

**Table 3. Results from the longitudinal models**

Model	$\chi^2$	df	RMSEA	RMSEA 95% CI	CFI	TLI
<b>Main models</b>						
CFA model without CUs. (Longit-CFA.inp)	270.303*	48	.124	.110-.139	.883	.839
CFA model with CUs. (Longit-CFA-CU.inp)	103.067*	42	.070	.053-.087	.968	.950
ESEM model without CUs. (Longit-ESEM.inp)	207.188*	40	.118	.102-.134	.912	.855
ESEM model with CUs. (Longit-ESEM-CU.inp)	45.281	34	.033	.000-.057	.994	.988
<b>Longitudinal invariance models (with CUs)</b>						
Model L1: Configural (Long-inv-M1.inp)	45.281	34	.033	.000-.057	.994	.988
Model L2: Load. (Long-inv-M2.inp)	49.884	42	.025	.000-.049	.996	.993
Model L3: Load., uniq. (Long-inv-M3.inp)	65.565*	48	.038	.013-.057	.989	.985
Model L4: Load., FVC. (Long-inv-M4.inp)	58.852	45	.032	.000-.053	.993	.989
Model L5: Load., int. (Long-inv-M5.inp)	50.109	46	.017	.000-.043	.998	.997
Model L6: Load., uniq., FVC. (Long-inv-M6.inp)	79.727*	51	.043	.023-.061	.985	.980
Model L7: Load., int., uniq. (Long-inv-M7.inp)	69.000	52	.033	.000-.052	.991	.989
Model L8: Load., int., FVC. (Long-inv-M8.inp)	59.065	49	.026	.000-.048	.995	.993
Model L9: Load., int., uniq., FVC. (Long-inv-M9.inp)	80.094*	55	.039	.018-.057	.987	.984
Model L10: Load., int., FMeans. (Long-inv-M10.inp)	110.099*	48	.066	.050-.082	.967	.955
Model L11: Load., int., uniq., FMeans. (Long-inv-M11.inp)	129.210*	54	.068	.053-.083	.960	.952
Model L12: Load., int., FVC., FMeans. (Long-inv-M12.inp)	119.154*	51	.067	.051-.082	.964	.954
Model L13: Load., int., uniq., FVC., FMeans. (Long-inv-M13.inp)	140.205*	57	.070	.055-.084	.956	.949
<b>Multiple group (Treatment) longitudinal invariance models</b>						
Model LT1: Configural (LongTx-inv-M1.inp)	106.177*	68	.061	.037-.083	.980	.962
Model LT2: Load. (LongTx-inv-M2.inp)	127.550*	92	.051	.027-.071	.982	.974
Model LT3: Load., uniq. (LongTx-inv-M3.inp)	165.502*	110	.058	.039-.076	.971	.966
Model LT3p: Load., p. uniq. (LongTx-inv-M3p.inp)	140.536*	108	.045	.019-.064	.983	.979
Model LT4: Load., FVC. (LongTx-inv-M4.inp)	150.796*	101	.057	.037-.076	.974	.966
Model LT5: Load., int. (LongTx-inv-M5.inp)	133.720*	104	.044	.016-.064	.985	.981
Model LT6: Load., uniq., FVC. (LongTx-inv-M6.inp)	191.940*	119	.064	.047-.080	.962	.958
Model LT6p: Load., p. uniq., FVC. (LongTx-inv-M6p.inp)	163.643*	117	.052	.031-.069	.976	.973
Model LT7: Load., int., uniq. (LongTx-inv-M7.inp)	172.919*	122	.053	.033-.070	.974	.972
Model LT7p: Load., int., p. uniq. (LongTx-inv-M7p.inp)	146.652*	120	.038	.002-.058	.986	.985
Model LT8: Load., int., FVC. (LongTx-inv-M8.inp)	156.386*	113	.051	.029-.069	.978	.974
Model LT9: Load., int., uniq., FVC. (LongTx-inv-M9.inp)	198.307*	131	.059	.041-.075	.965	.965
Model LT9p: Load., int., p. uniq., FVC. (LongTx-inv-M9p.inp)	169.303*	129	.046	.023-.064	.979	.979
Model LT10: Load., int., FMeans. (LongTx-inv-M10.inp)	209.982*	110	.078	.062-.094	.948	.938
Model LT11: Load., int., uniq., FMeans. (LongTx-inv-M11.inp)	248.890*	128	.079	.065-.094	.938	.936
Model LT11p: Load., int., p. uniq., FMeans. (LongTx-inv-M11p.inp)	222.884*	126	.072	.056-.087	.950	.948
Model LT12: Load., int., FVC., FMeans. (LongTx-inv-M12.inp)	238.070*	119	.082	.067-.097	.939	.932
Model LT13: Load., int., uniq., FVC., FMeans. (LongTx-inv-M13.inp)	281.195*	137	.084	.070-.098	.926	.928
Model LT13p: Load., int., p. uniq., FVC., FMeans. (LongTx-inv-M13p.inp)	251.000*	135	.076	.061-.090	.940	.941

Model	$\chi^2$	df	RMSEA	RMSEA 95% CI	CFI	TLI
<b>Multiple group (Treatment X Gender) longitudinal invariance</b>						
Model LTG1: Configural (LongTxGx-inv-M1.inp)	140.160	136	.020	.000-.060	.998	.996
Model LTG2: Load. (LongTxGx-inv-M2.inp)	198.033	192	.020	.000-.055	.997	.996
Model LTG3: Load., uniq. (LongTxGx-inv-M3.inp)	284.098*	234	.053	.026-.074	.974	.971
Model LTG3pu: Load., p. uniq. (LongTxGx-inv-M3pu.inp)	238.796	232	.020	.000-.052	.996	.996
Model LTG4: Load., FVC. (LongTxGx-inv-M4.inp)	216.431	213	.015	.000-.051	.998	.998
Model LTG5: Load., int. (LongTxGx-inv-M5.inp)	355.553*	220	.091	.073-.108	.929	.915
Model LTG5pi: Load., p. int. (LongTxGx-inv-M5pi.inp)	218.947	219	.000	.000-.049	1.000	1.000
Model LTG6: Load., uniq., FVC. (LongTxGx-inv-M6.inp)	303.253*	255	.050	.021-.071	.975	.974
Model LTG6pu: Load., p. uniq., FVC. (LongTxGx-inv-M6 pu.inp)	254.651	253	.009	.000-.048	.999	.999
Model LTG7: Load., int., uniq. (LongTxGx-inv-M7.inp)	420.324*	262	.090	.074-.105	.917	.917
Model LTG7pi: Load., p. int., uniq. (LongTxGx-inv-M7pi.inp)	305.846*	261	.048	.017-.069	.977	.976
Model LTG7pu: Load., int., p. uniq. (LongTxGx-inv-M7pu.inp)	395.372*	260	.083	.066-.099	.929	.928
Model LTG7pipu: Load., p. int., p. uniq. (LongTxGx-inv-M7pipu.inp)	259.298	259	.004	.000-.047	1.000	1.000
Model LTG8: Load., int., FVC. (LongTxGx-inv-M8.inp)	375.659*	241	.086	.069-.103	.930	.923
Model LTG8pi: Load., p. int., FVC. (LongTxGx-inv-M8pi.inp)	237.381	240	.000	.000-.046	1.000	1.002
Model LTG9: Load., int., uniq., FVC. (LongTxGx-inv-M9.inp)	440.274*	283	.086	.070-.101	.918	.923
Model LTG9pi: Load., p. int., uniq., FVC. (LongTxGx-inv-M9pi.inp)	324.912*	282	.045	.011-.066	.978	.979
Model LTG9pu: Load., int., p. uniq., FVC. (LongTxGxGx-inv-M9pu.inp)	412.321*	281	.079	.062-.095	.931	.936
Model LTG9pipu: Load., p. int., p. uniq., FVC. (LongTxGxGx-inv-M9pipu.inp)	275.354	280	.000	.000-.043	1.000	1.002
Model LTG10: Load., int., FMeans. (LongTxGx-inv-M10.inp)	496.311*	234	.122	.107-.137	.863	.846
Model LTG10pi: Load., p. int., FMeans. (LongTxGx-inv-M10pi.inp)	348.569*	233	.081	.063-.099	.940	.932
Model LTG11: Load., int., uniq., FMeans. (LongTxGx-inv-M11.inp)	568.228*	276	.119	.105-.133	.847	.854
Model LTG11pi: Load., p. int., uniq., FMeans. (LongTxGx-inv-M11pi.inp)	433.165*	275	.088	.072-.103	.917	.921
Model LTG11pu: Load., int., p. uniq., FMeans. (LongTxGx-inv-M11pu.inp)	543.153*	274	.114	.100-.129	.860	.865
Model LTG11pipu: Load., p. int., p. uniq., FMeans. (LongTxGx-inv-M11pipu.inp)	387.603*	273	.075	.057-.091	.940	.942
Model LTG12: Load., int., FVC., FMeans. (LongTxGx-inv-M12.inp)	561.217*	255	.127	.112-.141	.840	.835
Model LTG12pi: Load., p. int., FVC., FMeans. (LongTxGx-inv-M12pi.inp)	405.553*	254	.089	.073-.105	.921	.918
Model LTG13: Load., int., uniq., FVC., FMeans. (LongTxGx-inv-M13.inp)	632.159*	297	.123	.109-.136	.825	.845
Model LTG13pi: Load., p. int., uniq., FVC., FMeans. (LongTxGx-inv-M13pi.inp)	490.311*	296	.094	.079-.108	.899	.910
Model LTG13pu: Load., int., p. uniq., FVC., FMeans. (LongTxGx-inv-M13pu.inp)	602.241*	295	.118	.104-.131	.840	.857
Model LTG13pipu: Load., p. int., p. uniq., FVC., FMeans. (LongTxGx-inv-M13pipu.inp)	440.628*	294	.082	.065-.097	.923	.931
<b>Multiple group (Treatment) longitudinal invariance with MIMIC (Gender)</b>						
MIMIC null (Long-MIMIC-null.inp)	372.438*	144	.103	.090-.116	.893	.884
MIMIC saturated (Long-MIMIC-satur.inp)	124.203	120	.015	.000-.044	.998	.997
MIMIC invariant int. (Long-MIMIC-base.inp)	275.208*	136	.083	.068-.097	.935	.925
MIMIC p. invariant int. (Long-MIMIC-DIF.inp)	130.125	132	.000	.000-.038	1.000	1.001
MIMIC p. invariant int. invariant across groups (Long-MIMIC-DIF-inv.inp)	131.757	134	.000	.000-.038	1.000	1.001
MIMIC p. invariant int. invariant across groups and invariant mean effects (Long-MIMIC-DIF-invm.inp)	191.339*	138	.051	.032-.067	.975	.972

**Note.** Names of the input file in the supplementary materials are reported in parentheses; \*:  $p \leq .05$ ; CFA: Confirmatory factor analysis; ESEM: Exploratory Structural Equation Modeling;  $\chi^2$ : Chi square test of model fit; df: degrees of freedom; RMSEA: Root Mean Square Error of Approximation; RMSEA 95% CI: 95% confidence interval of the RMSEA; TLI: Tucker-Lewis Index; CFI: Comparative Fit Index; Load: Loadings invariance; Uniq: Uniqueness invariance; FVC: Factor variance-covariance invariance; Int: Intercepts invariance; FMeans: Factor means invariance; p = partial invariance.

**Table 4. Correlations between factors in the longitudinal models**

	CFA models			ESEM models		
	<i>Pre-Test Anxiety</i>	<i>Pre-Test Depression</i>	<i>Post-Test Anxiety</i>	<i>Pre-Test Anxiety</i>	<i>Pre-Test Depression</i>	<i>Post-Test Anxiety</i>
Models without CUs.						
<i>Pre-Test Depression</i>	.656			.580		
<i>Post-Test Anxiety</i>	.444	.210		.449	.167	
<i>Post-Test Depression</i>	.295	.484	.610	.255	.489	.528
Models with CUs.						
<i>Pre-Test Depression</i>	.657			.572		
<i>Post-Test Anxiety</i>	.407	.224		.408	.199	
<i>Post-Test Depression</i>	.302	.377	.620	.256	.370	.550

**Table 5. Latent means (range) across time waves, treatment groups, and genders.**

	Control Males	Females	Experimental Males	Females
<i>Pre-Test Anxiety</i>	0 (fixed)	-.160 / -.149	-.005 / .012	-.070 / -.062
<i>Pre-Test Depression</i>	0 (fixed)	-.295 / -.236	.053 / .073	-.003 / .025
<i>Post-Test Anxiety</i>	-.156 / -.148	-.015 / -.011	.669* / .710*	-.970* / -.930*
<i>Post-Test Depression</i>	-.453* / -.374*	-.450* / -.373*	-.735* / -.610*	-1.251* / -1.035*

\*:  $p \leq .05$