## Table S4: PedsQL Ordinal Mixed Effects Models (adjusted for VIBES-Junior cohort) $^{a}$

Adj OR (95%C)Adj OR (95%C)Adj OR (95%C)SwMaleRefFemale0.78 (0.5), 1.05)0.56 (0.44, 0.72)0.90 (0.68, 1.19)Age group44 yearsRef0.29 (0.20, 0.42)0.64 (0.46, 0.89)0.21 (0.22, 0.45)10-14 years0.22 (0.15, 0.32)0.38 (0.27, 0.5)0.22 (0.15, 0.32)15-17 years0.22 (0.15, 0.32)0.38 (0.27, 0.5)0.22 (0.05, 0.3)15-17 yearsRefSesRefModerate SESRefModerate SESRefTransportRefTransportRefTransportRefTransportRefHespital statisStatistisAt least 1 concorbidityRefItselat 1 concorbidityRefMid (5-16)1.18 (0.76, 1.80)0.30 (0.80, 2.10)1.00 (0.80, 2.10)Itselat 1 concorbidityRefMid (5-16)1.18 (0.76, 1.81)1.18 (0.76, 1.84)0.28 (0.46, 1.30)Itselat 1 concorbidityRefItselat 1 concorbidity0.32 (0.10, 1.15)1.18 (0.76, 1.84)0.28 (0.46, 1.30)Itselat 1 concorbidity0.32 (0.10, 1.15)1.18 (0.76, 1.84)0.28 (0.46, 1.30)Itselat 1 concorbidity0.32 (0.10, 1.15)1.18 (0.76, 1.84)0.28 (0.56, 1.15)Itselat	Model		TOTAL	PHYSICAL	PSYCHOSOCIAL
MaleRefFermale0.78 (0.59,1.05)0.56 (0.44.072) [0.90 (0.68,1.19)Age group0.41 (0.42 (0.472) [0.90 (0.68,1.19)0.91 (0.26,0.42) [0.4 yearsRef0.20 (0.20,0.42) [0.40 (0.46,0.89) [0.31 (0.22,0.45) [10-14 years0.20 (0.15,0.32) [0.38 (0.27,0.53) [0.27 (0.19,0.92) [15-17 years0.22 (0.15,0.32) [0.29 (0.20,0.41) [0.32 (0.20,0.51) [15-17 years0.20 (0.15,0.32) [0.29 (0.20,0.41) [0.32 (0.20,0.51) [15-17 years0.20 (1.05,0.32) [0.29 (0.20,0.41) [0.32 (0.20,0.51) [15-17 years1.74 (1.27,2.39) [1.57 (1.20,0.61) [1.55 (1.15,2.10) [16-18 years1.74 (1.27,2.39) [1.57 (1.20,0.61) [1.55 (1.15,2.10) [16-19 years2.76 (1.91,3.99) [2.22 (1.61,3.06) [2.22 (1.55,3.19) [16-19 years1.67 (0.39,0.85) [0.58 (0.40,0.86) [2.23 (0.57,0.51) [17 years1.67 (1.30) [0.58 (0.40,0.86) [3.68 (0.40,0.86) [17 years1.10 (0.67,1.80) [1.30 (0.80,2.10) [1.30 (0.80,2.10) [18 years1.10 (0.67,1.80) [0.30 (0.15,0.50) [3.30 (0.40,0.71) [19 years1.10 (0.67,1.51) [1.80 (7.61,4.10) [0.28 (0.47,0.4.10) [19 years1.20 (0.51,1.51) [1.18 (0.76,1.4.10) [0.28 (0.47,0.4.10) [19 years1.20 (0.51,1.51) [1.18 (0.76,1.4.10) [0.28 (0.46,1.30) [19 years1.20 (0.51,1.51) [1.18 (0.76,1.4.10) [0.28 (0.46,1.30) [19 years1.20 (0.51,1.51)			Adj OR (95%CI)	Adj OR (95%CI)	Adj OR (95%CI)
Female $0.78 (0.59, 1.05)$ $0.56 (0.40, 0.72)$ $0.90 (0.68, 1.19)$ Age group $0.4$ years $Ref$ $5.9$ years $0.20 (0.20, 0.42)$ $0.44 (0.46, 0.89)$ $0.31 (0.22, 0.45)$ $10.14$ years $0.20 (0.15, 0.22)$ $0.38 (0.27, 0.53)$ $0.27 (0.15, 0.29)$ $15.17$ years $0.20 (0.15, 0.29)$ $0.20 (0.20, 0.44)$ $0.32 (0.20, 0.51)$ $15.77$ years $0.24 (0.15, 0.29)$ $0.29 (0.20, 0.44)$ $0.32 (0.20, 0.51)$ $15.77$ years $0.24 (0.15, 0.29)$ $0.27 (0.15, 0.20)$ $0.52 (0.20, 0.51)$ $15.77$ years $0.24 (0.15, 0.29)$ $0.27 (0.15, 0.20)$ $0.52 (0.20, 0.51)$ $10.05 SIS$ $1.74 (1.27, 2.39)$ $1.57 (1.20, 2.06)$ $1.55 (1.15, 2.10)$ $10.05 SIS$ $2.22 (1.51, 3.09)$ $2.22 (1.51, 3.09)$ $2.22 (1.51, 3.09)$ $10.05 SIS$ $1.57 (1.02, 0.6)$ $1.55 (1.15, 2.10)$ $1.55 (1.15, 2.10)$ $10.05 SIS$ $0.57 (0.39, 0.85)$ $0.58 (0.42, 0.80)$ $2.22 (1.51, 3.19)$ $10.05 SIS$ $0.57 (0.39, 0.85)$ $0.58 (0.42, 0.80)$ $0.58 (0.40, 0.86)$ $10.05 SIS$ $0.58 (0.42, 0.80)$ $0.58 (0.40, 0.86)$ $0.57 (0.50, 0.51)$ $10.05 SIS$ $0.58 (0.40, 0.51)$ $0.58 (0.40, 0.51)$ $0.58 (0.40, 0.50)$ $10.05 SIS$ $0.59 (0.51, 0.51)$ $0.28 (0.15, 0.51)$ $1.02 (0.55, 1.90)$ $10.05 SIS$ $0.59 (0.25, 1.00)$ $0.58 (0.46, 0.39)$ $0.20 (0.51, 0.51)$ $10.05 SIS$ $1.25 (0.72, 1.81)$ $1.20 (0.55, 1.95)$ $1.25 (0.72, 1.81)$ $10.05 (1.51, 0.51)$ $0.59$	Sex				
Age group         Ref           64 years         Ref           5-9 years         0.29 (0.20,0.42)   0.64 (0.46,0.89)   0.31 (0.22,0.45)   0.27 (0.19,0.39)   0.29 (0.20,0.41)   0.32 (0.20,0.51)   0.27 (0.19,0.39)   0.29 (0.20,0.41)   0.32 (0.20,0.51)   0.27 (0.19,0.39)   0.29 (0.20,0.41)   0.32 (0.20,0.51)   0.27 (0.19,0.39)   0.29 (0.20,0.41)   0.32 (0.20,0.51)   0.27 (0.19,0.39)   0.29 (0.20,0.41)   0.32 (0.20,0.51)   0.27 (0.19,0.39)   0.29 (0.20,0.41)   0.32 (0.20,0.51)   0.27 (0.19,0.39)   0.29 (0.20,0.41)   0.32 (0.20,0.51)   0.27 (0.19,0.39)   0.29 (0.20,0.41)   0.32 (0.20,0.51)   0.29 (0.20,0.41)   0.32 (0.20,0.51)   0.29 (0.20,0.41)   0.32 (0.20,0.51)   0.29 (0.20,0.41)   0.32 (0.20,0.51)   0.29 (0.20,0.41)   0.32 (0.20,0.51)   0.29 (0.20,0.41)   0.32 (0.20,0.51)   0.29 (0.20,0.41)   0.32 (0.20,0.51)   0.29 (0.20,0.41)   0.32 (0.20,0.51)   0.29 (0.20,0.41)   0.32 (0.20,0.51)   0.29 (0.20,0.41)   0.22 (1.55,0.31)   0.29 (0.20,0.41)   0.22 (1.55,0.31)   0.22 (1.55,0.31)   0.22 (1.55,0.31)   0.22 (1.55,0.31)   0.22 (1.55,0.31)   0.22 (1.55,0.31)   0.22 (1.55,0.31)   0.22 (1.55,0.31)   0.23 (0.21,0.51)   0.23 (0.21,0.51)   0.23 (0.21,0.51)   0.23 (0.21,0.51)   0.20 (0.25,1.90)   0.25 (0.25,1.90)   0.25 (0.25,1.90)   0.20 (0.25,1.90)   0.20 (0.25,1.90)   0.20 (0.25,1.90)   0.20 (0.25,1.90)   0.20 (0.25,1.90)   0.20 (0.25,1.90)   0.20 (0.25,1.90)   0.20 (0.25,1.90)   0.20 (0.25,1.90)   0.20 (0.25,1.90)   0.20 (0.25,1.90)   0.20 (0.25,1.90)   0.20 (0.25,1.90)   0.20 (0.25,1.90)   0.20 (0.25,1.90)   0.25 (0.25,1.90)   0	Male	Ref			
Ager           5-9 years         0.29 (0.20,0.42)           0.64 (0.46,0.59)           0.31 (0.22,0.45)             10-14 years         0.22 (0.15,0.32)           0.38 (0.27,0.53)           0.27 (0.19,0.39)             15-17 years         0.24 (0.15,0.39)           0.29 (0.20,0.41)           0.32 (0.20,0.51)             SES         0.24 (0.15,0.39)           0.29 (0.20,0.41)           0.32 (0.20,0.51)             SES         Ref         157 (1.20,2.06)           1.55 (1.15,2.10)             High SES         2.76 (1.91,3.99)           2.22 (1.61,3.06)           2.22 (1.5,3.19)             Nortransport         Ref         1.00 dende SES         0.57 (0.39,0.85)           0.58 (0.42,0.80)           0.58 (0.40,0.86)             Hoopital staus         0.57 (0.39,0.85)           0.58 (0.42,0.80)           0.58 (0.40,0.86)           0.50 (0.51,00)             Comorbidity staus         1.10 (0.67,1.80)           0.84 (0.56,1.26)           1.30 (0.80,2.10)             Hesi 1 comorbidity         0.24 (0.44,0.42)           0.28 (0.17,0.47)           0.30 (0.18,0.50)             I comorbidity staus         1.10 (0.67,1.50)           1.18 (0.76,1.49           0.78 (0.46,1.30)             Hesi 1 comorbidity         0.24 (0.14,0.42)           0.28 (0.17,0.47)           0.30 (0.18,0.50)             I cot (5)         Ref	Female		0.78 (0.59,1.05)	0.56 (0.44,0.72)↓	0.90 (0.68,1.19)
9. years     0.29 (0.20,0.42)       0.64 (0.460.89)       0.31 (0.22,0.45)         16-14 years     0.22 (0.15,0.32)       0.28 (0.27,0.53)       0.22 (0.20,0.41)         15-17 years     0.24 (0.15,0.32)       0.29 (0.20,0.41)       0.32 (0.20,0.51)         SES     Intermediate     Intermediate     Intermediate       Subscription     Ref     Intermediate     Intermediate       Moderate SES     2.76 (1.91,3.99)       2.22 (1.61,3.06)       2.26 (1.51,3.19)         High SES     2.76 (1.91,3.99)       2.22 (1.61,3.06)       2.26 (1.51,3.19)         Moderate SES     1.74 (1.27,2.39)       1.57 (1.20,2.06)       1.55 (1.15,2.10)         High SES     2.76 (1.91,3.99)       2.22 (1.61,3.06)       2.22 (1.55,3.19)         Moderate SES     1.74 (1.27,2.39)       1.57 (1.20,2.06)       1.55 (1.15,2.10)         High SES     2.76 (1.91,3.99)       2.22 (1.61,3.06)       2.22 (1.55,3.19)         Moderate SES     Ref     Intermediate     Intermediate       Hongital tatus     Intermediate     Intermediate     Intermediate       Compital tatus     Intermediate     Intermediate     Intermediate       Alteast I concorbidity States     Intermediate     Intermediate     Intermediate       Ide Gelfo     0.87 (0.52,1.50)       Intermediate     Intermediate	Age group				
10-14 years       0.22 (0.15,0.32)         0.38 (0.27,0.5)         0.22 (0.20,0.4)         0.32 (0.20,0.5)           15-17 years       0.24 (0.15,0.39)         0.29 (0.20,0.4)         0.32 (0.20,0.5)           SES         Low SES       Ref         Moderate SES       1.74 (1.27,2.39)         1.57 (1.20,2.0)         1.55 (1.15,1.0)           High SES       2.76 (1.91,3.99)         2.22 (1.61,3.0)         2.22 (1.55,3.19)           Moderate SES       1.74 (1.27,2.39)         1.57 (1.20,2.0)         1.55 (1.15,2.10)           High SES       2.76 (1.91,3.99)         2.22 (1.61,3.0)         2.22 (1.55,3.19)           Moderate SES       1.76 (1.27,2.39)         0.58 (0.42,0.80)         0.58 (0.40,0.86)           Mortansport       Ref	0-4 years	Ref			
15-17 years       0.24 (0.15,0.39)       0.29 (0.20,0.41)       0.32 (0.20,0.51)         SES         Low SES       Ref         Moderate SES       1.74 (1.27,2.39)       1.57 (1.20,2.06)       1.55 (1.15,2.10)         High SES       2.76 (1.91,3.9)       2.22 (1.61,3.06)       2.22 (1.55,3.19)         Mochanis       2.22 (1.61,3.06)       2.22 (1.55,3.19)       2.22 (1.55,3.19)         Mochanison       Ref       1.00 (0.57,1.03,0.05)       0.58 (0.42,0.80)       0.58 (0.40,0.86)         Hospital status       E       1.10 (0.67,1.80)       0.84 (0.56,1.26)       1.30 (0.80,2.10)         Comorbidity status       1.10 (0.67,1.80)       0.84 (0.56,1.26)       1.30 (0.80,2.10)         St Tertiles       1.00 (0.52,1.95)       0.25 (0.17,0.47)       0.30 (0.18,0.50)         Hody (5.1)       0.87 (0.50,1.51)       1.18 (0.76,1.84)       0.78 (0.46,1.30)         High (17-1)       1.00 (0.52,1.95)       1.25 (0.72,2.18)       1.02 (0.55,1.90)         Hoti Intentional       Ref       1.02 (0.55,1.90)       0.26 (0.46,2.40)       0.77 (0.30, 1.97)         Hoti Intentional       Ref       1.15 (0.64,2.40)       0.77 (0.30, 1.97)       1.02 (0.55, 1.90)       1.02 (0.55, 1.90)       1.02 (0.55, 1.90)       1.02 (0.55, 1.90)       1.02 (0.55, 1.90)       1.02	5-9 years		0.29 (0.20,0.42) ↓	0.64 (0.46,0.89) ↓	0.31 (0.22,0.45) ↓
SES         Ref           Low SES         Ref           Moderate SES         1.74 (1.27,2.39) [         1.57 (1.20,2.06) [         1.55 (1.15,2.10) [           High SES         2.76 (1.91,3.99) [         2.22 (1.61,3.06) [         2.22 (1.55,3.19) [           Mochanism         2.76 (1.91,3.99) [         2.22 (1.61,3.06) [         2.22 (1.55,3.19) [           Noa-transport         Ref         1.00 - 1.00 - 0.00 [         0.58 (0.42,0.80) [         0.58 (0.40,0.86) [           Hospital status         0.57 (0.39,0.85) [         0.58 (0.42,0.80) [         0.58 (0.40,0.86) [         0.58 (0.40,0.86) [           Hospital admission         Ref         1.00 (0.67,1.80) [         0.58 (0.42,0.80) [         0.58 (0.40,0.85) [           Comorbidity status         1.10 (0.67,1.80) [         0.34 (0.56,1.26) [         1.30 (0.80,2.10) [           Comorbidity status         1.10 (0.67,1.80) [         0.30 (0.18,0.50) [         1.30 (0.80,2.10) [           St Tertiles         1.10 (0.67,1.50) [         0.28 (0.17,0.47,1 ] [         0.30 (0.18,0.50) [           Hog (5.1)         Ref         1.00 (0.52,1.50) [         1.18 (0.76,1.84) [         0.78 (0.46,1.30) [           Hig (17+) (16, 10.1) [         1.02 (0.52,1.00) [         1.02 (0.55,1.00) [         1.02 (0.55,1.00) [         0.35 (0.16,0.74) [           Hoti (16,	10-14 years		0.22 (0.15,0.32)↓	0.38 (0.27,0.53) ↓	0.27 (0.19,0.39) ↓
Lew SESRefModerate SES1.74 (1.27,2.39 )1.57 (1.20,2.06 )1.55 (1.15,2.10 )High SES2.76 (1.91,3.99 )2.22 (1.61,3.06 )2.22 (1.55,3.19 )Mochanism2.76 (1.91,3.99 )2.22 (1.61,3.06 )2.22 (1.55,3.19 )MochanismoRef1.00 Ass (0.42,0.80 )0.58 (0.40,0.86 )HondratasportRef1.00 Ass (0.42,0.80 )0.58 (0.40,0.86 )Hondratastats1.10 (0.67,1.80)0.84 (0.56,1.20)1.30 (0.80,2.10)Compilal admissionRef1.30 (0.80,2.10)1.30 (0.80,2.10)Chast I comorbidity attas0.24 (0.14,0.42)  0.28 (0.17,0.47)  0.30 (0.18,0.50)  Ka I comorbidity attas1.10 (0.57,1.50)0.25 (0.12,0.17,0.1)0.30 (0.18,0.50)  Ka I comorbidity0.87 (0.50,1.51)1.18 (0.76,1.84)0.78 (0.46,1.30)High (17+)1.00 (0.52,1.50)1.25 (0.72,2.18)1.02 (0.55,1.90)High (17+)0.33 (0.14,0.79)  0.50 (0.25,1.00)0.35 (0.16,0.71,1.10)High (17+)0.53 (0.16,0.71,1.10)0.50 (0.25,1.00)0.21 (0.51,1.90)High (17+)0.53 (0.16,0.71,1.10)0.50 (0.25,1.00)0.35 (0.16,0.71,1.10)High (17+)0.53 (0.16,0.71,1.10)0.50 (0.25,1.00)0.53 (0.16,0.71,1.10)High (17+)0.53 (0.16,0.71,1.10)0.50 (0.25,1.00)0.53 (0.16,0.71,1.10)High (17+)0.53 (0.16,0.71,1.10)0.50 (0.25,1.00)0.53 (0.16,0.71,1.10)High (17+)0.53 (0.16,0.71,1.10)0.50 (0.25,1.00)0.53 (0.16,0.71,1.10)High (17+)0.53 (0.16,0.71,1.	15-17 years		0.24 (0.15,0.39) ↓	0.29 (0.20,0.44) ↓	0.32 (0.20,0.51) ↓
Moderate SES $1.74 (1.27, 3.9)$ ; $1.57 (1.20, 2.06)$ ; $1.55 (1.15, 2.10)$ ;High SES $2.76 (1.91, 3.99)$ ; $2.22 (1.61, 3.06)$ ; $2.22 (1.55, 3.19)$ ;Mochanism $Ref$ $Ref$ $Ref$ Tansport $0.57 (0.39, 0.85)$ ; $0.58 (0.42, 0.80)$ ; $0.58 (0.40, 0.86)$ ;Hospital status $Ref$ $1.10 (0.67, 1.80)$ $0.84 (0.56, 1.26)$ Comorbidity status $1.10 (0.67, 1.80)$ $0.84 (0.56, 1.26)$ $1.30 (0.80, 2.10)$ Comorbidity status $0.24 (0.14, 0.42)$ ; $0.28 (0.17, 0.47)$ ; $0.30 (0.18, 0.50)$ ;St Tertiles $0.57 (0.50, 1.51)$ $1.18 (0.76, 1.84)$ $0.78 (0.46, 1.30)$ High (17+) $1.00 (0.52, 1.95)$ $1.25 (0.72, 2.18)$ $1.02 (0.55, 1.90)$ ;High (17+) $0.00 (0.52, 1.95)$ $1.25 (0.72, 2.18)$ $0.78 (0.46, 1.30)$ High (17+) $0.50 (0.25, 1.00)$ $0.57 (0.30, 1.51)$ $1.18 (0.76, 1.84)$ Not intentional $Ref$ $0.77 (0.30, 1.51)$ $0.77 (0.30, 1.51)$ Intent calk nown $0.54 (0.19, 1.48)$ $0.16 (0.46, 2.90)$ $0.77 (0.30, 1.97)$ Intent ont known $Ref$ $1.16 (0.46, 2.90)$ $0.77 (0.30, 1.97)$ Homh $Ref$ $1.16 (0.46, 2.90)$ $0.77 (0.30, 1.97)$ I Month $Ref$ $1.16 (0.46, 2.90)$ $0.77 (0.30, 1.97)$ I Month $Ref$ $1.16 (0.46, 2.90)$ $0.77 (0.30, 1.97)$ I Month $Ref$ $1.16 (0.46, 2.90)$ $0.77 (0.30, 1.97)$ I Month $Ref$ $1.16 (0.46, 2.90)$ $0.77 (0.30, 1.97)$ I Month $Ref$ <td>SES</td> <td></td> <td></td> <td></td> <td></td>	SES				
High SES       2,76 (1,91,3,99) *       2,22 (1,61,3,06) *       2,22 (1,55,3,19) *         Mechanism       Ref	Low SES	Ref			
NechanismRefTansport0.57 (0.39,0.85) [0.58 (0.42,0.80) [0.58 (0.40,0.8) [Hopital stats0.57 (0.39,0.85) [0.58 (0.42,0.80) [0.58 (0.40,0.8) [Hopital stats0.57 (0.39,0.85) [0.58 (0.42,0.80) [0.58 (0.40,0.8) [Hopital admissionRef1.00 (0.67,1.80) [0.84 (0.56,1.20) [0.30 (0.18,0.50) [Chorobidity stats0.24 (0.14,0.42) [0.28 (0.17,0.47) [0.30 (0.18,0.50) [0.30 (0.18,0.50) [Hale al comorbidity0.24 (0.14,0.42) [0.28 (0.17,0.47) [0.30 (0.18,0.50) [0.30 (0.18,0.50) [Hale al comorbidity0.24 (0.14,0.42) [0.28 (0.17,0.47) [0.30 (0.18,0.50) [0.30 (0.18,0.50) [Hale al comorbidity0.24 (0.14,0.42) [0.28 (0.17,0.47) [0.30 (0.18,0.50) [0.30 (0.18,0.50) [Hale al comorbidity0.24 (0.14,0.42) [0.28 (0.17,0.47) [0.30 (0.46,1.30) [0.37 (0.40,1.30) [0.37 (0.40,1.30) [Hale (1.5)0.30 (0.14,0.79) [0.50 (0.25,1.00) [0.35 (0.16,0.74) [0.30 (0.14,0.79) [0.30 (0.16,0.74) [Hand IndonRef1.16 (0.46,2.90) [0.77 (0.30,1.97) [0.31 (0.10,0.71) [0.31 (0.10,0.71) [0.31 (0.10,0.71) [Hand IndonRef1.16 (0.16,0.14,0.10) [0.31 (0.16,0.14,0.10) [0.31 (0.16,0.14,0.10) [0.31 (0.16,0.14,0.10) [0.31 (0.16,0.14,0.10) [0.31 (0.16,0.14,0.10) [Hand IndonRef1.16 (0.16,0.14,0.10) [0.31 (0.16,0.14,0.10) [0.31 (0.16,0.14,0.10) [0.31 (0.16,0.14,0.10) [0.31 (0.16,0.14,0.10) [Hand Indon	Moderate SES		1.74 (1.27,2.39) ↑	1.57 (1.20,2.06) ↑	1.55 (1.15,2.10) ↑
Non-transport         Ref           Transport         0.57 (0.39,0.85)         0.58 (0.42,0.80)         0.58 (0.40,0.86)           Hospital status         E <td>High SES</td> <td></td> <td>2.76 (1.91,3.99) ↑</td> <td>2.22 (1.61,3.06) ↑</td> <td>2.22 (1.55,3.19) ↑</td>	High SES		2.76 (1.91,3.99) ↑	2.22 (1.61,3.06) ↑	2.22 (1.55,3.19) ↑
Transport       0.57 (0.39,0.85) ↓       0.58 (0.42,0.80) ↓       0.58 (0.40,0.86) ↓         Hospital status       EU       EU       EU         ED only       Ref       1.00 (0.67,1.80)       0.84 (0.56,1.20)       1.30 (0.80,2.10)         Comorbidity status       0.24 (0.14,0.21) ↓       0.28 (0.17,0.47) ↓       0.30 (0.18,0.50) ↓         At least 1 comorbidity       0.24 (0.14,0.21) ↓       0.28 (0.17,0.47) ↓       0.30 (0.18,0.50) ↓         At least 1 comorbidity       0.24 (0.14,0.21) ↓       0.28 (0.17,0.47) ↓       0.30 (0.18,0.50) ↓         St Tertiles         0.27 (0.30,1.51)       1.18 (0.76,1.84)       0.78 (0.46,1.30)         Hoigh (5 <sup>+</sup> ) ↓       1.00 (0.52,1.95) ↓       1.25 (0.72,2.18) ↓       1.02 (0.55,1.90)       0.78 (0.46,1.30)         Hoigh (5 <sup>+</sup> ) ↓       1.00 (0.52,1.95) ↓       1.25 (0.72,2.18) ↓       1.02 (0.55,1.90)       0.78 (0.46,1.30)         Hoigh (5 <sup>+</sup> ) ↓       1.00 (0.52,1.95) ↓       1.25 (0.72,2.18) ↓       1.02 (0.55,1.90)       0.57 (0.40,1.91)         Hotintorional       Ref        1.02 (0.51,1.91) ↓       0.50 (0.25,1.00) ↓       0.57 (0.30,1.97) ↓         Hotintorional       Ref         1.16 (0.46,2.90) ↓       0.77 (0.30,1.97) ↓         Hotintorional       Ref </td <td>Mechanism</td> <td></td> <td></td> <td></td> <td></td>	Mechanism				
Hospital status       Ref         ED only       Ref         Hospital admission       1.10 (0.67,1.80)       0.84 (0.56,1.26)       1.30 (0.80,2.10)         Comorbidity status       0.24 (0.14,0.42) ↓       0.28 (0.17,0.47) ↓       0.30 (0.18,0.50) ↓         St least 1 comorbidity       0.24 (0.14,0.42) ↓       0.28 (0.17,0.47) ↓       0.30 (0.18,0.50) ↓         At least 1 comorbidity       0.24 (0.14,0.42) ↓       0.28 (0.17,0.47) ↓       0.30 (0.18,0.50) ↓         St fertiles             Low (<5)	Non-transport	Ref			
ED only       Ref         Hospital admission       1.10 (0.67,1.80)       0.84 (0.56,1.26)       1.30 (0.80,2.10)         Comorbidity status       0.24 (0.14,0.22)       0.28 (0.17,0.47)       0.30 (0.18,0.50)         At least 1 comorbidity       0.24 (0.14,0.22)       0.28 (0.17,0.47)       0.30 (0.18,0.50)         ST Fertiles             Low (<5)	Transport		0.57 (0.39,0.85) ↓	0.58 (0.42,0.80) ↓	0.58 (0.40,0.86) ↓
Hospital admission       1.10 (0.67,1.80)       0.84 (0.56,1.26)       1.30 (0.80,2.10)         Comorbidity status       0.24 (0.14,0.42) ↓       0.28 (0.7,0.47) ↓       0.30 (0.18,0.50) ↓         At least 1 comorbidity       0.24 (0.14,0.42) ↓       0.28 (0.7,0.47) ↓       0.30 (0.18,0.50) ↓         ISS Tertiles             Low (<5)	Hospital status				
Comorbidity status       0.24 (0.14,0.42) $\downarrow$ 0.28 (0.17,0.47) $\downarrow$ 0.30 (0.18,0.50) $\downarrow$ IAS Tertiles       East       East<	ED only	Ref			
At least 1 comorbidity $0.24 (0.14, 0.42) \downarrow$ $0.28 (0.17, 0.47) \downarrow$ $0.30 (0.18, 0.50) \downarrow$ ISS Tertiles       ISS (0.16, 0.13)       ISS (0.16, 0.13)       ISS (0.16, 0.14) $\downarrow$ ISS (0.16, 0.14)	Hospital admission		1.10 (0.67,1.80)	0.84 (0.56,1.26)	1.30 (0.80,2.10)
ISS Tertiles         Low (<5)	Comorbidity status				
Low (<5)       Ref         Mid (5-16)       0.87 (0.50, 1.51)       1.18 (0.76, 1.84)       0.78 (0.46, 1.30)         High (17+)       1.00 (0.52, 1.95)       1.25 (0.72, 2.18)       1.02 (0.55, 1.90)         Intent       1.00 (0.52, 1.95)       1.25 (0.72, 2.18)       1.02 (0.55, 1.90)         Intentional       Ref       1.02 (0.55, 1.90)       0.50 (0.25, 1.00)       0.55 (0.16, 0.74) ↓         Intent not known       0.54 (0.19, 1.48)       1.16 (0.46, 2.90)       0.77 (0.30, 1.97)         I Month       Ref       1.16 (0.46, 2.90)       0.77 (0.30, 1.97)         S Adonths       7.68 (5.22, 11.29) ↑       8.10 (5.38, 12.20) ↑       3.90 (2.81, 5.43) ↑         6 Months       3.82 (2.59, 5.65) ↑       5.48 (3.62, 8.28) ↑       2.69 (1.91, 3.80) ↑         12 Months       8.23 (5.67, 11.94) ↑       1.98 (7.98, 17.96) ↑       4.05 (2.94, 5.58) ↑	At least 1 comorbidity		0.24 (0.14,0.42)↓	0.28 (0.17,0.47)↓	0.30 (0.18,0.50) ↓
Mid (5-16)       0.87 (0.50,1.51)       1.18 (0.76,1.84)       0.78 (0.46,1.30)         High (17+)       1.00 (0.52,1.95)       1.25 (0.72,2.18)       1.02 (0.55,1.90)         Intent             Not intentional       Ref            Intent not known       0.53 (0.14,0.79) ↓       0.50 (0.25,1.00)       0.35 (0.16,0.74) ↓         Intent not known       0.54 (0.19,1.48)       1.16 (0.46,2.90)       0.77 (0.30,1.97)         I Month       Ref            1 Month       Ref             1 Month       8.10 (5.38,12.20) ↑       3.90 (2.81,5.43) ↑          6 Months       3.82 (2.59,5.65) ↑       5.48 (3.62,8.28) ↑       2.69 (1.91,3.80) ↑         1 2 Months       8.23 (5.67,11.94) ↑       11.98 (7.98,17.96) ↑       4.05 (2.94,5.58) ↑	ISS Tertiles				
High (17+)     1.00 (0.52,1.95)     1.25 (0.72,2.18)     1.02 (0.55,1.90)       Intent     Ref        Intentional     0.33 (0.14,0.79) ↓     0.50 (0.25,1.00)     0.35 (0.16,0.74) ↓       Intent not known     0.54 (0.19,1.48)     1.16 (0.46,2.90)     0.77 (0.30,1.97)       Time          1 Month     Ref        3,4 Months     7.68 (5.22,11.29) ↑     8.10 (5.38,12.20) ↑     3.90 (2.81,5.43) ↑       6 Months     3.82 (2.59,5.65) ↑     5.48 (3.62,8.28) ↑     2.69 (1.91,3.80) ↑       12 Months     8.23 (5.67,11.94) ↑     11.98 (7.98,17.96) ↑     4.05 (2.94,5.58) ↑	Low (<5)	Ref			
Intent       Ref         Intentional       0.33 (0.14,0.79)↓       0.50 (0.25,1.00)       0.35 (0.16,0.74)↓         Intent not known       0.54 (0.19,1.48)       1.16 (0.46,2.90)       0.77 (0.30,1.97)         Time       1       1       1.16 (0.46,2.90)       0.77 (0.30,1.97)         3,4 Months       7.68 (5.22,11.29)↑       8.10 (5.38,12.20)↑       3.90 (2.81,5.43)↑         6 Months       3.82 (2.59,5.65)↑       5.48 (3.62,8.28)↑       2.69 (1.91,3.80)↑         12 Months       8.23 (5.67,11.94)↑       11.98 (7.98,17.96)↑       4.05 (2.94,5.58)↑	Mid (5-16)		0.87 (0.50,1.51)	1.18 (0.76,1.84)	0.78 (0.46,1.30)
Not intentional       Ref         Intentional       0.33 (0.14,0.79) ↓       0.50 (0.25,1.00)       0.35 (0.16,0.74) ↓         Intent not known       0.54 (0.19,1.48)       1.16 (0.46,2.90)       0.77 (0.30,1.97)         Time       Image: Comparison of the state of	High (17+)		1.00 (0.52,1.95)	1.25 (0.72,2.18)	1.02 (0.55,1.90)
Intentional       0.33 (0.14,0.79)↓       0.50 (0.25,1.00)       0.35 (0.16,0.74)↓         Intent not known       0.54 (0.19,1.48)       1.16 (0.46,2.90)       0.77 (0.30,1.97)         Time       End to the second secon	Intent				
Intent not known       0.54 (0.19,1.48)       1.16 (0.46,2.90)       0.77 (0.30,1.97)         Time       Image: Constraint of the state of the sta	Not intentional	Ref			
Time       Ref         1 Month       Ref         3,4 Months       7.68 (5.22,11.29) ↑       8.10 (5.38,12.20) ↑       3.90 (2.81,5.43) ↑         6 Months       3.82 (2.59,5.65) ↑       5.48 (3.62,8.28) ↑       2.69 (1.91,3.80) ↑         12 Months       8.23 (5.67,11.94) ↑       11.98 (7.98,17.96) ↑       4.05 (2.94,5.58) ↑	Intentional		0.33 (0.14,0.79) ↓	0.50 (0.25,1.00)	0.35 (0.16,0.74) ↓
I Month       Ref         3,4 Months       7.68 (5.22,11.29) ↑       8.10 (5.38,12.20) ↑       3.90 (2.81,5.43) ↑         6 Months       3.82 (2.59,5.65) ↑       5.48 (3.62,8.28) ↑       2.69 (1.91,3.80) ↑         12 Months       8.23 (5.67,11.94) ↑       11.98 (7.98,17.96) ↑       4.05 (2.94,5.58) ↑	Intent not known		0.54 (0.19,1.48)	1.16 (0.46,2.90)	0.77 (0.30,1.97)
3,4 Months       7.68 (5.22,11.29) ↑       8.10 (5.38,12.20) ↑       3.90 (2.81,5.43) ↑         6 Months       3.82 (2.59,5.65) ↑       5.48 (3.62,8.28) ↑       2.69 (1.91,3.80) ↑         12 Months       8.23 (5.67,11.94) ↑       11.98 (7.98,17.96) ↑       4.05 (2.94,5.58) ↑	Time				
6 Months       3.82 (2.59,5.65) ↑       5.48 (3.62,8.28) ↑       2.69 (1.91,3.80) ↑         12 Months       8.23 (5.67,11.94) ↑       11.98 (7.98,17.96) ↑       4.05 (2.94,5.58) ↑	1 Month	Ref			
12 Months 8.23 (5.67,11.94) ↑ 11.98 (7.98,17.96) ↑ 4.05 (2.94,5.58) ↑	3,4 Months		7.68 (5.22,11.29) ↑	8.10 (5.38,12.20) ↑	3.90 (2.81,5.43) ↑
	6 Months		3.82 (2.59,5.65) ↑	5.48 (3.62,8.28) ↑	2.69 (1.91,3.80) ↑
24 Months 9.18 (6.23,13.52) ↑ 13.78 (9.08,20.92) ↑ 4.64 (3.31,6.51) ↑	12 Months		8.23 (5.67,11.94) ↑	11.98 (7.98,17.96) ↑	4.05 (2.94,5.58) ↑
	24 Months		9.18 (6.23,13.52) ↑	13.78 (9.08,20.92) ↑	4.64 (3.31,6.51) ↑

## Injury (Any)

N33, N34 Spinal cord lesion	0.08 (0.02,0.29) ↓	0.07 (0.02,0.27) ↓	0.10 (0.03,0.35) ↓
N19, N26 Fracture of femur	0.51 (0.27,0.96) ↓	0.29 (0.16,0.53) ↓	0.92 (0.50,1.69)
N20 Fracture of patella, tibia, fibula, or ankle	0.33 (0.16,0.66) ↓	0.25 (0.14,0.46) ↓	0.45 (0.22,0.88) ↓
N28 Moderate to severe traumatic brain injury	0.57 (0.37,0.89) ↓	0.77 (0.53,1.12)	0.57 (0.38,0.88) ↓
N37, N17, N18 Crush injury, fracture foot/hand bones	0.68 (0.30,1.53)	0.92 (0.43,1.95)	0.69 (0.32,1.48)
N43 Internal haemorrhage in abdomen or pelvis	0.95 (0.56,1.61)	1.02 (0.64,1.62)	1.00 (0.61,1.65)
N27 Minor traumatic brain injury	0.78 (0.56,1.10)	0.80 (0.60,1.05)	0.76 (0.54,1.05)
N21 Fracture of pelvis	0.44 (0.21,0.92)↓	0.30 (0.16,0.58) ↓	0.63 (0.33,1.21)
N42 Severe chest Injury	0.50 (0.29,0.86) ↓	0.65 (0.41,1.04)	0.55 (0.32,0.92) ↓
N8, N9, N10 Burns (including lower airways)	0.38 (0.13,1.15)	0.32 (0.13,0.81) ↓	0.53 (0.20,1.38)
N25 Fracture of vertebral column	0.37 (0.18,0.77) ↓	0.43 (0.23,0.84) ↓	0.43 (0.22,0.83) ↓
N35, N36 Asphyxiation, Non-fatal submersion	0.08 (0.02,0.38) ↓	0.46 (0.12,1.71)	0.11 (0.03,0.42) ↓
N40, N44 Contusion, open wound	1.02 (0.71,1.46)	1.20 (0.89,1.61)	0.92 (0.64,1.31)
N14 Other injuries of muscle & tendon & other dislocations	0.52 (0.31,0.88) ↓	0.61 (0.38,0.96) ↓	0.54 (0.32,0.91) ↓
N15 Fracture of clavicle, scapula, or humerus	0.77 (0.49,1.21)	0.71 (0.49,1.02)	0.70 (0.45,1.09)
N22 Fracture of radius or ulna	0.78 (0.49,1.24)	0.70 (0.48,1.04)	0.81 (0.51,1.26)
Other injuries	0.55 (0.39,0.78) ↓	0.68 (0.51,0.91)↓	0.53 (0.38,0.74) ↓
Number of Observations -	4,952	5,296	2,263
Number of Groups -	1,963	2,.038	2,038

General Linear Model (GLM) mixed effects ordinal logistic models with random intercepts for participants and robust standard errors, adjusted for VIBES-Junior cohort. PedsQL scores across time points initially categorised into three, four and five groups. Five group model chosen (0-<70, 70-<85, 85-<90, 90-<100, 100) to reveal the time variation between participants with mid to high PedsQL scores and score of 100. Model accounts for the ceiling/floor effects of the ordinal outcome and allows response variables with different distributions. <sup>a</sup>Significant results in bold. Adj.=Adjusted; OR=Odds Ratio. ^Injury groupings based on GBD 2013 classifications with reference = Not have injury type, and the order was based on GBD 2013 order. Shaded cell indicates different result to linear mixed effects model. ↓ refers to significantly lower odds of high PedsQL score compared to the reference, ↑ refers to significantly higher odds of high PedsQL score compared to the reference.