

	Control (N=131)	PD (N=199)	P-value	Total (N=330)
age				
Mean (SD)	70.4 (8.60)	68.4 (9.14)	0.0326	69.2 (8.97)
Median [Min, Max]	71.0 [36.0, 88.0]	69.0 [44.0, 94.0]		70.0 [36.0, 94.0]
alcohol_amount				
0	38 (29.0%)	79 (39.7%)	0.0463	117 (35.5%)
1	92 (70.2%)	115 (57.8%)		207 (62.7%)
Missing	1 (0.8%)	5 (2.5%)		6 (1.8%)
alcohol_how_much				
2 drinks a day	12 (9.2%)	10 (5.0%)	0.00632	22 (6.7%)
None	38 (29.0%)	79 (39.7%)		117 (35.5%)
Less than 2 drinks a week	53 (40.5%)	51 (25.6%)		104 (31.5%)
2-6 drinks a week	14 (10.7%)	40 (20.1%)		54 (16.4%)
3 or more drinks a day	4 (3.1%)	2 (1.0%)		6 (1.8%)
1 drink a day	9 (6.9%)	12 (6.0%)		21 (6.4%)
Missing	1 (0.8%)	5 (2.5%)		6 (1.8%)
alcohol_started				
Mean (SD)	20.4 (5.55)	20.0 (6.71)	0.61	20.2 (6.21)
Median [Min, Max]	19.0 [14.0, 50.0]	18.0 [0.500, 56.0]		18.0 [0.500, 56.0]
Missing	54 (41.2%)	101 (50.8%)		155 (47.0%)
alzheimers_dementia				
No	128 (97.7%)	167 (83.9%)	0.0756	295 (89.4%)
Yes	1 (0.8%)	9 (4.5%)		10 (3.0%)
Missing	2 (1.5%)	23 (11.6%)		25 (7.6%)
amantadine				
Y	0 (0%)	50 (25.1%)	NA	50 (15.2%)
N	0 (0%)	137 (68.8%)		137 (41.5%)
Missing	131 (100%)	12 (6.0%)		143 (43.3%)
anorexia				
No	127 (96.9%)	190 (95.5%)	1	317 (96.1%)
Yes	0 (0%)	1 (0.5%)		1 (0.3%)
Missing	4 (3.1%)	8 (4.0%)		12 (3.6%)
anti_inflammatory				
Ibuprofen	3 (2.3%)	6 (3.0%)	0.491	9 (2.7%)
Advil asprin	2 (1.5%)	0 (0%)		2 (0.6%)
aspirin diclofenac	1 (0.8%)	0 (0%)		1 (0.3%)
diclofenac	2 (1.5%)	1 (0.5%)		3 (0.9%)
aspirin	23 (17.6%)	28 (14.1%)		51 (15.5%)
ibuprofen	6 (4.6%)	6 (3.0%)		12 (3.6%)
Ultram	0 (0%)	1 (0.5%)		1 (0.3%)
Advil	1 (0.8%)	5 (2.5%)		6 (1.8%)
ibuprofen aspirin	1 (0.8%)	2 (1.0%)		3 (0.9%)
asprin	1 (0.8%)	3 (1.5%)		4 (1.2%)
flurbiprofen aspirin	0 (0%)	1 (0.5%)		1 (0.3%)
Aleve	4 (3.1%)	4 (2.0%)		8 (2.4%)

	Control (N=131)	PD (N=199)	P-value	Total (N=330)
tylenol ibuprofen	0 (0%)	1 (0.5%)	0.738	1 (0.3%)
gabapentin	1 (0.8%)	0 (0%)		1 (0.3%)
Celebrex	1 (0.8%)	0 (0%)		1 (0.3%)
Aleve aspirin	3 (2.3%)	0 (0%)		3 (0.9%)
Aleve Advil	1 (0.8%)	1 (0.5%)		2 (0.6%)
Motrin	1 (0.8%)	1 (0.5%)		2 (0.6%)
Celebrex aspirin	0 (0%)	1 (0.5%)		1 (0.3%)
advil	0 (0%)	1 (0.5%)		1 (0.3%)
ibuprofen Advil	0 (0%)	1 (0.5%)		1 (0.3%)
aspirin tramadol	0 (0%)	1 (0.5%)		1 (0.3%)
aspirin Aleve	2 (1.5%)	2 (1.0%)		4 (1.2%)
naproxen	0 (0%)	2 (1.0%)		2 (0.6%)
aspirin Aleve ibuprofen	0 (0%)	1 (0.5%)		1 (0.3%)
excedrin	0 (0%)	1 (0.5%)		1 (0.3%)
Prednisone	0 (0%)	1 (0.5%)		1 (0.3%)
Aleve Ibuprofen	0 (0%)	1 (0.5%)		1 (0.3%)
Ibuprofen meloxicam	0 (0%)	1 (0.5%)		1 (0.3%)
meloxicam	0 (0%)	3 (1.5%)		3 (0.9%)
aspirin ibuprofen	1 (0.8%)	0 (0%)		1 (0.3%)
Ecotrin	1 (0.8%)	0 (0%)		1 (0.3%)
Bayer	1 (0.8%)	0 (0%)		1 (0.3%)
Missing	75 (57.3%)	123 (61.8%)		198 (60.0%)
anti_inflammatory_bool				
Yes	56 (42.7%)	76 (38.2%)	0.738	132 (40.0%)
No	71 (54.2%)	114 (57.3%)		185 (56.1%)
Don't Know	1 (0.8%)	1 (0.5%)		2 (0.6%)
Missing	3 (2.3%)	8 (4.0%)		11 (3.3%)
antibiotics				
minocycline	0 (0%)	1 (0.5%)	0.285	1 (0.3%)
sivextro	0 (0%)	2 (1.0%)		2 (0.6%)
bactrim	1 (0.8%)	0 (0%)		1 (0.3%)
augmentin	0 (0%)	1 (0.5%)		1 (0.3%)
ciprofloxacin minocycline	0 (0%)	1 (0.5%)		1 (0.3%)
ofloxacin	0 (0%)	1 (0.5%)		1 (0.3%)
erythromycin	0 (0%)	1 (0.5%)		1 (0.3%)
amantadine	0 (0%)	1 (0.5%)		1 (0.3%)
doxycycline hyclate	0 (0%)	1 (0.5%)		1 (0.3%)
amoxicillin	1 (0.8%)	0 (0%)		1 (0.3%)
albuterol levofloxacin	1 (0.8%)	0 (0%)		1 (0.3%)
Missing	128 (97.7%)	190 (95.5%)		318 (96.4%)
antibiotics_bool				
No	126 (96.2%)	184 (92.5%)	0.264	310 (93.9%)
Yes	3 (2.3%)	9 (4.5%)		12 (3.6%)
Don't Know	1 (0.8%)	0 (0%)		1 (0.3%)

	Control (N=131)	PD (N=199)	P-value	Total (N=330)
Missing	1 (0.8%)	6 (3.0%)		7 (2.1%)
anticholinergic				
N	0 (0%)	180 (90.5%)	NA	180 (54.5%)
Y	0 (0%)	7 (3.5%)		7 (2.1%)
Missing	131 (100%)	12 (6.0%)		143 (43.3%)
anxiety				
No	113 (86.3%)	139 (69.8%)	0.00186	252 (76.4%)
Yes	16 (12.2%)	53 (26.6%)		69 (20.9%)
Missing	2 (1.5%)	7 (3.5%)		9 (2.7%)
anxiety_age				
Mean (SD)	45.1 (21.7)	51.1 (17.6)	0.323	49.6 (18.7)
Median [Min, Max]	50.0 [11.0, 84.0]	56.0 [5.00, 84.0]		53.0 [5.00, 84.0]
Missing	116 (88.5%)	152 (76.4%)		268 (81.2%)
anxiety_still				
Yes	8 (6.1%)	34 (17.1%)	0.15	42 (12.7%)
No	7 (5.3%)	10 (5.0%)		17 (5.2%)
Missing	116 (88.5%)	155 (77.9%)		271 (82.1%)
apomorphine				
N	0 (0%)	184 (92.5%)	NA	184 (55.8%)
Y	0 (0%)	3 (1.5%)		3 (0.9%)
Missing	131 (100%)	12 (6.0%)		143 (43.3%)
bipolar				
No	127 (96.9%)	190 (95.5%)	0.731	317 (96.1%)
Yes	2 (1.5%)	1 (0.5%)		3 (0.9%)
Missing	2 (1.5%)	8 (4.0%)		10 (3.0%)
bmi				
Mean (SD)	28.3 (5.69)	26.4 (5.32)	0.00877	27.2 (5.54)
Median [Min, Max]	26.5 [17.5, 45.0]	25.8 [14.6, 45.6]		26.0 [14.6, 45.6]
Missing	4 (3.1%)	7 (3.5%)		11 (3.3%)
breast_cancer				
No	122 (93.1%)	180 (90.5%)	1	302 (91.5%)
Yes	6 (4.6%)	8 (4.0%)		14 (4.2%)
Missing	3 (2.3%)	11 (5.5%)		14 (4.2%)
bulimia				
No	125 (95.4%)	189 (95.0%)	1	314 (95.2%)
Yes	1 (0.8%)	2 (1.0%)		3 (0.9%)
Missing	5 (3.8%)	8 (4.0%)		13 (3.9%)
bulimia_still				
No	1 (0.8%)	1 (0.5%)	NA	2 (0.6%)
Yes	0 (0%)	0 (0%)		0 (0%)
Missing	130 (99.2%)	198 (99.5%)		328 (99.4%)
carbidopa_levodopa				
Y	0 (0%)	170 (85.4%)	NA	170 (51.5%)
N	0 (0%)	17 (8.5%)		17 (5.2%)

	Control (N=131)	PD (N=199)	P-value	Total (N=330)
Missing	131 (100%)	12 (6.0%)		143 (43.3%)
cesarean				
No	118 (90.1%)	176 (88.4%)	0.00994	294 (89.1%)
Yes	0 (0%)	11 (5.5%)		11 (3.3%)
Don't Know	11 (8.4%)	9 (4.5%)		20 (6.1%)
Missing	2 (1.5%)	3 (1.5%)		5 (1.5%)
chemotherapy				
No	128 (97.7%)	194 (97.5%)	0.674	322 (97.6%)
Don't Know	0 (0%)	2 (1.0%)		2 (0.6%)
Missing	3 (2.3%)	3 (1.5%)		6 (1.8%)
co_q_10				
N	0 (0%)	177 (88.9%)	NA	177 (53.6%)
Y	0 (0%)	10 (5.0%)		10 (3.0%)
Missing	131 (100%)	12 (6.0%)		143 (43.3%)
coffee_amount				
Mean (SD)	1.33 (0.839)	1.15 (0.841)	0.0399	1.22 (0.844)
Median [Min, Max]	2.00 [0, 2.00]	1.00 [0, 2.00]		1.00 [0, 2.00]
Missing	1 (0.8%)	6 (3.0%)		7 (2.1%)
coffee_how_much				
1-2 cups a day	41 (31.3%)	68 (34.2%)	<0.001	109 (33.0%)
Less than 2 cups a week	10 (7.6%)	35 (17.6%)		45 (13.6%)
None	31 (23.7%)	56 (28.1%)		87 (26.4%)
2-6 cups a week	15 (11.5%)	18 (9.0%)		33 (10.0%)
3-5 cups a day	28 (21.4%)	14 (7.0%)		42 (12.7%)
6 or more cups a day	5 (3.8%)	2 (1.0%)		7 (2.1%)
Missing	1 (0.8%)	6 (3.0%)		7 (2.1%)
coffee_started				
Mean (SD)	21.1 (7.57)	19.9 (8.01)	0.0987	20.4 (7.82)
Median [Min, Max]	19.0 [10.0, 50.0]	18.0 [5.00, 50.0]		18.0 [5.00, 50.0]
Missing	66 (50.4%)	112 (56.3%)		178 (53.9%)
colitis				
No	127 (96.9%)	182 (91.5%)	0.163	309 (93.6%)
Yes	2 (1.5%)	10 (5.0%)		12 (3.6%)
Missing	2 (1.5%)	7 (3.5%)		9 (2.7%)
colitis_still				
No	2 (1.5%)	5 (2.5%)	NA	7 (2.1%)
Yes	0 (0%)	0 (0%)		0 (0%)
Missing	129 (98.5%)	194 (97.5%)		323 (97.9%)
comt_inhibitor				
Y	0 (0%)	37 (18.6%)	NA	37 (11.2%)
N	0 (0%)	150 (75.4%)		150 (45.5%)
Missing	131 (100%)	12 (6.0%)		143 (43.3%)
crohns_disease				
No	129 (98.5%)	190 (95.5%)	0.91	319 (96.7%)

	Control (N=131)	PD (N=199)	P-value	Total (N=330)
Yes	1 (0.8%)	3 (1.5%)		4 (1.2%)
Missing	1 (0.8%)	6 (3.0%)		7 (2.1%)
crohns_disease_still				
Yes	1 (0.8%)	2 (1.0%)	1	3 (0.9%)
No	0 (0%)	1 (0.5%)		1 (0.3%)
Missing	130 (99.2%)	196 (98.5%)		326 (98.8%)
depression				
No	99 (75.6%)	127 (63.8%)	0.0774	226 (68.5%)
Yes	29 (22.1%)	61 (30.7%)		90 (27.3%)
Missing	3 (2.3%)	11 (5.5%)		14 (4.2%)
depression_age				
Mean (SD)	47.7 (17.9)	50.4 (16.3)	0.399	49.5 (16.8)
Median [Min, Max]	51.0 [14.0, 78.0]	55.0 [12.0, 75.0]		53.0 [12.0, 78.0]
Missing	104 (79.4%)	147 (73.9%)		251 (76.1%)
depression_still				
Yes	14 (10.7%)	26 (13.1%)	1	40 (12.1%)
No	12 (9.2%)	22 (11.1%)		34 (10.3%)
Missing	105 (80.2%)	151 (75.9%)		256 (77.6%)
do_you_smoke				
No	125 (95.4%)	182 (91.5%)	0.316	307 (93.0%)
Yes	5 (3.8%)	14 (7.0%)		19 (5.8%)
Missing	1 (0.8%)	3 (1.5%)		4 (1.2%)
dopamine_agonist				
Y	0 (0%)	101 (50.8%)	NA	101 (30.6%)
N	0 (0%)	86 (43.2%)		86 (26.1%)
Missing	131 (100%)	12 (6.0%)		143 (43.3%)
drug_alcohol_depend				
No	123 (93.9%)	183 (92.0%)	0.584	306 (92.7%)
Yes	3 (2.3%)	8 (4.0%)		11 (3.3%)
Missing	5 (3.8%)	8 (4.0%)		13 (3.9%)
drug_alcohol_depend_age				
Mean (SD)	44.3 (14.4)	28.0 (12.6)	0.167	33.4 (14.7)
Median [Min, Max]	50.0 [28.0, 55.0]	24.5 [17.0, 52.0]		28.0 [17.0, 55.0]
Missing	128 (97.7%)	193 (97.0%)		321 (97.3%)
drug_alcohol_depend_still				
No	2 (1.5%)	4 (2.0%)	1	6 (1.8%)
Yes	1 (0.8%)	4 (2.0%)		5 (1.5%)
Missing	128 (97.7%)	191 (96.0%)		319 (96.7%)
elevation				
Mean (SD)	72.8 (82.4)	89.6 (101)	0.863	82.9 (94.4)
Median [Min, Max]	46.0 [45.0, 320]	46.0 [45.0, 320]		46.0 [45.0, 320]
entacapone				
Y	0 (0%)	35 (17.6%)	NA	35 (10.6%)
N	0 (0%)	152 (76.4%)		152 (46.1%)

	Control (N=131)	PD (N=199)	P-value	Total (N=330)
Missing	131 (100%)	12 (6.0%)		143 (43.3%)
fruits_or_vegetables				
Few times a week	13 (9.9%)	37 (18.6%)	0.0637	50 (15.2%)
At least once a day	115 (87.8%)	152 (76.4%)		267 (80.9%)
Few times a month	2 (1.5%)	5 (2.5%)		7 (2.1%)
Missing	1 (0.8%)	5 (2.5%)		6 (1.8%)
gained_10lbs				
No	118 (90.1%)	171 (85.9%)	0.223	289 (87.6%)
Yes	10 (7.6%)	25 (12.6%)		35 (10.6%)
Missing	3 (2.3%)	3 (1.5%)		6 (1.8%)
grains				
Few times a week	33 (25.2%)	51 (25.6%)	0.673	84 (25.5%)
At least once a day	86 (65.6%)	133 (66.8%)		219 (66.4%)
Less than once a month or never	2 (1.5%)	1 (0.5%)		3 (0.9%)
Few times a month	7 (5.3%)	7 (3.5%)		14 (4.2%)
Missing	3 (2.3%)	7 (3.5%)		10 (3.0%)
height_in				
Mean (SD)	66.4 (3.65)	68.0 (4.04)	<0.001	67.4 (3.96)
Median [Min, Max]	66.0 [57.0, 75.0]	68.8 [59.0, 77.0]		67.0 [57.0, 77.0]
Missing	2 (1.5%)	3 (1.5%)		5 (1.5%)
hepatitis				
No	126 (96.2%)	177 (88.9%)	0.164	303 (91.8%)
Yes	3 (2.3%)	12 (6.0%)		15 (4.5%)
Missing	2 (1.5%)	10 (5.0%)		12 (3.6%)
hepatitis_age				
Mean (SD)	51.0 (19.8)	22.2 (14.9)	0.121	27.0 (18.5)
Median [Min, Max]	51.0 [37.0, 65.0]	17.5 [3.00, 52.0]		20.5 [3.00, 65.0]
Missing	129 (98.5%)	189 (95.0%)		318 (96.4%)
hepatitis_still				
No	3 (2.3%)	10 (5.0%)	1	13 (3.9%)
Yes	0 (0%)	1 (0.5%)		1 (0.3%)
Missing	128 (97.7%)	188 (94.5%)		316 (95.8%)
impulse				
No	126 (96.2%)	176 (88.4%)	0.00454	302 (91.5%)
Yes	0 (0%)	14 (7.0%)		14 (4.2%)
Missing	5 (3.8%)	9 (4.5%)		14 (4.2%)
impulse_still				
Yes	0 (0%)	8 (4.0%)	NA	8 (2.4%)
No	0 (0%)	4 (2.0%)		4 (1.2%)
Missing	131 (100%)	187 (94.0%)		318 (96.4%)
inflam_bowel_disease				
No	127 (96.9%)	188 (94.5%)	0.812	315 (95.5%)
Yes	2 (1.5%)	5 (2.5%)		7 (2.1%)
Missing	2 (1.5%)	6 (3.0%)		8 (2.4%)

	Control (N=131)	PD (N=199)	P-value	Total (N=330)
inflam_bowel_disease_still				
No	1 (0.8%)	1 (0.5%)	1	2 (0.6%)
Yes	1 (0.8%)	3 (1.5%)		4 (1.2%)
Missing	129 (98.5%)	195 (98.0%)		324 (98.2%)
insomnia				
No	105 (80.2%)	112 (56.3%)	<0.001	217 (65.8%)
Yes	21 (16.0%)	77 (38.7%)		98 (29.7%)
Missing	5 (3.8%)	10 (5.0%)		15 (4.5%)
insomnia_age				
Mean (SD)	47.1 (20.6)	50.6 (17.1)	0.664	50.0 (17.8)
Median [Min, Max]	52.0 [10.0, 77.0]	55.0 [2.00, 85.0]		55.0 [2.00, 85.0]
Missing	114 (87.0%)	130 (65.3%)		244 (73.9%)
insomnia_still				
No	4 (3.1%)	12 (6.0%)	0.755	16 (4.8%)
Yes	13 (9.9%)	60 (30.2%)		73 (22.1%)
Missing	114 (87.0%)	127 (63.8%)		241 (73.0%)
intest_disease				
No	111 (84.7%)	155 (77.9%)	0.306	266 (80.6%)
Yes	19 (14.5%)	38 (19.1%)		57 (17.3%)
Missing	1 (0.8%)	6 (3.0%)		7 (2.1%)
irrit_bowel_syndrome				
No	121 (92.4%)	177 (88.9%)	0.868	298 (90.3%)
Yes	8 (6.1%)	14 (7.0%)		22 (6.7%)
Missing	2 (1.5%)	8 (4.0%)		10 (3.0%)
irrit_bowel_syndrome_still				
Yes	3 (2.3%)	8 (4.0%)	0.685	11 (3.3%)
No	3 (2.3%)	3 (1.5%)		6 (1.8%)
Missing	125 (95.4%)	188 (94.5%)		313 (94.8%)
latitude				
Mean (SD)	-30.0 (81.3)	-35.1 (81.1)	0.277	-33.1 (81.1)
Median [Min, Max]	33.7 [-122, 42.6]	33.7 [-122, 42.6]		33.7 [-122, 42.6]
location				
Albany	61 (46.6%)	75 (37.7%)	0.147	136 (41.2%)
Atlanta	13 (9.9%)	32 (16.1%)		45 (13.6%)
Seattle	57 (43.5%)	92 (46.2%)		149 (45.2%)
longitude				
Mean (SD)	-22.0 (61.4)	-19.3 (62.3)	0.863	-20.4 (61.9)
Median [Min, Max]	-73.7 [-84.3, 47.6]	-73.7 [-84.3, 47.6]		-73.7 [-84.3, 47.6]
loss_10lbs				
No	110 (84.0%)	150 (75.4%)	0.0198	260 (78.8%)
Yes	15 (11.5%)	45 (22.6%)		60 (18.2%)
Missing	6 (4.6%)	4 (2.0%)		10 (3.0%)
lung_cancer				
No	128 (97.7%)	188 (94.5%)	NA	316 (95.8%)

	Control (N=131)	PD (N=199)	P-value	Total (N=330)
Yes	0 (0%)	0 (0%)		0 (0%)
Missing	3 (2.3%)	11 (5.5%)		14 (4.2%)
lyme_disease				
No	126 (96.2%)	186 (93.5%)	0.956	312 (94.5%)
Yes	3 (2.3%)	3 (1.5%)		6 (1.8%)
Missing	2 (1.5%)	10 (5.0%)		12 (3.6%)
lyme_disease_still				
No	3 (2.3%)	0 (0%)	0.505	3 (0.9%)
Yes	0 (0%)	1 (0.5%)		1 (0.3%)
Missing	128 (97.7%)	198 (99.5%)		326 (98.8%)
malaria				
No	129 (98.5%)	184 (92.5%)	0.248	313 (94.8%)
Yes	0 (0%)	4 (2.0%)		4 (1.2%)
Missing	2 (1.5%)	11 (5.5%)		13 (3.9%)
malaria_age				
21	0 (0%)	1 (0.5%)	NA	1 (0.3%)
18 39	0 (0%)	1 (0.5%)		1 (0.3%)
23	0 (0%)	1 (0.5%)		1 (0.3%)
26	0 (0%)	1 (0.5%)		1 (0.3%)
Missing	131 (100%)	195 (98.0%)		326 (98.8%)
malaria_still				
No	0 (0%)	4 (2.0%)	NA	4 (1.2%)
Yes	0 (0%)	0 (0%)		0 (0%)
Missing	131 (100%)	195 (98.0%)		326 (98.8%)
mao_b_inhibitor				
N	0 (0%)	116 (58.3%)	NA	116 (35.2%)
Y	0 (0%)	71 (35.7%)		71 (21.5%)
Missing	131 (100%)	12 (6.0%)		143 (43.3%)
meats				
Few times a week	46 (35.1%)	73 (36.7%)	0.507	119 (36.1%)
At least once a day	81 (61.8%)	110 (55.3%)		191 (57.9%)
Few times a month	3 (2.3%)	9 (4.5%)		12 (3.6%)
Less than once a month or never	0 (0%)	1 (0.5%)		1 (0.3%)
Missing	1 (0.8%)	6 (3.0%)		7 (2.1%)
medication_digestive_problems				
Mean (SD)	0.153 (0.361)	0.291 (0.456)	0.00375	0.236 (0.425)
Median [Min, Max]	0 [0, 1.00]	0 [0, 1.00]		0 [0, 1.00]
medication_digestive_problems_bool				
No	104 (79.4%)	132 (66.3%)	0.00643	236 (71.5%)
Yes	21 (16.0%)	60 (30.2%)		81 (24.5%)
Don't Know	4 (3.1%)	2 (1.0%)		6 (1.8%)
Missing	2 (1.5%)	5 (2.5%)		7 (2.1%)
meningitis				
No	128 (97.7%)	183 (92.0%)	0.43	311 (94.2%)

	Control (N=131)	PD (N=199)	P-value	Total (N=330)
Yes	1 (0.8%)	5 (2.5%)		6 (1.8%)
Missing	2 (1.5%)	11 (5.5%)		13 (3.9%)
meningitis_still				
No	0 (0%)	4 (2.0%)	NA	4 (1.2%)
Yes	0 (0%)	0 (0%)		0 (0%)
Missing	131 (100%)	195 (98.0%)		326 (98.8%)
multiple_sclerosis				
No	129 (98.5%)	178 (89.4%)	NA	307 (93.0%)
Yes	0 (0%)	0 (0%)		0 (0%)
Missing	2 (1.5%)	21 (10.6%)		23 (7.0%)
nuts				
Few times a week	56 (42.7%)	78 (39.2%)	0.296	134 (40.6%)
Few times a month	25 (19.1%)	50 (25.1%)		75 (22.7%)
At least once a day	37 (28.2%)	43 (21.6%)		80 (24.2%)
Less than once a month or never	11 (8.4%)	23 (11.6%)		34 (10.3%)
Missing	2 (1.5%)	5 (2.5%)		7 (2.1%)
obsessive				
No	126 (96.2%)	177 (88.9%)	0.00467	303 (91.8%)
Yes	0 (0%)	14 (7.0%)		14 (4.2%)
Missing	5 (3.8%)	8 (4.0%)		13 (3.9%)
obsessive_still				
Yes	0 (0%)	11 (5.5%)	NA	11 (3.3%)
No	0 (0%)	1 (0.5%)		1 (0.3%)
Missing	131 (100%)	187 (94.0%)		318 (96.4%)
other_cancer				
No	119 (90.8%)	183 (92.0%)	0.192	302 (91.5%)
Yes	8 (6.1%)	5 (2.5%)		13 (3.9%)
Missing	4 (3.1%)	11 (5.5%)		15 (4.5%)
other_cancer_kind				
bladder	0 (0%)	2 (1.0%)	0.224	2 (0.6%)
basal cell carcinoma	0 (0%)	1 (0.5%)		1 (0.3%)
kidney	2 (1.5%)	0 (0%)		2 (0.6%)
uterine	1 (0.8%)	0 (0%)		1 (0.3%)
multiple myeloma	1 (0.8%)	0 (0%)		1 (0.3%)
endometrial	1 (0.8%)	0 (0%)		1 (0.3%)
lymphoma	1 (0.8%)	0 (0%)		1 (0.3%)
rectal	0 (0%)	1 (0.5%)		1 (0.3%)
Testicular	1 (0.8%)	0 (0%)		1 (0.3%)
melanoma	1 (0.8%)	0 (0%)		1 (0.3%)
Throat Cancer	1 (0.8%)	0 (0%)		1 (0.3%)
Missing	122 (93.1%)	195 (98.0%)		317 (96.1%)
other_neuro_problems				
No	122 (93.1%)	172 (86.4%)	0.252	294 (89.1%)
Yes	8 (6.1%)	5 (2.5%)		13 (3.9%)

	Control (N=131)	PD (N=199)	P-value	Total (N=330)
Missing	1 (0.8%)	22 (11.1%)		23 (7.0%)
ovarian_cancer				
No	127 (96.9%)	186 (93.5%)	NA	313 (94.8%)
Yes	0 (0%)	0 (0%)		0 (0%)
Missing	4 (3.1%)	13 (6.5%)		17 (5.2%)
p3m_antibiotics				
Z-PACK	2 (1.5%)	0 (0%)	0.256	2 (0.6%)
Ciprofloxacin	1 (0.8%)	3 (1.5%)		4 (1.2%)
doxycycline	0 (0%)	2 (1.0%)		2 (0.6%)
nystatin	0 (0%)	1 (0.5%)		1 (0.3%)
amoxicillin	3 (2.3%)	0 (0%)		3 (0.9%)
Leviquin	1 (0.8%)	0 (0%)		1 (0.3%)
azithromycin	4 (3.1%)	2 (1.0%)		6 (1.8%)
doxycycline amoxicillin	0 (0%)	1 (0.5%)		1 (0.3%)
keflex	0 (0%)	1 (0.5%)		1 (0.3%)
Biaxin amoxicillin	0 (0%)	1 (0.5%)		1 (0.3%)
besivance	0 (0%)	1 (0.5%)		1 (0.3%)
amox tr-k clv	0 (0%)	1 (0.5%)		1 (0.3%)
Augmentin	1 (0.8%)	1 (0.5%)		2 (0.6%)
Ampicillin	0 (0%)	1 (0.5%)		1 (0.3%)
Rocephin	0 (0%)	1 (0.5%)		1 (0.3%)
cephalexin	0 (0%)	1 (0.5%)		1 (0.3%)
standard	0 (0%)	1 (0.5%)		1 (0.3%)
SMZ/TMP	1 (0.8%)	0 (0%)		1 (0.3%)
Flagyl Ciprofloxacin	1 (0.8%)	0 (0%)		1 (0.3%)
fluconazole	1 (0.8%)	0 (0%)		1 (0.3%)
Missing	116 (88.5%)	181 (91.0%)		297 (90.0%)
p3m_antibiotics_bool				
Yes	21 (16.0%)	24 (12.1%)	0.331	45 (13.6%)
No	108 (82.4%)	165 (82.9%)		273 (82.7%)
Don't Know	1 (0.8%)	5 (2.5%)		6 (1.8%)
Missing	1 (0.8%)	5 (2.5%)		6 (1.8%)
p3m_constipation				
Don't Know	1 (0.8%)	2 (1.0%)	<0.001	3 (0.9%)
No	123 (93.9%)	108 (54.3%)		231 (70.0%)
Yes	6 (4.6%)	83 (41.7%)		89 (27.0%)
Missing	1 (0.8%)	6 (3.0%)		7 (2.1%)
p3m_constipation_often				
More Often	4 (3.1%)	56 (28.1%)	1	60 (18.2%)
Once or Twice	2 (1.5%)	25 (12.6%)		27 (8.2%)
Missing	125 (95.4%)	118 (59.3%)		243 (73.6%)
p3m_diarrhea				
Yes	28 (21.4%)	31 (15.6%)	0.408	59 (17.9%)
No	97 (74.0%)	158 (79.4%)		255 (77.3%)

	Control (N=131)	PD (N=199)	P-value	Total (N=330)
Don't Know	3 (2.3%)	5 (2.5%)		8 (2.4%)
Missing	3 (2.3%)	5 (2.5%)		8 (2.4%)
p3m_diarrhea_often				
More Often	7 (5.3%)	13 (6.5%)	0.273	20 (6.1%)
Once or Twice	21 (16.0%)	18 (9.0%)		39 (11.8%)
Missing	103 (78.6%)	168 (84.4%)		271 (82.1%)
p3m_other				
No	96 (73.3%)	118 (59.3%)	0.0703	214 (64.8%)
Yes	18 (13.7%)	36 (18.1%)		54 (16.4%)
Don't Know	12 (9.2%)	30 (15.1%)		42 (12.7%)
Missing	5 (3.8%)	15 (7.5%)		20 (6.1%)
parkinson_disease				
No	131 (100%)	0 (0%)	<0.001	131 (39.7%)
Yes	0 (0%)	199 (100%)		199 (60.3%)
phobia				
No	126 (96.2%)	187 (94.0%)	1	313 (94.8%)
Yes	2 (1.5%)	3 (1.5%)		5 (1.5%)
Missing	3 (2.3%)	9 (4.5%)		12 (3.6%)
phobia_still				
No	1 (0.8%)	1 (0.5%)	1	2 (0.6%)
Yes	1 (0.8%)	1 (0.5%)		2 (0.6%)
Missing	129 (98.5%)	197 (99.0%)		326 (98.8%)
pramipexole				
N	0 (0%)	133 (66.8%)	NA	133 (40.3%)
Y	0 (0%)	54 (27.1%)		54 (16.4%)
Missing	131 (100%)	12 (6.0%)		143 (43.3%)
probiotics				
Yes	33 (25.2%)	43 (21.6%)	0.121	76 (23.0%)
No	94 (71.8%)	141 (70.9%)		235 (71.2%)
Don't Know	2 (1.5%)	12 (6.0%)		14 (4.2%)
Missing	2 (1.5%)	3 (1.5%)		5 (1.5%)
prostate_cancer				
No	123 (93.9%)	174 (87.4%)	0.0811	297 (90.0%)
Yes	2 (1.5%)	12 (6.0%)		14 (4.2%)
Missing	6 (4.6%)	13 (6.5%)		19 (5.8%)
prostate_cancer_age				
Mean (SD)	69.0 (5.66)	62.3 (14.1)	0.647	63.3 (13.3)
Median [Min, Max]	69.0 [65.0, 73.0]	67.0 [23.0, 77.0]		67.0 [23.0, 77.0]
Missing	129 (98.5%)	187 (94.0%)		316 (95.8%)
race				
White	131 (100%)	195 (98.0%)	0.264	326 (98.8%)
More Than One Race	0 (0%)	3 (1.5%)		3 (0.9%)
Black or African American	0 (0%)	1 (0.5%)		1 (0.3%)
rasagiline				

	Control (N=131)	PD (N=199)	P-value	Total (N=330)
N	0 (0%)	134 (67.3%)	NA	134 (40.6%)
Y	0 (0%)	53 (26.6%)		53 (16.1%)
Missing	131 (100%)	12 (6.0%)		143 (43.3%)
ropinirole				
Y	0 (0%)	44 (22.1%)	NA	44 (13.3%)
N	0 (0%)	143 (71.9%)		143 (43.3%)
Missing	131 (100%)	12 (6.0%)		143 (43.3%)
rotigotine				
N	0 (0%)	184 (92.5%)	NA	184 (55.8%)
Y	0 (0%)	3 (1.5%)		3 (0.9%)
Missing	131 (100%)	12 (6.0%)		143 (43.3%)
selegiline				
N	0 (0%)	169 (84.9%)	NA	169 (51.2%)
Y	0 (0%)	18 (9.0%)		18 (5.5%)
Missing	131 (100%)	12 (6.0%)		143 (43.3%)
sex				
female	79 (60.3%)	66 (33.2%)	<0.001	145 (43.9%)
male	52 (39.7%)	133 (66.8%)		185 (56.1%)
shingles				
No	105 (80.2%)	157 (78.9%)	0.814	262 (79.4%)
Yes	24 (18.3%)	32 (16.1%)		56 (17.0%)
Missing	2 (1.5%)	10 (5.0%)		12 (3.6%)
shingles_still				
No	20 (15.3%)	28 (14.1%)	0.367	48 (14.5%)
Yes	2 (1.5%)	0 (0%)		2 (0.6%)
Missing	109 (83.2%)	171 (85.9%)		280 (84.8%)
skin_cancer				
Yes	23 (17.6%)	41 (20.6%)	0.512	64 (19.4%)
No	106 (80.9%)	150 (75.4%)		256 (77.6%)
Missing	2 (1.5%)	8 (4.0%)		10 (3.0%)
skin_cancer_age				
63	1 (0.8%)	0 (0%)	0.289	1 (0.3%)
60	1 (0.8%)	5 (2.5%)		6 (1.8%)
50	2 (1.5%)	6 (3.0%)		8 (2.4%)
27 45 73	1 (0.8%)	0 (0%)		1 (0.3%)
40	1 (0.8%)	0 (0%)		1 (0.3%)
72.5	1 (0.8%)	0 (0%)		1 (0.3%)
72	0 (0%)	2 (1.0%)		2 (0.6%)
55	0 (0%)	2 (1.0%)		2 (0.6%)
46	0 (0%)	1 (0.5%)		1 (0.3%)
77	1 (0.8%)	0 (0%)		1 (0.3%)
70	2 (1.5%)	0 (0%)		2 (0.6%)
67	1 (0.8%)	2 (1.0%)		3 (0.9%)
49	2 (1.5%)	0 (0%)		2 (0.6%)

	Control (N=131)	PD (N=199)	P-value	Total (N=330)
65	1 (0.8%)	2 (1.0%)	0.00345	3 (0.9%)
80	1 (0.8%)	0 (0%)		1 (0.3%)
57.5	1 (0.8%)	0 (0%)		1 (0.3%)
62	1 (0.8%)	0 (0%)		1 (0.3%)
75	2 (1.5%)	1 (0.5%)		3 (0.9%)
52	0 (0%)	1 (0.5%)		1 (0.3%)
30	0 (0%)	2 (1.0%)		2 (0.6%)
45	1 (0.8%)	3 (1.5%)		4 (1.2%)
48	1 (0.8%)	1 (0.5%)		2 (0.6%)
66	0 (0%)	1 (0.5%)		1 (0.3%)
32	0 (0%)	1 (0.5%)		1 (0.3%)
57	0 (0%)	1 (0.5%)		1 (0.3%)
71	0 (0%)	1 (0.5%)		1 (0.3%)
56	0 (0%)	1 (0.5%)		1 (0.3%)
69	0 (0%)	1 (0.5%)		1 (0.3%)
51	0 (0%)	1 (0.5%)		1 (0.3%)
69 72	0 (0%)	1 (0.5%)		1 (0.3%)
64	0 (0%)	1 (0.5%)		1 (0.3%)
58	0 (0%)	1 (0.5%)		1 (0.3%)
44	0 (0%)	1 (0.5%)		1 (0.3%)
87	1 (0.8%)	0 (0%)		1 (0.3%)
55 63	1 (0.8%)	0 (0%)		1 (0.3%)
Missing	108 (82.4%)	160 (80.4%)		268 (81.2%)
sleep_aid				
Sometimes	23 (17.6%)	33 (16.6%)	0.00345	56 (17.0%)
No	90 (68.7%)	107 (53.8%)		197 (59.7%)
Regularly	15 (11.5%)	52 (26.1%)		67 (20.3%)
Missing	3 (2.3%)	7 (3.5%)		10 (3.0%)
sleep_duration				
Mean (SD)	7.04 (1.07)	6.89 (1.46)	0.255	6.95 (1.31)
Median [Min, Max]	7.00 [4.00, 10.0]	7.00 [3.00, 10.0]		7.00 [3.00, 10.0]
Missing	5 (3.8%)	13 (6.5%)		18 (5.5%)
smoke100				
Yes	42 (32.1%)	76 (38.2%)	0.417	118 (35.8%)
No	67 (51.1%)	96 (48.2%)		163 (49.4%)
Missing	22 (16.8%)	27 (13.6%)		49 (14.8%)
spouse				
0	70 (53.4%)	141 (70.9%)	0.00189	211 (63.9%)
1	61 (46.6%)	58 (29.1%)		119 (36.1%)
ss_bloating				
No	127 (96.9%)	177 (88.9%)	0.0126	304 (92.1%)
Yes	3 (2.3%)	20 (10.1%)		23 (7.0%)
Missing	1 (0.8%)	2 (1.0%)		3 (0.9%)
ss_constipation				

	Control (N=131)	PD (N=199)	P-value	Total (N=330)
No	126 (96.2%)	167 (83.9%)	<0.001	293 (88.8%)
Yes	2 (1.5%)	29 (14.6%)		31 (9.4%)
Missing	3 (2.3%)	3 (1.5%)		6 (1.8%)
ss_diarrhea				
No	126 (96.2%)	189 (95.0%)	0.465	315 (95.5%)
Yes	2 (1.5%)	7 (3.5%)		9 (2.7%)
Missing	3 (2.3%)	3 (1.5%)		6 (1.8%)
ss_excess_gas				
No	127 (96.9%)	169 (84.9%)	<0.001	296 (89.7%)
Yes	2 (1.5%)	27 (13.6%)		29 (8.8%)
Missing	2 (1.5%)	3 (1.5%)		5 (1.5%)
ssabdominal_pain				
No	112 (85.5%)	149 (74.9%)	0.592	261 (79.1%)
Yes	8 (6.1%)	15 (7.5%)		23 (7.0%)
Missing	11 (8.4%)	35 (17.6%)		46 (13.9%)
ssdigest_prob				
No	93 (71.0%)	78 (39.2%)	<0.001	171 (51.8%)
Yes	26 (19.8%)	105 (52.8%)		131 (39.7%)
Missing	12 (9.2%)	16 (8.0%)		28 (8.5%)
still_smoking				
No	40 (30.5%)	70 (35.2%)	0.79	110 (33.3%)
Yes	2 (1.5%)	6 (3.0%)		8 (2.4%)
Missing	89 (67.9%)	123 (61.8%)		212 (64.2%)
stool_travel_time				
Mean (SD)	2.64 (1.53)	3.27 (1.90)	0.0016	3.02 (1.78)
Median [Min, Max]	2.00 [1.00, 8.00]	3.00 [1.00, 10.0]		3.00 [1.00, 10.0]
Missing	4 (3.1%)	10 (5.0%)		14 (4.2%)
tolcapone				
N	0 (0%)	185 (93.0%)	NA	185 (56.1%)
Y	0 (0%)	2 (1.0%)		2 (0.6%)
Missing	131 (100%)	12 (6.0%)		143 (43.3%)
trihexiphenidyl_anticholinergic				
N	0 (0%)	180 (90.5%)	NA	180 (54.5%)
Y	0 (0%)	7 (3.5%)		7 (2.1%)
Missing	131 (100%)	12 (6.0%)		143 (43.3%)
ulcers				
No	120 (91.6%)	175 (87.9%)	0.692	295 (89.4%)
Yes	9 (6.9%)	17 (8.5%)		26 (7.9%)
Missing	2 (1.5%)	7 (3.5%)		9 (2.7%)
ulcers_age				
50	1 (0.8%)	0 (0%)	0.297	1 (0.3%)
68	1 (0.8%)	0 (0%)		1 (0.3%)
30	0 (0%)	1 (0.5%)		1 (0.3%)
76	1 (0.8%)	0 (0%)		1 (0.3%)

	Control (N=131)	PD (N=199)	P-value	Total (N=330)
21	1 (0.8%)	0 (0%)	0.623	1 (0.3%)
16	1 (0.8%)	1 (0.5%)		2 (0.6%)
62.5	1 (0.8%)	0 (0%)		1 (0.3%)
72	0 (0%)	1 (0.5%)		1 (0.3%)
40	0 (0%)	1 (0.5%)		1 (0.3%)
19	0 (0%)	1 (0.5%)		1 (0.3%)
20	0 (0%)	1 (0.5%)		1 (0.3%)
65	0 (0%)	1 (0.5%)		1 (0.3%)
52	0 (0%)	1 (0.5%)		1 (0.3%)
57	0 (0%)	2 (1.0%)		2 (0.6%)
21 31	0 (0%)	1 (0.5%)		1 (0.3%)
35	0 (0%)	3 (1.5%)		3 (0.9%)
55	0 (0%)	1 (0.5%)		1 (0.3%)
37.5	0 (0%)	1 (0.5%)		1 (0.3%)
73	1 (0.8%)	0 (0%)		1 (0.3%)
88	1 (0.8%)	0 (0%)		1 (0.3%)
62	1 (0.8%)	0 (0%)		1 (0.3%)
Missing	122 (93.1%)	183 (92.0%)		305 (92.4%)
ulcers_still				
No	7 (5.3%)	12 (6.0%)	1	19 (5.8%)
Yes	1 (0.8%)	1 (0.5%)		2 (0.6%)
Missing	123 (93.9%)	186 (93.5%)		309 (93.6%)
weight_lbs				
Mean (SD)	178 (40.5)	174 (40.3)	0.623	176 (40.3)
Median [Min, Max]	174 [105, 300]	174 [88.0, 292]		174 [88.0, 300]
Missing	4 (3.1%)	7 (3.5%)		11 (3.3%)
what_do_you_smoke				
tobacco	2 (1.5%)	6 (3.0%)	0.849	8 (2.4%)
marijuana	2 (1.5%)	6 (3.0%)		8 (2.4%)
tobacco marijuana	0 (0%)	1 (0.5%)		1 (0.3%)
Missing	127 (96.9%)	186 (93.5%)		313 (94.8%)
yogurt				
Few times a month	28 (21.4%)	48 (24.1%)	0.554	76 (23.0%)
Less than once a month or never	43 (32.8%)	74 (37.2%)		117 (35.5%)
Few times a week	44 (33.6%)	53 (26.6%)		97 (29.4%)
At least once a day	12 (9.2%)	16 (8.0%)		28 (8.5%)
Missing	4 (3.1%)	8 (4.0%)		12 (3.6%)
yogurt_live_culture				
Don't Know	22 (16.8%)	36 (18.1%)	0.703	58 (17.6%)
Yes	49 (37.4%)	64 (32.2%)		113 (34.2%)
No	9 (6.9%)	10 (5.0%)		19 (5.8%)
Missing	51 (38.9%)	89 (44.7%)		140 (42.4%)
medication				
0	131 (100%)	8 (4.0%)	<0.001	139 (42.1%)

	Control (N=131)	PD (N=199)	P-value	Total (N=330)
1	0 (0%)	179 (89.9%)		179 (54.2%)
Missing	0 (0%)	12 (6.0%)		12 (3.6%)
GI				
0	93 (71.0%)	78 (39.2%)	<0.001	171 (51.8%)
1	26 (19.8%)	105 (52.8%)		131 (39.7%)
Missing	12 (9.2%)	16 (8.0%)		28 (8.5%)