

Supplemental Table. Estimated parameters from univariate biometric models for LUTS symptoms and total score

Symptom	Model	-2lnL	df	AIC	Δ -2LL	Δ df	p
Incomplete Emptying	ACE	6243.96	3156	-68.04	–	–	–
	AE	6243.96	3157	-70.04	0	1	1.00
	CE	6252.17	3157	-61.83	8.21	1	0.00
	E	6308.23	3158	-7.77	64.27	2	0.00
Frequency	ACE	9323.42	3152	3019.42	–	–	–
	AE	9323.42	3153	3017.42	0	1	1.00
	CE	9344.88	3153	3038.88	21.46	1	0.00
	E	9428.51	3154	3120.51	105.09	2	0.00
Intermittency	ACE	6709.09	3154	401.09	–	–	–
	AE	6709.11	3155	399.11	0.02	1	0.90
	CE	6716.60	3155	406.60	7.51	1	0.01
	E	6802.73	3156	490.73	93.63	2	0.00
Urgency	ACE	6364.38	3154	56.38	–	–	–
	AE	6364.38	3155	54.38	0	1	1.00
	CE	6371.44	3155	61.44	7.07	1	0.01
	E	6441.66	3156	129.66	77.29	2	0.00
Weak Stream	ACE	6440.64	3152	136.64	–	–	–
	AE	6440.64	3153	134.64	0	1	1.00
	CE	6451.95	3153	145.95	11.31	1	0.00
	E	6509.75	3154	201.75	69.1	2	0.00
Straining	ACE	4325.17	3153	-1980.83	–	–	–
	AE	4325.44	3154	-1982.56	0.26	1	0.61
	CE	4328.31	3154	-1979.69	3.14	1	0.08
	E	4385.45	3155	-1924.55	60.28	2	0.00
Nocturia	ACE	9134.34	3149	2836.34	–	–	–
	AE	9134.34	3150	2834.34	0	1	1.00
	CE	9139.11	3150	2839.11	4.77	1	0.03
	E	9172.85	3151	2870.85	38.51	2	0.00
I-PSS-Total	ACE	19503.52	3160	13183.52	–	–	–
	AE	19503.52	3161	13181.52	0	1	1.00
	CE	19524.32	3161	13202.32	20.81	1	0.00
	E	19667.83	3162	13343.83	164.31	2	0.00

Note: -2lnL = log-likelihood; df = degrees of freedom; AIC = Akaike information criterion; A = additive genetic, C = shared environment, E = non-shared environment; I-PSS = International

Prostate Symptom Score; $\Delta\chi^2$ and Δdf are relative to the base model; best fitting models in bold.