

Table S1

Confirmatory Factor Analysis (standardized coefficients) and frequency distribution for the questionnaire in the study

	CFA: standardized results					Frequency distribution					Correlation item-scale
	Coeff.	SE	<i>p</i>	95%CI (coeff)		<i>Min</i>	<i>Max</i>	<i>Median</i>	<i>Mean</i>	<i>SD</i>	
<i>F1. Pain intensity and interference</i>						0	71	19	20.8	14.6	
Worst pain	.734	.010	<0.001	.714	.755	0	10	5	5.1	2.9	.657
Least pain	.627	.013	<0.001	.602	.651	0	10	1	1.8	1.9	.551
How often in severe pain	.757	.010	<0.001	.737	.776	0	1	0.2	0.24	0.24	.709
Interference with in-bed activities	.704	.011	<0.001	.683	.724	0	10	4	4.2	3.1	.687
Interference with breathing coughing	.460	.016	<0.001	.428	.491	0	10	1	2.3	3.0	.520
Interference with sleep	.665	.012	<0.001	.642	.688	0	10	2	2.8	3.2	.628
Interference with out of bed activities	.709	.013	<0.001	.683	.735	0	10	3	3.7	3.0	.665
Feeling anxious	.586	.013	<0.001	.561	.610	0	10	1	2.4	3.0	.653
Feeling helpless	.573	.013	<0.001	.547	.599	0	10	0	2.0	2.9	.599
<i>F2. Adverse Effects</i>						0	40	4	6.2	6.9	
Nausea	.614	.015	<0.001	.585	.643	0	10	0	1.9	3.0	.428
Drowsiness	.501	.017	<0.001	.468	.534	0	10	0	2.4	3.0	.366
Itching	.319	.018	<0.001	.283	.355	0	10	0	0.6	1.6	.248
Dizziness	.703	.015	<0.001	.673	.732	0	10	0	1.5	2.5	.499
<i>F3. Perceptions of care</i>						0	21	11	11.7	6.4	
Pain relief	.534	.020	<0.001	.496	.572	0	1	0.7	0.66	0.31	.328
Allowed to participate in treatment	.381	.018	<0.001	.346	.417	0	10	5	4.9	4.0	.323
Satisfaction with pain treatment	.870	.023	<0.001	.825	.915	0	10	9	8.1	2.3	.349

Note. Min: minimum. Max: maximum. SD: standard deviation. (*n*=4,014)

1 **Table S2 Multigroup Confirmatory Factor Analysis testing invariance (standardized coefficients)**

	Gender		Age		Surgery type			Previous pain		Current Smoker		Affective disorders		Obesity ^b	
	Women	Men	16 to 63	63 to 109	General	Orthop.	Others ^a	No	Yes	No	Yes	No	Yes	No	Yes
<i>F1. Pain intensity and interference</i>															
Worst pain	0.735	0.734	0.760	0.687	0.748	0.723	0.744	0.727	0.736	0.709	0.712	0.702	0.747	0.702	0.718
Least pain	0.631	0.618	0.631	0.611	0.648	0.607	0.678	0.646	0.619	0.611	0.619	0.609	0.650	0.606	0.604
How often in severe pain	0.770	0.736	0.750	0.754	0.785	0.741	0.817	0.765	0.754	0.764	0.729	0.754	0.797	0.741	0.788
Interference with in-bed activities	0.713	0.686	0.700	0.687	0.685	0.673	0.702	0.683	0.705	0.684	0.665	0.674	0.723	0.670	0.721
Interference breathing-coughing	0.466	0.446	0.443	0.473	0.331	0.477	0.358	0.425	0.469	0.457	0.436	0.447	0.485	0.456	0.480
Interference with sleep	0.669	0.653	0.666	0.660	0.687	0.639	0.713	0.663	0.665	0.659	0.629	0.658	0.652	0.655	0.670
Interference with out of bed	0.723	0.683	0.714	0.678	0.702	0.671	0.715	0.689	0.708	0.694	0.670	0.687	0.730	0.677	0.738
Feeling anxious	0.586	0.591	0.591	0.580	0.602	0.562	0.614	0.584	0.587	0.623	0.586	0.618	0.617	0.611	0.678
Feeling helpless	0.573	0.568	0.564	0.580	0.580	0.554	0.588	0.563	0.574	0.601	0.607	0.594	0.642	0.595	0.649
<i>F2. Adverse effects</i>															
Nausea	0.610	0.599	0.656	0.554	0.635	0.593	0.569	0.628	0.593	0.586	0.651	0.557	0.553	0.606	0.576
Drowsiness	0.513	0.447	0.511	0.504	0.508	0.507	0.454	0.505	0.500	0.525	0.606	0.536	0.534	0.535	0.530
Itching	0.324	0.271	0.322	0.321	0.324	0.326	0.265	0.338	0.303	0.337	0.334	0.340	0.357	0.334	0.338
Dizziness	0.696	0.684	0.728	0.662	0.718	0.682	0.708	0.746	0.670	0.667	0.774	0.682	0.632	0.682	0.665
<i>F3. Perception of care</i>															
Pain relief	0.531	0.534	0.536	0.519	0.533	0.540	0.522	0.571	0.495	0.517	0.479	0.524	0.483	0.519	0.481
Allowed to participate in treatment	0.375	0.380	0.384	0.375	0.385	0.381	0.356	0.404	0.351	0.368	0.382	0.371	0.350	0.352	0.313
Satisfaction with pain treatment	0.878	0.869	0.882	0.864	0.887	0.849	0.868	0.904	0.832	0.889	0.921	0.892	0.840	0.896	0.881
Fitting indexes															
RMSEA (95%CI)	0.058 (0.055 -0.06)		0.059 (0.057-0.062)		0.077 (0.074 -0.079)			0.064 (0.061 -0.067)		0.056(0.054-0.059)		0.058(0.055-0.060)		0.055(0.052-0.058)	
CFI – TLI	0.918 - 0.908		0.912 -0.902		0.855 -0.844			0.900 -0.890		0.923-0.914		0.920-0.910		0.928-0.920	
Joint test of invariance	19.65 (<i>p</i> =.104)		22.76 (<i>p</i> =.045)		279.71 (<i>p</i> <.001)			102.88 (<i>p</i> <.001)		30.82(<i>p</i> =.004)		38.46(<.001)		34.56(<i>p</i> =.001)	

2 Note. Min: minimum. Max: maximum. SD: standard deviation. (*n*=4,014). ^a Others includes Gynecology, Urology, ENT, Ophthalmology, Cardiovascular and thoracic surgery ^b Obesity
3 defined as BMI of 30 or more.