

Supplementary materials

Table S1a-d: Descriptives of stage 2 data collection in German, French, English and Swedish

Table S2a-d:

Table S3a-d:

Figure S1a-d: Scree plots of the Principal Component Analyses in German, French, English and Swedish data

Item	Missing (%)	Floor: score=0 (%)	Ceiling: score=4 (%)	Low relevance: score = 0 or 1 (%)
Q1	0	13.0	16.0	5.0
Q2	1	25.3	8.1	0.0
Q3	2	31.6	6.1	2.0
Q4	5	14.7	6.3	3.1
Q5	0	13.0	60.0	9.0
Q6	2	38.8	3.1	4.0
Q7	0	31.0	6.0	4.0
Q8	2	7.1	3.1	7.1
Q9	1	12.1	7.1	4.0
Q10	1	11.1	12.1	5.1
Q11	0	14.0	59.0	11.0
Q12	1	3.0	14.1	3.0
Q13	2	9.2	12.2	6.0
Q14	2	7.1	30.6	5.1
Q15	1	29.3	22.2	20.2
Q16	1	24.2	11.1	5.0
Q17	1	36.4	1.0	6.0
Q18	4	21.9	2.1	9.1
Q19	2	28.6	8.2	5.0
Q20	0	46.0	12	4.0
Q21	3	27.8	4.1	2.0
Q22	2	32.7	17.3	10.1
Q23	6	28.7	9.6	6.1
Q24	2	28.6	3.1	3.0
Q25	1	6.1	27.3	10
Q26	3	22.7	18.6	6.0
Q27	1	6.1	19.2	5.0
Q28	0	3.0	57.0	13.0
Q29	1	9.1	22.2	7.1
Q30	2	23.5	12.2	40.0
Q31	2	7.1	14.3	5.0
QS1	12	60.2	2.3	12.2
QS2	18	57.3	1.2	16.3
QS3	14	41.9	2.3	15.9
QS4	20	65.0	5.0	22.1
QS5	18	59.8	6.1	25.3
QS6	14	48.8	5.8	28.1
QS7	20	50.0	7.5	24.7

Table S1a: Descriptives of Stage 2 German data

Item	Missing (%)	Floor: score=0 (%)	Ceiling: score=4 (%)	Low relevance: score = 0 or 1 (%)
Q1	0.0	3.0	27.0	4.0
Q2	2.0	15.3	14.3	2.0
Q3	2.0	24.5	12.2	2.1
Q4	23.0	11.7	37.7	9.9
Q5	4.0	7.3	71.9	18.9
Q6	3.0	17.5	11.3	4.2
Q7	3.0	20.6	7.2	2.1
Q8	7.0	7.5	7.5	3.2
Q9	5.0	3.2	18.9	7.5
Q10	4.0	2.1	14.6	4.3
Q11	5.0	4.2	60.0	14.1
Q12	5.0	13.7	9.5	5.4
Q13	7.0	1.1	29.0	7.7
Q14	8.0	4.3	60.9	5.7
Q15	7.0	30.1	17.2	5.4
Q16	4.0	13.5	30.2	8.5
Q17	10.0	26.7	11.1	2.3
Q18	9.0	16.5	12.1	4.5
Q19	6.0	24.5	28.7	4.4
Q20	8.0	27.2	18.5	13.2
Q21	8.0	14.1	20.7	6.7
Q22	5.0	32.6	13.7	4.3
Q23	21.0	12.7	25.3	2.5
Q24	4.0	29.2	10.4	3.3
Q25	5.0	9.5	36.8	7.5
Q26	6.0	10.6	39.4	6.4
Q27	7.0	1.1	5.5	5.5
Q28	7.0	3.2	68.8	12.0
Q29	17.0	7.2	44.6	18.5
Q30	8.0	27.2	19.6	31.5
Q31	11.0	6.7	29.2	6.7
QS1	29.0	36.6	11.3	13.7
QS2	33.0	28.4	11.9	7.2
QS3	37.0	58.7	6.3	16.4
QS4	34.0	48.5	6.1	23.5
QS5	31.0	8.7	15.9	18.3
QS6	32.0	11.8	17.6	14.7
QS7	36.0	21.9	10.9	13.8

Table S1b: Descriptives of Stage 2 French data

Item	Missing (%)	Floor: score=0 (%)	Ceiling: score=4 (%)	Low relevance: score = 0 or 1 (%)
Q1	1.0	9.1	31.0	19.1
Q2	1.0	22.2	8.1	12.6
Q3	1.0	28.3	9.1	11.7
Q4	8.0	2.2	41.3	36.0
Q5	0.0	4.0	33.0	47.3
Q6	0.0	21.0	16.0	15.2
Q7	2.0	26.0	7.1	14.7
Q8	8.0	4.3	12.0	10.3
Q9	6.0	4.3	20.2	19.8
Q10	5.0	1.1	15.8	19.5
Q11	7.0	3.2	74.2	21.3
Q12	6.0	3.2	16.0	13.6
Q13	5.0	2.1	26.3	24.7
Q14	5.0	9.5	42.1	31.1
Q15	1.0	33.3	22.2	19.4
Q16	1.0	16.2	36.4	34.0
Q17	3.0	30.9	8.2	15.8
Q18	3.0	26.8	11.3	13.0
Q19	3.0	23.7	22.7	21.1
Q20	1.0	19.2	38.4	27.7
Q21	2.0	17.3	17.3	13.8
Q22	3.0	28.9	25.8	23.1
Q23	7.0	5.4	33.3	33.3
Q24	3.0	28.9	13.4	18.9
Q25	3.0	1.0	41.2	35.9
Q26	3.0	24.7	32.0	24.4
Q27	3.0	1.0	48.5	34.8
Q28	3.0	1.0	72.2	43.5
Q29	3.0	2.1	46.4	31.6
Q30	1.0	25.3	23.2	30.9
Q31	1.0	1.0	45.5	27.7
QS1	30.0	30.0	7.1	7.8
QS2	33.0	41.8	7.5	10.9
QS3	33.0	38.8	6.0	13.8
QS4	35.0	30.8	12.4	20.3
QS5	33.0	7.5	34.3	24.6
QS6	32.0	16.2	35.3	20.3
QS7	32.0	36.8	14.7	14.1

Table S1c: Descriptives of Stage 2 English data

Item	Missing (%)	Floor: score=0 (%)	Ceiling: score=4 (%)	Low relevance: score = 0 or 1 (%)
Q1	1.9	7.6	10.5	3.9
Q2	2.8	32.7	4.8	2.9
Q3	4.7	45.1	2.9	3.0
Q4	7.5	9.1	21.2	6.2
Q5	2.8	5.8	73.1	26.8
Q6	3.7	37.9	4.9	3.9
Q7	1.9	35.2	1.9	2.9
Q8	3.7	28.2	3.9	5.8
Q9	2.8	3.8	8.7	9.6
Q10	2.8	3.8	11.5	7.8
Q11	2.8	4.8	59.6	23.0
Q12	0.9	23.6	2.8	4.0
Q13	0.9	7.5	18.9	15.4
Q14	2.8	6.7	31.7	15.7
Q15	2.8	40.4	6.7	10.0
Q16	0.9	16.0	17.9	13.0
Q17	1.9	58.1	1.0	3.9
Q18	0.9	24.5	4.7	3.7
Q19	0.9	21.7	11.3	5.9
Q20	2.8	26.0	17.3	10.7
Q21	0.9	17.0	2.8	6.0
Q22	0.9	39.6	8.5	12.7
Q23	5.6	12.9	19.8	6.2
Q24	2.8	31.7	4.8	6.9
Q25	2.8	1.9	46.2	25.7
Q26	1.9	28.6	13.3	4.0
Q27	3.7	4.9	24.3	9.0
Q28	1.9	4.8	74.3	32.0
Q29	1.9	5.7	45.7	23.2
Q30	4.7	33.3	14.7	33.3
Q31	2.8	6.7	21.2	8.9
QS1	10.3	40.6	5.2	6.4
QS2	10.3	50.0	5.2	6.5
QS3	10.3	47.9	4.2	10.8
QS4	17.8	42.0	10.2	9.5
QS5	18.7	26.4	10.3	15.5
QS6	15.9	37.8	11.1	14.1
QS7	17.8	45.5	10.2	6.0

Table S1d: Descriptives of Stage 2 Swedish data

	Component		
	1	2	3
Q1		-.757	
Q2		-.831	
Q3		-.816	
Q4	.623		
Q5	.874		
Q6	.645		
Q7		-.900	
Q8	.487		
Q9	.610		
Q10	.543		
Q11	.889		
Q12		-.759	
Q13		-.697	
Q14			
Q15			.821
Q16			
Q17		-.826	
Q18	.667		
Q19	.603		
Q20	.457		.402
Q21	.588		
Q22			.792
Q23	.655		
Q24		-.556	
Q25	.607		
Q26		-.558	
Q27			
Q28	.667		
Q29	.492		
Q30			.594
Q31	.727		

Table S2a: Structure matrix of the PCA in German data (General items only)

	Component	
	1	2
Q1	.516	.558
Q2	.801	
Q3	.806	
Q4	.520	.418
Q5	.425	.721
Q6	.817	
Q7	.884	
Q8	.861	
Q9	.830	
Q10	.798	.454
Q11	.527	.801
Q12	.809	
Q13	.691	.498
Q14	.457	.597
Q15		.513
Q16		
Q17	.859	
Q18	.878	
Q19	.822	
Q20	.625	.472
Q21	.835	
Q22		
Q23	.713	.493
Q24	.844	.401
Q25	.593	.527
Q26	.411	
Q27	.679	.653
Q28		
Q29		
Q30		.535
Q31	.663	.585

Table S2b: Structure matrix of the PCA in French data (General items only)

	Component	
	1	2
Q1	.728	
Q2	.672	
Q3	.748	
Q4	.527	.486
Q5		.771
Q6	.487	
Q7	.847	
Q8	.679	
Q9	.724	.435
Q10	.663	
Q11		.819
Q12	.491	
Q13	.645	
Q14	.605	.509
Q15	.518	
Q16	.621	.487
Q17	.832	
Q18	.708	.495
Q19	.711	
Q20	.691	
Q21	.795	
Q22	.538	
Q23	.612	.577
Q24	.773	
Q25	.690	.451
Q26	.727	
Q27	.703	.452
Q28	.477	.667
Q29		.613
Q30		
Q31	.590	.483

Table S2c: Structure matrix of the PCA in English data (General items only)

	Component		
	1	2	3
Q1	.595		
Q2	.871		
Q3	.824		
Q4		.817	
Q5		.621	
Q6	.466	.506	
Q7	.810		
Q8	.805		
Q9	.602	.508	
Q10	.610	.501	
Q11		.732	
Q12	.809		
Q13	.556		
Q14			
Q15			.727
Q16			
Q17	.743		
Q18	.449	.591	
Q19	.549	.569	
Q20		.624	
Q21	.461	.623	
Q22			.757
Q23		.756	
Q24	.697	.498	
Q25		.735	
Q26	.558		
Q27	.400	.482	
Q28		.595	
Q29			.402
Q30			.639
Q31	.507	.495	

Table S2d: Structure matrix of the PCA in Swedish data (General items only)

	Corrected Item- Total Correlation	Cronbach's Alpha if Item Deleted
Q4	.733	.932
Q5	.586	.936
Q6	.698	.933
Q8	.670	.934
Q9	.740	.932
Q10	.751	.932
Q11	.682	.934
Q18	.734	.933
Q19	.686	.934
Q21	.639	.935
Q23	.751	.932
Q25	.682	.933
Q28	.673	.934
Q29	.530	.938
Q31	.797	.931

	Corrected Item- Total Correlation	Cronbach's Alpha if Item Deleted
Q1	.673	.913
Q2	.767	.907
Q3	.789	.905
Q7	.881	.899
Q12	.661	.914
Q13	.568	.920
Q17	.792	.906
Q24	.705	.911
Q26	.618	.918

	Corrected Item- Total Correlation	Cronbach's Alpha if Item Deleted
Q15	.643	.395
Q22	.610	.446
Q30	.292	.823

Table S3a: scale analysis for individual items in the German data. Top: Principal Component (PC) function; middle: PC pain; bottom: PC footwear.

	Corrected Item- Total Correlation	Cronbach's Alpha if Item Deleted
Q1	.586	.959
Q2	.713	.958
Q3	.665	.959
Q4	.567	.960
Q5	.512	.960
Q6	.707	.958
Q7	.784	.958
Q8	.783	.958
Q9	.811	.957
Q10	.791	.958
Q11	.627	.959
Q12	.713	.958
Q13	.686	.959
Q14	.532	.960
Q17	.728	.958
Q18	.812	.957
Q19	.796	.958
Q20	.560	.960
Q21	.813	.957
Q23	.746	.958
Q24	.827	.957
Q25	.675	.959
Q26	.439	.961
Q27	.718	.958
Q31	.709	.958

Table S3b: Scale analysis for individual items in French data. PC pain/function only. All items loading on the second PC were excluded prior to this step, therefore no scale analysis for PC2 was performed.

	Corrected Item- Total Correlation	Cronbach's Alpha if Item Deleted
Q1	.671	.918
Q2	.612	.920
Q3	.660	.919
Q6	.469	.923
Q7	.806	.915
Q8	.603	.920
Q10	.624	.920
Q12	.460	.923
Q13	.588	.920
Q15	.518	.923
Q17	.765	.916
Q19	.631	.919
Q20	.600	.920
Q21	.778	.915
Q22	.542	.922
Q24	.702	.917
Q26	.643	.919

	Corrected Item- Total Correlation	Cronbach's Alpha if Item Deleted
Q5	.529	.517
Q11	.643	.340
Q29	.308	.810

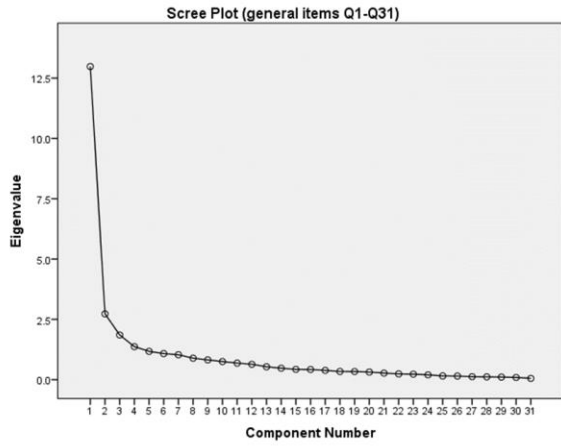
Table S3c: Scale analysis for individual items in English data. Top: PC pain/function/footwear, bottom: PC device use / sensation.

	Corrected Item- Total Correlation	Cronbach's Alpha if Item Deleted
Q1	.626	.907
Q2	.833	.893
Q3	.739	.900
Q7	.783	.897
Q8	.764	.898
Q12	.803	.896
Q13	.552	.913
Q17	.691	.903
Q26	.547	.916

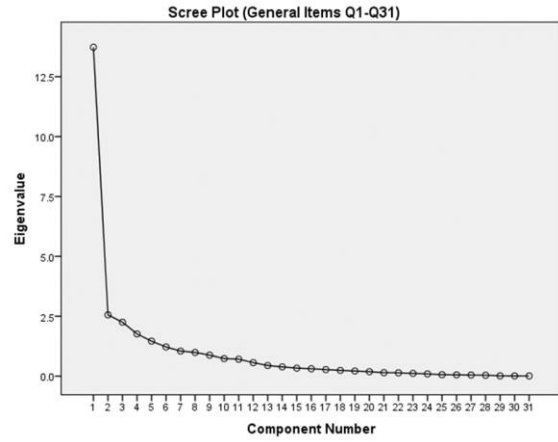
	Corrected Item- Total Correlation	Cronbach's Alpha if Item Deleted
Q4	.726	.798
Q5	.555	.824
Q11	.680	.805
Q20	.469	.846
Q23	.666	.807
Q25	.648	.810
Q28	.477	.836

	Corrected Item- Total Correlation	Cronbach's Alpha if Item Deleted
Q15	.539	.487
Q22	.531	.489
Q29	.243	.676
Q30	.390	.601

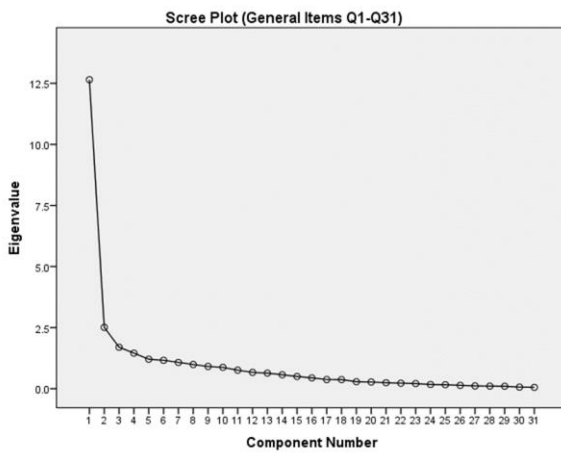
Table S3d: Scale analysis for individual items in Swedish data. Top: PC pain; Middle: PC function; bottom: PC footwear.



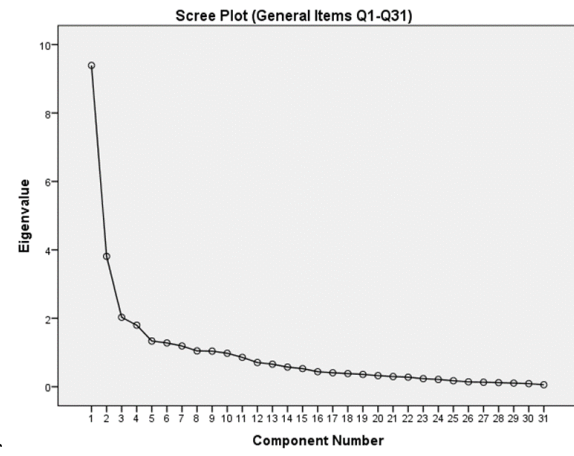
A



B



C



D

Figure S1a-d: Scree plots of the PCA (general items only) in German (A), French (B), English (C) and Swedish (D) data.