

Supplementary Online Content

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eMethods. NEO-PI Administration

eTable 1. Estimates From Hierarchical Linear Modeling (HLM) Analyses That Compared AD to Non-Impaired and Testing Linear and Quadratic Slope

eTable 2. Estimates From Hierarchical Linear Modeling (HLM) Analyses That Compared AD to Non-Impaired Excluding NEO-PI (1980-1986) Assessments

eTable 3. Estimates From Hierarchical Linear Modeling (HLM) Analyses That Compared AD to Non-Impaired Among Individuals With 2 or More Personality Assessment (Excluding Individuals With Only One Personality Assessment)

eTable 4. Estimates From Hierarchical Linear Modeling (HLM) Analyses That Compared All-Cause Dementia and MCI to Non-Impaired

eTable 5. Estimates From Hierarchical Linear Modeling (HLM) Analyses That Compared AD, Other Dementias, and MCI to Non-Impaired

eTable 6. Estimates From Hierarchical Linear Modeling (HLM) Analyses for Neuroticism Facets

eTable 7. Estimates From Hierarchical Linear Modeling (HLM) Analyses for Extraversion Facets

eTable 8. Estimates From Hierarchical Linear Modeling (HLM) Analyses for Openness Facets

eTable 9. Estimates From Hierarchical Linear Modeling (HLM) Analyses for Agreeableness Facets

eTable 10. Estimates From Hierarchical Linear Modeling (HLM) Analyses for Conscientiousness Facets

eTable 11. Mean-Level and Rank-Order Stability Over Last Two Personality Assessments

This supplementary material has been provided by the authors to give readers additional information about their work.

eMethods. NEO-PI Administration

The NEO-PI, an early version of the NEO-PI-R, was administered to a subgroup of the BLSA participants in 1980 and 1986. The NEO-PI-R has been administered to BLSA participants since 1989. The analyses included 414 assessments from 1980 (NEO-PI), 516 assessments from 1986 (NEO-PI), and 7,735 assessments completed between 1989 and 2016 (NEO-PI-R).

The NEO-PI overlaps with the NEO-PI-R for neuroticism, extraversion, and openness items. However, in 1980 there were no items for agreeableness and conscientiousness, and in 1986 there were 18 items each for agreeableness and conscientiousness. To examine the comparability of scores on NEO-PI-R with the earlier NEO-PI, we examined the correlation and the mean-level differences between the 1986 scores and the first available NEO-PI-R scores (an average of 8.32 years later) in a sample of 380 participants with available data. The correlations were 0.78 for neuroticism, 0.83 for extraversion, 0.85 for openness, 0.67 for agreeableness, and 0.71 for conscientiousness ($p < .01$). There were small mean-level differences between the 1986 NEO-PI and the first available NEO-PI-R, with significantly higher extraversion ($d = .14$; $p < .01$) and lower openness ($d = .10$; $p < .01$) with the NEO-PI-R. For the other traits the differences were not significant, and overall these results suggest that the data across the two versions are comparable.

To examine the potential impact of change in the personality instrument, we repeated the primary analyses excluding the 1980 and 1986 assessments that used the earlier version of the NEO-PI-R. These sensitivity analyses were thus based on data from 1989 and later years all of which were collected with the same questionnaire, the NEO-PI-R. The results of these analyses were essentially identical to those found in the full sample (eTable 2).

eTable 1. Estimates From Hierarchical Linear Modeling (HLM) Analyses That Compared AD to Non-Impaired and Testing Linear and Quadratic Slope

	Neuroticism			Extraversion			Openness			Agreeableness			Conscientiousness		
	b	SE	P	b	SE	P	b	SE	P	b	SE	P	b	SE	P
INTERCEPT	45.83	.34	.000	48.52	.37	.000	48.66	.37	.000	49.51	.36	.000	51.78	.38	.000
Sex (female=1)	.68	.41	.100	1.13	.44	.010	3.85	.45	.000	5.36	.43	.000	-.28	.45	.538
Age	-.13	.21	.535	-1.68	.22	.000	-1.82	.23	.000	.58	.22	.009	-.80	.23	.001
Age2	.02	.02	.341	-.02	.02	.305	.03	.02	.048	.00	.02	.761	-.05	.02	.004
Education, y	-.36	.08	.000	.43	.08	.000	1.07	.08	.000	-.07	.08	.408	.46	.08	.000
African-American	-1.11	.53	.036	1.67	.57	.004	.55	.57	.342	.74	.54	.170	2.24	.57	.000
AD	2.68	.78	.001	-1.79	.81	.027	-1.72	.82	.036	-1.08	.85	.201	-3.12	.87	.001
SLOPE															
TIME	.03	.04	.384	-.20	.03	.000	-.20	.03	.000	.09	.04	.044	-.12	.04	.007
Sex (female=1)	-.04	.05	.395	-.06	.04	.138	-.11	.04	.005	.04	.05	.457	.02	.05	.636
Age	.06	.02	.006	-.03	.02	.151	-.02	.02	.343	-.06	.03	.015	-.08	.03	.001
Age2	.01	.00	.006	.00	.00	.039	.01	.00	.000	.00	.00	.183	.00	.00	.327
Education	.01	.01	.264	-.01	.01	.096	-.01	.01	.238	.01	.01	.171	-.02	.01	.076
African-American	.00	.06	.944	.05	.06	.339	.11	.05	.037	-.01	.07	.846	.10	.07	.133
AD	-.09	.10	.391	.12	.09	.218	-.07	.09	.454	.00	.13	.998	.08	.13	.544
SLOPE-squared															
TIME	.00	.00	.003	-.01	.00	.000	.00	.00	.001	.00	.00	.900	-.01	.00	.000
Sex (female=1)	.00	.00	.821	.00	.00	.254	.00	.00	.023	.00	.00	.472	.00	.00	.254
Age	.00	.00	.828	.00	.00	.991	.00	.00	.705	.00	.00	.324	.00	.00	.445
Age2	.00	.00	.063	.00	.00	.222	.00	.00	.000	.00	.00	.138	.00	.00	.824
Education	.00	.00	.484	.00	.00	.210	.00	.00	.731	.00	.00	.089	.00	.00	.200
African-American	.00	.00	.168	.00	.00	.119	.00	.00	.243	.00	.00	.633	.01	.00	.115
AD	.00	.00	.261	.00	.00	.425	.00	.00	.900	.00	.01	.910	.01	.01	.213

Note: N = 1,881. AD = Alzheimer's disease; Age2 = Age squared.

eTable 2. Estimates From Hierarchical Linear Modeling (HLM) Analyses That Compared AD to Non-Impaired Excluding NEO-PI (1980-1986) Assessments.

	Neuroticism			Extraversion			Openness			Agreeableness			Conscientiousness		
	b	SE	P	b	SE	P	b	SE	P	b	SE	P	b	SE	P
INTERCEPT	45.58	0.37	.000	49.72	0.40	.000	49.30	0.41	.000	49.69	0.38	.000	52.19	0.41	.000
Sex (female=1)	0.63	0.42	.137	0.69	0.46	.137	3.64	0.48	.000	5.42	0.45	.000	-0.34	0.47	.476
Age	-0.09	0.22	.673	-1.88	0.23	.000	-1.91	0.24	.000	0.58	0.23	.011	-0.87	0.24	.001
Age2	0.01	0.02	.440	-0.04	0.02	.026	0.02	0.02	.316	0.00	0.02	.809	-0.05	0.02	.004
Education, y	-0.37	0.08	.000	0.43	0.09	.000	1.05	0.09	.000	-0.12	0.08	.148	0.51	0.09	.000
African-American	-0.83	0.53	.116	1.04	0.57	.069	0.26	0.60	.660	0.60	0.55	.281	1.91	0.59	.002
AD	3.53	0.83	.000	-1.43	0.89	.111	-1.22	0.93	.189	-1.00	0.88	.256	-3.64	0.92	.000
SLOPE															
TIME	-0.05	0.02	.017	-0.11	0.02	.000	-0.11	0.02	.000	0.11	0.02	.000	0.03	0.02	.128
Sex (female=1)	-0.06	0.02	.009	-0.02	0.02	.461	-0.05	0.02	.016	0.06	0.02	.007	0.00	0.02	.849
Age	0.07	0.01	.000	-0.05	0.01	.000	-0.02	0.01	.082	-0.05	0.01	.000	-0.08	0.01	.000
Age2	0.00	0.00	.010	0.00	0.00	.142	0.00	0.00	.000	0.00	0.00	.726	0.00	0.00	.122
Education	0.00	0.00	.300	-0.01	0.00	.107	-0.01	0.00	.059	0.00	0.00	.859	-0.01	0.00	.143
African-American	0.09	0.03	.001	-0.01	0.03	.584	0.06	0.03	.032	-0.05	0.03	.061	-0.02	0.03	.583
AD	0.07	0.06	.201	0.01	0.05	.832	-0.10	0.06	.056	0.00	0.06	.944	-0.03	0.06	.640

Note: N = 1,664

eTable 3. Estimates From Hierarchical Linear Modeling (HLM) Analyses That Compared AD to Non-Impaired Among Individuals With 2 or More Personality Assessment (Excluding Individuals With Only One Personality Assessment).

	Neuroticism			Extraversion			Openness			Agreeableness			Conscientiousness		
	b	SE	P	b	SE	P	b	SE	P	b	SE	P	b	SE	P
INTERCEPT	45.40	0.38	.000	49.01	0.42	.000	48.90	0.43	.000	49.71	0.40	.000	52.37	0.42	.000
Sex (female=1)	0.78	0.44	.079	1.38	0.50	.006	3.85	0.50	.000	5.62	0.47	.000	-0.59	0.50	.235
Age	-0.25	0.22	.265	-1.48	0.25	.000	-1.82	0.26	.000	0.75	0.24	.002	-0.80	0.25	.002
Age2	0.02	0.02	.232	-0.04	0.02	.042	0.01	0.02	.466	-0.01	0.02	.754	-0.06	0.02	.003
Education, y	-0.32	0.08	.000	0.44	0.10	.000	1.07	0.10	.000	-0.11	0.09	.225	0.44	0.09	.000
African-American	-0.84	0.55	.131	1.48	0.62	.017	0.50	0.63	.425	0.55	0.58	.349	2.07	0.62	.001
AD	2.95	0.82	.001	-1.56	0.91	.088	-1.02	0.93	.273	-0.88	0.87	.316	-3.54	0.92	.000
SLOPE															
TIME	-0.07	0.02	.000	-0.06	0.02	.001	-0.11	0.02	.000	0.10	0.02	.000	0.05	0.02	.006
Sex (female=1)	-0.04	0.02	.044	-0.03	0.02	.182	-0.04	0.02	.035	0.08	0.02	.000	-0.03	0.02	.255
Age	0.07	0.01	.000	-0.03	0.01	.001	-0.02	0.01	.105	-0.04	0.01	.000	-0.08	0.01	.000
Age2	0.00	0.00	.003	0.00	0.00	.188	0.00	0.00	.003	0.00	0.00	.685	0.00	0.00	.031
Education	0.00	0.00	.272	0.00	0.00	.393	0.00	0.00	.213	0.00	0.00	.858	-0.01	0.00	.198
African-American	0.10	0.03	.000	-0.05	0.03	.047	0.05	0.03	.049	-0.05	0.03	.060	-0.01	0.03	.684
AD	0.01	0.04	.878	0.07	0.04	.082	-0.04	0.04	.316	0.01	0.05	.753	-0.06	0.05	.208

Note: N = 1,505

eTable 4. Estimates From Hierarchical Linear Modeling (HLM) Analyses That Compared All-Cause Dementia and MCI to Non-Impaired

	Neuroticism			Extraversion			Openness			Agreeableness			Conscientiousness		
	b	SE	P	b	SE	P	b	SE	P	b	SE	P	b	SE	P
INTERCEPT	45.55	.33	.000	48.73	.36	.000	48.80	.36	.000	49.42	.35	.000	52.07	.37	.000
Sex (female=1)	.81	.39	.039	1.19	.43	.006	3.99	.43	.000	5.49	.41	.000	-.35	.44	.417
Age	-.08	.20	.674	-1.67	.22	.000	-1.77	.22	.000	.67	.21	.002	-.78	.22	.001
Age2	.01	.02	.390	-.01	.02	.391	.03	.02	.105	.01	.02	.690	-.05	.02	.004
Education, y	-.39	.07	.000	.45	.08	.000	1.09	.08	.000	-.09	.08	.218	.51	.08	.000
African-American	-.96	.51	.060	1.50	.56	.008	.46	.56	.414	.63	.52	.227	2.06	.56	.000
Dementia	2.87	.63	.000	-2.38	.68	.001	-1.65	.68	.016	-.98	.67	.142	-4.02	.72	.000
MCI	.01	.95	.993	-1.70	1.02	.095	-2.95	1.03	.005	-.18	1.00	.859	-.92	1.07	.390
SLOPE															
TIME	-.07	.02	.000	-.06	.02	.000	-.10	.02	.000	.10	.02	.000	.04	.02	.024
Sex (female=1)	-.05	.02	.022	-.02	.02	.260	-.04	.02	.033	.07	.02	.001	-.02	.02	.391
Age	.06	.01	.000	-.04	.01	.000	-.02	.01	.047	-.04	.01	.000	-.07	.01	.000
Age2	.00	.00	.010	.00	.00	.099	.00	.00	.002	.00	.00	.631	.00	.00	.140
Education	.00	.00	.477	.00	.00	.426	-.01	.00	.047	.00	.00	.801	.00	.00	.360
African-American	.10	.03	.000	-.06	.02	.022	.04	.02	.121	-.05	.03	.039	-.01	.03	.640
Dementia	.02	.04	.491	.02	.03	.498	-.07	.03	.034	-.02	.04	.534	-.08	.04	.071
MCI	.00	.06	.979	.02	.05	.722	-.09	.05	.112	.03	.06	.594	-.09	.07	.184

Note: N = 2,046.

eTable 5. Estimates From Hierarchical Linear Modeling (HLM) Analyses That Compared AD, Other Dementias, and MCI to Non-Impaired

	Neuroticism			Extraversion			Openness			Agreeableness			Conscientiousness		
	b	SE	P	b	SE	P	b	SE	P	b	SE	P	b	SE	P
INTERCEPT	45.55	.33	.000	48.74	.36	.000	48.80	.36	.000	49.41	.35	.000	52.08	.37	.000
Sex (female=1)	.81	.39	.039	1.17	.43	.007	3.99	.43	.000	5.50	.41	.000	-.38	.44	.380
Age	-.08	.20	.674	-1.68	.22	.000	-1.77	.22	.000	.67	.21	.002	-.79	.22	.001
Age2	.01	.02	.389	-.01	.02	.388	.03	.02	.106	.01	.02	.695	-.05	.02	.004
Education, y	-.39	.07	.000	.45	.08	.000	1.09	.08	.000	-.09	.08	.219	.51	.08	.000
African-American	-.97	.51	.060	1.50	.56	.008	.47	.56	.409	.65	.52	.219	2.05	.56	.001
AD	2.79	.71	.000	-1.72	.76	.024	-1.45	.77	.059	-1.00	.76	.186	-3.34	.81	.000
MCI	.01	.95	.993	-1.70	1.02	.095	-2.95	1.03	.005	-.18	1.00	.859	-.92	1.07	.391
Other dementias	3.10	1.20	.010	-4.46	1.29	.001	-2.28	1.31	.081	-.88	1.27	.491	-6.08	1.36	.000
SLOPE															
TIME	-.07	.02	.000	-.06	.02	.000	-.10	.02	.000	.10	.02	.000	.04	.02	.024
Sex (female=1)	-.05	.02	.023	-.02	.02	.236	-.04	.02	.029	.07	.02	.001	-.02	.02	.384
Age	.06	.01	.000	-.04	.01	.000	-.02	.01	.041	-.04	.01	.000	-.07	.01	.000
Age2	.00	.00	.010	.00	.00	.097	.00	.00	.002	.00	.00	.638	.00	.00	.139
Education	.00	.00	.468	.00	.00	.402	-.01	.00	.043	.00	.00	.757	.00	.00	.353
African-American	.10	.03	.000	-.06	.02	.023	.04	.02	.116	-.05	.03	.041	-.01	.03	.646
AD	.01	.04	.821	.06	.04	.105	-.04	.04	.305	.01	.05	.768	-.06	.05	.222
MCI	.00	.06	.980	.02	.05	.716	-.09	.05	.114	.03	.06	.592	-.09	.07	.185
Other dementias	.07	.07	.299	-.10	.07	.135	-.18	.07	.009	-.13	.08	.081	-.12	.08	.113

Note: N = 2,046.

eTable 6. Estimates From Hierarchical Linear Modeling (HLM) Analyses for Neuroticism Facets

	N1: Anxiety			N2: Angry Hostility			N3: Depression			N4: Self-consciousness			N5: Impulsiveness			N6: Vulnerability		
	b	SE	P	b	SE	P	b	SE	P	b	SE	P	b	SE	P	b	SE	P
INTERCEPT	45.99	.33	.000	47.68	.34	.000	45.52	.33	.000	46.78	.34	.000	47.65	.34	.000	46.71	.34	.000
Sex (female=1)	1.90	.40	.000	-1.85	.41	.000	.28	.39	.476	.37	.41	.358	.72	.40	.072	1.58	.40	.000
Age	-.43	.20	.034	-.48	.21	.020	.39	.20	.050	.25	.21	.227	-1.20	.20	.000	.91	.21	.000
Age2	.00	.02	.795	.00	.02	.971	.03	.02	.030	.02	.02	.129	-.03	.02	.084	.03	.02	.101
Education, y	-.25	.07	.001	-.22	.08	.004	-.33	.07	.000	-.36	.08	.000	-.09	.07	.242	-.47	.08	.000
African-American	.15	.51	.774	.06	.52	.904	-.82	.50	.102	-.20	.53	.703	-1.46	.52	.005	-2.13	.52	.000
AD	2.65	.71	.000	1.70	.72	.018	3.73	.70	.000	.96	.73	.186	-.27	.72	.703	3.88	.72	.000
SLOPE																		
TIME	-.05	.02	.008	.00	.02	.903	-.10	.02	.000	-.06	.02	.004	-.10	.02	.000	.00	.02	.829
Sex (female=1)	-.03	.02	.280	-.07	.02	.002	-.04	.02	.127	-.03	.02	.133	-.01	.02	.775	-.04	.02	.079
Age	.05	.01	.000	.04	.01	.000	.08	.01	.000	.04	.01	.001	.03	.01	.011	.07	.01	.000
Age2	.00	.00	.043	.00	.00	.805	.00	.00	.001	.00	.00	.018	.00	.00	.385	.00	.00	.111
Education	.01	.00	.184	.00	.00	.724	.01	.00	.271	.00	.00	.450	.00	.00	.328	.00	.00	.710
African-American	.08	.03	.008	.10	.03	.001	.06	.03	.046	.09	.03	.005	.05	.03	.105	.08	.03	.008
AD	-.01	.05	.897	.07	.05	.150	.01	.05	.806	-.03	.05	.519	-.03	.05	.547	.03	.05	.542

Note: N = 1,881.

eTable 7. Estimates From Hierarchical Linear Modeling (HLM) Analyses for Extraversion Facets

	E1: Warmth			E2: Gregariousness			E3: Assertiveness			E4: Activity			E5: Excitement-Seeking			E6: Positive Emotions		
	b	SE	P	b	SE	P	b	SE	P	b	SE	P	b	SE	P	b	SE	P
INTERCEPT	49.64	.35	.000	49.60	.39	.000	53.38	.36	.000	48.60	.36	.000	46.97	.33	.000	47.19	.37	.000
Sex (female=1)	3.04	.42	.000	2.05	.46	.000	-.83	.43	.052	1.77	.43	.000	-3.81	.40	.000	3.40	.44	.000
Age	-.43	.21	.045	-.23	.24	.328	-1.37	.22	.000	-2.04	.22	.000	-.97	.20	.000	-1.79	.23	.000
Age2	-.03	.02	.046	-.02	.02	.294	-.05	.02	.002	-.02	.02	.340	.02	.02	.158	.00	.02	.913
Education, y	.12	.08	.134	.05	.09	.532	.75	.08	.000	.61	.08	.000	.06	.07	.438	.28	.08	.001
African-American	-.35	.54	.513	.70	.60	.241	1.50	.55	.007	-.27	.55	.622	2.08	.51	.000	1.93	.57	.001
AD	-.61	.74	.412	.17	.81	.837	-1.58	.75	.034	-2.37	.76	.002	-.06	.70	.930	-2.87	.78	.000
SLOPE																		
TIME	.05	.02	.010	.03	.02	.058	-.02	.02	.192	-.15	.02	.000	-.07	.02	.000	-.08	.02	.000
Sex (female=1)	-.05	.02	.025	-.01	.02	.628	.02	.02	.339	-.02	.02	.335	-.01	.02	.652	-.02	.02	.306
Age	-.03	.01	.004	-.01	.01	.582	-.04	.01	.001	-.07	.01	.000	.03	.01	.004	-.04	.01	.002
Age2	.00	.00	.441	.00	.00	.524	.00	.00	.932	.00	.00	.216	.00	.00	.321	.00	.00	.037
Education	-.01	.00	.129	.00	.00	.799	.00	.00	.741	.00	.00	.300	.00	.00	.432	.00	.00	.446
African-American	-.06	.03	.045	-.02	.03	.567	-.07	.03	.009	-.01	.03	.636	-.02	.03	.452	-.01	.03	.744
AD	.08	.05	.086	.12	.04	.006	.03	.04	.528	-.03	.05	.558	.06	.04	.137	-.05	.05	.289

Note: N = 1,881.

eTable 8. Estimates From Hierarchical Linear Modeling (HLM) Analyses for Openness Facets

	O1: Fantasy			O2: Aesthetics			O3: Feelings			O4: Actions			O5: Ideas			O6: Values		
	b	SE	P	b	SE	P	b	SE	P	b	SE	P	b	SE	P	b	SE	P
INTERCEPT	49.55	.35	.000	49.27	.37	.000	48.02	.34	.000	47.11	.39	.000	51.94	.36	.000	48.80	.38	.000
Sex (female=1)	-.33	.42	.433	5.42	.44	.000	3.60	.41	.000	5.55	.46	.000	-.76	.44	.079	2.77	.45	.000
Age	-1.70	.22	.000	-.26	.23	.247	-1.85	.21	.000	-1.64	.24	.000	-.53	.22	.018	-1.46	.23	.000
Age2	.04	.02	.010	.04	.02	.035	-.01	.02	.496	-.02	.02	.238	.02	.02	.361	.01	.02	.764
Education, y	.46	.08	.000	.65	.08	.000	.66	.08	.000	.37	.09	.000	1.01	.08	.000	.99	.08	.000
African-American	-.65	.55	.239	2.78	.57	.000	-.07	.53	.892	.01	.60	.992	.20	.56	.724	-1.25	.58	.031
AD	-.86	.75	.252	.57	.77	.456	-.85	.74	.248	-1.45	.82	.076	-1.68	.76	.027	-1.47	.80	.064
SLOPE																		
TIME	-.05	.02	.005	-.02	.02	.204	-.09	.02	.000	-.16	.02	.000	-.01	.02	.616	-.10	.02	.000
Sex (female=1)	-.06	.02	.006	-.04	.02	.066	-.07	.02	.005	.02	.02	.406	-.02	.02	.365	.04	.02	.098
Age	.03	.01	.022	-.02	.01	.099	.00	.01	.833	-.05	.01	.000	-.02	.01	.144	-.01	.01	.526
Age2	.00	.00	.005	.00	.00	.130	.00	.00	.009	.00	.00	.552	.00	.00	.381	.00	.00	.233
Education	-.01	.00	.177	.00	.00	.211	.00	.00	.280	-.01	.00	.015	.00	.00	.809	.01	.00	.077
African-American	.02	.03	.593	.05	.03	.078	.05	.03	.101	.00	.03	.966	.03	.03	.338	.04	.03	.207
AD	-.01	.05	.840	.03	.04	.496	-.05	.05	.305	-.06	.05	.201	-.03	.04	.421	-.08	.05	.100

Note: N = 1,881.

eTable 9. Estimates From Hierarchical Linear Modeling (HLM) Analyses for Agreeableness Facets

	A1: Trust			A2: Straightforwardness			A3: Altruism			A4: Compliance			A5: Modesty			A6: Tender-mindedness		
	b	SE	P	b	SE	P	b	SE	P	b	SE	P	b	SE	P	b	SE	P
INTERCEPT	52.11	.35	.000	50.82	.36	.000	49.61	.38	.000	49.65	.39	.000	47.07	.38	.000	49.04	.40	.000
Sex (female=1)	2.46	.41	.000	3.39	.42	.000	3.59	.44	.000	4.74	.45	.000	3.69	.45	.000	3.83	.46	.000
Age	.60	.21	.004	.60	.21	.006	-.57	.22	.011	1.76	.23	.000	-.15	.23	.500	-.04	.23	.864
Age2	.00	.02	.803	-.02	.02	.299	-.04	.02	.016	.04	.02	.034	.01	.02	.676	.00	.02	.848
Education, y	.31	.08	.000	-.01	.08	.904	-.05	.08	.510	-.05	.08	.523	-.55	.08	.000	-.15	.09	.081
African-American	-1.97	.50	.000	-.81	.52	.122	1.10	.54	.044	-.39	.56	.492	1.38	.56	.013	3.84	.57	.000
AD	.79	.81	.333	-.77	.85	.367	-1.37	.88	.120	.24	.90	.787	-1.72	.89	.054	-1.24	.93	.182
SLOPE																		
TIME	-.01	.02	.600	.11	.02	.000	.04	.02	.083	.09	.02	.000	.07	.02	.002	.11	.03	.000
Sex (female=1)	.05	.03	.030	.01	.03	.838	.01	.03	.658	.05	.03	.043	.12	.03	.000	.01	.03	.816
Age	-.04	.01	.004	-.04	.01	.007	-.06	.01	.000	-.03	.01	.046	-.02	.01	.113	-.01	.01	.535
Age2	.00	.00	.819	.00	.00	.069	.00	.00	.995	.00	.00	.780	.00	.00	.977	.00	.00	.232
Education	-.01	.01	.318	.01	.01	.062	-.01	.01	.212	.00	.01	.826	.00	.01	.360	-.01	.01	.120
African-American	-.02	.03	.592	-.02	.03	.634	-.05	.03	.153	-.05	.03	.123	-.02	.03	.632	-.06	.04	.090
AD	.08	.06	.179	.04	.07	.535	-.02	.07	.761	.09	.07	.171	-.10	.06	.107	-.10	.07	.179

Note: N = 1,881.

eTable 10. Estimates From Hierarchical Linear Modeling (HLM) Analyses for Conscientiousness Facets

	C1: Competence			C2: Order			C3: Dutifulness			C4: Achievement Striving			C5: Self-Discipline			C6: Deliberation		
	b	SE	P	b	SE	P	b	SE	P	b	SE	P	b	SE	P	b	SE	P
INTERCEPT	54.24	.39	.000	48.57	.40	.000	53.36	.35	.000	51.29	.40	.000	49.28	.42	.000	53.39	.38	.000
Sex (female=1)	.25	.45	.579	.24	.47	.604	.28	.40	.490	-1.10	.47	.019	-.60	.49	.218	-.47	.44	.279
Age	-1.57	.23	.000	-.22	.24	.348	-.04	.21	.834	-.91	.24	.000	-.87	.25	.001	-.33	.22	.136
Age2	-.07	.02	.000	-.02	.02	.375	-.04	.02	.004	-.02	.02	.174	-.05	.02	.008	-.03	.02	.052
Education, y	.76	.08	.000	.14	.09	.106	.25	.08	.001	.63	.09	.000	.28	.09	.002	.23	.08	.006
African-American	1.96	.56	.001	1.76	.58	.003	-2.35	.50	.000	2.59	.58	.000	1.89	.61	.002	2.46	.54	.000
AD	-3.88	.90	.000	-3.41	.93	.000	-2.79	.82	.001	-.89	.93	.342	-4.17	.97	.000	-1.36	.87	.119
SLOPE																		
TIME	.04	.02	.088	-.02	.02	.513	.04	.02	.071	.05	.02	.057	-.03	.03	.307	.11	.02	.000
Sex (female=1)	-.02	.03	.545	.03	.03	.329	.02	.03	.474	-.02	.03	.394	.01	.03	.739	-.01	.03	.838
Age	-.07	.01	.000	-.03	.01	.056	-.07	.01	.000	-.03	.01	.075	-.07	.01	.000	-.05	.01	.000
Age2	.00	.00	.093	.00	.00	.942	.00	.00	.080	.00	.00	.704	.00	.00	.299	.00	.00	.201
Education	.00	.01	.964	.00	.01	.485	.00	.01	.357	-.02	.01	.000	.00	.01	.809	.00	.01	.552
African-American	-.06	.03	.094	.01	.03	.658	-.02	.03	.574	-.03	.03	.434	.02	.03	.477	-.04	.03	.225
AD	.01	.07	.879	-.11	.07	.110	-.04	.07	.541	-.06	.07	.375	-.08	.07	.271	.08	.07	.206

Note: N = 1,881.

eTable 11. Mean-Level and Rank-Order Stability Over Last Two Personality Assessments.

	Not impaired			AD		
	Time -1	Time 0	rtt	Time -2	Time -1	rtt
Neuroticism	46.04	46.06	0.84	49.05	48.47	0.87
Extraversion	49.87	49.48	0.88	47.41	46.87	0.89
Openness	51.58	51.21	0.89	50.13	49.6	0.88
Agreeableness	51.83	52.4	0.84	51.37	51.48	0.82
Conscientiousness	51.89	51.82	0.86	47.91	48.06	0.82
age	69.37	73.13		77.58	80.58	
time	-3.76	0		-6.44	-3.47	

Notes: Not impaired (n = 1,374); AD = Alzheimer's disease (n = 131).