Determinants of Sick Leave Duration Following Occupational Injuries among Workers in the County of Gävleborg, Sweden

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Abstract

Background: Occupational injuries continue to add to the global burden of injuries. Recent global estimates show that up 317 million workers were injured in accidents at work that resulted in absence from work of four days or more. Whereas sick leave is important for rehabilitation and recovery, the duration of sick leave and consequent return to work is of concern in order to prevent negative outcomes. There is therefore a need to examine factors associated with sick leave duration among injured workers for effective rehabilitation. This study aimed to investigate the determinants of leave sick duration following occupational injuries.

Method: The Swedish National Working Environment Agency keeps a record of all cases of occupational injuries

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Male	3251	5291	61.4
Female	2040		38.6
Cause of Injury			
Loss of control			
Fall			
Movement involving load			
Slip/snapping/splitting/breaking of an object			
Violence			
Movement not involving load			

Electricity/fi©

self-employed and their family members (72%). All of the figures reached statistical significance

Variable

Sick leave longer than 14 days

Transport & storage	255	104	40.5	
Accomodation & Food service activities				
Information and communication	362	181	50	
Financial insurance activities	74	31	41.9	
Real estate				
Professional/scientic/technical activities	15	5	33.3	
Administrative & support services	12	0	0	
Public administration/compulsory social security	75	41	54.7	
Education	64	23	35.9	
Human health and social work				
Arts/entertainment/recreation & other services	254	104	40.9	
	218 84 38.5			
	392 133 33.9			
	964 327 33.9			
	90 42 46.7			
Employment status				
		36	72	0.000
		1667	38.5	
		9	19.5	
		286	37.8	
Self-employed and family members	50			
Permanent employment	4331			
Student	86			
Temporary	773			

Table 2 Proportions of sick leave duration longer than two weeks by demographic factors, occupational sector and cause of injury

Adjusted odds ratios for determinants of length of sickness absence are presented in Table 3 The results show that the odds of sickness absence longer than fourteen (14) days increased with age (<20yrs=0.214; 20:29=0.397; 30:39=0.575; 40:49=0.709; 50:59=0.778; 60 and above=1.000). Compared to females, Injured male workers were less likely to be away from work for periods longer than four days (OR=0.783). There was a twofold odds for longer sickness absence for injuries due to fall (OR=2.020) and Slip/snapping/splitting/breaking of an object (2078).

With regards to occupational sector, being a worker in the manufacturing or healthcare sector was a significant predictor of sick leave duration with workers in this sectors having lower odds for sick leave longer than two weeks (0.558 p=0.011 and 0.592, p=0.025) respectively. The sectors with the highest odd of longer sick leave were mining (1.833), agriculture (1.246), transport (1.153) and real estate (1.136) however, these did not reach statistical significance. It can also be seen from Table 3 that the self-employed, their family members and

temporary workers were more likely to have been on sick leave longer than 14 days.

	Sick leave longer than 14 days		
Variable	Adjusted OR	CI for OR	P-value

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Cause of Injury			
Loss of control	1.467	0.861 – 2.497	0.158
Fall	2.020	1.185 – 3.444	0.010
Movement involving load	1.642	0.934 – 2.889	0.085
Slip/snapping/splitting/breaking of an object	2.078	1.169 – 3.695	0.013
Violence	1.649	0.955 – 2.848	0.073
Movement not involving load	1.348	0.784 – 2.320	0.280
Electricity/fire/Explosion	1.172	0.501 – 2.742	0.714
Leakage/Radiation	1.000		0.000
Industry			
Agriculture/fishing/logging	1.246	0.685– 2.268	0.471
Mining	1.833	0.447 – 7.510	0.400
Manufacturing	0.558	0.356 – 0.873	0.011
ELectricity/gas/stea/airconditioning	0.613	0.213 – 1.769	0.366
Watersupply/sewage/waste management/remedial	0.838	0.405 - 1.731	0.632
Construction	0.911	0.566 - 1.467	0.701
Whosale/retail trade/repair of	0.829	0.501 – 1.371	0.464
Transport & storage	1.153	0.708 – 1.878	0.567
Accomposition & Food service	0.989	0.518 – 1.886	0.973
activities	0.468	0.145 – 1.505	0.202
Information and communication	0.000	0.00	0.999
Financial insurance activities	1.136	0.599 - 2.154	0.695
Real estate	0.657	0.330 - 1.309	0.232
Professional/scientic/technical	0.784	0.474 - 1.297	0.344
Administrativo & support convisoo	0.741	0.430 - 1.234	0.205
Administrative & support services	0.003	0.419 - 1.110	0.120
social security	1.00	0.374 - 0.938	0.025
Education	1.00		0.000
Human health and social work			
Arts/entertainment/recreation & other services			
Employment Type	2.172	1.112 – 4.240	0.023
Self-employed and family members	0.875	0.733 – 1.045	0.140
Permanent employment	0.420	0.178 – 0.987	0.045
Student	1.000		0.005
Temporary			
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Table 3: Adjusted odds ratio for sick leave duration: adjusted for age,

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