

Table 2: Heritabilities for 98 quantitative traits under basic and dominance/household models

Traits	Effect of Covariates <sup>1</sup>			Basic Model				Dominance/Household Model		
	Sex	Age	Sex&Age	Sex	Age	Sex&Age	H <sup>2</sup>	Narrow H <sup>2</sup> $\sigma_g^2/\sigma^2$	Broad H <sup>2</sup> $(\sigma_g^2+\sigma_d^2)/\sigma^2$	Signif <sup>2</sup>
<b><u>Blood Analyses</u></b>										
RBC	0.207	0.003	0.015	****	****	****	0.672	0.655	0.779	*
Hb	0.360	0.002	0.010	****	****	****	0.473	0.445	0.605	**
MCV	0.007	0.036	0.004	****	****	****	0.762	0.758	0.789	
MCH	0.018	0.020	0.003	****	****	****	0.778	0.774	0.807	
WBC	0.034	0.010	0.004	****	****	****	0.384	0.329	0.631	****
NE	0.002	0.010	0.002	****	****	*	0.346	0.326	0.426	
LY	0.000	0.016	0.002		****	**	0.345	0.318	0.451	*
MO	0.034	0.010	0.000	****	****		0.404	0.378	0.519	*
EO	0.014	0.007	0.000	****	****		0.378	0.364	0.444	
BA	0.000	0.001	0.000				0.153	0.152	0.160	
PLT	0.050	0.020	0.002	****	****	**	0.528	0.507	0.643	*
HbF	0.007	0.013	0.001	****	****		0.641	0.631	0.706	
HbA2	0.001	0.011	0.000	*	****		0.721	0.705	0.842	**
HbA1C	0.013	0.167	0.002	****	****	**	0.587	0.553	0.809	**
G6PD	0.003	0.013	0.005	****	****	****	0.721	0.716	0.769	
SERUM GLUCOSE	0.048	0.193	0.003	****	****	****	0.362	0.314	0.566	***
SERUM INSULIN	0.000	0.004	0.005		****	****	0.256	0.239	0.316	
BUN	0.054	0.111	0.015	****	****	****	0.318	0.309	0.353	
SERUM CREATININE	0.222	0.017	0.002	****	****	****	0.346	0.330	0.420	
ALT	0.169	0.061	0.030	****	****	****	0.238	0.223	0.301	
AST	0.097	0.041	0.020	****	****	****	0.236	0.213	0.345	*
Gammagt	0.237	0.139	0.016	****	****	****	0.341	0.321	0.429	
FIBRINOGEN	0.066	0.081	0.002	****	****	**	0.270	0.243	0.373	*
CHOLESTEROL	0.000	0.226	0.007	*	****	****	0.424	0.374	0.643	****
HDL	0.112	0.016	0.006	****	****	****	0.487	0.471	0.581	*
LDL	0.002	0.180	0.006	****	****	****	0.425	0.377	0.658	****
TRIGLYCERIDES	0.038	0.112	0.015	****	****	****	0.322	0.295	0.428	*
IRON	0.048	0.002	0.003	****	****	****	0.193	0.186	0.220	
TRANSFERRIN	0.024	0.017	0.004	****	****	****	0.197	0.189	0.231	
BILIRUBIN, fractionated	0.054	0.016	0.000	****	****		0.348	0.340	0.390	
BILIRUBIN, total	0.049	0.009	0.000	****	****		0.425	0.413	0.483	
URIC ACID	0.288	0.082	0.008	****	****	****	0.342	0.338	0.359	
SODIUM	0.002	0.017	0.002	****	****	***	0.254	0.254	0.254	
POTASSIUM	0.004	0.043	0.001	****	****		0.183	0.177	0.208	
ESR	0.210	0.056	0.002	****	****	****	0.417	0.386	0.566	**
CRP	0.002	0.030	0.001	****	****		0.297	0.274	0.390	
TSH	0.001	0.026	0.000	****	****		0.384	0.373	0.423	
PSA	N/A	0.101	N/A	N/A	****	N/A	0.428	0.399	0.541	
<b><u>Anthropometric Measures</u></b>										
HEIGHT	0.407	0.142	0.002	****	****	****	0.801	0.770	1.000	****
WEIGHT	0.247	0.115	0.009	****	****	****	0.498	0.439	0.814	****
WAIST	0.126	0.294	0.008	****	****	****	0.370	0.312	0.648	****
HIP	0.000	0.155	0.009		****	****	0.450	0.386	0.754	****
BMI	0.030	0.315	0.012	****	****	****	0.427	0.355	0.781	****
<b><u>Cardiovascular Function</u></b>										
systolic BP	0.056	0.295	0.008	****	****	****	0.259	0.162	0.657	****
diastolic BP	0.034	0.271	0.005	****	****	****	0.191	0.122	0.467	****
HR	0.045	0.002	0.001	****	***		0.272	0.234	0.409	**
diam_S	0.155	0.109	0.005	****	****	****	0.437	0.388	0.657	****

diam_D	0.131	0.208	0.005	****	****	****	0.446	0.393	0.681	****
IMT	0.006	0.457	0.001	****	****	****	0.187	0.132	0.381	**
PWV	0.003	0.592	0.002	****	****	****	0.226	0.224	0.233	
pulse pressure	0.025	0.172	0.007	****	****	****	0.208	0.128	0.542	****
mean BP	0.050	0.312	0.005	****	****	****	0.230	0.147	0.562	****
Wall/lumen	0.027	0.165	0.006	****	****	****	0.224	0.194	0.356	*
Vascular mass	0.049	0.483	0.000	****	****	*	0.300	0.246	0.483	**
normalized PWV	0.005	0.382	0.000	****	****		0.195	0.195	0.195	
QTC	0.035	0.065	0.001	****	****		0.165	0.130	0.287	*
PR	0.018	0.072	0.001	****	****		0.285	0.273	0.338	
PSV	0.029	0.551	0.003	****	****	****	0.326	0.269	0.570	****
EDV	0.001	0.318	0.003	***	****	****	0.184	0.117	0.437	****
IP	0.106	0.191	0.002	****	****	****	0.250	0.171	0.577	****
SD_ratio	0.058	0.144	0.001	****	****	**	0.264	0.195	0.544	****
AT	0.014	0.027	0.007	****	****	****	0.090	0.078	0.138	
vti	0.008	0.249	0.008	****	****	****	0.255	0.225	0.367	*

### **Psychological Traits**

NEO N	0.075	0.006	0.000	****	****		0.258	0.211	0.448	**
NEO E	0.010	0.090	0.004	****	****	****	0.257	0.220	0.393	*
NEO O	0.017	0.168	0.011	****	****	****	0.329	0.285	0.536	***
NEO A	0.058	0.118	0.001	****	****	*	0.230	0.211	0.306	
NEO C	0.002	0.053	0.000	****	****		0.206	0.160	0.373	**
NEO N1	0.124	0.000	0.003	****		****	0.180	0.145	0.307	*
NEO N2	0.005	0.005	0.000	****	****		0.214	0.191	0.303	
NEO N3	0.047	0.014	0.000	****	****		0.247	0.210	0.399	*
NEO N4	0.027	0.000	0.000	****			0.196	0.184	0.242	
NEO N5	0.000	0.118	0.006		****	****	0.144	0.101	0.323	**
NEO N6	0.082	0.013	0.000	****	****		0.137	0.114	0.216	
NEO E1	0.003	0.001	0.002	****		**	0.191	0.189	0.199	
NEO E2	0.003	0.049	0.008	****	****	****	0.221	0.197	0.307	
NEO E3	0.026	0.014	0.004	****	****	****	0.211	0.146	0.434	****
NEO E4	0.000	0.007	0.003		****	****	0.190	0.166	0.274	
NEO E5	0.080	0.194	0.004	****	****	****	0.157	0.115	0.321	**
NEO E6	0.000	0.093	0.005		****	****	0.166	0.147	0.235	
NEO O1	0.008	0.153	0.008	****	****	****	0.218	0.205	0.275	
NEO O2	0.033	0.010	0.019	****	****	****	0.254	0.222	0.382	*
NEO O3	0.024	0.054	0.006	****	****	****	0.153	0.131	0.241	
NEO O4	0.011	0.069	0.000	****	****		0.185	0.164	0.265	
NEO O5	0.000	0.087	0.004		****	****	0.267	0.241	0.374	
NEO O6	0.001	0.140	0.005		****	****	0.188	0.151	0.324	*
NEO A1	0.001	0.034	0.001	*	****	*	0.205	0.189	0.262	
NEO A2	0.060	0.067	0.004	****	****	****	0.181	0.131	0.389	**
NEO A3	0.042	0.008	0.001	****	****	*	0.148	0.145	0.160	
NEO A4	0.009	0.117	0.003	****	****	****	0.132	0.132	0.132	
NEO A5	0.029	0.051	0.000	****	****		0.148	0.120	0.258	
NEO A6	0.032	0.030	0.003	****	****	****	0.096	0.079	0.160	
NEO C1	0.013	0.026	0.002	****	****	**	0.168	0.136	0.280	*
NEO C2	0.002	0.008	0.000	**	****		0.182	0.173	0.216	
NEO C3	0.002	0.075	0.000	**	****		0.129	0.091	0.264	*
NEO C4	0.007	0.005	0.000	****	****		0.118	0.098	0.186	
NEO C5	0.003	0.027	0.001	****	****		0.178	0.128	0.361	**
NEO C6	0.002	0.070	0.000	****	****		0.156	0.093	0.376	****

<sup>1</sup>: Effect of a covariate is the proportion of total phenotypic variance contributed to the covariate under the BASIC model

<sup>2</sup>: Column Signif is calculated based on a likelihood ratio test comparing a BASIC model with a dominance / household model

\*: p-value < 0.05

\*\*: p-value < 0.01

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

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