

**Table 3: Model comparisons between males and females**

	Base Model vs. a Model with Heterogeneity only in ...			Model with Full Heterogeneity vs. Model with Heterogeneity only in ...			No Heterogeneity	Best Model (BIC) VC With Heterogeneity	Narrow-sense H <sup>2</sup>		Variance Ratio
	Non-Shared Variance	Genetic Variance	Total Variance	Non-Shared Variance	Genetic Variance	Total Variance			Male	Female	Total F:M
<b>Blood Analyses</b>											
RBC	****	****	****				****	Total	0.679	0.679	1.207
Hb	****	****	****	****		*	****	Genetic	0.553	0.416	0.763
MCH	***	****	****	****		*	****	Genetic	0.797	0.759	0.842
MO	****	****	****			*	****	Environmental	0.373	0.432	0.863
PLT	**	****	**	*			**	Genetic	0.493	0.554	1.137
HbA1C	****	****	****				****	Total	0.587	0.587	0.770
ALT	**	*	**			**	**	Environmental	0.256	0.229	1.118
Gammagt	****	****	****	**			****	Genetic	0.244	0.421	1.307
TRIGLYCERIDES	****	****	****			****	****	Environmental	0.292	0.354	0.825
IRON	****	****	****				****	Total	0.192	0.192	1.177
TRANSFERRIN	***	**	**				**	Total	0.197	0.197	1.137
<b>Anthropometric Measures</b>											
HEIGHT	****	**	**			**	****	Environmental <sup>‡</sup>	0.735	0.809	0.909
WEIGHT	****	****	****	****		**	****	Genetic <sup>‡</sup>	0.352	0.502	1.302
WAIST	****	****	****	****	****		****	Total <sup>‡</sup>	0.317	0.317	1.786
HIP	****	****	****	****		**	****	Genetic <sup>‡</sup>	0.268	0.479	1.406
BMI	****	****	****	****	*	*	****	Total <sup>‡</sup>	0.362	0.362	1.514
<b>Cardiovascular Function</b>											
systolic BP	****	****	****			*	****	Total <sup>‡</sup>	0.168	0.168	1.271
HR	****	****	****			*	****	Total	0.272	0.272	0.775
IMT	****	****	****			*	****	Total	0.186	0.186	0.760
mean BP	****	****	****				****	Total <sup>‡</sup>	0.150	0.150	1.189
PSV	****	**	****			*	***	Environmental <sup>‡</sup>	0.254	0.289	0.877
Wall/lumen	****	****	****			****	****	Total	0.227	0.227	0.725
normalized PWV	****	****	****			*	****	Environmental	0.174	0.204	0.853
AT	****	****	****			****	****	Total	0.089	0.089	1.474
<b>Psychological Traits</b>											
NEO N	**	***	**	*			**	Genetic	0.205	0.299	1.137
NEO E	**	**	**				**	Genetic	0.207	0.291	1.119
NEO A	****	****	****				****	Genetic	0.166	0.278	1.155
NEO N1	****	****	****	*			****	Total	0.179	0.179	1.274
NEO N3	****	****	****			*	****	Total	0.248	0.248	1.291
NEO N4	****	****	****	*		*	****	Genetic	0.121	0.249	1.175
NEO N6	**	**	**				**	Genetic	0.086	0.184	1.120
NEO E4	****	****	****				**	Total	0.189	0.189	1.148
NEO E5	****	****	****				****	Total	0.157	0.157	1.238
NEO E6	****	****	****	*		*	****	Total	0.162	0.162	1.309
NEO O1	****	*	***			**	**	Environmental	0.237	0.208	1.138
NEO O4	**	*	**			*	*	Environmental	0.199	0.178	1.116
NEO A1	***	****	****				***	Genetic	0.142	0.255	1.149
NEO A2	**	***	**				**	Genetic	0.122	0.223	1.133
NEO A4	****	****	****				****	Total	0.126	0.126	1.191
NEO A5	***	***	***				**	Total	0.148	0.148	1.136

<sup>‡</sup>: These models include genetic dominance or shared sibling environment

Note: only traits demonstrating heterogeneity in sex are listed. Traits cholesterol, LDL, G6PD and ESR are best fitted by a X-Link model

\*: p-value < 0.05

\*\* : p-value < 0.01

\*\*\*: p-value < 0.001

\*\*\*\*: p-value < 0.0005