Full list of raw variables, with rules for missing data and distribution shapes

N	Variable	Missing cases (n, %) (allowing 25% missing, n=509)	Analysis variable	Auxiliary variable (?)	Handling NA	Recoding notes	Distribution (denominator 509)
1	ConnectId						
2	ResponseId						
3	StartDate						
4	EndDate						
5	Status						
6	Progress						
7	Duration.in.seconds						
8	Finished						
9	RecordedDate						
10	Consent_1_main						
11	Consent_2_clinic						
12	Consent_3_draw						
13	Consent_4_remain						
14	Demo_1_gender	0	1			0 = woman	60% women
15	Demo_2_year	2	1		>> No action, leave NA	Calculated age at study	left/younger leaning
16	Demo_3_employ	0	1			0 = working	65% retired
17	Demo_4_volunteer	0	1			As is	189 147 189
18	Demo_5_first_visit			1			
19	Demo_5_first_visit_3_TEXT						
20	Demo_6_marital	0	1			0 = doesn't live alone	27% live alone
21	Phys_1_rate	7	1		>> No action, leave NA	As is	right/high leaning
22	Phys_2_comorb_1	0 1 7 25 28 29 500 4 1 1 1 1 30 1	1		>> Just count 'yes' only for multimorbidity score	Count	left/low leaning
23	Phys_2_comorb_2		1				
24	Phys_2_comorb_3		1				
25	Phys_2_comorb_4		1				
26	Phys_2_comorb_5		1				
27	Phys_2_comorb_6		1				
28	Phys_2_comorb_7		1				
29	Phys_2_comorb_8		1				
30	Phys_2_comorb_9		1				
31	Phys_2_comorb_10		1				
32	Phys_2_comorb_11		1				
33	Phys_2_comorb_12		1				
34	Phys_2_comorb_13		1				
35	Phys_2_comorb_14		1				
36	Phys_2_comorb_15		1				
37	Phys_2_comorb_16		1				
38	Phys_2_comorb_17		1				
39	Phys_2_comorb_18		1				
40	Phys_2_comorb_19		1				
41	Phys_2_comorb_20		1				
42	Phys_2_comorb_21		1				
43	Phys_2_comorb_22		1				
44	Phys_2_comorb_23		1				
45	Phys_2_comorb_24		1				
46	Phys_2_comorb_25		1				
47	Phys_2_comorb_26		1				
48	Phys_2_comorb_27		1				
49	Phys_2_comorb_28		1				
50	Phys_2_comorb_29		1				
51	Phys_2_comorb_30		1				
52	Phys_2_comorb_31		1				
53	Subj_vision_1_loss	0	1		Don't know coded NA	0 = no loss	215 290 22
54	Subj_vision_2_began						
55	Subj_vision_3_aids						
56	Subj_vision_4_list						
57	Subj_vision_4_list_10_TEXT						
58	Subj_vision_5_rate	1	1		>> No action, leave NA	As is	right/high leaning
59	Subj_vision_6_no_aid			1			
60	Subj_vision_7_lens						
61	Subj_vision_7_lens_4_TEXT						
62	Subj_vision_8_check						
63	Subj_vision_8_check_1_TEXT						

64	**Subj_hear_1_loss**	36 7.07	1		None of the 36 missing use any hearing device >> No action, leave NA	0 = no loss	64% yes
65	**Subj_hear_2_began**			1			
66	**Subj_hear_3_aids**	155 30.5	1		>> No action, leave NA	As is	21% any devices
67	**Subj_hear_4_list**	405 79.6	1		>> No action, leave NA	As is	103 HA, 4 other
68	**Subj_hear_4_list_11_TEXT**						
69	**Subj_hear_5_rate**	159 31.2	???		Non-device: 157 missing Device users: 2 missing	As is	normal-ish, slight right
70	**Subj_hear_6_no_aids**	8 1.57	???		Non-device: 8 missing Device users: 0 missing	As is	slight left leaning
71	**Subj_hear_7_check**						
72	**Subj_hear_7_check_1_TEXT**						
73	**IOIHA_1_years**						
74	**IOIHA_1_years_2_TEXT**						
75	**IOIHA_2_time**						
76	**IOIHA_3_help**						
77	**IOIHA_4_difficulty**						
78	**IOIHA_5_worth**						
79	**IOIHA_6_affected**						
80	**IOIHA_7_bothered**						
81	**IOIHA_8_enjoyment**						
82	**Tinnitus_1_experienc**	26 5.11	1		>> No action, leave NA	1 = yes for experienced + in past week, all other 0	34% past week
83	**Tinnitus_2_when**	258 50.7	1		>> No action, leave NA		
84	**Tinnitus_3_bother**						
85	**Tinnitus_4_fivemin**						
86	**Tinnitus_5_annoy**						
87	**SSQ15i_1_1**	0 1 2 3 4 5 413 26 7 5 1 13 6 7 10 11 15 2 1 37 1 3	1		**>> If there are other items within the subscale, impute mean of those items; if all 5 items missing subscale is NA**		
88	**SSQ15i_1_2**		1				
89	**SSQ15i_1_3**		1				
90	**SSQ15i_1_4**		1				
91	**SSQ15i_1_5**		1				
92	**SSQ15i_2_6**		1				
93	**SSQ15i_2_7**		1				
94	**SSQ15i_2_8**		1				
95	**SSQ15i_2_9**		1				
96	**SSQ15i_2_10**		1				
97	**SSQ15i_3_11**		1				
98	**SSQ15i_3_12**		1				
99	**SSQ15i_3_13**		1				
100	**SSQ15i_3_14**		1				
101	**SSQ15i_3_15**		1				
102	**SIM_1**	0 1 4 5 495 1 1 12	1		**>> Impute case mean** >> For all cells missing, code NA		
103	**SIM_2**		1				
104	**SIM_3**		1				
105	**SIM_4**		1				
106	**SIM_5**		1				
107	**EmoCheQ_1**	0 1 4 499 2 8	1		**>> Impute case mean** >> For all cells missing, code NA		
108	**EmoCheQ_2**		1				
109	**EmoCheQ_3**		1				
110	**EmoCheQ_4**		1				
111	**HHIES_1**	0 1 494 15	1		**>> Impute case mode within subscale** ("religious service" item)		
112	**HHIES_2**		1				
113	**HHIES_3**		1				
114	**HHIES_4**		1				
115	**HHIES_5**		1				
116	**HHIES_6**		1				
117	**HHIES_7**		1				
118	**HHIES_8**		1				
119	**HHIES_9**		1				
120	**HHIES_10**		1				
121	**SCI_1**	0	1			1 = positive, 0 = no, 15 NAs preserved	
122	**SCI_2**	0	1				
123	**SCI_3**	0	1				
124	**CSRQ_1**	0 1	1		**>> Impute case mean**	17 full NA's, otherwise 0	

125	CSRQ_2	507 2	1			to 12	
126	CSRQ_3		1				
127	CSRQ_4		1				
128	CSRQ_5		1				
129	CSRQ_6		1				
130	CSRQ_7		1				
131	CSRQ_8		1				
132	CSRQ_9		1				
133	CSRQ_10		1				
134	CSRQ_11		1				
135	CSRQ_12		1				
136	CSRQ_13		1				
137	CSRQ_14		1				
138	CSRQ_15		1				
139	CSRQ_16		1				
140	CSRQ_17		1				
141	CSRQ_18		1				
142	CSRQ_19		1				
143	CSRQ_20		1				
144	CSRQ_21		1				
145	CSRQ_22		1				
146	CSRQ_23		1				
147	CSRQ_24		1				
148	CSRQ_25		1				
149	Mobility_1	0	1		>> No action	1 = yes, 0 = no;	
150	Mobility_2_aids_1						
151	Mobility_2_aids_2						
152	Mobility_2_aids_3						
153	Mobility_2_aids_4						
154	Mobility_2_aids_5						
155	Mobility_2_aids_6						
156	Mobility_2_aids_7						
157	Mobility_2_aids_8						
158	Mobility_2_aids_9						
159	Mobility_2_aids_10						
160	Mobility_2_aids_11						
161	Mobility_2_aids_12						
162	ABC_1	0 2 508 1	1		>> Recode missing to 0's (single participant)	17 full NA's	
163	ABC_2		1				
164	ABC_3		1				
165	ABC_4		1				
166	ABC_5		1				
167	ABC_6		1				
168	ABC_7		1				
169	ABC_8		1				
170	ABC_9		1				
171	ABC_10		1				
172	ABC_11		1				
173	ABC_12		1				
174	ABC_13		1				
175	ABC_14		1				
176	ABC_15		1				
177	ABC_16		1				
178	SWLS_1	0	1			17 full NA's	
179	SWLS_2		1				
180	SWLS_3		1				
181	SWLS_4		1				
182	SWLS_5		1				
183	WHO_1_rate_qol_1	0	1				
184	WHO_2_health_satisf_1	0	1				
185	WHO_3_pai_med_enj_me_1	0 1 2 488 20 1	1		**>> WHO protocol specifies how to handle missing data** **>> List money item as a separate variable as well**	18 full NA's; Domain 3 has 19 NA's	
186	WHO_3_pai_med_enj_me_2						
187	WHO_3_pai_med_enj_me_3						
188	WHO_3_pai_med_enj_me_4						
189	WHO_4_conc_safe_env_1						
190	WHO_4_conc_safe_env_2						
191	WHO_4_conc_safe_env_3						

192	WHO_5_en_bd_mn_in_ls_1						
193	WHO_5_en_bd_mn_in_ls_2						
194	WHO_5_en_bd_mn_in_ls_3	0	1				right/high leaning
195	WHO_5_en_bd_mn_in_ls_4		1				
196	WHO_5_en_bd_mn_in_ls_5						
197	WHO_6_get_around_1						
198	WHO_7_sleep_etc_1						
199	WHO_7_sleep_etc_2						
200	WHO_7_sleep_etc_3						
201	WHO_7_sleep_etc_4						
202	WHO_7_sleep_etc_5						
203	WHO_7_sleep_etc_6						
204	WHO_7_sleep_etc_7						
205	WHO_7_sleep_etc_8						
206	WHO_7_sleep_etc_9						
207	WHO_7_sleep_etc_10						
208	WHO_8_neg_feelings_1						
209	PHQ_1	0 1 4 507 1 1	1		**>> For single missing, consistent values, impute mean** >> For all cells missing, code NA	19 full NA's	
210	PHQ_2		1				
211	PHQ_3		1				
212	PHQ_4		1				
213	CLSA_lonely	1	1		>> No action, leave NA	19 NA's; 0 = not lonely	22% lonely
214	Social_SNI_1_1	0 1 2 3 5 335 136 28 9 1	1		**>> No need to impute for scoring method** >> For all cells missing, code NA	Code all rows as either 1 or 0 for each of 8 SNI components, then recode 19 rows with NA's for 5 original SNI items	
215	Social_SNI_1_2		1				
216	Social_SNI_1_3		1				
217	Social_SNI_1_4		1				
218	Social_SNI_2_1		1				
219	Social_participate_1	0 1 2 8 495 12 1 1	1		**>> No need to impute for scoring methods** >> For all cells missing, code NA	Seek best frequency; number weekly types; 19 NA's	
220	Social_participate_2		1				
221	Social_participate_3		1				
222	Social_participate_4		1				
223	Social_participate_5		1				
224	Social_participate_6		1				
225	Social_participate_7		1				
226	Social_participate_8		1				
227	Relation_satisf_1_1						
228	Relation_satisf_1_2						
229	Relation_satisf_1_3						
230	Relation_satisf_2_1						
231	Relation_satisf_3_1						
232	Relation_satisf_4_1						
233	Relation_satisf_5_1						
234	Social_MOS_1	0 1 7 19 488 15 1 5	1		**>> For 1 to 7 cells missing, impute 'None of the time' (1)** >> For all cells missing, code NA	23 full NA's	
235	Social_MOS_2		1				
236	Social_MOS_3		1				
237	Social_MOS_4		1				
238	Social_MOS_5		1				
239	Social_MOS_6		1				
240	Social_MOS_7		1				
241	Social_MOS_8		1				
242	Social_MOS_9		1				
243	Social_MOS_10		1				
244	Social_MOS_11		1				
245	Social_MOS_12		1				
246	Social_MOS_13		1				
247	Social_MOS_14		1				
248	Social_MOS_15		1				
249	Social_MOS_16		1				
250	Social_MOS_17		1				
251	Social_MOS_18		1				
252	Social_MOS_19		1				
253	Soc_MOS_pet						
254	Views_connections_1	0 1 2 3 4 5 428 54 7 1 2 1 6 7 8 9 2 1 4 9	1		>> Excluded 'microcebia' item **>> Credited only if responded and correct** >> For all cells missing, code NA	27 full NA's	
255	Views_connections_2		1				
256	Views_connections_3		1				
257	Views_connections_4		1				
258	Views_connections_5		1				

259	Views_connections_6		1				
260	Views_connections_7		1				
261	Views_connections_8		1				
262	Views_connections_9		1				
263	Views_motivate_1	0 1 2 3 5 10 499 2 1 1 1 5	1		**>> For 1 to 5 cells missing, impute case mean** >> For all cells missing, code NA	23 full NA's	
264	Views_motivate_2		1				
265	Views_motivate_3		1				
266	Views_motivate_4		1				
267	Views_motivate_5		1				
268	Views_motivate_6		1				
269	Views_motivate_7		1				
270	Views_motivate_8		1				
271	Views_motivate_9		1				
272	Views_motivate_10		1				
273	Debrief						
274	ID.clinic						
275	Date.Most.Recent.Hearing.Eval						
276	Date.1st.Visit.Clinic						
277	Date.Most.Recent.Visit.Clinic						
278	New.Repeat.Customer						
279	HA.Purchase	78 15.3	1		>> No action, leave NA	83 NA	381 63
280	Date.HA.Purchase						
281	Number.HA.Purchase						
282	HA.Purchase.Ear						
283	Date.Fitting.Appt						
284	HA.Return						
285	Date.HA.Return						
286	Purchase.Accessories.ALD						
287	HA.Left.Type						
288	HA.Right.Type						
289	LE250c		1				
290	RE250c		1				
291	LE500c		1		**>> Make sure RE missing case has LE coded as BPTA** **>> single ear means no asymmetry measure** >> All other cases have BPTA4 coded NA		
292	RE500c		1				
293	LE1000c		1				
294	RE1000c		1				
295	LE2000c		1				
296	RE2000c		1				
297	LE4000c		1				
298	RE4000c		1				
299	LE8000c		1				
300	RE8000c		1				