



Table 2: Correlations of BP in individuals measured in multiple studies, average tracking 7.1 years (SBP\DBP)

	Study1	Study2	Study3	Study4
Study 1 (N=320)				
Study 2 (N=424)	-			
Study 3 (N=751)	0.58	0.52		
Study 4 (N=566)	0.55	0.41	0.47	

> Multivariate variance component analysis shows no significant difference between the heritability of ambulatory and laboratory BP. No difference in heritability between studies / time points was found.

> Environmental factors influencing BP change over time.

> The genetic factors influencing BP remain consistent over time.

Table 3: multivariate VC modeling of BP

Tested models	SBP			DBP		
	$\Delta\chi^2$	Δdf	p	$\Delta\chi^2$	Δdf	p
Model 0: Full model, AE Cholesky decomposition	-	-	-	-	-	-
Model 1: No constant environmental influence over time points	4.8	6	0.57	5.6	6	0.47
Model 1 + Equal heritability between studies	11.5	9	0.24	8.3	9	0.50
Model 1 + Only a constant genetic influence on BP at all time points	8.7	12	0.73	10.3	12	0.59
Model 1 + Only a constant genetic influence on BP at all time points with equal effect size.	15.4	15	0.43	11.8	15	0.70

Figure 1
Most parsimonious pathway model showing latent genetic (A) and environmental (E) influences on BP.

SBP A = 0.51 E = 0.49

DBP A = 0.52 E = 0.48

