

**Supplemental Table 1: Life Satisfaction Adjusted Model Results**

<b>SWLS (Life Satisfaction)</b>					
<b>Covariates</b>	<b>Estimate</b>	<b>SE</b>	<b>95% CI</b>	<b>p-value</b>	<b>ES</b>
<b>Chronic Pain Group</b>					
Current vs Past Pain	-1.53	0.39	(-2.29, -0.77)	<0.001	0.22
Current vs No Pain	-2.60	0.28	(-3.15, -2.04)	<0.001	0.37
Past vs No Pain	-1.07	0.39	(-1.83, -0.30)	0.006	0.15
<b>Follow-Up Period</b>					
Year 1 vs Year 2	-0.03	0.45	(-0.91, 0.86)	0.955	0.004
Year 1 vs Year 5	-1.41	0.40	(-2.20, -0.61)	<0.001	0.20
Year 1 vs Year 10	-1.26	0.43	(-2.10, -0.42)	0.003	0.18
Year 1 vs Year 15+	-0.87	0.41	(-1.67, -0.07)	0.033	0.12
Year 2 vs Year 5	-1.38	0.43	(-2.23, -0.53)	0.002	0.19
Year 2 vs Year 10	-1.23	0.46	(-2.13, -0.34)	0.007	0.17
Year 2 vs Year 15+	-0.85	0.44	(-1.70, 0.01)	0.052	0.12
Year 5 vs Year 10	0.15	0.40	(-0.63, 0.93)	0.710	0.02
Year 5 vs Year 15+	0.53	0.37	(-0.19, 1.26)	0.151	0.07
Year 10 vs Year 15+	0.39	0.38	(-0.36, 1.13)	0.310	0.05
<b>Age (Years)</b>	0.003	0.01	(-0.02, 0.02)	0.777	0.001
<b>Sex (Male vs Female)</b>	-0.67	0.29	(-1.24, -0.09)	0.023	0.09
<b>White Race (Yes vs No)</b>	-0.32	0.52	(-1.34, -0.70)	0.534	0.05
<b>Black Race (Yes vs No)</b>	-1.52	0.56	(-2.62, -0.42)	0.007	0.21
<b>Other Race (Yes vs No)</b>	-0.41	0.55	(-1.48, 0.67)	0.459	0.06
<b>Ethnicity (Yes vs No)</b>	0.36	0.44	(-0.49, 1.22)	0.408	0.05
<b>Marital Status</b>					
Single/Other vs Married	-2.75	0.33	(-3.40, -2.09)	<0.001	0.39
Single/Other vs Sep/Div/Wid	0.94	0.36	(0.22, 1.65)	0.010	0.13
Married vs Sep/Div/Wid	3.68	0.33	(3.04, 4.33)	<0.001	0.52
<b>Level of Education</b>					
Less than HS vs HS/Other	-0.68	0.44	(-1.54, 0.17)	0.118	0.10
Less than HS vs Some College/Associate	-0.82	0.41	(-1.63, 0.01)	0.049	0.12
Less than HS vs Bachelor or Higher	-1.88	0.44	(-2.75, -1.01)	<0.001	0.27
HS/Other vs Some College/Associate	-0.13	0.34	(-0.80, 0.54)	0.694	0.02
HS/Other vs Bachelor or Higher	-1.20	0.37	(-1.91, -0.48)	0.001	0.17
Some College/Associate vs Bachelor or Higher	-1.06	0.33	(-1.70, -0.42)	0.001	0.15

<b>Employment Status</b>					
Employed/Student vs Retired	1.58	0.35	(0.90, 2.26)	<0.001	0.22
Employed/Student vs Unemployed	2.52	0.42	(1.70, 3.33)	<0.001	0.36
Employed/Student vs Other	1.65	0.60	(0.47, 2.83)	0.006	0.23
Retired vs Unemployed	0.93	0.44	(0.07, 1.79)	0.034	0.13
Retired vs Other	0.07	0.62	(-1.14, 1.29)	0.908	0.01
Unemployed vs Other	-0.86	0.67	(-2.18, 0.45)	0.199	0.12
<b>Cause of Injury</b>					
Vehicular vs Fall	-0.35	0.34	(-1.02, 0.31)	0.298	0.05
Vehicular vs Violence	-0.02	0.40	(-0.81, 0.78)	0.967	0.003
Vehicular vs Sports/Other	-0.97	0.41	(-1.76, -0.17)	0.017	0.14
Fall vs Violence	0.34	0.47	(-0.58, 1.26)	0.474	0.05
Fall vs Sports/Other	-0.62	0.46	(-1.52, 0.29)	0.181	0.09
Violence vs Sports/Other	-0.95	0.52	(-1.97, 0.06)	0.066	0.13
<b>FIM Motor</b>	0.09	0.02	(0.05, 0.12)	<0.001	0.01
<b>FIM Cognition</b>	0.44	0.04	(0.36, 0.53)	<0.001	0.06

SWLS = Satisfaction with Life Scale; SE = Standard Error; CI = Confidence Interval; Sep/Div/Wid = Separated / Divorced / Widowed; HS = High School; Estimates represent adjusted mean differences in outcome between groups for categorical covariates and adjusted slopes for categorical covariates; Root Mean Square Error (RMSE) = 7.09, ES = Effect Size (Estimate difference/RMSE) with ES  $\geq$  0.6 shaded in grey.

**Supplemental Table 2: PTSD Symptoms Adjusted Model Results**

<b>PCL-5 (PTSD Symptoms)</b>					
<b>Covariates</b>	<b>Estimate</b>	<b>SE</b>	<b>95% CI</b>	<b>p-value</b>	<b>ES</b>
<b>Chronic Pain Group</b>					
Current vs Past Pain	7.37	0.71	(5.98, 8.77)	<0.001	0.54
Current vs No Pain	10.55	0.52	(9.54, 11.56)	<0.001	0.78
Past vs No Pain	3.18	0.71	(1.78, 4.57)	<0.001	0.23
<b>Follow-Up Period</b>					
Year 1 vs Year 2	0.03	0.85	(-1.62, 1.69)	0.969	0.002
Year 1 vs Year 5	0.58	0.74	(-0.87, 2.03)	0.437	0.04
Year 1 vs Year 10	1.46	0.78	(-0.07, 2.99)	0.062	0.11
Year 1 vs Year 15+	3.04	0.74	(1.58, 4.49)	<0.001	0.22
Year 2 vs Year 5	0.54	0.82	(-1.06, 2.14)	0.507	0.04
Year 2 vs Year 10	1.42	0.85	(-0.24, 3.09)	0.094	0.10
Year 2 vs Year 15+	3.00	0.81	(1.41, 4.60)	<0.001	0.22
Year 5 vs Year 10	0.88	0.73	(-0.55, 2.31)	0.226	0.06
Year 5 vs Year 15+	2.46	0.68	(1.14, 3.79)	<0.001	0.18
Year 10 vs Year 15+	1.58	0.69	(0.23, 2.93)	0.022	0.12
<b>Age (Years)</b>	-0.14	0.02	(-0.18, -0.10)	<0.001	0.01
<b>Sex (Male vs Female)</b>	-1.52	0.53	(-2.57, -0.48)	0.004	0.11
<b>White Race (Yes vs No)</b>	0.07	0.95	(-1.80, 1.94)	0.942	0.01
<b>Black Race (Yes vs No)</b>	1.80	1.03	(-0.22, 3.82)	0.080	0.13
<b>Other Race (Yes vs No)</b>	1.29	1.02	(-0.72, 3.30)	0.207	0.09
<b>Ethnicity (Yes vs No)</b>	1.34	0.80	(-0.22, 2.90)	0.093	0.10
<b>Marital Status</b>					
Single/Other vs Married	1.34	0.61	(0.15, 2.53)	0.028	0.10
Single/Other vs Sep/Div/Wid	-0.99	0.67	(-2.30, 0.31)	0.136	0.07
Married vs Sep/Div/Wid	-2.33	0.61	(-3.52, -1.15)	<0.001	0.17
<b>Level of Education</b>					
Less than HS vs HS/Other	1.44	0.79	(-0.10, 2.99)	0.068	0.11
Less than HS vs Some College/Associate	0.31	0.75	(-1.16, 1.77)	0.683	0.02
Less than HS vs Bachelor or Higher	0.10	0.81	(-1.48, 1.68)	0.900	0.01
HS/Other vs Some College/Associate	-1.14	0.62	(-2.36, 0.09)	0.069	0.08
HS/Other vs Bachelor or Higher	-1.34	0.67	(-2.65, -0.02)	0.046	0.10
Some College/Associate vs Bachelor or Higher	-0.20	0.60	(-1.38, 0.97)	0.735	0.01

<b>Employment Status</b>					
Employed/Student vs Retired	0.45	0.64	(-0.80, 1.70)	0.479	0.03
Employed/Student vs Unemployed	-1.65	0.76	(-3.15, -0.16)	0.030	0.12
Employed/Student vs Other	1.31	1.10	(-0.85, 3.47)	0.233	0.10
Retired vs Unemployed	-2.10	0.81	(-3.69, -0.52)	0.009	0.15
Retired vs Other	0.86	1.14	(-1.37, 3.09)	0.447	0.06
Unemployed vs Other	2.97	1.23	(0.56, 5.38)	0.016	0.22
<b>Cause of Injury</b>					
Vehicular vs Fall	-0.70	0.63	(-1.92, 0.53)	0.266	0.05
Vehicular vs Violence	-2.95	0.75	(-4.43, -1.47)	<0.001	0.22
Vehicular vs Sports/Other	-0.66	0.75	(-2.12, 0.81)	0.380	0.05
Fall vs Violence	-2.25	0.88	(-3.97, -0.54)	0.010	0.17
Fall vs Sports/Other	0.04	0.85	(-1.62, 1.71)	0.962	0.003
Violence vs Sports/Other	2.29	0.96	(0.41, 4.17)	0.017	0.17
<b>FIM Motor</b>	-0.002	0.03	(-0.06, 0.06)	0.948	0.0001
<b>FIM Cognition</b>	-1.65	0.08	(-1.81, -1.50)	<0.001	-0.12

PCL-5 = Posttraumatic Stress Disorder Checklist for DSM-5 ; SE = Standard Error; CI = Confidence Interval; Sep/Div/Wid = Separated / Divorced / Widowed; HS = High School; Estimates represent adjusted mean differences in outcome between groups for categorical covariates and adjusted slopes for categorical covariates; Root Mean Square Error (RMSE) = 13.61, ES = Effect Size (Estimate difference/RMSE) with ES  $\geq$  0.6 shaded in grey.

**Supplemental Table 3: Depression Symptoms Adjusted Model Results**

<b>PHQ-9 (Depression Symptoms)</b>					
<b>Covariates</b>	<b>Estimate</b>	<b>SE</b>	<b>95% CI</b>	<b>p-value</b>	<b>ES</b>
<b>Chronic Pain Group</b>					
Current vs Past Pain	2.51	0.26	(2.00, 3.01)	<0.001	0.52
Current vs No Pain	3.44	0.19	(3.08, 3.80)	<0.001	0.71
Past vs No Pain	0.93	0.26	(0.42, 1.44)	<0.001	0.19
<b>Follow-Up Period</b>					
Year 1 vs Year 2	-0.36	0.30	(-0.95, 0.23)	0.237	0.07
Year 1 vs Year 5	0.35	0.27	(-0.17, 0.88)	0.184	0.07
Year 1 vs Year 10	0.25	0.28	(-0.31, 0.80)	0.382	0.05
Year 1 vs Year 15+	1.05	0.27	(0.52, 1.57)	<0.001	0.22
Year 2 vs Year 5	0.71	0.29	(0.14, 1.28)	0.015	0.15
Year 2 vs Year 10	0.60	0.30	(0.01, 1.20)	0.047	0.12
Year 2 vs Year 15+	1.40	0.29	(0.84, 1.97)	<0.001	0.29
Year 5 vs Year 10	-0.11	0.26	(-0.62, 0.41)	0.688	0.02
Year 5 vs Year 15+	0.69	0.24	(0.21, 1.17)	0.005	0.14
Year 10 vs Year 15+	0.80	0.25	(0.31, 1.29)	0.001	0.17
<b>Age (Years)</b>	-0.03	0.01	(-0.04, -0.02)	<0.001	0.01
<b>Sex (Male vs Female)</b>	-0.30	0.19	(-0.67, 0.08)	0.126	0.06
<b>White Race (Yes vs No)</b>	0.25	0.34	(-0.42, 0.93)	0.459	0.05
<b>Black Race (Yes vs No)</b>	0.41	0.37	(-0.33, 1.13)	0.279	0.08
<b>Other Race (Yes vs No)</b>	-0.10	0.36	(-0.82, 0.61)	0.775	0.02
<b>Ethnicity (Yes vs No)</b>	0.45	0.29	(-0.11, 1.01)	0.119	0.09
<b>Marital Status</b>					
Single/Other vs Married	0.11	0.22	(-0.32, 0.54)	0.611	0.02
Single/Other vs Sep/Div/Wid	-0.63	0.24	(-1.10, -0.16)	0.008	0.13
Married vs Sep/Div/Wid	-0.75	0.22	(-1.17, -0.32)	<0.001	0.16
<b>Level of Education</b>					
Less than HS vs HS/Other	0.14	0.28	(-0.42, 0.70)	0.622	0.03
Less than HS vs Some College/Associate	-0.26	0.27	(-0.79, 0.26)	0.326	0.05
Less than HS vs Bachelor or Higher	-0.03	0.29	(-0.60, 0.54)	0.908	0.01
HS/Other vs Some College/Associate	-0.40	0.23	(-0.85, 0.04)	0.073	0.08
HS/Other vs Bachelor or Higher	-0.17	0.24	(-0.65, 0.30)	0.474	0.04
Some College/Associate vs Bachelor or Higher	0.23	0.22	(-0.19, 0.66)	0.288	0.05

<b>Employment Status</b>					
Employed/Student vs Retired	0.07	0.23	(-0.38, 0.52)	0.760	0.01
Employed/Student vs Unemployed	-0.54	0.27	(-1.08, -0.01)	0.047	0.11
Employed/Student vs Other	0.23	0.39	(-0.54, 1.01)	0.554	0.05
Retired vs Unemployed	-0.61	0.29	(-1.17, -0.05)	0.033	0.13
Retired vs Other	0.16	0.41	(-0.63, 0.96)	0.687	0.03
Unemployed vs Other	0.77	0.44	(-0.09, 1.63)	0.078	0.16
<b>Cause of Injury</b>					
Vehicular vs Fall	0.02	0.22	(-0.42, 0.46)	0.944	0.004
Vehicular vs Violence	-0.38	0.27	(-0.91, 0.14)	0.155	0.08
Vehicular vs Sports/Other	0.27	0.27	(-0.26, 0.79)	0.322	0.06
Fall vs Violence	-0.40	0.31	(-1.01, 0.21)	0.202	0.08
Fall vs Sports/Other	0.25	0.30	(-0.35, 0.85)	0.412	0.05
Violence vs Sports/Other	0.65	0.34	(-0.02, 1.32)	0.059	0.13
<b>FIM Motor</b>					
	0.03	0.01	(-0.06, -0.01)	0.003	0.01
<b>FIM Cognition</b>					
	-0.59	0.03	(-0.65, -0.54)	<0.001	0.12

PHQ-9 = Patient Health Questionnaire; SE = Standard Error; CI = Confidence Interval; Sep/Div/Wid = Separated / Divorced / Widowed; HS = High School; Estimates represent adjusted mean differences in outcome between groups for categorical covariates and adjusted slopes for categorical covariates; Root Mean Square Error (RMSE) = 4.83; ES = Effect Size (Estimate difference/RMSE) with ES  $\geq$  0.6 shaded in grey.

**Supplemental Table 4: Anxiety Symptoms Adjusted Model Results**

<b>GAD-7 (Anxiety Symptoms)</b>					
<b>Covariates</b>	<b>Estimate</b>	<b>SE</b>	<b>95% CI</b>	<b>p-value</b>	<b>ES</b>
<b>Chronic Pain Group</b>					
Current vs Past Pain	2.50	0.25	(2.02, 2.99)	<0.001	0.55
Current vs No Pain	2.95	0.18	(2.60, 3.29)	<0.001	0.65
Past vs No Pain	0.45	0.25	(-0.04, 0.93)	0.071	0.10
<b>Follow-Up Period</b>					
Year 1 vs Year 2	0.19	0.28	(-0.37, 0.75)	0.508	0.04
Year 1 vs Year 5	-0.01	0.25	(-0.51, 0.48)	0.961	0.002
Year 1 vs Year 10	0.42	0.27	(-0.10, 0.95)	0.114	0.09
Year 1 vs Year 15+	0.86	0.25	(0.37, 1.36)	<0.001	0.19
Year 2 vs Year 5	-0.20	0.27	(-0.74, 0.34)	0.465	0.04
Year 2 vs Year 10	0.23	0.29	(-0.33, 0.80)	0.415	0.05
Year 2 vs Year 15+	0.67	0.27	(0.14, 1.21)	0.014	0.15
Year 5 vs Year 10	0.43	0.25	(-0.05, 0.92)	0.082	0.09
Year 5 vs Year 15+	0.88	0.23	(0.42, 1.33)	<0.001	0.19
Year 10 vs Year 15+	0.44	0.24	(-0.02, 0.90)	0.061	0.10
<b>Age (Years)</b>	-0.04	0.01	(-0.06, -0.03)	<0.001	0.01
<b>Sex (Male vs Female)</b>	-0.69	0.18	(-1.05, 0.34)	<0.001	0.15
<b>White Race (Yes vs No)</b>	0.15	0.32	(-0.49, 0.79)	0.646	0.03
<b>Black Race (Yes vs No)</b>	0.80	0.35	(0.11, 1.49)	0.022	0.18
<b>Other Race (Yes vs No)</b>	-0.44	0.35	(-1.12, 0.24)	0.202	0.10
<b>Ethnicity (Yes vs No)</b>	0.54	0.27	(0.01, 1.07)	0.047	0.12
<b>Marital Status</b>					
Single/Other vs Married	0.05	0.21	(-0.36, 0.45)	0.827	0.01
Single/Other vs Sep/Div/Wid	-0.70	0.23	(-1.14, -0.25)	0.002	0.15
Married vs Sep/Div/Wid	-0.74	0.21	(-1.15, -0.34)	<0.001	0.16
<b>Level of Education</b>					
Less than HS vs HS/Other	0.12	0.27	(-0.40, 0.65)	0.650	0.03
Less than HS vs Some College/Associate	0.03	0.25	(-0.47, 0.53)	0.907	0.01
Less than HS vs Bachelor or Higher	-0.04	0.28	(-0.58, 0.50)	0.874	0.01
HS/Other vs Some College/Associate	-0.09	0.21	(-0.51, 0.32)	0.666	0.02
HS/Other vs Bachelor or Higher	-0.17	0.23	(-0.61, 0.28)	0.470	0.04
Some College/Associate vs Bachelor or Higher	-0.07	0.20	(-0.47, 0.33)	0.720	0.02

<b>Employment Status</b>					
Employed/Student vs Retired	0.45	0.22	(0.03, 0.88)	0.035	0.10
Employed/Student vs Unemployed	-0.02	0.26	(-0.53, 0.48)	0.927	0.004
Employed/Student vs Other	0.26	0.37	(-0.46, 0.99)	0.478	0.06
Retired vs Unemployed	-0.48	0.27	(-1.01, 0.06)	0.079	0.11
Retired vs Other	-0.19	0.38	(-0.94, 0.56)	0.616	0.04
Unemployed vs Other	0.29	0.41	(-0.52, 1.10)	0.488	0.06
<b>Cause of Injury</b>					
Vehicular vs Fall	-0.25	0.21	(-0.67, 0.16)	0.232	0.05
Vehicular vs Violence	-0.62	0.25	(-1.12, -0.12)	0.015	0.14
Vehicular vs Sports/Other	-0.01	0.26	(-0.51, 0.50)	0.983	0.002
Fall vs Violence	-0.36	0.29	(-0.94, 0.21)	0.217	0.08
Fall vs Sports/Other	0.25	0.29	(-0.32, 0.82)	0.391	0.05
Violence vs Sports/Other	0.61	0.33	(-0.03, 1.25)	0.060	0.13
<b>FIM Motor</b>	-0.02	0.01	(-0.04, 0.01)	0.173	0.004
<b>FIM Cognition</b>	-0.50	0.03	(-0.55, -0.44)	<0.001	0.11

GAD-7 = General Anxiety Disorder Questionnaire; SE = Standard Error; CI = Confidence Interval; Sep/Div/Wid = Separated / Divorced / Widowed; HS = High School; Estimates represent adjusted mean differences in outcome between groups for categorical covariates and adjusted slopes for categorical covariates; Root Mean Square Error (RMSE) = 4.56, ES = Effect Size (Estimate difference/RMSE) with ES  $\geq$  0.6 shaded in grey.



**Supplemental Table 5: Sleep Adjusted Model Results**

<b>PSQI (Sleep)</b>					
<b>Covariates</b>	<b>Estimate</b>	<b>SE</b>	<b>95% CI</b>	<b>p-value</b>	<b>ES</b>
<b>Chronic Pain Group</b>					
Current vs Past Pain	2.37	0.21	(1.96, 2.78)	<0.001	0.60
Current vs No Pain	3.22	0.15	(2.93, 3.52)	<0.001	0.81
Past vs No Pain	0.85	0.21	(0.44, 1.26)	<0.001	0.21
<b>Follow-Up Period</b>					
Year 1 vs Year 2	-0.23	0.25	(-0.72, 0.26)	0.357	0.06
Year 1 vs Year 5	-0.22	0.22	(-0.64, 0.21)	0.312	0.06
Year 1 vs Year 10	-0.18	0.23	(-0.63, 0.27)	0.426	0.05
Year 1 vs Year 15+	-0.13	0.22	(-0.56, 0.29)	0.537	0.03
Year 2 vs Year 5	0.01	0.24	(-0.46, 0.48)	0.967	0.003
Year 2 vs Year 10	0.05	0.25	(-0.44, 0.54)	0.851	0.01
Year 2 vs Year 15+	0.09	0.24	(-0.37, 0.56)	0.692	0.02
Year 5 vs Year 10	0.04	0.21	(-0.38, 0.45)	0.861	0.01
Year 5 vs Year 15+	0.08	0.20	(-0.30, 0.47)	0.668	0.02
Year 10 vs Year 15+	0.05	0.20	(-0.35, 0.44)	0.813	0.01
<b>Age (Years)</b>	-0.01	0.01	(-0.03, -0.00)	0.013	0.003
<b>Sex (Male vs Female)</b>	-0.23	0.16	(-0.54, 0.08)	0.141	0.06
<b>White Race (Yes vs No)</b>	0.54	0.28	(-0.01, 1.09)	0.053	0.14
<b>Black Race (Yes vs No)</b>	0.71	0.30	(0.12, 1.31)	0.019	0.18
<b>Other Race (Yes vs No)</b>	0.60	0.30	(0.01, 1.19)	0.045	0.15
<b>Ethnicity (Yes vs No)</b>	0.26	0.23	(-0.20, 0.72)	0.266	0.07
<b>Marital Status</b>					
Single/Other vs Married	0.13	0.18	(-0.22, 0.48)	0.456	0.03
Single/Other vs Sep/Div/Wid	-0.25	0.19	(-0.63, 0.13)	0.199	0.06
Married vs Sep/Div/Wid	-0.38	0.18	(-0.73, -0.03)	0.031	0.10
<b>Level of Education</b>					
Less than HS vs HS/Other	0.06	0.23	(-0.40, 0.51)	0.808	0.02
Less than HS vs Some College/Associate	-0.19	0.22	(-0.62, 0.24)	0.394	0.05
Less than HS vs Bachelor or Higher	-0.33	0.24	(-0.79, 0.13)	0.160	0.08
HS/Other vs Some College/Associate	-0.24	0.18	(-0.60, 0.12)	0.184	0.06
HS/Other vs Bachelor or Higher	-0.39	0.20	(-0.77, 0.01)	0.048	0.10
Some College/Associate vs Bachelor or Higher	-0.14	0.18	(-0.49, 0.20)	0.411	0.04

<b>Employment Status</b>					
Employed/Student vs Retired	-0.01	0.19	(-0.37, 0.35)	0.955	0.003
Employed/Student vs Unemployed	-0.50	0.22	(-0.94, -0.06)	0.025	0.13
Employed/Student vs Other	0.50	0.32	(-0.14, 1.13)	0.127	0.13
Retired vs Unemployed	-0.49	0.24	(-0.96, -0.03)	0.039	0.12
Retired vs Other	0.51	0.33	(-0.15, 1.16)	0.131	0.13
Unemployed vs Other	1.00	0.36	(0.29, 1.71)	0.006	0.25
<b>Cause of Injury</b>					
Vehicular vs Fall	-0.15	0.18	(-0.51, 0.21)	0.413	0.04
Vehicular vs Violence	-1.03	0.22	(-1.46, -0.59)	<0.001	0.26
Vehicular vs Sports/Other	0.12	0.22	(-0.31, 0.55)	0.571	0.03
Fall vs Violence	-0.88	0.26	(-1.38, -0.37)	<.001	0.22
Fall vs Sports/Other	0.27	0.25	(-0.21, 0.76)	0.271	0.07
Violence vs Sports/Other	1.15	0.28	(0.60, 1.70)	<0.001	0.29
<b>FIM Motor</b>					
	-0.03	0.01	(-0.05, -0.01)	<0.001	0.01
<b>FIM Cognition</b>					
	-0.27	0.02	(-0.31, -0.22)	<0.001	0.07

PSQI = Pittsburgh Sleep Quality Index; SE = Standard Error; CI = Confidence Interval; Sep/Div/Wid = Separated / Divorced / Widowed; HS = High School; Estimates represent adjusted mean differences in outcome between groups for categorical covariates and adjusted slopes for categorical covariates; Root Mean Square Error (RMSE) = 3.96, ES = Effect Size (Estimate difference/RMSE) with ES  $\geq$  0.6 shaded in grey.

**Supplemental Table 6: PART-O Summary Adjusted Model Results**

<b>PART-O Summary (Participation)</b>					
<b>Covariates</b>	<b>Estimate</b>	<b>SE</b>	<b>95% CI</b>	<b>p-value</b>	<b>ES</b>
<b>Chronic Pain Group</b>					
Current vs Past Pain	-0.05	0.03	(-0.11, 0.00)	0.047	0.10
Current vs No Pain	-0.03	0.02	(-0.07, 0.01)	0.165	0.06
Past vs No Pain	0.03	0.03	(-0.03, 0.08)	0.327	0.06
<b>Follow-Up Period</b>					
Year 1 vs Year 2	-0.03	0.03	(-0.09, 0.04)	0.410	0.06
Year 1 vs Year 5	-0.04	0.03	(-0.09, 0.02)	0.191	0.08
Year 1 vs Year 10	0.02	0.03	(-0.04, 0.07)	0.560	0.04
Year 1 vs Year 15+	0.10	0.03	(0.04, 0.15)	<0.001	0.19
Year 2 vs Year 5	-0.01	0.03	(-0.07, 0.05)	0.740	0.02
Year 2 vs Year 10	0.04	0.03	(-0.02, 0.11)	0.174	0.08
Year 2 vs Year 15+	0.12	0.03	(0.06, 0.18)	<0.001	0.23
Year 5 vs Year 10	0.05	0.03	(0.00, 0.11)	0.052	0.10
Year 5 vs Year 15+	0.13	0.03	(0.08, 0.18)	<0.001	0.25
Year 10 vs Year 15+	0.08	0.03	(0.03, 0.13)	0.002	0.15
<b>Age (Years)</b>	-0.01	0.01	(-0.02, -0.01)	<0.001	0.02
<b>Sex (Male vs Female)</b>	0.01	0.02	(-0.03, 0.05)	0.584	0.02
<b>White Race (Yes vs No)</b>	0.08	0.04	(0.01, 0.15)	0.024	0.15
<b>Black Race (Yes vs No)</b>	-0.02	0.04	(-0.09, 0.06)	0.662	0.04
<b>Other Race (Yes vs No)</b>	-0.02	0.04	(-0.09, 0.06)	0.652	0.04
<b>Ethnicity (Yes vs No)</b>	-0.01	0.03	(-0.06, 0.06)	0.945	0.02
<b>Marital Status</b>					
Single/Other vs Married	-0.58	0.02	(-0.63, -0.54)	<0.001	1.11
Single/Other vs Sep/Div/Wid	-0.08	0.03	(-0.13, -0.03)	0.002	0.15
Married vs Sep/Div/Wid	0.50	0.02	(0.46, 0.55)	<0.001	0.96
<b>Level of Education</b>					
Less than HS vs HS/Other	-0.14	0.03	(-0.20, -0.09)	<0.001	0.27
Less than HS vs Some College/Associate	-0.27	0.03	(-0.33, -0.22)	<0.001	0.52
Less than HS vs Bachelor or Higher	-0.41	0.03	(-0.46, -0.35)	<0.001	0.78
HS/Other vs Some College/Associate	-0.13	0.02	(-0.18, -0.08)	<0.001	0.25
HS/Other vs Bachelor or Higher	-0.26	0.03	(-0.31, -0.21)	<0.001	0.50
Some College/Associate vs Bachelor or Higher	-0.13	0.02	(-0.18, -0.09)	<0.001	0.25

<b>Cause of Injury</b>					
Vehicular vs Fall	0.03	0.02	(-0.02, 0.07)	0.284	0.06
Vehicular vs Violence	0.06	0.03	(0.00, 0.11)	0.048	0.11
Vehicular vs Sports/Other	0.01	0.03	(-0.05, 0.06)	0.763	0.02
Fall vs Violence	0.03	0.03	(-0.03, 0.10)	0.346	0.06
Fall vs Sports/Other	-0.02	0.03	(-0.08, 0.05)	0.602	0.04
Violence vs Sports/Other	-0.05	0.04	(-0.12, 0.02)	0.188	0.10
<b>FIM Motor</b>	0.02	0.001	(0.01, 0.02)	<0.001	0.04
<b>FIM Cognition</b>	0.04	0.002	(0.03, 0.05)	<0.001	0.08

PART-O = Participation Assessment with Recombined Tools – Objective; SE = Standard Error; CI = Confidence Interval; Sep/Div/Wid = Separated / Divorced / Widowed; HS = High School; Estimates represent adjusted mean differences in outcome between groups for categorical covariates and adjusted slopes for categorical covariates; Root Mean Square Error (RMSE) = 0.52, ES = Effect Size (Estimate difference/RMSE) with ES  $\geq$  0.6 shaded in grey.

**Supplemental Table 7: PART-O Out and About Adjusted Model Results**

<b>PART-O Out and About (Participation)</b>					
<b>Covariates</b>	<b>Estimate</b>	<b>SE</b>	<b>95% CI</b>	<b>p-value</b>	<b>ES</b>
<b>Chronic Pain Group</b>					
Current vs Past Pain	-0.11	0.03	(-0.17, -0.05)	<0.001	0.18
Current vs No Pain	-0.10	0.02	(-0.15, -0.06)	<0.001	0.16
Past vs No Pain	0.01	0.03	(-0.05, 0.07)	0.766	0.02
<b>Follow-Up Period</b>					
Year 1 vs Year 2	-0.03	0.04	(-0.10, 0.05)	0.513	0.05
Year 1 vs Year 5	0.01	0.03	(-0.05, 0.08)	0.701	0.02
Year 1 vs Year 10	-0.03	0.04	(-0.10, 0.04)	0.468	0.05
Year 1 vs Year 15+	-0.02	0.03	(-0.09, 0.04)	0.466	0.03
Year 2 vs Year 5	0.04	0.04	(-0.03, 0.11)	0.305	0.06
Year 2 vs Year 10	0.001	0.04	(-0.08, 0.07)	0.986	0.002
Year 2 vs Year 15+	0.001	0.04	(-0.07, 0.07)	0.991	0.002
Year 5 vs Year 10	-0.04	0.03	(-0.10, 0.03)	0.243	0.06
Year 5 vs Year 15+	-0.04	0.03	(-0.10, 0.02)	0.223	0.06
Year 10 vs Year 15+	0.001	0.03	(-0.06, 0.06)	0.972	0.002
<b>Age (Years)</b>	-0.01	0.001	(-0.003, 0.01)	0.371	0.02
<b>Sex (Male vs Female)</b>	0.13	0.02	(0.08, 0.17)	<0.001	0.21
<b>White Race (Yes vs No)</b>	0.08	0.04	(-0.003, 0.17)	0.061	0.13
<b>Black Race (Yes vs No)</b>	0.14	0.05	(-0.08, 0.11)	0.767	0.22
<b>Other Race (Yes vs No)</b>	-0.06	0.05	(-0.15, 0.03)	0.169	0.10
<b>Ethnicity (Yes vs No)</b>	0.02	0.04	(-0.05, 0.09)	0.646	0.03
<b>Marital Status</b>					
Single/Other vs Married	-0.12	0.03	(-0.18, -0.07)	<0.001	0.19
Single/Other vs Sep/Div/Wid	0.02	0.03	(-0.04, 0.08)	0.599	0.03
Married vs Sep/Div/Wid	0.14	0.03	(0.09, 0.19)	<0.001	0.22
<b>Level of Education</b>					
Less than HS vs HS/Other	-0.06	0.04	(-0.13, 0.01)	0.082	0.10
Less than HS vs Some College/Associate	-0.20	0.03	(-0.27, -0.13)	<0.001	0.32
Less than HS vs Bachelor or Higher	-0.27	0.04	(-0.34, -0.20)	<0.001	0.43
HS/Other vs Some College/Associate	-0.14	0.03	(-0.19, -0.08)	<0.001	0.22
HS/Other vs Bachelor or Higher	-0.21	0.03	(-0.27, -0.15)	<0.001	0.33
Some College/Associate vs Bachelor or Higher	-0.07	0.03	(-0.13, -0.02)	0.008	0.11

<b>Employment Status</b>					
Employed/Student vs Retired	0.20	0.03	(0.15, 0.26)	<0.001	0.32
Employed/Student vs Unemployed	0.20	0.03	(0.13, 0.27)	<0.001	0.32
Employed/Student vs Other	0.11	0.05	(0.02, 0.21)	0.021	0.18
Retired vs Unemployed	0.003	0.04	(-0.07, 0.07)	0.935	0.005
Retired vs Other	-0.09	0.05	(-0.19, 0.01)	0.080	0.14
Unemployed vs Other	-0.09	0.06	(-0.20, 0.02)	0.117	0.14
<b>Cause of Injury</b>					
Vehicular vs Fall	0.07	0.03	(0.02, 0.13)	0.012	0.11
Vehicular vs Violence	0.04	0.03	(-0.03, 0.11)	0.238	0.06
Vehicular vs Sports/Other	-0.01	0.03	(-0.08, 0.05)	0.682	0.02
Fall vs Violence	-0.03	0.04	(-0.11, 0.05)	0.446	0.05
Fall vs Sports/Other	-0.08	0.04	(-0.16, -0.01)	0.028	0.13
Violence vs Sports/Other	-0.05	0.04	(-0.14, 0.03)	0.213	0.08
<b>FIM Motor</b>	0.02	0.001	(0.01, 0.02)	<0.001	0.03
<b>FIM Cognition</b>	0.02	0.004	(0.01, 0.02)	<0.001	0.03

PART-O = Participation Assessment with Recombined Tools – Objective; SE = Standard Error; CI = Confidence Interval; Sep/Div/Wid = Separated / Divorced / Widowed; HS = High School; Estimates represent adjusted mean differences in outcome between groups for categorical covariates and adjusted slopes for categorical covariates; Root Mean Square Error (RMSE) = 0.63, ES = Effect Size (Estimate difference/RMSE) with ES  $\geq$  0.6 shaded in grey.

**Supplemental Table 8: PART-O Productivity Adjusted Model Results**

<b>PART-O Productivity (Participation)</b>					
<b>Covariates</b>	<b>Estimate</b>	<b>SE</b>	<b>95% CI</b>	<b>p-value</b>	<b>ES</b>
<b>Chronic Pain Group</b>					
Current vs Past Pain	-0.01	0.04	(-0.10, 0.07)	0.730	0.01
Current vs No Pain	0.03	0.03	(-0.03, 0.09)	0.267	0.04
Past vs No Pain	0.05	0.04	(-0.03, 0.13)	0.253	0.06
<b>Follow-Up Period</b>					
Year 1 vs Year 2	-0.08	0.05	(-0.18, 0.02)	0.104	0.10
Year 1 vs Year 5	-0.15	0.04	(-0.24, -0.07)	<0.001	0.19
Year 1 vs Year 10	-0.03	0.05	(-0.12, 0.06)	0.534	0.04
Year 1 vs Year 15+	0.09	0.04	(0.01, 0.17)	0.035	0.11
Year 2 vs Year 5	-0.07	0.05	(-0.17, 0.02)	0.115	0.09
Year 2 vs Year 10	0.05	0.05	(-0.04, 0.15)	0.293	0.06
Year 2 vs Year 15+	0.17	0.05	(0.08, 0.26)	<0.001	0.21
Year 5 vs Year 10	0.13	0.04	(0.04, 0.21)	0.003	0.16
Year 5 vs Year 15+	0.25	0.04	(0.17, 0.32)	<0.001	0.31
Year 10 vs Year 15+	0.12	0.04	(0.04, 0.20)	0.003	0.15
<b>Age (Years)</b>	-0.02	0.001	(-0.03, -0.02)	<0.001	0.02
<b>Sex (Male vs Female)</b>	-0.02	0.03	(-0.08, 0.04)	0.550	0.02
<b>White Race (Yes vs No)</b>	0.05	0.06	(-0.06, 0.16)	0.388	0.06
<b>Black Race (Yes vs No)</b>	-0.11	0.06	(-0.22, 0.01)	0.074	0.14
<b>Other Race (Yes vs No)</b>	0.05	0.06	(-0.07, 0.16)	0.418	0.06
<b>Ethnicity (Yes vs No)</b>	0.05	0.05	(-0.04, 0.14)	0.266	0.06
<b>Marital Status</b>					
Single/Other vs Married	-0.48	0.04	(-0.55, -0.41)	<0.001	0.59
Single/Other vs Sep/Div/Wid	-0.23	0.04	(-0.30, -0.15)	<0.001	0.28
Married vs Sep/Div/Wid	0.25	0.04	(0.18, 0.32)	<0.001	0.31
<b>Level of Education</b>					
Less than HS vs HS/Other	-0.21	0.05	(-0.30, -0.12)	<0.001	0.26
Less than HS vs Some College/Associate	-0.35	0.04	(-0.43, -0.26)	<0.001	0.43
Less than HS vs Bachelor or Higher	-0.52	0.05	(-0.62, -0.43)	<0.001	0.64
HS/Other vs Some College/Associate	-0.14	0.04	(-0.21, -0.07)	<0.001	0.17
HS/Other vs Bachelor or Higher	-0.32	0.04	(-0.39, -0.24)	<0.001	0.40
Some College/Associate vs Bachelor or Higher	-0.18	0.03	(-0.25, -0.11)	<0.001	0.22

<b>Cause of Injury</b>					
Vehicular vs Fall	-0.01	0.04	(-0.08, 0.06)	0.836	0.01
Vehicular vs Violence	0.01	0.04	(-0.08, 0.09)	0.859	0.01
Vehicular vs Sports/Other	0.03	0.04	(-0.05, 0.12)	0.470	0.04
Fall vs Violence	0.02	0.05	(-0.08, 0.12)	0.763	0.02
Fall vs Sports/Other	0.04	0.05	(-0.06, 0.14)	0.430	0.05
Violence vs Sports/Other	0.02	0.06	(-0.09, 0.13)	0.672	0.02
<b>FIM Motor</b>	0.03	0.002	(0.02, 0.03)	<0.001	0.04
<b>FIM Cognition</b>	0.06	0.01	(0.05, 0.07)	<0.001	0.07

PART-O = Participation Assessment with Recombined Tools – Objective; SE = Standard Error; CI = Confidence Interval; Sep/Div/Wid = Separated / Divorced / Widowed; HS = High School; Estimates represent adjusted mean differences in outcome between groups for categorical covariates and adjusted slopes for categorical covariates; Root Mean Square Error (RMSE) = 0.81, ES = Effect Size (Estimate difference/RMSE) with ES  $\geq$  0.6 shaded in grey.



**Supplemental Table 9: PART-O Social Adjusted Model Results**

<b>PART-O Social (Participation)</b>					
<b>Covariates</b>	<b>Estimate</b>	<b>SE</b>	<b>95% CI</b>	<b>p-value</b>	<b>ES</b>
<b>Chronic Pain Group</b>					
Current vs Past Pain	-0.02	0.04	(-0.10, 0.06)	0.629	0.02
Current vs No Pain	-0.01	0.03	(-0.06, 0.05)	0.867	0.01
Past vs No Pain	0.02	0.04	(-0.07, 0.10)	0.717	0.02
<b>Follow-Up Period</b>					
Year 1 vs Year 2	0.04	0.05	(-0.06, 0.14)	0.393	0.05
Year 1 vs Year 5	0.04	0.04	(-0.05, 0.13)	0.361	0.05
Year 1 vs Year 10	0.09	0.05	(0.00, 0.18)	0.060	0.11
Year 1 vs Year 15+	0.18	0.04	(0.09, 0.27)	<0.001	0.22
Year 2 vs Year 5	0.003	0.05	(-0.10, 0.09)	0.957	0.004
Year 2 vs Year 10	0.04	0.05	(-0.05, 0.14)	0.378	0.05
Year 2 vs Year 15+	0.14	0.05	(0.04, 0.23)	0.005	0.17
Year 5 vs Year 10	0.05	0.04	(-0.04, 0.13)	0.278	0.06
Year 5 vs Year 15+	0.14	0.04	(0.06, 0.22)	<0.001	0.17
Year 10 vs Year 15+	0.09	0.04	(0.01, 0.17)	0.023	0.11
<b>Age (Years)</b>	-0.01	0.001	(-0.01, -0.01)	<0.001	0.01
<b>Sex (Male vs Female)</b>	-0.10	0.03	(-0.16, -0.04)	0.002	0.12
<b>White Race (Yes vs No)</b>	0.12	0.06	(-0.01, -0.23)	0.038	0.15
<b>Black Race (Yes vs No)</b>	0.08	0.06	(-0.04, 0.19)	0.213	0.10
<b>Other Race (Yes vs No)</b>	-0.05	0.06	(-0.17, 0.07)	0.378	0.06
<b>Ethnicity (Yes vs No)</b>	-0.08	0.05	(-0.18, 0.01)	0.076	0.10
<b>Marital Status</b>					
Single/Other vs Married	-1.08	0.04	(-1.15, -1.01)	<0.001	1.32
Single/Other vs Sep/Div/Wid	-0.003	0.04	(-0.08, 0.07)	0.945	0.004
Married vs Sep/Div/Wid	1.08	0.04	(1.01, 1.15)	<0.001	1.32
<b>Level of Education</b>					
Less than HS vs HS/Other	-0.10	0.05	(-0.19, -0.01)	0.035	0.12
Less than HS vs Some College/Associate	-0.19	0.04	(-0.28, -0.10)	<0.001	0.23
Less than HS vs Bachelor or Higher	-0.29	0.05	(-0.39, -0.20)	<0.001	0.35
HS/Other vs Some College/Associate	-0.09	0.04	(-0.16, -0.02)	0.013	0.11
HS/Other vs Bachelor or Higher	-0.19	0.04	(-0.27, -0.12)	<0.001	0.23
Some College/Associate vs Bachelor or Higher	-0.10	0.04	(-0.17, -0.03)	0.004	0.12

<b>Employment Status</b>					
Employed/Student vs Retired	0.29	0.04	(0.21, 0.36)	<0.001	0.35
Employed/Student vs Unemployed	0.14	0.05	(0.05, 0.23)	0.002	0.17
Employed/Student vs Other	0.10	0.06	(-0.02, 0.23)	0.106	0.12
Retired vs Unemployed	-0.14	0.05	(-0.24, -0.05)	0.003	0.17
Retired vs Other	-0.18	0.07	(-0.31, -0.05)	0.006	0.22
Unemployed vs Other	-0.04	0.07	(-0.18, 0.10)	0.591	0.05
<b>Cause of Injury</b>					
Vehicular vs Fall	0.01	0.04	(-0.06, 0.08)	0.738	0.01
Vehicular vs Violence	0.11	0.04	(0.02, 0.19)	0.016	0.13
Vehicular vs Sports/Other	0.01	0.04	(-0.08, 0.10)	0.799	0.01
Fall vs Violence	0.09	0.05	(-0.01, 0.20)	0.065	0.11
Fall vs Sports/Other	-0.001	0.05	(-0.10, 0.10)	0.983	0.001
Violence vs Sports/Other	-0.10	0.06	(-0.21, 0.02)	0.090	0.12
<b>FIM Motor</b>	0.004	0.002	(0.001, 0.01)	0.028	0.01
<b>FIM Cognition</b>	0.04	0.005	(0.03, 0.05)	<0.001	0.05

PART-O = Participation Assessment with Recombined Tools – Objective; SE = Standard Error; CI = Confidence Interval; Sep/Div/Wid = Separated / Divorced / Widowed; HS = High School; Estimates represent adjusted mean differences in outcome between groups for categorical covariates and adjusted slopes for categorical covariates; Root Mean Square Error (RMSE) = 0.82, ES = Effect Size (Estimate difference/RMSE) with ES  $\geq$  0.6 shaded in grey.