

*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

<b>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)</b>				
<b>Predictor</b>		<b>Wage Replacement Duration 12-18 Months vs. 3-12 Months (Ref)</b>		
		<b>OR</b>	<b>95% CI</b>	
	Model Intercept	<b>0.33</b>	<b>0.19</b>	<b>0.58</b>
<b>Pain Group</b>	Mild Pain, Functional Impairment Unlikely	<b>2.38</b>	<b>1.53</b>	<b>3.72</b>
Ref: No Pain Group	Severe Pain, Functional Impairment Likely	<b>4.58</b>	<b>2.92</b>	<b>7.20</b>
<b>Claimant Age</b>	< 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
<b>Sex</b>	Female	1.03	0.76	1.40
Ref: Male & Other Not Specified				
<b>Nature of Injury</b>	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	<b>0.14</b>	<b>0.05</b>	<b>0.42</b>
	Unknown	<b>1.58</b>	<b>0.98</b>	<b>2.55</b>
<b>Prior Chronic Condition</b>	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	<b>0.87</b>	<b>0.43</b>	<b>1.76</b>	<b>0.27</b>	<b>0.11</b>	<b>0.65</b>	<b>0.53</b>	<b>0.29</b>	<b>0.97</b>	<b>0.17</b>	<b>0.08</b>	<b>0.35</b>
Claimant Age	< 30 years old vs. 30-39 years old	0.28	0.12	0.67	<b>0.27</b>	<b>0.11</b>	<b>0.69</b>	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	<b>2.76</b>	<b>1.32</b>	<b>5.78</b>	<b>4.68</b>	<b>2.19</b>	<b>9.98</b>
Nature of Injury	Fracture vs. Sprain/Strain/Dislocation	1.94	0.90	4.18	1.77	0.78	4.04	<b>4.06</b>	<b>1.88</b>	<b>8.77</b>	<b>5.10</b>	<b>2.32</b>	<b>11.21</b>
	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	<b>2.10</b>	<b>1.04</b>	<b>4.25</b>	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	<b>2.14</b>	<b>1.03</b>	<b>4.45</b>	<b>3.74</b>	<b>1.82</b>	<b>7.69</b>
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	<b>0.41</b>	<b>0.20</b>	<b>0.82</b>	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	<b>4.45</b>	<b>2.11</b>	<b>9.39</b>	<b>1.23</b>	<b>0.75</b>	<b>2.03</b>	<b>2.62</b>	<b>1.47</b>	<b>4.66</b>
	Severe Pain, Functional Impairment Likely vs. No Pain	<b>2.42</b>	<b>1.28</b>	<b>4.60</b>	<b>13.70</b>	<b>6.26</b>	<b>30.01</b>	<b>1.98</b>	<b>1.11</b>	<b>3.53</b>	<b>8.30</b>	<b>4.46</b>	<b>15.46</b>

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	<b>3.072</b>	<b>2.68</b>	<b>3.463</b>	<b>3.077</b>	<b>2.753</b>	<b>3.401</b>
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	<b>0.568</b>	<b>0.236</b>	<b>0.899</b>	<b>0.482</b>	<b>0.208</b>	<b>0.755</b>
		Dependent Variable 2: Total Amount of LOE Benefits					
		B	Lower 95% CI	Upper 95% CI	B	Lower 95% CI	Upper 95% CI
Intercept	Intercept	<b>7.67</b>	<b>7.263</b>	<b>8.076</b>	<b>7.777</b>	<b>7.432</b>	<b>8.122</b>
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	<b>0.49</b>	<b>0.144</b>	<b>0.835</b>	<b>0.48</b>	<b>0.189</b>	<b>0.771</b>
		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	<b>6.845</b>	<b>6.384</b>	<b>7.307</b>	<b>6.994</b>	<b>6.57</b>	<b>7.418</b>
Pain Group	Mild Pain, Functional Impairment Unlikely vs. No Pain	<b>1.406</b>	<b>1.015</b>	<b>1.797</b>	<b>1.187</b>	<b>0.831</b>	<b>1.543</b>
	Severe Pain, Functional Impairment Likely vs. No Pain	<b>-0.396</b>	<b>-0.784</b>	<b>-0.007</b>	-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	<b>&lt;0.001</b>
<b>Pain Group</b> Ref: No Pain Group	Mild Pain, Functional Impairment Unlikely	1.391	0.957	2.022	0.083	<b>3.040</b>	<b>1.939</b>	<b>4.766</b>	<b>&lt;0.001</b>
	Severe Pain, Functional Impairment Likely	<b>2.097</b>	<b>1.367</b>	<b>3.218</b>	<b>0.001</b>	<b>9.123</b>	<b>5.659</b>	<b>14.706</b>	<b>&lt;0.001</b>
<b>Claimant Age</b> 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
<b>Sex</b> Ref: Male & Other Not Specified	Female	0.778	0.567	1.068	0.120	0.844	0.609	1.168	0.306
<b>Nature of Injury</b> Ref: Sprain/Strain/Dislocation	Fracture	2.804	1.623	4.847	<b>&lt;0.001</b>	3.208	1.820	5.656	<b>&lt;0.001</b>
	Superficial or Open Wound	0.471	0.279	0.795	<b>0.005</b>	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	<b>0.001</b>	0.528	0.156	1.781	0.303
	Unknown	1.452	0.808	2.608	0.212	1.990	1.110	3.568	<b>0.021</b>
<b>Prior Chronic Condition</b> 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	<b>0.003</b>
<b>First WSIB Claim</b>	Yes vs. No	<b>1.496</b>	<b>1.073</b>	<b>2.085</b>	<b>0.018</b>	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	
<b>Intercept</b>	Intercept	<b>3.191</b>	<b>2.933</b>	<b>3.449</b>	<b>3.053</b>	<b>2.777</b>	<b>3.329</b>
<b>Pain Group</b>	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	<b>0.511</b>	<b>0.300</b>	<b>0.722</b>	<b>0.494</b>	<b>0.284</b>	<b>0.704</b>
<b>First WSIB Claim</b>					<b>0.170</b>	<b>0.005</b>	<b>0.335</b>
Dependent Variable 2: Total Amount of LOE Benefits							
<b>Intercept</b>	Intercept	7.925	7.654	8.197	<b>7.807</b>	<b>7.517</b>	<b>8.098</b>
<b>Pain Group</b>	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	<b>0.477</b>	<b>0.254</b>	<b>0.699</b>	<b>0.446</b>	<b>0.225</b>	<b>0.667</b>
<b>First WSIB Claim</b>					0.113	-0.060	0.286
Dependent Variable 3: Total Amount of Healthcare Expenditure Benefits							
<b>Intercept</b>	Intercept	<b>6.983</b>	<b>6.661</b>	<b>7.304</b>	<b>6.928</b>	<b>6.580</b>	<b>7.277</b>
<b>Pain Group</b>	Mild Pain, Functional Impairment Unlikely vs. No Pain	<b>0.479</b>	<b>0.225</b>	<b>0.732</b>	<b>0.463</b>	<b>0.202</b>	<b>0.725</b>
	Severe Pain, Functional Impairment Likely vs. No Pain	<b>1.259</b>	<b>0.997</b>	<b>1.522</b>	<b>1.230</b>	<b>0.955</b>	<b>1.505</b>
<b>First WSIB Claim</b>					-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 “β% increase” in the dependent variable per each unit increase in the independent variable