

**Table S1:** Comparisons of sample characteristics classified by null-hypothesis families

<b>Characteristics: Comparison of distributions</b>				
<b>Null-hypothesis family I (k=8, <math>\alpha_{corr}</math>=0.00625): MMSE-groups within evaluation</b>				
		<i>Pre</i>		<i>Post</i>
Female	$\chi^2 \approx 0.001$	$p \approx 0.977$ (n=285)	$\chi^2 \approx 0.346$	$p \approx 0.556$ (n=372)
Age <sup>a</sup>	$t \approx -1.213$ (df=282)	$p \approx 0.226$ (n=284) CI <sub>95%</sub> [-3.56, 0.84]	$t \approx -0.153$ (df=371)	$p \approx 0.879$ (n=373) CI <sub>95%</sub> [-1.89, 1.62]
Duration of Stay <sup>a</sup>	$t \approx -1.216$ (df <sub>corr</sub> =74)	$p \approx 0.228$ (n=271) CI <sub>95%</sub> [-2.51, 0.61]	$t \approx 0.919$ (df=367)	$p \approx 0.358$ (n=369) CI <sub>95%</sub> [-0.54, 1.48]
Duration of Interview <sup>b</sup>	$t \approx 0.044$ (df=273)	$p \approx 0.965$ (n=275) CI <sub>95%</sub> [-0:08, 0:08]	$t \approx -2.856$ (df <sub>corr</sub> =270)	$p \approx 0.005$ (n=365) CI <sub>95%</sub> [0:03, 0:20]
<b>Null-hypothesis family II (k=8, <math>\alpha_{corr}</math>=0.00625): Pre- and post-test within MMSE-groups</b>				
		<i>MMSE 18-30</i>		<i>MMSE 10-17</i>
Female	$\chi^2 \approx 2.068$	$p \approx 0.150$ (n=517)	$\chi^2 \approx 0.115$	$p \approx 0.734$ (n=140)
Age (years)	$t \approx -2.674$ (df <sub>corr</sub> =447)	$p \approx 0.008$ (n=517) CI <sub>95%</sub> [-3.09, -0.47]	$t \approx -0.451$ (df=138)	$p \approx 0.653$ (n=140) CI <sub>95%</sub> [-3.02, 1.89]
Duration of Stay (years)	$t \approx 0.562$ (df=501)	$p \approx 0.574$ (n=503) CI <sub>95%</sub> [-0.53, 0.96]	$t \approx 2.052$ (df <sub>corr</sub> =78)	$p \approx 0.043$ (n=137) CI <sub>95%</sub> [0.05, 3.22]
Duration of Interview (min.)	$t \approx -2.300$ (df <sub>corr</sub> =415)	$p \approx 0.022$ (n=506) CI <sub>95%</sub> [-0:14, -0:01]	$t \approx 0.630$ (df=132)	$p \approx 0.530$ (n=134) CI <sub>95%</sub> [-0:07, 0:15]
<b>Null-hypothesis family III (k=4, <math>\alpha_{corr}</math>=0.0125): Pre- and post-test within entire sample</b>				
Female	$\chi^2 \approx 2.043$	$p \approx 0.153$ (n=657)		
Age (years)	$t \approx -2.586$ (df <sub>corr</sub> =578)	$p \approx 0.010$ (n=657) CI <sub>95%</sub> [-2.67, -0.37]		
Duration of Stay (years)	$t \approx 1.539$ (df=638)	$p \approx 0.124$ (n=640) CI <sub>95%</sub> [-0.14, 1.18]		
Duration of Interview (minutes)	$t \approx -1.825$ (df <sub>corr</sub> =602)	$p \approx 0.068$ (n=640) CI <sub>95%</sub> [-0:11, 0:01]		

Notes: MMSE Mini-Mental State Examination; <sup>a</sup> Years; <sup>b</sup> Minutes; k Number of inferential tests; n Sample sizes; df Degrees of freedom; CI<sub>95%</sub> 95% Confidence interval;  $\chi^2$  Pearson Chi<sup>2</sup>; t Student's t