

**Supplementary Table 3.** Comparison of pain characteristics between mild and moderate/severe Parkinson's disease

	Mild PD (n = 115)	Moderate to severe PD (n = 77)	Mann-Whitney test	
			Z	p value
KPPS-Arabic total score	22 (11–33)	32 (24.50–49.50)	-4.797	<0.001
Item 1: Pain around joints (musculoskeletal)	2 (0–4)	4 (3–6)	-3.782	<0.001
Item 2: Pain deep within the body	1 (0–4)	2 (0.50–6)	-2.917	0.004
Item 3: Pain related to internal organ	1 (0–2)	1 (0–2.50)	-1.755	0.079
Item 4: Dyskinetic pain	0 (0–3)	4 (0–7)	-4.846	<0.001
Item 5: "Off" dystonia in a region	1 (0–4)	2 (0–5)	-1.442	0.149
Item 6: Generalized "off" Period pain	0 (0–1)	2 (0–6)	-5.008	<0.001
Item 7: PLM or RLS-associated pain	1 (0–4)	2 (1–4)	-2.796	0.005
Item 8: Pain while turning in bed	1 (0–4)	4 (0.50–6)	-2.860	0.004
Item 9: Pain when chewing	0 (0–2)	1 (0–2)	-2.661	0.008
Item 10: Pain due to grinding teeth	0 (0–1)	0 (0–2)	-1.636	0.102
Item 11: Burning mouth syndrome	0 (0–1)	0 (0–3)	-3.133	0.002
Item 12: Burning pain in the limbs	0 (0–2)	2 (0–4)	-4.205	<0.001
Item 13: Lower abdominal pain	0 (0–2)	1 (0–2.50)	-1.259	0.208
Item 14: Shooting pain/pins and needles	1 (0–3)	2 (0–4)	-2.961	0.003
Domain 1: Musculoskeletal pain	2 (0–4)	4 (3–6)	-3.782	<0.001
Domain 2: Chronic pain	2 (0–5)	4 (2–7.50)	-2.923	0.003
Domain 3: Fluctuation-related pain	4 (0–8)	9 (4–15.50)	-4.837	<0.001
Domain 4: Nocturnal pain	4 (0–8)	7 (4–10)	-3.420	0.001
Domain 5: Oro-facial pain	1 (0–4)	3 (0–6)	-2.886	0.004
Domain 6: Discoloration; oedema/swelling	2 (0–4)	4 (2–6)	-3.150	0.002
Domain 7: Radicular Pain	1 (0–3)	2 (0–4)	-2.961	0.003
Total domains of KPPS-Arabic	5 (3–6)	6 (5–7)	-3.799	<0.001
Domain 1: Musculoskeletal pain	86 (74.8)	69 (89.6)	6.518	0.011
Domain 2: Chronic pain	83 (72.2)	64 (83.1)	3.078	0.079
Domain 3: Fluctuation-related pain	87 (75.7)	69 (89.6)	5.898	0.015
Domain 4: Nocturnal pain	85 (73.9)	65 (84.4)	2.977	0.084
Domain 5: Oro-facial pain	63 (54.8)	55 (71.4)	5.395	0.020
Domain 6: Discoloration; oedema/swelling	78 (67.8)	61 (79.2)	2.996	0.083
Domain 7: Radicular pain	60 (52.2)	53 (68.8)	5.284	0.022
KPPQ prevalence				
KPPQ total score	7 (4–9)	9 (6–11)	-3.624	<0.001
KPPQ items				
Q. 1: Pain around joints (musculoskeletal)*	86 (74.8)	69 (89.6)	6.518	0.011
Q. 2: Pain related to internal organ*	61 (53.0)	45 (58.4)	0.543	0.461
Q. 3: Lower abdominal pain*	51 (44.3)	44 (57.1)	3.020	0.082
Q. 4: Pain deep within the body*	51 (44.3)	52 (67.5)	9.969	0.002
Q. 5: Dyskinetic pain*	60 (52.2)	47 (61.0)	1.469	0.225
Q. 6: "Off" dystonia in a region*	63 (54.8)	58 (75.3)	8.351	0.004
Q. 7: Generalized "off" period pain*	45 (39.1)	46 (59.7)	7.857	0.005
Q. 8: PLM or RLS-associated pain*	62 (53.9)	49 (63.6)	1.788	0.181
Q. 9: Pain while turning in bed*	70 (60.9)	48 (62.3)	0.042	0.838
Q. 10: Pain when chewing*	36 (31.3)	35 (45.5)	3.963	0.047
Q. 11: Pain due to grinding teeth*	37 (32.2)	30 (39.0)	0.935	0.334
Q. 12: Burning mouth syndrome*	28 (24.3)	31 (40.3)	5.486	0.019
Q. 13: Burning pain in the limbs*	48 (41.7)	43 (55.8)	3.680	0.055
Q. 14: Shooting pain/pins and needles*	59 (51.3)	47 (61.0)	1.767	0.184
Reported pains by KPPQ*	111 (96.5)	77 (100.0)	2.735	0.098

Values are presented as n (%) or median (interquartile range). p value is significant if <0.05.

\*chi-square test was used.

PD, Parkinson's disease; KPPS, King's Parkinson's Disease Pain Scale; KPPQ, King's Parkinson's Disease Pain Questionnaire; PLM, periodic limb movements; RLS, restless legs syndrome.