

Supplementary material

Supplement Table 1. Spearman correlations of the somatosensory phenotype (PD-Q), depression (PHQ-9) and pain intensity (VAS) on patterns of sleep (MOS Sleep Scale) in patients with diabetic polyneuropathy (n=534).

	Sleep disturbance	Sleep adequacy	Sleep somnolence	Sleep quantity	PHQ-9 score
Burning	0.23 (p<0.001)	-0.17 (p<0.001)	0.16 (p<0.001)	-0.11 (p=0.009)	0.24 (p<0.001)
Prickling	0.23 (p<0.001)	-0.18 (p<0.001)	0.21 (p<0.001)	-0.12 (p=0.006)	0.22 (p<0.001)
Allodynia	0.32 (p<0.001)	-0.26 (p<0.001)	0.23 (p<0.001)	-0.25 (p<0.001)	0.27 (p<0.001)
Pain attacks	0.25 (p<0.001)	-0.19 (p<0.001)	0.18 (p<0.001)	-0.16 (p<0.001)	0.27 (p<0.001)
Thermal hyperalgesia	0.23 (p<0.001)	-0.21 (p<0.001)	0.15 (p<0.001)	-0.19 (p<0.001)	0.25 (p<0.001)
Numbness	0.15 (p<0.001)	-0.07 (n.s.)	0.18 (p<0.001)	-0.11 (p=0.011)	0.16 (p<0.001)
Pressure-evoked pain	0.32 (p<0.001)	-0.24 (p<0.001)	0.23 (p<0.001)	-0.23 (p<0.001)	0.30 (p<0.001)
PHQ-9 score	0.52 (p<0.001)	-0.55 (p<0.001)	0.48 (p<0.001)	-0.35 (p<0.001)	
Average pain (VAS)	0.32 (p<0.001)	-0.29 (p<0.001)	0.29 (p<0.001)	-0.19 (p<0.001)	0.43 (p<0.001)
Maximum pain (NRS)	0.30 (p<0.001)	-0.28 (p<0.001)	0.31 (p<0.001)	-0.21 (p<0.001)	0.37 (p<0.001)
Displayed are the Spearman correlation coefficients n.s., not significant					

Supplement Table 2. Spearman correlations of the somatosensory phenotype (PD-Q), depression (PHQ-9) and pain intensity (VAS) on patterns of sleep (MOS Sleep Scale) in patients with postherpetic neuralgia (n=1480).

	Sleep disturbance	Sleep adequacy	Sleep somnolence	Sleep quantity	PHQ-9 score
Burning	0.22 (p<0.001)	-0.20 (p<0.001)	0.14 (p<0.001)	-0.16 (p<0.001)	0.22 (p<0.001)
Prickling	0.15 (p<0.001)	-0.13 (p<0.001)	0.10 (p<0.001)	-0.08 (p=0.002)	0.19 (p<0.001)
Allodynia	0.17 (p<0.001)	-0.14 (p<0.001)	0.19 (p<0.001)	-0.12 (p<0.001)	0.21 (p<0.001)
Pain attacks	0.15 (p<0.001)	-0.14 (p<0.001)	0.20 (p<0.001)	-0.09 (p<0.001)	0.24 (p<0.001)
Thermal hyperalgesia	0.16 (p<0.001)	-0.14 (p<0.001)	0.17 (p<0.001)	-0.10 (p<0.001)	0.19 (p<0.001)
Numbness	0.13 (p<0.001)	-0.10 (p<0.001)	0.09 (p<0.001)	-0.06 (p=0.022)	0.19 (p<0.001)
Pressure-evoked pain	0.17 (p<0.001)	-0.10 (p<0.001)	0.18 (p<0.001)	-0.08 (p=0.003)	0.21 (p<0.001)
PHQ-9 score	0.46 (p<0.001)	-0.46 (p<0.001)	0.50 (p<0.001)	-0.30 (p<0.001)	
Average pain (VAS)	0.27 (p<0.001)	-0.26 (p<0.001)	0.28 (p<0.001)	-0.22 (p<0.001)	0.38 (p<0.001)
Maximum pain (NRS)	0.25 (p<0.001)	-0.24 (p<0.001)	0.27 (p<0.001)	-0.21 (p<0.001)	0.37 (p<0.001)
Displayed are the Spearman correlation coefficients					

Supplement Table 3. Correlations of the somatosensory phenotype (PD-Q), depression (PHQ-9) and pain intensity (VAS) on patterns of sleep (MOS Sleep Scale) in patients with complex regional pain syndrome (n=1316).

	Sleep disturbance	Sleep adequacy	Sleep somnolence	Sleep quantity	PHQ-9 score
Burning	0.23 (p<0.001)	-0.20 (p<0.001)	0.16 (p<0.001)	-0.24 (p<0.001)	0.22 (p<0.001)
Prickling	0.22 (p<0.001)	-0.17 (p<0.001)	0.17 (p<0.001)	-0.19 (p<0.001)	0.27 (p<0.001)
Allodynia	0.31 (p<0.001)	-0.26 (p<0.001)	0.23 (p<0.001)	-0.28 (p<0.001)	0.29 (p<0.001)
Pain attacks	0.24 (p<0.001)	-0.22 (p<0.001)	0.24 (p<0.001)	-0.21 (p<0.001)	0.26 (p<0.001)
Thermal hyperalgesia	0.29 (p<0.001)	-0.26 (p<0.001)	0.20 (p<0.001)	-0.25 (p<0.001)	0.29 (p<0.001)
Numbness	0.25 (p<0.001)	-0.20 (p<0.001)	0.17 (p<0.001)	-0.19 (p<0.001)	0.24 (p<0.001)
Pressure-evoked pain	0.27 (p<0.001)	-0.24 (p<0.001)	0.19 (p<0.001)	-0.23 (p<0.001)	0.27 (p<0.001)
PHQ-9 score	0.53 (p<0.001)	-0.53 (p<0.001)	0.55 (p<0.001)	-0.40 (p<0.001)	
Average pain (VAS)	0.29 (p<0.001)	-0.29 (p<0.001)	0.22 (p<0.001)	-0.28 (p<0.001)	0.33 (p<0.001)
Maximum pain (NRS)	0.26 (p<0.001)	-0.30 (p<0.001)	0.26 (p<0.001)	-0.26 (p<0.001)	0.33 (p<0.001)
Displayed are the Spearman correlation coefficients					