

Impact of persistent pain symptoms on work absence, health status and employment 18 months following disabling work-related injury or illness – Supplementary Material
Dobson et. al (2022)

SUPPLEMENTARY TABLES

Supplementary Table 1: Associations between Persistent Pain Status at 18 Months and Wage Replacement Duration Group, Using the 3-12 Month Group as Reference, Overall Cohort (n=1,131)				
Predictor		Wage Replacement Duration 12-18 Months vs. 3-12 Months (Ref)		
		OR	95% CI	
	Model Intercept	0.33	0.19	0.58
Pain Group	Mild Pain, Functional Impairment Unlikely	2.38	1.53	3.72
Ref: No Pain Group	Severe Pain, Functional Impairment Likely	4.58	2.92	7.20
Claimant Age	< 30 years old	1.26	0.69	2.28
Ref: 30-39 years old	40-49 years old	1.19	0.72	1.99
	50-59 years old	1.10	0.69	1.75
	Over 60 years old	1.53	0.91	2.57
Sex	Female	1.03	0.76	1.40
Ref: Male & Other Not Specified				
Nature of Injury	Fracture	1.09	0.70	1.69
Ref: Sprain/Strain/ Dislocation	Superficial or Open Wound	1.44	0.83	2.50
	Organ/Blood Vessel/Muscle Injury, Internal Injury, Crushing, Amputation	1.16	0.73	1.84
	Other	0.14	0.05	0.42
	Unknown	1.58	0.98	2.55
Prior Chronic Condition	Back Problems Prior to the Work Injury	0.76	0.50	1.15
Ref: No Prior Condition	Arthritis Prior to the Work Injury	1.10	0.73	1.66
	Mood Disorder Prior to the Work Injury	0.71	0.42	1.19

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Supplementary Table 2: Associations between Persistent Pain Status at 18 Months and Wage Replacement Duration Group, Stratified by Sex

		Women (n=497)						Men /Other not Specified (n=634)					
		Wage replacement duration 3-12 months vs. 1 day - 3 months			Wage replacement duration 12-18 months vs. 5 days - 3 months			Wage replacement duration 3-12 months vs. 1 day - 3 months			Wage replacement duration 12-18 months vs. 1 day - 3 months		
		OR	Lower 95% CI	Upper 95% CI	OR	Lower 95% CI	Upper 95% CI	OR	Lower 95% CI	Upper 95% CI	OR	Lower 95% CI	Upper 95% CI
	Intercept	0.87	0.43	1.76	0.27	0.11	0.65	0.53	0.29	0.97	0.17	0.08	0.35
Claimant Age	< 30 years old vs. 30-39 years old	0.28	0.12	0.67	0.27	0.11	0.69	1.36	0.64	2.89	1.96	0.89	4.35
	40-49 years old vs. 30-39 years old	0.74	0.35	1.58	0.92	0.41	2.04	1.29	0.65	2.55	1.49	0.73	3.05
	50-59 years old vs. 30-39 years old	0.82	0.42	1.63	0.90	0.43	1.87	1.80	0.96	3.39	1.97	1.00	3.88
	Over 60 years old vs. 30-39 years old	0.48	0.21	1.08	0.60	0.26	1.37	2.76	1.32	5.78	4.68	2.19	9.98
Nature of Injury	Fracture vs. Sprain/Strain/Dislocation	1.94	0.90	4.18	1.77	0.78	4.04	4.06	1.88	8.77	5.10	2.32	11.21
	Superficial or Open Wound vs. Sprain/Strain/Dislocation	0.54	0.24	1.22	0.65	0.29	1.45	0.43	0.22	0.84	0.71	0.37	1.34
	Organ/Blood Vessel/Muscle Injury, Internal Injury, Crushing, Amputation vs. Sprain/Strain/Dislocation	2.10	1.06	4.18	2.10	1.04	4.25	0.69	0.33	1.43	0.98	0.48	2.01
	Other vs. Sprain/Strain/Dislocation	1.23	0.40	3.81	0.44	0.10	1.97	10.02	2.83	35.50	0.55	0.05	5.64
	Unknown vs. Sprain/Strain/Dislocation	0.89	0.37	2.16	1.27	0.54	2.96	2.14	1.03	4.45	3.74	1.82	7.69
Prior Chronic Condition	Back Problems Prior to the Work Injury vs. No Back Problems	1.17	0.63	2.15	0.65	0.33	1.29	0.66	0.37	1.17	0.63	0.35	1.13
	Arthritis Prior to the Work Injury vs. No Arthritis	1.19	0.61	2.31	1.45	0.74	2.83	0.88	0.49	1.61	0.87	0.48	1.57
	Mood Disorder Prior to the Work Injury vs. No Mood Disorder	0.51	0.26	1.00	0.41	0.20	0.82	0.62	0.30	1.28	0.43	0.19	0.94
Pain Group	Mild Pain, Functional Impairment Unlikely vs. No Pain	1.46	0.83	2.56	4.45	2.11	9.39	1.23	0.75	2.03	2.62	1.47	4.66
	Severe Pain, Functional Impairment Likely vs. No Pain	2.42	1.28	4.60	13.70	6.26	30.01	1.98	1.11	3.53	8.30	4.46	15.46

Bold values indicate statistically significant estimate at the $\alpha = 0.05$ level

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Supplementary Table 3: Associations between Persistent Pain Status at 18 Months and Lost Time Disability Claim Benefit Outcomes, Stratified by Sex (Women: n=497; Men/ Not Specified = 634)

		Dependent Variable 1: Total Number of LOE Days					
		Women			Men/Not Specified		
		B	Lower 95% CI	Upper 95% CI	B	Lower 95% CI	Upper 95% CI
Intercept	Intercept	3.072	2.68	3.463	3.077	2.753	3.401
Pain Group	Mild Pain, Functional Impairment Unlikely vs. No Pain	0.138	-0.182	0.457	0.098	-0.164	0.361
	Severe Pain, Functional Impairment Likely vs. No Pain	0.568	0.236	0.899	0.482	0.208	0.755
		Dependent Variable 2: Total Amount of LOE Benefits					
		B	Lower 95% CI	Upper 95% CI	B	Lower 95% CI	Upper 95% CI
Intercept	Intercept	7.67	7.263	8.076	7.777	7.432	8.122
Pain Group	Mild Pain, Functional Impairment Unlikely vs. No Pain	0.094	-0.238	0.426	0.162	-0.117	0.441
	Severe Pain, Functional Impairment Likely vs. No Pain	0.49	0.144	0.835	0.48	0.189	0.771
		Dependent Variable 3: Total Amount of Healthcare Expenditure Benefits					
		B	Lower 95% CI	Upper 95% CI	B	Lower 95% CI	Upper 95% CI
Intercept	Intercept	6.845	6.384	7.307	6.994	6.57	7.418
Pain Group	Mild Pain, Functional Impairment Unlikely vs. No Pain	1.406	1.015	1.797	1.187	0.831	1.543
	Severe Pain, Functional Impairment Likely vs. No Pain	-0.396	-0.784	-0.007	-0.29	-0.658	0.077

Bold values indicate statistically significant estimate at the $\alpha = 0.05$ level
 Analyses adjusted for age, sex, nature of injury and prior chronic conditions

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Supplementary Table 4: Associations between Persistent Pain Status at 18 Months and Wage Replacement Duration Group, Including First Wage Replacement Claim as a Predictor, Overall Cohort (n=1,131)

Predictor		Wage replacement duration 3-12 months vs. 1 day – 3 months			Wage replacement duration 12-18 months vs. 1 day – 3 months				
		OR	95% CI	p	OR	95% CI	p		
	Model Intercept	0.597	0.354	1.005	0.052	0.237	0.130	0.432	<0.001
Pain Group Ref: No Pain Group	Mild Pain, Functional Impairment Unlikely	1.391	0.957	2.022	0.083	3.040	1.939	4.766	<0.001
	Severe Pain, Functional Impairment Likely	2.097	1.367	3.218	0.001	9.123	5.659	14.706	<0.001
Claimant Age Ref: 30-39 years old	< 30 years old	0.574	0.329	1.001	0.050	0.643	0.351	1.181	0.154
	40-49 years old	0.981	0.592	1.627	0.941	1.166	0.684	1.985	0.573
	50-59 years old	1.261	0.792	2.009	0.329	1.348	0.819	2.218	0.240
	Over 60 years old	1.245	0.721	2.149	0.432	1.808	1.032	3.167	0.038
Sex Ref: Male & Other Not Specified	Female	0.778	0.567	1.068	0.120	0.844	0.609	1.168	0.306
Nature of Injury Ref: Sprain/Strain/Dislocation	Fracture	2.804	1.623	4.847	<0.001	3.208	1.820	5.656	<0.001
	Superficial or Open Wound	0.471	0.279	0.795	0.005	0.735	0.449	1.205	0.223
	Organ/Blood Vessel/Muscle Injury, Internal Injury, Crushing, Amputation	1.306	0.805	2.120	0.280	1.539	0.941	2.517	0.086
	Other	3.669	1.708	7.882	0.001	0.528	0.156	1.781	0.303
	Unknown	1.452	0.808	2.608	0.212	1.990	1.110	3.568	0.021
Prior Chronic Condition Ref: No Prior Condition	Back Problems Prior to the Work Injury	0.918	0.599	1.408	0.696	0.709	0.454	1.107	0.131
	Arthritis Prior to the Work Injury	0.971	0.621	1.520	0.899	1.024	0.657	1.595	0.918
	Mood Disorder Prior to the Work Injury	0.650	0.398	1.061	0.085	0.452	0.268	0.764	0.003
First WSIB Claim	Yes vs. No	1.496	1.073	2.085	0.018	1.200	0.855	1.684	0.292

Bold values indicate statistically significant estimate at the $\alpha = 0.05$ level

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Supplementary Table 5: Associations between Persistent Pain Status at 18 Months, Comparison of Original Model, and Model Including First Wage Replacement Claim as a Predictor, Overall Cohort (n=1,131)

		Original Model			Original Model + First WSIB Claim		
Dependent Variable 1: Total Number of LOE Days							
		B	95% CI		B	95% CI	
Intercept	Intercept	3.191	2.933	3.449	3.053	2.777	3.329
Pain Group	Mild Pain, Functional Impairment Unlikely vs. No Pain	0.116	-0.087	0.32	0.095	-0.108	0.298
	Severe Pain, Functional Impairment Likely vs. No Pain	0.511	0.300	0.722	0.494	0.284	0.704
First WSIB Claim					0.170	0.005	0.335
Dependent Variable 2: Total Amount of LOE Benefits							
Intercept	Intercept	7.925	7.654	8.197	7.807	7.517	8.098
Pain Group	Mild Pain, Functional Impairment Unlikely vs. No Pain	0.134	-0.079	0.348	0.112	-0.101	0.326
	Severe Pain, Functional Impairment Likely vs. No Pain	0.477	0.254	0.699	0.446	0.225	0.667
First WSIB Claim					0.113	-0.060	0.286
Dependent Variable 3: Total Amount of Healthcare Expenditure Benefits							
Intercept	Intercept	6.983	6.661	7.304	6.928	6.580	7.277
Pain Group	Mild Pain, Functional Impairment Unlikely vs. No Pain	0.479	0.225	0.732	0.463	0.202	0.725
	Severe Pain, Functional Impairment Likely vs. No Pain	1.259	0.997	1.522	1.230	0.955	1.505
First WSIB Claim					-0.005	-0.218	0.207

Bold values indicate statistically significant estimate at the $\alpha = 0.05$ level
Analyses adjusted for age, sex, nature of injury and prior chronic conditions
Regression coefficients interpreted as a “ $\beta\%$ increase” in the dependent variable per each unit increase in the independent variable