ISSN: 2161-0460

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Clinical assessments rstly involved the Hoehn and Yahr scale [5] to recruit patients in the early-stages of their disease. A common validated scale used to measure the progression of Parkinson's symptoms and the level of disability, early-stage was de ned as any patient diagnosed with PD and a Hoehn and Yahr Stage of I or II. Stage I was de ned as symptoms on one side only (unilateral) and Stage II was de ned as symptoms on both sides (bilateral) but with no impairment of balance.

e Movement Disorder Society-Uni ed Parkinson's Disease Rating Scale (MDS-UPDRS) [6] is a common validated scale used to follow the

J Alzheimers Dis Parkinsonism 2021, 11:S5 ISSN: 2161-0460

Abdominal Pain	0.45 ± 0.52	0.22 ± 0.67
Bloating	0.83 ± 0.94	0.44 ± 0.73
Constipation	1.25 ± 1.22	0.22 ± 0.67
Hard Stools	1.25 ± 1.29	0.33 ± 0.50
Early Satiety	0.17 ± 0.39	0.33 ± 1.00
Dysphagia	0.08 ± 0.29	0.11 ± 0.33
Tenesmus	1.25 ± 0.87	0.22 ± 0.44
Ü^'č¢	0.58 ± 0.67	0.67 ± 1.00
Total	5.70 ± 3.59	2.50 ± 3.51

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Control Groups.

Pearson's Correlation test was used to determine the association between the total gastrointestinal symptoms questionnaire score and the UPDRS motor score. A weakly positive correlation was present (r=0.278), however, the result was not statistically signic cant (p=0.38).

Of the PD participants recruited for this study, 5 had Stage I and 7 had Stage II disease. e mean Hoehn and Yahr scale for participants was 1.58 ± 0.52 . Patients with Stage I reported symptoms as follows: tenesmus (80%), constipation (80%), hard stools (80%), bloating (60%), early satiety (40%), re ux (40%) abdominal pain (20%) and dysphagia (0%). Stage II participants reported all symptoms, but most common were tenesmus (85.7%), re ux (57.1%), abdominal pain (57.1%) and bloating (57.1%).

Di c ion

e results from this study show that patients with early-stage PD su er from a variety of di erent gastrointestinal tract symptoms. Early-stage PD patients showed an increased prevalence of lower gastrointestinal tract symptoms, in particular, tenesmus, constipation and hard stools. ese ndings complement the one previous study investigating symptoms in the early stages [8]. Our results also displayed the odds of having tenesmus in PD compared with controls

was 17.5 times more likely, whist a strong positive coom 1 (a)18 (v)-3 (in)8 (g m[(in)23 (2g m[54 (esm)ID 36(osi)2 (min)12 (f (d a)9 (n ieEMC /P <</Lan