

Pain in Parkinson's disease throughout the disease progression

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OBJECTIVE

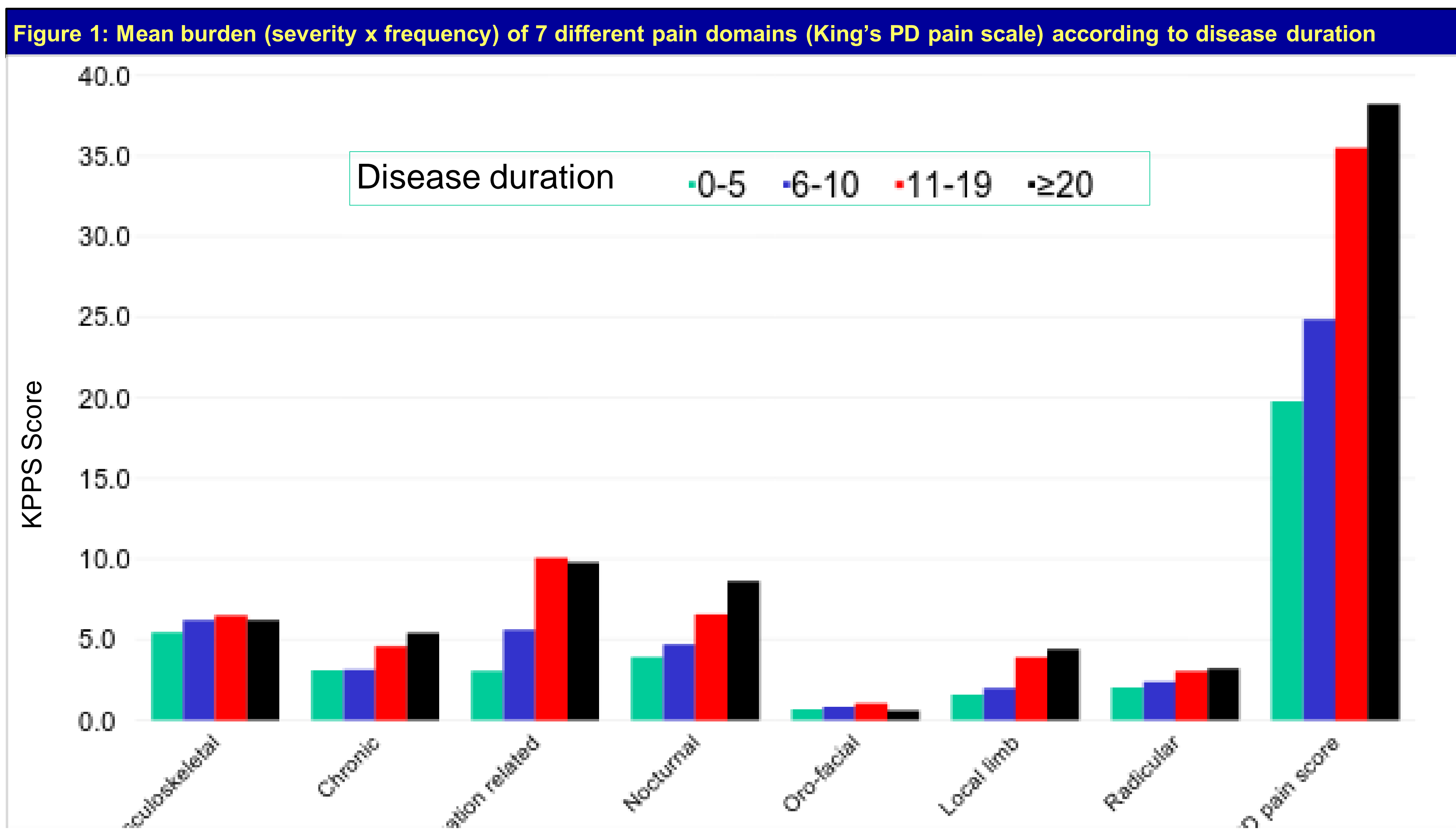
- To explore pain in different domains in Parkinson's disease throughout the disease duration.

BACKGROUND

Pain is a common non-motor symptom in Parkinson's disease (PD). Currently, it is unknown how pain evolves throughout the course of the disease. We used the validated King's PD pain scale (KPPS) (Chaudhuri et al. 2015) to analyse the burden of 7 different domains of pain in PD from early to advanced stages.

METHODS

This project is a cross-sectional, observational study addressing otherwise unexplained pain in PD. Patients completed standardized motor and non-motor assessments and the KPPS, which assesses the burden (severity multiplied by frequency) of 7 different domains of pain.



RESULTS

- In this ongoing study, data was collected from 337 patients in total. 212 patients had a disease duration (DD) of 0-5 years (age (mean ± SD), 65.0 ± 11.0 years), 73 patients had a DD of 6-10 years (age (mean ± SD), 65.1 ± 9.8 years), 47 had a DD between 11-19 years (age (mean ± SD), 68.4 ± 8.6 year) and 5 patients with ≥ 20 years (age (mean ± SD), 63.8 ± 6.4 years). In all domains, except musculoskeletal pain and oro-facial pain, the total burden of pain increases with the DD (figure 1).

Table 1 : Demographics	0-5 years DD	6-10 years DD	11-19 years DD	≥20 years DD
Number of patients	212	73	47	5
Male in %	59.4	64.4	61.7	40
Mean age in years (SD)	65.0±11.0	65.1±9.8	68.4±8.6	63.8±6.4
Mean disease duration in years	2.29	7.57	13.95	24
Mean Scopa Motor Score	14.94	20.08	24.59	38

SD = Standard deviation; Scopa = Scales for Outcomes in Parkinson's disease; DD = Disease duration

REFERENCE:
K. Ray Chaudhuri A. Rizos, C. Trenkwalder, O. Rascol, S. Pal et al. *King's Parkinson's Disease Pain Scale, the first scale for pain in PD: An international validation. Mov Disord. 2015 Oct;30(12):1623-31.*

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CONCLUSION

- Our results suggest that except musculoskeletal and oro-facial pain, the total burden of pain in all domains worsen with increasing disease duration.
- pain burden is reported to be worst in advanced disease stages.