Figure S1. Case-dropping bootstrap strength of the Nonmotor Symptoms Scale in Parkinson's disease (NMSS) and Parkinson's Disease Questionnaire 39 (PDQ-39) summary index (number of bootstraps = 1000). Correlations of the strength centrality measure between the original sample and those of the subsamples with increasingly higher percentages of dropout cases were calculated. The correlation stability coefficient (CS coefficient) represents the maximum proportion of cases that can be dropped to retain a correlation of at least 0.70 with the original strength in at least 95% of the samples. The 95% confidence interval of the correlation is indicated. The case-dropping bootstrap procedure showed that the CS coefficient of the node strength (CS (cor = 0.7) = 0.67) remained stable.
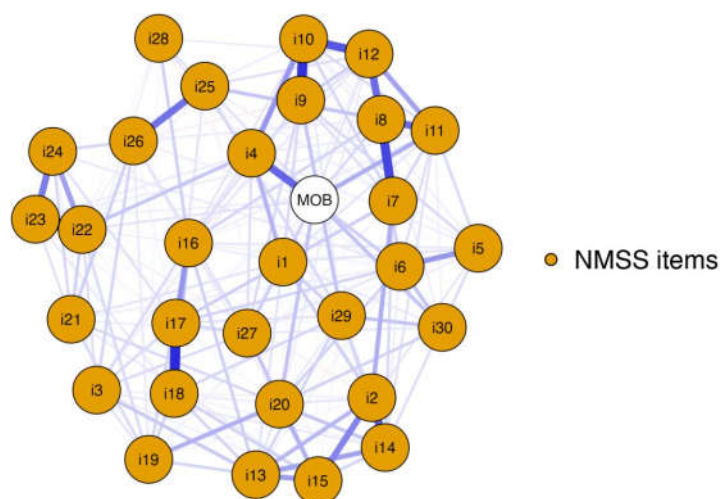

Figure S2: Network structure of the NMSS and MOB. The node *MOB* displays the PDQ-39 mobility subscale, and nodes *i1–i30* display the items included in the NMSS (orange). The thickness of the edges indicates the strengths of the correlations between these nodes. Item 1: light headedness; item 2: fainting; item 3: daytime sleepiness; item 4: fatigue; item 5: sleep initiation; item 6: restless legs; item 7: loss of interest; item 8: lack of motivation; item 9: feeling nervous; item 10: feeling sad; item 11: flat mood; item 12: anhedonia; item 13: hallucinations; item 14: delusions; item 15: diplopia; item 16: concentration; item 17: forgetfulness; item 18: forget to do things; item 19: sialorrhea; item 20: dysphagia; item 21: constipation; item 22: urgency; item 23: frequency; item 24: nocturia; item 25: interest; item 26: problems having sex; item 27: pain; item 28: taste/smell; item 29: weight change;

and item 30: hyperhidrosis. NMSS: Nonmotor Symptoms Scale in Parkinson´s disease. PDQ-39: Parkinson´s Disease Questionnaire 39. MOB: mobility subscale.
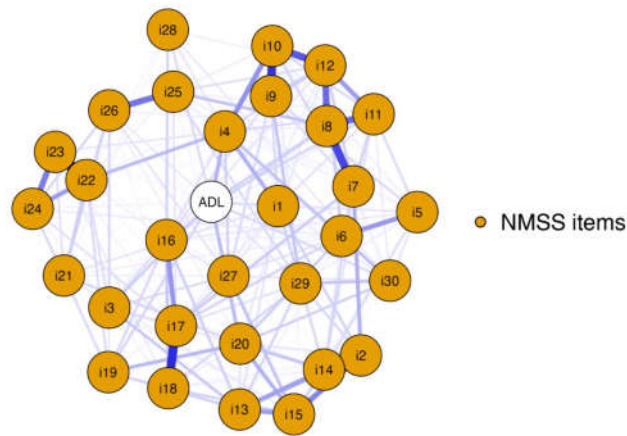

Figure S3: Network structure of the NMSS and ADL. The node *ADL* displays the PDQ-39 activities of daily living subscale, and nodes *i1–i30* display the items included in the NMSS (orange). The thickness of the edges indicates the strengths of the correlations between these nodes. Item 1: light headedness; item 2: fainting; item 3: daytime sleepiness; item 4: fatigue; item 5: sleep initiation; item 6: restless legs; item 7: loss of interest; item 8: lack of motivation; item 9: feeling nervous; item 10: feeling sad; item 11: flat mood; item 12: anhedonia; item 13: hallucinations; item 14: delusions; item 15: diplopia; item 16: concentration; item 17: forgetfulness; item 18: forget to do things; item 19: sialorrhea; item 20: dysphagia; item 21: constipation; item 22: urgency; item 23: frequency; item 24: nocturia; item 25: interest; item 26: problems having sex; item 27: pain; item 28: taste/smell; item 29: weight change; and item 30: hyperhidrosis. NMSS: Nonmotor Symptoms Scale in Parkinson´s disease. PDQ-39: Parkinson´s Disease Questionnaire 39. ADL: activities of daily living subscale.
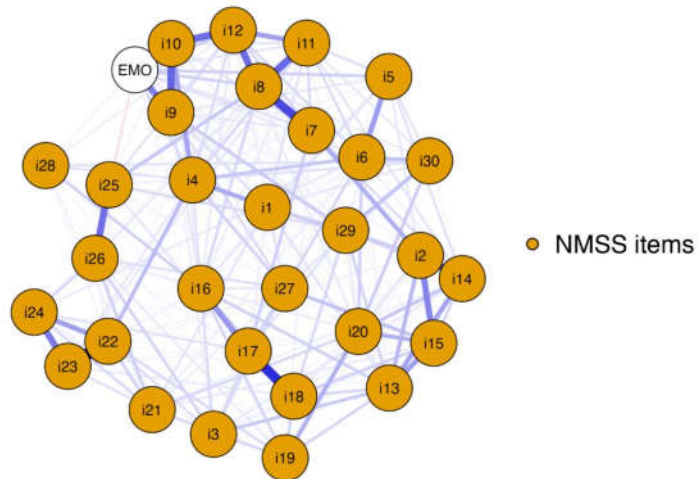

Figure S4: Network structure of the NMSS and EMO. The node *EMO* displays the PDQ-39 emotional well-being subscale, and nodes *i1–i30* display the items included in the NMSS (orange). The thickness of the edges indicates the strengths of the correlations between these nodes. Item 1: light headedness; item 2: fainting; item 3: daytime sleepiness; item 4: fatigue; item 5: sleep initiation; item 6: restless legs; item 7: loss of interest; item 8: lack of motivation; item 9: feeling nervous; item 10: feeling sad; item 11: flat mood; item 12: anhedonia; item 13: hallucinations; item 14: delusions; item 15: diplopia; item 16: concentration; item 17: forgetfulness; item 18: forget to do things; item 19: sialorrhea; item 20: dysphagia; item 21: constipation; item 22: urgency; item 23: frequency; item 24: nocturia; item 25: interest; item 26: problems having sex; item 27: pain; item 28: taste/smell; item 29:

weight change; and item 30: hyperhidrosis. NMSS: Nonmotor Symptoms Scale in Parkinson´s disease. PDQ-39: Parkinson´s Disease Questionnaire 39. EMO: emotional well-being subscale.
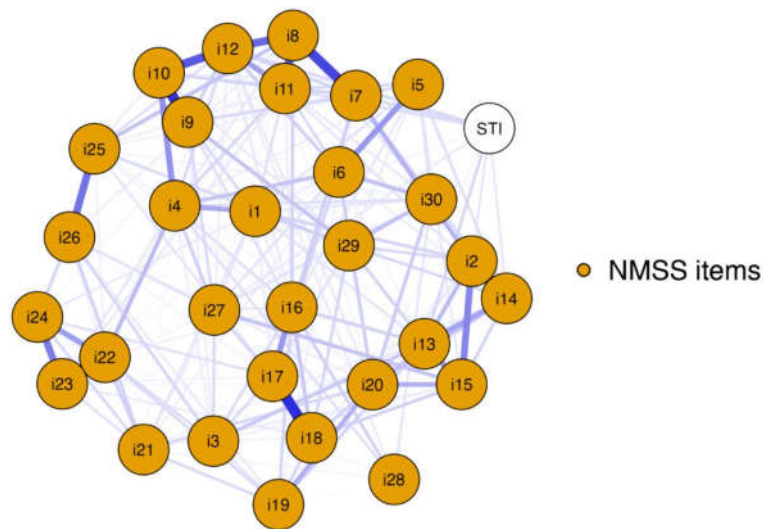

Figure S5: Network structure of the NMSS and STI. The node *STI* displays the PDQ-39 stigma subscale, and nodes *i1–i30* display the items included in the NMSS (orange). The thickness of the edges indicates the strengths of the correlations between these nodes. Item 1: light headedness; item 2: fainting; item 3: daytime sleepiness; item 4: fatigue; item 5: sleep initiation; item 6: restless legs; item 7: loss of interest; item 8: lack of motivation; item 9: feeling nervous; item 10: feeling sad; item 11: flat mood; item 12: anhedonia; item 13: hallucinations; item 14: delusions; item 15: diplopia; item 16: concentration; item 17: forgetfulness; item 18: forget to do things; item 19: sialorrhea; item 20: dysphagia; item 21: constipation; item 22: urgency; item 23: frequency; item 24: nocturia; item 25: interest; item 26: problems having sex; item 27: pain; item 28: taste/smell; item 29: weight change; and item 30: hyperhidrosis. NMSS: Nonmotor Symptoms Scale in Parkinson´s disease. PDQ-39: Parkinson´s Disease Questionnaire 39. STI: stigma subscale.

Figure S6: Network structure of the NMSS and SOC. The node *SOC* displays the PDQ-39 social support subscale, and nodes *i1–i30* display the items included in the NMSS (orange). The thickness of the edges indicates the strengths of the correlations between these nodes. Item 1: light headedness; item 2: fainting; item 3: daytime sleepiness; item 4: fatigue; item 5: sleep initiation; item 6: restless legs; item 7: loss of interest; item 8: lack of motivation; item 9: feeling nervous; item 10: feeling sad; item 11: flat mood; item 12: anhedonia; item 13: hallucinations; item 14: delusions; item

15: diplopia; item 16: concentration; item 17: forgetfulness; item 18: forget to do things; item 19: sialorrhea; item 20: dysphagia; item 21: constipation; item 22: urgency; item 23: frequency; item 24: nocturia; item 25: interest; item 26: problems having sex; item 27: pain; item 28: taste/smell; item 29: weight change; and item 30: hyperhidrosis. NMSS: Nonmotor Symptoms Scale in Parkinson´s disease. PDQ-39: Parkinson´s Disease Questionnaire 39. SOC: social support subscale.
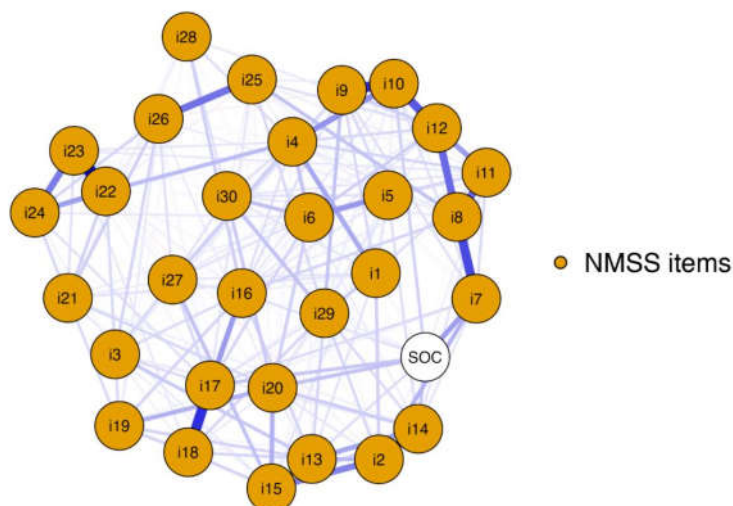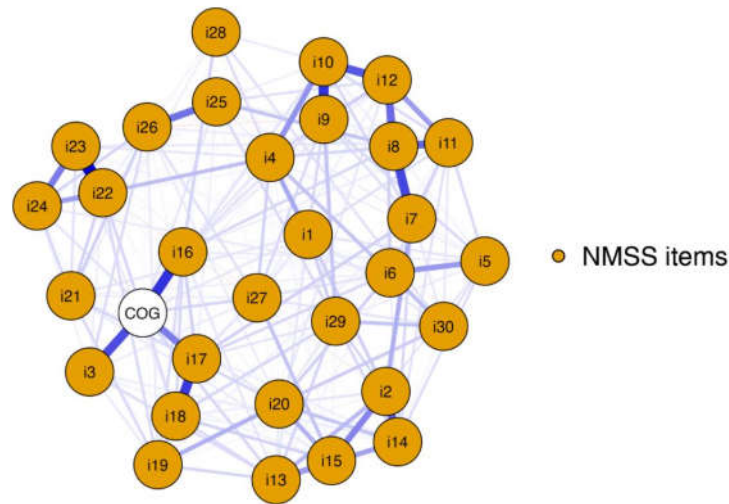

Figure S7: Network structure of the NMSS and COG. The node *COG* displays the PDQ-39 cognition subscale, and nodes *i1–i30* display the items included in the NMSS (orange). The thickness of the edges indicates the strengths of the correlations between these nodes. Item 1: light headedness; item 2: fainting; item 3: daytime sleepiness; item 4: fatigue; item 5: sleep initiation; item 6: restless legs; item 7: loss of interest; item 8: lack of motivation; item 9: feeling nervous; item 10: feeling sad; item 11: flat mood; item 12: anhedonia; item 13: hallucinations; item 14: delusions; item 15: diplopia; item 16: concentration; item 17: forgetfulness; item 18: forget to do things; item 19: sialorrhea; item 20: dysphagia; item 21: constipation; item 22: urgency; item 23: frequency; item 24: nocturia; item 25: interest; item 26: problems having sex; item 27: pain; item 28: taste/smell; item 29: weight change; and item 30: hyperhidrosis. NMSS: Nonmotor Symptoms Scale in Parkinson´s disease. PDQ-39: Parkinson´s Disease Questionnaire 39. COG: cognition subscale.

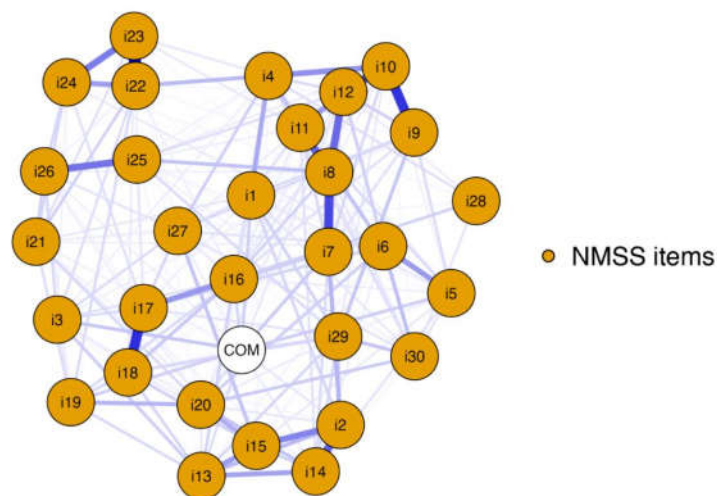

Figure S8: Network structure of the NMSS and COM. The node *COM* displays the PDQ-39 communication subscale, and nodes *i1–i30* display the items included in the NMSS (orange). The thickness of the edges indicates the strengths of the correlations between these nodes. Item 1: light headedness; item 2: fainting; item 3: daytime sleepiness; item 4: fatigue; item 5: sleep initiation; item 6:

restless legs; item 7: loss of interest; item 8: lack of motivation; item 9: feeling nervous; item 10: feeling sad; item 11: flat mood; item 12: anhedonia; item 13: hallucinations; item 14: delusions; item 15: diplopia; item 16: concentration; item 17: forgetfulness; item 18: forget to do things; item 19: sialorrhea; item 20: dysphagia; item 21: constipation; item 22: urgency; item 23: frequency; item 24: nocturia; item 25: interest; item 26: problems having sex; item 27: pain; item 28: taste/smell; item 29: weight change; and item 30: hyperhidrosis. NMSS: Nonmotor Symptoms Scale in Parkinson´s disease. PDQ-39: Parkinson´s Disease Questionnaire 39. COM: communication subscale.

Figure S9: Network structure of the NMSS and BOD. The node *BOD* displays the PDQ-39 bodily discomfort subscale, and nodes *i1–i30* display the items included in the NMSS (orange). The thickness of the edges indicates the strengths of the correlations between these nodes. Item 1: light headedness; item 2: fainting; item 3: daytime sleepiness; item 4: fatigue; item 5: sleep initiation; item 6: restless legs; item 7: loss of interest; item 8: lack of motivation; item 9: feeling nervous; item 10: feeling sad; item 11: flat mood; item 12: anhedonia; item 13: hallucinations; item 14: delusions; item 15: diplopia; item 16: concentration; item 17: forgetfulness; item 18: forget to do things; item 19: sialorrhea; item 20: dysphagia; item 21: constipation; item 22: urgency; item 23: frequency; item 24: nocturia; item 25: interest; item 26: problems having sex; item 27: pain; item 28: taste/smell; item 29: weight change; and item 30: hyperhidrosis. NMSS: Nonmotor Symptoms Scale in Parkinson´s disease. PDQ-39: Parkinson´s Disease Questionnaire 39. BOD: bodily discomfort subscale.
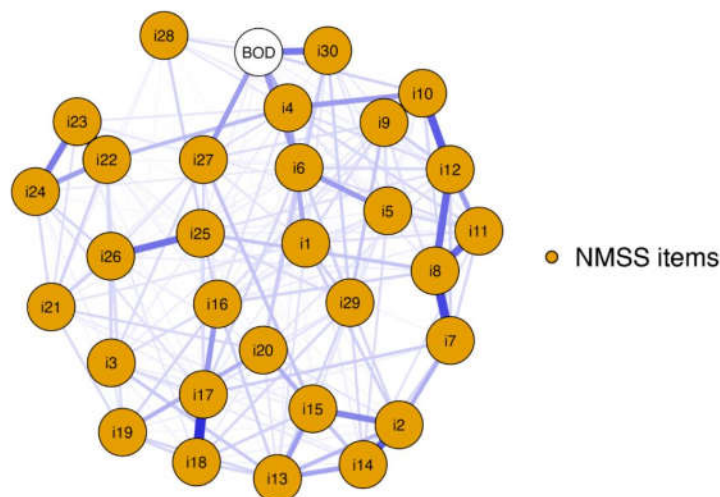
Figure S10: Case-dropping bootstrap bridge strength of the NMSS and PDQ-39 subscales (number of bootstraps = 1000). The correlations of the bridge strength centrality measure between the original sample and the subsamples with increasingly higher percentages of dropout cases were calculated. The correlation stability coefficient (CS coefficient) represents the maximum proportion of cases that can be dropped to retain a correlation of at least 0.70 with the original bridge strength in at least 95% of the samples. The 95% confidence interval of the correlation is indicated. The case-dropping bootstrap procedure showed that the CS coefficient of bridge strength (CS (cor = 0.7) = 0.67) remained stable. NMSS: Nonmotor Symptoms Scale in Parkinson´s disease. PDQ-39: Parkinson´s Disease Questionnaire 39.

Table S1: Network analysis of the PDQ-39 summary index.

Node	Strength	Predictability	Edge weight
PDQ	2.996	0.528	/
i1	−0.567	0.262	0.067
i2	0.662	0.411	0.000
i3	−1.072	0.185	0.086
i4	0.750	0.470	0.184
i5	−0.962	0.204	0.059
i6	−0.009	0.287	0.066
i7	0.151	0.477	0.007
i8	1.193	0.608	0.066
i9	0.082	0.427	0.040
i10	0.965	0.586	0.096
i11	0.577	0.496	0.099
i12	1.272	0.624	0.063
i13	0.312	0.401	0.025
i14	0.472	0.398	0.000
i15	0.103	0.285	0.000
i16	0.397	0.394	0.119
i17	0.664	0.370	0.037
i18	0.002	0.395	0.000
i19	−1.069	0.197	0.006
i20	0.154	0.282	0.106
i21	−1.121	0.185	0.010

i22	0.737	0.467	0.048
i23	0.067	0.448	0.011
i24	−0.857	0.272	0.000
i25	−0.738	0.247	0.023
i26	−0.766	0.197	0.000
i27	−0.714	0.205	0.107
i28	−2.440	0.087	0.072
i29	−0.236	0.279	0.042
i30	−1.004	0.185	0.092

The strength centrality measures and predictability are given nodewise for the PDQ-39 summary index (*PDQ*) and the items of the NMSS (*i1–i30*). The edge weights refer to the associations between the PDQ-39 summary index (*PDQ*) and each item of the NMSS (*i1–i30*). Item 1: light headedness; item 2: fainting; item 3: daytime sleepiness; item 4: fatigue; item 5: sleep initiation; item 6: restless legs; item 7: loss of interest; item 8: lack of motivation; item 9: feeling nervous; item 10: feeling sad; item 11: flat mood; item 12: anhedonia; item 13: hallucinations; item 14: delusions; item 15: diplopia; item 16: concentration; item 17: forgetfulness; item 18: forget to do things; item 19: sialorrhea; item 20: dysphagia; item 21: constipation; item 22: urgency; item 23: frequency; item 24: nocturia; item 25: interest; item 26: problems having sex; item 27: pain; item 28: taste/smell; item 29: weight change; and item 30: hyperhidrosis. NMSS: Nonmotor Symptoms Scale in Parkinson´s disease. PDQ-39: Parkinson´s Disease Questionnaire 39.

Table S2: Network characteristics of the PDQ-39 subscales.
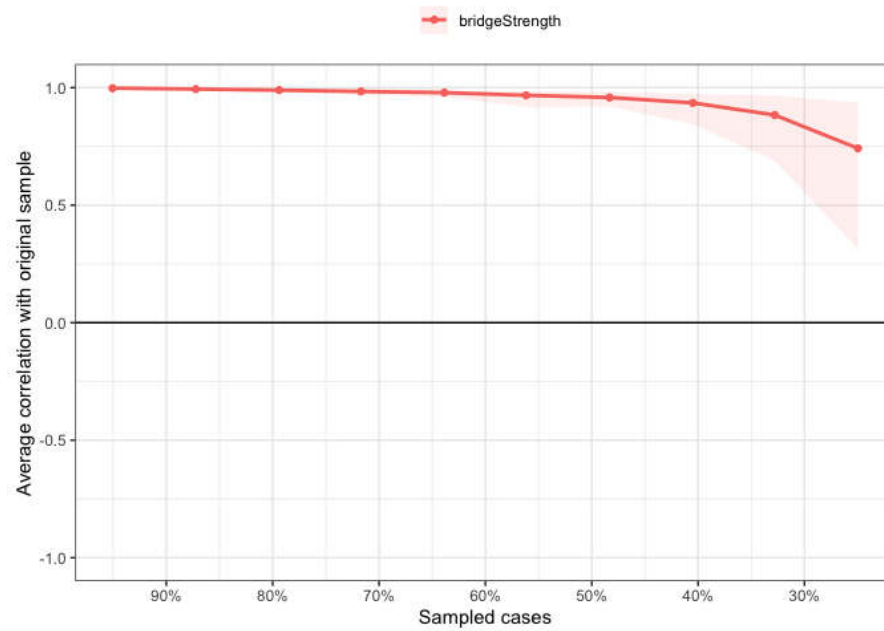
Network PDQ-39 subscale	Nonzero edges	Predictability sub-scale	CS strength
MOB	231 of 465	0.385	0.672
ADL	228 of 465	0.252	0.595
EMO	233 of 465	0.527	0.672
STI	226 of 465	0.143	0.672
SOC	234 of 465	0.239	0.595
COG	229 of 465	0.501	0.672
COM	229 of 465	0.222	0.672
BOD	228 of 465	0.403	0.595

For every network in the eight subscales, the number of nonzero edges, predictability of each node representing the PDQ-39 subscale, and correlation stability coefficient (CS coefficient) of the strength centrality measure are given separately (number of bootstraps = 1000). The CS coefficient represents the maximum proportion of cases that can be dropped to retain a correlation of at least 0.70 with the original strength in at least 95% of the samples. CS coefficients > 0.5 indicate that the networks are stable. PDQ-39 subscale coding: MOB, mobility; ADL, activities of daily living; EMO, emotional well-being; STI, stigma; SOC, social support; COG, cognition; COM, communication; BOD, bodily discomfort. PDQ-39: Parkinson´s Disease Questionnaire 39.

Table S3: Network analyses of the PDQ-39 subscales.

	MOB		ADL		EMO		STI		SOC		COG		COM		BOD	
PDQ-39 subscale	1.052	/	0.316	/	1.476	/	-1.885	/	-0.497	/	2.276	/	0.251	/	0.732	/
i1	–0.552	0.050	–0.427	0.057	–0.564	0.030	–0.356	0.017	–0.486	0.018	–0.522	0.040	–0.402	0.078	–0.549	0.000
i2	0.758	0.000	0.352	0.000	0.760	0.000	0.528	0.040	0.689	0.017	0.714	0.000	0.401	0.039	0.661	–0.009
i3	–1.120	0.022	–1.014	0.078	–1.136	0.000	–0.954	0.000	–1.094	0.005	–1.167	0.293	–0.995	0.091	–1.141	0.000
i4	1.366	0.251	1.347	0.121	1.269	0.061	1.177	0.000	1.294	0.000	1.138	0.021	1.227	0.000	1.278	0.126
i5	–1.041	0.000	–0.944	0.035	–1.086	0.080	–0.850	0.000	–1.005	0.000	–0.964	0.012	–0.855	0.080	–1.064	0.013
i6	0.092	0.051	0.162	0.000	0.087	0.040	0.209	0.000	0.132	0.000	0.097	0.003	0.161	0.000	0.262	0.169
i7	0.154	0.000	0.209	0.000	0.112	0.051	0.432	0.060	0.497	0.157	0.143	0.000	0.394	0.083	0.182	0.000
i8	1.421	0.062	1.603	0.071	1.421	0.076	1.386	0.000	1.411	0.007	1.309	0.003	1.459	0.000	1.436	0.000
i9	0.216	0.000	0.090	0.003	0.130	0.210	0.155	0.000	0.192	0.000	0.150	0.000	0.071	0.000	0.159	0.005
i10	1.174	0.009	1.285	0.000	1.209	0.276	1.220	0.000	1.356	0.075	1.132	0.046	1.281	0.000	1.328	0.075
i11	0.835	0.133	0.998	0.069	0.740	0.044	1.042	0.056	0.860	0.029	0.763	0.000	0.906	0.008	0.846	0.011
i12	1.589	0.043	1.693	0.000	1.499	0.081	1.809	0.064	1.622	0.000	1.508	0.000	1.797	0.037	1.642	0.023
i13	0.369	0.000	0.404	0.000	0.354	0.000	0.630	0.067	0.467	0.056	0.216	0.067	0.460	0.056	0.386	0.000
i14	0.520	0.000	0.568	0.000	0.493	0.024	0.677	0.039	0.668	0.092	0.478	0.000	0.569	0.032	0.547	0.000
i15	0.094	0.013	0.142	0.011	0.083	0.000	0.173	0.000	0.114	0.000	0.084	0.000	0.112	0.000	0.105	0.000
i16	0.699	0.018	0.783	0.028	0.653	0.015	0.764	0.000	0.813	0.050	0.490	0.336	0.847	0.069	0.739	0.020
i17	0.846	0.000	0.876	0.000	0.827	0.000	0.886	0.007	0.996	0.091	0.520	0.216	0.873	0.009	0.852	0.000
i18	–0.033	0.000	0.004	0.000	–0.048	0.007	0.062	0.000	–0.033	0.000	–0.167	0.056	0.044	0.033	–0.027	0.000
i19	–1.229	0.000	–1.177	0.067	–1.233	0.000	–1.072	0.000	–1.213	0.000	–1.195	0.010	–1.158	0.078	–1.255	0.000
i20	0.344	0.100	0.492	0.110	0.309	0.014	0.446	0.017	0.507	0.099	0.264	0.039	0.419	0.055	0.333	0.000
i21	–1.283	0.000	–1.331	0.000	–1.283	0.000	–1.121	0.000	–1.247	0.003	–1.185	0.009	–1.287	0.024	–1.315	0.000
i22	0.924	0.045	0.727	0.000	0.906	0.000	0.781	0.000	0.945	0.016	0.795	0.069	0.751	0.000	0.873	0.000
i23	0.062	0.028	0.118	0.008	0.070	0.000	0.178	0.006	0.101	0.000	0.058	0.000	0.121	0.005	0.089	0.000
i24	–1.017	0.000	–0.975	0.016	–1.030	0.000	–0.847	0.000	–0.989	0.000	–0.957	0.000	–0.999	0.000	–1.032	0.000
i25	–0.839	0.000	–0.819	0.000	–0.839	0.040	–0.671	0.000	–0.807	0.000	–0.783	0.043	–0.815	0.000	–0.817	0.028
i26	–0.837	0.030	–1.058	0.035	–0.540	–0.041	–0.914	0.000	–0.860	0.000	–0.827	0.009	–1.063	0.026	–0.960	0.000
i27	–0.632	0.081	–0.587	0.028	–0.650	0.008	–0.389	0.036	–0.593	0.008	–0.701	0.068	–0.592	0.027	–0.504	0.162
i28	–2.744	0.023	–2.820	0.059	–2.726	0.019	–2.584	0.000	–2.742	0.000	–2.582	0.005	–2.920	0.000	–2.785	0.061
i29	–0.220	0.011	–0.111	0.040	–0.277	0.024	–0.102	0.000	–0.159	0.030	–0.208	0.000	–0.097	0.054	–0.179	0.075
i30	–0.969	0.097	–0.906	0.061	–0.985	0.017	–0.809	0.000	–0.936	0.000	–0.880	0.000	–0.961	0.000	–0.824	0.220

Strength centrality measures of the eight network analyses of the PDQ-39 subscales are given node-wise for the subscale variable (*MOB, ADL, EMO, STI, SOC, COG, COM,* and *BOD*) and the items of the NMSS (*i1–i30*). Edge weights refer to the associations between the PDQ-39 subscale variable and each of the items of the NMSS (*i1–i30*). Item 1: light headedness; item 2: fainting; item 3: daytime sleepiness; item 4: fatigue; item 5: sleep initiation; item 6: restless legs; item 7: loss of interest; item 8: lack of motivation; item 9: feeling nervous; item 10: feeling sad; item 11: flat mood; item 12: anhedonia; item 13: hallucinations; item 14: delusions; item 15: diplopia; item 16: concentration; item 17: forgetfulness; item 18: forget to do things; item 19: sialorrhea; item 20: dysphagia; item 21: constipation; item 22: urgency; item 23: frequency; item 24: nocturia; item 25: interest; item 26: problems having sex; item 27: pain; item 28: taste/smell; item 29: weight change; and item 30: hyperhidrosis. MOB, mobility; ADL, activities of daily living; EMO, emotional well-being; STI, stigma; SOC, social support; COG, cognition; COM, communication; BOD, bodily discomfort. PDQ-39: Parkinson´s Disease Questionnaire 39. NMSS: Non-Motor Symptoms Scale in Parkinson´s disease.

Table S4. Affiliations of the collaborators of the COPPADIS Study Group.

Name (Last Name, First Name)	Location	Role	Contribution
Astrid Adarmes, Daniela	Hospital Universitario Virgen del Rocío, Sevilla, Spain	Site investigator	Evaluation of participants and/or data management
Almeria, Marta	Hospital Universitari Mutua de Terrassa, Terrassa, Barcelona, Spain	Site investigator	Neuropsychologist; evaluation of participants
Alonso Losada, Maria Gema	Hospital Álvaro Cunqueiro, Complejo Hospitalario Universitario de Vigo (CHUVI), Vigo, Spain	Site investigator/PI	Coordination at the center Evaluation of participants and/or data management
Alonso Cánovas, Araceli	Hospital Universitario Ramón y Cajal, Madrid, Spain	Site investigator	Evaluation of participants and/or data management
Alonso Frech, Fernando	Hospital Universitario Clínico San Carlos, Madrid, Spain	Site investigator	Evaluation of participants and/or data management
Alonso Redondo, Ruben	Hospital Universitario Lucus Augusti (HULA), Lugo, Spain	Site investigator/PI	Coordination at the center Evaluation of participants and/or data management
Aneiros Díaz, Ángel	Complejo Hospitalario Universitario de Ferrol (CHUF), Ferrol, A Coruña, Spain	Site investigator/PI	Coordination at the center Evaluation of participants and/or data management
Álvarez, Ignacio	Hospital Universitari Mutua de Terrassa, Terrassa, Barcelona, Spain	Site investigator	Evaluation of participants and/or data management
Álvarez Sauco, María	Hospital General Universitario de Elche, Elche, Spain	Site investigator/PI	Coordination at the center Evaluation of participants and/or data management
Arnáiz, Sandra	Complejo Asistencial Universitario de Burgos, Burgos, Spain	Site investigator	Evaluation of participants and/or data management
Arribas, Sonia	Hospital Universitari Mutua de Terrassa, Terrassa, Barcelona, Spain	Site investigator	Neuropsychologist; evaluation of participants
Ascunce Vidondo, Arancha	Complejo Hospitalario de Navarra, Pamplona, Spain	Site investigator	Evaluation of participants and/or data management
Aguilar, Miquel	Hospital Universitari Mutua de Terrassa, Terrassa, Barcelona, Spain	Site investigator	Evaluation of participants and/or data management

Ávila Rivera, Maria Asunción	Consorci Sanitari Integral, Hospital General de L´Hospitalet, L´Hospitalet de Llobregat, Barcelona, Spain	Site investigator/PI	Coordination at the center Evaluation of participants and/or data management
Bernardo Lambrich, Noemí	Hospital de Tortosa Verge de la Cinta (HTVC), Tortosa, Tarragona, Spain	Site investigator	Evaluation of participants and/or data management
Bejr-Kasem, Helena	Hospital de Sant Pau, Barcelona, Spain	Site investigator	Evaluation of participants and/or data management
Blázquez Estrada, Marta	Hospital Universitario Central de Asturias, Oviedo, Spain	Site investigator	Evaluation of participants and/or data management
Botí González, Maria Ángeles	Hospital Universitari Mutua de Terrassa, Terrassa, Barcelona, Spain	Site investigator	Neuropsychologist; evaluation of participants
Borrué, Carmen	Hospital Infanta Sofía, Madrid, Spain	Site investigator/PI	Coordination at the center Evaluation of participants and/or data management
Buongiorno, Maria Teresa	Hospital Universitari Mutua de Terrassa, Terrassa, Barcelona, Spain	Site investigator	Nurse study coordinator
Cabello González, Carolina	Complejo Hospitalario de Navarra, Pamplona, Spain	Site investigator	Scheduling of evaluations
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