

Supplemental digital content

Supplement Table 1. Beta estimates from the final model fit, for the intercept and each parameter, fitted at each of the 20 intervals, presented for the first 10 intervals regarding sickness absence (SA) spells due to back pain

Predictors	Betas by piecewise intervals 1-10									
	1	2	3	4	5	6	7	8	9	10
Intercept	-4.222	-5.691	-4.730	-3.745	-3,928	-3,587	-4,178	-3,674	-3,692	-4,449
Geographical region										
Middle	Reference									
North	-0.098	-0.013	-0.049	-0.182	-0.090	-0.082	-0.094	-0.121	0.207	-0.067
Stockholm/Gotland	0.083	0.015	-0.080	-0.068	-0.155	-0.016	-0.069	0.028	0.198	0.012
South	0.170	0.123	-0.009	-0.088	-0.056	0.002	0.058	0.003	0.095	0.070
West	0.044	0.051	-0.030	-0.085	-0.061	-0.102	0.0180	0.051	0.038	0.026
Sex										
Female	Reference									
Male	-0.160	-0.182	-0.059	0.087	0.019	-0.043	0.007	0.165	0.018	0.079
Age groups										
17-29 years	Reference									
30-39 years	0.195	0.290	0.086	0.103	0.271	-0.009	-0.063	-0.175	-0.154	-0.176
40-49 years	0.200	0.448	0.250	0.189	0.500	0.070	-0.035	-0.014	-0.228	-0.188
50-56 years	0.395	0.473	0.328	0.224	0.645	0.082	0.063	0.013	-0.020	-0.085
57-63 years	0.4974	0.641	0.278	0.183	0.552	0.011	-0.005	0.018	-0.005	-0.113
Employment status										
Parental leave	Reference									
Student	-11.835	-10.660	-10.680	-12.046	0.628	0.026	-11.742	-10.594	0.069	-10.837
Unemployed	-1.1688	-0.580	-0.773	-1.589	-1.016	-1.230	-0.983	-1.018	-0.997	-1.073
Employed	-1.2704	-0.108	-0.047	-0.419	-0.084	-0.582	-0.034	0.030	-0.202	-0.009
Gross days of SA during the year before										
>180 and ≤366	-0.438	-0.675	-0.619	-0.803	-0.786	-0.888	-0.692	-1.045	-1.126	-0.886
>90 and ≤180	-0.082	-0.139	-0.445	-0.439	-0.372	-0.429	-0.230	-0.247	-0.326	-0.475
>0 and ≤90	Reference									
0	0.307	0.244	0.073	0.158	0.161	0.023	0.120	0.084	-0.006	0.190
Extent of SA at the start of the SA spell										
Part-time	Reference									
Full-time	1.300	1.658	1.293	0.704	0.849	0.898	0.617	0.265	0.297	0.838
Multi-morbidity¹										
No	Reference									
Yes	-0.056	-0.042	-0.182	-0.105	-0.083	-0.221	-0.151	-0.085	-0.190	-0.093
The SA spell was initiated in the primary healthcare										
Yes	Reference									
No	0.194	0.315	0.251	0.302	0.242	0.123	0.316	0.130	0.115	0.131
Number of outpatient care visits during the 365 days before the SA spells										
0	Reference									
1-2	-0.027	-0.036	-0.137	-0.122	-0.134	-0.091	-0.106	-0.129	-0.112	-0.081
>2	-0.036	-0.183	-0.151	-0.136	-0.086	-0.145	-0.092	-0.295	-0.125	-0.076

¹ at least three different types of medication (different ATC codes) at least once.

Supplement table 2 Beta estimates from the final model fit, for the intercept and each parameter, fitted at each of the 20 intervals. presented for the last 10 intervals regarding sickness absence (SA) spells due to back pain

Predictors	Betas by piecewise intervals 11-20									
	11	12	13	14	15	16	17	18	19	20
Intercept	-4.083	-4.262	-4.418	-4.108	-4.132	-4.098	-4.421	-5.666	-5.797	-4.178
Geographical regions										
Middle	Reference									
North	-0.214	-0.034	0.065	-0.005	-0.063	-0.028	-0.103	0.002	-0.075	0.019
Stockholm/Gotland	-0.013	0.024	0.021	0.065	0.095	0.209	-0.021	0.207	0.038	0.241
South	-0.006	-0.083	-0.038	-0.130	0.008	-0.035	-0.046	-0.131	-0.190	-0.112
West	-0.008	0.089	-0.028	-0.023	0.024	0.115	-0.008	0.040	-0.042	-0.004
Sex										
Female	Reference									
Male	0.079	0.044	0.085	-0.006	0.015	-0.021	0.056	0.079	0.006	-0.053
Age groups										
17-29 years	Reference									
30-39 years	-0.117	-0.126	-0.095	-0.318	-0.263	-0.403	-0.375	-0.256	-0.090	0.0223
40-49 years	-0.091	-0.287	-0.145	-0.426	-0.382	-0.631	-0.650	-0.486	-0.295	-0.284
50-56 years	-0.145	-0.227	-0.142	-0.429	-0.450	-0.773	-0.719	-0.554	-0.366	-0.575
57-63 years	-0.188	-0.217	-0.132	-0.459	-0.522	-0.854	-0.705	-0.528	-0.327	-0.823
Employment status										
Parental leave	Reference									
Student	1.908	0.942	-10.834	-10.943	0.610	-11.342	-11.327	0.422	-11.948	2.110
Unemployed	-0.827	-0.973	-1.271	-1.024	-0.862	-0.9603	-1.135	-1.010	-1.174	0.260
Employed	0.021	0.087	0.035	0.116	-0.008	0.044	0.061	0.343	-0.249	0.534
Gross days of SA during the 365 days before start of the SA spell										
>180 and ≤366	-1.268	-0.972	-0.986	-1.303	-1.090	-0.900	-0.884	-0.581	-0.701	-0.093
>90 and ≤180	-0.443	-0.304	-0.356	-0.238	-0.199	-0.113	-0.149	-0.137	-0.111	0.024
>0 and ≤90	Reference									
0	0.007	0.037	0.092	0.041	-0.012	0.021	-0.041	-0.071	-0.302	0.057
Extent of SA at the start of the SA spell										
Part time	Reference									
Full-time	0.345	0.411	0.188	-0.021	-0.076	-0.333	-0.037	0.241	0.385	0.610
Multi-morbidity¹										
No	Reference									
Yes	-0.124	-0.110	-0.313	-0.108	-0.223	-0.203	-0.273	-0.206	-0.221	-0.0371
The SA spell was initiated in the primary healthcare										
Yes	Reference									
No	0.054	0.023	0.095	-0.015	-0.038	-0.141	0.010	0.023	-0.059	-0.037
Number of outpatient health care visits during the 365 days before the SA spells										
0	Reference									
1-2	-0.040	-0.019	0.093	-0.002	-0.166	-0.009	-0.157	-0.062	-0.117	-0.049
>2	-0.207	-0.199	0.0305	-0.061	-0.099	-0.103	-0.133	-0.181	-0.138	-0.156

¹ at least three different types of medication (different ATC codes) at least once.