

Online Data Supplement 2: Result of multivariate analysis for BOS, STS, CS

Title: PERSONALITY, Ethical, and PROFESSIONAL quality of life in Pediatric/Adult Intensive Nurses study: PERSEPRO PAIN study

Running title: PERSEPRO PAIN study

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Running title: PERSE PRO PAIN study

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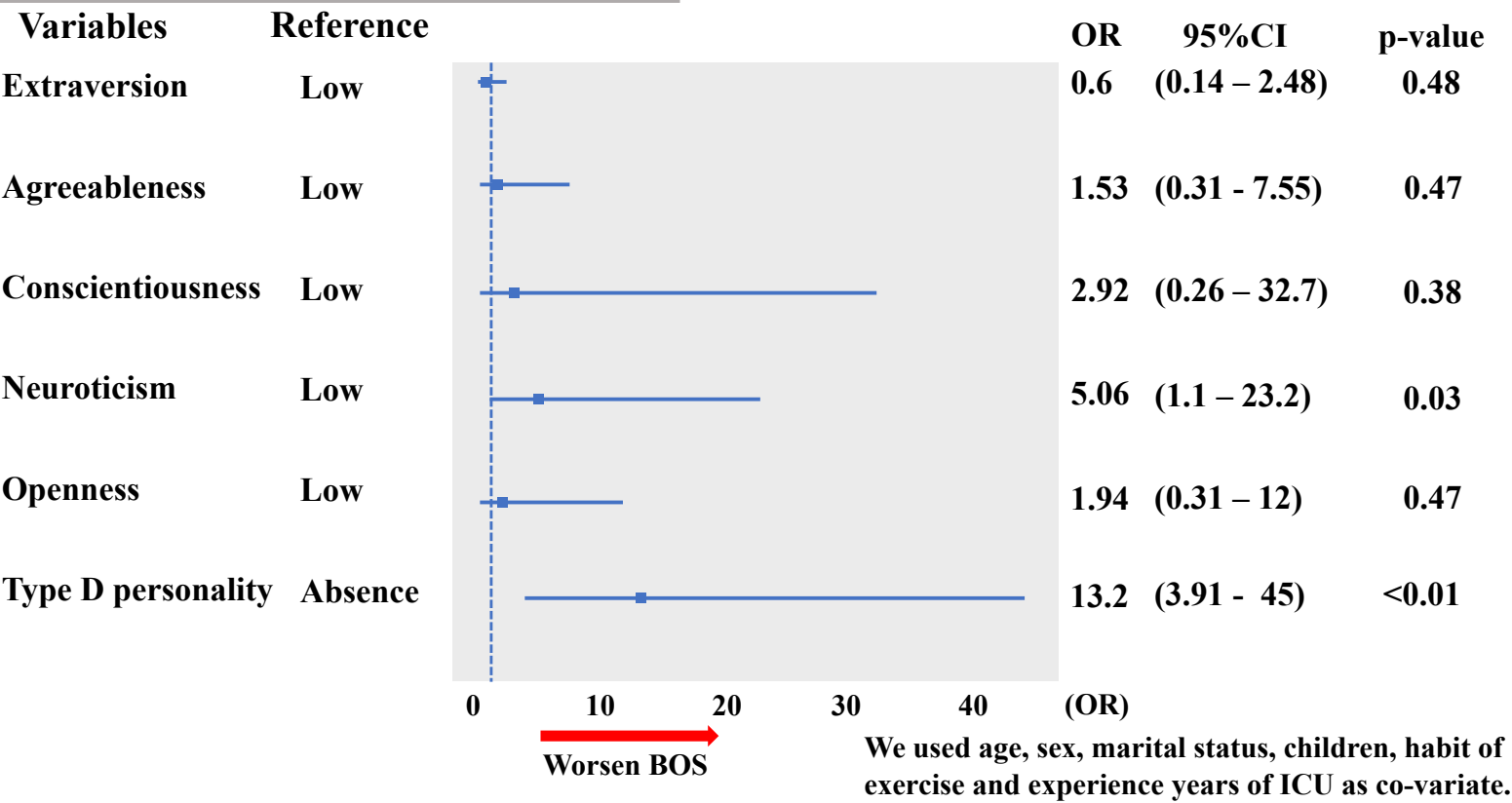
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Multiple regression model of personality trait for BOS



Extraversion for BOS in multiple regression

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.83
Sex	1.65	(0.4-6.71)	0.48
Marital status	0.53	(0.12-2.3)	0.4
Children	1.76	(0.63-4.88)	0.27
Exercise	0.03	(0.009-0.15)	<0.01
Years of ICU experience	GAM modeling: negative association		0.35
Extraversion	0.6	(0.14-2.48)	0.48

Agreeableness for BOS in multiple regression

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.7
Sex	1.48	(0.35-6.17)	0.54
Marital status	0.55	(0.12-2.36)	0.41
Children	1.72	(0.62-4.78)	0.3
Exercise	0.03	(0.009-0.14)	<0.01
Years of ICU experience	GAM modeling: negative association		0.44
Agreeableness	1.53	(0.31-7.55)	0.47

Conscientiousness for BOS in multiple regression

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.61
Sex	1.57	(0.38-6.38)	0.52
Marital status	0.55	(0.13-2.56)	0.48
Children	1.71	(0.61-4.72)	0.3
Exercise	0.03	(0.009-0.14)	<0.01
Years of ICU experience	GAM modeling: negative association		0.46
conscientiousness	2.92	(0.26-32.7)	0.38

Neuroticism for BOS in multiple regression

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.61
Sex	1.66	(0.41-6.71)	0.47
Marital status	0.58	(0.13-2.47)	0.46
Children	1.82	(0.66-5.02)	0.24
Exercise	0.04	(0.01-0.18)	<0.01
Years of ICU experience	GAM modeling: negative association		0.36
Neuroticism	5.06	(1.1-23.2)	0.03

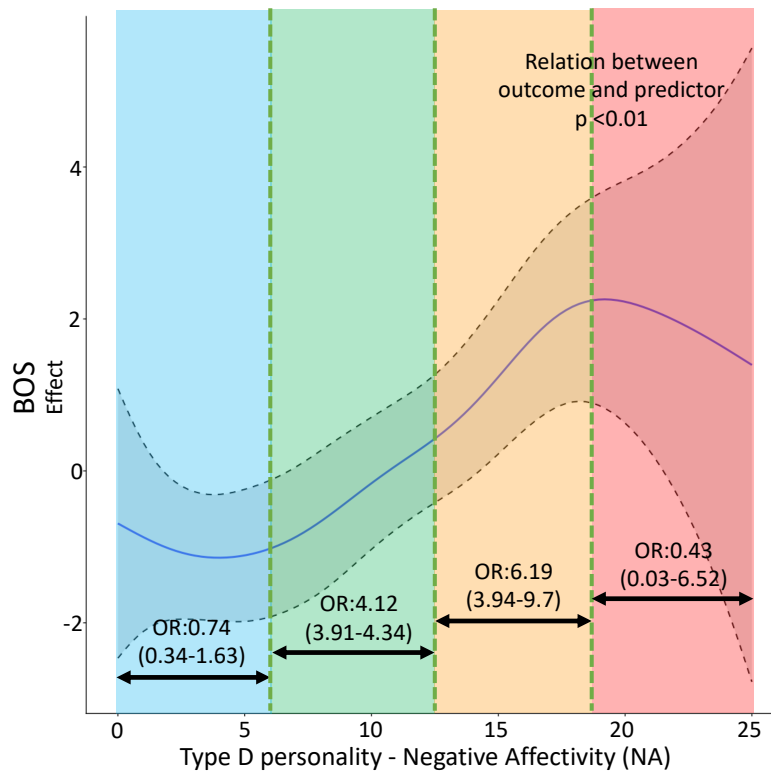
Openness for BOS in multiple regression

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.66
Sex	1.53	(0.37-6.25)	0.54
Marital status	0.54	(0.12-2.33)	0.41
Children	1.7	(0.61-4.7)	0.3
Exercise	0.03	(0.01-0.14)	<0.01
Years of ICU experience	GAM modeling: negative association		0.49
Openness	1.94	(0.31-12)	0.47

Type D personality for BOS in multiple regression

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.49
Sex	1.77	(0.45-6.94)	0.4
Marital status	0.58	(0.14-2.42)	0.46
Children	1.7	(0.63-4.59)	0.29
Exercise	0.03	(0.009-0.14)	<0.01
Years of ICU experience	GAM modeling: negative association		0.39
Type D personality	13.2	(3.91-45)	<0.01

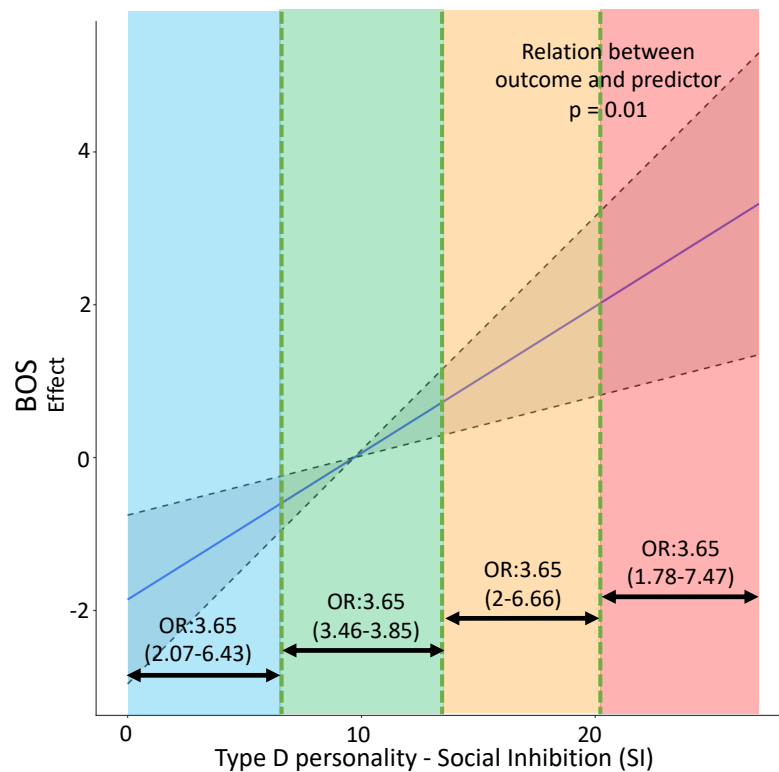
Type D personality - Negative Affectivity (NA)



Type D personality - Negative Affectivity (NA) for BOS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.63
Sex	1.71	(0.43-6.81)	0.44
Marital status	0.8	(0.18-3.39)	0.76
Children	1.37	(0.49-3.8)	0.54
Exercise	0.03	(0.009-0.13)	<0.01
Years of ICU experience	GAM modeling: negative association		0.38
Type D personality- Negative Affectivity (NA)	GAM modeling: positive association		<0.01
	0 th -25 th	0.74 (0.34-1.63)	
	25 th -50 th	4.12 (3.91-4.34)	
	50 th -75 th	6.19 (3.94-9.7)	
	75 th -100 th	0.43 (0.03-6.52)	

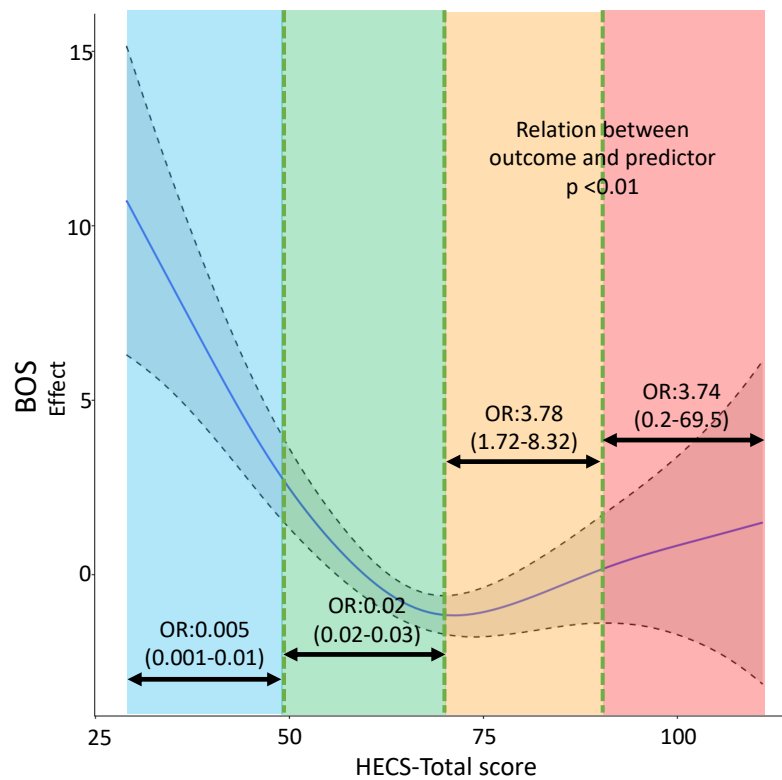
Type D personality -Social Inhibition (SI)



Type-D personality -Social Inhibition (SI) for BOS

Variables	Odds ratio		95% CI	p-value
Age	GAM modeling: negative association			0.28
Sex	1.43		(0.36-5.67)	0.61
Marital status	0.67		(0.16-2.84)	0.59
Children	1.54		(0.56-4.19)	0.39
Exercise	0.03		(0.009-0.14)	<0.01
Years of ICU experience	GAM modeling: negative association			0.54
Type D personality-Social Inhibition (SI)	GAM modeling: positive association			<0.01
	0 th -25 th	3.65	(2.07-6.43)	
	25 th -50 th	3.65	(3.46-3.85)	
	50 th -75 th	3.65	(2-6.66)	
	75 th -100 th	3.65	(1.78-7.47)	

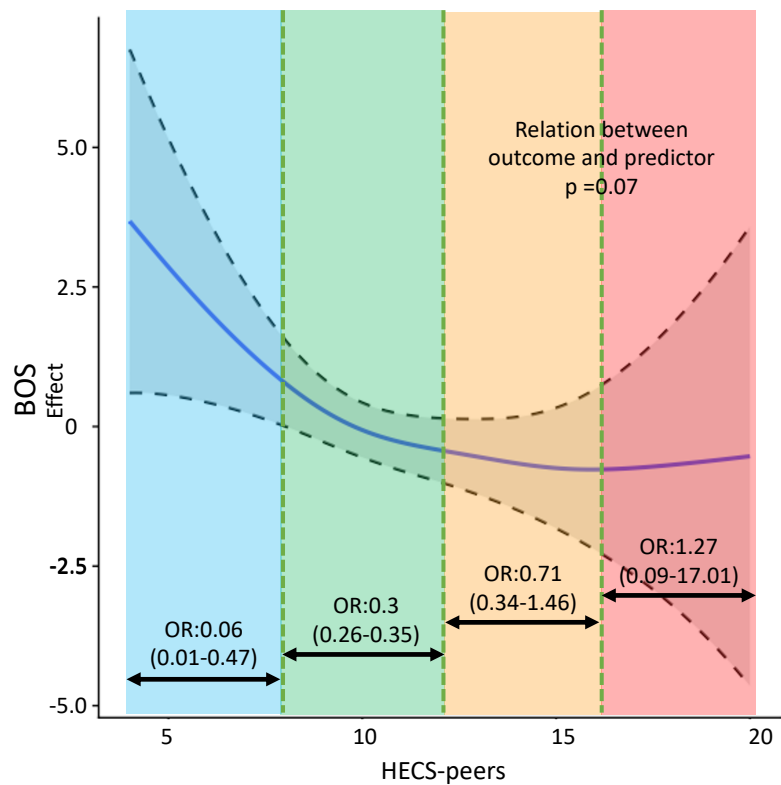
HECS-Total



HECS-Total for BOS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.74
Sex	1.38	(0.36-5.31)	0.63
Marital status	0.43	(0.1-1.74)	0.24
Children	1.68	(0.63-4.46)	0.29
Exercise	0.04	(0.01-0.15)	<0.01
Years of ICU experience	GAM modeling: negative association		0.84
HECS-Total	GAM modeling: negative association		<0.01
	0 th -25 th	0.005 (0.001-0.01)	
	25 th -50 th	0.02 (0.02-0.03)	
	50 th -75 th	3.78 (1.72-8.32)	
	75 th -100 th	3.74 (0.2-69.6)	

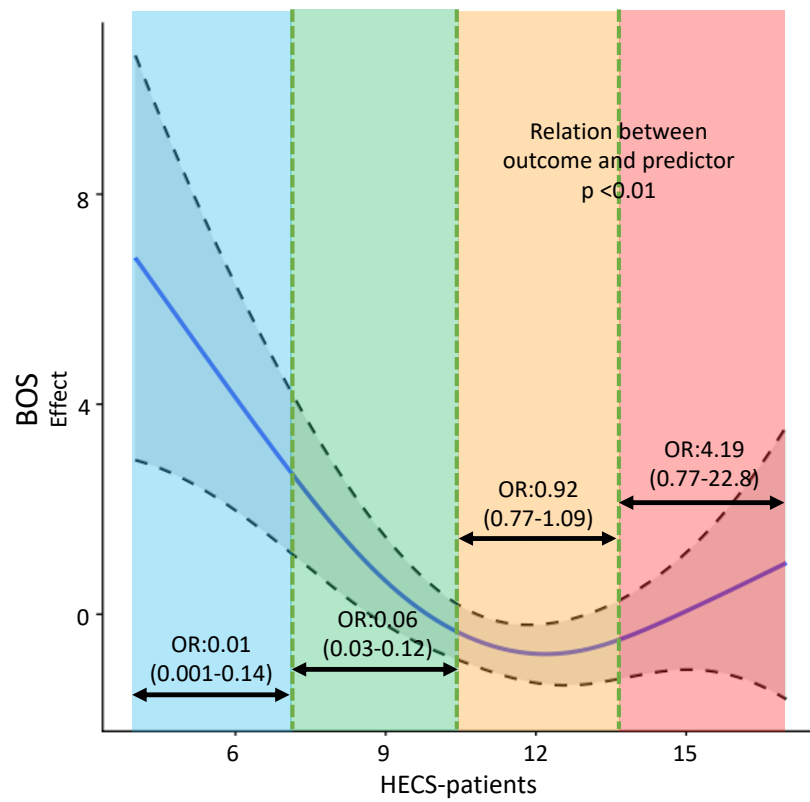
HECS –peers



HECS –peers for BOS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.83
Sex	1.67	(0.41-6.74)	0.47
Marital status	0.52	(0.12-2.23)	0.38
Children	1.7	(0.62-4.66)	0.3
Exercise	0.03	(0.009-0.14)	<0.01
Years of ICU experience	GAM modeling: negative association		0.46
HECS-Peers	GAM modeling: negative association		0.07
	0 th -25 th	0.06 (0.01-0.47)	
	25 th -50 th	0.3 (0.26-0.35)	
	50 th -75 th	0.71 (0.34-1.46)	
	75 th -100 th	1.24 (0.09-17)	

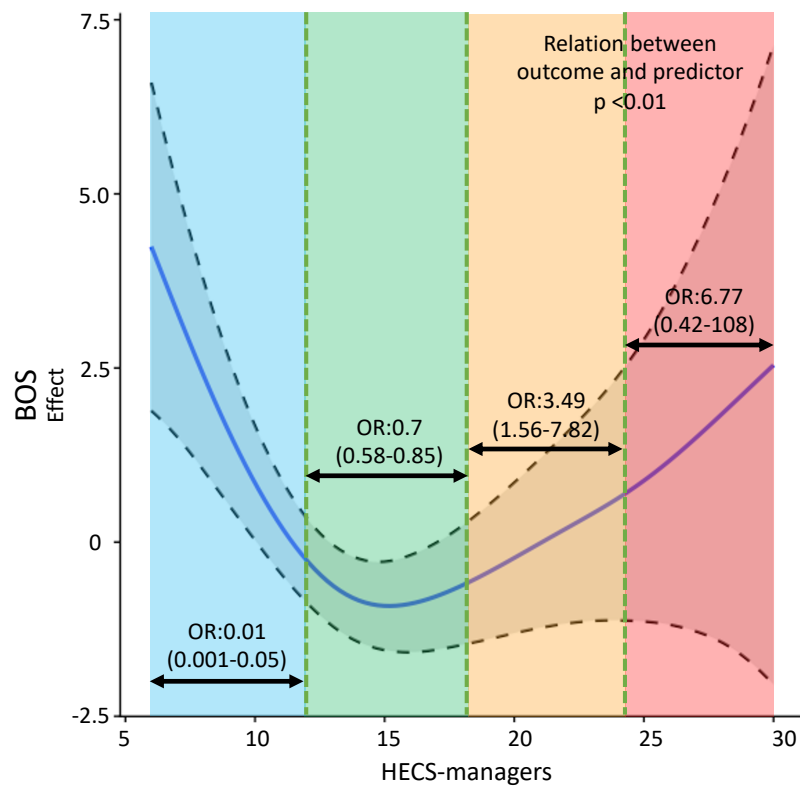
HECS –Patients



HECS –Patients for BOS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.67
Sex	1.68	(0.43-6.58)	0.45
Marital status	0.39	(0.09-1.68)	0.21
Children	2.11	(0.78-5.73)	0.14
Exercise	0.04	(0.01-0.15)	<0.01
Years of ICU experience	GAM modeling: negative association		0.4
HECS-Patients	GAM modeling: negative association		<0.01
	0 th -25 th	0.01 (0.001-0.14)	
	25 th -50 th	0.06 (0.03-0.12)	
	50 th -75 th	0.92 (0.77-1.09)	
	75 th -100 th	4.19 (0.77-22.8)	

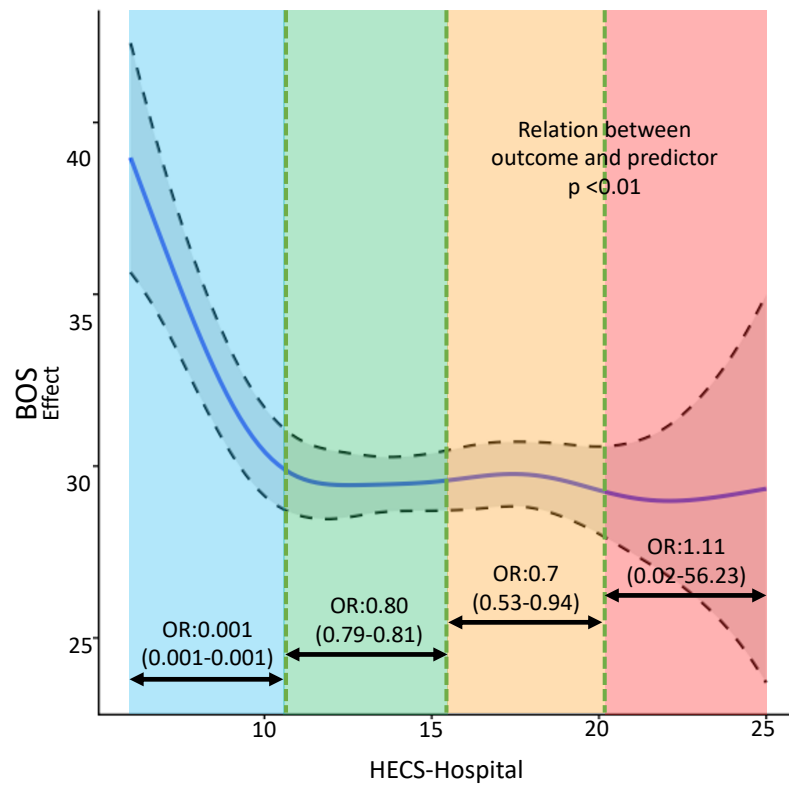
HECS –Managers



HECS –Managers for BOS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.69
Sex	1.41	(0.35-5.62)	0.62
Marital status	0.55	(0.13-2.28)	0.41
Children	1.68	(0.62-4.53)	0.3
Exercise	0.03	(0.008-0.12)	<0.01
Years of ICU experience	GAM modeling: negative association		0.59
HECS-Managers	GAM modeling: negative association		<0.01
	0 th -25 th	0.01 (0.001-0.05)	
	25 th -50 th	0.7 (0.58-0.85)	
	50 th -75 th	3.49 (1.56-7.82)	
	75 th -100 th	6.77 (0.42-108)	

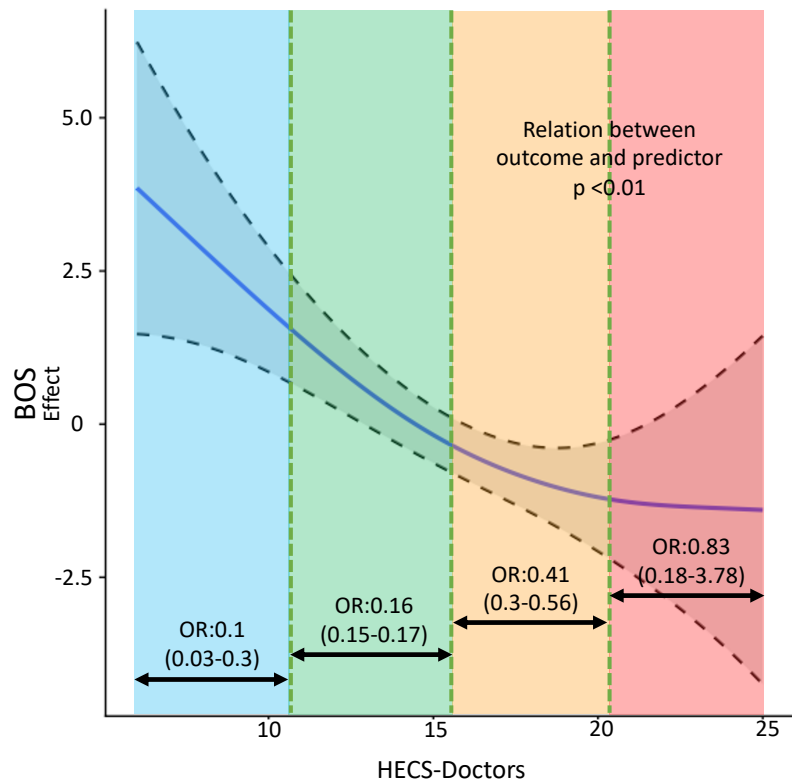
HECS –Hospital



HECS –Hospital for BOS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.33
Sex	1.92	(0.43-6.82)	0.43
Marital status	0.36	(0.11-1.91)	0.29
Children	1.54	(0.57-4.17)	0.39
Exercise	0.03	(0.01-0.14)	<0.01
Years of ICU experience	GAM modeling: negative association		0.97
HECS- Hospital	GAM modeling: negative association		<0.01
	0 th -25 th	0.001 (0.001-0.001)	
	25 th -50 th	0.8 (0.79-0.81)	
	50 th -75 th	0.7 (0.53-0.94)	
	75 th -100 th	1.11 (0.02-56.23)	

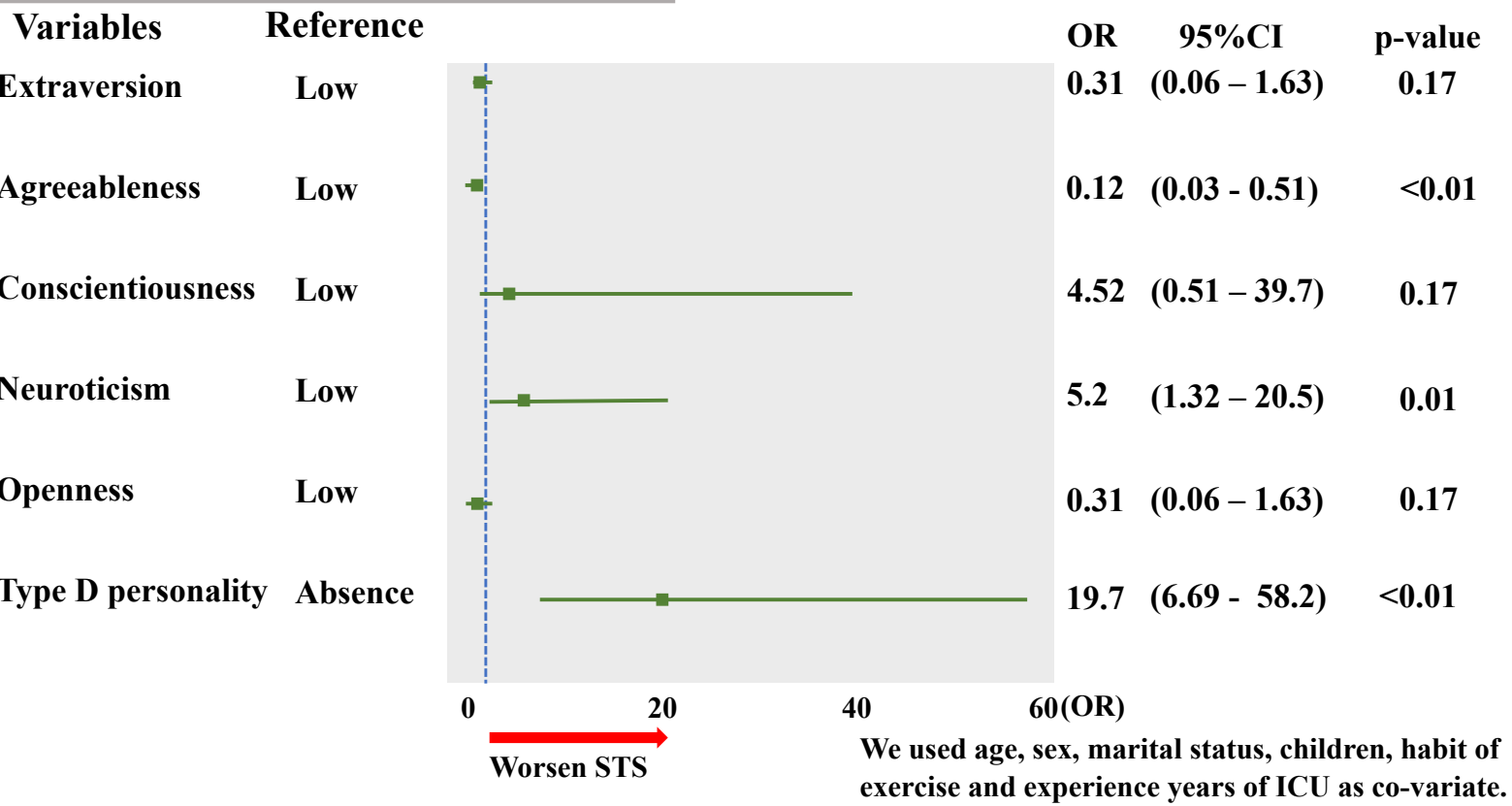
HECS –Doctors



HECS –Doctors for BOS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.33
Sex	1.92	(0.43-6.82)	0.43
Marital status	0.36	(0.11-1.91)	0.29
Children	1.54	(0.57-4.17)	0.39
Exercise	0.03	(0.01-0.14)	<0.01
Years of ICU experience	GAM modeling: negative association		0.97
HECS- Doctors	GAM modeling: negative association		<0.01
	0 th -25 th	0.1 (0.03-0.3)	
	25 th -50 th	0.16 (0.15-0.17)	
	50 th -75 th	0.41 (0.3-0.56)	
	75 th -100 th	0.83 (0.18-3.78)	

Multiple regression model for STS



Extraversion for STS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.4
Sex	0.29	(0.08-1.04)	0.06
Marital status	1.42	(0.38-5.28)	0.59
Children	0.92	(0.37-2.31)	0.87
Exercise	0.58	(0.17-1.98)	0.38
Years of ICU experience	GAM modeling: negative association		0.08
Extraversion	0.31	(0.06-1.63)	0.17

Agreeableness for STS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.34
Sex	0.37	(0.1-1.34)	0.13
Marital status	1.43	(0.38-5.26)	0.58
Children	0.88	(0.35-2.04)	0.79
Exercise	0.6	(0.18-2.04)	0.42
Years of ICU experience	GAM modeling: negative association		0.05
Agreeableness	0.12	(0.03-0.51)	<0.01

Conscientiousness for STS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.26
Sex	0.27	(0.07-0.97)	<0.01
Marital status	1.49	(0.39-5.56)	0.04
Children	0,9	(0.36-2.24)	0.82
Exercise	0.53	(0.15-1.81)	0.31
Years of ICU experience	GAM modeling: negative association		0.1
conscientiousness	4.52	(0.5-39.7)	0.17

Neuroticism for STS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.27
Sex	0.28	(0.08-1)	0.05
Marital status	1.38	(0.37-5.1)	0.62
Children	0.96	(0.38-2.39)	0.93
Exercise	0.66	(0.19-2.27)	0.51
Years of ICU experience	GAM modeling: negative association		0.05
Neuroticism	5.2	(1.32-20.5)	0.01

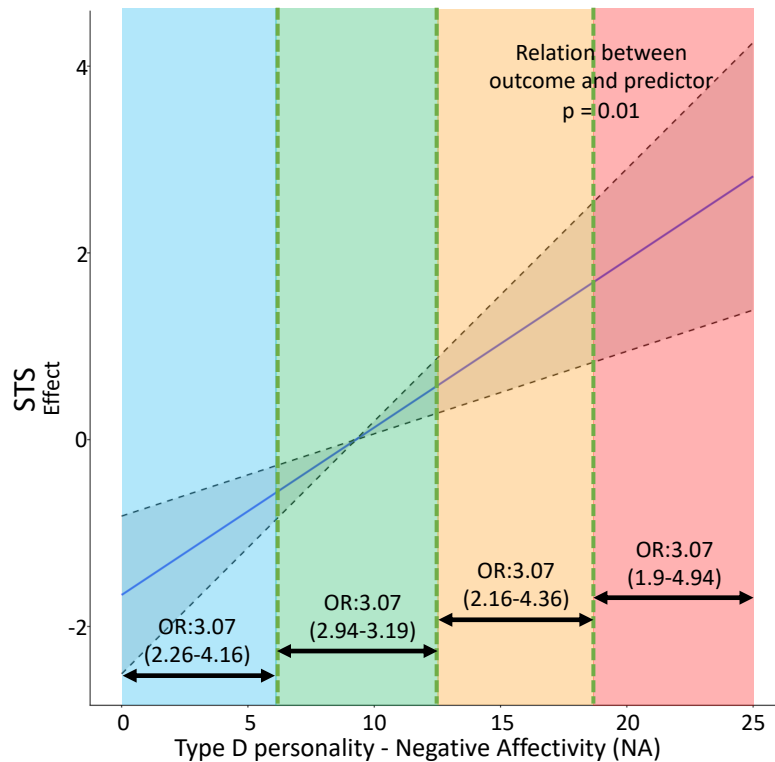
Openness for STS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.4
Sex	0.29	(0.08-1.04)	0.06
Marital status	1.42	(0.38-5.28)	0.59
Children	0.92	(0.37-2.31)	0.87
Exercise	0.58	(0.17-1.98)	0.38
Years of ICU experience	GAM modeling: negative association		0.08
Openness	0.31	(0.06-1.63)	0.17

Type-D personality for STS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.15
Sex	0.3	(0.08-1.01)	0.05
Marital status	1.33	(0.75-2.33)	0.65
Children	0.9	(0.37-2.18)	0.83
Exercise	0.53	(0.16-1.72)	0.29
Years of ICU experience	GAM modeling: negative association		0.03
Type D personality	19.7	(6.69-58.2)	<0.01

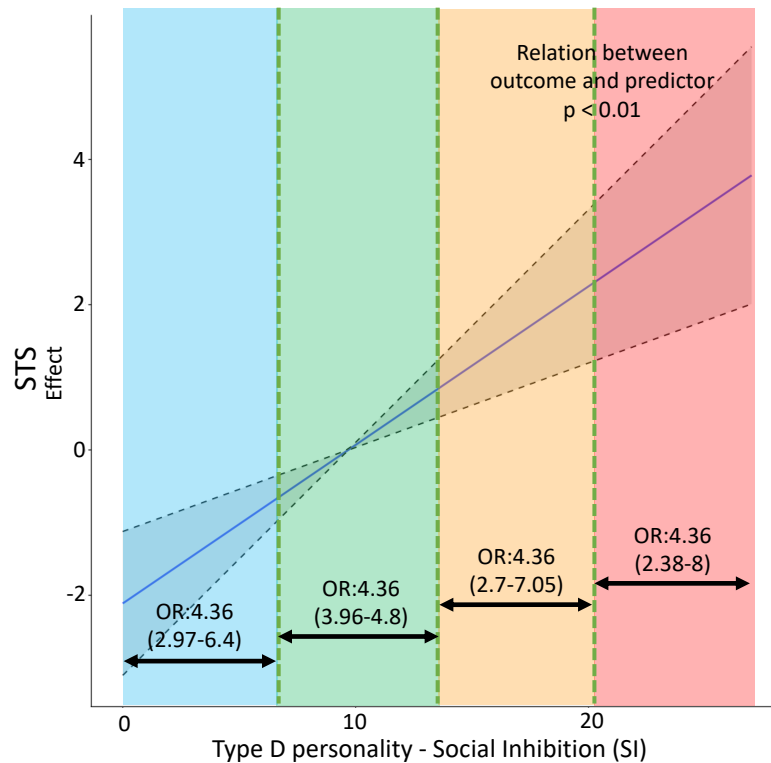
Type D personality- Negative Affectivity (NA)



Type D personality- Negative Affectivity (NA) for STS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.23
Sex	0.3	(0.08-1.04)	0.05
Marital status	0.36	(0.52-6.96)	0.33
Children	0.68	(0.27-1.69)	0.41
Exercise	0.49	(0.14-1.63)	0.24
Years of ICU experience	GAM modeling: negative association		0.06
Type D personality- Negative Affectivity (NA)	GAM modeling: positive association		<0.01
	0 th -25 th	3.07 (2.26-4.16)	
	25 th -50 th	3.07 (2.94-3.19)	
	50 th -75 th	3.07 (2.16-4.36)	
	75 th -100 th	3.07 (1.9-4.94)	

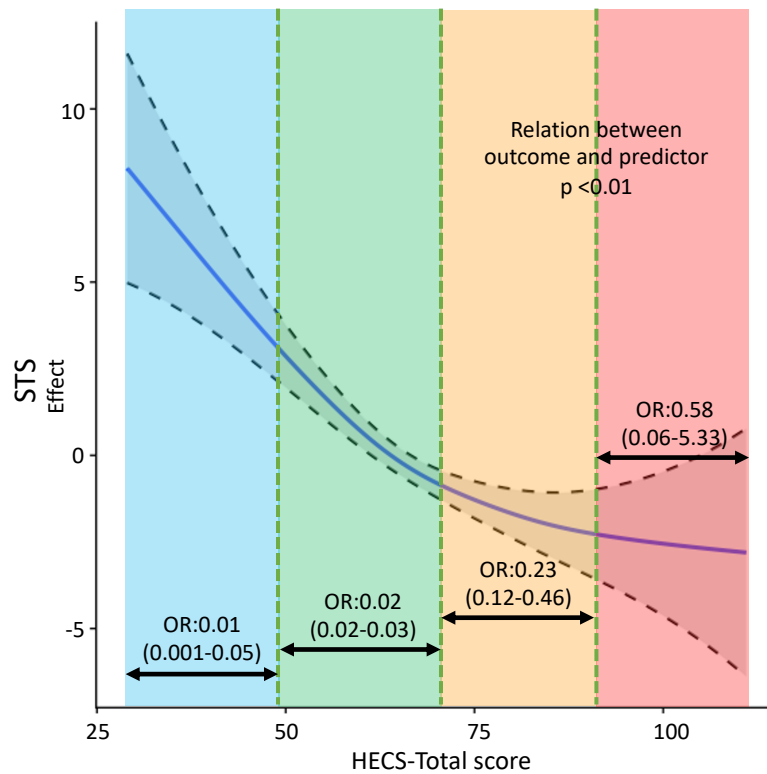
Type D personality -Social Inhibition (SI)



Type D personality -Social Inhibition (SI) for STS

Variables	Odds ratio		95% CI	p-value
Age	GAM modeling: negative association			0.1
Sex	0.24		(0.07-0.83)	0.02
Marital status	1.57		(0.43-5.65)	0.49
Children	0.81		(0.33-1.99)	0.65
Exercise	0.54		(0.16-1.78)	0.31
Years of ICU experience	GAM modeling: negative association			0.07
Type D personality – Social Inhibition (SI)	GAM modeling: positive association			<0.01
	0 th -25 th	4.36	(2.97-6.4)	
	25 th -50 th	4.36	(3.96-4.8)	
	50 th -75 th	4.36	(2.7-7.05)	
	75 th -100 th	4.36	(2.38-8)	

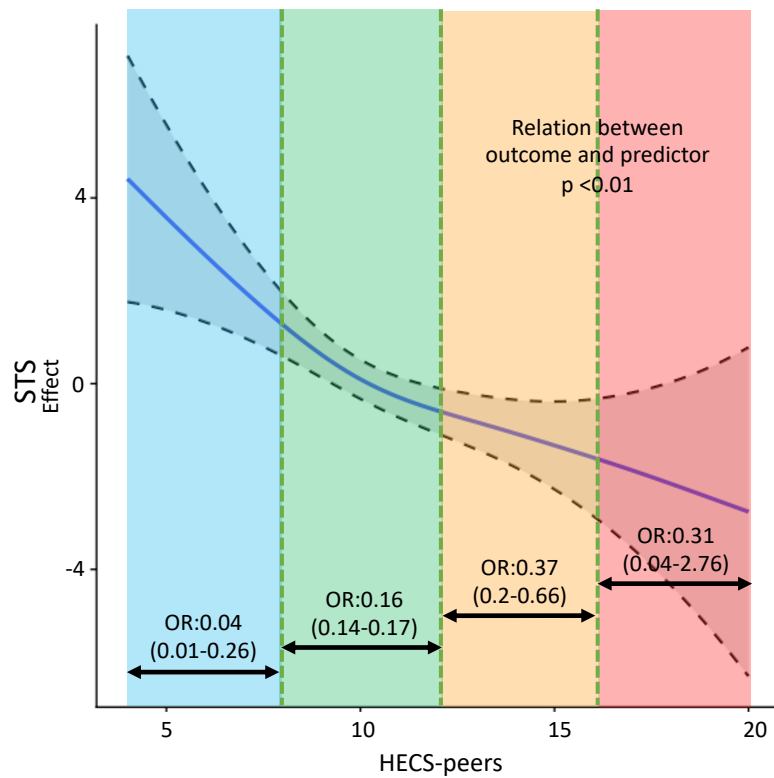
HECS-Total



HECS-Total for STS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.49
Sex	0.32	(0.09-1.05)	0.06
Marital status	1.25	(0.36-4.25)	0.71
Children	0.97	(0.41-2.28)	0.95
Exercise	0.67	(0.21-2.11)	0.5
Years of ICU experience	GAM modeling: negative association		0.23
HECS-Total	GAM modeling: negative association		<0.01
	0 th -25 th	0.01 (0.001-0.05)	
	25 th -50 th	0.02 (0.02-0.03)	
	50 th -75 th	0.23 (0.12-0.46)	
	75 th -100 th	0.58 (0.06-5.33)	

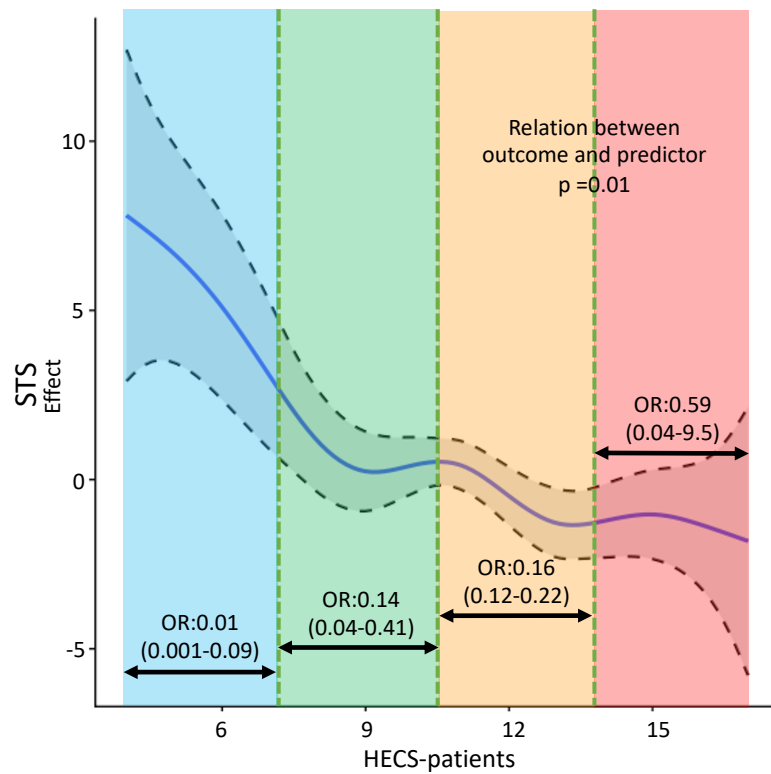
HECS –Peers



HECS –Peers for STS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.41
Sex	0.32	(0.09-1.1)	0.07
Marital status	1.38	(0.38-5)	0.61
Children	0.85	(0.34-2.08)	0.73
Exercise	0.57	(0.21-2.11)	0.36
Years of ICU experience	GAM modeling: negative association		0.06
HECS-Peers	GAM modeling: negative association		<0.01
	0 th -25 th	0.04 (0.01-0.26)	
	25 th -50 th	0.16 (0.14-0.17)	
	50 th -75 th	0.37 (0.2-0.66)	
	75 th -100 th	0.31 (0.04-2.76)	

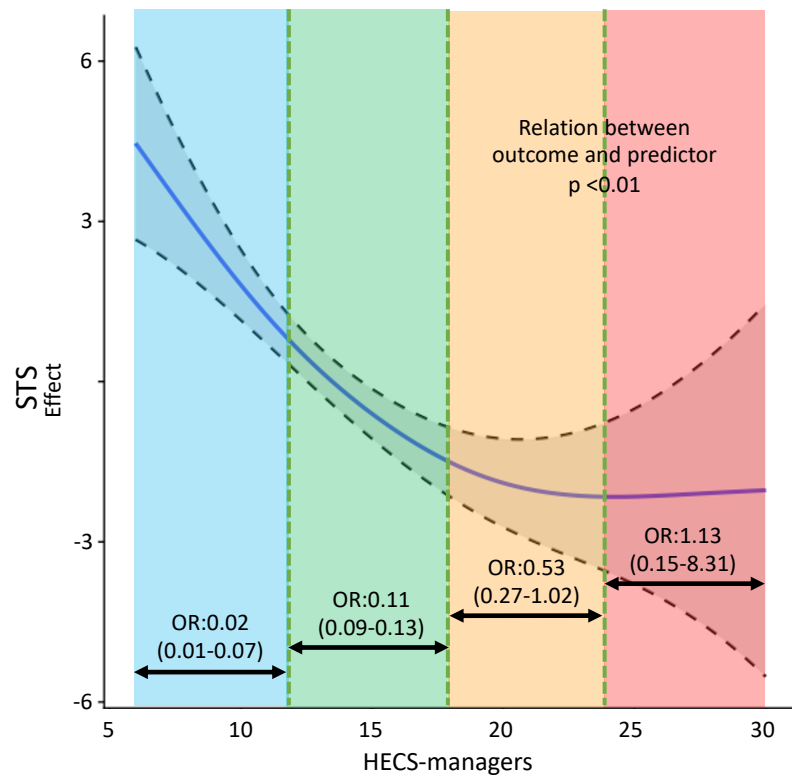
HECS –Patients



HECS –Patients for STS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.41
Sex	0.28	(0.02-3.29)	0.04
Marital status	1.35	(0.37-4.92)	0.65
Children	1.05	(0.43-2.57)	0.9
Exercise	0.55	(0.16-1.81)	0.32
Years of ICU experience	GAM modeling: negative association		0.12
HECS –Patients	GAM modeling: negative association		0.01
	0 th -25 th	0.01 (0.001-0.09)	
	25 th -50 th	0.14 (0.04-0.41)	
	50 th -75 th	0.16 (0.12-0.22)	
	75 th -100 th	0.59 (0.04-9.5)	

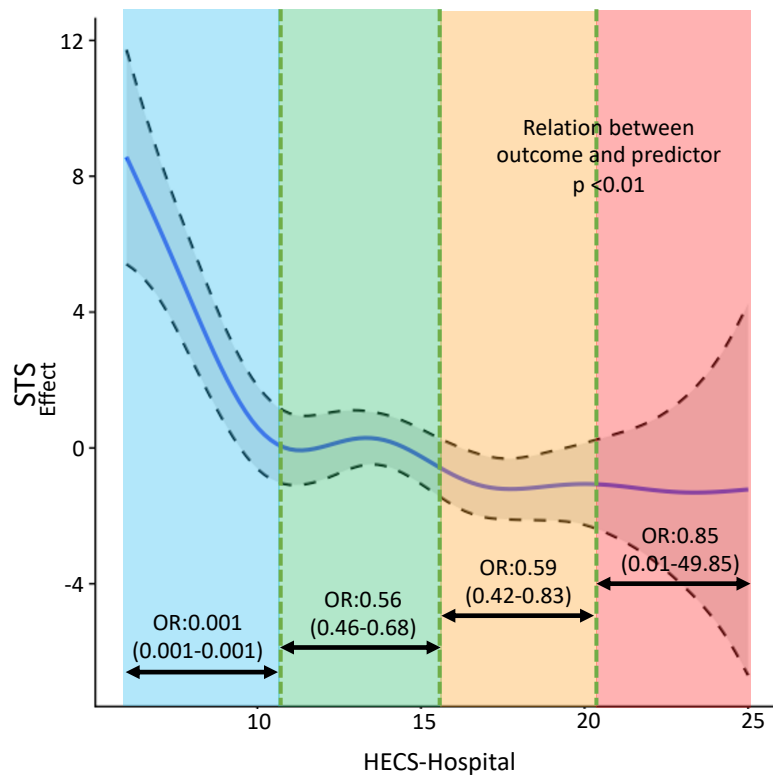
HECS –Managers



HECS –Managers for STS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.48
Sex	0.37	(0.05-2.55)	0.11
Marital status	1.33	(0.38-4.62)	0.64
Children	0.9	(0.38-2.15)	0.82
Exercise	0.49	(0.15-1.58)	0.23
Years of ICU experience	GAM modeling: negative association		0.09
HECS – Managers	GAM modeling: negative association		<0.01
	0 th -25 th	0.02 (0.01-0.07)	
	25 th -50 th	0.11 (0.09-0.13)	
	50 th -75 th	0.53 (0.27-1.02)	
	75 th -100 th	1.13 (0.15-8.31)	

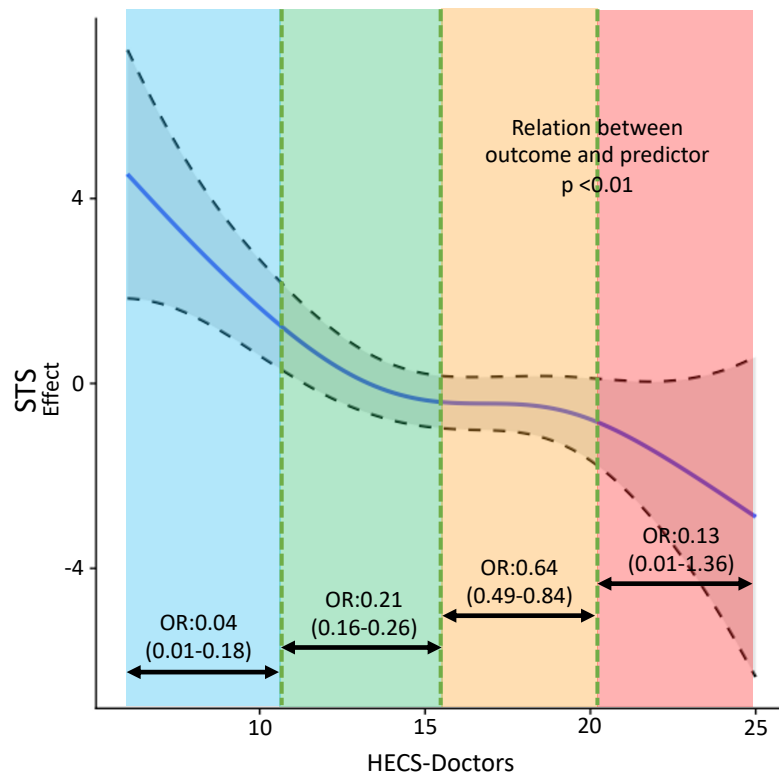
HECS –Hospital



HECS –Hospital for STS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.39
Sex	0.32	(0.09-1.06)	0.06
Marital status	1.27	(0.37-4.37)	0.69
Children	0.84	(0.35-1.98)	0.69
Exercise	0.6	(0.19-1.9)	0.38
Years of ICU experience	GAM modeling: negative association		0.18
HECS –Hospital	GAM modeling: negative association		<0.01
	0 th -25 th	0.001 (0.001-0.001)	
	25 th -50 th	0.56 (0.46-0.68)	
	50 th -75 th	0.59 (0.42-0.83)	
	75 th -100 th	0.85 (0.01-49.85)	

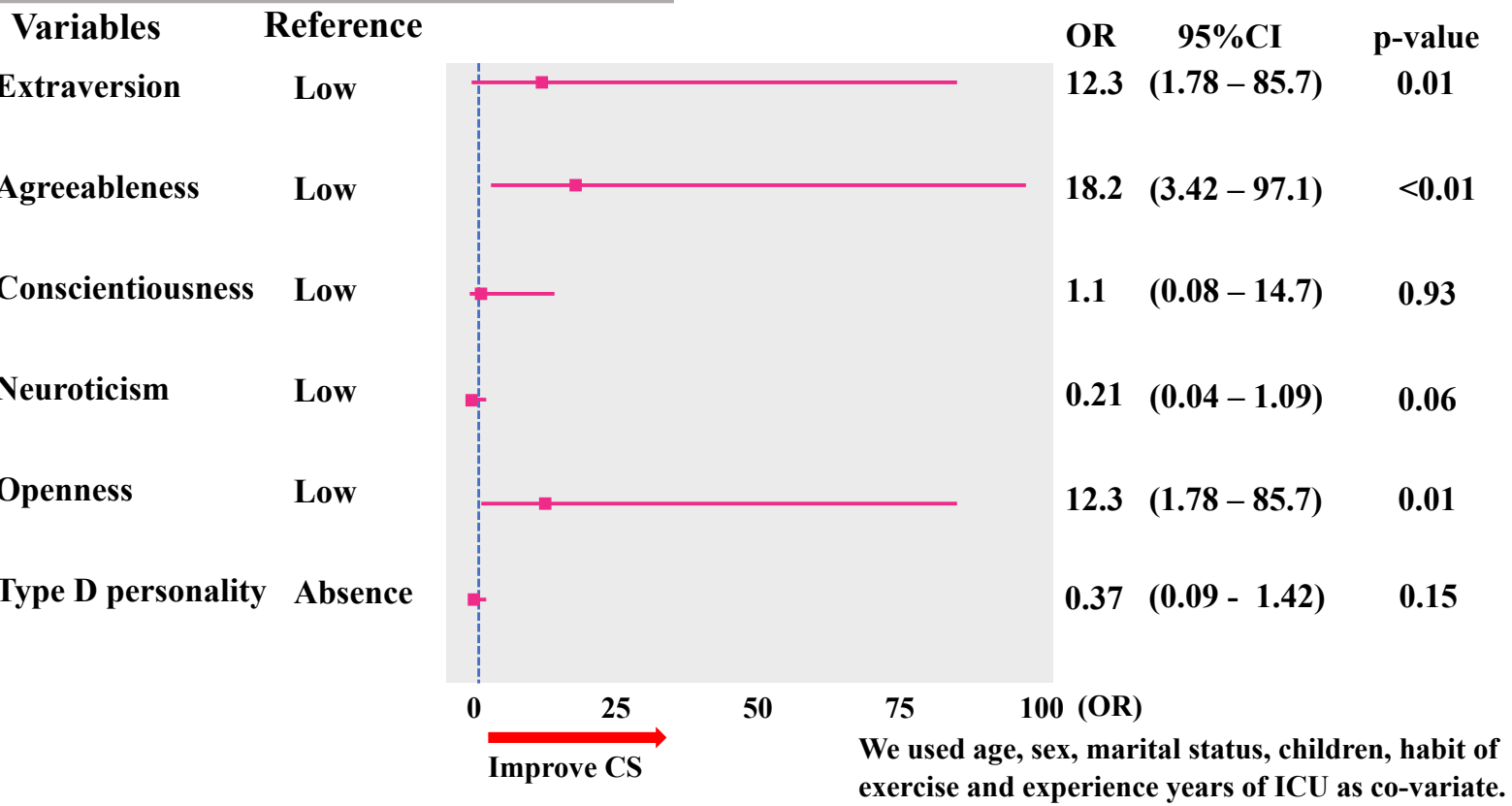
HECS –Doctors



HECS –Doctors for STS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.49
Sex	0.24	(0.07-0.83)	0.02
Marital status	1.19	(0.33-4.29)	0.79
Children	1	(0.41-2.46)	0.98
Exercise	0.71	(0.21-2.39)	0.59
Years of ICU experience	GAM modeling: negative association		0.23
HECS – Doctors	GAM modeling: negative association		<0.01
	0 th -25 th	0.04 (0.01-0.18)	
	25 th -50 th	0.21 (0.16-0.26)	
	50 th -75 th	0.64 (0.49-0.84)	
	75 th -100 th	0.13 (0.01-1.36)	

Multiple regression model for CS



Extraversion for CS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.22
Sex	0.8	(0.18-3.54)	0.76
Marital status	0.23	(0.05-1.09)	0.06
Children	2.31	(0.78-6.79)	0.12
Exercise	11.55	(2.7-49.2)	<0.01
Years of ICU experience	GAM modeling: negative association		0.07
Extraversion	12.3	(1.78-85.7)	0.01

Agreeableness for CS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.16
Sex	0.57	(0.12-2.56)	0.46
Marital status	0.23	(0.05-1.08)	0.06
Children	2.49	(0.85-7.27)	0.09
Exercise	11.44	(2.71-48.21)	<0.01
Years of ICU experience	GAM modeling: negative association		0.07
Agreeableness	18.2	(3.42-97.1)	<0.01

Conscientiousness for CS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.12
Sex	0.91	(0.2-4.11)	0.91
Marital status	0.25	(0.05-1.23)	0.09
Children	2.41	(0.81-7.18)	0.11
Exercise	1.11	(0.25-4.82)	<0.01
Years of ICU experience	GAM modeling: negative association		0.14
conscientiousness	1.1	(0.08-14.7)	0.93

Neuroticism for CS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.12
Sex	0.87	(0.19-3.89)	0.86
Marital status	0.25	(0.05-1.17)	0.08
Children	2.27	(0.76-6.72)	0.13
Exercise	11.03	(2.54-47.8)	<0.01
Years of ICU experience	GAM modeling: negative association		0.11
Neuroticism	0.21	(0.04-1.09)	0.06

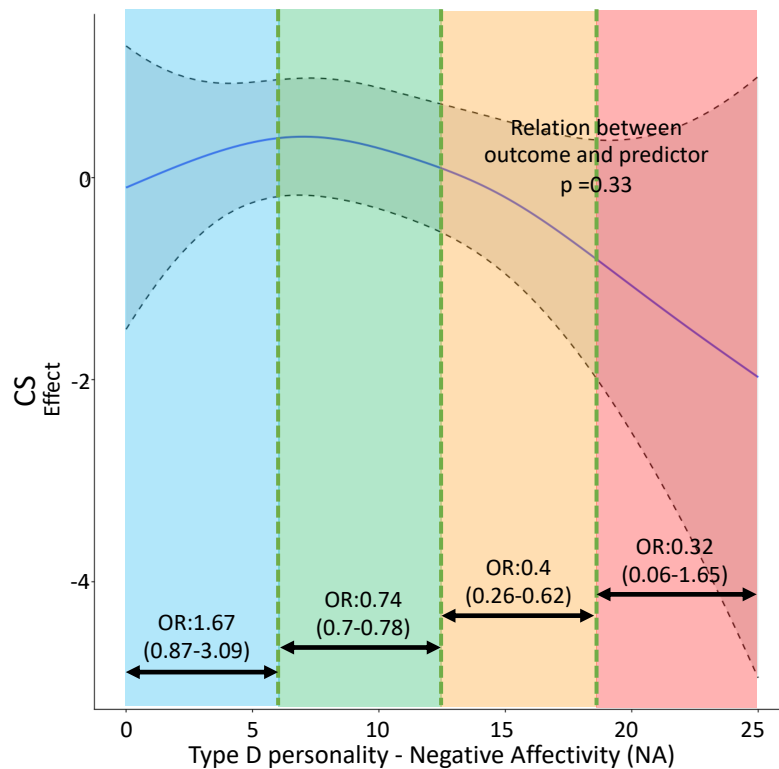
Openness for CS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.22
Sex	0.8	(0.18-3.54)	0.76
Marital status	0.23	(0.05-1.09)	0.06
Children	2.31	(0.78-6.79)	0.12
Exercise	11.55	(2.7-49.24)	<0.01
Years of ICU experience	GAM modeling: negative association		0.07
Openness	12.3	(1.78-85.7)	0.01

Type-D personality for CS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.09
Sex	0.87	(0.19-3.92)	0.86
Marital status	0.25	(0.05-1.19)	0.08
Children	2.41	(0.81-7.15)	0.11
Exercise	13.49	(3.14-57.83)	<0.01
Years of ICU experience	GAM modeling: negative association		0.14
Type-D personality	0.37	(0.09-1.42)	0.15

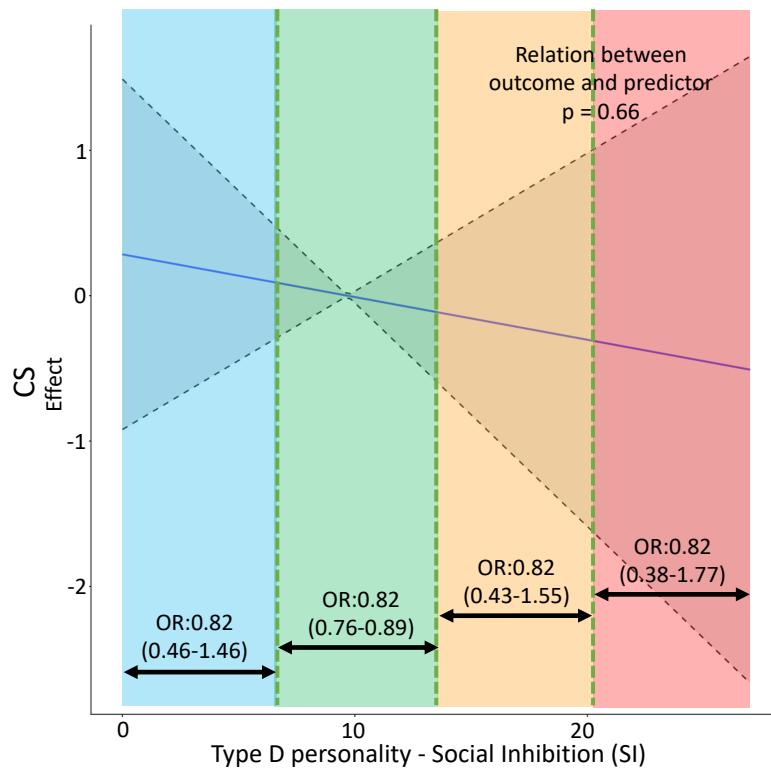
Type D personality- Negative Affectivity (NA)



Type D personality- Negative Affectivity (NA) for CS

Variables	Odds ratio		95% CI	p-value
Age	GAM modeling: negative association			0.12
Sex	0.85		(0.19-3.8)	0.83
Marital status	0.23		(0.04-1.1)	0.06
Children	2.69		(0.89-8.09)	0.07
Exercise	13.39		(3.12-57.47)	<0.01
Years of ICU experience	GAM modeling: negative association			0.14
Type D personality- Negative Affectivity (NA)	GAM modeling: negative association			0.33
	0 th -25 th	1.67	(0.87-3.09)	
	25 th -50 th	0.74	(0.7-0.78)	
	50 th -75 th	0.4	(0.26-0.62)	
	75 th -100 th	0.32	(0.06-1.65)	

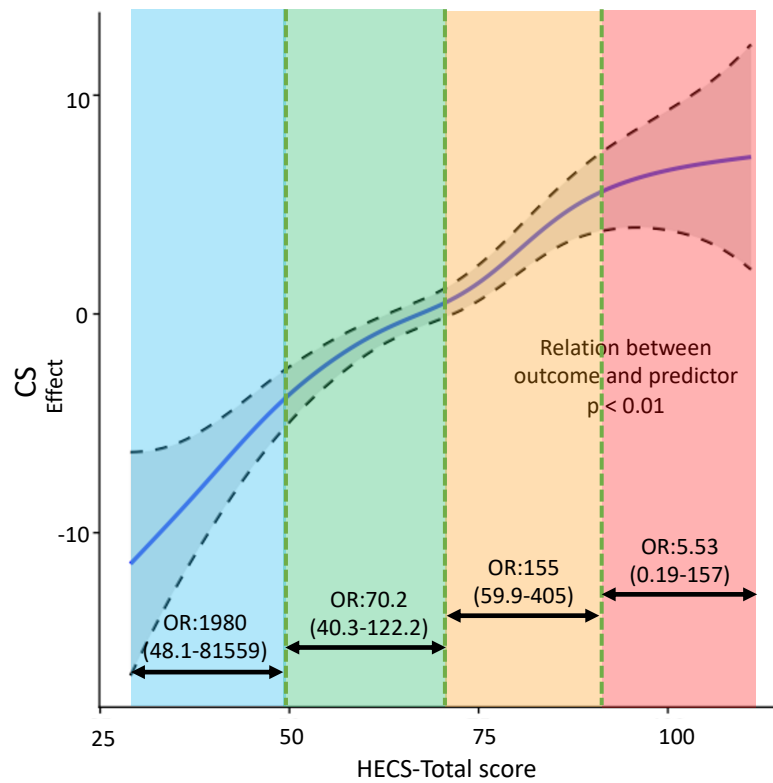
Type D personality -Social Inhibition (SI)



Type D personality -Social Inhibition (SI) for CS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.1
Sex	0.93	(0.2-4.18)	0.92
Marital status	0.25	(0.05-1.19)	0.08
Children	2.45	(0.82-7.3)	0.1
Exercise	13.46	(3.12-57.95)	<0.01
Years of ICU experience	GAM modeling: negative association		0.15
Type D personality – Social Inhibition (SI)	GAM modeling: negative association		0.63
	0 th -25 th	0.82 (0.46-1.46)	
	25 th -50 th	0.82 (0.76-0.89)	
	50 th -75 th	0.82 (0.43-1.55)	
	75 th -100 th	0.82 (0.38-1.77)	

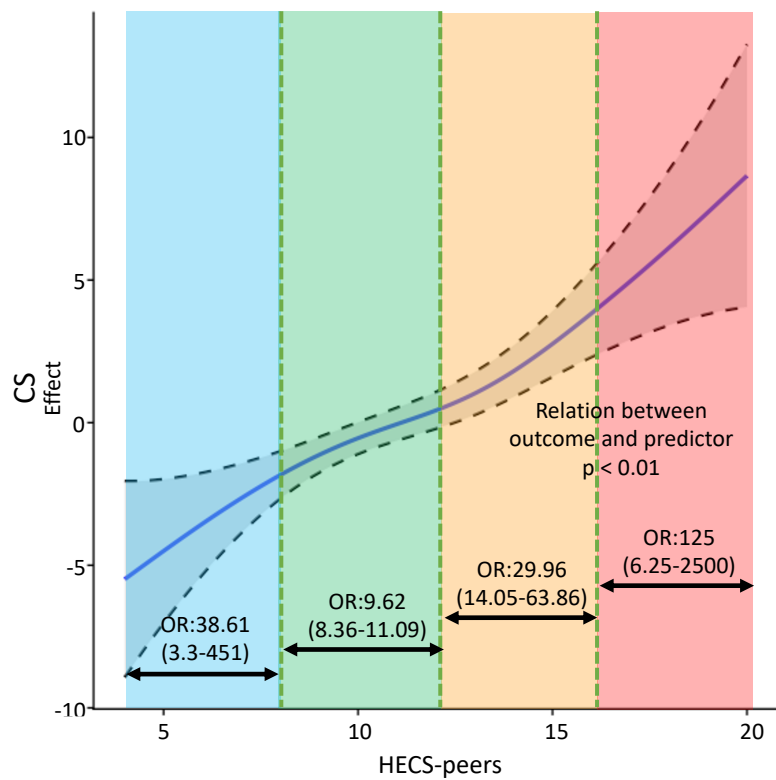
HECS-Total



HECS-Total for CS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.23
Sex	0.63	(0.16-2.37)	0.49
Marital status	0.3	(0.07-1.19)	0.69
Children	2.14	(0.82-5.57)	0.11
Exercise	9.52	(2.62-34.59)	<0.01
Years of ICU experience	GAM modeling: negative association		0.18
HECS-Total	GAM modeling: positive association		<0.01
	0 th -25 th	1980 (48.1-81559)	
	25 th -50 th	70.2 (40.3-122.2)	
	50 th -75 th	155 (59.9-405)	
	75 th -100 ^t	5.53 (0.19-157)	

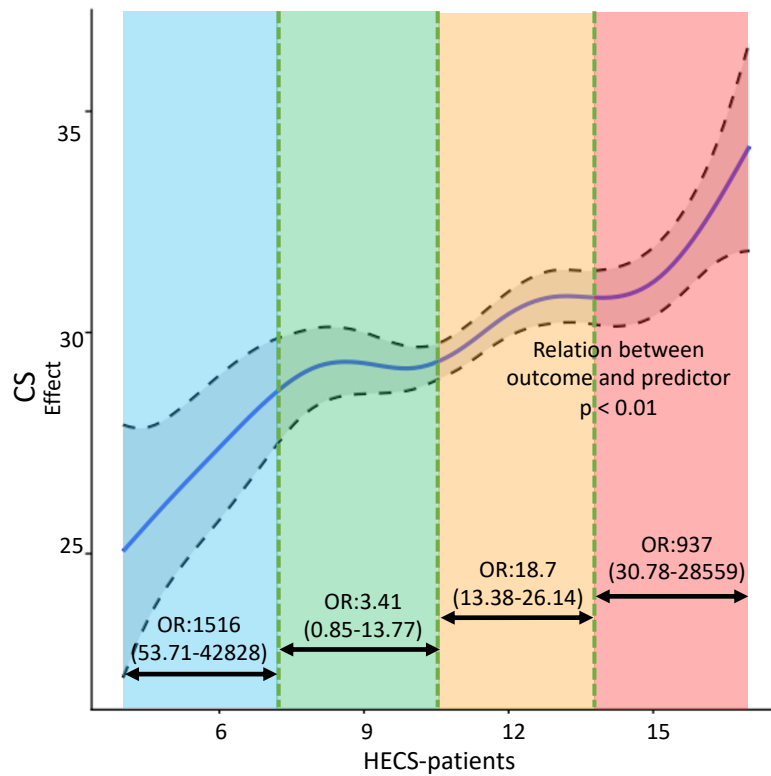
HECS –Peers



HECS –Peers for CS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.27
Sex	0.61	(0.14-2.53)	0.49
Marital status	0.22	(0.05-0.99)	0.04
Children	2.82	(1-7.88)	0.04
Exercise	9.86	(2.46-39.5)	<0.01
Years of ICU experience	GAM modeling: negative association		0.04
HECS-Peers	GAM modeling: positive association		<0.01
	0 th -25 th	38.61 (3.3-451)	
	25 th -50 th	9.62 (8.36-11.09)	
	50 th -75 th	29.96 (14.05-63.86)	
	75 th -100 th	125 (6.25-2500)	

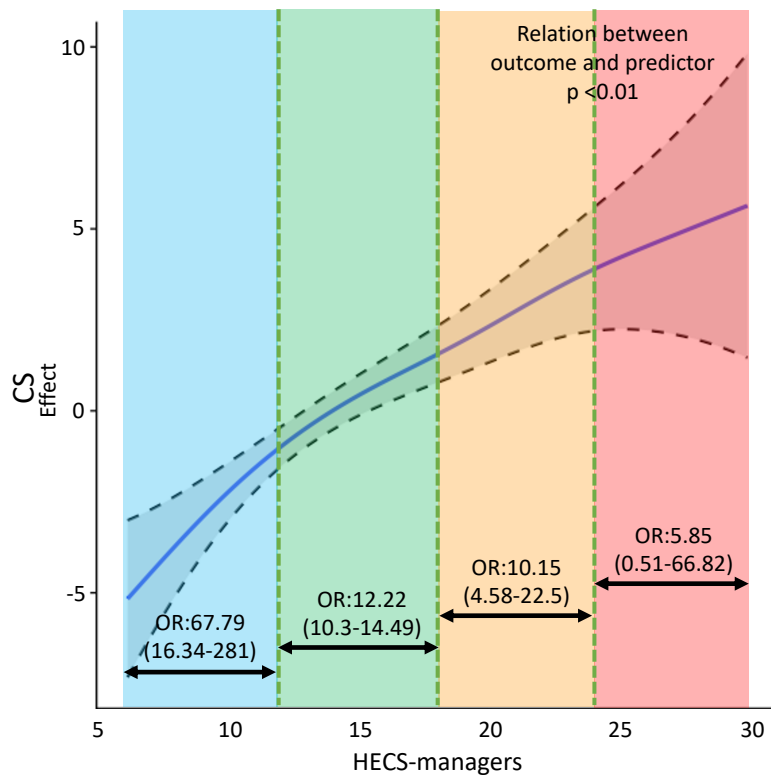
HECS –Patients



HECS –Patients for CS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.14
Sex	0.83	(0.2-3.34)	0.79
Marital status	0.77	(0.04-0.77)	0.02
Children	2.22	(0.8-6.17)	0.12
Exercise	11.9	(3.05-46.5)	<0.01
Years of ICU experience	GAM modeling: negative association		0.04
HECS –Patients	GAM modeling: positive association		<0.01
	0 th -25 th	1516 (53.71-42828)	
	25 th -50 th	3.41 (0.85-13.77)	
	50 th -75 th	18.7 (13.38-26.14)	
	75 th -100 th	937 (30.78-28559)	

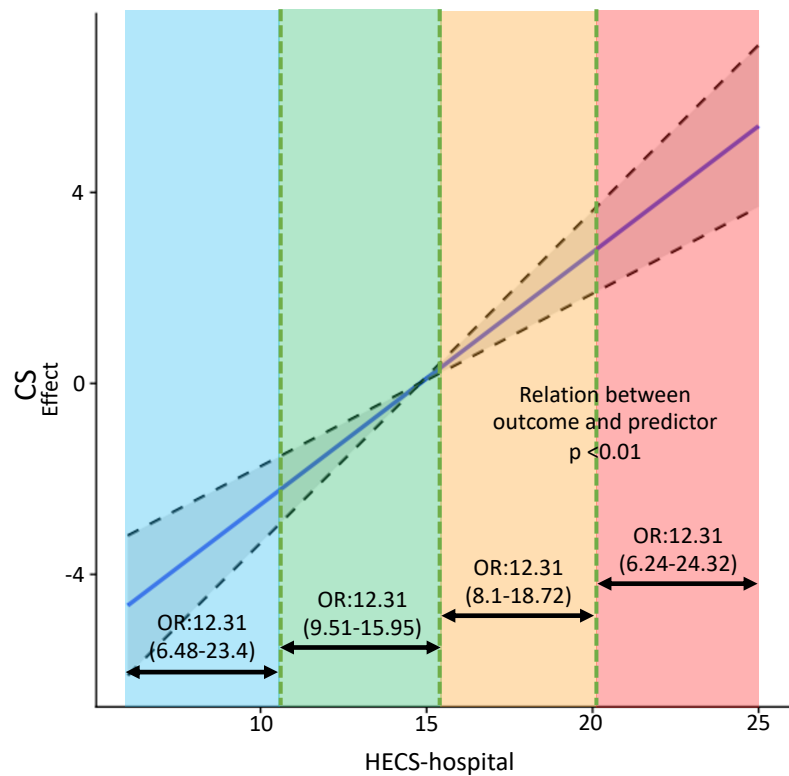
HECS –Managers



HECS –Managers for CS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.24
Sex	0.56	(0.13-2.32)	0.42
Marital status	0.27	(0.06-1.19)	0.08
Children	2.31	(0.83-6.39)	0.1
Exercise	13.4	(3.39-53.16)	<0.01
Years of ICU experience	GAM modeling: negative association		0.1
HECS – Managers	GAM modeling: positive association		<0.01
	0 th -25 th	67.79 (16.34-281)	
	25 th -50 th	12.22 (10.3-14.49)	
	50 th -75 th	10.15 (4.58-22.5)	
	75 th -100 th	5.85 (0.51-66.82)	

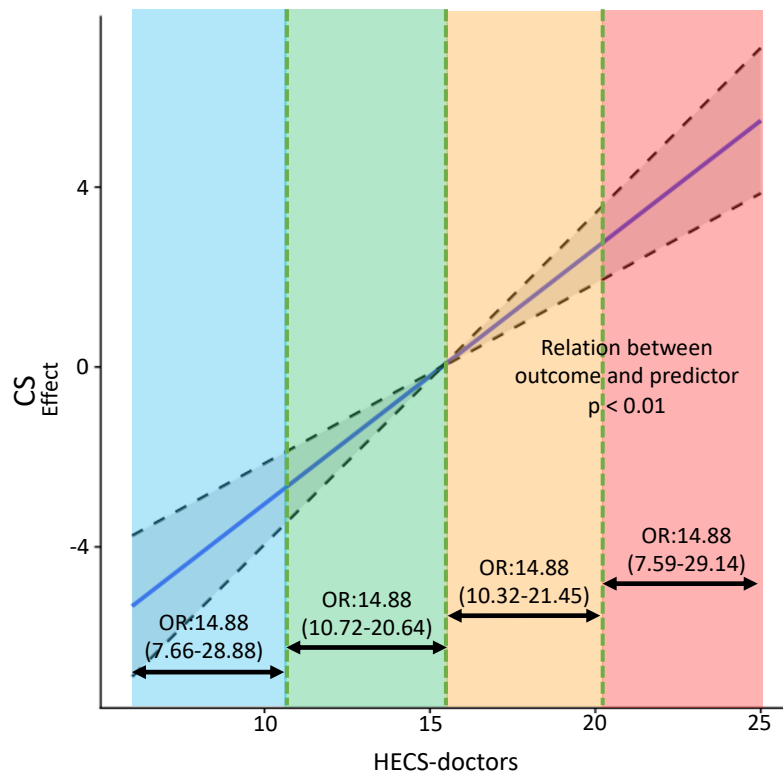
HECS –Hospital



HECS –Hospital for CS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.17
Sex	0.68	(0.16-2.81)	0.6
Marital status	0.27	(0.06-1.16)	0.08
Children	2.45	(0.88-6.81)	0.08
Exercise	11.1	(2.84-44.16)	<0.01
Years of ICU experience	GAM modeling: negative association		0.2
HECS –Hospital	GAM modeling: positive association		<0.01
	0 th -25 th	12.31 (6.48-23.4)	
	25 th -50 th	12.31 (9.51-15.95)	
	50 th -75 th	12.31 (8.1-18.72)	
	75 th -100 th	12.31 (6.24-24.32)	

HECS –Doctors



HECS –Doctors for CS

Variables	Odds ratio	95% CI	p-value
Age	GAM modeling: negative association		0.14
Sex	0.24	(0.07-0.83)	0.8
Marital status	1.19	(0.33-4.29)	0.12
Children	1	(0.41-2.46)	0.27
Exercise	0.71	(0.21-2.39)	<0.01
Years of ICU experience	GAM modeling: negative association		0.34
HECS – Doctors	GAM modeling: positive association		<0.01
	0 th -25 th	14.88 (7.66-28.88)	
	25 th -50 th	14.88 (10.72-20.64)	
	50 th -75 th	14.88 (10.32-21.45)	
	75 th -100 th	14.88 (7.59-29.14)	