

Full list of raw variables; recoding rules; rules for cleaning simple cases of missing values

N	Variable	Handling NA (denominator 509)	Recoding notes	Distribution (denominator 509)
1	ConnectId			
2	Responseld			
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 = woman	60% women
15	Demo_2_year	>> No action, leave NA	Calculated age at study	left/younger leaning
16	Demo_3_employ		0 = working	65% retired
17	Demo_4_volunteer		As is	189 147 189
18	Demo_5_first_visit			
19	Demo_5_first_visit_3_TEXT			
20	Demo_6_marital		0 = doesn't live alone	27% live alone
21	Phys_1_rate	>> No action, leave NA	As is	right/high leaning
22	Phys_2_comorb_1	>> Just count 'yes' only for multimorbidity score	Count	left/low leaning
23	Phys_2_comorb_2			
24	Phys_2_comorb_3			
25	Phys_2_comorb_4			
26	Phys_2_comorb_5			
27	Phys_2_comorb_6			
28	Phys_2_comorb_7			
29	Phys_2_comorb_8			
30	Phys_2_comorb_9			
31	Phys_2_comorb_10			
32	Phys_2_comorb_11			
33	Phys_2_comorb_12			
34	Phys_2_comorb_13			
35	Phys_2_comorb_14			
36	Phys_2_comorb_15			
37	Phys_2_comorb_16			
38	Phys_2_comorb_17			
39	Phys_2_comorb_18			
40	Phys_2_comorb_19			
41	Phys_2_comorb_20			
42	Phys_2_comorb_21			
43	Phys_2_comorb_22			

44	Phys_2_comorb_23			
45	Phys_2_comorb_24			
46	Phys_2_comorb_25			
47	Phys_2_comorb_26			
48	Phys_2_comorb_27			
49	Phys_2_comorb_28			
50	Phys_2_comorb_29			
51	Phys_2_comorb_30			
52	Phys_2_comorb_31			
53	Subj_vision_1_loss	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	>> No action, leave NA	As is	right/high leaning
59	Subj_vision_6_no_aid			
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	None of the 36 missing use any hearing device  >> No action, leave NA	0 = no loss	64% yes
65	Subj_hear_2_began			
66	Subj_hear_3_aids	>> No action, leave NA	As is	21% any devices
67	Subj_hear_4_list	>> No action, leave NA	As is	103 HA, 4 other
68	Subj_hear_4_list_11_TEXT			
69	Subj_hear_5_rate	Non-device: 157 missing Device users: 2 missing	As is	normal-ish, slight right
70	Subj_hear_6_no_aids	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	>> No action, leave NA	1 = yes for experienced + in past week, all other	34% past week
83	Tinnitus_2_when	>> No action, leave NA	0	

84	Tinnitus_3_bother			
85	Tinnitus_4_fivemin			
86	Tinnitus_5_annoy			
87	SSQ15i_1_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			
89	SSQ15i_1_3			
90	SSQ15i_1_4			
91	SSQ15i_1_5			
92	SSQ15i_2_6			
93	SSQ15i_2_7			
94	SSQ15i_2_8			
95	SSQ15i_2_9			
96	SSQ15i_2_10			
97	SSQ15i_3_11			
98	SSQ15i_3_12			
99	SSQ15i_3_13			
100	SSQ15i_3_14			
101	SSQ15i_3_15			
102	SIM_1	>> Impute case mean		
103	SIM_2			
104	SIM_3			
105	SIM_4			
106	SIM_5			
107	EmoCheQ_1	>> Impute case mean		
108	EmoCheQ_2			
109	EmoCheQ_3			
110	EmoCheQ_4			
111	HHIES_1	>> Impute case mode within subscale (in cases with two modes, choose the lower value) ("religious service" item)		
112	HHIES_2			
113	HHIES_3			
114	HHIES_4			
115	HHIES_5			
116	HHIES_6			
117	HHIES_7			
118	HHIES_8			
119	HHIES_9			
120	HHIES_10			
121	SCI_1		1 = positive, 0 = no, 15 NAs preserved	
122	SCI_2			
123	SCI_3			
124	CSRQ_1	>> Impute case mean	17 full NA's, otherwise 0 to 12	
125	CSRQ_2			
126	CSRQ_3			
127	CSRQ_4			
128	CSRQ_5			
129	CSRQ_6			

130	CSRQ_7		
131	CSRQ_8		
132	CSRQ_9		
133	CSRQ_10		
134	CSRQ_11		
135	CSRQ_12		
136	CSRQ_13		
137	CSRQ_14		
138	CSRQ_15		
139	CSRQ_16		
140	CSRQ_17		
141	CSRQ_18		
142	CSRQ_19		
143	CSRQ_20		
144	CSRQ_21		
145	CSRQ_22		
146	CSRQ_23		
147	CSRQ_24		
148	CSRQ_25		
149	Mobility_1	>> No action	1 = yes, 0 = no; 17 NA's preserved
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	>> Recode missing to 0's (single participant)	17 full NA's
163	ABC_2		
164	ABC_3		
165	ABC_4		
166	ABC_5		
167	ABC_6		
168	ABC_7		
169	ABC_8		
170	ABC_9		
171	ABC_10		
172	ABC_11		
173	ABC_12		
174	ABC_13		

175	ABC_14			
176	ABC_15			
177	ABC_16			
178	SWLS_1		17 full NA's	
179	SWLS_2			
180	SWLS_3			
181	SWLS_4			
182	SWLS_5			
183	WHO_1_rate_qol_1			
184	WHO_2_health_satisf_1			
185	WHO_3_pai_med_enj_me_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			right/high leaning
195	WHO_5_en_bd_mn_in_ls_4			
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	>> For single missing, consistent values, impute mean	19 full NA's	
210	PHQ_2			
211	PHQ_3			
212	PHQ_4			
213	CLSA_lonely	>> No action, leave NA	19 NA's; 0 = not lonely	22% lonely
214	Social_SNI_1_1	>> No need to impute for scoring method	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			
216	Social_SNI_1_3			
217	Social_SNI_1_4			
218	Social_SNI_2_1			
219	Social_participate_1	>> No need to impute for scoring methods	Seek best frequency; number weekly types; 19 NA's	
220	Social_participate_2			

221	Social_participate_3	>> For all cells missing, code NA		
222	Social_participate_4			
223	Social_participate_5			
224	Social_participate_6			
225	Social_participate_7			
226	Social_participate_8			
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	>> For 1 to 7 cells missing, impute 'None of the time' (1)	23 full NA's	
235	Social_MOS_2			
236	Social_MOS_3			
237	Social_MOS_4	>> For all cells missing, code NA		
238	Social_MOS_5			
239	Social_MOS_6			
240	Social_MOS_7			
241	Social_MOS_8			
242	Social_MOS_9			
243	Social_MOS_10			
244	Social_MOS_11			
245	Social_MOS_12			
246	Social_MOS_13			
247	Social_MOS_14			
248	Social_MOS_15			
249	Social_MOS_16			
250	Social_MOS_17			
251	Social_MOS_18			
252	Social_MOS_19			
253	Soc_MOS_pet			
254	Views_connections_1	>> Excluded 'microcebia' item	27 full NA's	
255	Views_connections_2			
256	Views_connections_3	>> Credited only if responded and correct		
257	Views_connections_4			
258	Views_connections_5	>> For all cells missing, code NA		
259	Views_connections_6			
260	Views_connections_7			
261	Views_connections_8			
262	Views_connections_9			
263	Views_motivate_1	>> For 1 to 5 cells missing, impute case mean	23 full NA's	
264	Views_motivate_2			
265	Views_motivate_3	>> For all cells missing, code NA		
266	Views_motivate_4			

267	Views_motivate_5			
268	Views_motivate_6			
269	Views_motivate_7			
270	Views_motivate_8			
271	Views_motivate_9			
272	Views_motivate_10			
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	>> 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			
290	RE250c			
291	LE500c	>> 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			
293	LE1000c			
294	RE1000c			
295	LE2000c			
296	RE2000c			
297	LE4000c			
298	RE4000c			
299	LE8000c			
300	RE8000c			