Original article. Scand J Work Environ Health – online first. doi:10.5271/sjweh.3701

Identifying return-to-work trajectories using sequence analysis in a cohort of workers with work-related musculoskeletal disorders

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1 Appendix

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Descriptive statistics of study sample, by cluster

	Observed (N)	1. Early Sust. RTW (%)	6. Constant SA (%)	7. Deferred SA (%)	3. Early NRTW (%)	5. Late NRTW (%)	2. Short delayed RTW (%)	8. Long delayed RTW by MRTW (%)	4. Long delayed RTW preceded by SA (%)	9. Unclassifiable (%)
Total	81 062	49.7	3.0	0.9	6.7	3.1	30.6	0.8	4.2	1.1
Musculoskeletal disorder										
Upper Extremities Sprains & Strains	14 725	48.1	4.6	1.7	6.2	2.8	29.1	1.1	5.0	1.5
Lower Extremities Sprains & Strains	13 390	56.9	2.6	0.8	6.0	2.4	24.3	0.9	4.9	1.3
Back[b] Sprains & Strains	35 614	55.5	1.4	0.5	7.0	2.4	30.0	0.5	2.1	0.6
Upper Extremities Fractures	3 797	23.4	4.1	1.1	7.1	5.0	49.9	0.9	7.2	1.3
Lower Extremities Fractures	2 620	16.8	6.8	0.6	6.1	7.8	46.0	1.3	12.3	2.4

Torso[c] Fractures	1 557	24.2	11.2	1.0	8.7	7.6	36.9	0.9	7.6	1.8
Dislocation	1 393	29.7	6.9	1.1	7.0	4.0	37.5	1.7	10.0	2.1
Dorsopathies	4 186	50.1	4.4	1.3	6.7	4.2	26.6	0.7	4.9	1.1
Rheumatism (Excluding the back)	3 780	41.4	3.4	1.7	7.0	4.2	34.0	1.5	4.6	2.3
Previous claims (preceding 10 years)										
No	28 358	51.7	2.6	0.6	8.0	3.0	28.6	0.7	3.7	1.0
Yes	52 704	48.6	3.2	1.1	6.0	3.1	31.7	0.8	4.4	1.2
Age										
15-24 years	9 096	60.1	2.3	0.3	10.6	1.8	23.4	0.4	1.8	0.4
25-34 years	17 196	54.3	2.0	0.7	7.3	2.5	28.6	0.6	3.3	0.8
35-44 years	18 684	49.0	3.0	1.0	6.2	3.0	31.7	0.8	4.2	1.1
45-54 years	23 141	46.1	3.6	1.1	5.6	3.6	32.7	1.0	4.9	1.4
55-64 years	12 945	43.5	4.4	1.2	5.8	3.8	33.1	1.0	5.7	1.6
Gender										
Male	50 829	49.7	3.6	1.0	6.9	3.4	29.0	0.7	4.6	1.2
Female	30 233	49.6	2.0	0.8	6.4	2.5	33.3	1.0	3.4	1.1
Wage per annum ($ Canadian)										
<$20.000	8 151	49.0	2.3	0.6	11.8	3.5	27.9	0.7	3.4	0.7
$20.000-$39.999	30 417	50.4	2.5	0.7	7.9	3.2	30.2	0.6	3.6	0.9
$40.000-$59.999	24 663	50.1	3.1	1.1	4.9	2.9	31.9	0.8	4.0	1.2
>$59.999	17 831	48.1	4.0	1.2	4.8	2.8	30.8	1.0	5.7	1.6

Occupation										
Management	1 931	52.4	3.4	1.5	4.0	3.2	27.6	1.7	4.3	2.1
Business[d]	3 926	55.9	1.8	0.9	5.5	2.1	29.2	1.0	2.3	1.4
Natural sciences[e]	1 339	53.5	2.5	1.0	6.1	2.4	28.3	0.9	4.6	0.6
Health	9 930	48.5	1.7	0.6	5.0	1.7	37.6	0.7	3.5	0.6
Social science[f]	2 657	61.3	1.6	0.6	4.6	1.3	26.4	0.3	2.8	1.0
Recreation[g]	1 200	53.9	1.9	1.1	7.9	3.0	25.8	0.9	4.2	1.3
Sales, service	19 210	52.2	2.0	0.7	6.6	2.4	30.6	1.0	3.3	1.1
Trades[h]	30 790	47.2	4.1	1.1	7.0	3.9	29.8	0.7	5.0	1.2
Primary industry	3 590	42.0	4.2	0.9	11.9	5.0	29.4	0.5	5.4	0.8
Manufacturing[i]	6 489	48.9	3.4	1.2	7.8	3.3	28.9	0.7	4.3	1.5
Industries										
Primary resources	3 014	36.5	5.3	1.0	11.5	5.7	31.9	0.5	6.9	0.9
Manufacturing	9 863	49.0	3.5	1.3	6.6	3.4	29.5	0.8	4.5	1.6
Construction	11 212	43.2	5.3	1.2	9.0	5.5	28.5	0.7	5.5	1.1
Transportation[j]	7 756	44.6	3.8	1.2	7.0	3.5	32.8	0.7	5.5	1.1
Trade	11 519	54.4	1.9	0.8	5.9	2.4	29.7	1.3	2.5	1.1
Public sector	3 684	59.6	1.7	0.8	3.0	1.1	27.9	0.8	3.5	1.6
Service sector	34 014	51.7	2.2	0.8	6.1	2.3	31.6	0.7	3.7	1.0
Firm size										
<20 FTE	17 144	40.3	5.1	1.0	10.0	5.6	30.5	0.9	5.6	1.1
20-99 FTE	18 800	50.6	3.3	0.9	7.2	3.4	28.8	0.5	4.2	1.1
100-499 FTE	17 818	51.8	2.5	1.1	6.0	2.5	30.0	0.7	4.2	1.2
500-999 FTE	5 458	55.4	2.3	0.8	4.1	1.8	29.9	0.8	3.2	1.7
>999 FTE	21 842	53.0	1.7	0.8	4.9	1.5	32.9	1.0	3.2	1.1

Note: all variables are categorical. Shown results are row percentages and should be interpreted as differences between the columns (clusters).

Abbreviations:

[a] Clust = cluster

[b] Back, head, neck, spine and torso

[c] Torso, back, neck, spine and head

[d] Business, finance and administration

[e] Natural and applied sciences, related occupations

[f] Social science, education, government, service and religion

[g] Recreation, arts, culture and sport

[h] Trades, transport, equipment operators and related occupations

[i],Manufacturing, processing and utilities

Names clusters:

1. Sustainable RTW
2. Short delayed RTW
3. Long delayed RTW-preceded by MRTW
4. Long delayed RTW-preceded by SA
5. Deferred SA
6. Constant SA
7. Late NRTW
8. Early NRTW
9. Unclassifiable