

Appendix A3: Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = VC$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	VC	None	95.6 (92.3; 97.5)	93.2 (89.4; 95.7)	95.6 (92.3; 97.5)	94.8 (91.3; 96.9)	95.6 (92.3; 97.5)	92.4 (88.4; 95.1)	95.6 (92.3; 97.5)	94.4 (90.8; 96.6)	95.6 (92.3; 97.5)	92.4 (88.4; 95.1)	95.6 (92.3; 97.5)	94.4 (90.8; 96.6)
		Int. only	99.2 (97.1; 99.8)	99.6 (97.8; 99.9)	100.0 (98.5; 100.0)	100.0 (98.5; 100.0)	97.2 (94.3; 98.6)	97.6 (94.9; 98.9)	96.4 (93.3; 98.1)	96.8 (93.8; 98.4)	96.4 (93.3; 98.1)	96.8 (93.8; 98.4)	96.8 (93.8; 98.4)	97.6 (94.9; 98.9)
		VC	98.8 (96.5; 99.6)	99.2 (97.1; 99.8)	99.2 (97.1; 99.8)	99.6 (97.8; 99.9)	94.4 (90.8; 96.6)	96.0 (92.8; 97.8)	94.8 (91.3; 96.9)	93.2 (89.4; 95.7)	93.6 (89.9; 96.0)	95.2 (91.8; 97.2)	96.0 (92.8; 97.8)	94.4 (90.8; 96.6)
		CS	99.6 (97.8; 99.9)	99.6 (97.8; 99.9)	99.6 (97.8; 99.9)	100.0 (98.5; 100.0)	97.2 (94.3; 98.6)	98.4 (96.0; 99.4)	90.4 (86.1; 93.5)	92.4 (88.4; 95.1)	96.0 (92.8; 97.8)	96.0 (92.8; 97.8)	92.0 (88.0; 94.8)	94.8 (91.3; 96.9)
		CSH	98.8 (96.5; 99.6)	99.2 (97.3; 99.8)	100.0 (98.5; 100.0)	100.0 (98.5; 100.0)	94.8 (91.3; 96.9)	94.4 (90.8; 96.6)	93.6 (89.9; 96.0)	93.6 (89.9; 96.0)	93.2 (89.4; 95.7)	93.2 (89.4; 95.7)	93.6 (89.9; 96.0)	94.0 (90.3; 96.3)
		AR(1)												
		ARH(1)	98.8 (96.5; 99.6)	99.2 (97.1; 99.8)	99.2 (97.1; 99.8)	99.6 (97.8; 99.9)	93.6 (89.9; 96.0)	94.8 (91.3; 96.9)	90.0 (85.7; 93.1)	90.8 (86.6; 93.8)	92.8 (88.9; 95.4)	92.4 (88.4; 95.1)	92.4 (88.4; 95.1)	92.4 (88.4; 95.1)
		TOEP												
		UN	99.6 (97.8; 99.9)	99.2 (97.1; 99.8)	99.6 (97.8; 99.9)	100.0 (98.5; 100.0)	91.6 (87.5; 94.4)	95.6 (92.3; 97.5)	90.8 (86.6; 93.8)	93.6 (89.9; 96.0)	91.2 (87.0; 94.1)	95.2 (91.8; 97.2)	91.2 (87.0; 94.1)	93.6 (89.9; 96.0)
		CS	98.8 (96.5; 99.6)	99.6 (97.8; 99.9)	99.2 (97.1; 99.8)	99.6 (97.8; 99.9)	95.2 (91.8; 97.2)	94.8 (91.3; 96.9)	94.4 (90.8; 96.6)	93.6 (89.9; 96.0)	95.2 (91.8; 97.2)	94.4 (90.8; 96.6)	94.4 (90.8; 96.6)	94.4 (90.8; 96.6)
		Int. only												
		VC												
		CS												
		CSH	98.8 (96.5; 99.6)	98.8 (96.5; 99.6)	99.6 (97.8; 99.9)	99.6 (97.8; 99.9)	94.8 (91.3; 96.9)	93.2 (89.4; 95.7)	92.0 (88.0; 94.8)	92.4 (88.4; 95.1)	94.4 (90.8; 96.6)	92.8 (88.9; 95.4)	92.8 (88.9; 95.4)	93.6 (89.9; 96.0)
		AR(1)												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = VC$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	CS	ARH(1)												
		TOEP												
		UN												
	CSH	None	98.8 (96.5; 99.6)	98.8 (96.5; 99.6)	99.6 (97.8; 99.9)	99.6 (97.8; 99.9)	94.8 (91.3; 96.9)	93.2 (89.4; 95.7)	92.0 (88.0; 94.8)	92.4 (88.4; 95.1)	94.4 (90.8; 96.6)	92.8 (88.9; 95.4)	92.8 (88.9; 95.4)	93.6 (89.9; 96.0)
		Int. only												
		VC												
		CS												
		CSH	98.4 (96.0; 99.4)	97.6 (94.9; 98.9)	99.2 (97.1; 99.8)	98.0 (95.4; 99.1)	93.6 (89.9; 96.0)	92.8 (88.9; 95.4)	89.2 (84.7; 92.5)	88.8 (84.3; 92.1)	90.8 (86.6; 93.8)	91.6 (87.5; 94.4)	90.0 (85.7; 93.1)	90.4 (86.1; 93.5)
		AR(1)												
		ARH(1)	99.2 (97.1; 99.8)	98.4 (96.0; 99.4)	99.6 (97.8; 99.9)	99.2 (97.1; 99.8)	93.6 (89.9; 96.0)	92.4 (88.4; 95.1)	88.4 (83.8; 91.8)	90.0 (85.7; 93.1)	91.6 (87.5; 94.4)	90.8 (86.6; 93.8)	89.2 (84.7; 92.5)	90.8 (86.6; 93.8)
		TOEP												
		UN	99.6 (97.8; 99.9)	98.8 (96.5; 99.6)	100.0 (98.5; 100.0)	98.8 (96.5; 100.1)	93.6 (89.9; 96.0)	91.6 (87.5; 94.4)	92.4 (88.4; 95.1)	89.6 (85.2; 92.8)	90.8 (86.6; 93.8)	90.8 (86.6; 93.8)	92.8 (88.9; 95.4)	90.4 (86.1; 93.5)
	AR(1)	None	95.6 (92.3; 97.5)	94.8 (91.3; 96.9)	96.0 (92.8; 97.8)	96.4 (93.3; 98.1)	90.8 (86.6; 93.8)	88.4 (83.8; 91.8)	86.0 (81.2; 89.8)	86.0 (81.2; 89.8)	88.8 (84.3; 92.1)	86.4 (81.6; 90.1)	86.0 (81.2; 89.8)	86.4 (81.6; 90.1)
		Int. only	100.0 (98.5; 100.0)	99.6 (97.8; 100.4)	100.0 (98.5; 100.0)	100.0 (98.5; 100.0)	97.2 (94.3; 98.6)	96.4 (93.3; 98.1)	96.8 (93.8; 98.4)	96.4 (93.3; 98.1)	96.4 (93.3; 98.1)	96.4 (93.3; 98.1)	96.8 (93.8; 98.4)	96.4 (93.3; 98.1)
		VC	99.6 (97.8; 99.9)	99.6 (97.8; 99.9)	100.0 (98.5; 100.0)	100.0 (98.5; 100.0)	96.8 (93.8; 98.4)	96.0 (92.8; 97.8)	94.8 (91.3; 96.9)	96.4 (93.3; 98.1)	96.0 (92.8; 97.8)	95.6 (92.3; 97.5)	94.8 (91.3; 96.9)	98.4 (96.0; 99.4)
		CS												
		CSH	99.2 (97.1; 99.8)	98.8 (96.5; 99.6)	99.2 (97.1; 99.8)	98.0 (95.4; 99.1)	94.8 (91.3; 96.9)	94.4 (90.8; 96.6)	92.8 (88.9; 95.4)	90.4 (86.1; 93.5)	92.8 (88.9; 95.4)	91.6 (87.5; 94.4)	94.0 (90.3; 96.3)	92.4 (88.4; 95.1)

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = VC$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	AR(1)	AR(1)												
		ARH(1)	99.2 (97.1; 99.8)	99.6 (97.8; 99.9)	99.6 (97.8; 99.9)	99.6 (97.8; 99.9)	96.0 (92.8; 97.8)	95.2 (91.8; 97.2)	93.6 (89.9; 96.0)	92.4 (88.4; 95.1)	94.8 (91.3; 96.9)	93.6 (89.9; 96.0)	94.4 (90.8; 96.6)	93.6 (89.9; 96.0)
		TOEP												
		UN	100.0 (98.5; 100.0)	99.2 (97.1; 100.3)	99.6 (97.8; 100.4)	99.2 (97.1; 100.3)	95.2 (91.8; 97.2)	93.6 (89.9; 96.0)	94.0 (90.3; 96.3)	93.2 (89.4; 95.7)	94.4 (90.8; 96.6)	92.8 (88.9; 95.4)	94.4 (90.8; 96.6)	94.4 (90.8; 96.6)
	ARH(1)	None	95.6 (92.3; 97.5)	95.6 (92.3; 97.5)	97.2 (94.3; 98.6)	97.2 (94.3; 98.6)	87.2 (82.5; 90.8)	89.6 (85.2; 92.8)	86.0 (81.2; 89.8)	90.0 (85.7; 93.1)	86.8 (82.0; 90.4)	88.8 (84.3; 92.1)	86.8 (82.0; 90.4)	90.4 (86.1; 93.5)
		Int. only												
		VC	99.6 (97.8; 99.9)	99.6 (97.8; 99.9)	100.0 (98.5; 100.0)	100.0 (98.5; 100.0)	94.4 (90.8; 96.6)	95.2 (91.8; 97.2)	93.2 (89.4; 95.7)	94.4 (90.8; 96.6)	94.4 (90.8; 96.6)	93.6 (89.9; 96.0)	94.4 (90.8; 96.6)	94.8 (91.3; 96.9)
		CS												
		CSH	99.6 (97.8; 99.9)	99.2 (97.1; 99.8)	100.0 (98.5; 100.0)	99.6 (97.8; 99.9)	92.8 (88.9; 95.4)	90.4 (86.1; 93.5)	93.6 (89.9; 96.0)	88.0 (83.4; 91.5)	92.4 (88.4; 95.1)	88.4 (83.6; 91.8)	94.4 (90.8; 96.6)	89.2 (84.7; 92.5)
		AR(1)												
		ARH(1)	98.8 (96.5; 99.6)	98.4 (96.0; 99.4)	100.0 (98.5; 100.0)	99.2 (97.1; 99.8)	92.8 (88.9; 95.4)	92.8 (88.9; 95.4)	91.2 (87.0; 94.1)	91.2 (87.0; 94.1)	91.6 (87.5; 94.4)	92.0 (88.0; 94.8)	91.6 (87.5; 95.4)	91.6 (87.5; 94.4)
		TOEP												
		UN	99.6 (97.8; 99.9)	98.8 (96.5; 99.6)	100.0 (98.5; 100.0)	99.6 (97.8; 99.9)	93.6 (89.9; 96.0)	92.4 (88.4; 95.1)	90.8 (86.6; 93.8)	91.6 (87.5; 94.4)	91.2 (87.0; 94.1)	91.6 (87.5; 94.4)	92.4 (88.4; 95.1)	93.2 (89.4; 95.7)
	TOEP	None	99.6 (98.8; 100.4)	98.4 (96.8; 100.0)	100.0 (100.0; 100.0)	99.2 (98.1; 100.3)	93.2 (89.4; 95.7)	93.6 (89.9; 96.0)	91.6 (87.5; 94.4)	92.4 (88.4; 95.1)	92.8 (88.9; 95.4)	93.2 (89.4; 95.7)	91.6 (87.5; 94.4)	92.8 (88.9; 95.4)
		Int. only												
		VC												
		CS												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = VC$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	TOEP	CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												
	UN	None	99.2 (97.8; 99.9)	98.8 (96.0; 99.4)	99.6 (98.5; 100.00)	99.6 (97.1; 99.8)	94.4 (90.8; 96.6)	92.0 (88.0; 94.8)	94.4 (90.8; 96.6)	88.0 (83.4; 91.5)	93.6 (89.9; 96.0)	90.8 (86.6; 93.8)	94.8 (91.3; 96.9)	89.2 (84.7; 92.5)
		Int. only												
		VC												
		CS												
		CSH												
		AR(1)												
		ARH(1)												
		TOEP												
	UN													

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = VC$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	VC	None	95.6 (92.3; 97.5)	92.4 (88.4; 95.1)	96.0 (92.8; 97.8)	94.8 (91.3; 96.9)	94.9 (90.3; 97.4)	93.7 (88.7; 96.5)	94.9 (90.3; 97.4)	94.9 (90.3; 97.4)				
		Int. only	93.2 (89.4; 95.7)	96.8 (93.8; 98.4)	97.2 (94.3; 98.6)	98.4 (96.0; 99.4)	96.0 (92.8; 97.8)	97.6 (94.9; 98.9)	96.8 (93.8; 98.4)	97.6 (94.9; 98.9)				
		VC	92.8 (88.9; 95.4)	94.0 (90.3; 96.3)	96.4 (93.3; 98.1)	95.6 (92.3; 97.5)	94.0 (90.3; 96.3)	96.0 (92.8; 97.8)	96.8 (93.8; 98.4)	94.8 (91.3; 96.9)				
		CS	94.4 (90.8; 96.6)	96.0 (92.3; 97.8)	92.8 (88.9; 95.4)	95.2 (91.8; 97.2)	96.0 (92.8; 97.8)	96.8 (93.8; 98.4)	92.4 (88.4; 95.1)	94.8 (91.3; 96.9)				
		CSH	91.2 (87.0; 94.1)	92.0 (88.0; 94.8)	94.0 (90.3; 96.3)	95.2 (91.8; 97.2)	95.2 (91.8; 97.2)	96.0 (92.8; 97.8)	95.6 (92.3; 97.5)	96.0 (92.8; 97.8)				
		AR(1)												
		ARH(1)	91.6 (87.5; 94.4)	91.6 (87.5; 94.4)	94.8 (91.3; 96.9)	95.2 (91.8; 97.2)	94.8 (91.3; 96.9)	95.6 (92.3; 97.5)	95.2 (91.8; 97.2)	94.8 (91.3; 96.9)				
		TOEP												
		UN	90.8 (86.6; 93.8)	94.0 (90.3; 96.3)	94.4 (90.8; 96.6)	96.8 (93.8; 98.4)	93.2 (89.4; 95.7)	96.4 (93.3; 98.1)	94.0 (90.3; 96.3)	96.0 (92.8; 97.8)				
		CS	92.0 (88.0; 94.8)	91.6 (87.5; 94.4)	97.2 (94.3; 98.6)	96.0 (92.8; 97.8)	95.1 (91.7; 97.2)	95.1 (91.7; 97.2)	95.5 (92.2; 97.5)	95.9 (92.7; 97.8)				
		Int. only												
		VC												
		CS												
		CSH	92.4 (88.4; 95.1)	91.2 (87.0; 94.1)	94.8 (91.3; 96.9)	96.0 (92.8; 97.8)	96.4 (93.3; 98.1)	95.2 (91.8; 97.2)	95.2 (91.8; 97.2)	94.8 (91.3; 96.9)				
		AR(1)												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = VC$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	CS	ARH(1)												
		TOEP												
		UN												
	CSH	None	92.0 (88.0; 94.8)	92.0 (88.0; 94.8)	98.8 (96.5; 99.6)	98.0 (95.4; 99.1)	97.2 (94.3; 98.6)	94.4 (90.8; 96.6)	96.4 (93.3; 98.1)	96.0 (92.8; 97.8)				
		Int. only												
		VC												
		CS												
		CSH	89.2 (84.7; 92.5)	89.6 (85.2; 92.8)	92.4 (88.4; 95.1)	91.6 (87.5; 94.4)	95.2 (91.8; 97.2)	93.6 (89.8; 96.0)	93.6 (89.8; 96.0)	92.8 (88.9; 95.4)				
		AR(1)												
		ARH(1)	89.6 (85.2; 92.8)	88.4 (83.8; 91.8)	93.2 (89.4; 95.7)	93.2 (89.4; 95.7)	94.0 (90.3; 96.3)	93.6 (89.9; 96.0)	93.6 (89.9; 96.0)	94.4 (90.8; 96.6)				
		TOEP												
		UN	89.6 (85.2; 92.8)	90.4 (86.1; 93.5)	94.4 (90.8; 96.6)	93.2 (89.4; 95.7)	96.0 (92.8; 97.8)	92.8 (88.9; 95.4)	95.2 (91.8; 97.2)	93.6 (89.9; 96.0)				
	AR(1)	None	87.6 (82.9; 91.1)	86.0 (81.2; 89.8)	90.0 (85.7; 93.1)	88.8 (84.3; 92.1)	95.6 (92.3; 97.5)	94.0 (90.3; 96.3)	95.2 (91.8; 97.2)	94.4 (90.8; 96.6)				
		Int. only	95.2 (91.8; 97.2)	96.4 (93.3; 98.1)	98.4 (96.0; 99.4)	98.4 (96.0; 99.4)	98.8 (96.5; 99.6)	97.6 (94.8; 98.9)	97.2 (94.3; 98.6)	96.8 (93.8; 98.4)				
		VC	94.8 (91.3; 96.9)	94.0 (90.3; 96.3)	96.4 (93.3; 98.1)	99.2 (97.1; 99.8)	96.8 (93.8; 98.4)	96.4 (93.3; 98.1)	95.6 (92.3; 97.5)	97.6 (94.9; 98.9)				
		CS												
		CSH	91.6 (87.5; 94.4)	90.4 (86.1; 93.5)	96.4 (93.3; 98.1)	93.6 (89.9; 96.0)	96.8 (93.8; 98.4)	95.2 (91.8; 97.2)	96.4 (93.3; 98.1)	96.4 (93.3; 98.1)				

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = VC$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	AR(1)	AR(1)												
		ARH(1)	93.6 (89.9; 96.0)	92.0 (88.0; 94.8)	95.6 (92.3; 97.5)	94.4 (90.8; 96.6)	96.4 (93.3; 98.1)	96.4 (93.3; 98.1)	97.2 (94.3; 98.6)	95.6 (92.3; 97.5)				
		TOEP												
		UN	93.2 (89.4; 95.7)	91.2 (87.0; 94.1)	95.6 (92.3; 97.5)	96.0 (92.8; 97.8)	96.8 (93.8; 98.4)	95.2 (91.8; 97.2)	98.8 (96.5; 99.6)	96.8 (93.8; 98.4)				
	ARH(1)	None	86.8 (82.0; 90.4)	88.0 (83.4; 91.5)	93.2 (89.4; 95.7)	92.4 (88.4; 95.1)	93.5 (89.7; 96.0)	94.7 (91.2; 96.9)	96.0 (92.7; 97.8)	96.8 (93.7; 98.4)				
		Int. only												
		VC	93.2 (89.4; 95.7)	92.8 (88.9; 95.4)	96.0 (92.8; 97.8)	97.2 (94.3; 98.6)	95.2 (91.8; 97.2)	96.0 (92.8; 97.8)	95.6 (92.3; 97.5)	96.0 (92.8; 97.8)				
		CS												
		CSH	90.0 (85.7; 93.1)	87.6 (82.9; 91.1)	96.4 (93.3; 98.1)	92.0 (88.0; 94.8)	96.0 (92.8; 97.8)	92.8 (88.9; 95.4)	96.8 (93.8; 98.4)	92.8 (88.9; 95.4)				
		AR(1)												
		ARH(1)	90.4 (86.1; 93.5)	90.4 (86.1; 93.5)	94.8 (91.3; 96.9)	93.6 (89.9; 96.0)	95.2 (91.8; 97.2)	94.8 (91.3; 96.9)	96.0 (92.8; 97.8)	95.2 (91.8; 97.2)				
		TOEP												
		UN	88.8 (84.3; 92.1)	90.4 (86.1; 93.5)	94.0 (90.3; 96.3)	95.2 (91.8; 97.2)	94.8 (91.3; 96.9)	94.8 (91.3; 96.9)	96.0 (92.8; 97.8)	95.6 (92.3; 97.5)				
	TOEP	None	91.2 (87.0; 94.1)	92.0 (88.0; 94.8)	94.8 (91.3; 96.9)	96.0 (92.8; 97.8)	97.2 (94.3; 98.6)	96.0 (92.8; 97.8)	94.0 (90.3; 96.3)	95.2 (91.8; 97.2)				
		Int. only												
		VC												
		CS												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = VC$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	TOEP	CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												
	UN	None	92.0 (88.0; 94.8)	88.0 (83.4; 91.5)	95.6 (92.3; 97.5)	93.2 (89.4; 95.7)	96.4 (93.3; 98.1)	94.0 (90.3; 96.3)	96.0 (92.8; 97.8)	92.4 (88.4; 95.1)				
		Int. only												
		VC												
		CS												
		CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{VC}$													
		Σ	ARH(1)				TOEP				UN				
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	
True Modle	ω_i	Σ													
	VC	None	95.0 (90.4; 97.4)	93.7 (88.8; 96.6)	95.0 (90.4; 97.4)	95.0 (90.4; 97.4)					97.2 (94.3; 98.6)	94.8 (91.3; 96.9)	96.8 (93.8; 98.4)	95.6 (92.3; 97.5)	
		Int. only	96.0 (92.8; 97.8)	97.6 (94.9; 98.9)	96.8 (93.8; 98.4)	97.6 (94.9; 98.9)					96.0 (92.8; 97.8)	97.6 (94.9; 98.9)	96.8 (93.8; 98.4)	97.6 (94.9; 98.9)	
		VC	94.0 (90.3; 96.3)	96.0 (92.8; 97.8)	96.8 (93.8; 98.4)	94.8 (91.3; 96.9)					94.8 (91.3; 96.9)	96.0 (92.8; 97.8)	96.4 (93.3; 98.1)	94.4 (90.8; 96.6)	
		CS	96.0 (92.8; 97.8)	96.8 (93.8; 98.4)	92.4 (88.4; 95.1)	94.8 (91.3; 96.9)					95.6 (92.3; 97.5)	96.8 (93.8; 98.4)	92.8 (88.9; 95.4)	95.2 (91.8; 97.2)	
		CSH	95.6 (92.3; 97.5)	96.0 (92.8; 97.8)	95.6 (92.6; 97.5)	96.0 (92.6; 97.8)					95.6 (92.3; 97.5)	96.0 (92.8; 97.8)	95.6 (92.3; 97.5)	96.0 (92.8; 97.8)	
		AR(1)													
		ARH(1)	94.8 (91.3; 96.9)	95.6 (92.3; 97.5)	95.2 (91.8; 97.2)	94.8 (91.3; 96.9)					94.8 (91.3; 96.9)	95.6 (92.3; 97.5)	95.2 (91.8; 97.2)	94.8 (91.3; 96.9)	
		TOEP													
		UN	93.2 (89.4; 95.7)	96.4 (93.3; 98.1)	94.0 (90.3; 96.3)	96.0 (92.8; 97.8)					93.2 (89.4; 95.7)	96.4 (93.3; 98.1)	94.0 (90.3; 96.3)	96.0 (92.8; 97.8)	
		CS	None	95.1 (91.7; 97.2)	95.1 (91.7; 97.2)	95.5 (92.2; 97.5)	95.9 (92.7; 97.8)					95.2 (91.8; 97.2)	94.8 (91.3; 96.9)	95.6 (92.3; 97.5)	95.2 (91.8; 97.2)
		Int. only													
		VC													
		CS													
		CSH	96.4 (93.3; 98.1)	95.2 (91.8; 97.2)	95.2 (91.8; 97.2)	94.8 (91.3; 96.9)					96.4 (93.3; 98.1)	95.2 (91.8; 97.2)	94.4 (90.8; 96.6)	94.4 (90.8; 96.6)	
		AR(1)													

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = VC$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	CS	ARH(1)												
		TOEP												
		UN												
	CSH	None	97.2 (94.3; 98.6)	94.4 (90.8; 96.6)	96.4 (93.3; 98.1)	96.0 (92.8; 97.8)					96.8 (93.8; 98.4)	94.4 (90.8; 96.8)	96.4 (93.3; 98.1)	95.2 (91.8; 97.2)
		Int. only												
		VC												
		CS												
		CSH	95.2 (91.8; 97.2)	93.6 (89.8; 96.0)	93.6 (89.8; 96.0)	92.8 (88.9; 95.4)					94.8 (91.3; 96.9)	93.6 (89.9; 96.0)	94.0 (90.3; 96.3)	92.0 (88.0; 94.8)
		AR(1)												
		ARH(1)	94.0 (90.3; 96.3)	93.6 (89.9; 96.0)	93.6 (89.9; 96.0)	94.4 (90.8; 96.6)					94.0 (90.3; 96.3)	93.6 (89.9; 96.0)	93.6 (89.9; 96.0)	94.0 (90.3; 96.3)
		TOEP												
		UN	96.0 (92.8; 97.8)	92.8 (88.9; 95.4)	95.2 (91.8; 97.2)	93.6 (89.9; 96.0)					96.0 (92.8; 97.8)	92.8 (88.9; 95.4)	95.2 (91.8; 97.2)	93.6 (89.9; 96.0)
	AR(1)	None	95.6 (92.3; 97.5)	94.0 (90.3; 96.3)	95.2 (91.8; 97.2)	94.4 (90.8; 96.6)					95.6 (92.3; 97.5)	95.2 (91.8; 97.2)	95.6 (92.3; 97.5)	95.6 (92.3; 97.5)
		Int. only	98.8 (96.5; 99.6)	97.6 (94.8; 98.9)	97.2 (94.3; 98.6)	96.8 (93.8; 98.4)					98.8 (96.5; 99.6)	97.6 (94.9; 98.9)	97.2 (94.3; 98.6)	96.8 (93.8; 98.4)
		VC	96.8 (93.8; 98.4)	96.4 (93.3; 98.1)	95.6 (92.3; 97.5)	97.6 (94.9; 98.9)					96.8 (93.8; 98.4)	96.4 (93.3; 98.1)	95.2 (91.8; 97.2)	97.6 (94.9; 98.9)
		CS												
		CSH	96.8 (93.8; 98.4)	95.2 (91.8; 97.2)	96.4 (93.3; 98.1)	96.4 (93.3; 98.1)					96.8 (93.8; 98.4)	95.2 (91.8; 97.2)	96.4 (93.3; 98.1)	96.4 (93.3; 98.1)

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = VC$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	AR(1)	AR(1)												
		ARH(1)	96.4 (93.3; 98.1)	96.4 (93.3; 98.1)	97.2 (94.3; 98.6)	95.6 (92.3; 97.5)					96.4 (93.3; 98.1)	96.0 (92.8; 97.8)	97.2 (94.3; 98.6)	95.6 (92.3; 97.5)
		TOEP												
		UN	96.8 (93.8; 98.4)	95.2 (91.8; 97.2)	98.8 (96.5; 99.6)	96.8 (93.8; 98.4)					96.8 (93.8; 98.4)	95.2 (91.8; 97.2)	98.8 (96.5; 99.6)	96.8 (93.8; 98.4)
	ARH(1)	None	93.4 (89.7; 96.0)	94.7 (91.2; 96.9)	96.3 (93.2; 98.1)	96.7 (93.7; 98.3)					94.0 (90.3; 96.3)	94.8 (91.3; 96.9)	96.4 (93.3; 98.1)	96.8 (93.8; 98.4)
		Int. only												
		VC	95.2 (91.8; 97.2)	96.0 (92.8; 97.8)	95.6 (92.3; 97.5)	96.0 (92.8; 97.8)					95.2 (91.8; 97.2)	96.0 (92.8; 97.8)	95.6 (92.3; 97.5)	96.4 (93.3; 98.1)
		CS												
		CSH	96.0 (92.8; 97.8)	92.8 (88.9; 95.4)	96.8 (93.8; 98.4)	92.8 (88.9; 95.4)					96.0 (92.8; 97.8)	92.8 (88.9; 95.4)	96.8 (93.8; 98.4)	92.8 (88.9; 95.4)
		AR(1)												
		ARH(1)	95.2 (91.8; 97.2)	94.8 (91.3; 96.9)	96.0 (92.8; 97.8)	95.2 (91.8; 97.2)					95.2 (91.8; 97.2)	94.8 (91.3; 96.9)	96.0 (92.8; 97.8)	95.2 (91.8; 97.2)
		TOEP												
		UN	94.8 (91.3; 96.9)	94.8 (91.3; 96.9)	96.0 (92.8; 97.8)	95.6 (92.3; 97.5)					94.8 (91.3; 96.9)	94.8 (91.3; 96.9)	96.0 (92.8; 97.8)	95.6 (92.3; 97.5)
	TOEP	None	97.2 (94.3; 98.6)	96.0 (92.8; 97.8)	94.0 (90.3; 96.3)	95.2 (91.8; 97.2)					96.8 (93.8; 98.4)	96.0 (92.8; 97.8)	94.0 (90.3; 96.3)	95.2 (91.8; 97.2)
		Int. only												
		VC												
		CS												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = VC$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	TOEP	CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												
	UN	None	96.4 (93.3; 98.1)	94.0 (90.3; 96.3)	96.0 (92.8; 97.8)	92.4 (88.4; 95.1)					96.4 (93.3; 98.1)	94.0 (90.3; 96.3)	96.0 (92.8; 97.8)	92.4 (88.4; 95.1)
		Int. only												
		VC												
		CS												
		CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CS}$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	VC	None	95.6 (92.3; 97.5)	92.4 (88.4; 95.1)	96.0 (92.8; 97.8)	94.4 (90.8; 96.6)								
		Int. only	97.2 (94.3; 98.6)	97.6 (94.9; 98.9)	96.4 (93.3; 98.1)	96.8 (93.8; 98.4)								
		VC	94.4 (90.8; 96.6)	96.0 (92.8; 97.8)	94.8 (91.3; 96.9)	93.2 (89.4; 95.7)								
		CS	97.2 (94.3; 98.6)	98.4 (96.0; 19.4)	90.4 (86.1; 93.5)	92.4 (88.4; 95.1)								
		CSH	94.8 (91.0; 96.9)	94.4 (90.8; 96.6)	93.6 (89.9; 96.0)	93.6 (89.9; 96.0)								
		AR(1)												
		ARH(1)	93.6 (89.9; 96.0)	94.8 (91.3; 96.9)	90.0 (85.7; 93.1)	90.8 (86.6; 93.8)								
		TOEP												
		UN	91.6 (87.5; 94.4)	95.6 (92.3; 97.5)	90.8 (86.6; 93.8)	93.6 (89.9; 96.0)								
		CS	95.2 (91.8; 97.2)	94.8 (91.3; 96.9)	94.4 (90.8; 96.6)	93.6 (89.9; 96.0)								
		Int. only												
		VC												
		CS												
		CSH	94.8 (91.3; 96.9)	93.2 (89.4; 95.7)	92.0 (88.0; 94.8)	92.4 (88.4; 95.1)								
		AR(1)												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CS}$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	CS	ARH(1)												
		TOEP												
		UN												
	CSH	None	94.4 (90.8; 96.6)	93.6 (89.9; 96.0)	96.0 (92.8; 97.8)	94.8 (91.3; 96.9)								
		Int. only												
		VC												
		CS												
		CSH	93.6 (89.9; 96.0)	92.8 (88.9; 95.4)	89.2 (84.7; 92.5)	88.8 (84.3; 92.1)								
		AR(1)												
		ARH(1)	93.6 (89.9; 96.0)	92.4 (88.4; 95.1)	88.4 (83.8; 91.8)	90.0 (85.7; 93.1)								
		TOEP												
		UN	93.6 (89.9; 96.0)	91.6 (87.5; 94.4)	92.4 (88.4; 95.1)	89.6 (85.2; 92.8)								
	AR(1)	None	90.8 (86.6; 93.8)	88.4 (83.8; 91.8)	86.0 (81.2; 89.8)	86.0 (81.2; 89.8)								
		Int. only	97.2 (94.3; 98.6)	96.4 (93.3; 98.1)	96.8 (93.8; 98.4)	96.4 (93.3; 98.1)								
		VC	96.8 (93.8; 98.4)	96.0 (92.8; 97.8)	94.8 (91.3; 96.9)	96.4 (93.3; 98.1)								
		CS												
		CSH	94.8 (91.3; 96.9)	94.4 (90.8; 96.6)	92.8 (88.9; 95.4)	90.4 (86.1; 93.5)								

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CS}$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	AR(1)	AR(1)												
		ARH(1)	96.0 (92.8; 97.8)	95.2 (91.8; 97.2)	93.6 (89.9; 96.0)	92.4 (88.4; 95.1)								
		TOEP												
		UN	95.2 (91.8; 97.2)	93.6 (89.8; 96.0)	94.0 (90.3; 96.3)	93.2 (89.4; 95.7)								
	ARH(1)	None	87.2 (82.5; 90.8)	89.6 (85.2; 92.8)	86.0 (81.2; 89.8)	90.0 (85.7; 93.1)								
		Int. only												
		VC	94.4 (90.8; 96.6)	95.2 (91.8; 97.2)	93.2 (89.4; 95.7)	94.4 (90.8; 96.6)								
		CS												
		CSH	92.8 (88.9; 95.4)	90.4 (86.1; 93.5)	93.6 (89.9; 96.0)	88.0 (83.4; 91.5)								
		AR(1)												
		ARH(1)	92.8 (88.9; 95.4)	92.8 (88.9; 95.4)	91.2 (87.0; 94.1)	91.2 (87.0; 94.1)								
		TOEP												
		UN	93.6 (89.9; 96.0)	92.4 (88.4; 95.1)	90.8 (86.6; 93.8)	91.6 (87.5; 94.4)								
	TOEP	None	93.2 (89.4; 95.7)	93.6 (89.9; 96.0)	91.6 (87.5; 94.4)	92.4 (88.4; 95.1)								
		Int. only												
		VC												
		CS												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CS}$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	TOEP	CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												
	UN	None	94.4 (90.8; 96.6)	92.0 (88.0; 94.8)	94.4 (90.8; 96.6)	88.0 (83.4; 91.5)								
		Int. only												
		VC												
		CS												
		CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CS}$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	VC	None					100.0 (85.7; 100.0)	95.7 (79.0; 100.0)	100.0 (85.7; 100.0)	100.0 (85.7; 100.0)				
		Int. only					96.9 (89.5; 99.2)	100.0 (94.4; 100.0)	95.4 (87.3; 98.4)	100.0 (94.4; 100.0)				
		VC					90.9 (83.6; 95.1)	95.0 (88.7; 97.8)	96.0 (90.1; 98.4)	93.9 (87.4; 97.2)				
		CS					98.2 (93.8; 99.5)	96.5 (91.3; 98.6)	96.5 (91.3; 98.6)	97.4 (92.6; 99.1)				
		CSH					96.9 (92.3; 98.8)	98.4 (94.5; 99.6)	96.9 (92.3; 98.8)	98.4 (94.5; 99.6)				
		AR(1)												
		ARH(1)					94.7 (89.5; 97.4)	96.2 (91.5; 98.4)	96.2 (91.5; 98.4)	94.7 (89.5; 97.4)				
		TOEP												
		UN					92.4 (86.1; 95.9)	96.6 (91.6; 98.7)	94.1 (88.3; 97.1)	95.8 (90.5; 98.2)				
		CS	None											
		Int. only												
		VC												
		CS												
		CSH						97.8 (93.7; 99.2)	95.6 (90.6; 98.0)	96.3 (91.6; 98.4)	95.6 (90.6; 98.0)			
	AR(1)													

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CS}$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	CS	ARH(1)												
		TOEP												
		UN												
	CSH	None					100.0 (92.13; 100.0)	100.0 (92.13; 100.0)	100.0 (92.13; 100.0)	100.0 (92.13; 100.0)				
		Int. only												
		VC												
		CS												
		CSH					95.0 (90.4; 97.4)	92.5 (87.3; 95.6)	95.6 (91.2; 97.9)	92.5 (87.3; 95.6)				
		AR(1)												
		ARH(1)					93.9 (89.2; 96.7)	92.1 (87.0; 95.3)	95.2 (90.7; 97.5)	93.9 (89.2; 96.9)				
		TOEP												
		UN					97.5 (93.8; 99.0)	90.6 (85.1; 94.2)	96.3 (92.1; 98.3)	93.1 (88.1; 96.1)				
	AR(1)	None					95.1 (90.2; 97.6)	93.7 (88.5; 96.7)	95.8 (91.2; 98.1)	93.7 (88.5; 96.7)				
		Int. only					96.1 (86.8; 98.9)	96.1 (86.8; 98.9)	96.1 (86.8; 98.9)	96.1 (86.8; 98.9)				
		VC					97.1 (90.0; 99.2)	97.1 (90.0; 99.2)	98.6 (92.2; 99.7)	97.1 (90.0; 99.2)				
		CS												
		CSH					96.7 (94.0; 99.3)	95.0 (92.9; 98.5)	95.5 (91.4; 97.7)	95.5 (91.4; 97.7)				

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CS}$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	AR(1)	AR(1)												
		ARH(1)					97.0 (93.2; 98.7)	97.0 (93.2; 98.7)	97.6 (94.0; 99.1)	97.0 (93.2; 98.7)				
		TOEP												
		UN					96.5 (92.5; 98.4)	94.7 (90.2; 97.2)	98.8 (95.8; 99.7)	97.0 (93.3; 98.7)				
	ARH(1)	None					91.9 (85.8; 95.6)	93.5 (87.8; 96.7)	94.4 (88.8; 97.2)	93.5 (87.8; 96.7)				
		Int. only												
		VC					97.7 (91.9; 99.4)	100.0 (95.7; 100.0)	98.8 (93.7; 99.8)	97.7 (91.9; 99.4)				
		CS												
		CSH					94.3 (89.2; 97.1)	93.6 (88.3; 96.6)	95.7 (91.0; 98.0)	95.0 (90.1; 97.6)				
		AR(1)												
		ARH(1)					94.4 (89.4; 97.1)	94.4 (89.4; 97.1)	95.8 (91.2; 98.1)	95.8 (91.2; 98.1)				
		TOEP												
		UN					95.0 (90.0; 97.6)	93.6 (88.2; 96.6)	96.4 (91.9; 98.5)	95.7 (91.0; 98.0)				
	TOEP	None					97.5 (92.8; 99.1)	97.5 (92.8; 99.1)	95.8 (90.5; 98.2)	95.8 (90.5; 98.2)				
		Int. only												
		VC												
	CS													

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CS}$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	TOEP	CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												
	UN	None					96.4 (91.9; 98.5)	95.0 (90.0; 97.5)	97.1 (92.8; 98.9)	94.2 (89.1; 97.1)				
		Int. only												
		VC												
		CS												
		CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CS}$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	VC	None					98.6 (95.0; 99.6)	95.7 (91.0; 98.0)	97.9 (93.9; 99.3)	97.2 (92.9; 98.9)				
		Int. only					96.8 (93.2; 98.5)	97.9 (94.6; 99.2)	96.8 (93.2; 98.5)	97.9 (94.6; 99.2)				
		VC					93.4 (88.9; 96.2)	96.7 (93.0; 98.5)	95.6 (91.6; 97.8)	96.2 (92.3; 98.1)				
		CS					97.1 (92.7; 98.9)	97.1 (92.7; 98.9)	94.2 (88.9; 97.0)	96.4 (91.7; 98.4)				
		CSH					97.3 (94.3; 98.7)	97.3 (94.3; 98.8)	96.9 (93.7; 98.5)	97.3 (94.3; 98.8)				
		AR(1)												
		ARH(1)					94.6 (90.8; 96.9)	96.4 (93.0; 98.2)	95.0 (91.3; 97.2)	95.0 (91.3; 97.2)				
		TOEP												
		UN					93.0 (88.9; 95.6)	96.5 (93.2; 98.2)	94.7 (91.0; 97.0)	95.6 (92.1; 97.6)				
	CS	None					96.3 (92.6; 98.2)	95.8 (91.9; 97.8)	96.8 (93.3; 98.5)	95.8 (91.9; 97.8)				
		Int. only												
		VC												
		CS												
		CSH					96.9 (93.7; 98.5)	96.0 (92.6; 97.9)	95.1 (91.5; 97.3)	94.7 (90.9; 96.9)				
	AR(1)													

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CS}$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	CS	ARH(1)												
		TOEP												
		UN												
	CSH	None					99.0 (96.3; 99.7)	96.9 (93.4; 98.6)	96.9 (93.4; 98.6)	95.4 (91.4; 97.5)				
		Int. only												
		VC												
		CS												
		CSH					94.8 (91.1; 97.0)	93.5 (89.6; 96.0)	94.8 (91.1; 97.0)	92.6 (88.5; 95.4)				
		AR(1)												
		ARH(1)					93.5 (89.6; 96.0)	93.9 (90.1; 96.4)	93.5 (89.6; 96.0)	94.8 (91.1; 97.0)				
		TOEP												
		UN					96.0 (92.6; 97.9)	93.8 (89.9; 96.3)	95.6 (92.1; 97.6)	95.2 (91.5; 97.3)				
	AR(1)	None					95.6 (92.2; 97.5)	95.2 (91.7; 97.2)	95.6 (92.2; 97.5)	95.6 (92.2; 97.5)				
		Int. only					98.4 (95.5; 99.5)	97.9 (94.8; 99.2)	96.9 (93.4; 98.6)	96.9 (93.4; 98.6)				
		VC					97.4 (93.5; 99.0)	98.0 (94.4; 99.3)	96.1 (91.7; 98.2)	98.7 (95.4; 99.6)				
		CS												
		CSH					97.0 (93.9; 98.5)	96.6 (93.4; 98.3)	96.1 (92.8; 98.0)	96.6 (93.4; 98.3)				

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CS}$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	AR(1)	AR(1)												
		ARH(1)					97.3 (94.3; 98.8)	97.3 (94.3; 98.8)	97.3 (94.3; 98.8)	96.0 (92.6; 97.9)				
		TOEP												
		UN					97.0 (93.9; 93.9)	95.7 (92.3; 97.7)	99.1 (96.9; 99.76)	96.6 (93.4; 98.3)				
	ARH(1)	None					94.0 (90.3; 96.3)	94.8 (91.3; 96.9)	96.4 (93.3; 98.1)	96.8 (943.8; 98.4)				
		Int. only												
		VC					96.3 (92.3; 98.3)	97.6 (93.9; 99.1)	96.3 (92.3; 98.3)	96.3 (92.3; 98.3)				
		CS												
		CSH					96.1 (92.7; 97.9)	92.2 (88.0; 95.0)	96.5 (93.3; 98.2)	92.6 (88.5; 95.3)				
		AR(1)												
		ARH(1)					95.6 (92.1; 97.6)	95.6 (92.1; 97.6)	95.6 (92.1; 97.6)	95.2 (91.5; 97.3)				
		TOEP												
		UN					95.2 (91.6; 97.3)	94.3 (90.6; 96.7)	96.1 (92.7; 97.9)	95.7 (92.2; 97.6)				
	TOEP	None					97.1 (94.1; 98.6)	96.3 (93.0; 98.0)	94.2 (90.5; 96.5)	95.0 (91.5; 97.1)				
		Int. only												
		VC												
		CS												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CS}$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	TOEP	CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												
	UN	None					96.9 (93.8; 98.5)	95.2 (91.6; 97.3)	96.1 (92.7; 97.9)	92.6 (88.4; 95.3)				
		Int. only												
		VC												
		CS												
		CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CSH}$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	VC	None	95.2 (91.8; 97.2)	92.4 (88.4; 95.1)	96.0 (92.8; 97.8)	93.6 (89.9; 96.0)								
		Int. only	95.6 (92.3; 97.5)	96.4 (93.3; 98.1)	94.8 (91.3; 96.9)	95.2 (91.8; 97.2)								
		VC	94.4 (90.8; 96.6)	95.2 (90.8; 97.2)	96.0 (92.8; 97.8)	94.8 (91.3; 96.9)								
		CS	95.2 (91.8; 97.2)	95.2 (91.8; 97.2)	90.0 (85.7; 93.1)	93.6 (89.9; 96.0)								
		CSH	92.4 (88.4; 95.1)	94.4 (90.8; 96.6)	93.2 (89.4; 95.7)	93.6 (89.9; 96.0)								
		AR(1)												
		ARH(1)	93.6 (89.9; 96.0)	92.0 (88.0; 94.8)	92.0 (88.0; 94.8)	91.2 (87.0; 94.1)								
		TOEP												
		UN	90.0 (85.7; 93.1)	94.0 (90.3; 96.3)	90.4 (86.1; 93.5)	93.6 (89.9; 96.0)								
		CS	95.2 91.8; 97.2)	94.4 (90.8; 96.6)	94.0 (90.3; 96.3)	93.6 (89.9; 96.0)								
		Int. only												
		VC												
		CS												
		CSH	94.8 (91.3; 96.9)	92.4 (88.4; 95.1)	91.6 (87.5; 94.4)	91.6 (87.5; 94.4)								
		AR(1)												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CSH}$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	CS	ARH(1)												
		TOEP												
		UN												
	CSH	None	94.4 (90.8; 96.6)	93.6 (89.9; 96.0)	94.8 (91.3; 96.9)	94.0 (90.3; 96.3)								
		Int. only												
		VC												
		CS												
		CSH	93.2 (89.4; 95.7)	93.2 (89.4; 95.7)	90.0 (85.7; 93.1)	88.8 (84.3; 92.1)								
		AR(1)												
		ARH(1)	94.0 (90.3; 96.3)	94.8 (91.3; 96.9)	88.4 (83.8; 91.8)	90.8 (86.6; 93.8)								
		TOEP												
		UN	92.4 (88.4; 95.1)	92.8 (88.9; 95.4)	93.2 (89.4; 95.7)	90.8 (86.6; 93.8)								
	AR(1)	None	92.0 (88.0; 94.8)	87.6 (82.9; 91.1)	87.2 (82.5; 90.8)	86.4 (81.6; 90.1)								
		Int. only	97.6 (94.9; 98.9)	96.8 (93.8; 98.4)	96.4 (93.3; 98.1)	96.4 (93.3; 98.1)								
		VC	96.0 (92.8; 97.8)	96.4 (93.3; 98.1)	94.8 (91.3; 96.9)	96.0 (92.8; 97.8)								
		CS												
		CSH	94.8 (91.3; 96.9)	94.4 (90.8; 96.6)	93.6 (89.9; 96.0)	92.0 (88.0; 94.8)								

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CSH}$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	AR(1)	AR(1)												
		ARH(1)	94.8 (91.3; 96.9)	95.2 (91.8; 97.2)	92.8 (88.9; 95.4)	93.6 (89.9; 96.0)								
		TOEP												
		UN	94.0 (90.3; 96.3)	93.2 (89.4; 95.7)	93.6 (89.9; 96.0)	92.8 (88.9; 95.4)								
	ARH(1)	None	87.6 (82.9; 91.1)	89.2 (84.7; 92.5)	86.4 (81.6; 90.0)	90.4 (86.1; 93.5)								
		Int. only												
		VC	94.4 (90.8; 96.6)	94.8 (91.3; 96.9)	93.2 (89.4; 95.7)	94.0 (90.3; 96.3)								
		CS												
		CSH	93.6 (89.9; 96.0)	92.0 (88.0; 94.8)	93.6 (89.9; 96.0)	90.0 (85.7; 93.1)								
		AR(1)												
		ARH(1)	94.4 (90.8; 96.6)	94.4 (90.8; 96.6)	91.6 (87.5; 94.4)	92.4 (88.4; 95.1)								
		TOEP												
		UN	93.6 (89.9; 96.0)	95.2 (91.8; 97.2)	92.0 (88.0; 94.8)	94.0 (90.3; 96.3)								
	TOEP	None	94.8 (91.3; 96.9)	94.0 (90.3; 96.3)	90.4 (86.1; 93.5)	93.6 (89.9; 96.0)								
		Int. only												
		VC												
		CS												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CSH}$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	TOEP	CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												
	UN	None	96.0 (92.8; 97.8)	94.0 (90.3; 96.3)	94.4 (90.8; 96.6)	88.0 (83.4; 91.5)								
		Int. only												
		VC												
		CS												
		CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CSH}$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	VC	None					91.4 (83.9; 95.6)	92.5 (85.3; 96.3)	94.6 (88.0; 97.7)	92.5 (85.3; 96.3)				
		Int. only					94.1 (89.1; 96.9)	96.1 (91.7; 98.2)	94.1 (89.1; 96.9)	90.8 (85.1; 94.4)				
		VC					94.3 (89.6; 97.0)	94.3 (89.6; 97.0)	95.6 (91.2; 97.9)	93.1 (88.0; 96.1)				
		CS					94.0 (89.0; 96.8)	94.7 (89.8; 97.3)	92.0 (86.5; 95.4)	94.7 (89.8; 97.3)				
		CSH					94.6 (89.2; 97.4)	94.6 (89.2; 97.4)	93.0 (87.3; 96.3)	92.2 (86.3; 95.7)				
		AR(1)												
		ARH(1)					94.5 (89.1; 97.3)	93.0 (87.2; 96.3)	93.0 (87.2; 96.3)	92.2 (86.2; 95.7)				
		TOEP												
		UN					89.3 (83.4; 93.3)	92.7 (87.4; 95.9)	92.7 (87.4; 95.9)	94.7 (89.8; 97.3)				
	CS	None					93.7 (88.7; 96.5)	89.9 (84.2; 93.8)	93.0 (88.0; 96.1)	88.6 (82.7; 92.7)				
		Int. only												
		VC												
		CS												
		CSH					94.2 (89.0; 97.0)	93.5 (88.1; 96.5)	91.3 (85.4; 95.0)	92.0 (86.3; 95.5)				
	AR(1)													

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CSH}$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	CS	ARH(1)												
		TOEP												
		UN												
	CSH	None					93.3 (88.5; 96.2)	89.7 (84.1; 93.5)	96.4 (92.3; 98.3)	91.5 (86.3; 94.9)				
		Int. only												
		VC												
		CS												
		CSH					96.0 (90.9; 98.3)	91.9 (85.8; 95.6)	92.7 (86.8; 96.1)	88.7 (81.9; 93.2)				
		AR(1)												
		ARH(1)					96.3 (91.6; 98.4)	95.5 (90.6; 97.9)	94.0 (88.7; 96.9)	96.3 (91.6; 98.4)				
		TOEP												
		UN					89.9 (83.5; 94.0)	93.8 (88.2; 96.8)	93.0 (87.3; 96.3)	96.1 (91.3; 98.3)				
	AR(1)	None					96.9 (89.5; 99.2)	86.2 (75.7; 92.5)	90.8 (81.3; 95.7)	89.2 (79.4; 94.7)				
		Int. only					97.5 (93.6; 99.0)	96.2 (91.9; 98.2)	94.9 (90.3; 97.4)	93.0 (87.9; 96.0)				
		VC					94.6 (90.0; 97.1)	92.2 (87.1; 95.4)	94.0 (89.3; 96.7)	94.0 (89.3; 96.7)				
		CS												
		CSH					96.0 (91.1; 98.3)	92.1 (86.0; 95.6)	96.0 (91.1; 98.3)	93.7 (88.0; 96.8)				

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CSH}$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	AR(1)	AR(1)												
		ARH(1)					96.6 (91.5; 98.7)	94.9 (89.3; 97.6)	96.6 (91.5; 98.7)	94.9 (89.3; 97.6)				
		TOEP												
		UN					96.9 (92.2; 98.8)	95.3 (90.2; 97.8)	96.1 (91.2; 98.3)	96.1 (91.2; 98.3)				
	ARH(1)	None					95.2 (88.3; 98.1)	91.6 (83.6; 95.9)	95.2 (88.3; 98.1)	92.8 (85.1; 96.7)				
		Int. only												
		VC					92.5 (86.7; 95.9)	94.0 (88.6; 96.9)	96.2 (91.5; 98.4)	95.5 (90.5; 97.9)				
		CS												
		CSH					91.5 (85.1; 95.3)	92.4 (86.1; 95.9)	95.8 (90.5; 98.2)	95.8 (90.5; 98.2)				
		AR(1)												
		ARH(1)					98.0 (92.7; 99.4)	100.0 (96.2; 100.0)	98.0 (92.7; 100.8)	98.0 (92.7; 100.8)				
		TOEP												
		UN					95.1 (89.0; 97.9)	97.1 (91.7; 99.0)	96.1 (90.4; 98.5)	94.1 (87.8; 97.3)				
	TOEP	None					96.6 (91.5; 98.7)	95.7 (90.3; 98.2)	91.4 (84.9; 95.3)	92.2 (85.9; 95.9)				
		Int. only												
		VC												
		CS												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CSH}$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	TOEP	CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												
	UN	None					95.8 (90.6; 98.2)	91.7 (85.3; 95.4)	96.7 (91.7; 98.7)	95.0 (89.5; 97.7)				
		Int. only												
		VC												
		CS												
		CSH												
		AR(1)												
		ARH(1)												
		TOEP												
	UN													

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CSH}$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	VC	None	91.4 (83.9; 95.6)	92.5 (85.3; 96.3)	94.6 (88.0; 97.7)	92.5 (85.3; 96.3)					96.3 (92.1; 98.3)	94.4 (89.7; 97.0)	96.3 (92.1; 98.3)	94.4 (89.7; 97.0)
		Int. only	94.7 (90.0; 97.3)	96.1 (91.7; 98.2)	96.1 (91.7; 98.2)	90.8 (85.1; 94.4)					95.8 (91.6; 97.9)	96.4 (92.3; 98.3)	94.6 (90.0; 97.1)	90.4 (84.9; 94.0)
		VC	94.2 (89.4; 96.9)	94.2 (89.4; 96.9)	95.5 (91.0; 97.8)	92.9 (87.8; 96.0)					93.4 (88.6; 96.3)	92.2 (87.1; 95.4)	95.2 (90.8; 97.6)	93.4 (88.6; 96.3)
		CS	94.0 (88.9; 96.8)	95.3 (90.6; 97.7)	91.9 (86.5; 95.3)	94.6 (89.8; 97.3)					95.5 (91.0; 97.8)	94.8 (90.2; 97.4)	92.3 (87.0; 95.5)	92.3 (87.0; 95.5)
		CSH	92.1 (86.1; 95.7)	93.7 (88.1; 96.8)	92.3 (86.1; 95.7)	92.1 (86.1; 95.7)					95.0 (90.0; 97.6)	94.3 (89.1; 97.1)	94.3 (89.1; 97.1)	91.4 (85.6; 95.0)
		AR(1)												
		ARH(1)	94.4 (88.9; 97.3)	93.7 (88.0; 96.8)	92.9 (87.0; 96.2)	92.1 (86.0; 95.6)					94.2 (89.1; 97.1)	92.8 (87.3; 96.1)	95.7 (90.1; 98.0)	95.0 (90.0; 97.5)
		TOEP												
		UN	89.3 (83.4; 93.3)	92.7 (87.4; 95.9)	92.7 (83.4; 95.9)	94.7 (89.8; 97.3)					92.2 (86.9; 95.5)	91.6 (86.1; 95.0)	94.2 (89.3; 96.9)	96.1 (91.8; 98.2)
		CS	93.7 (88.7; 96.5)	89.9 (84.2; 93.7)	93.0 (88.0; 96.1)	88.6 (82.7; 92.7)					95.8 (91.5; 97.9)	90.9 (85.5; 94.4)	95.8 (91.5; 97.9)	90.3 (84.8; 93.9)
		Int. only												
		VC												
		CS												
		CSH	94.9 (89.9; 97.5)	93.5 (88.1; 96.5)	92.8 (87.2; 96.0)	92.0 (86.3; 95.5)					93.5 (88.4; 96.4)	92.8 (87.6; 95.9)	90.8 (85.2; 94.5)	92.2 (86.8; 95.5)
		AR(1)												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CSH}$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	CS	ARH(1)												
		TOEP												
		UN												
	CSH	None	93.5 (88.7; 96.3)	89.9 (84.4; 93.6)	96.4 (92.4; 98.4)	91.7 (86.5; 95.0)					95.3 (91.2; 97.5)	93.2 (88.7; 96.0)	95.3 (91.2; 97.5)	92.1 (87.4; 95.2)
		Int. only												
		VC												
		CS												
		CSH	96.0 (91.0; 98.3)	92.8 (86.9; 96.2)	92.8 (86.9; 96.2)	89.6 (83.0; 93.8)					95.5 (90.4; 97.9)	93.9 (88.5; 96.9)	95.5 (90.4; 97.9)	93.2 (87.6; 96.4)
		AR(1)												
		ARH(1)	96.2 (91.5; 98.4)	95.5 (90.5; 97.9)	94.0 (88.6; 96.9)	96.2 (91.5; 98.4)					95.0 (90.0; 97.6)	94.3 (89.1; 97.1)	95.0 (90.0; 97.6)	96.4 (91.9; 98.5)
		TOEP												
		UN	90.2 (83.8; 91.2)	93.9 (88.5; 96.9)	93.2 (87.6; 96.4)	96.2 (91.4; 98.4)					93.7 (88.8; 96.6)	96.2 (92.0; 98.3)	96.9 (92.9; 98.7)	98.1 (94.6; 99.4)
	AR(1)	None	96.9 (89.3; 99.1)	85.9 (75.4; 92.4)	90.6 (81.0; 95.6)	89.1 (79.1; 94.6)					96.1 (90.4; 98.5)	91.3 (84.2; 95.3)	94.2 (87.9; 97.3)	94.2 (87.9; 97.3)
		Intercept only	97.5 (93.7; 99.0)	96.8 (92.8; 98.6)	94.9 (90.3; 97.4)	93.0 (88.0; 96.1)					97.0 (93.3; 98.7)	96.4 (92.5; 98.4)	95.3 (90.9; 97.6)	93.5 (88.7; 96.3)
		VC	94.7 (90.3; 97.2)	91.8 (86.7; 95.0)	94.1 (89.5; 96.8)	94.1 (89.5; 96.8)					95.3 (90.9; 97.6)	94.1 (89.5; 96.8)	93.5 (88.7; 96.3)	94.7 (90.2; 97.2)
		CS												
		CSH	95.9 (90.8; 98.3)	92.7 (86.7; 96.1)	95.9 (90.8; 98.3)	94.3 (88.7; 97.2)					96.7 (91.7; 98.7)	95.0 (89.5; 97.7)	99.2 (95.4; 99.9)	96.7 (91.7; 98.7)

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CSH}$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	AR(1)	AR(1)												
		ARH(1)	95.9 (90.7; 98.2)	94.2 (88.5; 97.2)	96.7 (91.8; 98.7)	95.0 (89.6; 97.7)					94.8 (89.6; 97.5)	94.8 (89.6; 97.5)	95.5 (90.6; 97.9)	95.5 (90.6; 97.9)
		TOEP												
		UN	96.8 (92.1; 98.8)	95.2 (89.9; 97.8)	96.0 (91.0; 98.3)	96.0 (91.0; 98.3)					96.9 (92.2; 98.8)	95.3 (90.2; 97.8)	96.1 (91.2; 98.3)	93.0 (87.2 96.3)
	ARH(1)	None	95.0 (87.8; 98.0)	91.3 (83.0; 95.7)	95.0 (87.8; 98.0)	92.5 (84.6; 96.5)					94.6 (89.2; 97.4)	93.8 (88.2; 96.8)	95.3 (90.2; 97.9)	96.9 (92.3; 98.8)
		Int. only												
		VC	91.8 (85.9; 95.4)	93.3 (87.7; 96.4)	95.5 (90.6; 97.9)	94.8 (89.6; 97.5)					91.3 (85.7; 94.9)	91.3 (85.7; 94.9)	92.7 (87.4; 95.9)	93.3 (88.2; 96.3)
		CS												
		CSH	91.6 (85.2; 95.4)	92.4 (86.3; 96.0)	95.8 (90.5; 98.2)	95.8 (90.5; 98.2)					92.9 (86.7; 96.4)	93.8 (87.8; 97.0)	95.6 (90.0; 98.1)	94.7 (88.9; 97.5)
		AR(1)												
		ARH(1)	97.9 (92.8; 99.4)	100.0 (96.2; 100.0)	97.9 (92.8; 99.4)	97.9 (92.8; 99.4)					95.4 (89.7; 98.0)	98.2 (93.6; 99.5)	96.3 (90.9; 98.6)	98.2 (93.6; 99.5)
		TOEP												
		UN	94.2 (87.9; 97.3)	98.1 (93.2; 99.5)	95.1 (89.1; 97.9)	94.2 (87.9; 97.3)					92.5 (85.3; 96.3)	95.7 (89.5; 98.3)	92.5 (85.3; 96.3)	92.5 (85.3; 96.3)
	TOEP	None	96.6 (91.6; 98.7)	95.8 (90.5; 98.2)	91.5 (85.1; 95.3)	92.4 (86.1; 95.9)					97.1 (92.8; 98.9)	94.9 (89.9; 97.5)	94.9 (89.9; 97.5)	94.2 (89.0; 97.0)
		Int. only												
		VC												
		CS												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{CSH}$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	TOEP	CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												
	UN	None	95.8 (90.6; 98.2)	91.7 (85.3; 95.4)	96.7 (91.7; 98.7)	95.0 (89.5; 97.7)					95.3 (90.2; 97.9)	93.8 (88.2; 96.8)	96.9 (92.3; 98.8)	96.1 (91.3; 98.3)
		Int. only												
		VC												
		CS												
		CSH												
		AR(1)												
		ARH(1)												
		TOEP												
	UN													

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{AR}(1)$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	VC	None	94.8 (91.3; 96.9)	93.6 (89.9; 96.0)	95.2 (91.8; 97.2)	94.0 (90.3; 96.3)	94.8 (91.3; 96.9)	91.6 (87.5; 94.4)	94.4 (90.8; 96.6)	93.2 (89.4; 95.7)	94.8 (91.3; 96.9)	91.6 (87.5; 94.4)	94.4 (90.8; 96.6)	93.2 (89.4; 95.7)
		Int. only	98.8 (96.5; 99.6)	99.6 (97.8; 99.9)	100.0 (98.5; 100.0)	99.6 (97.8; 99.9)	96.4 (93.3; 98.1)	97.2 (94.3; 98.6)	95.2 (91.8; 97.2)	96.0 (92.8; 97.8)	96.0 (92.8; 97.8)	96.8 (93.8; 98.4)	95.6 (92.3; 97.5)	96.4 (93.3; 98.1)
		VC	98.8 (96.5; 99.6)	99.2 (97.1; 99.8)	99.6 (97.8; 99.9)	98.8 (96.5; 99.6)	95.6 (92.3; 97.5)	96.8 (93.8; 98.4)	96.0 (92.8; 97.8)	93.6 (89.9; 96.0)	94.4 (90.8; 96.6)	95.6 (92.3; 97.5)	96.0 (92.8; 97.8)	94.4 (90.8; 96.6)
		CS	99.6 (97.8; 99.9)	99.6 (97.8; 99.9)	99.2 (97.1; 99.8)	99.2 (97.1; 99.8)	96.8 (93.8; 98.4)	98.4 (96.0; 99.4)	91.6 (87.5; 94.4)	95.2 (91.8; 97.2)	96.0 (92.8; 97.8)	96.4 (93.3; 98.1)	92.4 (88.4; 95.1)	95.2 (91.8; 97.2)
		CSH	98.4 (96.0; 99.4)	97.6 (94.9; 98.9)	98.8 (96.5; 99.6)	99.6 (97.8; 99.9)	95.6 (92.3; 97.5)	95.6 (92.3; 97.5)	95.2 (91.8; 97.2)	95.2 (91.8; 97.2)	94.4 (90.8; 96.6)	95.2 (91.8; 97.2)	95.2 (91.8; 97.2)	95.6 (92.3; 97.5)
		AR(1)												
		ARH(1)	97.6 (94.9; 98.9)	98.0 (95.4; 99.1)	98.0 (95.4; 99.1)	98.4 (96.0; 99.4)	93.6 (89.9; 96.0)	94.0 (90.3; 96.3)	92.0 (88.0; 94.8)	93.2 (89.4; 95.7)	93.6 (89.9; 96.0)	92.0 (88.0; 94.8)	92.0 (88.0; 94.8)	93.6 (89.9; 96.0)
		TOEP												
		UN	98.4 (96.0; 99.4)	98.8 (96.5; 99.6)	98.4 (96.0; 99.4)	99.6 (97.8; 99.9)	93.6 (89.9; 96.0)	96.0 (92.8; 97.8)	93.6 (89.9; 96.0)	94.4 (90.8; 96.6)	92.0 (88.0; 94.8)	95.6 (92.3; 97.5)	93.6 (89.9; 96.0)	94.0 (90.3; 96.3)
		CS	98.8 (96.5; 99.6)	98.8 (96.5; 99.6)	99.2 (97.1; 99.8)	99.2 (97.1; 99.8)	94.4 (90.8; 96.6)	95.2 (91.8; 97.2)	94.8 (91.3; 96.9)	93.6 (89.9; 96.0)	94.0 (90.3; 96.3)	94.0 (90.3; 96.3)	94.8 (91.3; 96.9)	94.0 (90.3; 96.3)
		Int. only												
		VC												
		CS												
		CSH	98.8 (96.5; 99.6)	98.8 (96.5; 99.6)	98.0 (95.4; 99.1)	98.0 (95.4; 99.1)	96.0 (92.8; 97.8)	95.6 (92.3; 97.5)	93.6 (89.9; 96.0)	93.6 (89.9; 96.0)	95.2 (91.8; 97.2)	94.0 (90.3; 96.3)	93.6 (89.9; 96.0)	94.4 (90.8; 96.6)
		AR(1)												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{AR}(1)$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	CS	ARH(1)												
		TOEP												
		UN												
	CSH	None	98.8 (96.5; 99.6)	96.0 (92.8; 97.8)	100.0 (98.5; 100.0)	99.6 (97.8; 99.9)	95.6 (92.3; 97.5)	92.8 (88.9; 95.4)	95.6 (92.3; 97.5)	93.6 (89.9; 96.0)	95.2 (91.8; 97.2)	92.8 (88.9; 95.4)	96.0 (92.8; 97.8)	94.4 (90.8; 96.6)
		Int. only												
		VC												
		CS												
		CSH	95.6 (92.3; 97.5)	95.6 (92.3; 97.5)	97.2 (94.33; 98.6)	97.6 (94.9; 98.9)	94.4 (90.8; 96.6)	93.6 (89.9; 96.0)	93.2 (89.4; 95.7)	90.4 (86.1; 93.5)	93.2 (89.4; 95.7)	92.4 (88.4; 95.1)	93.2 (89.4; 95.7)	90.0 (85.7; 93.1)
		AR(1)												
		ARH(1)	96.4 (93.3; 98.1)	96.4 (93.3; 98.1)	98.0 (95.4; 99.1)	97.2 (94.3; 98.6)	94.8 (91.3; 96.9)	96.0 (92.8; 97.8)	92.4 (88.4; 95.1)	91.2 (87.0; 94.1)	92.4 (88.4; 95.1)	91.2 (87.0; 94.1)	92.8 (88.9; 95.4)	90.8 (86.6; 93.8)
		TOEP												
		UN	98.4 (96.0; 99.4)	96.8 (93.8; 98.4)	98.8 (96.5; 99.6)	98.0 (95.4; 99.1)	96.0 (92.8; 97.8)	94.8 (91.3; 96.9)	94.8 (93.3; 96.9)	92.4 (88.4; 95.1)	94.4 (90.8; 96.6)	92.4 (88.4; 95.1)	94.8 (91.3; 96.9)	92.8 (88.9; 95.4)
	AR(1)	None	96.0 (92.8; 97.8)	95.2 (91.8; 97.2)	93.6 (89.9; 96.0)	94.8 (91.3; 96.9)	95.2 (91.8; 97.2)	94.0 (90.3; 96.3)	93.2 (89.4; 95.7)	94.0 (90.3; 96.3)	94.8 (91.3; 96.9)	91.6 (87.5; 94.4)	92.8 (88.9; 95.4)	92.8 (88.9; 95.4)
		Int. only	99.6 (97.8; 99.9)	98.8 (96.5; 99.6)	100.0 (98.5; 100.0)	99.6 (97.8; 99.9)	98.0 (95.4; 99.1)	96.4 (93.3; 98.1)	96.4 (93.3; 98.1)	96.0 (92.8; 97.8)	97.2 (94.3; 98.6)	96.8 (93.8; 98.4)	96.4 (93.3; 98.1)	96.0 (92.8; 97.8)
		VC	99.6 (97.8; 99.9)	99.2 (97.1; 99.8)	99.6 (97.8; 99.9)	100.0 (98.49; 100.0)	95.6 (92.3; 97.5)	95.2 (91.8; 97.2)	94.0 (90.3; 96.3)	96.4 (93.3; 98.1)	94.8 (91.3; 96.9)	94.0 (90.3; 96.3)	94.0 (90.3; 96.3)	97.2 (94.3; 98.6)
		CS												
		CSH	98.8 (96.5; 99.6)	97.6 (94.9; 98.9)	98.0 (95.4; 99.1)	97.2 (94.3; 98.6)	96.0 (92.8; 97.8)	94.4 (90.8; 96.6)	93.6 (89.9; 96.0)	91.2 (87.0; 94.1)	92.4 (88.4; 95.1)	91.6 (87.5; 94.4)	94.0 (90.3; 96.3)	92.0 (88.0; 94.8)

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{AR}(1)$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	AR(1)	AR(1)												
		ARH(1)	98.8 (96.5; 99.6)	98.4 (96.0; 99.4)	97.6 (94.9; 98.9)	98.0 (95.4; 99.1)	95.6 (92.3; 97.5)	94.8 (91.3; 96.9)	92.4 (88.4; 95.1)	91.6 (87.5; 94.4)	92.8 (88.9; 95.4)	92.0 (88.0; 94.8)	92.4 (88.4; 95.1)	92.4 (88.4; 95.1)
		TOEP												
		UN	98.8 (96.5; 99.6)	98.0 (95.4; 99.1)	99.6 (97.8; 99.9)	98.4 (96.0; 99.4)	96.0 (92.8; 97.8)	94.0 (90.3; 96.3)	94.0 (90.3; 96.3)	92.4 (88.4; 95.1)	94.0 (90.3; 96.3)	92.8 (88.9; 95.4)	93.6 (89.9; 96.0)	92.8 (88.9; 95.4)
	ARH(1)	None	94.0 (90.3; 96.3)	94.8 (91.3; 96.9)	95.6 (92.3; 97.5)	96.8 (93.8; 98.4)	94.0 (90.3; 96.3)	94.8 (91.3; 96.9)	94.4 (90.8; 96.6)	96.0 (92.8; 97.8)	94.0 (90.3; 96.3)	94.0 (90.3; 96.3)	94.4 (90.8; 96.6)	95.6 (92.3; 97.5)
		Int. only												
		VC	98.8 (96.5; 99.6)	99.2 (97.1; 99.8)	99.6 (97.8; 99.9)	99.2 (97.1; 99.8)	94.4 (90.8; 96.6)	95.2 (91.8; 97.2)	92.8 (88.9; 95.4)	92.0 (88.0; 94.8)	94.4 (90.8; 96.6)	93.2 (89.4; 95.7)	93.2 (89.4; 95.7)	92.4 (88.4; 95.1)
		CS												
		CSH	99.2 (97.1; 99.8)	97.6 (94.9; 98.9)	99.2 (97.1; 99.8)	98.4 (96.0; 99.4)	91.6 (87.5; 94.4)	89.6 (85.2; 92.8)	93.2 (89.4; 95.7)	87.6 (82.9; 91.1)	90.4 (86.1; 93.5)	86.0 (81.2; 89.8)	93.2 (89.4; 95.7)	89.2 (84.7; 92.5)
		AR(1)												
		ARH(1)	96.8 (93.8; 98.4)	97.2 (94.3; 98.6)	98.8 (96.5; 99.6)	97.6 (94.9; 98.9)	92.4 (88.4; 95.1)	93.2 (89.4; 95.7)	90.8 (86.6; 93.8)	92.8 (88.9; 95.4)	91.6 (87.5; 94.4)	92.4 (88.4; 95.1)	90.8 (86.6; 93.8)	93.2 (89.4; 95.7)
		TOEP												
		UN	98.0 (95.4; 99.1)	96.8 (93.8; 98.4)	99.2 (97.1; 99.8)	96.8 (93.8; 98.4)	92.8 (88.9; 95.4)	91.6 (87.5; 94.4)	91.6 (87.5; 94.4)	90.8 (86.6; 93.8)	89.2 (84.7; 92.5)	90.0 (85.7; 93.1)	91.2 (87.0; 94.1)	90.8 (86.6; 93.8)
	TOEP	None	98.4 (96.0; 99.4)	98.4 (96.0; 99.4)	98.4 (96.0; 99.4)	98.4 (96.0; 99.4)	93.6 (89.9; 96.0)	94.0 (90.3; 96.3)	90.8 (86.6; 93.8)	91.2 (87.0; 94.1)	92.8 (88.9; 95.4)	92.8 (88.9; 95.4)	90.8 (97.2; 93.8)	91.6 (88.2; 94.4)
		Int. only												
		VC												
		CS												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{AR}(1)$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	TOEP	CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												
	UN	None	99.2 (97.1; 99.8)	98.8 (96.5; 99.6)	98.8 (96.5; 99.6)	98.8 (96.5; 99.6)	94.8 (91.3; 96.9)	91.2 (87.0; 94.1)	95.2 (91.8; 97.2)	87.6 (82.9; 91.1)	92.8 (88.9; 95.4)	90.0 (85.7; 93.1)	95.2 (91.8; 97.2)	88.0 (83.4; 91.5)
		Int. only												
		VC												
		CS												
		CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{AR}(1)$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	VC	None					94.1 (87.0; 97.5)	90.6 (82.5; 95.2)	92.9 (85.44; 96.7)	91.8 (84.0; 96.0)				
		Int. only					95.9 (92.7; 97.8)	95.9 (92.7; 97.8)	95.9 (92.7; 97.8)	95.5 (92.1; 97.5)				
		VC					95.1 (91.7; 97.2)	95.5 (92.2; 97.5)	95.5 (92.2; 97.5)	93.9 (90.2; 96.3)				
		CS					95.1 (91.6; 97.2)	97.1 (94.2; 98.6)	92.2 (88.2; 95.0)	95.1 (91.6; 97.2)				
		CSH					95.1 (91.6; 97.2)	94.3 (90.6; 96.6)	96.3 (93.1; 98.1)	95.5 (92.1; 97.5)				
		AR(1)												
		ARH(1)					95.5 (92.1; 97.5)	94.7 (91.1; 96.9)	94.2 (90.6; 96.5)	93.8 (90.1; 96.2)				
		TOEP												
		UN					92.2 (88.1; 94.9)	96.3 (93.1; 98.0)	93.4 (89.6; 95.9)	93.0 (89.1; 95.6)				
	CS	None					95.2 (91.7; 97.2)	94.4 (90.8; 96.6)	94.8 (91.2; 96.9)	93.1 (89.3; 95.7)				
		Int. only												
		VC												
		CS												
		CSH					96.4 (93.2; 98.1)	94.7 (91.2; 96.9)	93.9 (90.2; 96.3)	94.3 (90.7; 96.6)				
	AR(1)													

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{AR}(1)$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	CS	ARH(1)												
		TOEP												
		UN												
	CSH	None					96.8 (93.7; 98.4)	93.5 (89.7; 96.0)	96.4 (93.2; 98.1)	95.1 (91.7; 97.2)				
		Int. only												
		VC												
		CS												
		CSH					93.9 (90.1; 96.2)	93.4 (89.6; 95.9)	94.7 (91.1; 96.9)	91.0 (86.7; 93.97)				
		AR(1)												
		ARH(1)					93.9 (90.2; 96.3)	94.7 (91.1; 96.9)	93.5 (89.7; 95.9)	94.3 (90.6; 96.6)				
		TOEP												
		UN					95.4 (92.0; 97.4)	93.8 (90.0; 96.2)	95.4 (92.0; 97.4)	94.2 (90.5; 96.5)				
	AR(1)	None					92.8 (87.6; 95.9)	90.2 (84.5; 94.0)	91.5 (86.0; 95.0)	92.2 (86.8; 95.5)				
		Int. only					98.8 (96.5; 99.6)	97.2 (94.2; 98.6)	96.3 (93.2; 98.1)	96.3 (93.2; 98.1)				
		VC					95.1 (91.7; 97.2)	95.1 (91.7; 97.2)	94.3 (90.7; 96.6)	97.2 (94.2; 98.6)				
		CS												
		CSH					97.2 (94.2; 98.6)	95.9 (92.7; 97.8)	96.7 (93.7; 98.3)	95.5 (92.2; 97.5)				

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{AR}(1)$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	AR(1)	AR(1)												
		ARH(1)					96.4 (93.3; 98.1)	95.2 (91.7; 97.2)	95.6 (92.2; 97.5)	96.4 (93.3; 98.1)				
		TOEP												
		UN					98.0 (95.4; 99.1)	95.2 (91.7; 97.2)	96.4 (93.3; 98.1)	95.6 (92.2; 97.5)				
	ARH(1)	None					92.5 (87.0; 95.7)	95.2 (90.4; 97.7)	92.5 (87.0; 95.7)	94.5 (89.6; 97.2)				
		Int. only												
		VC					94.7 (91.1; 96.9)	94.3 (90.7; 96.6)	93.9 (90.2; 96.3)	93.5 (89.7; 96.0)				
		CS												
		CSH					95.5 (92.2; 97.5)	92.3 (88.3; 95.0)	96.3 (93.2; 98.1)	93.1 (89.2; 95.6)				
		AR(1)												
		ARH(1)					95.2 (91.8; 97.2)	96.4 (93.3; 98.1)	94.8 (91.3; 96.9)	96.0 (92.8; 97.8)				
		TOEP												
		UN					95.1 (91.6; 97.2)	93.9 (90.1; 96.2)	96.7 (93.7; 98.3)	94.7 (91.1; 96.7)				
	TOEP	None					95.5 (92.2; 97.5)	95.5 (92.2; 97.5)	94.3 (90.7; 96.6)	94.3 (90.7; 96.6)				
		Int. only												
		VC												
		CS												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{AR}(1)$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	TOEP	CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												
	UN	None					96.4 (93.3; 98.1)	95.2 (91.8; 97.2)	97.2 (94.3; 98.6)	93.2 (89.4; 95.7)				
		Int. only												
		VC												
		CS												
		CSH												
		AR(1)												
		ARH(1)												
		TOEP												
	UN													

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{AR}(1)$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	VC	None	94.1 (86.7; 97.5)	90.6 (82.5; 95.2)	92.9 (85.4; 96.7)	91.8 (84.0; 96.0)					96.0 (92.8; 97.8)	94.8 (91.3; 96.9)	96.0 (92.8; 97.8)	94.4 (90.8; 96.6)
		Int. only	95.9 (92.7; 97.8)	95.9 (92.7; 97.8)	95.9 (92.7; 97.8)	95.5 (92.1; 97.5)					96.0 (92.8; 97.8)	95.6 (92.3; 97.5)	95.6 (92.3; 97.5)	96.0 (92.8; 97.8)
		VC	95.1 (91.7; 97.2)	95.5 (92.2; 97.5)	95.5 (92.5; 97.5)	93.9 (90.2; 96.3)					95.2 (91.8; 97.2)	95.6 (92.3; 97.5)	95.6 (92.3; 97.5)	94.0 (90.3; 96.3)
		CS	95.1 (91.6; 97.2)	97.1 (94.2; 98.6)	92.2 (88.2; 95.0)	95.1 (91.6; 97.2)					95.2 (91.8; 97.2)	96.8 (93.8; 98.4)	92.4 (88.4; 95.1)	95.2 (91.8; 97.2)
		CSH	95.1 (91.6; 97.2)	94.3 (90.6; 96.6)	96.3 (93.2; 98.1)	95.5 (92.1; 97.5)					95.2 (91.8; 97.2)	94.8 (91.3; 96.9)	96.4 (93.3; 98.1)	96.0 (92.8; 97.8)
		AR(1)												
		ARH(1)	95.5 (92.1; 97.5)	94.7 (91.1; 96.9)	94.2 (90.6; 96.5)	93.8 (90.1; 96.2)					95.2 (91.8; 97.2)	94.8 (91.3; 96.9)	94.4 (90.8; 96.6)	94.0 (90.3; 96.3)
		TOEP												
		UN	92.2 (88.1; 94.9)	96.3 (93.1; 98.0)	93.4 (89.6; 95.9)	93.0 (89.1; 95.6)					92.4 (88.4; 95.1)	96.4 (93.3; 98.1)	93.6 (89.9; 96.0)	93.6 (89.9; 96.0)
	CS	None	95.2 (91.7; 97.2)	94.4 (90.8; 96.6)	94.8 (91.2; 96.9)	93.1 (89.3; 95.7)					94.8 (91.3; 96.9)	94.4 (90.8; 96.6)	94.8 (91.3; 96.9)	93.2 (89.4; 95.7)
		Int. only												
		VC												
		CS												
		CSH	96.4 (93.2; 98.1)	94.7 (91.2; 96.9)	93.9 (90.2; 96.3)	94.3 (90.7; 96.6)					96.4 (93.3; 98.1)	94.8 (91.3; 96.9)	94.0 (90.3; 96.3)	94.4 (90.8; 96.6)
		AR(1)												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{AR}(1)$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	CS	ARH(1)												
		TOEP												
		UN												
	CSH	None	96.8 (93.7; 98.4)	93.5 (89.7; 96.0)	96.4 (93.2; 98.1)	95.1 (91.7; 97.2)					96.8 (93.8; 98.4)	93.6 (89.9; 96.0)	96.4 (93.3; 98.1)	95.2 (91.8; 97.2)
		Int. only												
		VC												
		CS												
		CSH	93.9 (90.1; 96.2)	93.4 (89.6; 95.9)	94.7 (91.1; 96.9)	91.0 (86.7; 94.0)					94.0 (90.3; 96.3)	93.6 (89.9; 96.0)	94.0 (90.3; 96.3)	91.6 (87.5; 94.4)
		AR(1)												
		ARH(1)	93.9 (90.2; 96.3)	94.7 (91.1; 96.9)	93.5 (89.7; 95.9)	94.3 (90.6; 96.6)					94.0 (90.3; 96.3)	94.8 (91.3; 96.9)	93.6 (89.9; 96.0)	94.4 (90.8; 96.6)
		TOEP												
		UN	95.4 (92.0; 97.4)	93.8 (90.0; 96.2)	95.4 (92.0 97.4)	94.2 (90.5; 96.5)					95.6 (92.3; 97.5)	94.4 (90.8; 96.6)	95.6 (92.3; 97.5)	95.2 (91.8; 97.2)
	AR(1)	None	92.9 (87.4; 96.0)	90.3 (84.7; 94.1)	91.6 (86.2; 95.0)	92.3 (87.0; 95.5)					95.6 (92.3; 97.5)	94.0 (90.3; 96.3)	94.4 (90.8; 96.6)	96.4 (93.3; 98.1)
		Int. only	98.8 (96.5; 99.6)	97.2 (94.2; 98.6)	96.3 (93.2; 98.1)	96.3 (93.2; 98.1)					99.2 (97.1; 99.8)	97.2 (94.3; 98.6)	96.4 (93.3; 98.1)	96.8 (93.8; 98.4)
		VC	95.1 (91.7; 97.2)	95.1 (91.7; 97.2)	94.3 (90.7; 96.6)	97.2 (94.2; 98.6)					95.2 (91.8; 97.2)	94.8 (91.3; 96.9)	94.4 (90.8; 96.6)	97.2 (94.3; 98.6)
		CS												
		CSH	97.2 (94.2; 98.6)	95.9 (92.7; 97.8)	96.7 (93.7; 98.3)	95.5 (92.2; 97.5)					97.2 (94.3; 98.6)	96.4 (93.3; 98.1)	97.2 (94.3; 98.6)	95.6 (92.3; 97.5)

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{AR}(1)$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	AR(1)	AR(1)												
		ARH(1)	96.4 (93.3; 98.1)	95.2 (91.7; 97.2)	95.6 (92.2; 97.5)	96.4 (93.3; 98.1)					96.4 (93.3; 98.1)	95.2 (91.8; 97.2)	95.6 (92.3; 97.5)	96.4 (93.3; 98.1)
		TOEP												
		UN	98.0 (95.4; 99.1)	95.2 (91.7; 97.2)	96.4 (93.3; 98.1)	95.6 (92.2; 97.5)					98.0 (95.4; 99.1)	95.2 (91.8; 97.2)	96.4 (93.3; 98.1)	95.6 (92.3; 97.5)
	ARH(1)	None	92.5 (87.0; 95.7)	95.2 (90.4; 97.7)	93.2 (87.9; 96.2)	94.5 (89.6; 97.2)					95.6 (92.3; 97.5)	96.4 (93.3; 98.1)	96.0 (92.8; 97.8)	96.4 (93.3; 98.1)
		Int. only												
		VC	94.7 (91.2; 96.9)	94.3 (90.7; 96.6)	93.9 (90.2; 96.3)	93.5 (89.7; 96.0)					94.4 (90.8; 96.6)	94.0 (90.3; 96.3)	94.4 (90.8; 96.6)	94.0 (90.3; 96.3)
		CS												
		CSH	95.5 (92.2; 97.5)	92.3 (88.3; 95.0)	96.3 (93.2; 98.1)	93.1 (89.2; 95.6)					95.6 (92.3; 97.5)	92.4 (88.4; 95.1)	96.4 (93.3; 98.1)	93.2 (89.4; 95.7)
		AR(1)												
		ARH(1)	95.2 (91.7; 97.2)	96.4 (93.3; 98.1)	94.8 (91.2; 96.9)	96.0 (92.7; 97.8)					95.6 (92.3; 97.5)	96.4 (93.3; 98.1)	95.6 (92.3; 97.5)	96.8 (93.8; 98.4)
		TOEP												
		UN	95.1 (91.6; 97.2)	93.9 (90.2; 96.3)	96.7 (93.7; 98.3)	94.7 (91.1; 96.9)					95.2 (91.8; 97.2)	94.0 (90.3; 96.3)	96.8 (93.8; 98.4)	94.8 (91.3; 96.9)
	TOEP	None	95.5 (92.2; 97.5)	95.5 (92.2; 97.5)	94.3 (90.7; 96.6)	94.3 (90.7; 96.6)					95.6 (92.3; 97.5)	95.6 (92.3; 97.5)	94.4 (90.8; 96.6)	94.4 (90.8; 96.6)
		Int. only												
		VC												
		CS												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{AR}(1)$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	TOEP	CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												
	UN	None	96.4 (93.3; 98.1)	95.2 (91.8; 97.2)	97.2 (94.3; 98.6)	93.2 (89.4; 95.7)					96.4 (93.3; 98.1)	95.2 (91.8; 97.2)	97.2 (94.3; 98.6)	93.2 (89.4; 95.7)
		Int. only												
		VC												
		CS												
		CSH												
		AR(1)												
		ARH(1)												
		TOEP												
	UN													

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{ARH}(1)$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	VC	None	94.0 (90.3; 96.3)	92.0 (88.0; 94.8)	95.6 (92.3; 97.5)	92.0 (88.0; 94.8)					93.2 (89.4; 95.7)	90.0 (85.7; 93.1)	94.4 (90.8; 96.6)	92.0 (88.0; 94.8)
		Int. only	98.8 (96.5; 99.6)	99.6 (97.8; 99.9)	99.6 (97.8; 99.9)	100.0 (98.5; 100.0)					94.3 (90.7; 96.6)	93.9 (90.2; 96.3)	93.9 (90.2; 96.3)	91.5 (87.3; 94.4)
		VC	98.8 (96.5; 99.6)	98.8 (96.5; 99.6)	99.2 (97.1; 99.8)	98.8 (96.5; 99.6)					94.7 (91.1; 96.9)	91.0 (86.7; 94.0)	95.1 (91.6; 97.2)	91.4 (87.2; 94.3)
		CS	98.8 (96.5; 99.6)	99.6 (97.8; 99.9)	98.4 (96.0; 99.4)	99.2 (97.1; 99.8)					93.5 (89.7; 96.0)	93.5 (89.7; 96.0)	91.1 (86.8; 94.0)	94.3 (90.7; 96.6)
		CSH	98.0 (95.4; 99.1)	98.8 (96.5; 99.6)	98.4 (96.0; 99.4)	100.0 (98.5; 100.0)					94.3 (90.8; 96.6)	92.8 (88.9; 95.4)	96.4 (93.3; 98.1)	90.4 (86.1; 93.4)
		AR(1)												
		ARH(1)	96.8 (93.8; 98.4)	98.4 (96.0; 99.4)	98.4 (96.0; 99.4)	98.4 (96.0; 99.4)					92.7 (88.8; 95.3)	90.3 (86.0; 93.4)	91.9 (87.8; 94.7)	88.3 (83.7; 91.7)
		TOEP												
		UN	98.0 (95.4; 99.1)	98.8 (96.5; 99.6)	98.4 (96.0; 99.4)	99.2 (97.1; 99.8)					90.7 (86.5; 93.7)	93.1 (89.3; 95.7)	91.5 (87.4; 94.4)	93.1 (89.3; 95.7)
		CS	98.4 (96.0; 99.4)	98.4 (96.0; 99.4)	98.8 (96.5; 99.6)	98.4 (96.0; 99.4)					91.1 (86.9; 94.0)	90.7 (86.4; 93.7)	93.1 (89.3; 95.7)	90.3 (86.0; 93.4)
		Int. only												
		VC												
		CS												
		CSH	98.0 (95.4; 99.1)	98.0 (95.4; 99.1)	98.4 (96.0; 99.4)	98.4 (96.0; 99.4)					94.3 (90.7; 96.6)	93.1 (89.3; 95.7)	91.9 (87.8; 95.3)	91.1 (86.9; 94.0)
		AR(1)												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{ARH}(1)$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	CS	ARH(1)												
		TOEP												
		UN												
	CSH	None	98.4 (96.0; 99.4)	98.4 (96.0; 99.4)	99.2 (97.1; 99.8)	99.6 (97.8; 99.9)					92.6 (88.6; 95.3)	90.9 (86.7; 94.0)	92.2 (88.1; 94.9)	89.7 (85.3; 92.9)
		Int. only												
		VC												
		CS												
		CSH	98.0 (95.4; 99.1)	96.4 (93.3; 98.1)	97.2 (94.3; 98.6)	96.4 (93.3; 98.1)					93.7 (89.9; 96.1)	94.1 (90.4; 96.5)	90.3 (85.9; 93.5)	89.9 (85.4; 93.1)
		AR(1)												
		ARH(1)	97.2 (94.3; 98.6)	98.0 (95.4; 99.1)	97.6 (94.9; 98.9)	97.6 (94.9; 98.9)					92.5 (88.5; 95.2)	92.9 (89.0; 95.5)	92.5 (88.5; 95.2)	93.3 (89.5; 95.9)
		TOEP												
		UN	98.4 (96.0; 99.4)	96.8 (93.8; 98.4)	98.8 (96.5; 99.6)	98.4 (96.0; 99.4)					90.6 (86.1; 93.8)	92.0 (87.7; 94.9)	91.2 (90.3; 96.6)	93.8 (89.8; 96.2)
	AR(1)	None	96.4 (93.3; 98.1)	94.8 (91.3; 96.9)	94.4 (90.8; 96.6)	94.8 (91.3; 96.9)					95.2 (91.8; 97.2)	91.6 (87.5; 94.4)	92.8 (88.9; 95.4)	92.4 (88.4; 95.1)
		Int. only	99.6 (97.8; 99.9)	99.2 (97.1; 99.8)	99.6 (97.8; 99.9)	99.2 (97.1; 99.8)					95.1 (91.7; 97.2)	96.3 (93.2; 98.1)	94.7 (91.2; 96.9)	94.7 (91.2; 96.9)
		VC	98.8 (96.5; 99.6)	99.2 (97.1; 99.8)	99.2 (97.1; 99.8)	99.6 (97.8; 99.9)					93.2 (89.3; 95.7)	91.9 (87.9; 94.7)	92.3 (88.3; 95.0)	93.5 (89.8; 96.0)
		CS												
		CSH	98.4 (96.0; 99.4)	97.6 (94.9; 98.9)	98.4 (96.0; 199.4)	97.6 (94.9; 98.9)					90.7 (86.4; 93.7)	91.9 (87.8; 94.7)	93.1 (89.3; 95.7)	91.9 (87.8; 94.7)

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{ARH}(1)$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	AR(1)	AR(1)												
		ARH(1)	98.8 (96.5; 99.6)	99.2 (97.1; 99.8)	98.0 (95.4; 99.1)	99.2 (97.1; 99.8)					91.0 (86.8; 94.0)	92.2 (88.2; 95.0)	91.8 (87.7; 94.7)	93.5 (89.7; 95.9)
		TOEP												
		UN	98.8 (96.5; 99.6)	97.6 (94.9; 98.9)	99.2 (97.1; 99.8)	98.8 (96.5; 99.6)					92.3 (88.3; 95.0)	89.1 (84.6; 92.4)	91.1 (86.9; 94.0)	89.9 (85.5; 93.1)
	ARH(1)	None	94.4 (90.8; 96.6)	94.0 (90.3; 96.3)	95.6 (92.3; 97.5)	95.6 (92.3; 97.5)					92.4 (88.4; 95.1)	93.2 (89.4; 95.7)	93.6 (89.8; 96.0)	95.2 (91.8; 97.2)
		Int. only												
		VC	98.4 (96.0; 99.4)	99.2 (97.1; 99.8)	98.4 (96.0; 99.4)	98.4 (96.0; 99.4)					92.4 (88.3; 95.1)	92.0 (87.8; 94.8)	93.2 (89.3; 95.8)	92.4 (88.3; 95.1)
		CS												
		CSH	98.4 (96.0; 99.4)	98.4 (96.0; 99.4)	99.2 (97.1; 99.8)	99.6 (97.8; 99.9)					90.2 (85.8; 93.3)	88.1 (83.5; 91.6)	91.4 (87.2; 94.3)	91.4 (87.2; 94.3)
		AR(1)												
		ARH(1)	97.2 (94.3; 98.6)	98.0 (95.4; 99.1)	99.6 (97.8; 99.9)	98.4 (96.0; 99.4)					90.5 (86.2; 93.6)	91.4 (87.2; 94.3)	90.5 (86.2; 93.6)	92.6 (88.6; 95.3)
		TOEP												
		UN	97.2 (94.3; 98.6)	96.8 (93.8; 98.4)	97.6 (94.9; 98.9)	97.2 (94.3; 98.6)					91.5 (87.3; 94.4)	89.8 (85.4; 93.0)	90.7 (83.4; 93.7)	91.9 (87.8; 94.7)
	TOEP	None	98.0 (95.4; 99.1)	98.0 (95.4; 99.1)	98.0 (95.4; 99.1)	98.4 (96.0; 99.4)					91.6 (87.5; 94.4)	90.0 (85.7; 93.1)	91.2 (87.0; 94.1)	90.4 (86.1; 93.5)
		Int. only												
		VC												
		CS												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{ARH}(1)$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	TOEP	CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												
	UN	None	97.6 (94.9; 98.9)	98.8 (96.5; 99.6)	98.4 (96.0; 99.4)	99.2 (97.1; 99.8)					91.8 (87.7; 94.7)	91.4 (87.3; 94.3)	94.7 (91.1; 96.9)	90.2 (85.8; 93.3)
		Int. only												
		VC												
		CS												
		CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{ARH}(1)$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	VC	None					94.1 (89.2; 96.9)	87.6 (81.4; 91.9)	94.8 (90.0; 97.3)	88.9 (82.9; 93.0)				
		Int. only					93.4 (89.3; 95.9)	91.6 (87.2; 94.6)	93.8 (89.9; 96.3)	90.3 (85.7; 93.5)				
		VC					94.8 (91.1; 97.0)	90.4 (85.9; 93.6)	94.8 (91.0; 97.0)	92.2 (88.0; 95.0)				
		CS					94.3 (90.5; 96.6)	93.9 (90.0; 96.3)	91.2 (86.8; 94.3)	93.4 (89.4; 96.0)				
		CSH					94.6 (90.8; 96.9)	94.6 (90.8; 96.9)	96.9 (93.7; 98.5)	91.5 (87.1; 94.5)				
		AR(1)												
		ARH(1)					93.9 (80.0; 96.3)	92.1 (87.9; 95.0)	92.1 (87.9; 95.0)	88.6 (83.8; 92.1)				
		TOEP												
		UN					90.4 (85.8; 93.5)	92.1 (87.9; 95.0)	92.1 (87.9; 95.0)	92.5 (88.4; 95.3)				
	CS	None					93.1 (89.1; 95.7)	92.2 (88.0; 95.0)	92.2 (88.0; 95.0)	89.6 (85.0; 92.9)				
		Int. only												
		VC												
		CS												
		CSH					93.7 (89.7; 96.2)	92.8 (88.6; 95.5)	92.3 (88.1; 95.2)	91.9 (87.6; 94.8)				
		AR(1)												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{ARH}(1)$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	CS	ARH(1)												
		TOEP												
		UN												
	CSH	None					94.2 (90.4; 96.6)	91.1 (86.7; 94.2)	92.4 (88.2; 95.2)	89.3 (84.6; 92.7)				
		Int. only												
		VC												
		CS												
		CSH					94.8 (90.8; 97.2)	94.8 (90.8; 97.2)	93.3 (88.9; 96.0)	92.8 (88.3; 95.7)				
		AR(1)												
		ARH(1)					94.0 (89.8; 96.5)	93.5 (89.2; 96.2)	92.5 (88.0; 95.4)	94.5 (90.4; 96.9)				
		TOEP												
		UN					91.8 (87.1; 94.9)	92.3 (87.7; 95.3)	93.8 (89.6; 96.5)	93.8 (89.6; 96.5)				
	AR(1)	None					95.7 (91.7; 97.8)	92.5 (87.8; 95.5)	93.5 (89.1; 96.3)	91.4 (86.5; 94.6)				
		Int. only					96.9 (93.8; 98.5)	95.6 (92.2; 97.6)	94.3 (90.5; 96.7)	93.9 (90.0; 96.3)				
		VC					94.5 (90.8; 96.7)	92.3 (88.2; 95.1)	92.8 (88.7; 95.4)	94.0 (90.3; 96.4)				
		CS												
		CSH					93.9 (90.1; 96.4)	93.1 (89.1; 95.7)	96.1 (92.8; 98.0)	94.0 (90.1; 96.4)				

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{ARH}(1)$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	AR(1)	AR(1)												
		ARH(1)					96.1 (92.8; 98.0)	93.5 (89.6; 96.0)	94.0 (90.1; 96.4)	94.8 (91.1; 97.0)				
		TOEP												
		UN					94.6 (91.0; 96.8)	91.7 (87.5; 94.5)	94.2 (90.5; 96.5)	94.2 (90.5; 96.5)				
	ARH(1)	None					93.4 (88.9; 96.2)	93.4 (88.9; 96.2)	94.0 (89.6; 96.6)	94.5 (90.2; 97.0)				
		Int. only												
		VC					92.1 (87.8; 95.0)	92.1 (87.8; 95.0)	93.5 (89.4; 96.1)	94.0 (90.0; 96.5)				
		CS												
		CSH					96.5 (92.9; 98.3)	92.9 (88.5; 95.7)	97.5 (94.2; 98.9)	93.9 (89.7; 96.5)				
		AR(1)												
		ARH(1)					94.0 (89.8; 96.5)	95.5 (91.7; 97.6)	95.0 (91.0; 97.3)	96.0 (92.3; 98.0)				
		TOEP												
		UN					94.3 (90.1; 96.8)	93.8 (89.5; 96.4)	94.3 (90.1; 96.8)	93.8 (89.5; 96.4)				
	TOEP	None					94.8 (91.2; 97.0)	91.8 (87.6; 94.7)	93.1 (89.1; 95.7)	93.1 (89.1; 95.7)				
		Int. only												
		VC												
		CS												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{ARH}(1)$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	TOEP	CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												
	UN	None					93.9 (89.4; 96.6)	94.4 (90.1; 97.0)	95.0 (90.8; 97.4)	93.3 (88.7; 96.2)				
		Int. only												
		VC												
		CS												
		CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{ARH}(1)$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	VC	None	94.1 (89.2; 96.9)	87.6 (81.4; 91.9)	94.8 (90.0; 97.3)	88.9 (82.9; 93.0)					93.5 (89.6; 96.0)	91.3 (87.0; 94.3)	93.9 (90.1; 96.4)	93.1 (89.81; 95.7)
		Int. only	93.3 (89.3; 95.9)	92.0 (87.7; 94.9)	93.8 (89.8; 96.2)	90.2 (85.6; 93.4)					93.7 (89.9; 96.1)	93.3 (89.4; 95.8)	94.1 (90.4; 96.5)	91.2 (86.9; 94.2)
		VC	94.8 (91.1; 97.0)	90.4 (85.9; 93.6)	94.8 (91.1; 97.0)	92.2 (88.0; 95.0)					94.2 (90.3; 96.6)	90.6 (86.1; 93.8)	94.6 (90.9; 96.9)	92.9 (88.7; 95.6)
		CS	94.3 (90.5; 96.6)	93.9 (90.0; 96.3)	91.2 (86.8; 94.3)	93.4 (89.4; 96.0)					94.7 (91.0; 97.0)	93.0 (88.9; 95.6)	92.1 (87.8; 94.9)	94.7 (91.0; 97.0)
		CSH	94.6 (90.9; 96.9)	94.2 (90.3; 96.6)	96.9 (93.7; 98.5)	91.5 (87.1; 94.5)					95.2 (91.7; 97.3)	94.4 (90.6; 96.7)	97.0 (93.9; 98.5)	90.9 (86.5; 94.0)
		AR(1)												
		ARH(1)	94.0 (90..0; 96.3)	92.2 (88.0; 95.0)	92.2 (88.0; 95.0)	88.7 (84.0; 92.2)					93.2 (89.3; 95.8)	91.1 (86.8; 94.3)	91.6 (87.3; 94.5)	88.6 (83.9; 92.1)
		TOEP												
		UN	90.4 (85.9; 93.6)	92.1 (87.9; 95.0)	92.1 (87.9; 95.0)	92.6 (88.4; 95.3)					91.3 (86.9; 94.3)	93.0 (89.0; 95.7)	92.6 (88.4; 95.3)	93.0 (89.0; 95.7)
		CS	93.1 (89.1; 95.7)	92.2 (88.0; 95.0)	92.2 (88.0; 95.0)	89.6 (85.0; 92.9)					94.6 (90.9; 96.8)	93.3 (89.4; 95.8)	93.3 (89.4; 95.8)	90.0 (85.5; 93.2)
		Int. only												
		VC												
		CS												
		CSH	93.8 (89.8; 96.2)	92.4 (88.2; 95.2)	92.4 (88.2; 95.2)	92.0 (87.7; 94.9)					94.5 (90.8; 96.7)	94.0 (90.3; 96.4)	94.0 (90.3; 96.4)	94.0 (90.3; 96.4)
		AR(1)												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{ARH}(1)$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	CS	ARH(1)												
		TOEP												
		UN												
	CSH	None	94.2 (90.3; 96.6)	91.1 (86.6; 94.2)	92.4 (88.2; 95.2)	89.3 (84.6; 92.7)					94.3 (90.5; 96.7)	91.7 (87.4; 94.6)	93.0 (89.0; 95.7)	89.1 (84.4; 92.5)
		Int. only												
		VC												
		CS												
		CSH	94.9 (90.9; 97.2)	94.9 (90.9; 97.2)	93.4 (89.0; 96.1)	92.9 (88.4; 95.7)					95.3 (91.3; 97.5)	95.8 (92.0; 97.9)	93.8 (89.4; 96.4)	92.2 (87.5; 95.2)
		AR(1)												
		ARH(1)	94.0 (89.9; 96.6)	93.5 (89.3; 96.2)	93.0 (88.7; 95.9)	94.5 (90.5; 96.9)					93.8 (89.6; 96.5)	93.8 (89.6; 96.5)	93.8 (89.6; 96.5)	94.4 (90.2; 96.8)
		TOEP												
		UN	91.8 (87.2; 94.9)	92.3 (87.8; 95.3)	93.9 (89.6; 96.5)	93.9 (89.6; 96.5)					90.8 (86.0; 94.1)	93.9 (89.6; 96.5)	94.4 (90.2; 96.8)	94.9 (90.9; 97.2)
	AR(1)	None	95.7 (91.8; 97.8)	92.5 (87.8; 95.5)	93.6 (89.1; 96.3)	91.4 (86.6; 94.7)					95.7 (92.2; 97.6)	92.2 (88.0; 95.0)	93.5 (89.6; 96.0)	93.5 (90.0; 96.0)
		Int. only	97.0 (93.9; 98.5)	95.7 (92.8; 97.6)	94.3 (90.6; 96.7)	93.9 (90.0; 96.3)					97.0 (94.0; 98.6)	96.6 (93.5; 98.3)	94.1 (90.3; 96.4)	94.5 (90.8; 96.8)
		VC	94.5 (90.8; 96.8)	92.4 (88.3; 95.1)	92.8 (88.8; 95.5)	94.1 (90.3; 96.4)					94.8 (91.1; 97.0)	90.9 (86.5; 94.0)	92.6 (88.5; 95.4)	93.5 (89.6; 96.0)
		CS												
		CSH	94.0 (90.1; 96.4)	93.1 (89.1; 95.7)	96.1 (92.8; 98.0)	94.0 (90.1; 96.4)					94.5 (90.8; 96.7)	92.8 (88.7; 95.4)	96.6 (93.4; 98.3)	93.6 (89.7; 96.1)

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{ARH}(1)$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	AR(1)	AR(1)												
		ARH(1)	96.2 (92.8; 98.0)	93.6 (89.7; 96.1)	94.0 (90.2; 96.4)	94.9 (91.3; 97.0)					96.3 (93.1; 98.1)	93.4 (89.6; 95.9)	94.3 (90.6; 96.6)	95.1 (91.6; 97.2)
		TOEP												
		UN	94.6 (91.0; 96.8)	91.7 (87.5; 94.6)	94.2 (90.5; 96.5)	93.8 (90.0; 96.2)					94.5 (90.8; 96.8)	92.0 (87.8; 94.8)	94.5 (90.8; 96.8)	94.5 (90.8; 96.8)
	ARH(1)	None	93.4 (88.9; 96.2)	93.4 (88.9; 96.2)	94.0 (89.6; 96.6)	94.5 (90.3; 97.0)					94.9 (92.3; 97.0)	95.3 (91.8; 97.4)	95.7 (92.3; 97.7)	96.6 (93.4; 98.3)
		Int. only												
		VC	92.1 (87.8; 95.0)	92.1 (87.8; 95.0)	93.5 (89.4; 96.1)	94.0 (90.0; 96.5)					91.4 (87.0; 94.4)	91.4 (87.0; 94.4)	93.7 (89.7; 96.2)	93.7 (89.7; 96.2)
		CS												
		CSH	96.5 (92.9; 98.3)	92.9 (88.5; 95.7)	97.5 (94.2; 98.9)	93.9 (89.7; 96.5)					94.7 (90.4; 97.1)	92.0 (87.2; 95.1)	96.3 (92.5; 98.2)	93.6 (89.1; 96.3)
		AR(1)												
		ARH(1)	94.0 (89.8; 96.5)	95.5 (91.7; 97.6)	95.0 (91.0; 97.3)	96.0 (92.3; 98.0)					94.9 (90.8; 97.2)	95.9 (92.1; 97.9)	95.9 (92.1; 97.9)	96.4 (92.8; 98.3)
		TOEP												
		UN	94.3 (90.1; 96.8)	93.8 (89.5; 96.4)	94.3 (90.1; 96.8)	93.8 (89.5; 96.4)					93.8 (89.4; 96.4)	93.8 (89.4; 96.4)	93.2 (89.7; 96.8)	93.8 (89.4; 96.4)
	TOEP	None	94.8 (91.2; 97.0)	91.8 (87.6; 94.7)	93.1 (89.1; 95.7)	93.1 (89.1; 95.7)					94.9 (91.3; 97.0)	91.9 (87.7; 94.7)	93.6 (89.7; 96.1)	93.6 (89.7; 96.1)
		Int. only												
		VC												
		CS												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{ARH}(1)$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	TOEP	CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												
	UN	None	93.9 (89.5; 96.6)	94.5 (90.1; 97.0)	95.0 (90.8; 97.4)	93.4 (88.8; 96.2)					94.8 (90.6; 97.1)	94.8 (90.6; 97.1)	95.8 (92.0; 97.9)	94.2 (90.0; 96.8)
		Int. only												
		VC												
		CS												
		CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{TOEP}$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	VC	None	94.8 (91.3; 96.9)	92.8 (88.9; 95.4)	94.4 (90.8; 96.6)	93.6 (89.9; 96.0)								
		Int. only	96.0 (92.8; 97.8)	95.6 (92.3; 97.5)	93.2 (89.4; 95.7)	93.6 (89.9; 96.0)								
		VC	96.4 (93.3; 98.1)	96.4 (93.3; 98.1)	94.8 (91.3; 96.9)	94.0 (90.3; 96.3)								
		CS	96.4 (93.3; 98.1)	98.0 (95.4; 99.1)	91.6 (87.5; 94.4)	94.8 (91.3; 96.9)								
		CSH	96.4 (93.3; 98.1)	95.6 (92.3; 97.5)	95.2 (91.8; 97.2)	94.4 (90.8; 96.6)								
		AR(1)												
		ARH(1)	95.2 (91.8; 97.2)	94.8 (91.3; 96.9)	92.0 (88.0; 94.8)	92.8 (88.9; 95.4)								
		TOEP												
		UN	92.4 (88.4; 95.1)	96.4 (93.3; 98.1)	92.8 (88.9; 95.4)	94.4 (90.8; 96.6)								
		CS	94.4 (90.8; 96.6)	93.6 (89.9; 96.0)	93.2 (89.4; 95.7)	92.4 (88.4; 95.1)								
		Int. only												
		VC												
		CS												
		CSH	95.6 (92.3; 97.5)	94.8 (91.3; 96.9)	93.2 (89.4; 95.7)	93.6 (89.9; 96.0)								
		AR(1)												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{TOEP}$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	CS	ARH(1)												
		TOEP												
		UN												
	CSH	None	94.4 (90.8; 96.6)	92.8 (88.9; 95.4)	94.8 (91.3; 96.9)	92.0 (88.0; 94.8)								
		Int. only												
		VC												
		CS												
		CSH	94.8 (91.3; 96.9)	93.6 (89.9; 96.0)	92.8 (88.9; 95.4)	90.0 (85.7; 93.1)								
		AR(1)												
		ARH(1)	95.2 (91.8; 97.2)	95.6 (92.3; 97.5)	94.4 (90.8; 96.6)	93.6 (89.9; 96.0)								
		TOEP												
		UN	96.4 (93.3; 98.1)	94.8 (91.3; 96.9)	94.8 (91.3; 96.9)	94.8 (91.3; 96.9)								
	AR(1)	None	94.8 (91.3; 96.9)	93.6 (89.9; 96.0)	94.0 (90.3; 96.3)	94.8 (91.3; 96.9)								
		Int. only	97.2 (94.3; 98.6)	96.4 (93.3; 98.1)	95.2 (91.8; 97.2)	95.6 (92.3; 97.5)								
		VC	95.6 (92.3; 97.5)	96.0 (92.8; 97.8)	94.8 (91.3; 96.9)	97.2 (94.3; 98.6)								
		CS												
		CSH	98.0 (95.4; 99.1)	98.0 (95.4; 99.1)	96.8 (93.8; 98.4)	95.2 (91.8; 97.2)								

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: ω_i = TOEP												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	AR(1)	AR(1)												
		ARH(1)	97.2 (94.3; 98.6)	96.8 (93.8; 98.4)	95.2 (91.8; 97.2)	95.6 (92.3; 97.5)								
		TOEP												
		UN	99.2 (97.1; 99.8)	95.2 (91.8; 97.2)	96.4 (93.3; 98.1)	95.6 (92.3; 97.5)								
	ARH(1)	None	94.0 (90.3; 96.3)	94.4 (90.8; 96.6)	94.4 (90.8; 96.6)	95.6 (92.3; 97.5)								
		Int. only												
		VC	94.4 (90.8; 96.6)	95.2 (91.8; 97.2)	92.8 (88.9; 95.4)	93.2 (89.4; 95.7)								
		CS												
		CSH	96.0 (92.8; 97.8)	90.8 (86.6; 93.8)	95.6 (92.3; 97.5)	91.6 (87.5; 94.4)								
		AR(1)												
		ARH(1)	96.0 (92.8; 97.8)	95.2 (91.8; 97.2)	94.8 (91.3; 96.9)	96.4 (93.3; 98.1)								
		TOEP												
		UN	96.0 (92.8; 97.8)	95.2 (91.8; 97.2)	95.6 (92.3; 97.5)	94.4 (90.8; 96.6)								
	TOEP	None	94.8 (91.3; 96.9)	95.2 (91.8; 97.2)	94.4 (90.8; 96.6)	94.8 (91.3; 96.9)								
		Int. only												
		VC												
		CS												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{TOEP}$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	TOEP	CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												
	UN	None	96.4 (93.3; 98.1)	95.2; 91.8; 97.2)	96.8 (93.8; 98.4)	93.2 (89.4; 95.7)								
		Int. only												
		VC												
		CS												
		CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{TOEP}$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	VC	None	95.4 (92.0; 97.4)	92.5 (88.5; 95.2)	95.4 (92.0; 97.4)	93.8 (90.0; 96.2)								
		Int. only	96.1 (92.7; 97.9)	96.1 (92.7; 97.9)	93.9 (90.0; 96.3)	93.3 (90.6; 96.7)								
		VC	94.0 (90.2; 96.4)	94.8 (91.2; 97.0)	96.1 (92.8; 98.0)	94.4 (90.7; 96.7)								
		CS	94.0 (90.1; 96.5)	97.7 (94.7; 99.0)	93.1 (89.0; 95.8)	95.4 (91.8; 97.5)								
		CSH	96.6 (93.3; 98.2)	95.3 (91.7; 97.3)	97.0 (93.9; 98.5)	95.3 (91.7; 97.3)								
		AR(1)												
		ARH(1)	96.1 (92.7; 97.9)	97.0 (93.9; 98.5)	96.5 (93.3; 98.2)	96.1 (92.7; 97.9)								
		TOEP												
		UN	94.5 (90.8; 96.8)	96.6 (93.5; 98.3)	94.9 (91.4; 97.1)	95.4 (91.9; 97.4)								
		CS	95.6 (92.1; 97.6)	93.8 (89.9; 96.3)	96.0 (92.6; 97.9)	94.3 (90.5; 96.6)								
		Int. only												
		VC												
		CS												
		CSH	96.4 (93.1; 98.2)	95.5 (92.0; 97.6)	94.6 (90.9; 96.9)	96.0 (92.5; 97.9)								
		AR(1)												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{TOEP}$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	CS	ARH(1)												
		TOEP												
		UN												
	CSH	None	96.1 (92.7; 97.9)	94.8 (91.1; 97.0)	95.7 (92.2; 97.6)	95.7 (92.2; 97.6)								
		Int. only												
		VC												
		CS												
		CSH	95.5 (92.1; 97.5)	94.7 (91.1; 96.9)	94.7 (91.1; 96.9)	92.2 (88.1; 94.9)								
		AR(1)												
		ARH(1)	95.1 (91.6; 97.2)	94.7 (91.1; 96.9)	95.9 (92.7; 97.8)	95.1 (91.6; 97.2)								
		TOEP												
		UN	95.9 (92.6; 97.8)	95.1 (91.6; 97.2)	95.9 (92.6; 97.8)	95.1 (91.6; 97.2)								
	AR(1)	None	95.6 (92.3; 97.5)	94.8 (91.3; 96.9)	94.4 (90.8; 96.6)	97.2 (94.3; 98.6)								
		Int. only	98.3 (95.6; 99.3)	96.5 (93.3; 98.2)	95.7 (92.2; 97.6)	95.7 (92.2; 97.6)								
		VC	96.2 (92.9; 98.0)	95.7 (92.3; 97.7)	94.9 (91.5; 97.0)	97.0 (94.0; 98.5)								
		CS												
		CSH	98.6 (96.1; 99.5)	97.7 (96.1; 99.5)	98.6 (96.1; 99.5)	96.8 (93.6; 98.5)								

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{TOEP}$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	AR(1)	AR(1)												
		ARH(1)	96.7 (93.3; 98.4)	96.2 (92.7; 98.1)	96.2 (92.7; 98.1)	96.7 (93.3; 98.4)								
		TOEP												
		UN	98.3 (95.7; 99.3)	96.2 (92.9; 98.0)	97.0 (94.0; 98.6)	96.6 (93.4; 98.3)								
	ARH(1)	None	95.9 (92.7; 97.8)	94.7 (91.1; 96.9)	94.7 (91.1; 96.9)	96.3 (93.2; 98.1)								
		Int. only												
		VC	96.5 (93.3; 98.2)	95.2 (91.7; 97.3)	95.2 (91.7; 97.3)	94.8 (91.1; 97.0)								
		CS												
		CSH	96.2 (92.9; 98.0)	94.4 (90.7; 96.7)	97.4 (94.5; 98.8)	94.9 (91.3; 97.0)								
		AR(1)												
		ARH(1)	96.2 (93.0; 98.0)	97.5 (94.6; 98.8)	96.7 (93.5; 98.3)	97.9 (95.2; 99.1)								
		TOEP												
		UN	95.0 (91.5; 97.1)	94.2 (90.5; 96.5)	97.9 (95.2; 99.1)	94.6 (91.0; 96.8)								
	TOEP	None	97.1 (94.2; 98.6)	95.9 (92.7; 97.8)	96.3 (93.2; 98.1)	95.1 (91.6; 97.2)								
		Int. only												
		VC												
		CS												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{TOEP}$												
		Σ	CS				CSH				AR(1)			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	TOEP	CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												
	UN	None	97.1 (94.2; 98.6)	95.9 (92.6; 97.8)	97.9 (95.3; 99.1)	95.5 (92.1; 97.5)								
		Int. only												
		VC												
		CS												
		CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{TOEP}$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	VC	None					95.1 (91.6; 97.2)	92.6 (88.6; 95.3)	95.5 (92.1; 97.5)	93.9 (90.1; 96.2)				
		Int. only					96.3 (93.1; 98.0)	97.5 (94.7; 98.9)	94.7 (91.1; 96.9)	95.5 (92.1; 97.5)				
		VC					94.2 (90.5; 96.5)	94.6 (91.0; 96.8)	96.3 (93.1; 98.0)	95.0 (91.5; 97.1)				
		CS					94.3 (90.6; 96.7)	97.8 (95.0; 99.1)	93.5 (89.5; 96.0)	95.7 (92.2; 97.6)				
		CSH					96.7 (93.6; 98.3)	95.5 (92.1; 97.5)	97.5 (94.7; 98.9)	95.5 (92.1; 97.5)				
		AR(1)												
		ARH(1)					96.3 (93.1; 98.1)	97.1 (94.2; 98.6)	96.7 (93.7; 98.3)	96.3 (93.1; 98.1)				
		TOEP												
		UN					94.8 (91.2; 96.9)	96.8 (93.8; 98.4)	95.2 (91.7; 97.2)	95.2 (91.7; 97.2)				
	CS	None					95.9 (92.7; 97.8)	94.7 (91.2; 96.9)	96.3 (93.2; 98.1)	94.7 (91.2; 96.9)				
		Int. only												
		VC												
		CS												
		CSH					97.1 (94.1; 98.6)	96.7 (93.5; 98.3)	95.4 (92.0; 97.4)	96.7 (93.5; 98.3)				
	AR(1)													

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{TOEP}$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	CS	ARH(1)												
		TOEP												
		UN												
	CSH	None					96.3 (93.1; 98.1)	94.3 (90.6; 96.6)	95.9 (92.6; 97.8)	95.9 (92.6; 97.8)				
		Int. only												
		VC												
		CS												
		CSH					96.1 (92.7; 97.9)	94.3 (90.6; 96.7)	94.8 (91.1; 97.0)	92.6 (88.5; 95.3)				
		AR(1)												
		ARH(1)					94.1 (90.3; 96.4)	94.5 (90.8; 96.8)	94.9 (91.3; 97.1)	94.9 (91.3; 97.1)				
		TOEP												
		UN					95.4 (92.0; 97.4)	94.6 (91.0; 96.8)	96.7 (93.6; 98.3)	95.0 (91.5; 97.1)				
	AR(1)	None					96.1 (92.7; 97.9)	94.8 (91.1; 97.0)	94.8 (91.1; 97.0)	97.4 (94.4; 98.8)				
		Int. only					98.4 (95.9; 99.4)	96.7 (93.7; 98.3)	95.9 (92.7; 97.8)	95.9 (92.7; 97.8)				
		VC					96.3 (93.1; 98.1)	95.9 (92.6; 97.8)	95.1 (91.6; 97.2)	97.1 (94.2; 98.6)				
		CS												
		CSH					98.8 (96.5; 99.6)	97.6 (94.8; 98.9)	98.8 (96.5; 99.6)	97.6 (94.8; 98.9)				

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{TOEP}$												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	AR(1)	AR(1)												
		ARH(1)					96.8 (93.8; 98.4)	96.8 (93.8; 98.4)	96.8 (93.8; 98.4)	97.2 (94.3; 98.6)				
		TOEP												
		UN					98.4 (95.9; 99.4)	96.4 (93.3; 98.1)	97.2 (94.3; 98.6)	96.8 (93.8; 98.4)				
	ARH(1)	None					95.7 (92.3; 97.6)	94.4 (90.7; 96.7)	94.4 (90.7; 96.7)	96.1 (92.8; 98.0)				
		Int. only												
		VC					96.7 (93.7; 98.3)	95.5 (92.1; 97.5)	95.5 (92.1; 97.5)	95.1 (91.6; 97.2)				
		CS												
		CSH					95.9 (92.5; 97.7)	94.6 (91.0; 96.8)	97.5 (94.7; 98.9)	95.0 (91.5; 97.1)				
		AR(1)												
		ARH(1)					96.3 (93.1; 98.1)	97.5 (94.7; 98.9)	96.7 (93.7; 98.3)	98.0 (95.3; 99.1)				
		TOEP												
		UN					95.2 (91.7; 97.2)	94.4 (90.8; 96.6)	98.0 (95.4; 99.1)	94.8 (91.2; 96.9)				
	TOEP	None					97.5 (94.6; 98.8)	96.6 (93.5; 98.3)	97.1 (94.1; 98.6)	95.4 (91.9; 97.4)				
		Int. only												
		VC												
		CS												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: ω_i = TOEP												
		Σ	ARH(1)				TOEP				UN			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	TOEP	CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												
	UN	None					97.2 (94.3; 98.6)	96.0 (92.7; 97.8)	98.0 (95.4; 99.1)	95.5 (92.2; 97.5)				
		Int. only												
		VC												
		CS												
		CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{UN}$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	VC	None	91.2 (87.0; 94.1)	90.0 (85.7; 93.1)	92.4 (88.4; 95.1)	92.4 (88.4; 95.1)								
		Int. only	94.4 (90.8; 96.6)	93.6 (89.9; 96.0)	91.6 (87.5; 94.4)	88.4 (83.8; 91.8)								
		VC	93.2 (89.4; 95.7)	90.0 (85.7; 93.1)	93.6 (89.9; 96.0)	92.0 (88.0; 94.8)								
		CS	94.0 (90.3; 96.3)	92.4 (88.4; 95.1)	91.2 (87.0; 94.1)	92.0 (88.0; 94.8)								
		CSH	94.0 (90.3; 96.3)	93.2 (89.4; 95.7)	95.6 (92.3; 97.5)	91.6 (87.5; 94.4)								
		AR(1)												
		ARH(1)	92.0; (88.0; 94.8)	89.2 (84.7; 92.5)	90.8 (86.6; 93.8)	88.8 (84.3; 92.1)								
		TOEP												
		UN	89.2 (84.7; 92.5)	90.8 (86.6; 93.8)	90.8 (86.6; 93.8)	92.4 (88.4; 95.1)								
	CS	None	93.6 (89.9; 96.0)	90.8 (86.6; 93.8)	90.8 (86.6; 93.8)	89.2 (84.7; 92.5)								
		Int. only												
		VC												
		CS												
		CSH	92.8 (88.9; 95.4)	92.0 (88.0; 94.8)	92.0 (88.0; 94.8)	90.8 (86.6; 93.8)								
		AR(1)												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{UN}$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	CS	ARH(1)												
		TOEP												
		UN												
	CSH	None	91.2 (87.0; 94.1)	91.2 (87.0; 94.1)	92.0 (88.0; 94.8)	88.0 (83.4; 91.5)								
		Int. only												
		VC												
		CS												
		CSH	92.4 (88.4; 95.1)	93.2 (89.4; 95.7)	93.2 (89.4; 95.7)	90.4 (86.1; 93.5)								
		AR(1)												
		ARH(1)	94.8 (91.3; 96.9)	92.8 (88.9; 95.4)	93.6 (89.9; 96.0)	94.4 (90.8; 96.6)								
		TOEP												
		UN	92.8 (88.9; 95.4)	92.4 (88.4; 95.1)	94.8 (91.3; 96.9)	94.8 (91.3; 96.9)								
	AR(1)	None	94.8 (91.3; 96.9)	92.0 (88.0; 94.8)	92.4 (88.4; 95.1)	92.8 (88.9; 95.4)								
		Int. only	96.0 (92.8; 97.8)	94.8 (91.3; 96.9)	93.6 (89.9; 96.0)	93.6 (89.9; 96.0)								
		VC	93.6 (89.9; 96.0)	90.8 (86.6; 93.8)	90.8 (86.6; 93.8)	93.2 (89.4; 95.7)								
		CS												
		CSH	94.0 (90.3; 96.3)	92.0 (88.0; 94.8)	94.8 (91.3; 96.9)	94.0 (90.3; 96.3)								

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{UN}$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	AR(1)	AR(1)												
		ARH(1)	95.6 (92.3; 97.5)	93.6 (89.9; 96.0)	93.6 (89.9; 96.0)	94.8 (91.3; 96.9)								
		TOEP												
		UN	94.4 (90.8; 96.6)	93.6 (89.9; 96.0)	93.6 (89.9; 96.0)	92.0 (88.0; 94.8)								
	ARH(1)	None	92.0 (88.0; 94.8)	93.6 (89.9; 96.0)	92.0 (88.0; 94.8)	94.0 (90.3; 96.3)								
		Int. only												
		VC	91.6 (87.5; 94.4)	91.2 (87.0; 94.1)	94.0 (90.3; 96.3)	91.6 (87.5; 94.4)								
		CS												
		CSH	94.0 (90.3; 96.3)	91.2 (87.0; 94.1)	94.0 (90.3; 96.3)	92.4 (88.4; 95.1)								
		AR(1)												
		ARH(1)	93.2 (89.4; 95.7)	94.0 (90.3; 96.3)	94.4 (90.8; 96.6)	95.2 (91.8; 97.2)								
		TOEP												
		UN	93.6 (89.9; 96.0)	94.8 (91.3; 96.9)	93.2 (89.4; 95.7)	93.2 (89.4; 95.7)								
	TOEP	None	94.4 (90.8; 96.6)	91.6 (87.5; 94.4)	93.2 (89.4; 95.7)	92.4 (88.4; 95.1)								
		Int. only												
		VC												
		CS												

Appendix A3 (cont.): Coverage probabilities of the fitted model to the simulated model

		Assumed Model: $\omega_i = \text{UN}$												
		Σ	None				Int. only				VC			
		Fixed Effects	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age	Int.	Gender	Age	Gen_Age
True Modle	ω_i	Σ												
	TOEP	CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												
	UN	None	94.4 (90.8; 96.6)	94 (90.3; 96.3)	94.8 (91.3; 96.9)	94.8 (91.3; 96.9)								
		Int. only												
		VC												
		CS												
		CSH												
		AR(1)												
		ARH(1)												
		TOEP												
		UN												

[Remaining tables omitted as these model combinations with UN did not result in estimates, and therefore tables are empty]