

Table 1- Number of twin individuals, means and standard deviations of height by sex and zygosity for both cohorts

	Boys			Girls		
	MZ	DZ	Opposite-sex pairs	MZ	DZ	Opposite-sex pairs
FinnTwin 12						
11-12 years	146 (7.23)	147 (6.76)	147 (6.81)	147 (7.39)	148 (7.48)	147 (7.49)
N	765	858	777	796	738	1557
14 years	164 (9.08)	165 (8.36)	165 (8.67)	161 (6.31)	162 (6.23)	162 (6.04)
N	681	760	707	755	698	1453
17 years	177 (6.37)	178 (6.72)	178 (6.69)	165 (6.02)	166 (6.04)	166 (5.87)
N	607	684	629	726	655	1296
Adult age	179 (6.70)	179 (6.99)	180 (6.45)	165 (6.15)	166 (6.50)	166 (6.36)
N	191	178	159	263	188	341
FinnTwin 16						
16 years	175 (7.37)	175 (7.10)	175 (6.84)	164 (5.38)	165 (5.73)	165 (5.41)
N	723	896	921	1014	888	1878
17 years	177 (6.80)	177 (6.69)	178 (6.29)	165 (5.49)	166 (5.78)	166 (5.40)
N	667	838	858	999	861	1788
18 years	178 (6.77)	179 (6.60)	179 (6.28)	165 (5.56)	166 (5.82)	166 (5.47)
N	677	839	866	999	870	1799
Adult age	179 (6.66)	179 (6.81)	180 (6.32)	165 (5.61)	166 (6.02)	166 (5.67)
N	639	769	833	942	838	1773

A., Ortega-Alonso, A., Rose, R.J., Kaprio, J., Rebato, E. and Silventoinen, K. (2011), Genetic and environmental influences on growth from late childhood to adulthood: A longitudinal study of two Finnish twin cohorts. **Am. J. Hum. Biol.**, 23: 764-773, which has been published in final form at <https://doi.org/10.1002/ajhb.21208>.

Table 2- Number of complete twin pairs and intraclass correlations of height with 95% CI by sex and zygosity for both cohorts

	Boys		Girls		Opposite-sex pairs
	MZ	DZ	MZ	DZ	DZ
FinnTwin 12					
11-12 years	0.93 (0.92-0.95)	0.53 (0.45-0.59)	0.92 (0.90-0.93)	0.51 (0.43-0.58)	0.50 (0.44-0.55)
N of pairs	376	422	390	358	749
14 years	0.93 (0.92-0.95)	0.51 (0.43-0.58)	0.92 (0.90-0.93)	0.48 (0.40-0.56)	0.41 (0.34-0.47)
N of pairs	326	362	373	340	689
17 years	0.92 (0.90-0.94)	0.49 (0.40-0.57)	0.89 (0.87-0.91)	0.50 (0.42-0.58)	0.47 (0.41-0.53)
N of pairs	292	322	353	320	618
Adult age	0.94 (0.90-0.96)	0.62 (0.46-0.74)	0.91 (0.87-0.93)	0.54 (0.37-0.67)	0.50 (0.36-0.61)
N of pairs	83	75	124	90	146
FinnTwin 16					
16 years	0.91 (0.89-0.93)	0.56 (0.49-0.62)	0.89 (0.87-0.91)	0.55 (0.48-0.61)	0.43 (0.37-0.48)
N of pairs	350	433	498	434	903
17 years	0.91 (0.88-0.92)	0.54 (0.46-0.60)	0.88 (0.86-0.90)	0.58 (0.51-0.64)	0.46 (0.40-0.51)
N of pairs	318	398	490	420	837
18 years	0.90 (0.87-0.92)	0.54 (0.47-0.60)	0.88 (0.86-0.90)	0.55 (0.48-0.61)	0.46 (0.40-0.51)
N of pairs	326	400	494	422	846
Adult age	0.90 (0.88-0.92)	0.54 (0.46-0.61)	0.89 (0.87-0.91)	0.54 (0.47-0.61)	0.49 (0.43-0.54)
N of pairs	297	334	447	394	780

Table 3- Fit of the univariate models for height at each age

	χ^2	<i>df</i>	P-value	AIC	χ^2	<i>df</i>	P-value	AIC	χ^2	<i>df</i>	P-value	AIC	χ^2	<i>df</i>	P-value	AIC
FinnTwin 12	11-12 years				14 years				17 years				Adult age			
Saturated model	29549	4675	-	20199	27326	4236	-	18854	23639	3830	-	15979	6476	1034	-	4408
ACE model	29568	4688	0.12	20192	27338	4249	0.53	18840	23654	3843	0.32	15968	6484	1047	0.89	4390
Parameter estimates same for both sexes	29589	4691	<0.001	20207	27571	4252	<0.001	19067	23678	3846	<0.001	15986	6487	1050	0.34	4387
No sex-specific genetic effects	29568	4689	0.72	20190	27339	4250	0.52	18839	23654	3844	0.85	15966	6484	1048	0.65	4388
AE model	29576	4691	0.04	20194	27345	4252	0.10	18841	23656	3846	0.49	15964	6487	1050	0.28	4387
FinnTwin 16	16 years				17 years				18 years				Adult age			
Saturated model	32844	5335	-	22174	30377	4983	-	20411	30431	4992	-	20447	27436	4490	-	18456
ACE model	32861	5348	0.19	22165	30403	4996	0.02	20411	30454	5005	0.05	20444	27454	4503	0.16	18448
Parameter estimates same for both sexes	33022	5351	<0.001	22320	30474	4999	<0.001	20476	30516	5008	<0.001	20500	27487	4506	<0.001	18475
No sex-specific genetic effects	32866	5349	0.02	22168	30404	4997	0.23	20410	30456	5006	0.12	20444	27454	4504	0.58	18446

AE model	32877	5351	<0.001	22175	30421	4999	<0.001	20423	30468	5008	0.003	20452	27467	4506	0.005	18455
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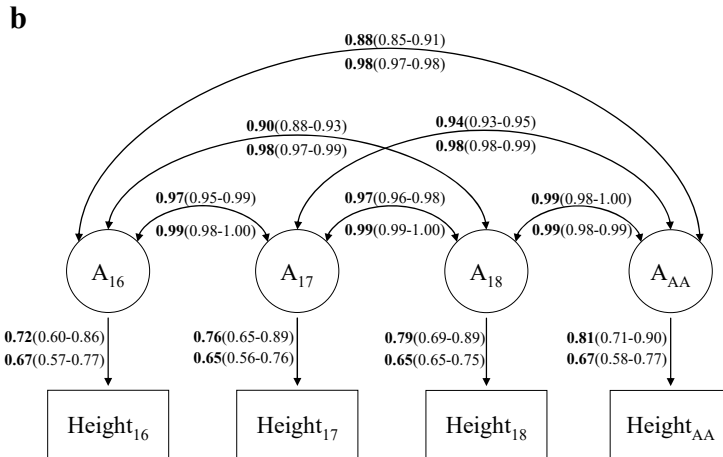
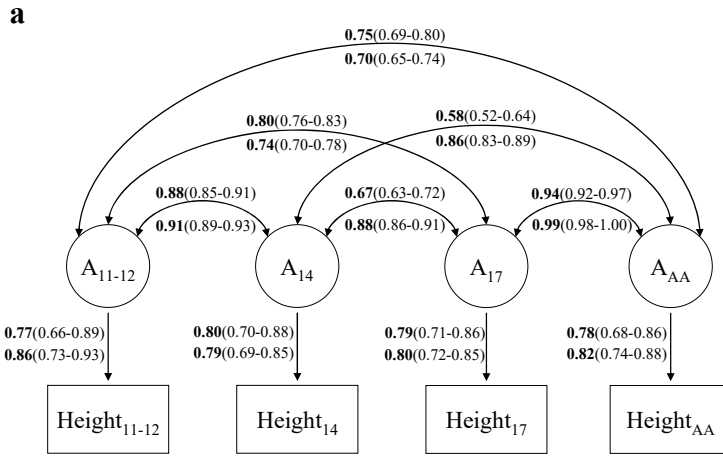


Fig. 1- Multivariate Cholesky decomposition; standardized parameter estimates corresponding to the unstandardized in Appendix 1. Each latent (unmeasured) variable (A) represents a set of additive genetic factors. Proportion of variance explained by additive genetic effects (one head arrows from latent variance components to height measurements) and genetic correlations (two-head arrows between latent variance components) (95% CI) for height at ages (a) 11-12, 14, 17 years and adult age (FinnTwin12) and (b) 16, 17, 18 years and adult age (FinnTwin16). Parameter values are shown above for boys and below for girls.

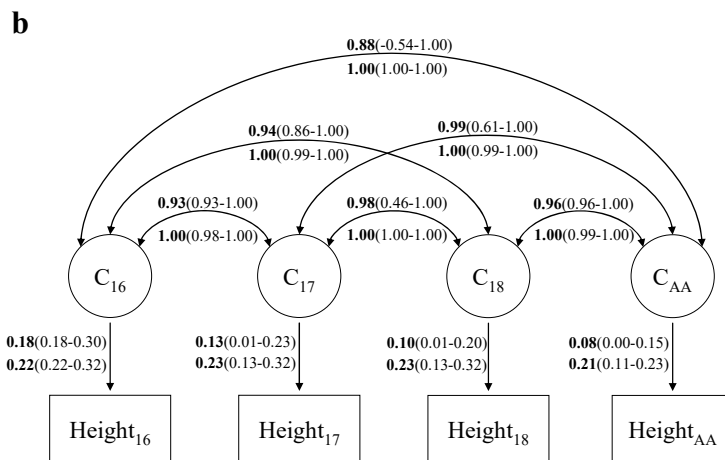
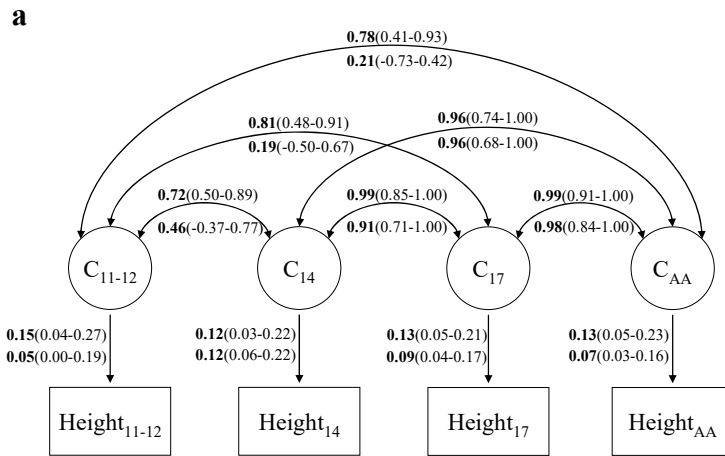


Fig. 2- Multivariate Cholesky decomposition; standardized parameter estimates corresponding to the unstandardized in Appendix 1. Each latent (unmeasured) variable (C) represents a set of common environmental factors. Proportion of variance explained by common environmental effects (one head arrows from latent variance components to height measurements) and correlations (two-head arrows between latent variance components) (95% CI) for height at ages (a) 11-12, 14, 17 years and adult age (FinnTwin12) and (b) 16, 17, 18 years and adult age (FinnTwin16). Parameter values are shown above for boys and below for girls.

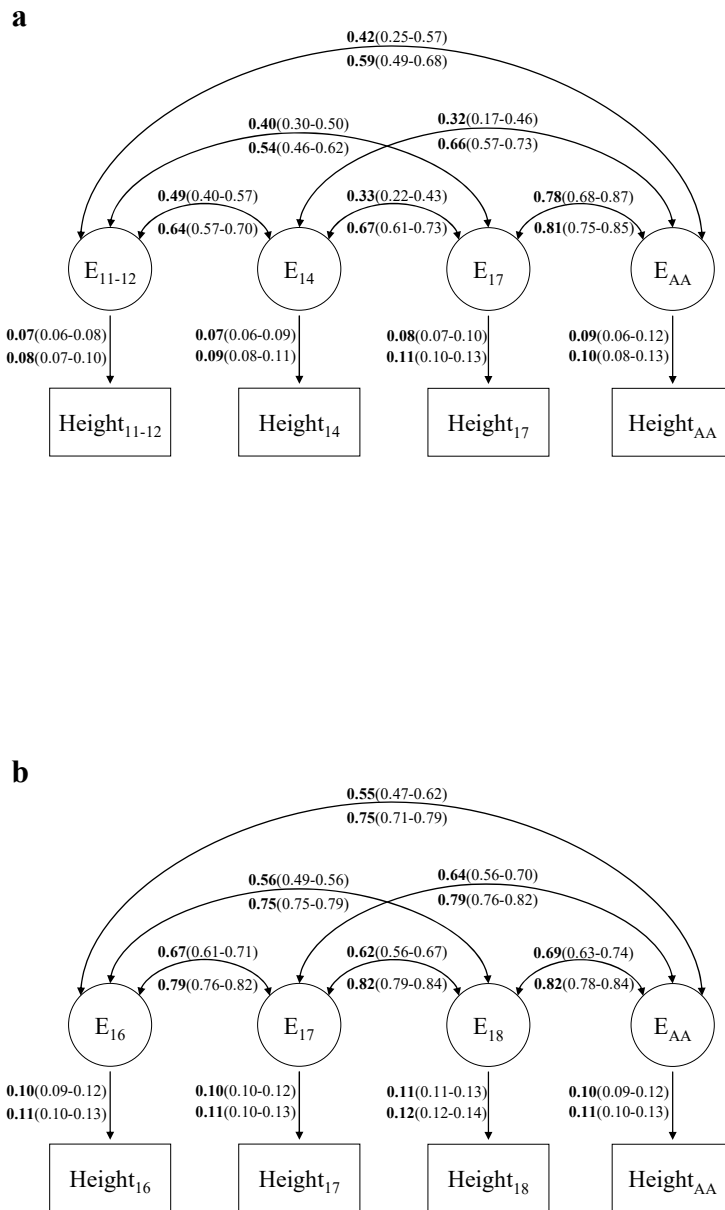


Fig. 3- Multivariate Cholesky decomposition; standardized parameter estimates corresponding to the unstandardized in Appendix I. Each latent (unmeasured) variable (E) represents a set of unique environmental factors. Proportion of variance explained by unique environmental effects (one head arrows from latent variance components to height measurements) and correlations (two-head arrows between latent variance components) (95% CI) for height at ages (a) 11-12, 14, 17 years and adult age (FinnTwin12) and (b) 16, 17, 18 years and adult age (FinnTwin16). Parameter values are shown above for boys and below for girls.

