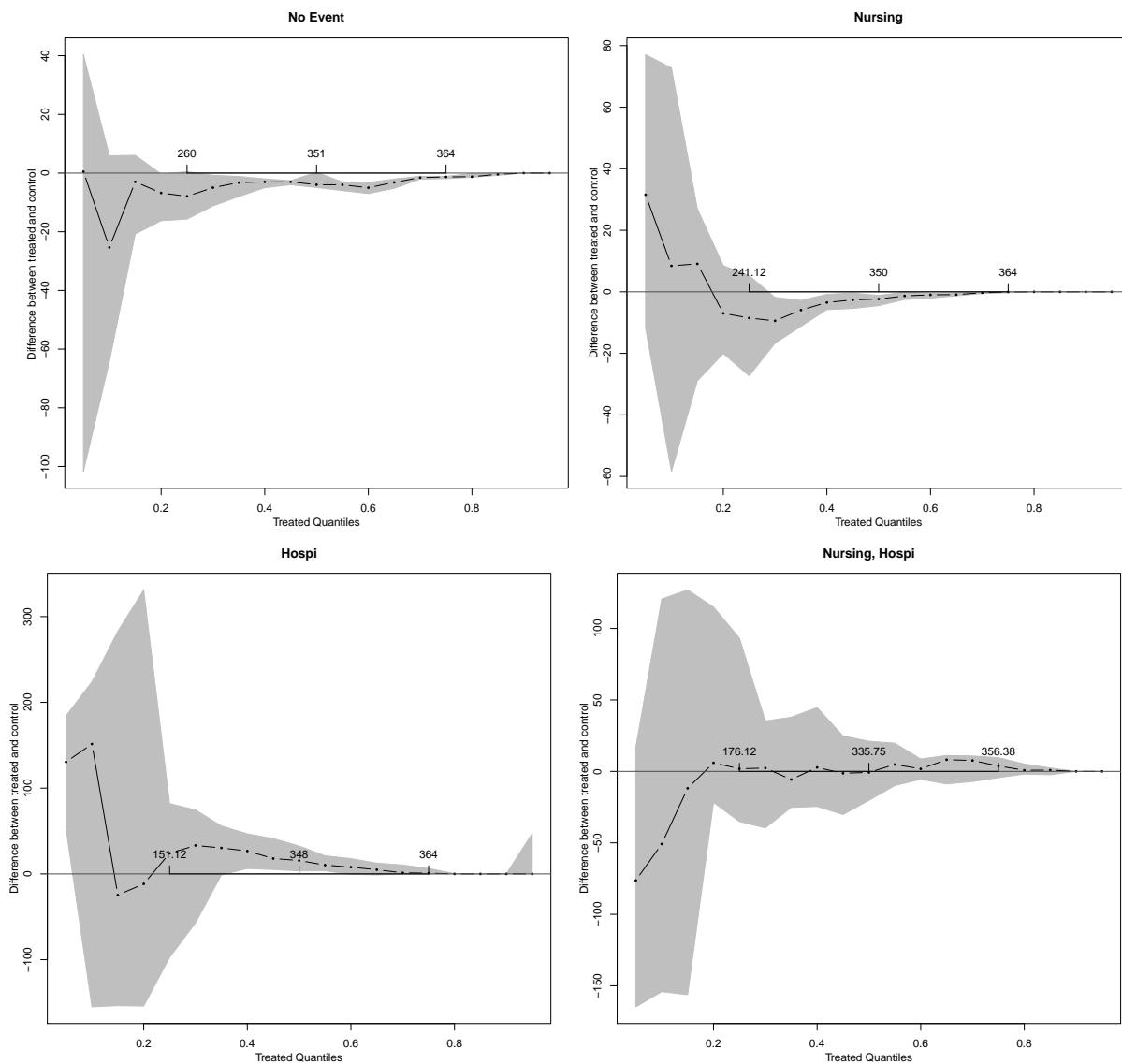


Figure 8.45: Graphs of the differences of days spent at home for twelve months and adjusted according to the proxy of the socio economic status and the number of days alive for twelve months (per patient)

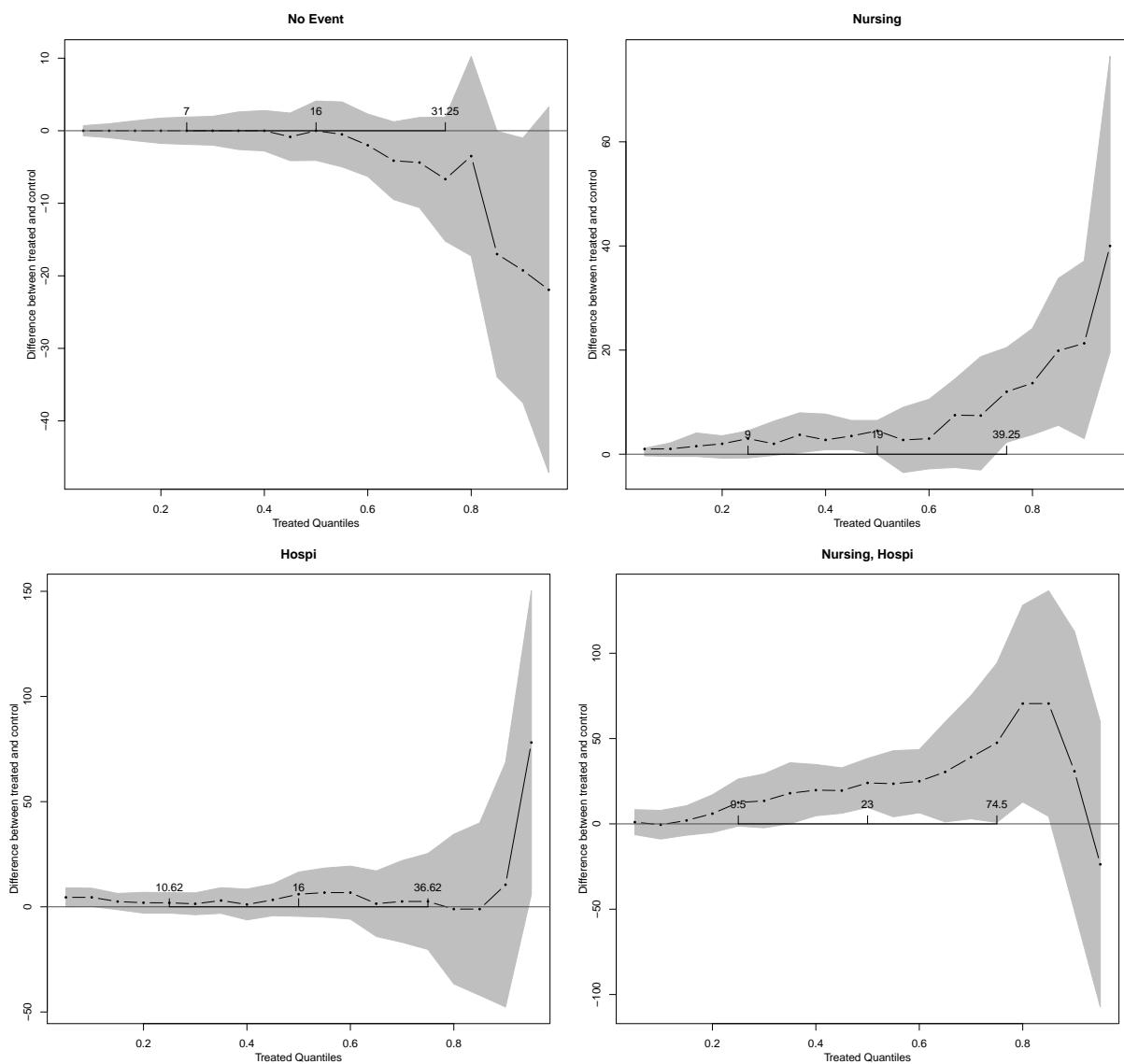


Figure 8.46: Graphs of the differences of days spent in hospital for twelve months and adjusted according to the proxy of the socio economic status and the number of days alive for the twelve months (per patient)

# Chapter 9

## Psychological support without CM

### 9.1 Comparison with the BelRAI control group

#### 9.1.1 Description of disability groups

Table 9.1: Proportion above the cut off of BelRAI scales depend on the subgroups of disability for the project PSY (without CM component)

	low limit.	func.	func., cogn.
IADL	0.99	97.24	98.78
ADL	0.99	26.21	68.29
CPS	10.40	15.86	93.90
Behav.	11.88	15.17	64.63
DRS	62.38	59.31	54.88
N	202.00	145.00	82.00

### 9.1.2 Description of socio-demographic variables

Table 9.2: Sociodemographic characteristics for the treated and the control group depend on the health profiles

	low limit.		func.		func., cogn.	
	T	C	T	C	T	C
<b>Age</b>						
Median[IQR]	76[68-83]	81[79-87]	77[70-84]	81[74-87]	81[73-85]	82[75-86]
<b>Gender</b>						
% Men	23.27	18.32	24.14	37.93	51.22	40.24
% Women	76.73	81.68	75.86	62.07	48.78	59.76
<b>ICG</b>						
% No ICG	44.55	46.53	28.28	28.97	0	0
% No cohabitant	37.13	35.15	39.31	38.62	24.39	24.39
% Cohabitant	18.32	18.32	32.41	32.41	75.61	75.61
<b>Region</b>						
Bruxelles	22.77	0	11.03	0	20.73	0
Flandre	38.61	33.17	53.79	44.83	62.2	64.63
Wallonie	38.61	66.83	35.17	55.17	17.07	35.37
<b>Median income</b>						
Low	41.09	21.78	35.17	38.62	25.61	20.73
Medium	43.07	48.02	44.14	40.69	63.41	45.12
High	15.84	30.2	20.69	20.69	10.98	34.15
<b>N</b>						
Unique value	202	48	145	93	82	45

### 9.1.3 Clinical outcome

Table 9.3: BelRai outcomes

	DRS		Loneliness	
	Bef	Aft	Bef	Aft
<b>low limit.</b>				
% cut off C	21.62	23.11	30.31	34.66
% cut off T	46.62	42.96	49.93	49.26
IC95	3.17[2.54/4.08]	0.77[0.54/1.07]	2.29[1.83/2.88]	0.88[0.6/1.29]
% NA	0	0.74	1.03	0.29
<b>func.</b>				
% cut off C	34.23	32.26	26.51	28.31
% cut off T	35.93	30.75	40.06	36.95
IC95	1.08[0.89/1.3]	0.46[0.34/0.61]	1.85[1.55/2.22]	0.81[0.61/1.08]
% NA	0	0.7	0.6	0.6
<b>func., cogn.</b>				
% cut off C	45.63	44.15	23.7	23.32
% cut off T	47.04	49.02	27.16	27.08
IC95	1.06[0.8/1.41]	1.01[0.62/1.66]	1.2[0.87/1.66]	1.21[0.74/1.97]
% NA	0	3.07	4.26	11.82

Table 9.4: Zarit outcome

	Non Cohab		Cohab	
	Bef	Aft	Bef	Aft
<b>low limit.</b>				
% cut off C	13.01	7.07	9.59	30.68
% cut off T	45.52	45.92	50.68	55.68
IC95	5.58[3.25/10.86]	2.45[0.91/10.01]	9.69[4.51/32.89]	5.39[1.47/37.07]
% NA	36.88	57.27	37.61	24.79
<b>func.</b>				
% cut off C	25.47	36.79	43.69	21.66
% cut off T	49.69	50.71	49.32	53.85
IC95	2.89[2.07/4.12]	0.61[0.31/1.15]	1.25[0.85/1.83]	5.08[2.81/11.87]
% NA	24.38	49.7	17.04	41.39
<b>func., cogn.</b>				
% cut off C	56.78	52.56	52.67	61.34
% cut off T	57.63	44.87	74.49	74.74
IC95	1.04[0.62/1.75]	0.91[0.31/2.68]	2.62[1.79/4.01]	1.37[0.66/2.76]
% NA	23.38	49.35	9.67	27.88

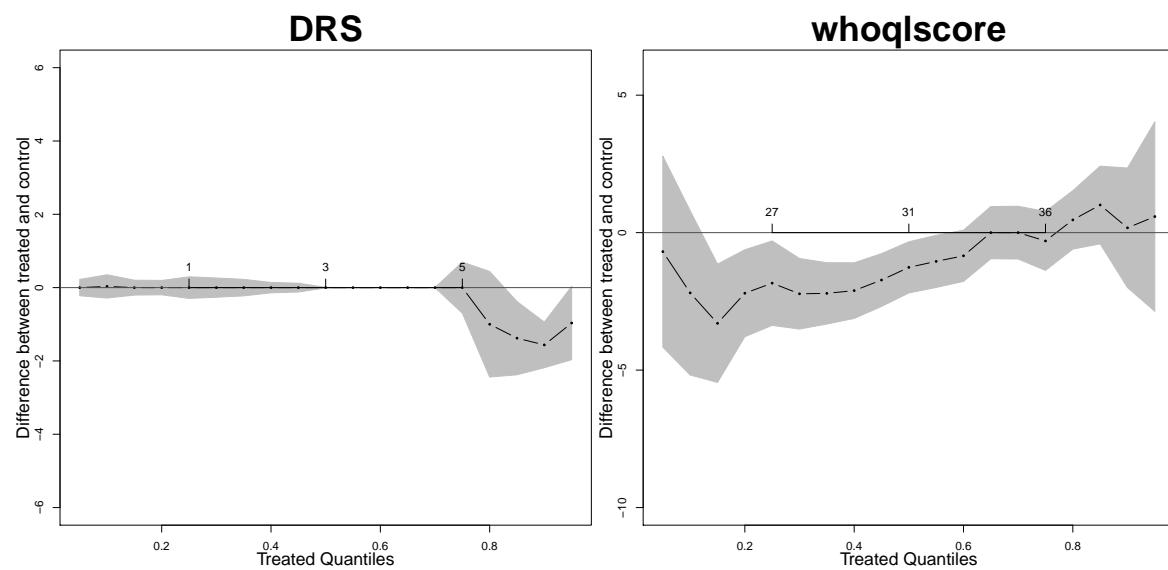


Figure 9.1: Regression quantile of depressive troubles and quality of life (Low limitation)

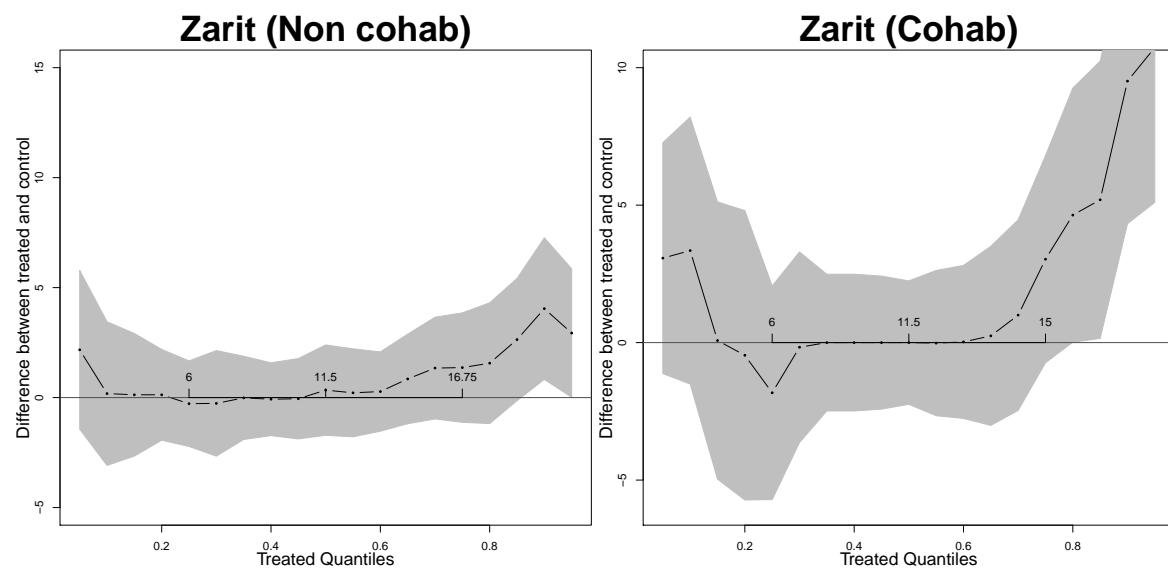


Figure 9.2: Regression quantile of burden clinical outcome (Low limitation)

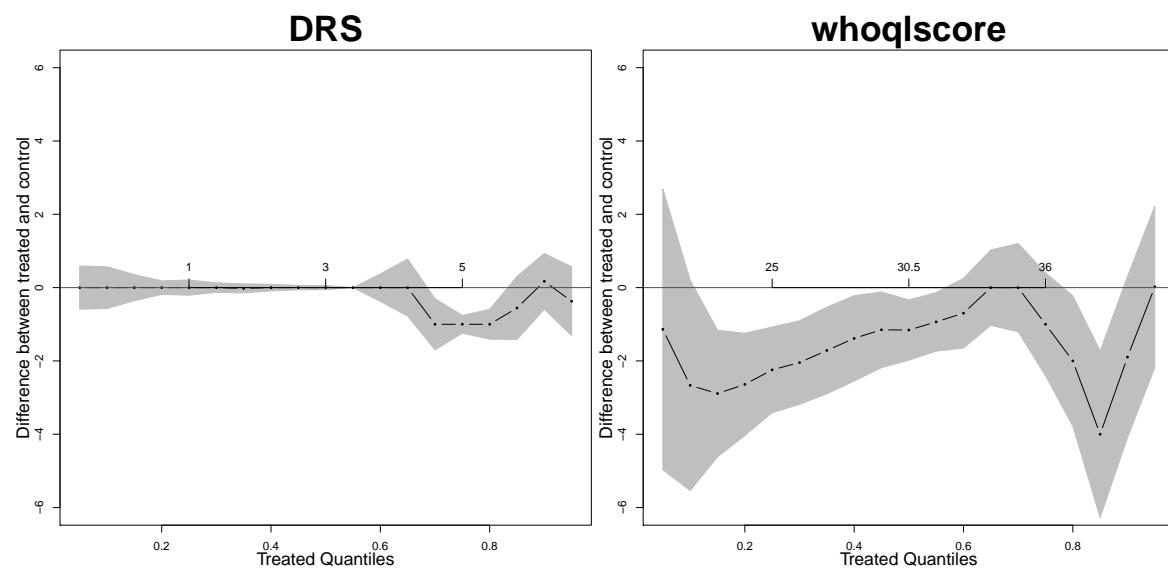


Figure 9.3: Regression quantile of depressive troubles and quality of life(Func.

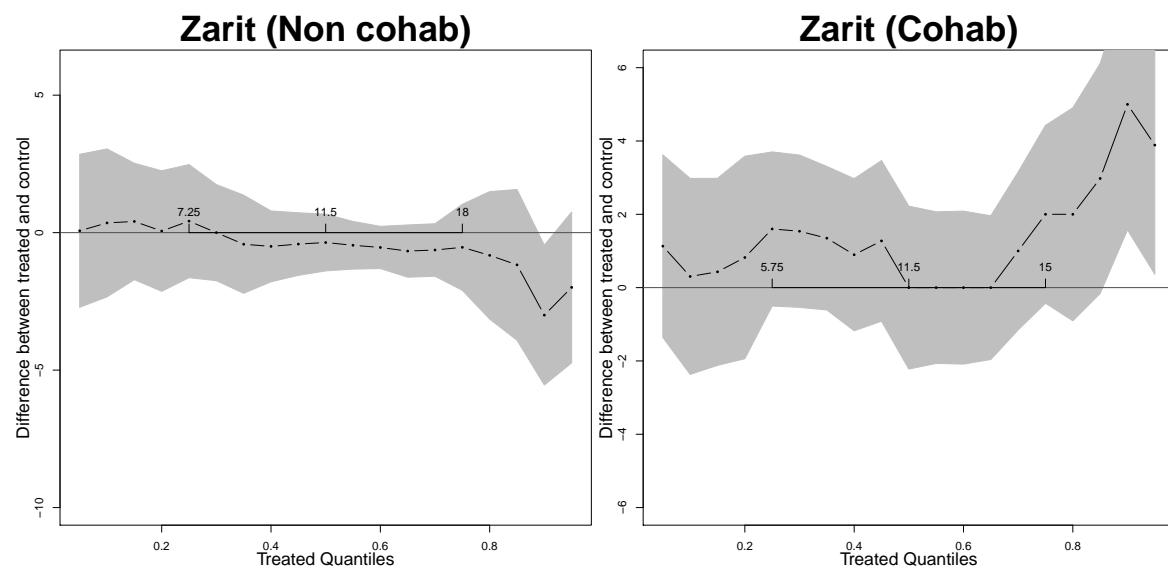


Figure 9.4: Regression quantile of burden clinical outcome (Func.).

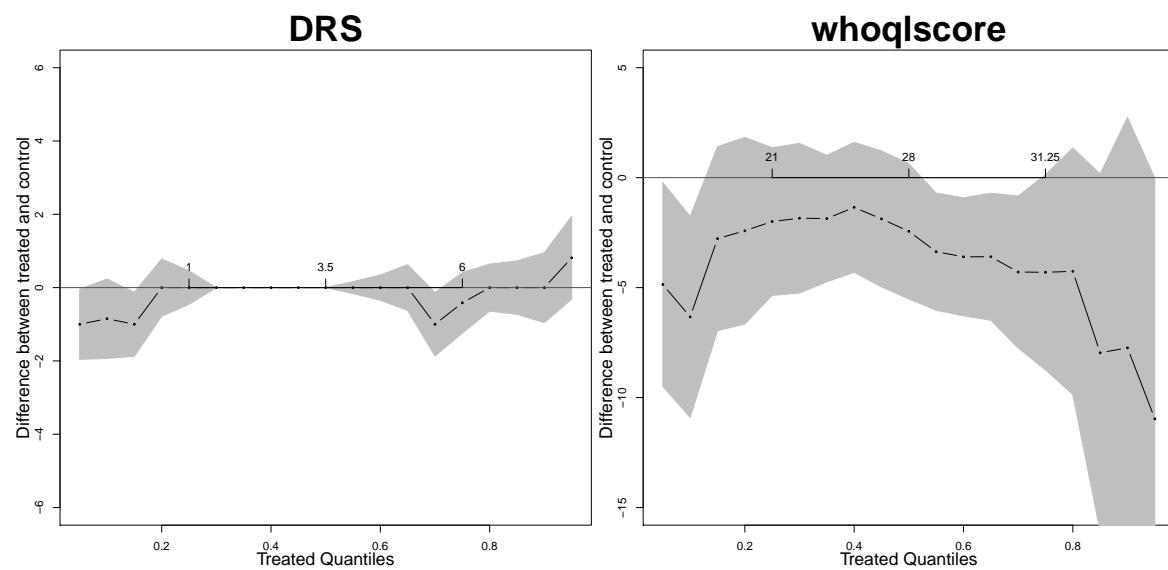


Figure 9.5: Regression quantile of depressive troubles and quality of life (Func., cogn.)

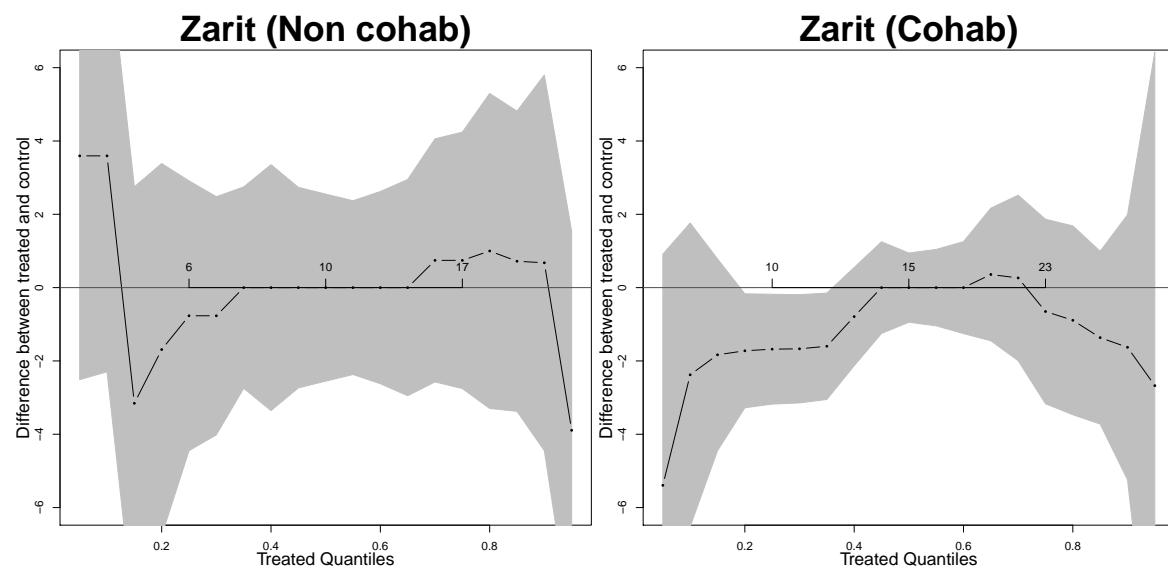


Figure 9.6: Regression quantile of burden clinical outcome (Func., cogn.)

## 9.1.4 Utilisation of services

### Appropriate use of services

Table 9.5: IC differnce of mean between treated and control for the dependency IMA outcomes

	Nursing Care		Short term institu.		Day care center	
	N months		N stays		N days	
	Use	Users	Use	Users	Use	Users
<b>low limit.</b>						
% / Med[IQR] C	100	11[11-11]	0	-	0	-
% / Med[IQR] T	33.96	7[2-12]	0	-	0	-
OR [IC95]	-[-/-]		-[-/-]		-[-/-]	
<b>func.</b>						
% / Med[IQR] C	100	11[11-11]	0	-	0	-
% / Med[IQR] T	49.09	7[4-12]	0.91	2[1-2]	6.36	31[25-58]
OR [IC95]	-[-/-]		-[-/-]		-[-/-]	
<b>func., cogn.</b>						
% / Med[IQR] C	100	11[11-11]	0	-	0	-
% / Med[IQR] T	76.7	12[5-12]	1.94	1[1-1]	19.42	59[45-71]
OR [IC95]	-[-/-]		-[-/-]		-[-/-]	

Table 9.6: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated at inclusion)

	low limit.		func.		func., cogn.	
	N.	W. N.	N.	W. N.	N.	W. N.
No lim						
ADL or	13.6(9.1)	86.4(57.9)	13.3(2.8)	86.7(18.4)	22.2(2.5)	77.8(8.8)
Incont						
Low lim,						
ADL &	0(0)	100(0.5)	40(1.4)	60(2.1)	0(0)	100(1.2)
Incont						
ADL lim	44.8(6.6)	55.2(8.1)	70.2(23.4)	29.8(9.9)	44.4(20)	55.6(25)
Incont	9.5(1)	90.5(9.6)	25(1.4)	75(4.3)	50(1.2)	50(1.2)
ADL &						
Incont	77.8(3.6)	22.2(1)	59.5(17.7)	40.5(12.1)	59.3(20)	40.7(13.8)
lim						
ADL ?						
No Incont	40(1)	60(1.5)	44.4(2.8)	55.6(3.5)	80(5)	20(1.2)
tot	21.3(21.3)	78.7(78.7)	49.6(49.6)	50.4(50.4)	48.8(48.8)	51.2(51.2)

Table 9.7: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Control at inclusion)

	low limit.		func.		func., cogn.	
	N.	W. N.	N.	W. N.	N.	W. N.
No lim						
ADL or	18.4(9.1)	81.6(40.6)	30(4.3)	70(9.9)	50(2.5)	50(2.5)
Incont						
Low lim,						
ADL &	100(2)	0(0)	75(4.3)	25(1.4)	100(1.2)	0(0)
Incont						
ADL lim	38.9(10.7)	61.1(16.8)	71.2(29.8)	28.8(12.1)	90.5(23.8)	9.5(2.5)
Incont	55.6(2.5)	44.4(2)	20(0.7)	80(2.8)	-(0)	-(0)
ADL &						
Incont	100(12.7)	0(0)	85.7(21.3)	14.3(3.5)	80(50)	20(12.5)
lim						
ADL ?						
No Incont	28.6(1)	71.4(2.5)	78.6(7.8)	21.4(2.1)	75(3.8)	25(1.2)
tot	38.1(38.1)	61.9(61.9)	68.1(68.1)	31.9(31.9)	81.2(81.2)	18.8(18.8)

Table 9.8: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated second eval)

	low limit.		func.		func., cogn.	
	N.	W. N.	N.	W. N.	N.	W. N.
No lim						
ADL or	18.9(12.7)	81.1(54.3)	36.7(7.8)	63.3(13.5)	22.2(2.5)	77.8(8.8)
Incont						
Low lim,						
ADL &	100(0.5)	0(0)	80(2.8)	20(0.7)	0(0)	100(1.2)
Incont						
ADL lim	58.6(8.6)	41.4(6.1)	80.9(27)	19.1(6.4)	66.7(30)	33.3(15)
Incont	14.3(1.5)	85.7(9.1)	62.5(3.5)	37.5(2.1)	50(1.2)	50(1.2)
ADL &						
Incont	55.6(2.5)	44.4(2)	73.8(22)	26.2(7.8)	77.8(26.2)	22.2(7.5)
lim						
ADL ?						
No Incont	40(1)	60(1.5)	77.8(5)	22.2(1.4)	80(5)	20(1.2)
tot	26.9(26.9)	73.1(73.1)	68.1(68.1)	31.9(31.9)	65(65)	35(35)

Table 9.9: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Control second eval)

	low limit.		func.		func., cogn.	
	N.	W. N.	N.	W. N.	N.	W. N.
No lim						
ADL or	26.5(13.2)	73.5(36.5)	70(9.9)	30(4.3)	100(5)	0(0)
Incont						
Low lim,						
ADL &	100(2)	0(0)	100(5.7)	0(0)	100(1.2)	0(0)
Incont						
ADL lim	100(27.4)	0(0)	98.3(41.1)	1.7(0.7)	100(26.2)	0(0)
Incont	100(4.6)	0(0)	100(3.5)	0(0)	-(0)	-(0)
ADL &						
Incont	100(12.7)	0(0)	97.1(24.1)	2.9(0.7)	90(56.2)	10(6.2)
lim						
ADL ?						
No Incont	100(3.6)	0(0)	100(9.9)	0(0)	100(5)	0(0)
tot	63.5(63.5)	36.5(36.5)	94.3(94.3)	5.7(5.7)	93.8(93.8)	6.2(6.2)

## Inappropriate use of services

Table 9.10: IC difference of mean between treated and control for the low value IMA outcomes

	Emergency		GP out-of hours		Hospilisation	
	N	visits	N	visits	N	visits
	Use	Users	Use	Users	Use	Users
<b>low limit.</b>						
% / Med[IQR]	C	0	-	0	-	0
% / Med[IQR]	T	11.32	1[1-2]	7.55	2[1-2]	19.81
OR [IC95]		-[-/-]		-[-/-]		-[-/-]
<b>func.</b>						
% / Med[IQR]	C	0	-	11.11	1[1-1]	0
% / Med[IQR]	T	20	1[1-2]	9.09	1[1-2]	27.27
OR [IC95]		-[-/-]		-[-/-]		-[-/-]
<b>func., cogn.</b>						
% / Med[IQR]	C	0	-	0	-	0
% / Med[IQR]	T	17.48	1[1-2]	16.5	1[1-1]	34.95
OR [IC95]		-[-/-]		-[-/-]		-[-/-]

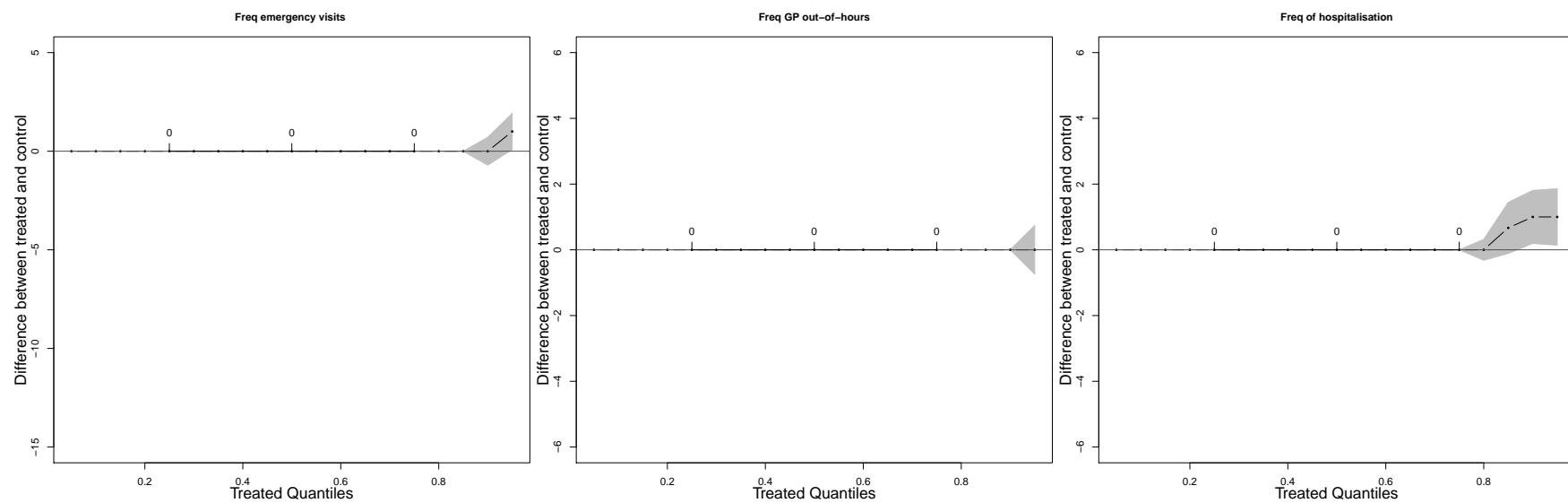


Figure 9.7: Regression quantile of inappropriate use of services (Low limitation)

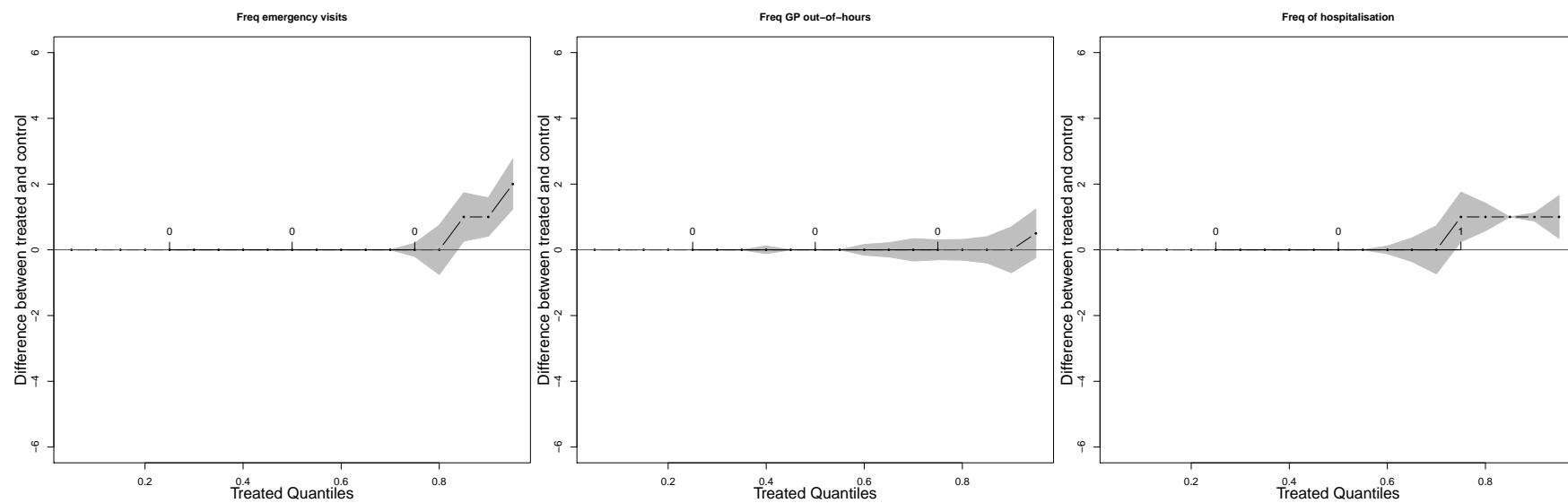


Figure 9.8: Regression quantile of inappropriate use of services (Func.)

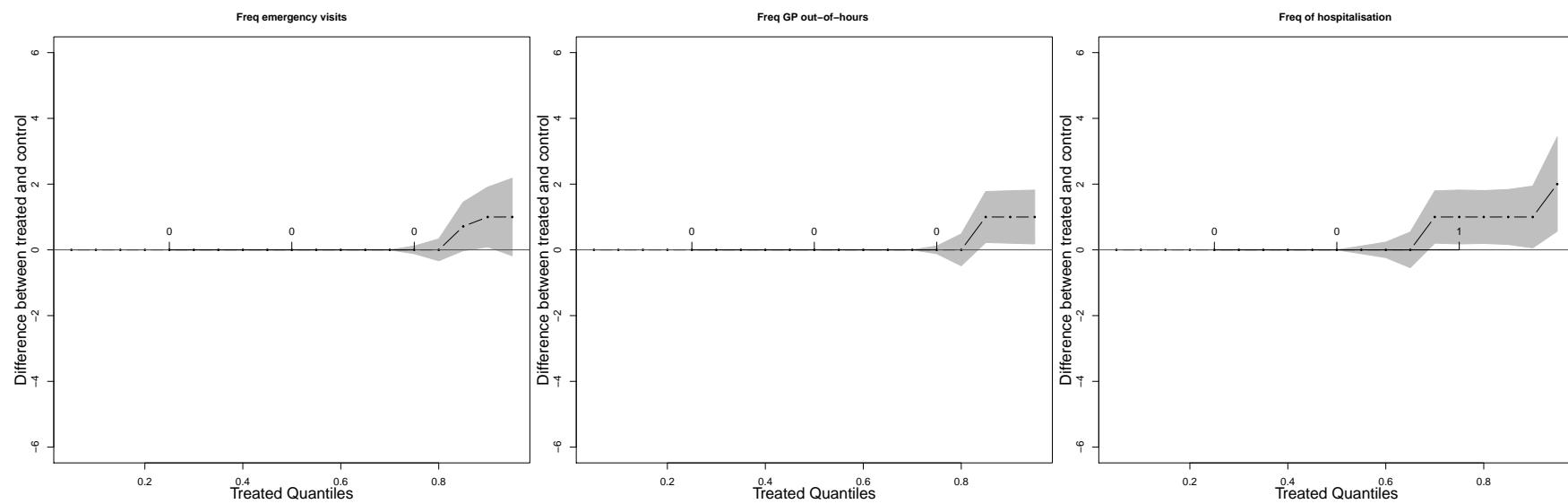


Figure 9.9: Regression quantile of inappropriate use of services (Func., cogn.)

### Definitive institutionalisation and death

Table 9.11: IC of ratio of incidence rate between treated and control for the death and the definitive institutionalisation

	Definitive institu.	Death
<b>low</b>		
<b>limit.</b>		
IR T	0.0022	0.0036
IR C	0.0044	7e-04
IC95	0.12/1.99	0.59/43.26
<b>func.</b>		
IR T	0.0075	0.0055
IR C	0.0085	0.0055
IC95	0.34/2.29	0.32/3.11
<b>func.,</b>		
<b>cogn.</b>		
IR T	0.0145	0.0059
IR C	0.0168	0.0143
IC95	0.31/2.37	0.11/1.6

### 9.1.5 Health care costs linked to disability for the NIHDI

Table 9.12: Cost of health care services and technical equipment

	Interv.		Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>												
Mean T	0	159.6	63	66.6	22.7	24.8	0.1	1.2	3.7	3	1.1	2.2
Mean C	0	0	253.7	619.8	39.2	91.3	1.7	1.4	12.1	10	1.1	0.1
IC95	0/0	154.1/165	-238.4/-147	-661.9/-441	-28.6/-4	-97.9/-41	-4.9/0	-1.9/2	-14.4/-3	-13.7/-1	-3.2/3	-0.2/5
<b>Func.</b>												
Mean T	0	143.5	138.1	183.7	36	43.3	10.7	6.2	2.8	5.4	2.9	2.7
Mean C	0	0	446.2	963	62.1	150	11.4	15.4	40.4	15.5	8	3
IC95	0/0	136.1/151	-387.1/-231	-903.1/-659	-44.3/-6	-143.5/-76	-18.6/22	-22.1/1	-48.2/-27	-18.6/-2	-16/4	-7.9/5
<b>Func. cogn.</b>												
Mean T	0	112.2	323.5	453	49.3	72.6	1.5	14.9	13.5	17	0.5	0
Mean C	0	0	913.5	1639.9	94.9	187.8	2.1	55.9	74.6	32.1	0	1.3
IC95	0/0	102.3/121	-813/-384	-1415.8/-963	-92/-5	-186.6/-51	-3.3/2	-89.9/6	-80.9/-40	-33.1/3	0/2	-2.8/0

Table 9.13: Average cost of other health care services for six months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>												
Mean T	0	0	1.4	4.3	3.9	30.3	28.4	7.1	6.5	671.8	554	
Mean C	0	0	2.5	1.9	29.5	58.5	82.6	0.6	1.2	436.5	525	
IC95	0/0	0/0	-7.4/4	-3.7/9	-53.6/-3	-42.3/-16	-68.4/-41	3.7/10	2.7/8	-9.4/489	-228.9/371	
<b>Func.</b>												
Mean T	23	33.6	11.5	9.6	35.9	38.1	36.4	3.5	3.9	1221.9	751.8	
Mean C	0	14.4	7.9	27.7	51.1	45.5	77.6	1.7	3.4	427.3	550.7	
IC95	8.3/39	-7.2/45	-8.7/16	-41/2	-62.4/29	-18.6/4	-53.6/-28	0.5/3	-1.9/3	422.4/1214	-123.1/565	
<b>Func. cogn.</b>												
Mean T	82.2	131.2	6.7	49.3	60.4	23.8	30	4.8	5.8	963.9	890.8	
Mean C	20.1	36.2	11.5	33.2	37.3	43.4	98.2	3.9	5.8	476.9	742.6	
IC95	20.8/103	24.6/163	-17.2/5	-25.8/61	-34.7/88	-31.3/-7	-128.9/-34	-1.8/4	-4.1/4	101/907	-619.4/822	

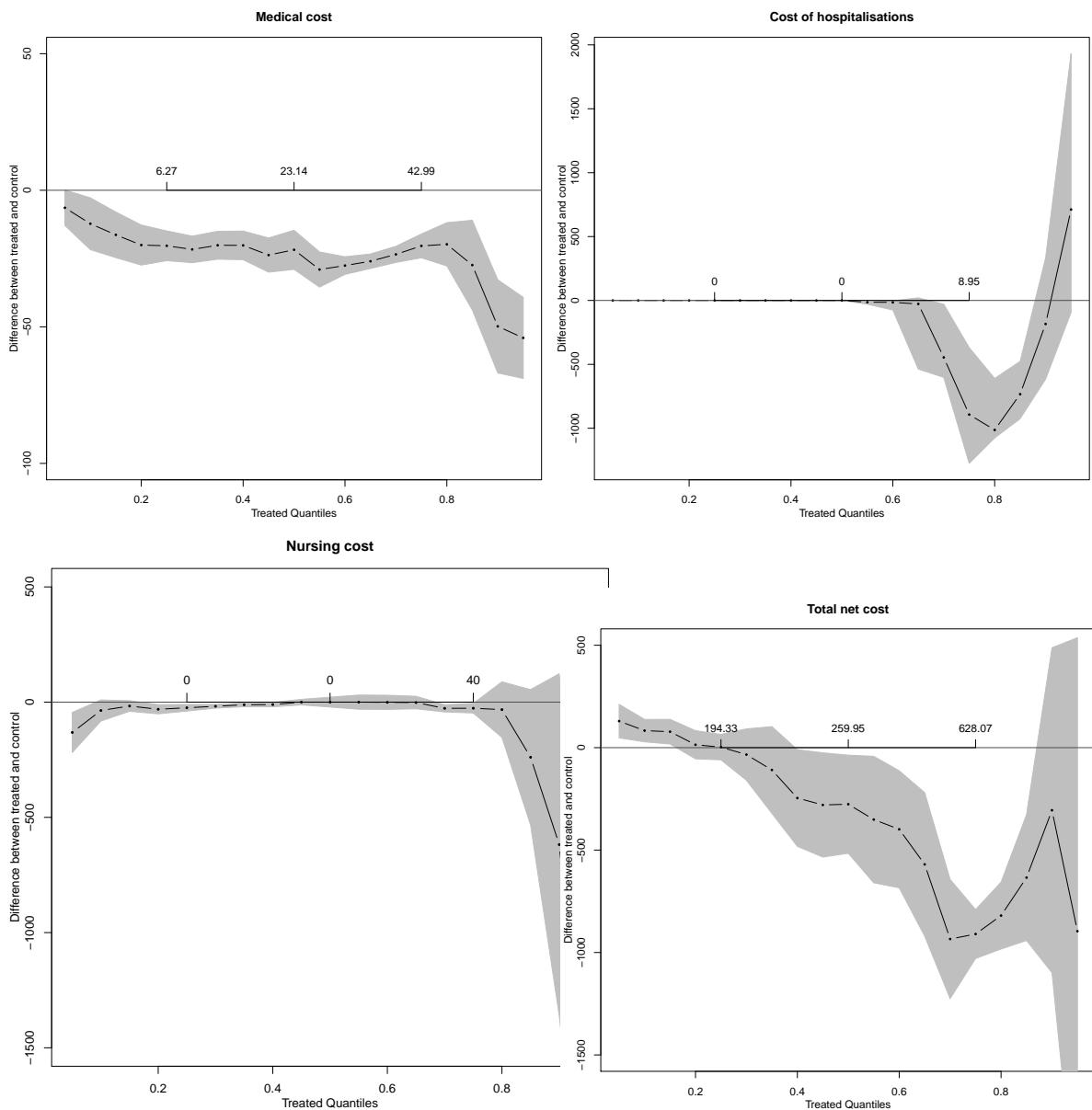


Figure 9.10: Graphs of the differences of costs between the treated and control, **for the NIHDI, for the group of low limitations, for six months**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

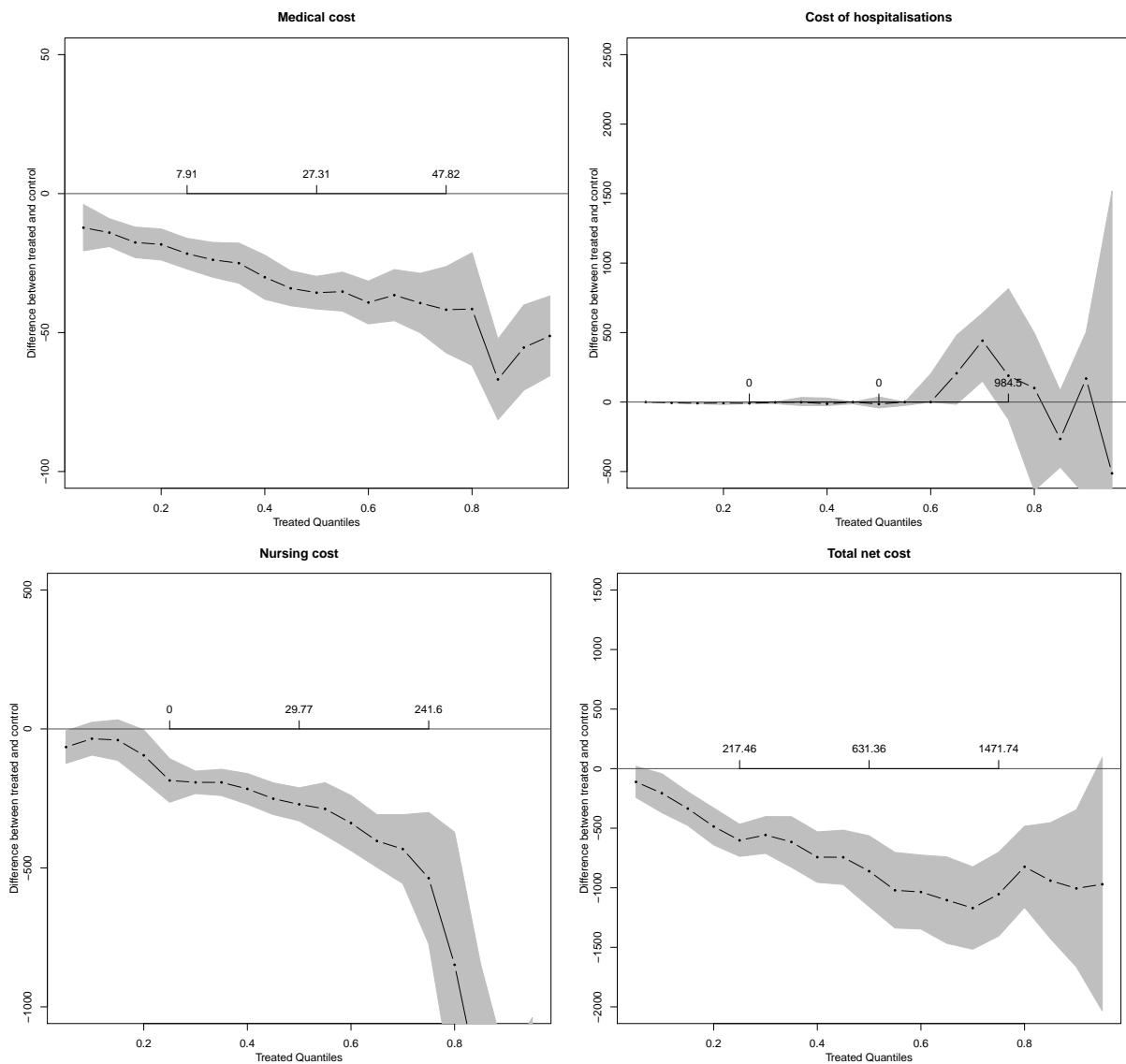


Figure 9.11: Graphs of the differences of costs between the treated and the control, for the NIHDI, for the group of functional limitations, for six months, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

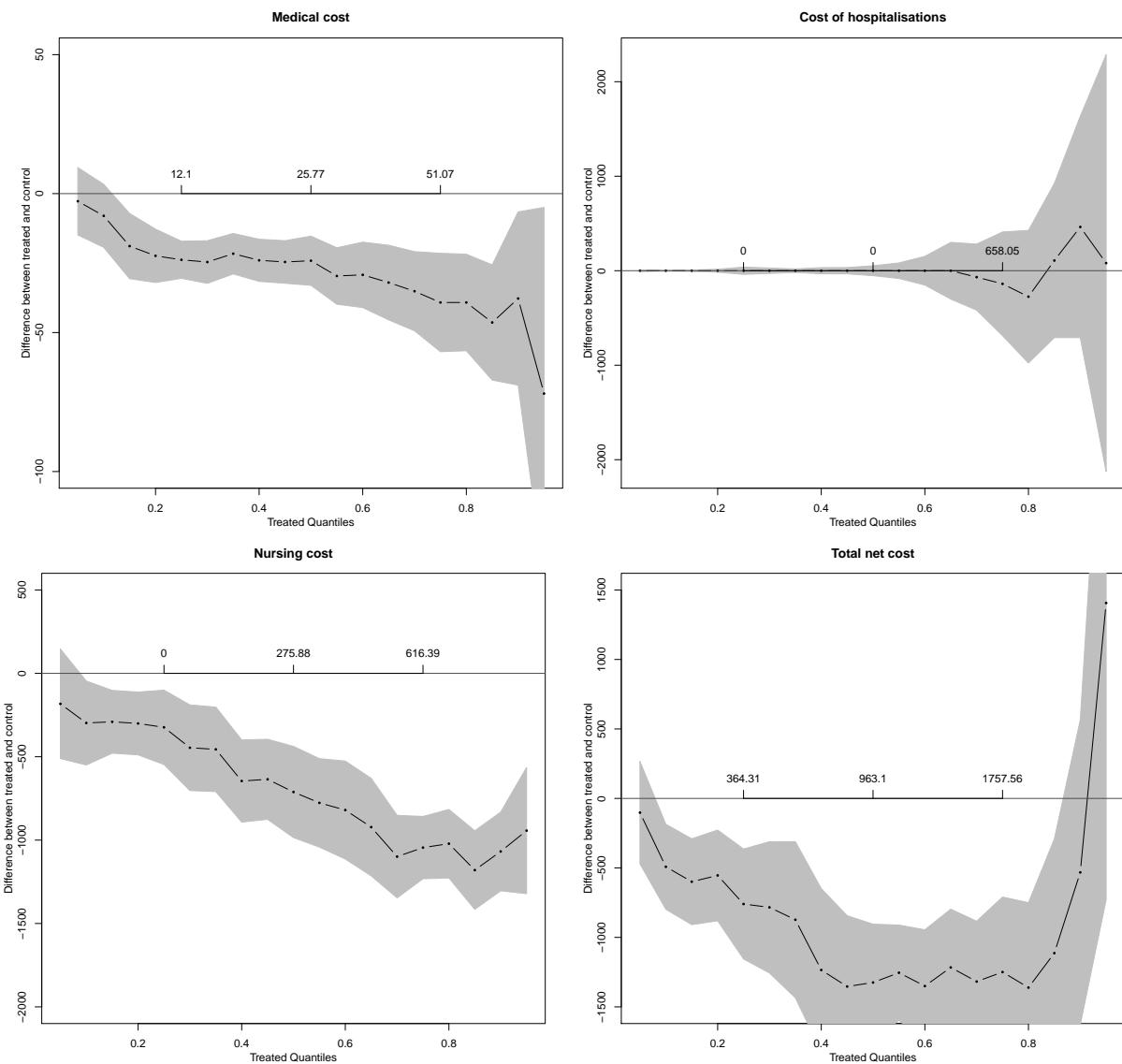


Figure 9.12: Graphs of the differences of costs between the treated and the control, **for the NIHDI, for the group of functional and cognitive impairment, for six months**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive

### 9.1.6 Health care costs for the patients

Table 9.14: Average costs of health care services and technical equipment for six months (per month, per patient)

	Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>										
Mean T	1.7	0.5	5.6	5	0	0	15.5	15.5	0.8	4.2
Mean C	4.7	5.9	9.5	12.6	0	0	25.1	25.1	1.9	0.1
IC95	-6.3/0	-9.4/-2	-7.5/-0.9	-11.7/-4.2	0/0	0/0	-17.4/-2.4	-16.4/-1.9	-5.6/2.4	-0.1/10.7
<b>Func.</b>										
Mean T	0.8	2.2	6.5	8.5	0.4	0	28.5	28.5	4.6	5.5
Mean C	10.1	31	11.8	30.7	0.6	0.1	41.8	41.8	0.4	5.2
IC95	-14.3/-4.9	-39.8/-18.3	-9.6/-1.3	-29.1/-15.6	-1.7/1	-0.2/0	-23.7/-3.6	-23.6/-3.1	-0.5/11.5	-15/13.4
<b>Func. cogn.</b>										
Mean T	1.1	4.6	8.8	14.2	0.1	0.4	40.5	40.5	0	0
Mean C	0.8	14.3	16.4	30.9	0.1	0	60.8	60.9	0	0
IC95	-0.7/1.8	-19.5/-0.4	-15.2/-0.6	-26.5/-6.8	-0.1/0.4	0/1.3	-36.7/-5.1	-35.7/-5.2	0/0	0/0

Table 9.15: Average costs of other health care services for six months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>												
Mean T	0	0	1	4.6	3.5	4.8	4.3	1.4	1.4	40.1	21.8	
Mean C	0	0	2	3.3	30.5	7.3	9.7	0.1	0.2	20.6	15.1	
IC95	0/0	0/0	-6/2.9	-8.7/9.3	-53.6/-4	-4/-0.9	-7.1/-3.7	0.7/1.8	0.6/1.8	3.2/37.2	-2/16.8	
<b>Func.</b>												
Mean T	7.9	10.8	9.3	8.2	30	5.1	4.5	1	1.1	60.6	35.6	
Mean C	0	4.6	7.2	22.9	46	6.8	11.5	0.3	0.6	30.2	38.1	
IC95	3.1/13.4	-2.2/14.9	-8.9/13.1	-32.2/1.1	-56.4/21.6	-3.5/0.1	-9.4/-4.6	0.4/1.2	0.1/1.1	6.6/54.1	-26.1/20.2	
<b>Func. cogn.</b>												
Mean T	29.7	45.4	5.1	44.8	53.7	3.1	3.8	1	1.3	52.6	48.8	
Mean C	6.2	11.2	9	31.8	35.2	7.3	13.3	0.8	1.1	32.5	33.1	
IC95	8.1/40.4	10.7/57.9	-13.6/3.1	-26/55.8	-32.3/80.9	-6.3/-1.9	-13.2/-6.2	-0.5/0.8	-1/1.2	-8.5/52.8	-20.9/51	

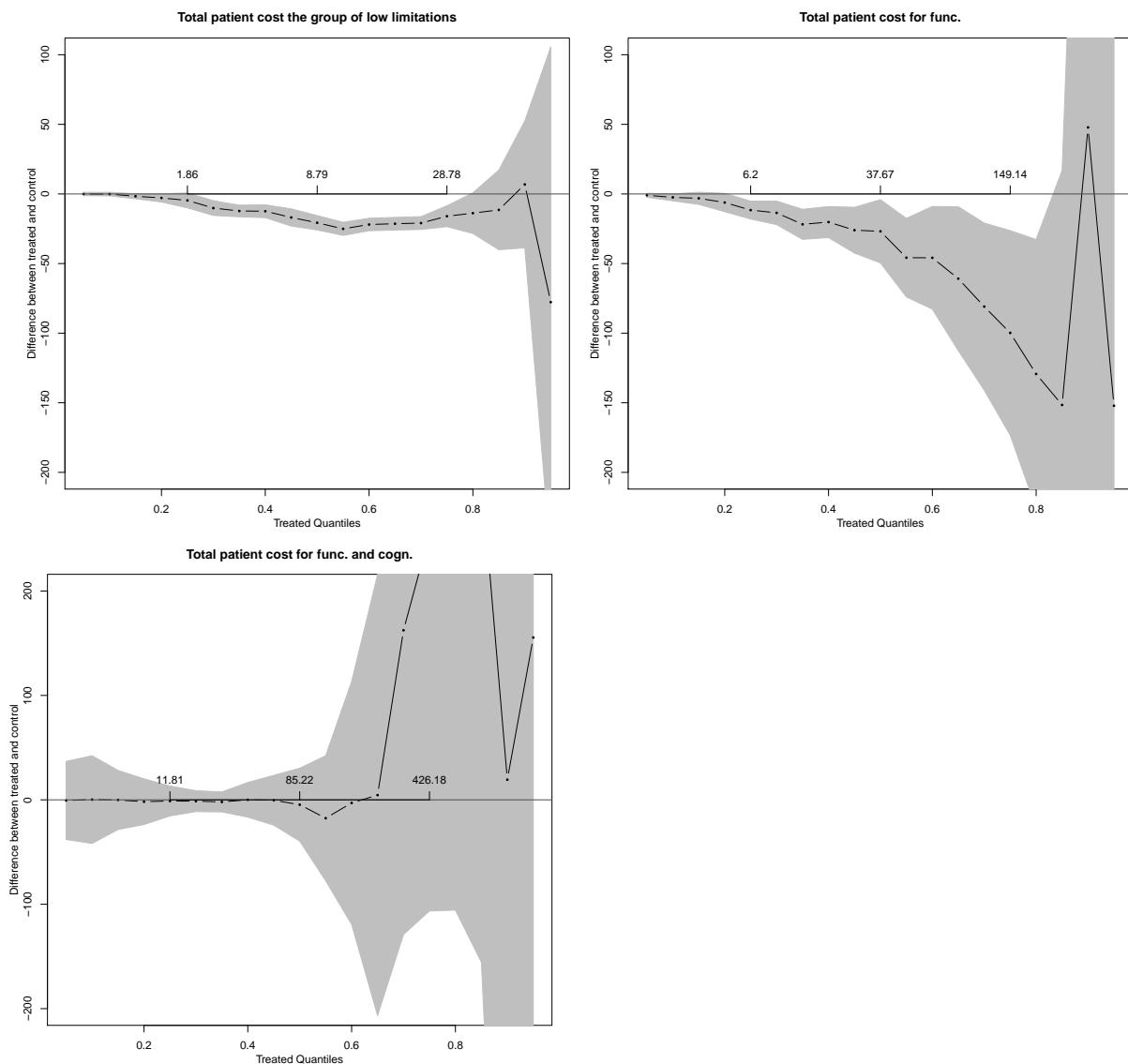


Figure 9.13: Graphs of the differences of cost for the patients (for one month), adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive

### 9.1.7 Adjusted cost differences for the stakeholders

Table 9.16: Average cost differences between treated and control group per month (adjusted according to the level of cost before intervention, socio economic proxy and deaths)

	NIHDI Home		NIHDI Home + hosp. + inter		All NIHDI + patients + regions	
	Diff mean adj.	IC95	Diff mean adj.	IC95	Diff mean adj.	IC95
Low limit.	-159	-194.8/-121.9	-337	-475.7/-217.1	-405	-535.3/-262.2
Func.	-376	-445/-310.3	-579	-710.9/-416.1	-655	-837.5/-437.4
Func. cogn.	-613	-743.6/-457.7	-692	-928.8/-374.4	-458	-860.4/102.2

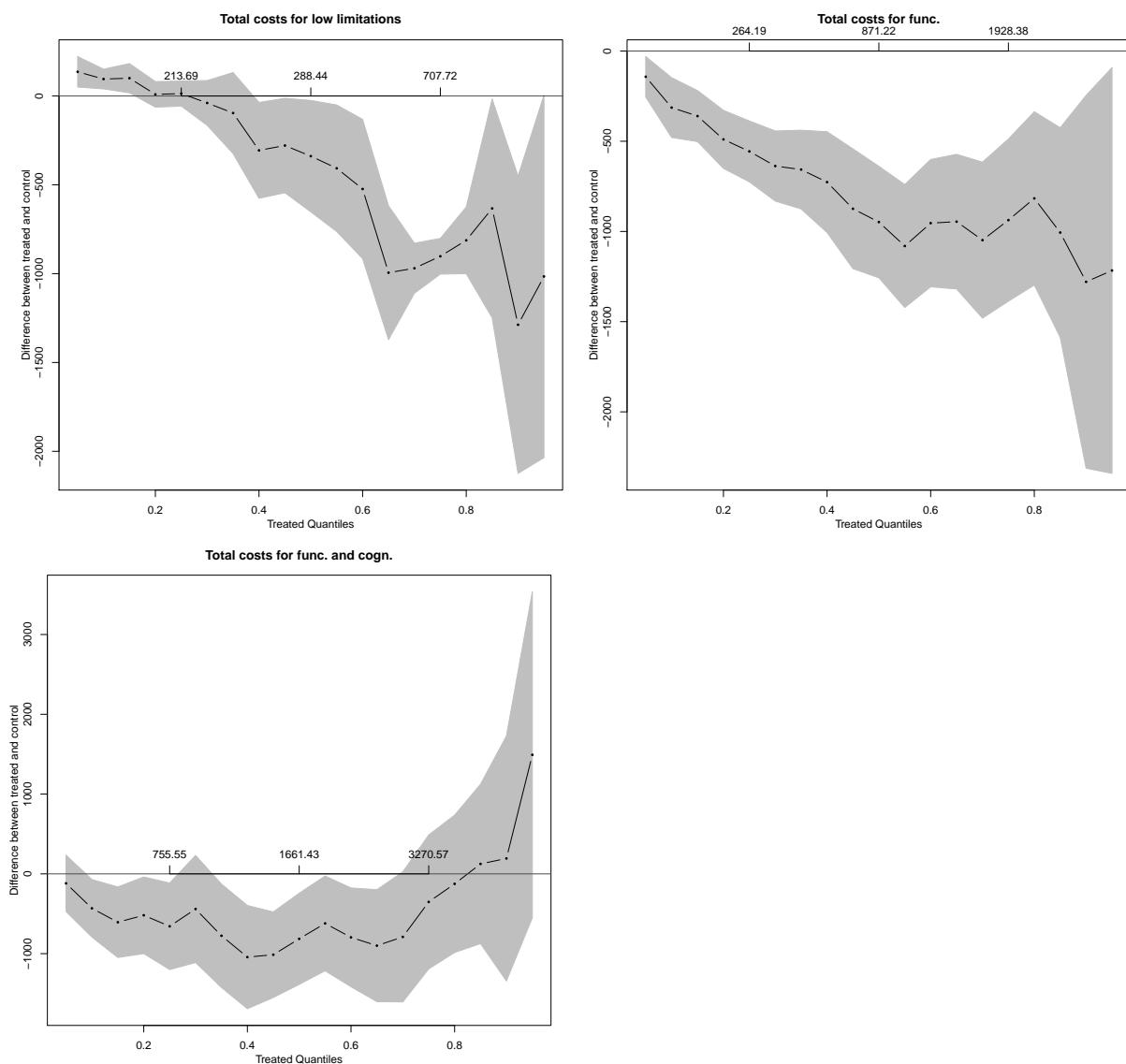


Figure 9.14: Graphs of the differences of the total cost between the treated and the control, for all stakeholders, for six months, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

### 9.1.8 Cost of social care services and informal care

Table 9.17: Average costs per month (before evaluations)

	Fam. care		Household aid		Meals-on-Wheels	
	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>						
Mean T	1243.7	960.7	263	345.7	32.4	37.3
IC95 T	803/1630	662/1249	218/316	285/410	22/44	25/50
Missing T (%)	49	56	28.4	31.9	28.4	31.9
Mean C	510.9	305.1	347.8	382.6	13.3	10.1
IC95 C	200/898	231/396	292/406	346/418	7/20	5/16
Missing C (%)	60	43	2.4	2.4	2.4	2.4
<b>Func.</b>						
Mean T	1626.4	1687.9	483.9	447.4	32.5	26.7
IC95 T	1243/2052	1221/2148	379/588	347/557	21/44	16/39
Missing T (%)	39.6	42.9	21.4	31.6	21.4	31.6
Mean C	1982.2	1243.5	410.4	441.6	45.3	37
IC95 C	1228/2520	742/1722	334/491	364/532	30/62	26/48
Missing C (%)	50.5	39.6	0.8	11.1	0.8	11.1
<b>Func. cogn.</b>						
Mean T	3112.3	3251.8	346.9	425.2	17.7	16.6
IC95 T	2546/3739	2738/3747	235/478	306/565	7/30	7/28
Missing T (%)	42.9	39	20.8	19.5	20.8	19.5
Mean C	3029.5	2510.8	531.3	558.2	11.3	16.5
IC95 C	2194/3776	1839/3097	401/681	443/680	3/22	6/29
Missing C (%)	49.4	39	1.3	7.8	1.3	7.8

### 9.1.9 Number of days at home and in residential facilities for six months

Table 9.18: Average number of days for 6 months

	Temp. NH		Hosp.		Def. NH		Days home		Days alive	
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Aft	Aft	Aft
<b>Low limit.</b>										
Mean T	0.1	0.5	9	5	0.5	165.5	166.6	178.7		
Mean C	0.2	0.2	5.2	5.5	3.9	150.6	147.4	181.8		
Diff. TC. IC95	-0.7/0	-0.4/1	0.3/7	-2.8/2	-7.1/-1	4.5/24	8.1/28	-6.1/0		
<b>Func.</b>										
Mean T	1.2	1.1	16	7.9	3.9	154.6	157.3	177.8		
Mean C	0.9	2.7	4.8	5.3	5.9	161.9	152.4	179.1		
Diff. TC. IC95	-1/2	-3.8/0	6.2/17	-0.3/6	-7.4/3	-18.3/3	-6.8/15	-6/3		
<b>Func. cogn.</b>										
Mean T	0.7	5.1	13.2	12.8	6.1	160.8	149.3	179.8		
Mean C	1.2	3.4	6.2	5.4	3.8	171.2	158.9	173.3		
Diff. TC. IC95	-1.8/0	-2.9/6	0.9/13	0.9/16	-3.4/9	-21.4/0	-24.6/5	0/14		

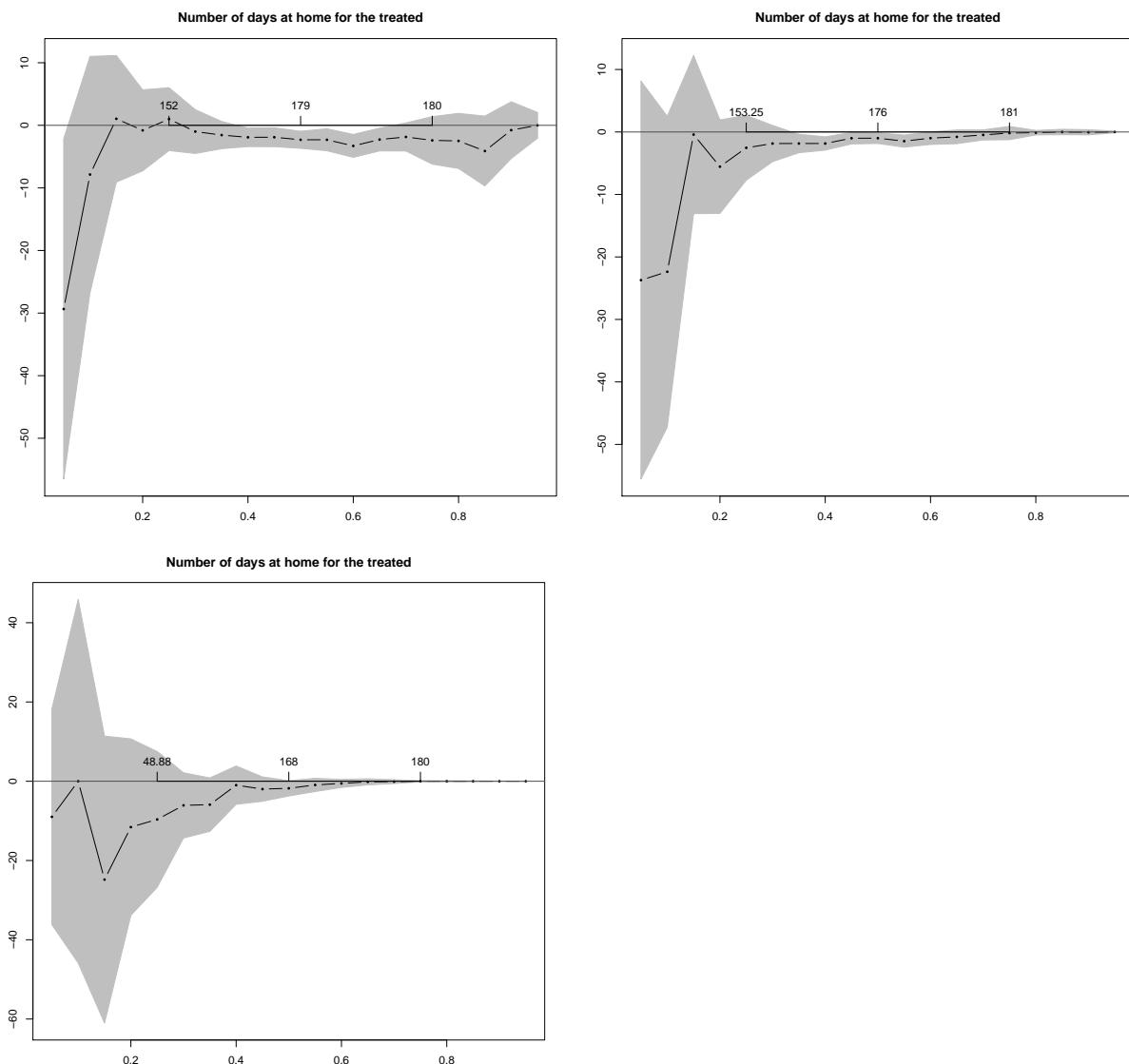


Figure 9.15: Graphs of the differences of days spent at home (for six months and adjusted according to the proxy of the socio economic status and the number of days alive for the six months)

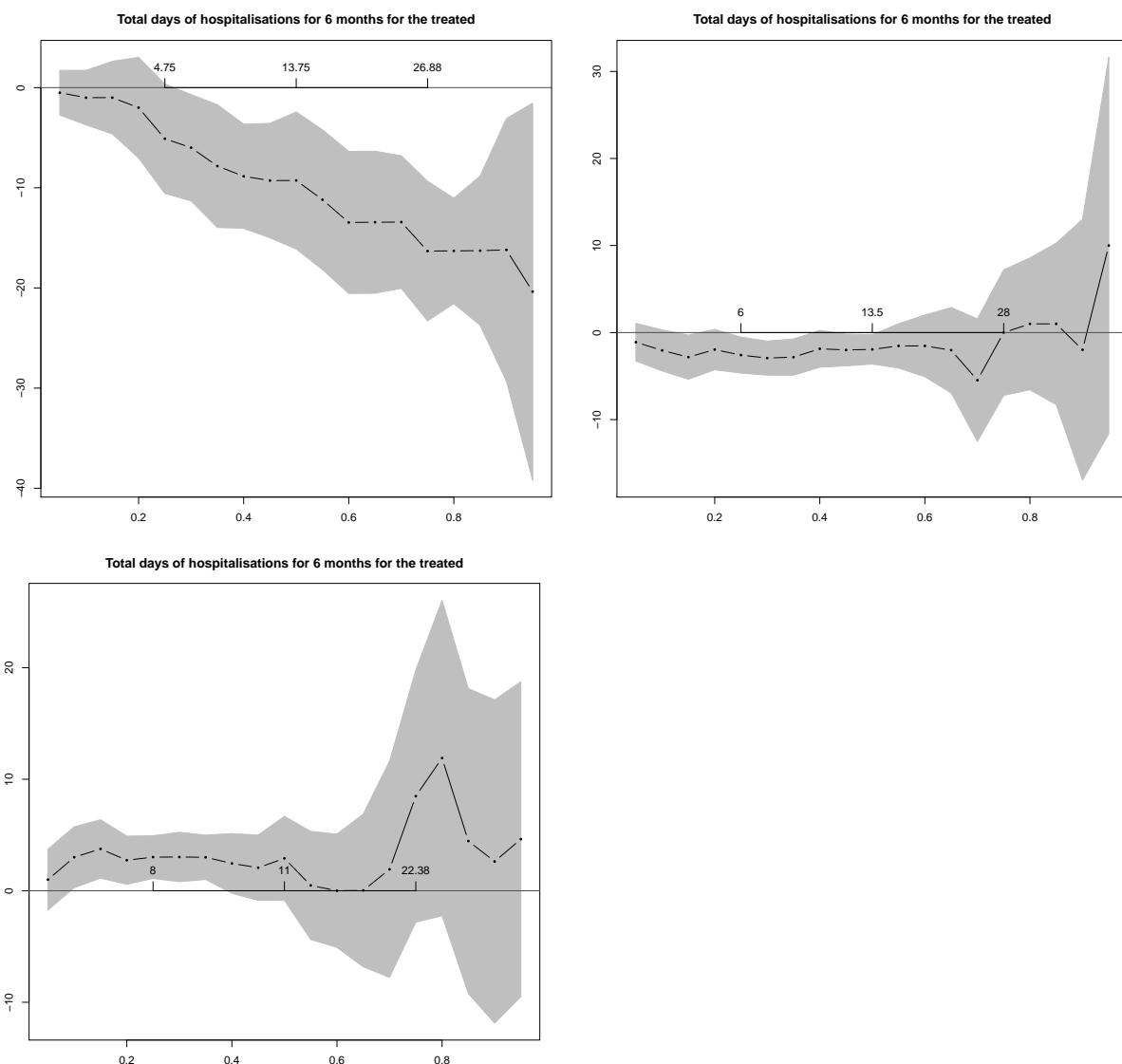


Figure 9.16: Graphs of the differences of days spent in hospital between treated and control between treated and control (for six months and adjusted according to the proxy of the socio economic status and the number of days alive for the six months)

# Chapter 10

## Psychological screening with CM

### 10.1 Comparison with the BelRAI control group

#### 10.1.1 Description of disability groups

Table 10.1: Proportion above the cut off of BelRAI scales depend on the subgroups of disability for the project PSY Screening

	low limit.	func.	func., cogn.
IADL	2.99	92.44	100.00
ADL	4.48	52.33	82.95
CPS	10.45	9.88	97.73
Behav.	7.46	12.79	35.23
DRS	23.88	29.65	31.82
N	67.00	172.00	88.00

### 10.1.2 Description of socio-demographic variables

Table 10.2: Sociodemographic characteristics for the treated and the control group depend on the health profiles

	low limit.		func.		func., cogn.	
	T	C	T	C	T	C
<b>Age</b>						
Median[IQR]	82[78-86]	81[78-85]	82[77-88]	82[77-87]	82[72-86]	85[78-88]
<b>Gender</b>						
% Men	28.36	14.93	36.05	29.07	34.09	23.86
% Women	71.64	85.07	63.95	70.93	65.91	76.14
<b>ICG</b>						
% No ICG	47.76	47.76	25.58	25.58	0	0
% No cohabitant	43.28	43.28	44.77	44.77	32.95	32.95
% Cohabitant	8.96	8.96	29.65	29.65	67.05	67.05
<b>Region</b>						
Bruxelles	22.39	0	11.05	0	5.68	0
Flandre	0	50.75	6.4	62.21	17.05	71.59
Wallonie	77.61	49.25	82.56	37.79	77.27	28.41
<b>Median income</b>						
Low	49.25	25.37	53.49	29.07	39.77	12.5
Medium	50.75	49.25	42.44	49.42	53.41	51.14
High	0	25.37	4.07	21.51	6.82	36.36
<b>N</b>						
Unique value	67	28	172	111	88	50

### 10.1.3 Clinical outcome

Table 10.3: BelRai outcomes

	DRS		Loneliness	
	Bef	Aft	Bef	Aft
<b>low limit.</b>				
% cut off C	29.85	29.85	35.82	34.33
% cut off T	23.88	23.88	32.84	32.84
IC95	0.74[0.3/1.62]	0.86[0.18/2.75]	0.88[0.4/1.9]	1.23[0.11/79681433.18]
% NA	0	0	0	0
<b>func.</b>				
% cut off C	26.74	28.07	24.12	27.91
% cut off T	29.65	30.41	42.94	40.12
IC95	1.15[0.73/1.89]	0.9[0.45/1.63]	2.37[1.53/3.93]	0.69[0.26/1.46]
% NA	0	0.58	1.16	0
<b>func., cogn.</b>				
% cut off C	54.55	56.32	15.48	14.1
% cut off T	31.82	33.33	20.24	16.67
IC95	0.39[0.2/0.72]	0.29[0.05/1.42]	1.39[0.61/3.2]	1.07[0.12/731.79]
% NA	0	1.14	4.55	11.36

Table 10.4: Zarit outcome

		<b>Non Cohab</b>		<b>Cohab</b>	
		Bef	Aft	Bef	Aft
<b>low limit.</b>					
% cut off C	4.76	4.76		20	16.67
% cut off T	42.86	28.57		40	50
IC95	-[-/-]	-[-/-]		-[-/-]	-[-/-]
% NA	27.59	27.59		16.67	0
<b>func.</b>					
% cut off C	19.67	38.78		40.91	22.86
% cut off T	32.79	30.61		50	37.14
IC95	1.99[0.89/5.31]	0.63[0.07/2.36]		1.44[0.61/3.28]	1.51[0.41/61.56]
% NA	20.78	36.36		13.73	31.37
<b>func., cogn.</b>					
% cut off C	34.78	23.53		55.56	66.67
% cut off T	60.87	58.82		62.96	61.54
IC95	2.92[0.86/12]	7.03[0/3.79039350937832e+97]		1.36[0.57/3.26]	0.54[0/3.66]
% NA	20.69	41.38		8.47	33.9

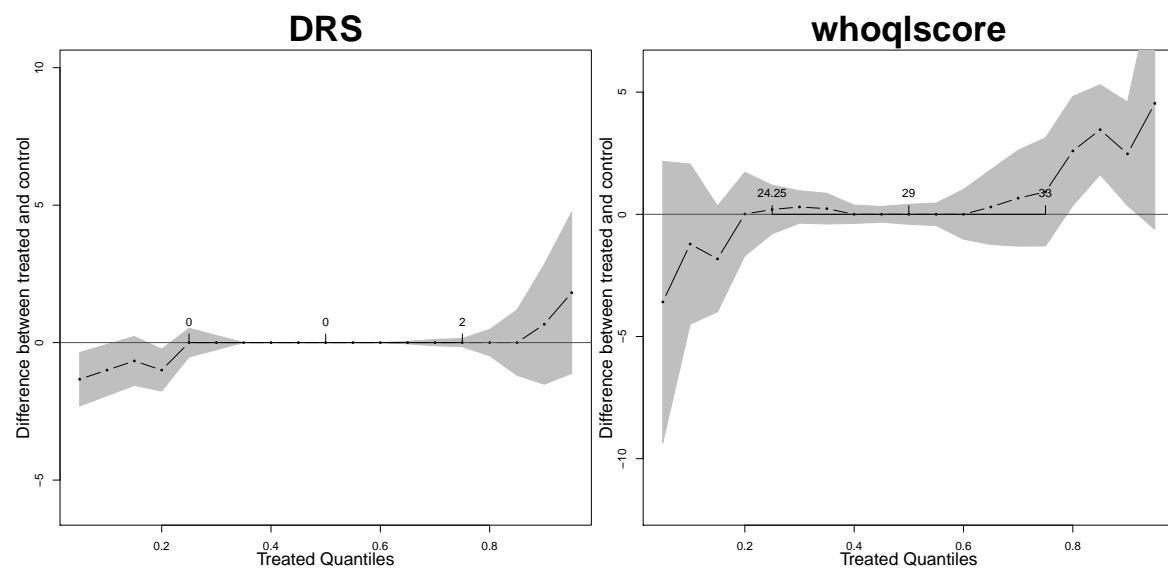


Figure 10.1: Regression quantile of depressive troubles and quality of life (Low limitation)

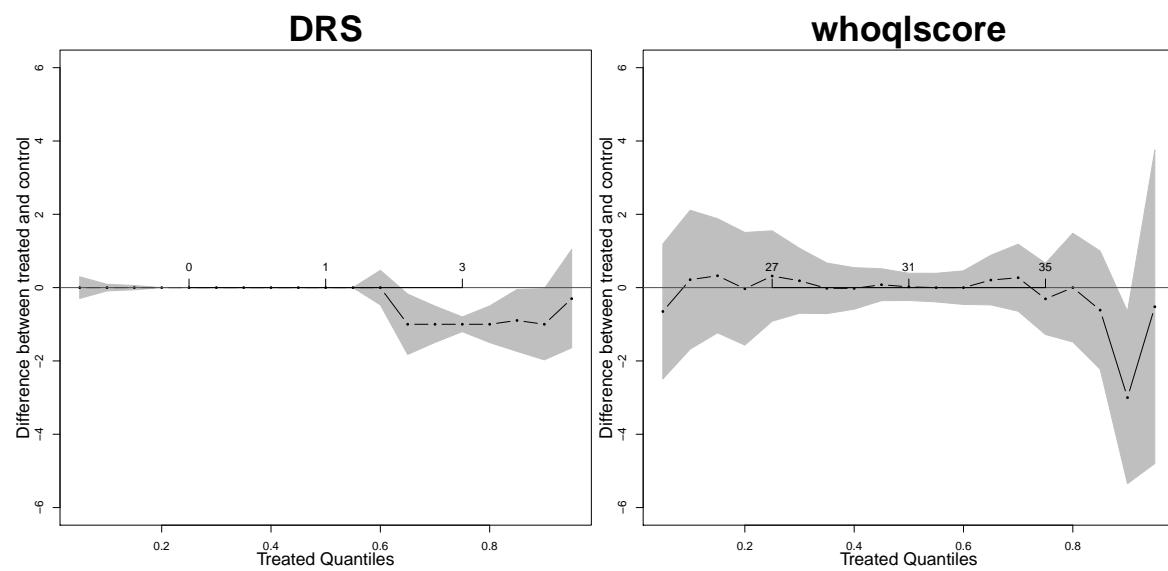


Figure 10.2: Regression quantile of depressive troubles and quality of life(Func.

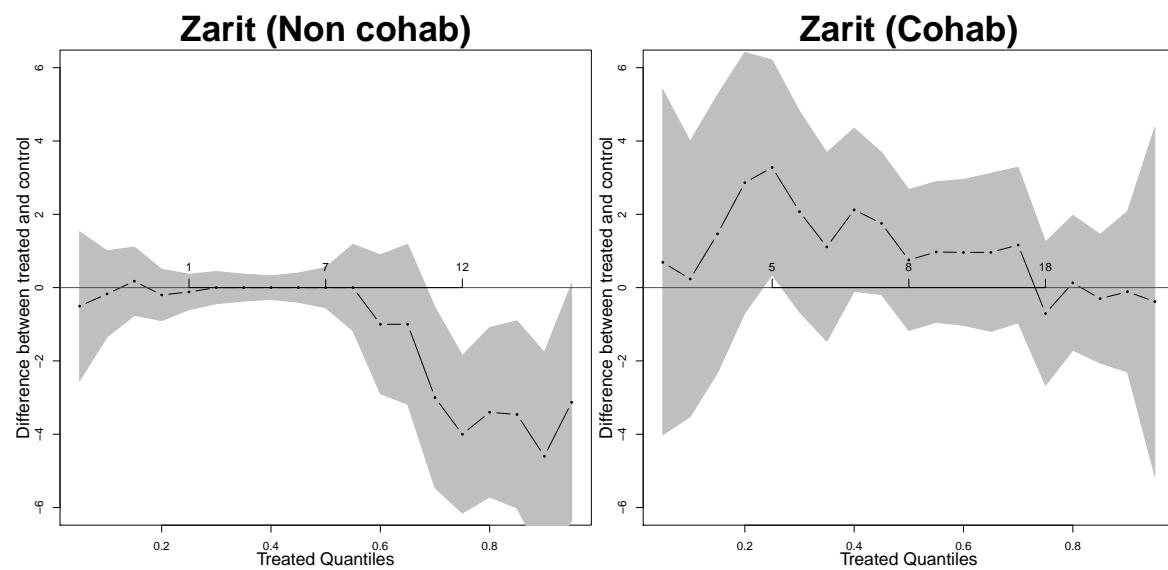


Figure 10.3: Regression quantile of burden clinical outcome (Func.

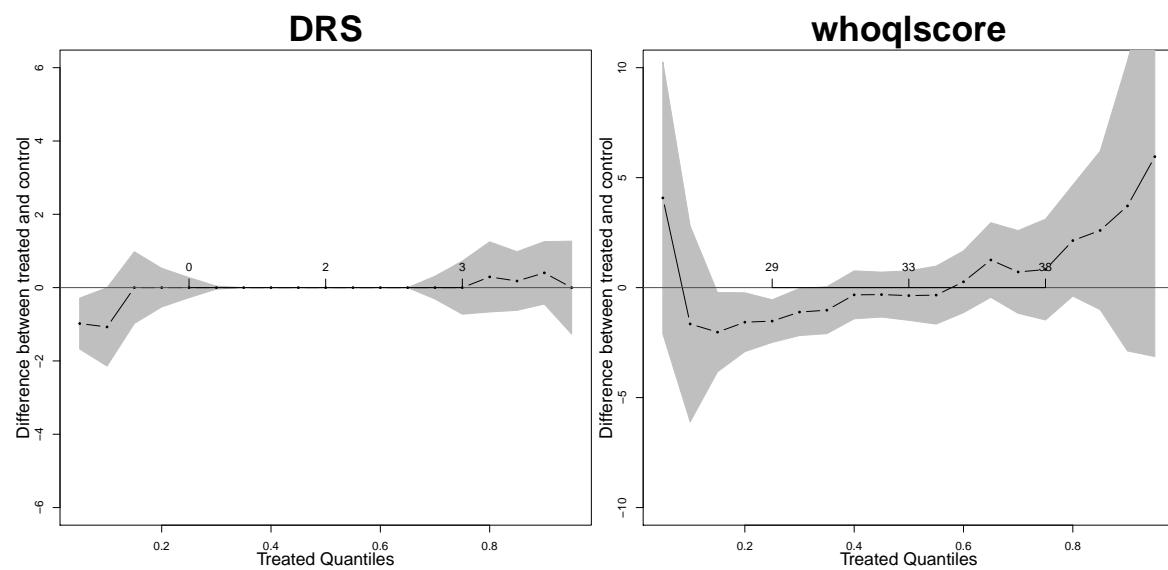


Figure 10.4: Regression quantile of depressive troubles and quality of life (Func., cogn.)

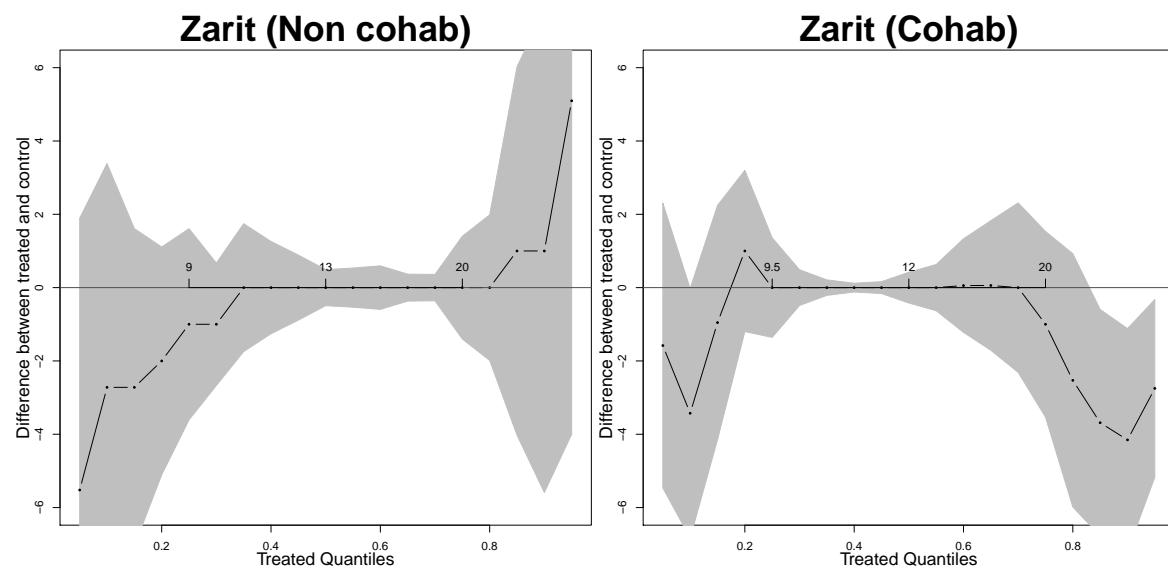


Figure 10.5: Regression quantile of burden clinical outcome (Func., cogn.)

### 10.1.4 Utilisation of services

#### Appropriate use of services

Table 10.5: IC difference of mean between treated and control for the dependency IMA outcomes

	Nursing Care		Short term institu.		Day care center	
	N months		N stays		N days	
	Use	Users	Use	Users	Use	Users
<b>low limit.</b>						
% / Med[IQR] C	84.27	7[7-8]	0	-	1.12	85[85-85]
% / Med[IQR] T	71.91	9[4-11]	0	5[5-5]	0	-
OR [IC95]	1.02[0.41/2.42]		-[-/-]		-[-/-]	
<b>func.</b>						
% / Med[IQR] C	95.91	8[7-9]	0	-	1.75	109[97-109]
% / Med[IQR] T	84.8	8[5-9]	0.58	3[2-4]	1.17	54[44-63]
OR [IC95]	0.48[0.13/1.23]		-[-/-]		-[-/-]	
<b>func., cogn.</b>						
% / Med[IQR] C	99.21	7[5-9]	0	-	2.36	81[81-129]
% / Med[IQR] T	83.72	8[4-10]	0.78	3[2-5]	2.33	101[68-162]
OR [IC95]	0.43[0/3.01]		-[-/-]		-[-/-]	

Table 10.6: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated at inclusion)

	low limit.		func.		func., cogn.	
	N.	W. N.	N.	W. N.	N.	W. N.
No lim						
ADL or Incont	23.8(7.8)	76.2(25)	22.2(1.2)	77.8(4.2)	100(1.2)	0(0)
Low lim, ADL & Incont	0(0)	100(3.1)	25(0.6)	75(1.8)	-(0)	-(0)
ADL lim	11.8(3.1)	88.2(23.4)	25.4(9.1)	74.6(26.7)	15(3.7)	85(21)
Incont	20(3.1)	80(12.5)	50(1.2)	50(1.2)	100(1.2)	0(0)
ADL & Incont lim	14.3(3.1)	85.7(18.8)	33.7(17)	66.3(33.3)	31.5(21)	68.5(45.7)
ADL ? No Incont	-(0)	-(0)	66.7(2.4)	33.3(1.2)	60(3.7)	40(2.5)
tot	17.2(17.2)	82.8(82.8)	31.5(31.5)	68.5(68.5)	30.9(30.9)	69.1(69.1)

Table 10.7: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Control at inclusion)

	low limit.		func.		func., cogn.	
	N.	W. N.	N.	W. N.	N.	W. N.
No lim						
ADL or	9.1(3.1)	90.9(31.2)	66.7(3.6)	33.3(1.8)	0(0)	100(1.2)
Incont						
Low lim,						
ADL &	100(1.6)	0(0)	0(0)	100(1.2)	100(1.2)	0(0)
Incont						
ADL lim	56.5(20.3)	43.5(15.6)	80.6(32.7)	19.4(7.9)	69.2(11.1)	30.8(4.9)
Incont	100(1.6)	0(0)	0(0)	100(1.2)	100(1.2)	0(0)
ADL &						
Incont	100(18.8)	0(0)	93.5(35.2)	6.5(2.4)	78(56.8)	22(16)
lim						
ADL ?						
No Incont	0(0)	100(7.8)	91.3(12.7)	8.7(1.2)	100(7.4)	0(0)
tot	45.3(45.3)	54.7(54.7)	84.2(84.2)	15.8(15.8)	77.8(77.8)	22.2(22.2)

Table 10.8: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated second eval)

	low limit.		func.		func., cogn.	
	N.	W. N.	N.	W. N.	N.	W. N.
No lim						
ADL or	47.6(15.6)	52.4(17.2)	55.6(3)	44.4(2.4)	0(0)	100(1.2)
Incont						
Low lim,						
ADL &	100(3.1)	0(0)	100(2.4)	0(0)	-(0)	-(0)
Incont						
ADL lim	64.7(17.2)	35.3(9.4)	74.6(26.7)	25.4(9.1)	70(17.3)	30(7.4)
Incont	40(6.2)	60(9.4)	75(1.8)	25(0.6)	100(1.2)	0(0)
ADL &						
Incont	85.7(18.8)	14.3(3.1)	80.7(40.6)	19.3(9.7)	88.9(59.3)	11.1(7.4)
lim						
ADL ?						
No Incont	-(0)	-(0)	66.7(2.4)	33.3(1.2)	60(3.7)	40(2.5)
tot	60.9(60.9)	39.1(39.1)	77(77)	23(23)	81.5(81.5)	18.5(18.5)

Table 10.9: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Control second eval)

	low limit.		func.		func., cogn.	
	N.	W. N.	N.	W. N.	N.	W. N.
No lim						
ADL or Incont	18.2(6.2)	81.8(28.1)	77.8(4.2)	22.2(1.2)	100(1.2)	0(0)
Low lim, ADL & Incont						
ADL & Incont	100(1.6)	0(0)	100(1.2)	0(0)	100(1.2)	0(0)
ADL lim						
Incont	100(35.9)	0(0)	100(40.6)	0(0)	100(16)	0(0)
ADL & Incont lim						
ADL ? No Incont	100(18.8)	0(0)	98.4(37)	1.6(0.6)	96.6(70.4)	3.4(2.5)
tot	100(7.8)	0(0)	100(13.9)	0(0)	100(7.4)	0(0)
	71.9(71.9)	28.1(28.1)	98.2(98.2)	1.8(1.8)	97.5(97.5)	2.5(2.5)

## Inappropriate use of services

Table 10.10: IC difference of mean between treated and control for the low value IMA outcomes

	Emergency		GP out-of hours		Hospilisation	
	N visits		N visits		N visits	
	Use	Users	Use	Users	Use	Users
<b>low limit.</b>						
% / Med[IQR] C	26.97	2[2-6]	5.62		10[2-10]	24.72
% / Med[IQR] T	28.09	2[2-4]	10.11		2[2-4]	33.71
OR [IC95]	0.8[0.35/1.69]		2.45[0.82/97165502.17]			1.2[0.59/2.77]
<b>func.</b>						
% / Med[IQR] C	16.37	2[2-2]	11.11		2[2-2]	20.47
% / Med[IQR] T	28.65	2[2-2]	13.45		2[2-3]	34.5
OR [IC95]	1.95[1.19/3.48]		1.62[0.74/3.48]			1.82[1.11/2.99]
<b>func., cogn.</b>						
% / Med[IQR] C	15.75	2[2-4]	7.87		2[2-4]	15.75
% / Med[IQR] T	22.48	2[2-4]	13.18		2[2-2]	25.58
OR [IC95]	1.1[0.52/2.45]		2.23[0.8/7.11]			1.86[0.94/4.08]

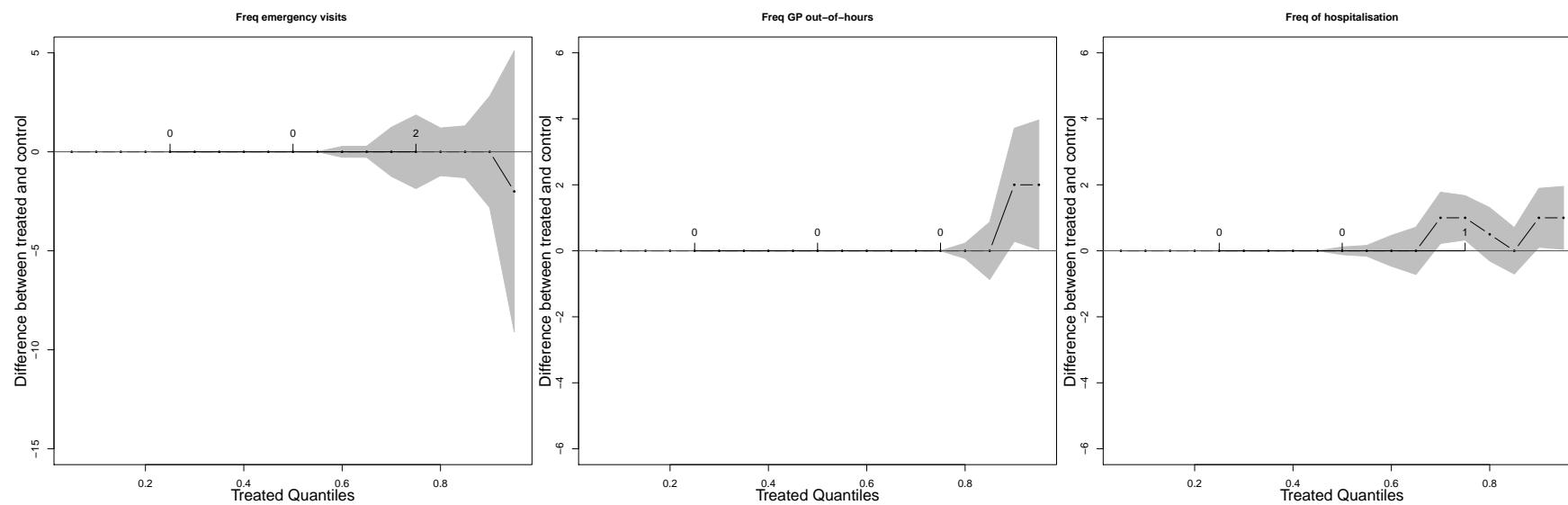


Figure 10.6: Regression quantile of inappropriate use of services (Low limitation)

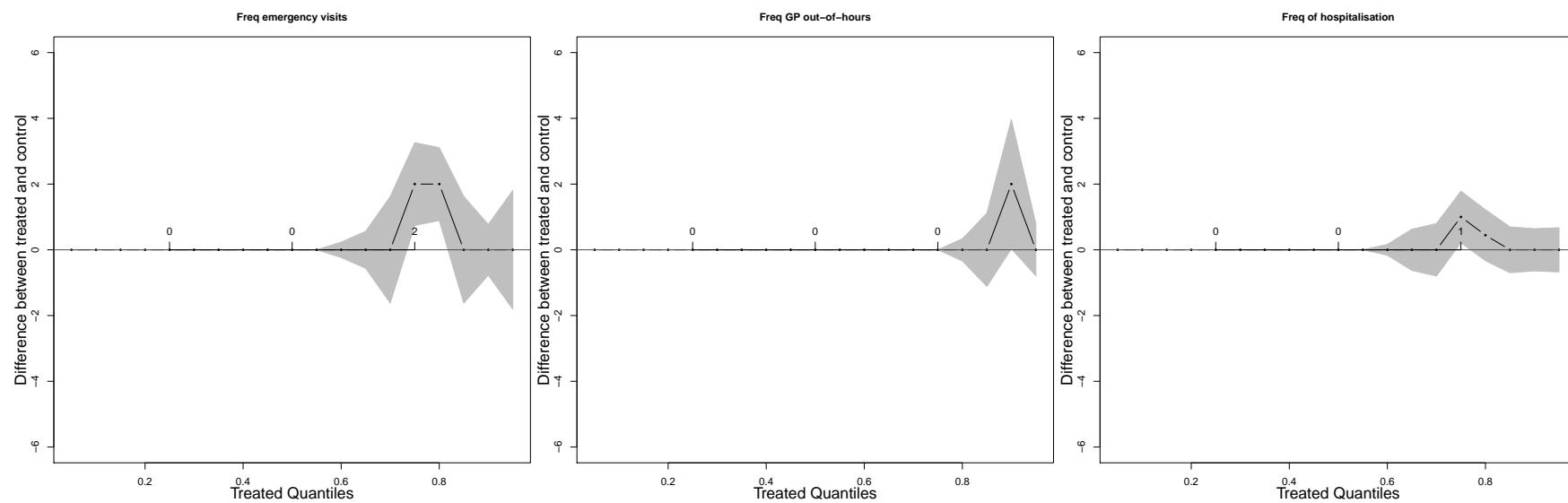


Figure 10.7: Regression quantile of inappropriate use of services (Func.)

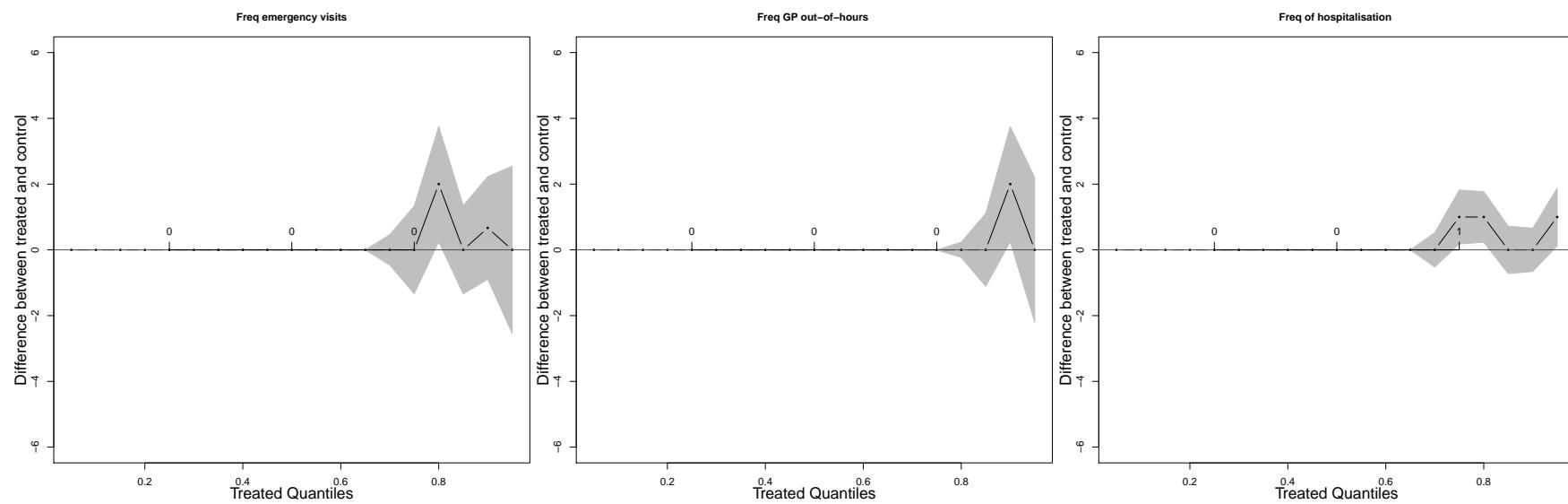


Figure 10.8: Regression quantile of inappropriate use of services (Func., cogn.)

### Definitive institutionalisation and death

Table 10.11: IC of ratio of incidence rate between treated and control for the death and the definitive institutionalisation

	Definitive institu.	Death
<b>low</b>		
<b>limit.</b>		
IR T	0.0058	0.0096
IR C	0.0058	0
IC95	0.2/5.01	NaN/Inf
<b>func.</b>		
IR T	0.0147	0
IR C	0.0101	0.012
IC95	0.41/5.18	0/NaN
<b>func.,</b>		
<b>cogn.</b>		
IR T	0.013	0.0212
IR C	0.0178	0.0075
IC95	0.37/1.44	1.31/6.08

### 10.1.5 Health care costs linked to disability for the NIHDI

Table 10.12: Cost of health care services and technical equipment

	Interv.		Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>												
Mean T	0	110.1	50.4	379.7	11.4	63.8	0	13.8	1.8	11.3	4.9	10.3
Mean C	0	0	286	575.6	29.1	66.7	1.3	1.9	17.4	7.9	12.4	0.4
IC95	0/0	101.7/118	-309.7/-157	-370.4/-32	-32.3/-3	-38.8/33	-3.2/0	-1.9/37	-27.2/-5	-8.4/16	-24.8/7	-0.4/25
<b>Func.</b>												
Mean T	0	120	163.1	681.9	45.3	135.1	4.7	6.1	16.1	24.5	2.6	5.2
Mean C	0	0	629.6	1201.6	93.3	166.8	10.3	50.1	61.1	15.4	2.6	5.2
IC95	0/0	113.5/126	-568.3/-364	-690.6/-354	-74.9/-24	-75/6	-12.4/1	-102.7/-6	-60.5/-32	-4.6/24	-7.7/8	-10.3/10
<b>Func. cogn.</b>												
Mean T	0	99.1	280.8	1135.3	61.3	198.4	8.4	9.3	29.6	47.4	0	12.4
Mean C	0	0	1078.7	1691.9	89.3	140.4	0.4	38	77.5	20	1.8	7.6
IC95	0/0	89.1/109	-1003.4/-597	-795.3/-294	-67.4/8	0.5/111	-0.9/24	-61.4/-1	-66.6/-29	12.5/42	-5.3/0	-9.2/21

Table 10.13: Cost of other health care services

	Daycare		Temp. NH		Def. NH	GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>											
Mean T	0	0	0	0.8	18.8	9.2	54.7	0.7	4.4	616.4	919.9
Mean C	0	7.5	28.1	0	38.1	55.8	78.2	2	3.9	421.4	675.3
IC95	0/0	-22.5/0	-50.7/-6	0/3	-72/31	-63.5/-32	-45.8/-3	-3.2/0	-3/4	-185/688	-307.2/801
<b>Func.</b>											
Mean T	0	5.8	19.7	14.4	26.6	19.9	74.7	0.9	2	1232.6	933.5
Mean C	2.6	6.7	0.9	24.3	13.4	54.4	93.7	3.1	4.3	495.1	515.9
IC95	-10.3/0	-20.2/16	3.3/38	-39.7/18	-23.5/48	-48.6/-23	-48/8	-4.1/0	-5.4/0	305.6/1222	18.8/859
<b>Func. cogn.</b>											
Mean T	0	8.1	11.4	13.9	82.8	21.5	91.6	1.1	3.1	956.8	1147.9
Mean C	15.4	12.9	9.7	25.5	141	59.6	95.8	4.1	4	773.4	292.7
IC95	-38.5/0	-25.8/18	-13.6/18	-31.7/9	-138.8/24	-51.7/-24	-33.2/29	-5.8/-1	-3.8/2	-275.3/744	393.3/1396

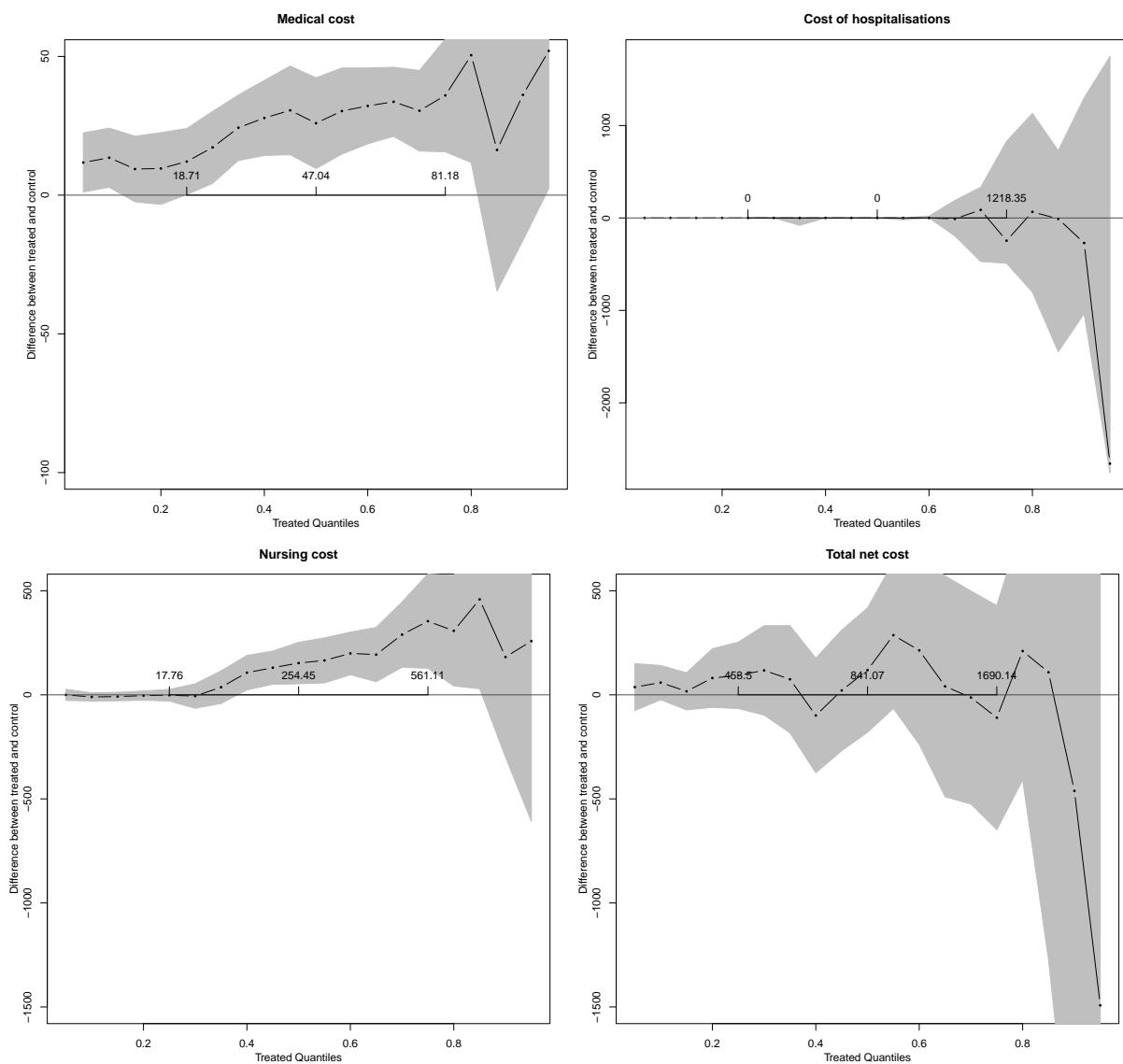


Figure 10.9: Graphs of the differences of costs between treated and control **for the NHDI, for the group of low limitations, for six months** adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

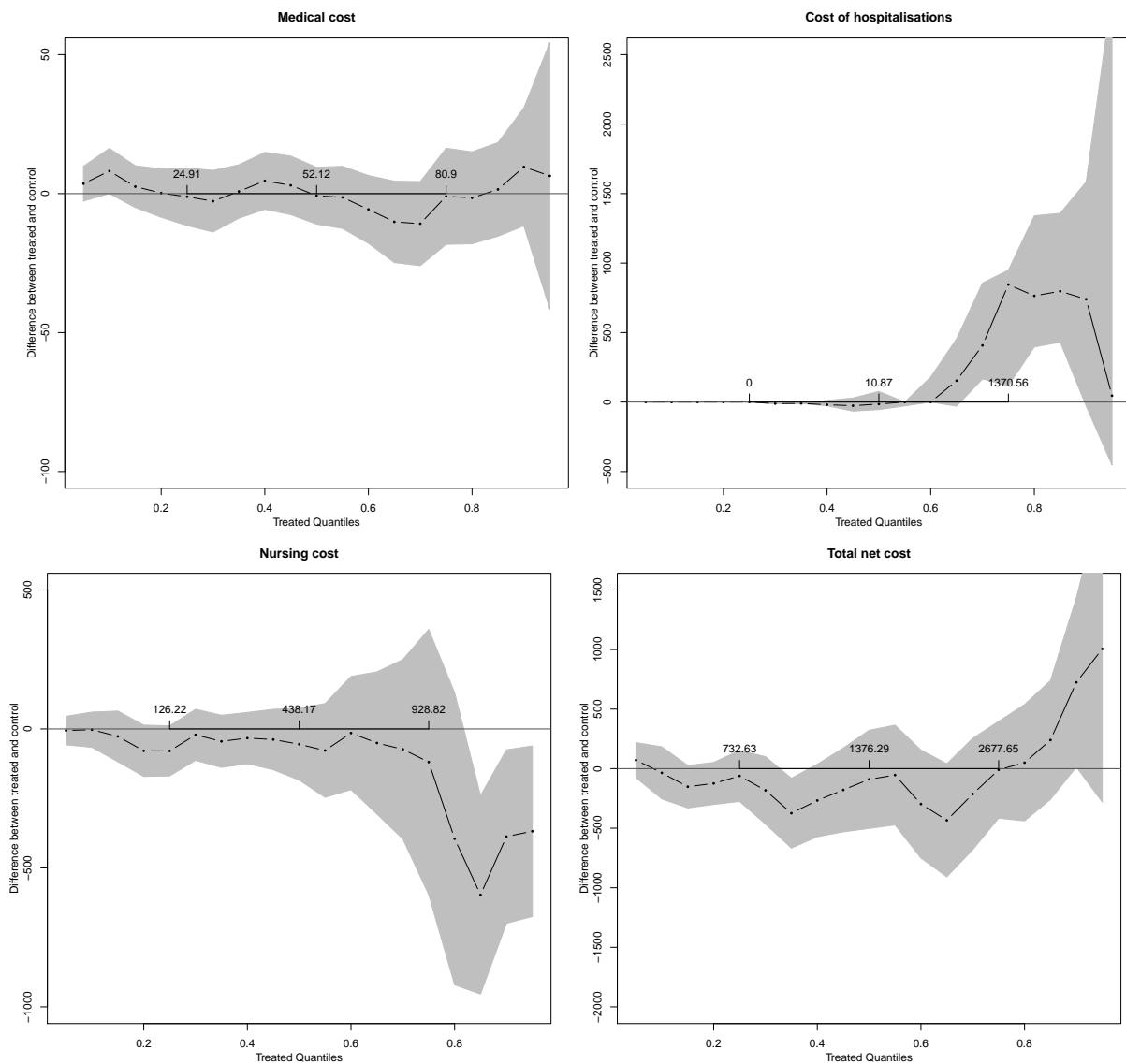


Figure 10.10: Graphs of the differences of costs between treated and control **for the NIHDI, for the group of functional limitations, for six months** adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

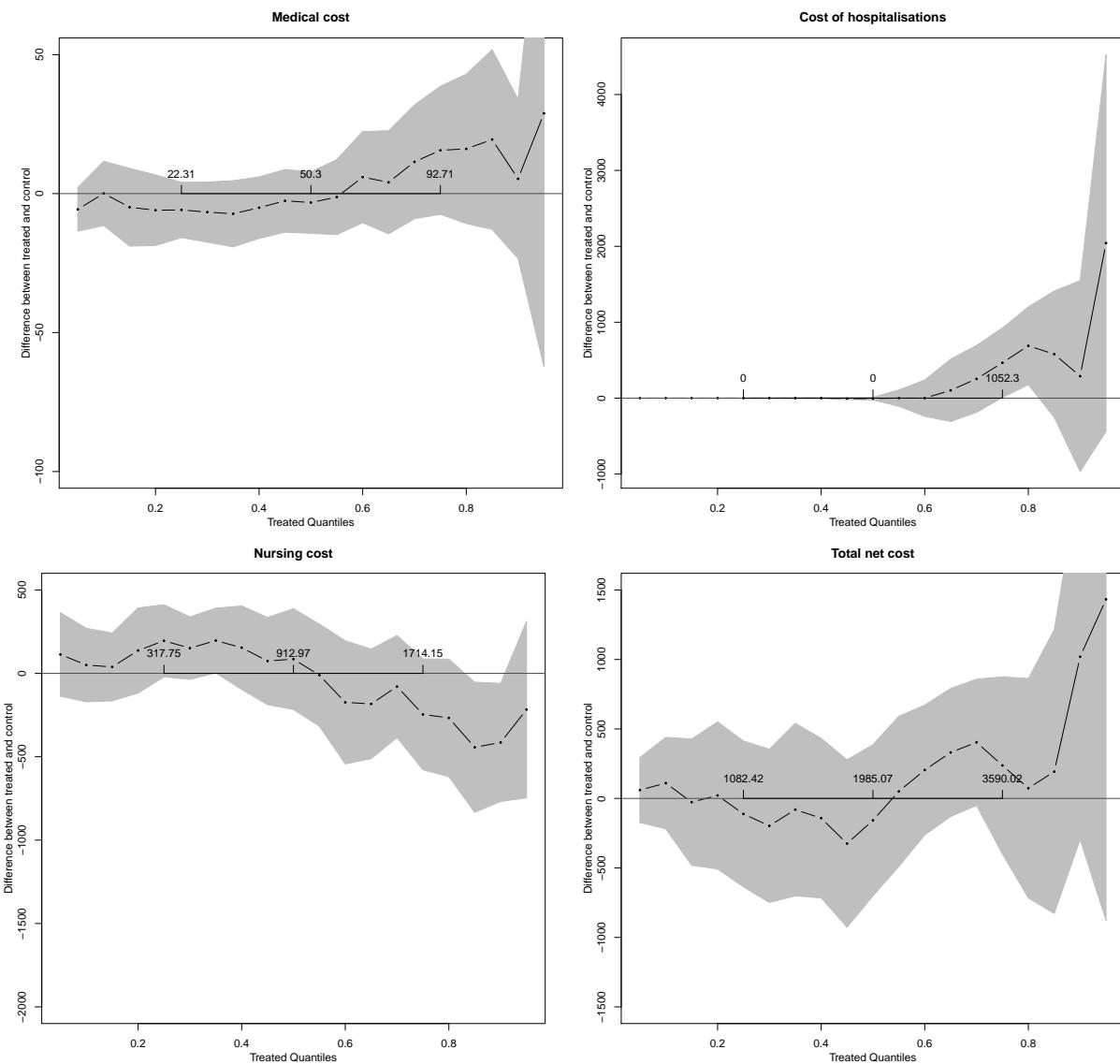


Figure 10.11: Graphs of the differences of costs between treated and control **for the NIHDI, for the group of functional and cognitive impairment, for six months** adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

### 10.1.6 Health care costs for the patients

Table 10.14: Average costs of health care services and technical equipment for six months (per month, per patient)

	Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>										
Mean T	3.8	34.9	3	14.4	0	0	37.1	37.1	3.3	4.7
Mean C	4.6	7.3	10	13.4	0	0.1	24.7	24.7	13.3	0.3
IC95	-5.6/3.1	16.1/39.4	-12.7/-2.1	-6.1/9.1	0/0	-0.3/0	-2.2/27	-2.2/27	-27/5.2	-0.5/11.5
<b>Func.</b>										
Mean T	7.5	46.9	12.4	31.2	0	1.3	46.8	46.8	0.9	12.3
Mean C	4.4	11.3	13	23.6	0	0.1	50.3	50.3	1.1	1.3
IC95	-2.5/9.3	23.2/48.3	-5.4/5	-1.3/16.3	0/0	-0.2/3.8	-12.9/6.4	-13.5/7	-3.3/2.8	-2.4/31
<b>Func. cogn.</b>										
Mean T	8.5	43.7	11.6	38.9	0	0	67.5	67.5	0	13.5
Mean C	2.8	6	12.6	21.5	0	0	64.3	64.3	1.7	2.9
IC95	-1.1/14.1	23.5/53.4	-7.5/5.9	2.7/31.8	-0.1/0	0/0	-8.7/14.3	-8/14.2	-5/0	-1.6/26.3

Table 10.15: Average cost of other health care services for six months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>												
Mean T	0	0	0	1.8	21.1	2.1	9.4	0	0.9	0.3	0.5	
Mean C	0	2.4	22.5	0	37.8	8.8	11.4	0.4	0.9	35	31.9	
IC95	0/0	-7.2/0	-44.3/-4.7	0/5.4	-66.7/31.2	-9.2/-4.2	-6.2/1.5	-0.6/-0.1	-0.8/0.9	-55.6/-17.6	-52.8/-13.6	
<b>Func.</b>												
Mean T	0	1.6	14.2	23.2	40.5	4.1	12.7	0.3	0.6	0.9	5.5	
Mean C	0.5	4.5	3.4	18.2	29.6	6.8	9.5	0.3	0.6	30.2	28.1	
IC95	-1.4/0	-8.4/1.6	0.4/23.1	-16.3/27.7	-26.5/48.1	-5.3/-0.5	0.3/6.3	-0.3/0.2	-0.4/0.4	-44.2/-17.2	-41.1/-6.5	
<b>Func. cogn.</b>												
Mean T	3.6	7.2	13.1	21.3	100.7	4	13.4	0.3	0.7	4.9	0.7	
Mean C	5.8	6.8	10.9	35.8	106.1	10	12.5	0.6	0.6	45.7	17.5	
IC95	-11.6/8.7	-12.9/13	-11.2/15.4	-43.4/13.9	-80.7/67.6	-11.2/-1.8	-5.3/7.3	-0.8/0.1	-0.5/0.8	-65/-18.7	-24/-10.4	

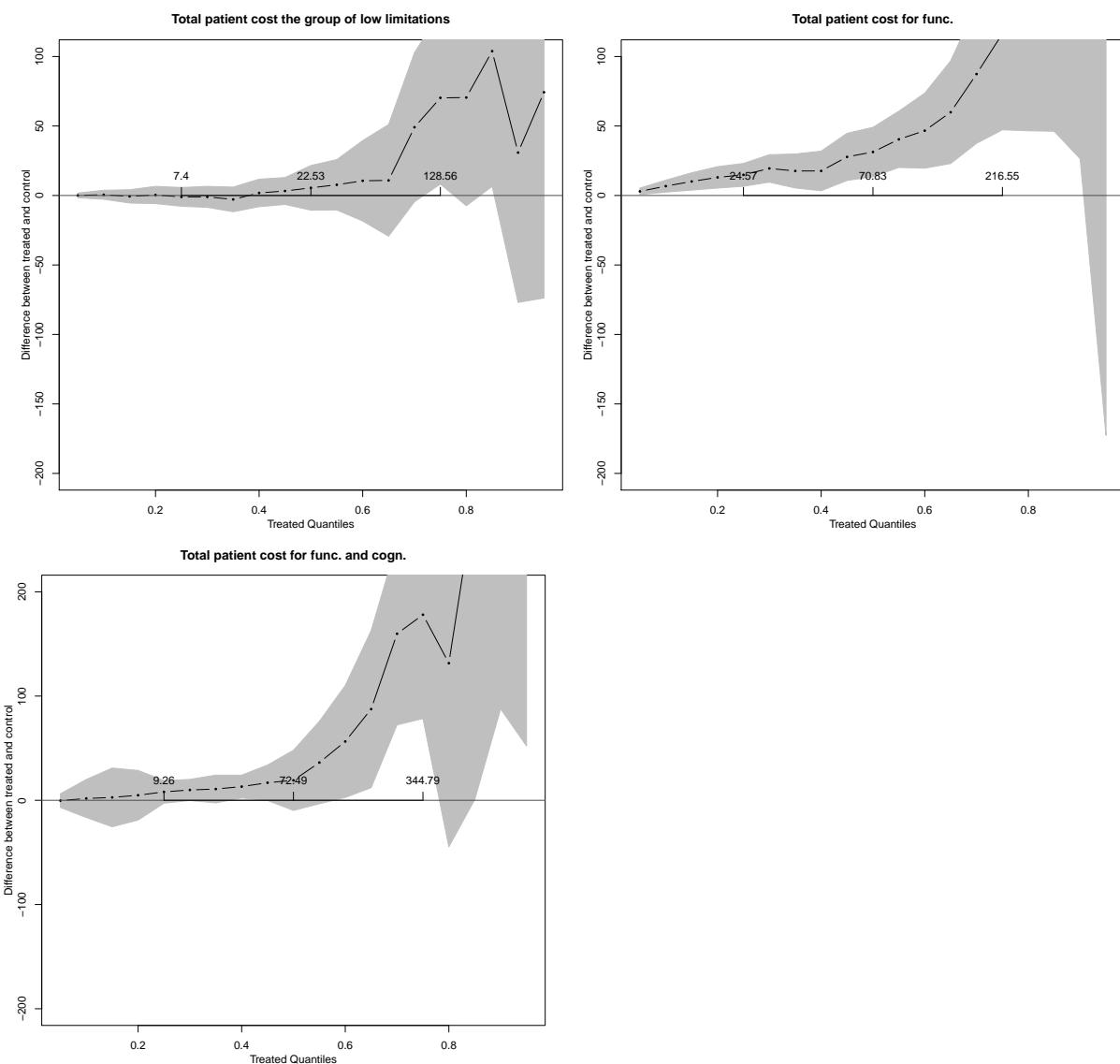


Figure 10.12: Graphs of the differences of the total cost for the patients (per month, per patient)

### 10.1.7 Adjusted cost differences for the stakeholders

Table 10.16: Average cost differences between treated and control group per month (adjusted according to the level of cost before intervention, socio economic proxy and deaths)

	NIHDI Home		NIHDI Home + hosp. + inter		All NIHDI + patients + regions	
	Diff mean adj.	IC95	Diff mean adj.	IC95	Diff mean adj.	IC95
Low limit.	279	-18.8/787.2	206	-213.9/910.3	246	-286.2/983.3
Func.	-146	-327.8/67.9	-16	-305/343.9	30	-305.7/448.5
Func. cogn.	87	-257.1/484.5	309	-273.6/1004.3	481	-140/1309.4

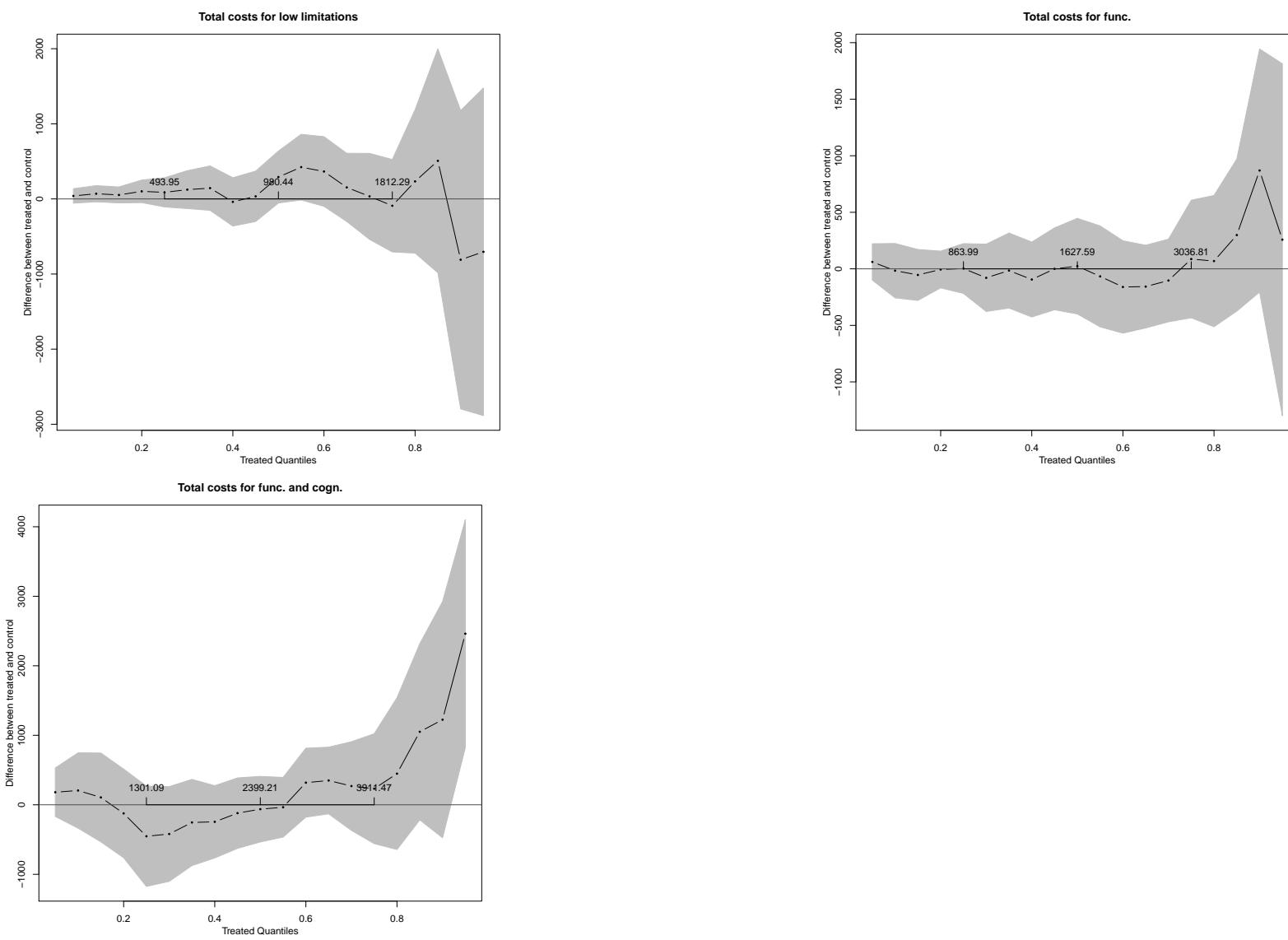


Figure 10.13: Graphs of the differences of the total cost between treated and control for all stakeholder (per month, per patient)

### 10.1.8 Cost of social care services and informal care

Table 10.17: Average costs per month (before evaluations)

	Fam. care		Household aid		Meals-on-Wheels	
	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>						
Mean T	747.7	963	318.7	453.9	10.1	25.1
IC95 T	238/1629	150/2159	247/402	368/551	1/21	9/44
Missing T (%)	60	74.3	20.9	37.3	20.9	37.3
Mean C	637	304.2	201.8	286.5	10.5	5.4
IC95 C	94/1501	188/454	154/250	232/339	3/20	2/11
Missing C (%)	60	31.4	4.5	10.4	4.5	10.4
<b>Func.</b>						
Mean T	1556.3	663	530.4	520.3	17.4	22.9
IC95 T	784/2452	314/1208	370/719	388/675	6/30	11/37
Missing T (%)	66.2	69.1	31.1	24.4	30	23.3
Mean C	1325.9	1570.5	415.5	610.8	33	22.4
IC95 C	834/1919	1012/2168	338/502	460/802	18/49	10/36
Missing C (%)	35.3	39.7	5.6	11.1	5.6	11.1
<b>Func. cogn.</b>						
Mean T	2228.4	2750.2	491.8	473.1	5.8	11.9
IC95 T	1296/3265	1554/3935	311/679	309/660	0/13	1/25
Missing T (%)	72.6	79.5	27.4	38.4	27.4	38.4
Mean C	1943.5	2242.7	570.6	524.2	18.7	16
IC95 C	1261/2722	1515/3068	414/740	363/692	7/32	6/28
Missing C (%)	52	56.2	1.4	9.6	1.4	9.6

### 10.1.9 Number of days at home and in residential facilities for six months

Table 10.18: Average number of days for 6 months

	Temp. NH		Hosp.		Def. NH		Days home		Days alive
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Aft	Aft
<b>Low limit.</b>									
Mean T	0.7	0.8	7.2	6.1	1.7	163.1	161.3	180.2	
Mean C	1.1	0.1	5.2	5.4	4.2	157.1	155.2	182.4	
Diff. TC. IC95	-1.9/1	-0.2/2	-1.1/5	-2.6/4	-7.7/2	-5/18	-6.2/19	-4/-1	
<b>Func.</b>									
Mean T	3.8	3.3	13.1	7	3	156.1	155.5	176.7	
Mean C	1.2	1.6	3.9	4	1	160.3	157.1	178.8	
Diff. TC. IC95	0.7/5	-0.4/4	5.8/13	0.5/6	-0.7/5	-12.8/5	-10.7/8	-6.4/2	
<b>Func. cogn.</b>									
Mean T	3.8	4.9	14	8.6	12.1	158.9	144.8	173.8	
Mean C	0.5	3.2	6	6.8	5.3	172.1	157.2	174.6	
Diff. TC. IC95	1.5/6	-1.3/5	3.1/13	-1.2/5	1/13	-20.7/-6	-23.2/-2	-6.8/5	

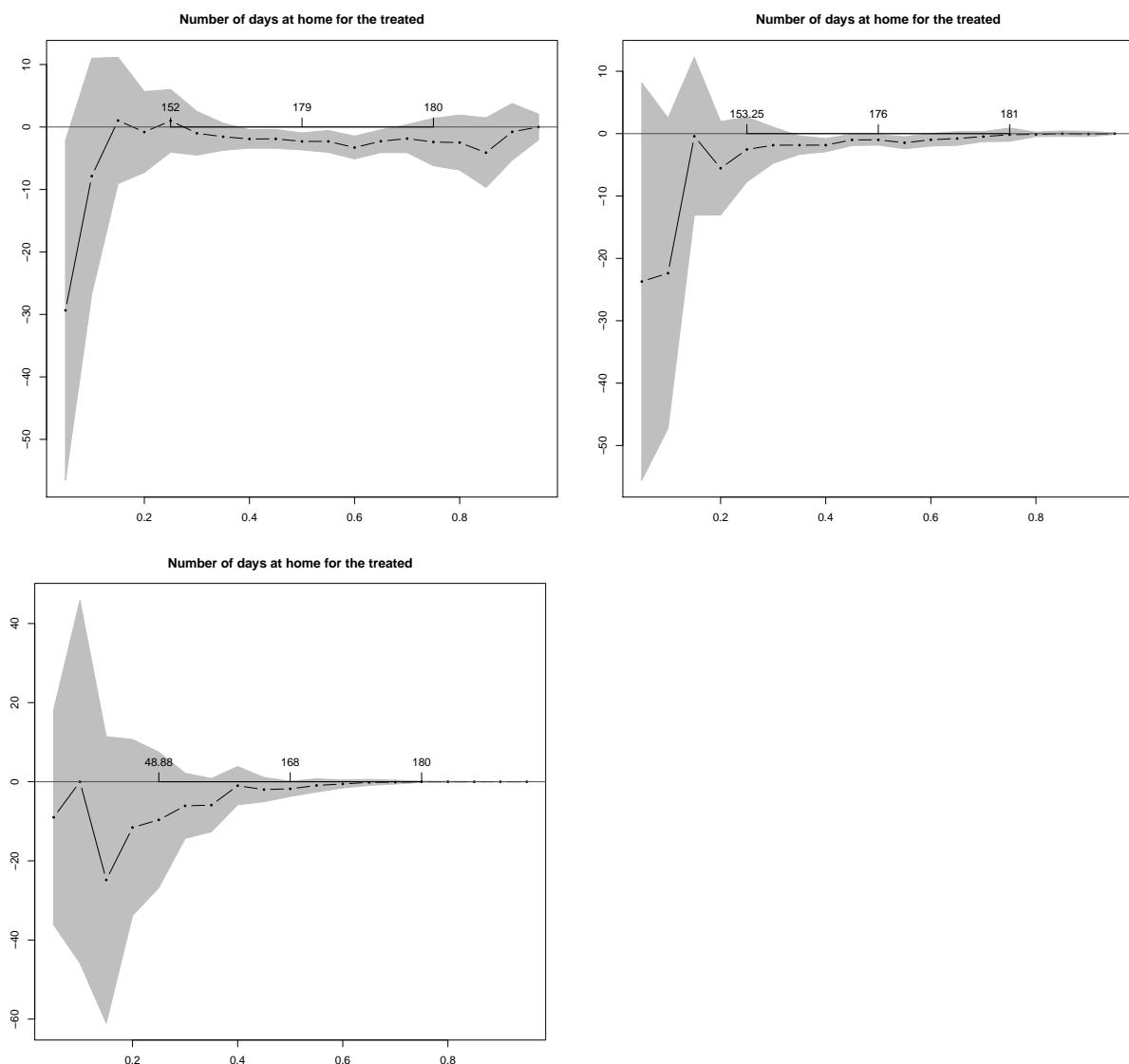


Figure 10.14: Graphs of the differences of days spent at home (for six months and adjusted according to the proxy of the socio economic status and the number of days alive for the six months)

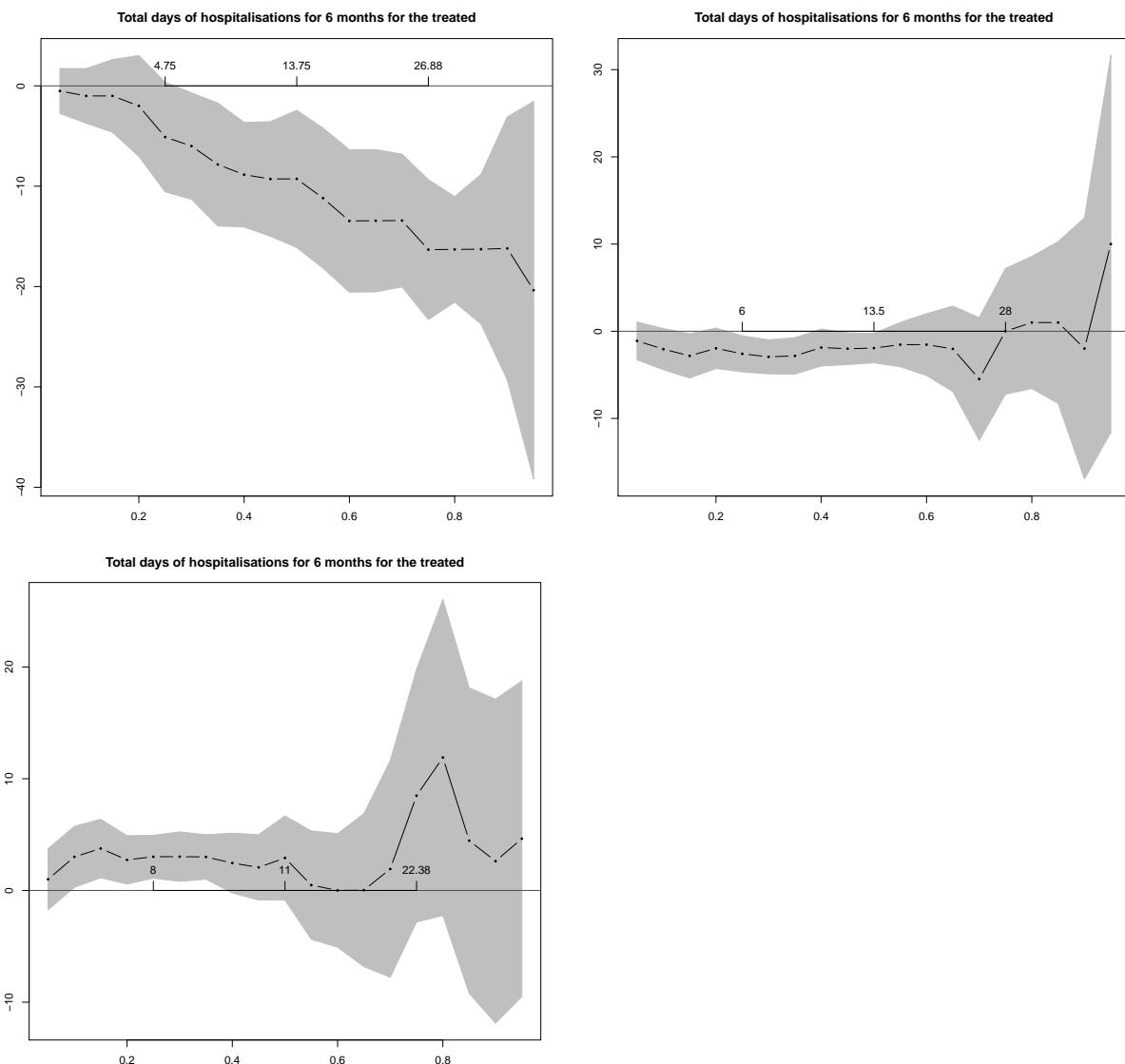


Figure 10.15: Graphs of the differences of days spent in hospital between treated and control (for six months and adjusted according to the proxy of the socio economic status and the number of days alive for the six months)

# Chapter 11

## Psychological screening + intervention with/without CM

### 11.1 Comparison with the BelRAI control group

#### 11.1.1 Description of disability groups

Table 11.1: Proportion above the cut off of BelRAI scales depend on the subgroups of disability for the project PSY Screening + int

	low limit.	func.	func., cogn.
IADL	3.57	96.72	100.00
ADL	1.19	53.65	80.61
CPS	6.55	7.30	95.15
Behav.	12.50	8.76	47.27
DRS	70.24	49.64	49.09
N	168.00	274.00	165.00

### 11.1.2 Description of socio-demographic variables

Table 11.2: Sociodemographic characteristics for the treated and the control group depend on the health profiles

	low limit.		func.		func., cogn.	
	T	C	T	C	T	C
<b>Age</b>						
Median[IQR]	76[71-82]	81[77-87]	81[73-85]	82[77-87]	83[76-87]	82[75-87]
<b>Gender</b>						
% Men	17.26	19.05	23.36	22.26	36.36	31.52
% Women	82.74	80.95	76.64	77.74	63.64	68.48
<b>ICG</b>						
% No ICG	48.81	48.21	13.14	13.14	0	0
% No cohabitant	42.26	42.86	63.5	63.5	47.88	47.88
% Cohabitant	8.93	8.93	23.36	23.36	52.12	52.12
<b>Region</b>						
Bruxelles	0.6	0	0	0	0	0
Flandre	29.76	41.07	62.04	59.12	74.55	67.27
Wallonie	69.64	58.93	37.96	40.88	25.45	32.73
<b>Median income</b>						
Low	44.05	22.02	28.1	29.56	14.55	18.79
Medium	35.12	47.62	21.17	38.69	32.12	43.64
High	20.83	30.36	50.73	31.75	53.33	37.58
<b>N</b>						
Unique value	168	48	274	153	165	69

### 11.1.3 Clinical outcome

Table 11.3: BelRai outcomes

	DRS		Loneliness	
	Bef	Aft	Bef	Aft
<b>low limit.</b>				
% cut off C	26.19	25.6	38.32	38.69
% cut off T	70.24	65.48	68.26	67.26
IC95	6.65[4.29/11.15]	0.97[0.39/1.8]	3.46[2.24/5.72]	1.78[0.7/4.57]
% NA	0	0	0.6	0
<b>func.</b>				
% cut off C	29.2	26.01	25.74	30.04
% cut off T	49.64	45.42	50	45.79
IC95	2.39[1.66/3.39]	1.07[0.67/1.72]	2.89[1.99/4.23]	0.88[0.47/1.44]
% NA	0	0.36	0.73	0.36
<b>func., cogn.</b>				
% cut off C	48.48	44.44	27.56	29.45
% cut off T	49.09	51.85	29.49	28.77
IC95	1.02[0.66/1.58]	1.25[0.54/2.94]	1.1[0.68/1.79]	0.91[0.39/2.15]
% NA	0	1.82	5.45	11.52

Table 11.4: Zarit outcome

		<b>Non Cohab</b>		<b>Cohab</b>	
		Bef	Aft	Bef	Aft
<b>low limit.</b>					
% cut off C	15.56	6.25		10	22.22
% cut off T	53.33	56.25		50	66.67
IC95	6.2[2.33/21.1]	13.12[0/3.80830703079064e+40]		-[-/-]	-[-/-]
% NA	37.06	55.24		33.33	40
<b>func.</b>					
% cut off C	27.91	37		33.96	16.67
% cut off T	53.49	57		59.62	61.7
IC95	2.97[1.83/5.08]	1.01[0.37/2.7]		2.87[1.35/7.01]	6.46[2.1/46.48]
% NA	25.86	42.53		17.97	25.78
<b>func., cogn.</b>					
% cut off C	59.02	61.9		49.38	55.56
% cut off T	55.74	40.48		74.07	71.43
IC95	0.87[0.42/1.78]	0.66[0.13/3.28]		2.93[1.54/5.88]	1.3[0.33/4.38]
% NA	22.78	46.84		5.81	26.74

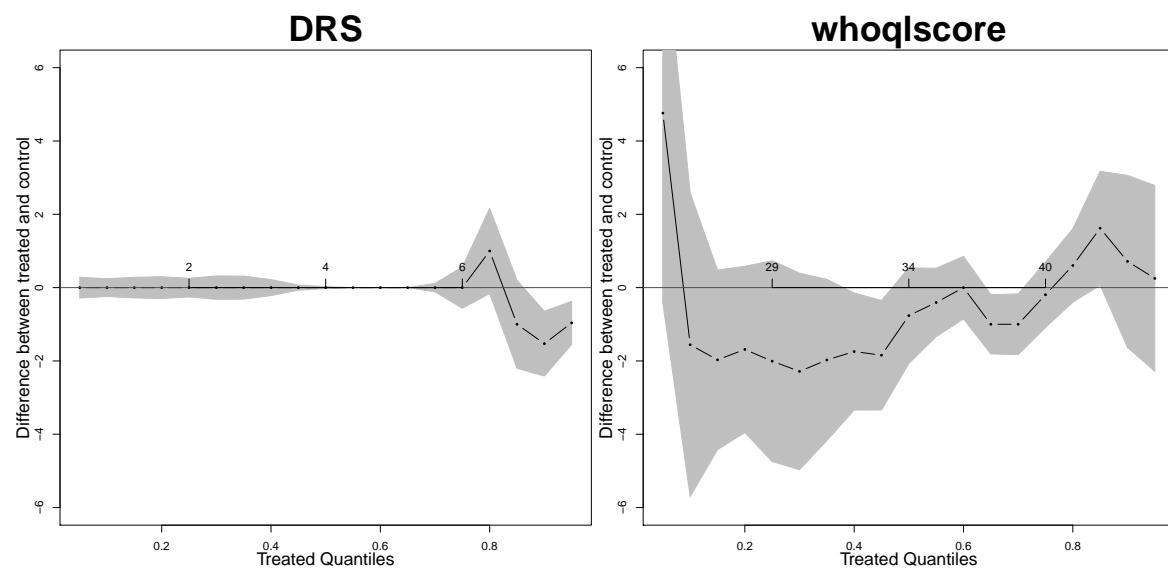


Figure 11.1: Regression quantile of depressive troubles and quality of life (Low limitation)

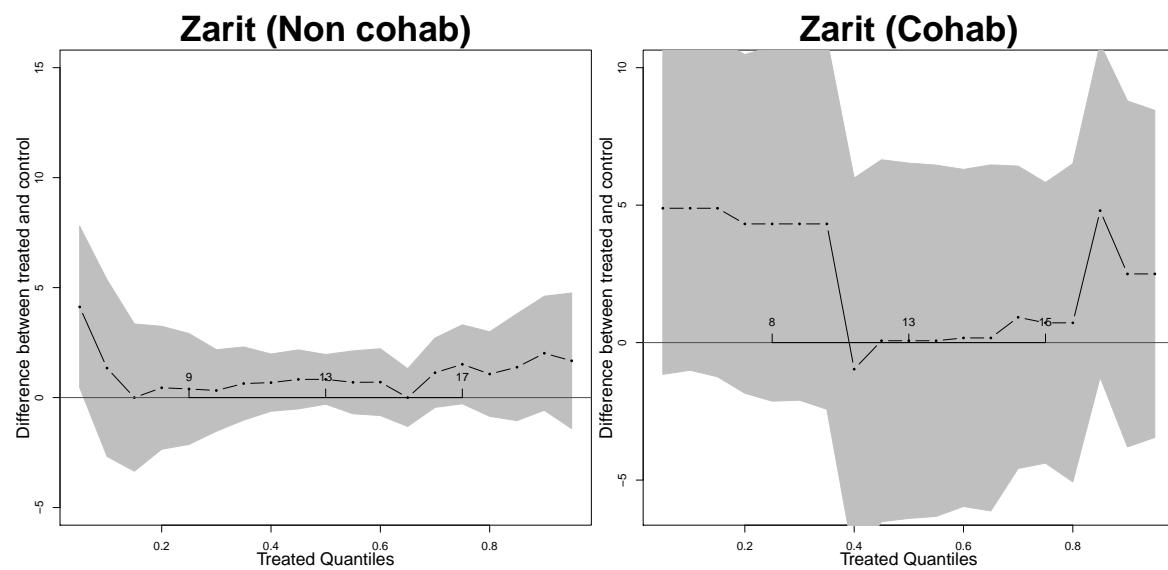


Figure 11.2: Regression quantile of burden clinical outcome (Low limitation)

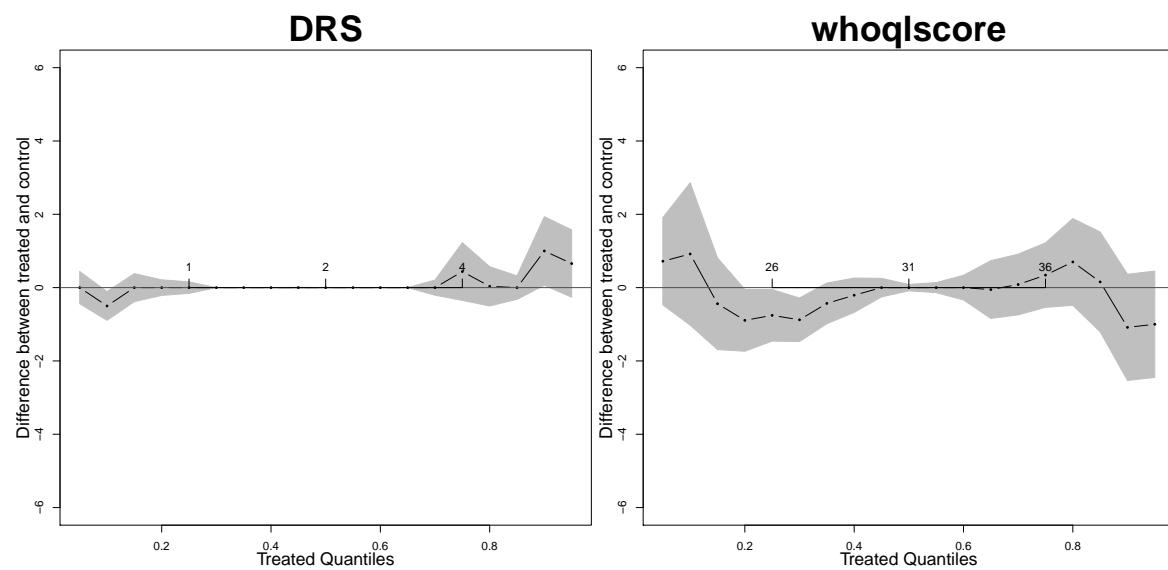


Figure 11.3: Regression quantile of depressive troubles and quality of life(Func.

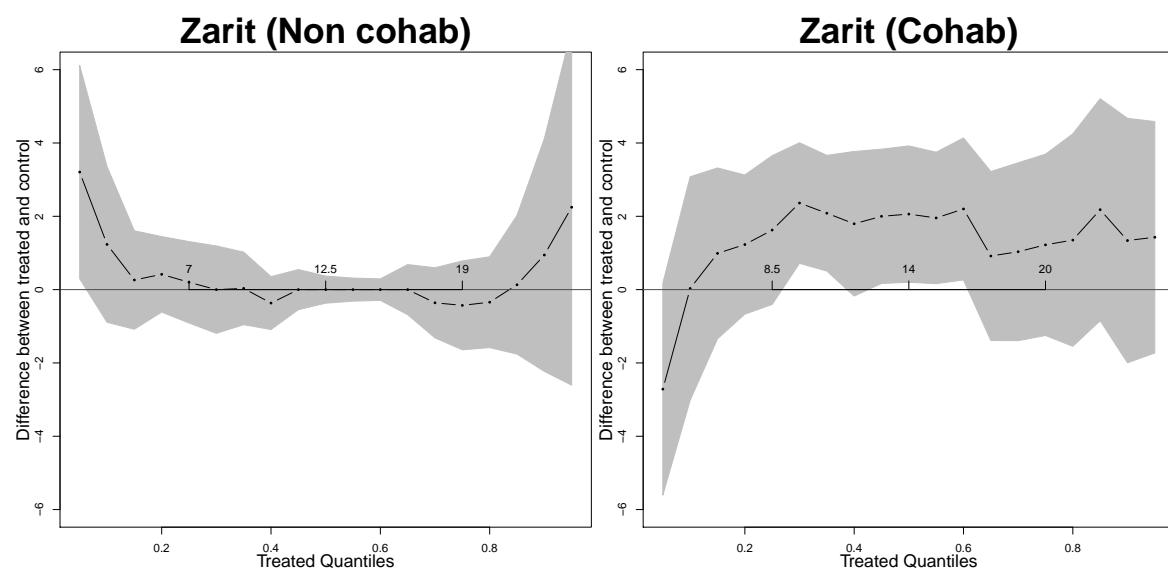


Figure 11.4: Regression quantile of burden clinical outcome (Func.).

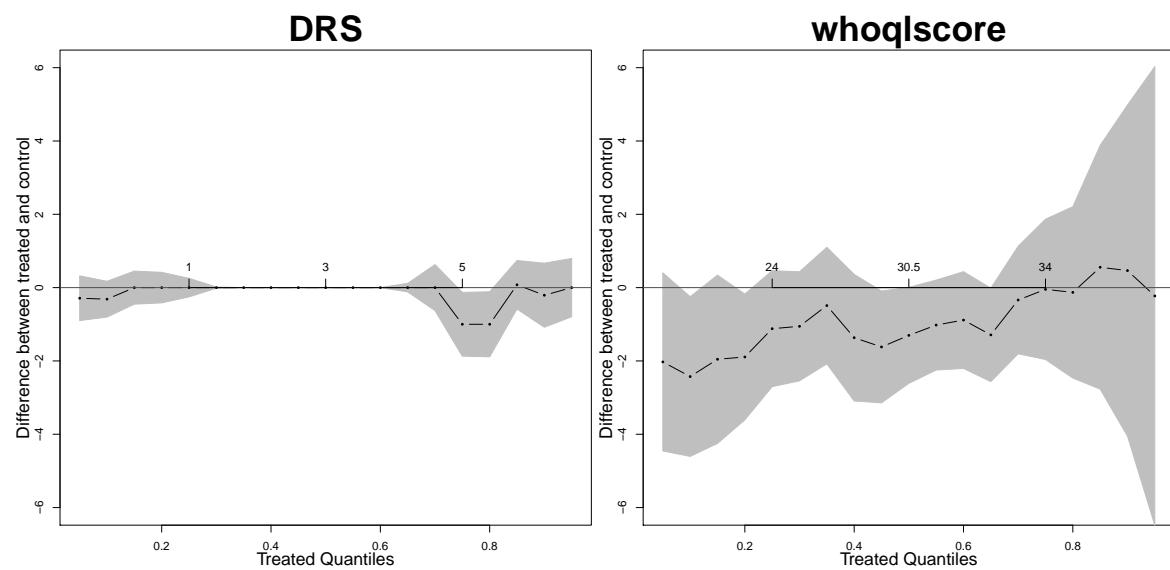


Figure 11.5: Regression quantile of depressive troubles and quality of life (Func., cogn.)

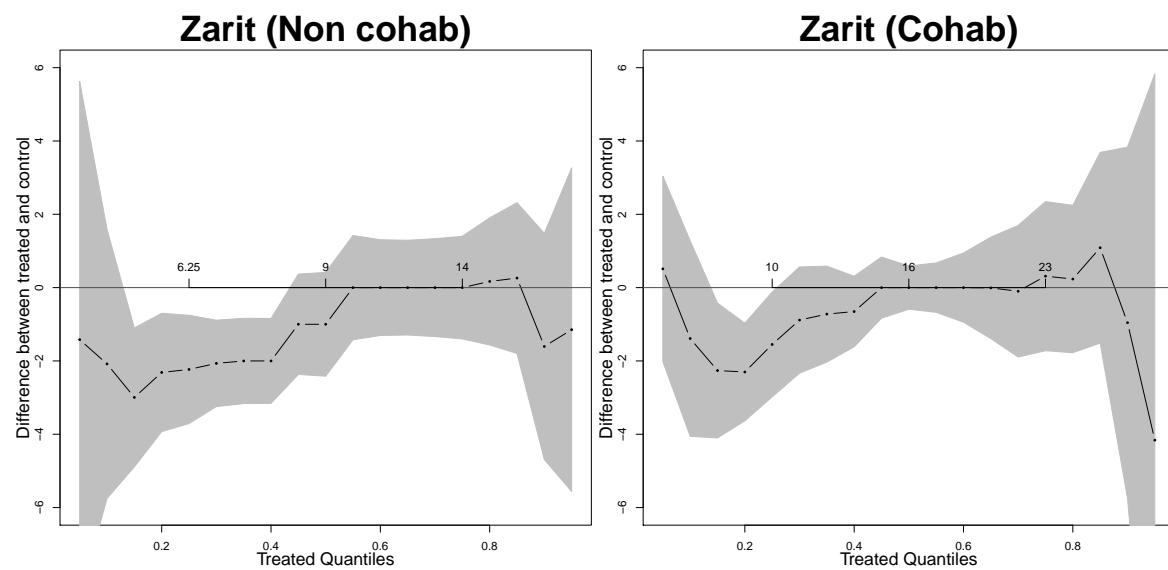


Figure 11.6: Regression quantile of burden clinical outcome (Func., cogn.)

## 11.1.4 Utilisation of services

### Appropriate use of services

Table 11.5: IC differnce of mean between treated and control for the dependency IMA outcomes

	Nursing Care		Short term institu.		Day care center	
	N months		N stays		N days	
	Use	Users	Use	Users	Use	Users
<b>low limit.</b>						
% / Med[IQR] C	82.35	6[6-6]	0	-	2.21	85[85-85]
% / Med[IQR] T	31.62	4[2-6]	0.74	2[2-2]	0	-
OR [IC95]	0.26[0.12/0.54]	-[-/-]			-[-/-]	
<b>func.</b>						
% / Med[IQR] C	94.67	6[6-6]	0	-	4	109[85-109]
% / Med[IQR] T	67.56	4[2-6]	4	2[1-3]	4	47[28-91]
OR [IC95]	0.26[0.09/0.6]	-[-/-]			0.69[0.17/2.12]	
<b>func., cogn.</b>						
% / Med[IQR] C	97.95	6[5-6]	0	-	0.68	81[81-81]
% / Med[IQR] T	78.77	4[3-6]	6.85	2[1-3]	6.85	69[52-83]
OR [IC95]	0.24[0/0.7]	-[-/-]			100063449.27[36505580.24/199172271.37]	

Table 11.6: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated at inclusion)

	low limit.		func.		func., cogn.	
	N.	W. N.	N.	W. N.	N.	W. N.
No lim						
ADL or Incont	8(4.8)	92(55.1)	16.2(2.2)	83.8(11.5)	25(0.6)	75(1.9)
Low lim, ADL & Incont	0(0)	100(0.6)	100(0.7)	0(0)	100(0.6)	0(0)
ADL lim	26.1(3.6)	73.9(10.2)	36.5(13)	63.5(22.6)	50(15.4)	50(15.4)
Incont	6.5(1.2)	93.5(17.4)	10(0.4)	90(3.3)	0(0)	100(3.1)
ADL & Incont lim	40(2.4)	60(3.6)	42.4(13.3)	57.6(18.1)	45.6(22.2)	54.4(26.5)
ADL ? No Incont	0(0)	100(1.2)	30(4.4)	70(10.4)	47.8(6.8)	52.2(7.4)
tot	12(12)	88(88)	34.1(34.1)	65.9(65.9)	45.7(45.7)	54.3(54.3)

Table 11.7: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Control at inclusion)

	low limit.		func.		func., cogn.	
	N.	W. N.	N.	W. N.	N.	W. N.
No lim						
ADL or	18.9(8.4)	81.1(35.9)	30.3(3.7)	69.7(8.5)	37.5(1.9)	62.5(3.1)
Incont						
Low lim,						
ADL &	100(1.2)	0(0)	0(0)	100(1.1)	-(0)	-(0)
Incont						
ADL lim	47.4(10.8)	52.6(12)	74.7(25.2)	25.3(8.5)	70(13)	30(5.6)
Incont	57.1(4.8)	42.9(3.6)	25(0.4)	75(1.1)	-(0)	-(0)
ADL &						
Incont	96.3(15.6)	3.7(0.6)	91.7(28.5)	8.3(2.6)	81.5(59.9)	18.5(13.6)
lim						
ADL ?						
No Incont	16.7(1.2)	83.3(6)	85.5(17.4)	14.5(3)	100(3.1)	0(0)
tot	41.9(41.9)	58.1(58.1)	75.2(75.2)	24.8(24.8)	77.8(77.8)	22.2(22.2)

Table 11.8: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Treated second eval)

	low limit.		func.		func., cogn.	
	N.	W. N.	N.	W. N.	N.	W. N.
No lim						
ADL or Incont	23(13.8)	77(46.1)	32.4(4.4)	67.6(9.3)	0(0)	100(2.5)
Low lim, ADL & Incont	0(0)	100(0.6)	100(0.7)	0(0)	0(0)	100(0.6)
ADL lim	56.5(7.8)	43.5(6)	68.8(24.4)	31.2(11.1)	66(20.4)	34(10.5)
Incont	29(5.4)	71(13.2)	40(1.5)	60(2.2)	20(0.6)	80(2.5)
ADL & Incont lim	60(3.6)	40(2.4)	75.3(23.7)	24.7(7.8)	72.2(35.2)	27.8(13.6)
ADL ? No Incont	50(0.6)	50(0.6)	67.5(10)	32.5(4.8)	56.5(8)	43.5(6.2)
tot	31.1(31.1)	68.9(68.9)	64.8(64.8)	35.2(35.2)	64.2(64.2)	35.8(35.8)

Table 11.9: Proportion of utilisation of nursing care depend on ADL and incontinence limitation (Control second eval)

	low limit.		func.		func., cogn.	
	N.	W. N.	N.	W. N.	N.	W. N.
No lim						
ADL or Incont	24.3(10.8)	75.7(33.5)	69.7(8.5)	30.3(3.7)	100(4.9)	0(0)
Low lim, ADL & Incont	100(1.2)	0(0)	100(1.1)	0(0)	-(0)	-(0)
ADL lim	100(22.8)	0(0)	100(33.7)	0(0)	100(18.5)	0(0)
Incont	100(8.4)	0(0)	100(1.5)	0(0)	-(0)	-(0)
ADL & Incont lim	96.3(15.6)	3.7(0.6)	97.6(30.4)	2.4(0.7)	96.6(71)	3.4(2.5)
ADL ? No Incont	100(7.2)	0(0)	100(20.4)	0(0)	100(3.1)	0(0)
tot	65.9(65.9)	34.1(34.1)	95.6(95.6)	4.4(4.4)	97.5(97.5)	2.5(2.5)

## Inappropriate use of services

Table 11.10: IC difference of mean between treated and control for the low value IMA outcomes

	Emergency		GP out-of hours		Hospitalisation	
	N visits		N visits		N visits	
	Use	Users	Use	Users	Use	Users
<b>low limit.</b>						
% / Med[IQR] C	29.41	2[2-4]	2.21	2[2-6]	29.41	1[1-1]
% / Med[IQR] T	18.38	2[2-2]	9.56	4[2-4]	23.53	1[1-1]
OR [IC95]	0.52[0.28/0.92]		7.61[2.67/303187224.11]		0.65[0.35/1.16]	
<b>func.</b>						
% / Med[IQR] C	17.33	2[2-4]	8	2[2-2]	17.33	1[1-2]
% / Med[IQR] T	17.78	2[2-4]	12.44	2[2-2]	24	1[1-2]
OR [IC95]	1.09[0.65/1.88]		1.58[0.84/3.2]		1.31[0.82/2.18]	
<b>func., cogn.</b>						
% / Med[IQR] C	25.34	2[2-2]	11.64	2[2-2]	23.97	1[1-2]
% / Med[IQR] T	26.03	2[2-2]	19.18	2[2-4]	30.14	1[1-2]
OR [IC95]	1.15[0.67/2]		1.93[0.94/4.16]		1.5[0.88/2.69]	

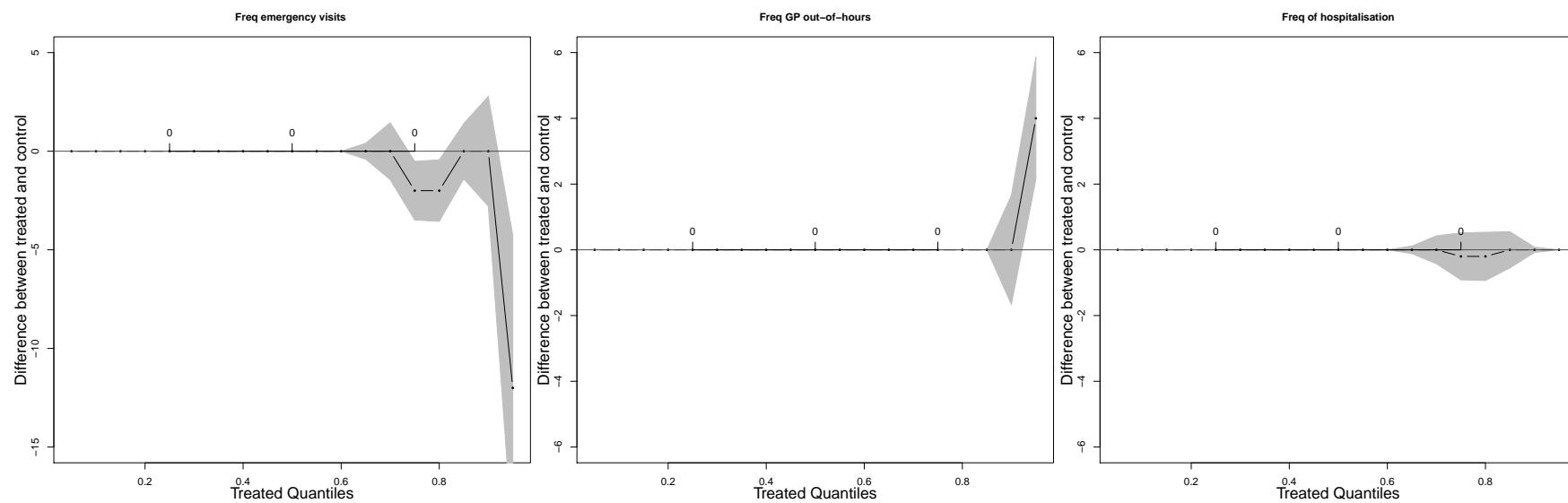


Figure 11.7: Regression quantile of inappropriate use of services (Low limitation)

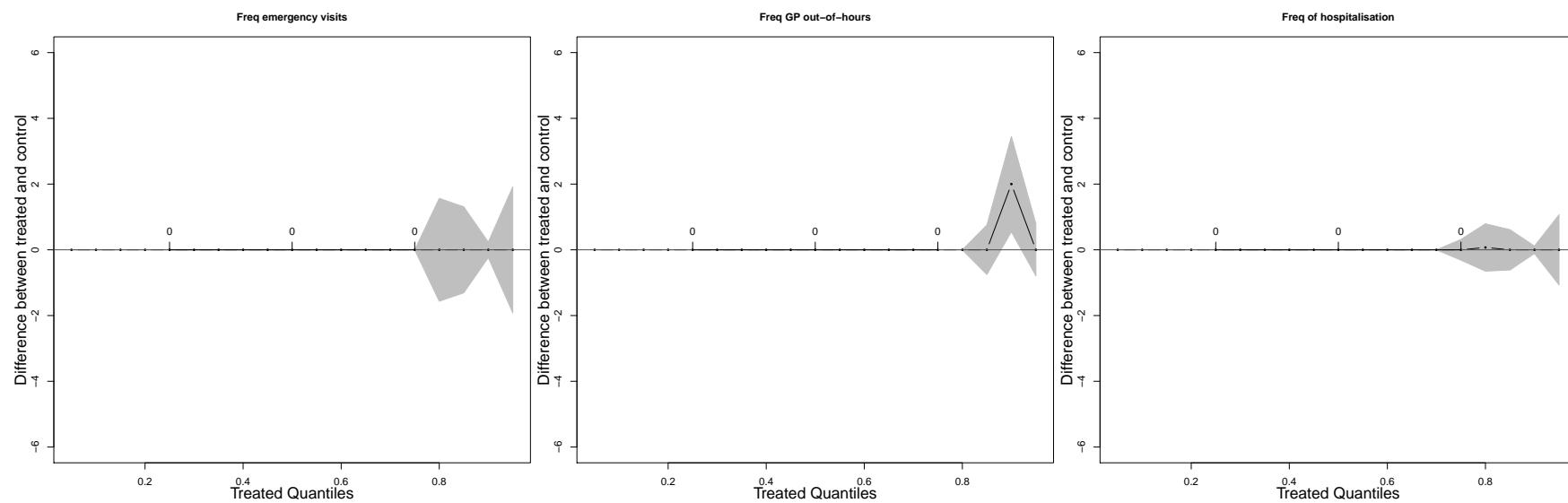


Figure 11.8: Regression quantile of inappropriate use of services (Func.)

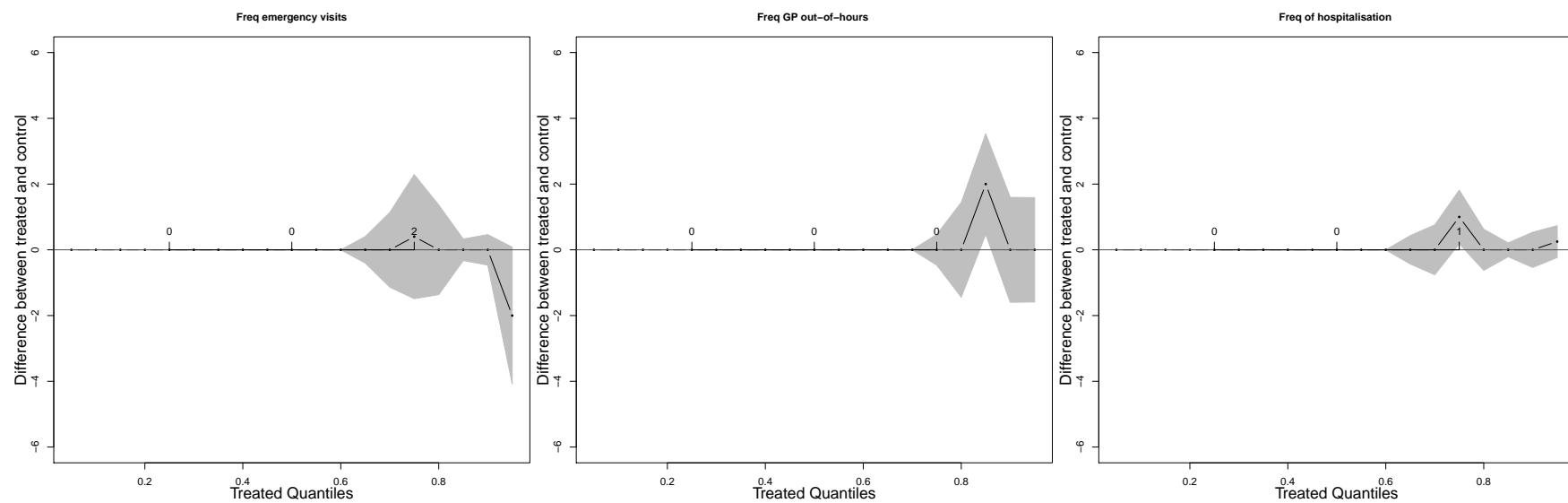


Figure 11.9: Regression quantile of inappropriate use of services (Func., cogn.)

## Definitive institutionalisation and death

Table 11.11: IC of ratio of incidence rate between treated and control for the death and the definitive institutionalisation

	Definitive institu.	Death
<b>low</b>		
<b>limit.</b>		
IR T	0.0037	0.0037
IR C	0.005	0
IC95	0.17/3.33	NaN/Inf
<b>func.</b>		
IR T	0.0054	0.0061
IR C	0.0015	0.0045
IC95	0.74/17.16	0.46/3.86
<b>func.,</b>		
<b>cogn.</b>		
IR T	0.0259	0.0167
IR C	0.0186	0.0119
IC95	0.71/2.71	0.62/3.16

### 11.1.5 Health care costs linked to disability for the NIHDI

Table 11.12: Cost of health care services and technical equipment

	Interv.		Nurs.		Phys.		Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>														
Mean T	0	229.6	42.4	180.8	25	70.7	4.1	7	0.4	3.1	3.2	0		
Mean C	0	0	288.4	555.8	39.3	61.4	1.2	1.6	16.9	8.9	8.1	0.1		
IC95	0/0	217.1/239	-306.6/-182	-520.4/-241	-32.1/4	-22/42	-2/11	-1.2/13	-24.1/-9	-12.5/0	-16.2/5	-0.4/0		
<b>Func.</b>														
Mean T	0	241.5	167.9	714.2	43.5	113.9	4.4	13.8	14.4	45.1	4.8	8.2		
Mean C	0	0	586.5	1137.8	75	122.2	6.8	52	46.3	15.6	2	4.1		
IC95	0/0	231.2/251	-506.8/-327	-560.3/-276	-56.6/-8	-40.3/23	-9.5/3	-101/6	-43.9/-19	17/43	-3.9/10	-5.7/14		
<b>Func. cogn.</b>														
Mean T	0	255.7	262.3	1154.7	45.4	172.5	9.9	85.5	19.8	71.3	0	4.6		
Mean C	0	0	852.3	1714.8	77.1	167.4	0.7	20.7	69.2	29.6	0	4		
IC95	0/0	239.5/269	-755/-431	-807.1/-321	-62.3/-2	-50.2/58	0.7/23	13.7/132	-63.9/-34	17.9/70	0/0	-8.3/9		

Table 11.13: Cost of other health care services

	<b>Daycare</b>		<b>Temp. NH</b>		<b>Def. NH</b>		<b>GP</b>		<b>Spec.</b>		<b>Hosp.</b>	
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Bef	Aft	Bef	Aft	
<b>Low limit.</b>												
Mean T	0	0.8	6	8.5	10.4	21.9	25.9	3	3	885	811.5	
Mean C	0	0	10.6	3.3	19.2	52.3	74	1.5	1.5	295.6	531.5	
IC95	0/0	-34.4/0	-19.2/10	-1.3/16	-58.3/14	-57.5/-28	-47.1/-9	-2.8/2	0.1/6	-137.5/576	-394.6/212	
<b>Func.</b>												
Mean T	2.8	6.3	16.1	46.9	105.1	33	38	1.1	1.1	2054.3	1949.2	
Mean C	0	16.4	7.9	7	23.6	51.5	84.3	2	4.7	218.2	700	
IC95	-1/20	-31.8/17	6/44	-4.8/36	-3.9/45	-47.7/-30	-31.9/28	-1.8/2	-0.7/6	428.1/907	-40/534	
<b>Func. cogn.</b>												
Mean T	21.2	28.2	34	46.9	107.3	29.2	46.2	3.3	3	1475.9	1740.6	
Mean C	15.6	12.3	7	18.9	57.1	54.7	97.2	4.9	5.1	638.3	773.7	
IC95	-6.8/30	10.3/69	13.3/52	-0.7/48	-2.9/130	-37.5/-18	-35/-3	-4.5/0	-2.3/4	193.3/968	-437.6/399	

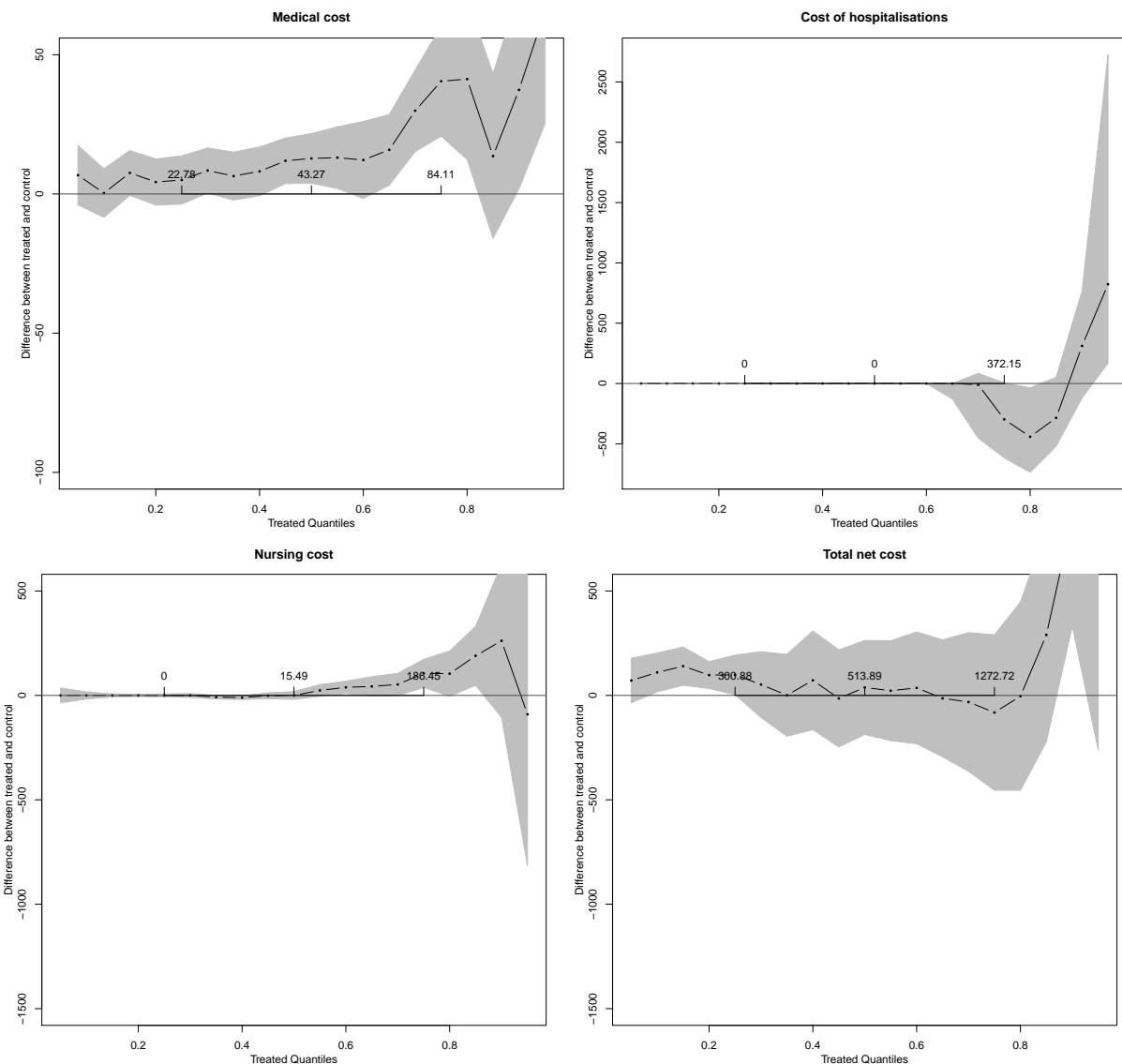


Figure 11.10: Graphs of the differences of costs between treated and control, **for the NIHDI, for the group of low limitations, for six months**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive

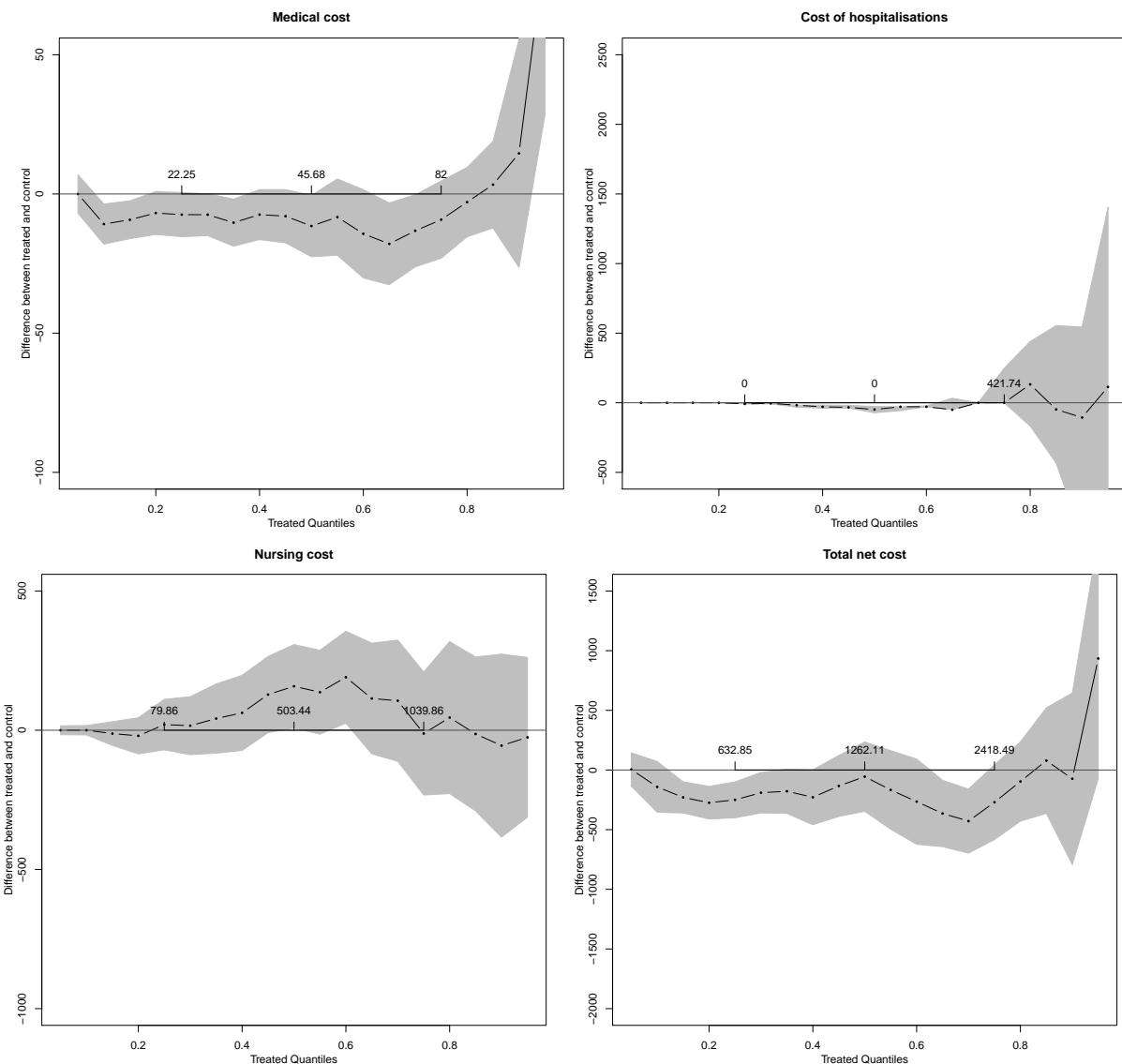


Figure 11.11: Graphs of the differences of costs between treated and control, **for the NHDI, for the group of functional limitations, for six months**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

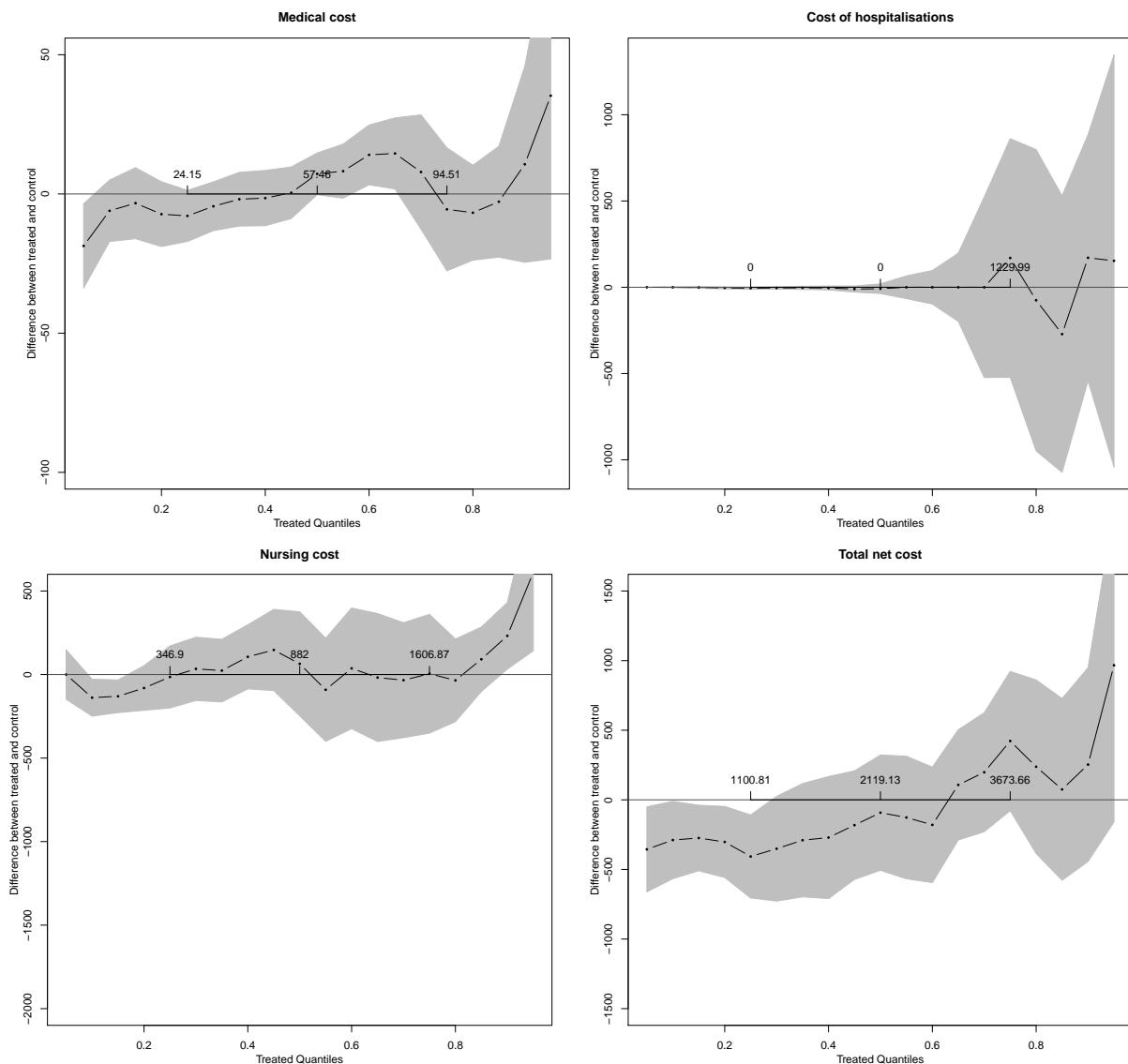


Figure 11.12: Graphs of the differences of costs between treated and control, **for the NIHDI, for the group of functional and cognitive impairment, for six months**, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

### 11.1.6 Health care costs for the patients

Table 11.14: Average costs of health care services and technical equipment for six months (per month, per patient)

	Nurs.		Phys. Speech		Mobility equip.		Other equip.		Aud.Opt.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>										
Mean T	0.3	1.3	6.6	14.1	0	0.3	25.7	25.7	5.1	0
Mean C	2.5	4.2	8.5	11.4	0	0.2	28.7	28.7	8.7	0.1
IC95	-4.7/-0.2	-7.6/0.7	-6.6/2.9	-3.7/9.8	0/0	-0.4/1	-13.2/7.4	-12.5/6.6	-17.2/11.6	-0.2/0
<b>Func.</b>										
Mean T	0.1	1.4	9.2	20.9	0	0.2	36	36.1	0.7	7.7
Mean C	4.8	9.1	15.6	28.3	0	0	36.9	36.9	0.1	1
IC95	-7.9/-2.2	-13/-2.8	-11.8/-0.7	-16.7/1	-0.1/0	-0.1/0.5	-9.8/7.6	-10.2/8	-0.1/1.5	-1.6/18.5
<b>Func. cogn.</b>										
Mean T	0	0.2	8.6	24.9	0	0	62.3	62.3	0	0.3
Mean C	3.4	19.6	13.4	29.9	0	0	68.5	68.7	0	1.3
IC95	-6.8/-0.9	-28.5/-11	-10.8/1.2	-16/5.4	-0.1/0	0/0	-16.4/5.5	-17.3/3.9	0/0	-3.8/0.8

Table 11.15: Average cost of other health care services for six months (per month, per patient)

	Daycare		Temp. NH		Def. NH		GP		Spec.		Hosp.	
	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>												
Mean T	0	0	5.4	6	13.5	3.9	8.5	0.5	1.1	4.1	2.9	
Mean C	0	4.7	8.7	0.8	32.6	7.5	9.6	0.3	0.5	25.7	35.5	
IC95	0/0	-9.4/0	-16.5/8.7	-0.8/14.5	-56.8/15.2	-6/-1.1	-3.9/1.7	-0.3/0.8	0/1.3	-35.2/-10.4	-59.2/-12.6	
<b>Func.</b>												
Mean T	3.2	6.1	29.7	28.2	23.1	4.1	11.5	0.7	1	20.6	16	
Mean C	0.6	8.5	9.6	12.7	7.6	9.1	13.6	0.5	0.8	16.2	36.5	
IC95	-0.5/6.4	-9.8/5.3	4.7/35.5	-1.6/34.1	-5.6/37.6	-7.1/-3.1	-5.9/1.9	-0.3/0.8	-0.2/0.7	-7/16.3	-44.5/-0.1	
<b>Func. cogn.</b>												
Mean T	4.8	12.7	29.1	43.9	93.3	3.6	9	0.5	0.9	14	21.9	
Mean C	1.7	1.4	3.5	26.1	48	7.2	11.5	0.8	1	31	37.4	
IC95	-2.2/8.4	2.7/21.6	10.7/42.5	-5.1/45.9	-6.8/96.8	-6.7/-1	-6.2/1	-0.8/0.2	-0.8/0.7	-35.5/5.3	-41.4/12.5	

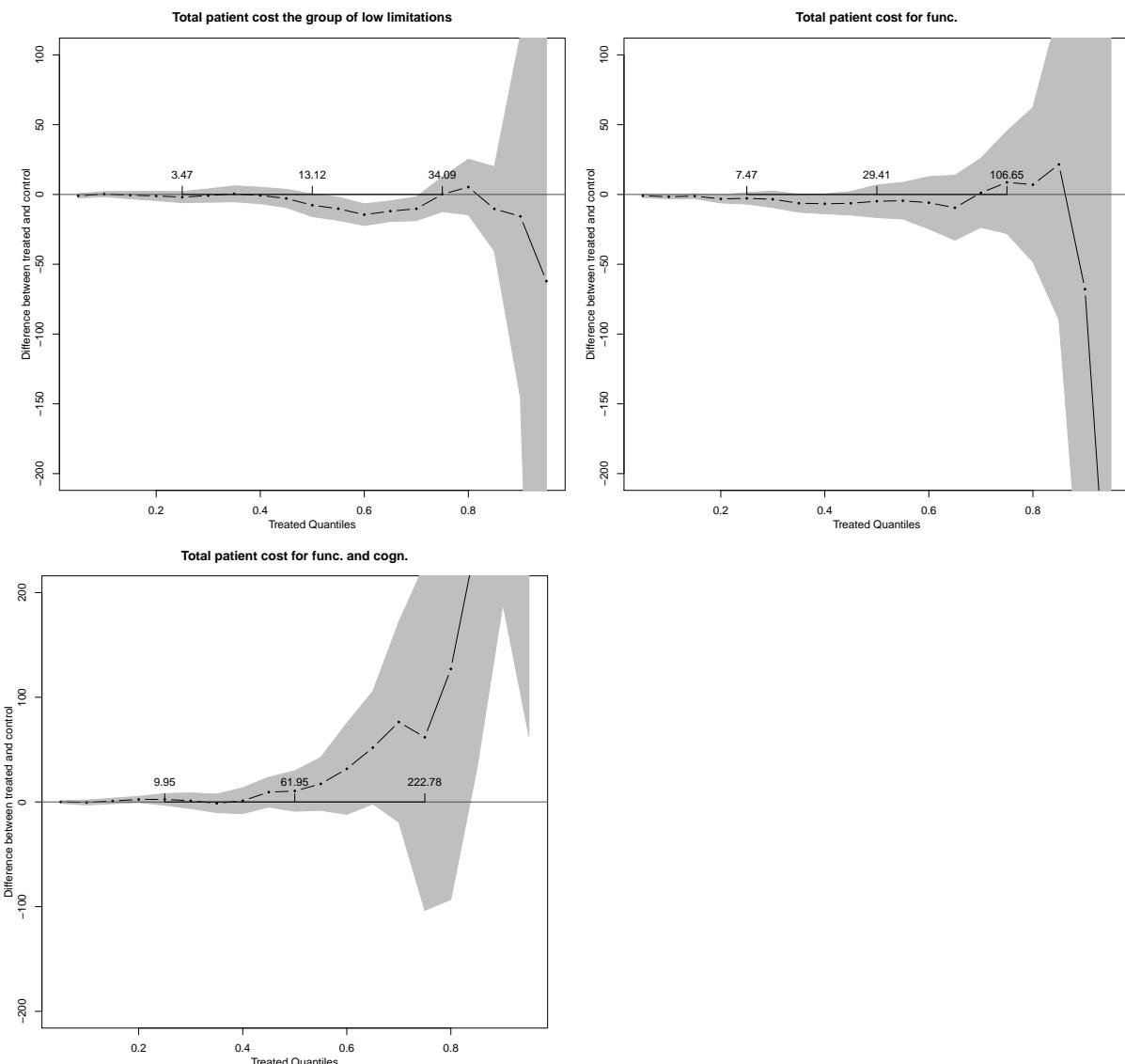


Figure 11.13: Graphs of the differences of the total cost for patients between treated and control, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

### 11.1.7 Adjusted cost differences for the stakeholders

Table 11.16: Average cost differences between treated and control group per month (adjusted according to the level of cost before intervention, socio economic proxy and deaths)

	NIHDI Home		NIHDI Home + hosp. + inter		All NIHDI + patients + regions	
	Diff mean adj.	IC95	Diff mean adj.	IC95	Diff mean adj.	IC95
Low limit.	87	-41.4/243.4	70	-194.1/382.6	-2	-255/351.8
Func.	-19	-186.5/188.4	-154	-396.9/105.4	-209	-484/140.4
Func. cogn.	47	-196.4/361.5	-109	-468.9/332.7	148	-242.7/608.1

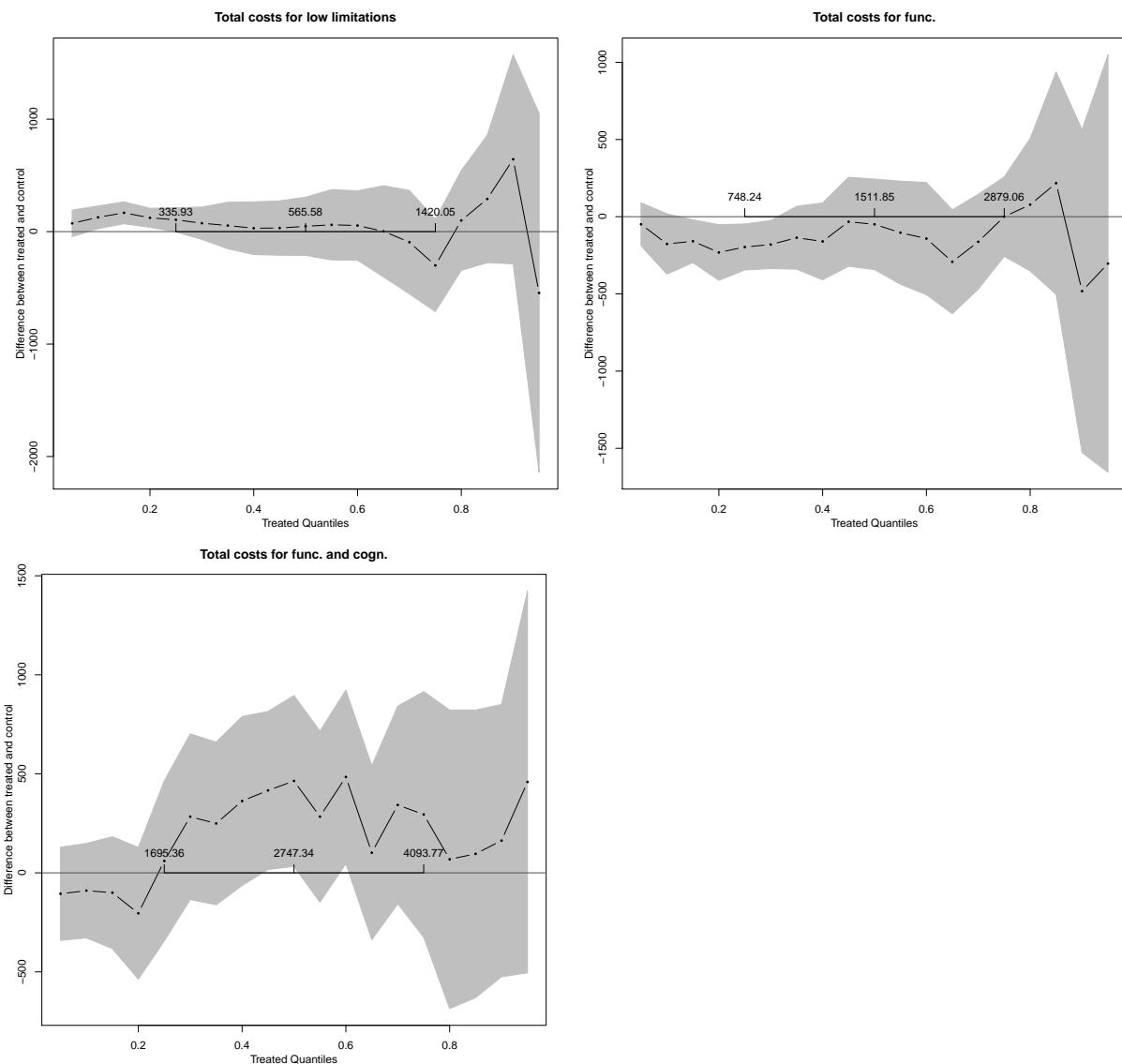


Figure 11.14: Graphs of the differences of the total cost between treated and control for all stakeholders, adjusted according to the proxy of the socio economic status, the average cost before intervention and the number of days alive (per month, per patient)

### 11.1.8 Cost of social care services and informal care

Table 11.17: Average costs per month (before evaluations)

	Fam. care		Household aid		Meals-on-Wheels	
	Bef	Aft	Bef	Aft	Bef	Aft
<b>Low limit.</b>						
Mean T	776.5	617.2	319.8	401.1	10.3	11
IC95 T	352/1199	270/1119	272/370	348/454	5/16	5/18
Missing T (%)	58.1	62.8	13.1	28	12.5	26.8
Mean C	603.9	379.8	320.1	355.9	12.5	9.3
IC95 C	282/1024	280/466	277/365	314/396	7/20	4/15
Missing C (%)	54.6	40.7	4.8	12.5	4.8	12.5
<b>Func.</b>						
Mean T	890.1	843.4	671.5	689.9	20	16.2
IC95 T	648/1150	620/1124	593/744	613/770	13/27	10/22
Missing T (%)	52.9	54.6	16.4	24.1	16.4	23.7
Mean C	846.6	814.7	464.4	471.3	45.5	38.6
IC95 C	633/1124	561/1046	409/520	412/526	36/54	30/47
Missing C (%)	52.9	49.2	2.5	12.4	2.5	12.4
<b>Func. cogn.</b>						
Mean T	1674.7	1355.9	718.3	764.8	9.3	7
IC95 T	1250/2097	936/1826	600/843	648/886	3/17	2/13
Missing T (%)	56.4	63	16.4	29.1	16.4	29.1
Mean C	2316.8	2075.9	564.7	573.7	23.2	23.4
IC95 C	1850/2833	1660/2551	462/676	485/669	15/33	14/32
Missing C (%)	47.3	43.6	1.2	10.9	1.2	10.9

### 11.1.9 Number of days at home and in residential facilities for six months

Table 11.18: Average number of days for 6 months

	Temp. NH		Hosp.		Def. NH		Days home		Days alive
	Bef	Aft	Bef	Aft	Aft	Bef	Aft	Aft	Aft
<b>Low limit.</b>									
Mean T	0.7	0.8	7.2	6.1	1.7	163.1	161.3	180.2	
Mean C	1.1	0.1	5.2	5.4	4.2	157.1	155.2	182.4	
Diff. TC. IC95	-2/1	-0.1/2	-1.5/6	-2.6/4	-7.1/2	-4.8/17	-6.6/19	-3.9/-1	
<b>Func.</b>									
Mean T	3.8	3.3	13.1	7	3	156.1	155.5	176.7	
Mean C	1.2	1.6	3.9	4	1	160.3	157.1	178.8	
Diff. TC. IC95	0.6/5	-0.4/4	6/13	0.5/6	-0.8/5	-12.8/5	-10.6/8	-6.1/2	
<b>Func. cogn.</b>									
Mean T	3.8	4.9	14	8.6	12.1	158.9	144.8	173.8	
Mean C	0.5	3.2	6	6.8	5.3	172.1	157.2	174.6	
Diff. TC. IC95	1.3/6	-1.4/5	2.8/13	-1.4/5	0.1/13	-21.3/-6	-22.3/-2	-6.8/5	

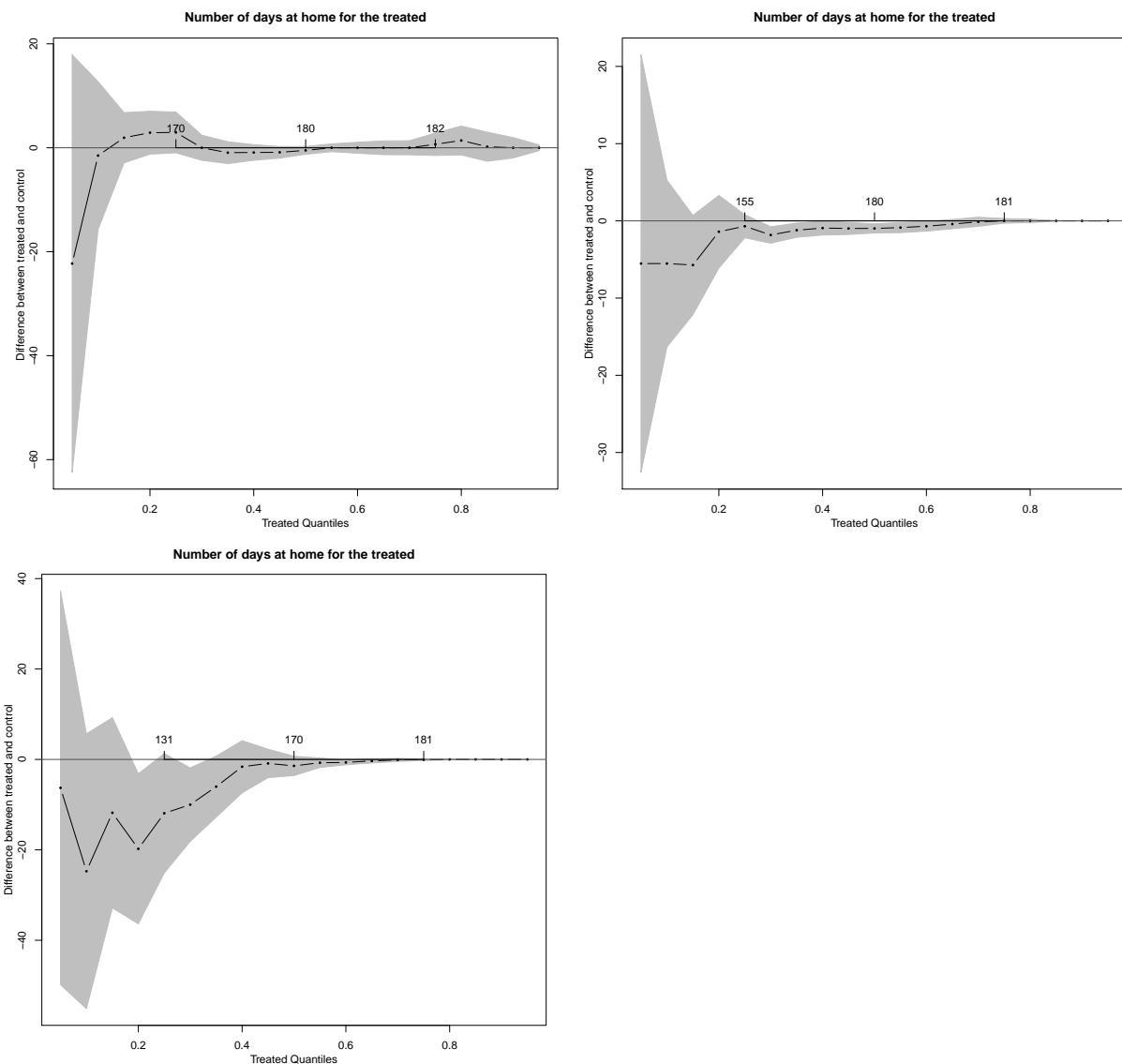


Figure 11.15: Graphs of the differences of days spent at home between treated and control, for six months and adjusted according to the proxy of the socio economic status and the number of days alive for the six months (per month, per patient)

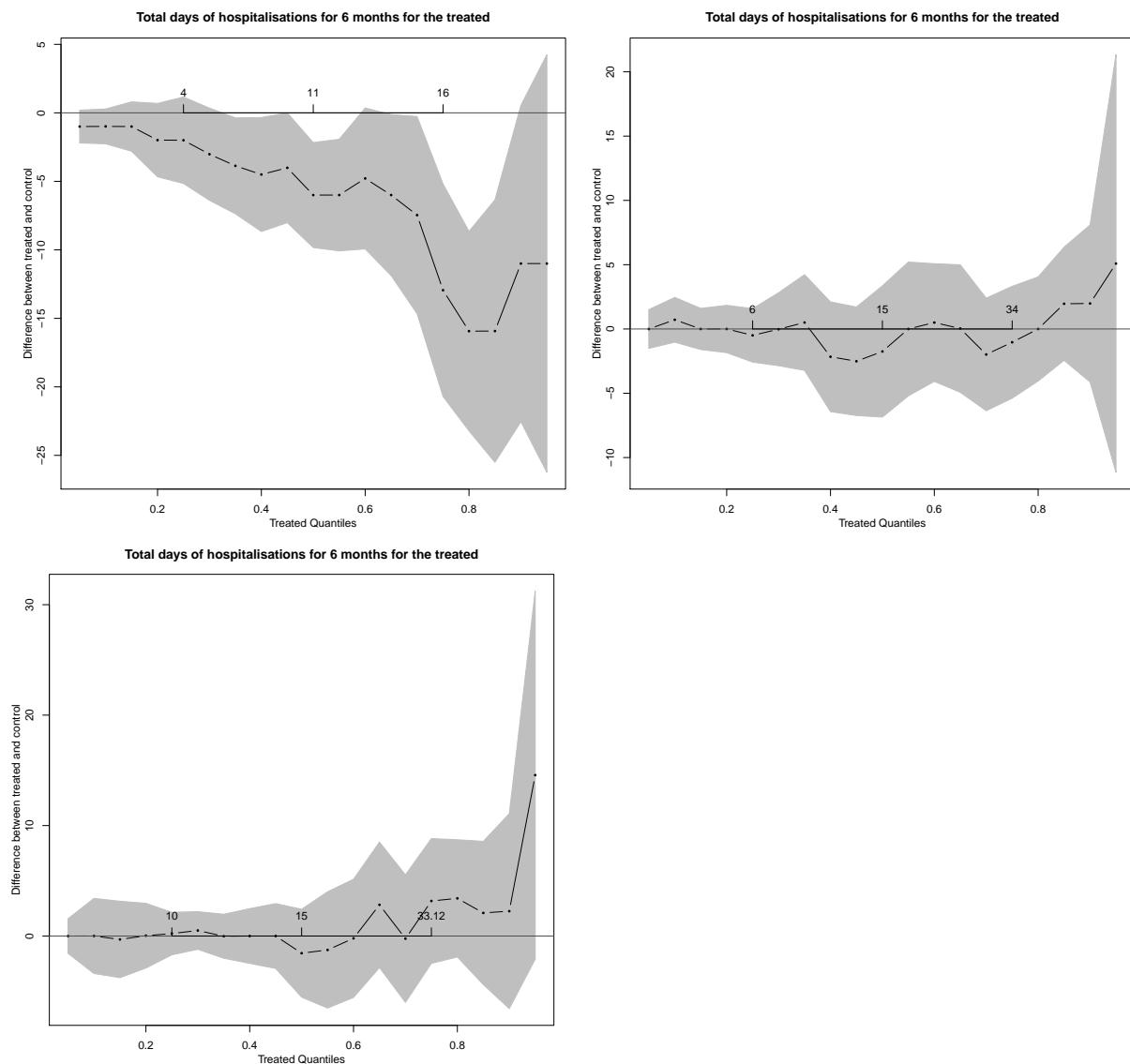


Figure 11.16: Graphs of the differences of days spent in hospital between treated and control for six months and adjusted according to the proxy of the socio economic status and the number of days alive for the six months (per month, per patient)