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Time course of neck-shoulder pain among workers: A longitudinal latent class growth analysis [1]

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1 *Supplementary material*

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Table S1. Model fit indices for consecutive latent class growth analysis (LCGA) models with 1-10 classes.

LCGA model	BIC	Entropy	BLRT[a] p-value
1 class	47114.32	1	..
2 classes	39240.18	0.9706	<0.0001
3 classes	32934.62	0.9632	<0.0001
4 classes	30763.41	0.9461	<0.0001
5 classes	29822.53	0.9288	<0.0001
6 classes	29262.6	0.9176	<0.0001
7 classes	28793.12	0.9117	<0.0001
8 classes	28477.28	0.9033	<0.0001
9 classes	28221.83	0.8856	<0.0001
10 classes	28028.53	0.8802	<0.0001

Abbreviations: BIC, Bayesian information criterion (BIC); BLRT, Boot strap log likelihood ratio test.
[a]The BLRT p-value was determined by comparing each LCGA (2-10 classes) with the model with one fewer class.

Table S2. Growth parameters (intercept, slope and error variance) obtained in latent class growth analysis (LCGA) models with 1-10 classes.

	Class modality									
	class 1	class 2	class 3	class 4	class 5	class 6	class 7	class 8	class 9	class 10
Model 1										
Intercept	2.82									
Slope	-0.04									
Error	7.18									
Model 2										
Intercept	0.57	4.15								
Slope	-0.02	-0.05								
Error	0.68	6.83								
Model 3										
Intercept	0.00	1.39	5.02							
Slope	0.00	-0.04	-0.05							
Error	0.00	2.05	6.06							
Model 4										
Intercept	0.00	0.76	2.88	6.01						
Slope	0.00	-0.03	-0.06	-0.03						
Error	0.00	0.78	4.15	4.35						
Model 5										
Intercept	0.00	0.64	1.90	4.38	6.70					
Slope	0.00	-0.04	-0.05	-0.07	0.00					
Error	0.00	0.47	2.62	4.82	3.03					
Model 6										
Intercept	0.00	0.46	1.05	2.63	5.04	6.97				
Slope	0.00	-0.03	-0.03	-0.06	-0.07	0.02				
Error	0.00	0.26	1.18	3.95	3.99	2.58				
Model 7										
Intercept	0.00	0.50	1.13	2.87	3.05	5.17	7.04			
Slope	0.00	-0.04	-0.03	-0.08	-0.05	-0.06	0.02			

Error	0.00	0.29	1.35	6.34	1.55	3.52	2.53			
Model 8										
Intercept	0.00	0.49	1.09	2.72	2.88	4.49	5.92	7.36		
Slope	0.00	-0.04	-0.03	-0.05	-0.08	-0.06	-0.04	0.01		
Error	0.00	0.28	1.32	1.35	6.38	2.22	4.39	1.39		
Model 9										
Intercept	0.00	0.38	0.97	2.03	2.78	3.63	4.54	6.18	7.46	
Slope	0.00	-0.03	-0.04	-0.07	-0.04	-0.04	-0.07	-0.04	0.02	
Error	0.00	0.21	0.97	3.37	1.21	7.95	2.24	3.84	1.24	
Model 10										
Intercept	0.00	0.38	0.97	2.06	2.69	3.53	4.42	5.28	6.60	7.26
Slope	0.00	-0.03	-0.04	-0.07	-0.04	-0.03	-0.08	0.00	-0.07	0.01
Error	0.00	0.21	0.97	3.36	1.11	8.10	2.35	1.52	5.17	1.16

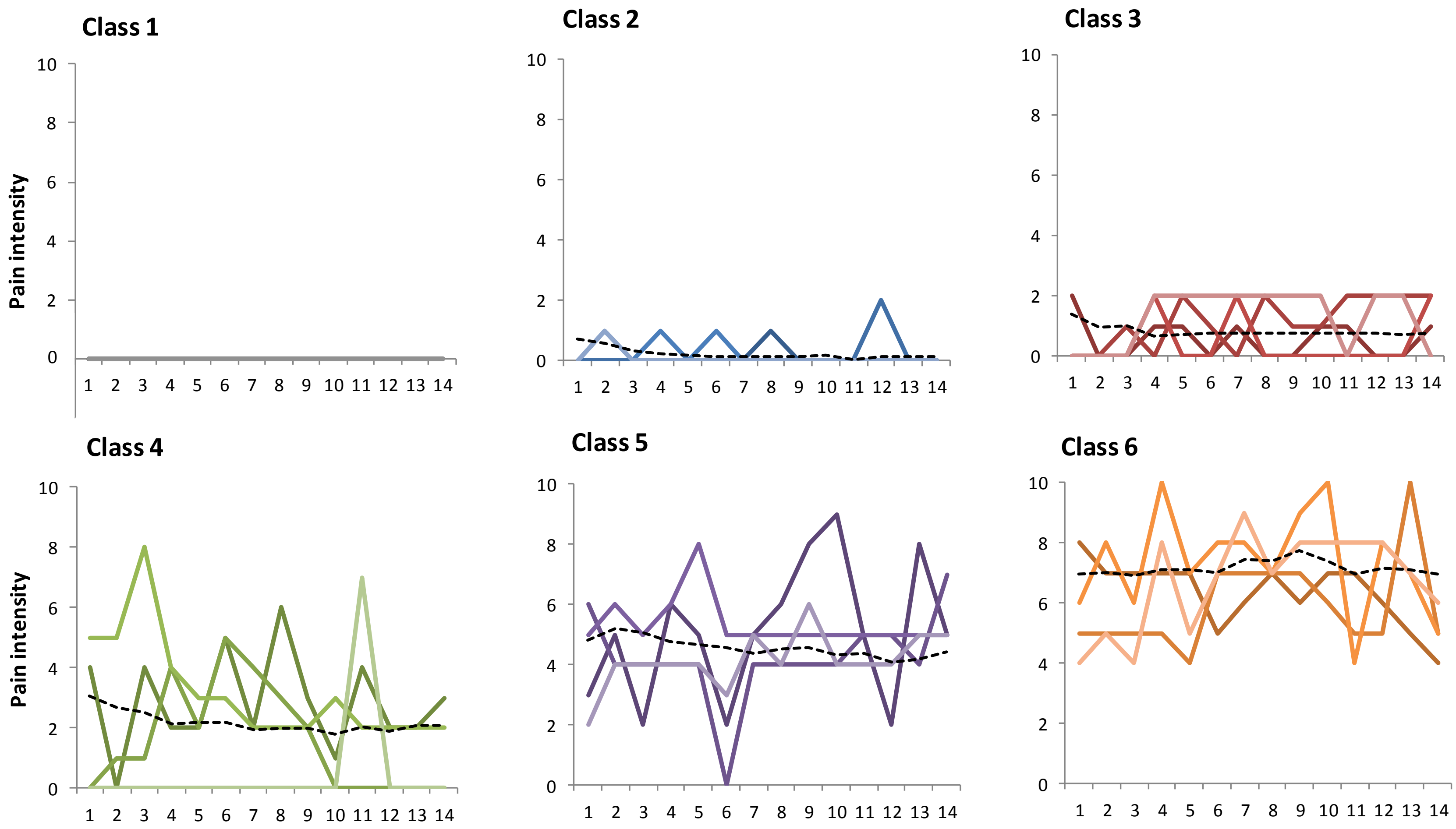

Figure S1. Individual time course of neck shoulder pain in a random sub-sample of workers in the six trajectory classes, obtained using latent class growth analysis (LCGA). The x-axis represents the 14 pain ratings over time; the y-axis represents pain intensity; and dotted line represents the mean value across all subjects within each trajectory class.