

Supplementary Tables

		Correlations between the different domains*			
Subscale		0.7 / 0.7 / 0.7	0.7 / 0.6 / 0.7	0.7 / 0.5 / 0.7	0.7 / 0.4 / 0.7
1	Multivariate	0.197 (0.199)	0.197 (0.199)	0.197 (0.199)	0.197 (0.199)
	Separate	0.197 (0.201)	0.197 (0.201)	0.197 (0.201)	0.197 (0.201)
2	Multivariate	0.395 (0.199)	0.395 (0.199)	0.395 (0.199)	0.395 (0.199)
	Separate	0.395 (0.198)	0.395 (0.198)	0.395 (0.198)	0.395 (0.198)
3	Multivariate	0.091 (0.199)	0.090 (0.199)	0.090 (0.199)	0.090 (0.199)
	Separate	0.091 (0.202)	0.090 (0.202)	0.090 (0.202)	0.090 (0.202)

Table S1: Results of the cross-sectional simulation study with scenario's with different correlations between the subscales (n=100); *correlation subscale 1 and subscale 2 / correlation subscale 1 and subscale 3 / correlation subscale 2 and subscale 3.

		Standard deviation of the different subscales*				
Subscale		1 / 1.1 / 1	1 / 1.2 / 1	1 / 1.3 / 1	1 / 1.4 / 1	1 / 1.5 / 1
1	Multivariate	0.197 (0.205)	0.197 (0.212)	0.197 (0.220)	0.197 (0.227)	0.197 (0.235)
	Separate	0.197 (0.201)	0.197 (0.201)	0.197 (0.201)	0.197 (0.201)	0.197 (0.201)
2	Multivariate	0.434 (0.205)	0.474 (0.212)	0.513 (0.220)	0.553 (0.227)	0.592 (0.235)
	Separate	0.434 (0.218)	0.474 (0.237)	0.513 (0.257)	0.553 (0.277)	0.592 (0.297)
3	Multivariate	0.091 (0.205)	0.091 (0.212)	0.091 (0.220)	0.091 (0.227)	0.091 (0.235)
	Separate	0.091 (0.202)	0.091 (0.202)	0.091 (0.202)	0.091 (0.202)	0.091 (0.202)

Table S2: Results of the cross-sectional simulation study with scenario's with different standard deviations of the subscales (n=100); *standard deviation subscale 1 / standard deviation subscale 2 / standard deviation subscale 3.

		Standard deviation of the different subscales*				
Subscale		1 / 1.1 / 1	1 / 1.2 / 1	1 / 1.3 / 1	1 / 1.4 / 1	1 / 1.5 / 1
1	Multivariate	0.200 (0.145)	0.200 (0.150)	0.200 (0.155)	0.200 (0.161)	0.200 (0.166)
	Separate	0.200 (0.141)	0.200 (0.141)	0.200 (0.141)	0.200 (0.141)	0.200 (0.141)
2	Multivariate	0.442 (0.145)	0.482 (0.150)	0.522 (0.155)	0.562 (0.161)	0.602 (0.166)
	Separate	0.442 (0.153)	0.482 (0.167)	0.522 (0.181)	0.562 (0.195)	0.602 (0.209)
3	Multivariate	0.103 (0.145)	0.103 (0.150)	0.103 (0.155)	0.103 (0.161)	0.103 (0.166)
	Separate	0.103 (0.142)	0.103 (0.142)	0.103 (0.142)	0.103 (0.142)	0.103 (0.142)

Table S3: Results of the cross-sectional simulation study with scenario's with different standard deviations of the subscale ((n=200); *standard deviation subscale 1/ standard deviation subscale 2/ standard deviation subscale 3.

		Percentage of subjects in the different subscales*			
Subscale		Full data	0 / 10 / 20	0 / 20 / 30	0 / 30 / 40
1	Multivariate	0.197 (0.199)	0.186 (0.198)	0.201 (0.198)	0.192 (0.198)

	Separate	0.197 (0.201)	0.186 (0.200)	0.201 (0.200)	0.192 (0.201)
2	Multivariate	0.395 (0.199)	0.388 (0.203)	0.407 (0.209)	0.395 (0.217)
	Separate	0.395 (0.198)	0.387 (0.208)	0.405 (0.222)	0.396 (0.237)
3	Multivariate	0.091 (0.199)	0.091 (0.209)	0.101 (0.216)	0.094 (0.226)
	Separate	0.091 (0.202)	0.083 (0.226)	0.106 (0.242)	0.096 (0.262)

Table S4: Results of the cross-sectional simulation study with scenario's with datasets with MCAR missing data; *percentage missing subscale 1 / percentage missing subscale 2 / percentage missing subscale 3.

		Percentage of subjects in the different subscales**			
Subscale		Full data	0 / 10 / 20	0 / 20 / 30	0 / 30 / 40
1	Multivariate	0.197 (0.199)	0.199 (0.199)	0.203 (0.201)	0.191 (0.200)
	Separate	0.197 (0.201)	0.199 (0.200)	0.203 (0.201)	0.191 (0.201)
2	Multivariate	0.395 (0.199)	0.397 (0.202)	0.410 (0.209)	0.408 (0.213)
	Separate	0.395 (0.198)	0.400 (0.206)	0.417 (0.220)	0.422 (0.230)
3	Multivariate	0.091 (0.199)	0.096 (0.207)	0.109 (0.213)	0.101 (0.219)
	Separate	0.091 (0.202)	0.101 (0.204)	0.108 (0.237)	0.106 (0.251)

Table S5: Results of the cross-sectional simulation study with scenario's with datasets with MAR*Missing data; *Missing in the 75% lowest values of the subscale; **Percentage missing subscale 1 / percentage missing subscale 2 / percentage missing subscale 3.

Scenario 1	Factor	Complete		MCAR*		MAR*	
		Multivariate	Separate	Multivariate	Separate	Multivariate	Separate
1	1	0.21 (0.09) 0.10 (0.09)	0.21 (0.09) 0.10 (0.09)	0.21 (0.11) 0.11 (0.12)	0.21 (0.11) 0.11 (0.12)	0.22 (0.09) 0.10 (0.10)	0.22 (0.10) 0.12 (0.11)
	2	0.16 (0.09) 0.42 (0.09)	0.16 (0.09) 0.42 (0.09)	0.16 (0.11) 0.42 (0.12)	0.16 (0.11) 0.42 (0.11)	0.16 (0.09) 0.44 (0.10)	0.16 (0.09) 0.46 (0.10)
	3	0.14 (0.09) 0.12 (0.09)	0.14 (0.09) 0.12 (0.09)	0.14 (0.11) 0.12 (0.12)	0.14 (0.11) 0.12 (0.12)	0.14 (0.12) 0.09 (0.10)	0.15 (0.10) 0.12 (0.11)
2	1	0.21 (0.09) 0.10 (0.09)	0.21 (0.09) 0.10 (0.09)	0.21 (0.11) 0.11 (0.11)	0.21 (0.11) 0.11 (0.12)	0.22 (0.10) 0.11 (0.11)	0.23 (0.10) 0.12 (0.11)
	2	0.16 (0.09) 0.42 (0.09)	0.16 (0.09) 0.42 (0.09)	0.16 (0.11) 0.42 (0.11)	0.16 (0.11) 0.42 (0.11)	0.16 (0.10) 0.44 (0.11)	0.16 (0.09) 0.45 (0.10)
	3	0.14 (0.09) 0.12 (0.09)	0.14 (0.09) 0.12 (0.09)	0.14 (0.11) 0.12 (0.11)	0.14 (0.11) 0.12 (0.12)	0.15 (0.10) 0.12 (0.11)	0.15 (0.10) 0.12 (0.11)
3	1	0.21 (0.09) 0.10 (0.09)	0.21 (0.09) 0.10 (0.09)	0.21 (0.11) 0.11 (0.11)	0.21 (0.11) 0.11 (0.12)	0.22 (0.10) 0.11 (0.10)	0.23 (0.10) 0.11 (0.11)
	2	0.16 (0.09) 0.42 (0.09)	0.16 (0.09) 0.42	0.16 (0.11) 0.42 (0.11)	0.16 (0.11) 0.42	0.16 (0.10) 0.45 (0.10)	0.17 (0.10) 0.45

			(0.09)		(0.12)		(0.11)
	3	0.14 (0.09) 0.12 (0.09)	0.14 (0.09) 0.12 (0.09)	0.14 (0.11) 0.12 (0.11)	0.14 (0.11) 0.12 (0.12)	0.15 (0.10) 0.12 (0.10)	0.15 (0.10) 0.12 (0.11)
4	1	0.21 (0.09) 0.10 (0.09)	0.21 (0.09) 0.10 (0.09)	0.21 (0.10) 0.11 (0.10)	0.21 (0.11) 0.11 (0.12)	0.22 (0.09) 0.10 (0.10)	0.22 (0.10) 0.11 (0.11)
	2	0.16 (0.09) 0.42 (0.09)	0.16 (0.09) 0.42 (0.09)	0.16 (0.10) 0.42 (0.10)	0.16 (0.11) 0.42 (0.12)	0.16 (0.09) 0.44 (0.10)	0.16 (0.09) 0.45 (0.10)
	3	0.14 (0.09) 0.12 (0.09)	0.14 (0.09) 0.12 (0.09)	0.14 (0.10) 0.12 (0.10)	0.14 (0.11) 0.12 (0.12)	0.15 (0.09) 0.12 (0.10)	0.15 (0.10) 0.12 (0.11)

Table S6: Results of the longitudinal simulation study regarding the development over time for different scenario's (see Table 1); *25% missing at the second measurement and 50% missing at the third measurement.

Scenario 2	Factor	Complete		MCAR*		MAR*	
		Multivariate	Separate	Multivariate	Separate	Multivariate	Separate
1	1	0.21 (0.09) 0.10 (0.09)	0.21 (0.09) 0.10 (0.09)	0.21 (0.11) 0.11 (0.11)	0.21 (0.11) 0.11 (0.12)	0.22 (0.10) 0.11 (0.11)	0.23 (0.10) 0.11 (0.11)
	2	0.16 (0.09) 0.42 (0.09)	0.16 (0.09) 0.42 (0.09)	0.16 (0.11) 0.42 (0.11)	0.16 (0.11) 0.42 (0.11)	0.16 (0.10) 0.45 (0.11)	0.16 (0.09) 0.45 (0.10)
	3	0.14 (0.09) 0.12 (0.09)	0.14 (0.09) 0.12 (0.09)	0.14 (0.11) 0.12 (0.11)	0.14 (0.11) 0.12 (0.12)	0.15 (0.10) 0.12 (0.11)	0.15 (0.10) 0.12 (0.11)
2	1	0.21 (0.09) 0.10 (0.09)	0.21 (0.09) 0.10 (0.09)	0.21 (0.11) 0.11 (0.11)	0.21 (0.11) 0.11 (0.12)	0.22 (0.10) 0.11 (0.10)	0.22 (0.10) 0.11 (0.11)
	2	0.16 (0.09) 0.42 (0.09)	0.16 (0.09) 0.42 (0.09)	0.16 (0.11) 0.42 (0.11)	0.16 (0.11) 0.42 (0.11)	0.16 (0.10) 0.45 (0.10)	0.16 (0.09) 0.45 (0.11)
	3	0.14 (0.09) 0.12 (0.09)	0.14 (0.09) 0.12 (0.09)	0.14 (0.11) 0.12 (0.11)	0.14 (0.11) 0.12 (0.12)	0.15 (0.10) 0.12 (0.10)	0.15 (0.10) 0.12 (0.11)
3	1	0.21 (0.10) 0.10 (0.10)	0.21 (0.09) 0.10 (0.09)	0.21 (0.11) 0.11 (0.12)	0.21 (0.11) 0.11 (0.12)	0.23 (0.10) 0.13 (0.11)	0.22 (0.10) 0.11 (0.11)
	2	0.16 (0.10) 0.42 (0.10)	0.16 (0.09) 0.42 (0.09)	0.16 (0.11) 0.42 (0.12)	0.16 (0.11) 0.42 (0.11)	0.17 (0.10) 0.46 (0.11)	0.16 (0.10) 0.45 (0.10)
	3	0.14 (0.10) 0.12 (0.10)	0.14 (0.09) 0.12 (0.09)	0.14 (0.11) 0.12 (0.12)	0.14 (0.11) 0.12 (0.12)	0.15 (0.10) 0.14 (0.11)	0.15 (0.10) 0.12 (0.11)
4	1	0.21 (0.09)	0.21	0.21 (0.10)	0.21	0.22 (0.09)	0.22

		0.10 (0.09)	(0.09) 0.10 (0.09)	0.11 (0.10)	(0.11) 0.11 (0.12)	0.10 (0.10)	(0.10) 0.11 (0.11)
	2	0.16 (0.09) 0.42 (0.09)	0.16 (0.09) 0.42 (0.09)	0.16 (0.10) 0.42 (0.10)	0.16 (0.11) 0.42 (0.11)	0.16 (0.09) 0.44 (0.10)	0.16 (0.09) 0.46 (0.10)
	3	0.14 (0.09) 0.12 (0.09)	0.14 (0.09) 0.12 (0.09)	0.14 (0.10) 0.12 (0.10)	0.14 (0.11) 0.12 (0.12)	0.15 (0.09) 0.12 (0.10)	0.15 (0.10) 0.12 (0.11)

Table S7: Results of the longitudinal simulation study regarding the development over time for different scenario's (see Table 1); * 25% missing at the second measurement and 50% missing at the third measurement.

Scenario 3	Factor	Complete		MCAR*		MAR*	
		Multivariate	Separate	Multivariate	Separate	Multivariate	Separate
1	1	0.21 (0.09) 0.10 (0.09)	0.21 (0.08) 0.10 (0.08)	0.21 (0.11) 0.11 (0.12)	0.21 (0.09) 0.11 (0.10)	0.23 (0.10) 0.13 (0.11)	0.23 (0.08) 0.12 (0.09)
	2	0.16 (0.09) 0.42 (0.09)	0.16 (0.09) 0.41 (0.09)	0.16 (0.11) 0.42 (0.12)	0.16 (0.11) 0.42 (0.11)	0.16 (0.10) 0.45 (0.11)	0.16 (0.09) 0.45 (0.10)
	3	0.15 (0.09) 0.12 (0.09)	0.15 (0.10) 0.12 (0.10)	0.14 (0.11) 0.12 (0.12)	0.14 (0.12) 0.12 (0.13)	0.14 (0.10) 0.10 (0.11)	0.15 (0.11) 0.12 (0.12)
2	1	0.21 (0.09) 0.10 (0.09)	0.21 (0.08) 0.10 (0.08)	0.21 (0.11) 0.11 (0.11)	0.21 (0.09) 0.11 (0.10)	0.23 (0.10) 0.13 (0.11)	0.23 (0.08) 0.12 (0.09)
	2	0.16 (0.09) 0.42 (0.09)	0.16 (0.09) 0.42 (0.09)	0.16 (0.11) 0.42 (0.11)	0.16 (0.11) 0.42 (0.11)	0.16 (0.10) 0.45 (0.11)	0.16 (0.09) 0.45 (0.10)
	3	0.15 (0.09) 0.12 (0.09)	0.15 (0.10) 0.12 (0.10)	0.14 (0.11) 0.12 (0.11)	0.14 (0.12) 0.12 (0.13)	0.14 (0.10) 0.10 (0.11)	0.15 (0.11) 0.12 (0.12)
3	1	0.21 (0.09) 0.10 (0.09)	0.21 (0.08) 0.10 (0.08)	0.21 (0.11) 0.11 (0.11)	0.21 (0.09) 0.11 (0.10)	0.23 (0.10) 0.13 (0.10)	0.23 (0.08) 0.11 (0.09)
	2	0.16 (0.09) 0.42 (0.09)	0.16 (0.09) 0.42 (0.09)	0.16 (0.11) 0.42 (0.11)	0.16 (0.11) 0.42 (0.11)	0.16 (0.10) 0.45 (0.10)	0.16 (0.09) 0.45 (0.10)
	3	0.15 (0.09) 0.12 (0.09)	0.15 (0.10) 0.12 (0.10)	0.14 (0.11) 0.12 (0.11)	0.14 (0.12) 0.12 (0.13)	0.14 (0.10) 0.10 (0.10)	0.15 (0.11) 0.12 (0.12)
4	1	0.21 (0.09) 0.10 (0.09)	0.21 (0.08) 0.10 (0.08)	0.21 (0.10) 0.11 (0.11)	0.21 (0.09) 0.11 (0.10)	0.23 (0.09) 0.13 (0.10)	0.22 (0.08) 0.11 (0.09)
	2	0.16 (0.09) 0.42 (0.09)	0.16 (0.09) 0.42	0.16 (0.10) 0.42 (0.11)	0.16 (0.11) 0.42	0.16 (0.09) 0.44 (0.10)	0.16 (0.09) 0.45

			(0.09)		(0.11)		(0.10)
	3	0.14 (0.09) 0.12 (0.09)	0.14 (0.10) 0.12 (0.10)	0.14 (0.10) 0.12 (0.11)	0.14 (0.12) 0.12 (0.13)	0.14 (0.09) 0.09 (0.10)	0.15 (0.11) 0.12 (0.12)

Table S8: Results of the longitudinal simulation study regarding the development over time for different scenario's (see Table 1); *25% missing at the second measurement and 50% missing at the third measurement.

Scenario 4	Factor	Complete		MCAR*		MAR*	
		Multivariate	Separate	Multivariate	Separate	Multivariate	Separate
1	1	0.21 (0.09) 0.10 (0.09)	0.21 (0.08) 0.10 (0.08)	0.21 (0.11) 0.11 (0.11)	0.21 (0.09) 0.11 (0.10)	0.23 (0.10) 0.13 (0.11)	0.23 (0.08) 0.12 (0.09)
	2	0.16 (0.09) 0.42 (0.09)	0.16 (0.09) 0.42 (0.09)	0.16 (0.11) 0.42 (0.11)	0.16 (0.11) 0.42 (0.11)	0.16 (0.10) 0.45 (0.11)	0.16 (0.09) 0.46 (0.10)
	3	0.14 (0.09) 0.12 (0.09)	0.14 (0.10) 0.12 (0.10)	0.14 (0.11) 0.12 (0.11)	0.14 (0.12) 0.12 (0.13)	0.14 (0.10) 0.11 (0.11)	0.15 (0.11) 0.13 (0.12)
2	1	0.21 (0.09) 0.10 (0.09)	0.21 (0.08) 0.10 (0.08)	0.21 (0.11) 0.11 (0.11)	0.21 (0.09) 0.11 (0.10)	0.23 (0.10) 0.12 (0.11)	0.23 (0.08) 0.11 (0.09)
	2	0.16 (0.09) 0.42 (0.09)	0.16 (0.09) 0.41 (0.09)	0.16 (0.11) 0.42 (0.11)	0.16 (0.11) 0.42 (0.11)	0.16 (0.10) 0.45 (0.10)	0.16 (0.09) 0.45 (0.10)
	3	0.14 (0.09) 0.12 (0.09)	0.14 (0.10) 0.12 (0.10)	0.14 (0.11) 0.12 (0.11)	0.14 (0.12) 0.12 (0.13)	0.14 (0.10) 0.10 (0.10)	0.15 (0.11) 0.12 (0.12)
3	1	0.21 (0.10) 0.10 (0.10)	0.21 (0.08) 0.10 (0.08)	0.21 (0.11) 0.11 (0.12)	0.21 (0.09) 0.11 (0.10)	0.24 (0.10) 0.15 (0.11)	0.22 (0.08) 0.11 (0.09)
	2	0.16 (0.10) 0.42 (0.10)	0.16 (0.09) 0.42 (0.09)	0.16 (0.11) 0.42 (0.12)	0.16 (0.11) 0.42 (0.11)	0.16 (0.10) 0.46 (0.11)	0.16 (0.09) 0.45 (0.10)
	3	0.15 (0.10) 0.12 (0.10)	0.14 (0.10) 0.12 (0.10)	0.14 (0.11) 0.12 (0.12)	0.14 (0.12) 0.12 (0.13)	0.14 (0.10) 0.12 (0.11)	0.15 (0.11) 0.12 (0.12)
4	1	0.21 (0.09) 0.10 (0.09)	0.21 (0.08) 0.10 (0.08)	0.21 (0.10) 0.11 (0.11)	0.21 (0.09) 0.11 (0.10)	0.23 (0.09) 0.13 (0.10)	0.23 (0.08) 0.11 (0.09)
	2	0.16 (0.09) 0.42 (0.09)	0.16 (0.09) 0.42 (0.09)	0.16 (0.10) 0.42 (0.11)	0.16 (0.11) 0.42 (0.11)	0.16 (0.09) 0.44 (0.10)	0.16 (0.09) 0.45 (0.10)
	3	0.14 (0.09) 0.12 (0.09)	0.14 (0.10) 0.12 (0.10)	0.14 (0.10) 0.12 (0.11)	0.14 (0.12) 0.12 (0.13)	0.14 (0.09) 0.09 (0.10)	0.15 (0.11) 0.13 (0.12)

Table S9: Results of the longitudinal simulation study regarding the development over time for different scenario's (see Table 1); *25% missing at the second measurement and 50% missing at the third measurement.

Scenario 1	Factor	Complete		MCAR*		MAR*	
		Multivariate	Separate	Multivariate	Separate	Multivariate	Separate
1	1	-0.157 (0.170)	-0.157 (0.169)	-0.140 (0.174)	-0.140 (0.174)	-0.165 (0.174)	-0.165 (0.174)
	2	-0.030 (0.170)	-0.030 (0.169)	-0.029 (0.174)	-0.029 (0.173)	-0.035 (0.174)	-0.035 (0.174)
	3	-0.077 (0.170)	-0.077 (0.170)	-0.061 (0.174)	-0.061 (0.175)	-0.076 (0.174)	-0.076 (0.174)
2	1	-0.156 (0.169)	-0.156 (0.169)	-0.141 (0.174)	-0.139 (0.174)	-0.165 (0.174)	-0.166 (0.173)
	2	-0.030 (0.169)	-0.030 (0.169)	-0.027 (0.174)	-0.027 (0.171)	-0.034 (0.174)	-0.035 (0.174)
	3	-0.077 (0.169)	-0.077 (0.170)	-0.059 (0.174)	-0.060 (0.175)	-0.078 (0.174)	-0.078 (0.174)
3	1	-0.156 (0.170)	-0.156 (0.169)	-0.140 (0.173)	-0.139 (0.174)	-0.167 (0.173)	-0.167 (0.173)
	2	-0.028 (0.170)	-0.028 (0.167)	-0.025 (0.173)	-0.027 (0.171)	-0.039 (0.173)	-0.039 (0.172)
	3	-0.077 (0.170)	-0.077 (0.170)	-0.060 (0.173)	-0.060 (0.175)	-0.082 (0.173)	-0.082 (0.174)
4	1	-0.155 (0.170)	-0.155 (0.169)	-0.141 (0.174)	-0.140 (0.174)	-0.165 (0.173)	-0.165 (0.173)
	2	-0.028 (0.170)	-0.028 (0.169)	-0.023 (0.174)	-0.024 (0.173)	-0.040 (0.173)	-0.040 (0.174)
	3	-0.077 (0.168)	-0.077 (0.170)	-0.060 (0.174)	-0.060 (0.175)	-0.084 (0.173)	-0.084 (0.174)

Table S10: Results of the longitudinal simulation study regarding the relationship with the time independent covariate for different scenario's (see Table 1); *25% missing at the second measurement and 50% missing at the third measurement.

Scenario 2	Factor	Complete		MCAR*		MAR*	
		Multivariate	Separate	Multivariate	Separate	Multivariate	Separate
1	1	-0.157 (0.170)	-0.157 (0.169)	-0.140 (0.174)	-0.140 (0.174)	-0.165 (0.174)	-0.165 (0.173)
	2	-0.029 (0.170)	-0.029 (0.169)	-0.029 (0.174)	-0.029 (0.173)	-0.035 (0.174)	-0.035 (0.174)
	3	-0.077 (0.170)	-0.077 (0.170)	-0.063 (0.174)	-0.063 (0.175)	-0.078 (0.174)	-0.078 (0.174)
2	1	-0.158 (0.170)	-0.158 (0.169)	-0.142 (0.174)	-0.142 (0.174)	-0.164 (0.174)	-0.164 (0.173)
	2	-0.031 (0.170)	-0.031 (0.169)	-0.028 (0.174)	-0.029 (0.173)	-0.034 (0.174)	-0.034 (0.174)
	3	-0.078 (0.170)	-0.078 (0.170)	-0.061 (0.174)	-0.061 (0.175)	-0.079 (0.174)	-0.080 (0.174)
3	1	-0.155 (0.163)	-0.155 (0.169)	-0.142 (0.169)	-0.141 (0.174)	-0.165 (0.168)	-0.166 (0.174)
	2	-0.028 (0.163)	-0.028 (0.169)	-0.026 (0.169)	-0.027 (0.173)	-0.038 (0.168)	-0.036 (0.174)
	3	-0.077 (0.163)	-0.077 (0.170)	-0.062 (0.169)	-0.061 (0.175)	-0.081 (0.168)	-0.081 (0.174)
4	1	-0.155 (0.168)	-0.155 (0.169)	-0.142 (0.173)	-0.140 (0.174)	-0.164 (0.171)	-0.166 (0.173)

	2	-0.028 (0.168)	-0.028 (0.169)	-0.023 (0.173)	-0.024 (0.173)	-0.040 (0.171)	-0.040 (0.174)
	3	-0.076 (0.168)	-0.077 (0.170)	-0.062 (0.173)	-0.061 (0.175)	-0.084 (0.171)	-0.085 (0.174)

Table S11: Results of the longitudinal simulation study regarding the relationship with the time independent covariate for different scenario's (see Table 1); *25% missing at the second measurement and 50% missing at the third measurement.

Scenario 3	Factor	Complete		MCAR*		MAR*	
		Multivariate	Separate	Multivariate	Separate	Multivariate	Separate
1	1	-0.156 (0.170)	-0.156 (0.177)	-0.141 (0.174)	-0.140 (0.179)	-0.164 (0.174)	-0.164 (0.180)
	2	-0.029 (0.170)	-0.029 (0.169)	-0.029 (0.174)	-0.030 (0.173)	-0.034 (0.174)	-0.034 (0.174)
	3	-0.077 (0.170)	-0.077 (0.162)	-0.063 (0.174)	-0.062 (0.169)	-0.074 (0.174)	-0.075 (0.168)
2	1	-0.156 (0.170)	-0.156 (0.177)	-0.141 (0.174)	-0.140 (0.179)	-0.166 (0.174)	-0.166 (0.180)
	2	-0.029 (0.170)	-0.029 (0.169)	-0.026 (0.174)	-0.027 (0.173)	-0.035 (0.174)	-0.035 (0.174)
	3	-0.077 (0.170)	-0.077 (0.162)	-0.060 (0.174)	-0.060 (0.169)	-0.075 (0.174)	-0.077 (0.167)
3	1	-0.157 (0.170)	-0.156 (0.177)	-0.140 (0.174)	-0.140 (0.179)	-0.166 (0.174)	-0.166 (0.180)
	2	-0.029 (0.170)	-0.029 (0.169)	-0.024 (0.174)	-0.026 (0.173)	-0.037 (0.174)	-0.037 (0.174)
	3	-0.077 (0.170)	-0.077 (0.162)	-0.059 (0.174)	-0.059 (0.169)	-0.079 (0.174)	-0.081 (0.168)
4	1	-0.154 (0.170)	-0.154 (0.177)	-0.140 (0.174)	-0.139 (0.179)	-0.165 (0.173)	-0.165 (0.180)
	2	-0.027 (0.170)	-0.027 (0.169)	-0.024 (0.174)	-0.025 (0.173)	-0.038 (0.173)	-0.039 (0.174)
	3	-0.076 (0.170)	-0.076 (0.162)	-0.061 (0.174)	-0.062 (0.169)	-0.082 (0.173)	-0.083 (0.168)

Table S12: Results of the longitudinal simulation study regarding the relationship with the time independent covariate for different scenario's (see Table 1); *25% missing at the second measurement and 50% missing at the third measurement.

Scenario 4	Factor	Complete		MCAR*		MAR*	
		Multivariate	Separate	Multivariate	Separate	Multivariate	Separate
1	1	-0.156 (0.170)	-0.156 (0.177)	-0.140 (0.174)	-0.140 (0.179)	-0.165 (0.174)	-0.165 (0.180)
	2	-0.029 (0.170)	-0.029 (0.169)	-0.029 (0.174)	-0.030 (0.173)	-0.034 (0.174)	-0.034 (0.174)
	3	-0.077 (0.170)	-0.077 (0.162)	-0.063 (0.174)	-0.063 (0.169)	-0.077 (0.174)	-0.077 (0.168)
2	1	-0.157 (0.170)	-0.157 (0.177)	-0.141 (0.174)	-0.140 (0.179)	-0.166 (0.174)	-0.166 (0.180)
	2	-0.030 (0.170)	-0.030 (0.169)	-0.026 (0.174)	-0.027 (0.173)	-0.034 (0.174)	-0.034 (0.174)
	3	-0.077 (0.170)	-0.077 (0.162)	-0.061 (0.174)	-0.061 (0.169)	-0.078 (0.174)	-0.078 (0.168)
3	1	-0.156 (0.163)	-0.156 (0.177)	-0.142 (0.169)	-0.141 (0.179)	-0.166 (0.168)	-0.165 (0.180)
	2	-0.028 (0.163)	-0.028 (0.169)	-0.025 (0.169)	-0.026 (0.176)	-0.039 (0.168)	-0.039 (0.174)
	3	-0.077 (0.163)	-0.077 (0.162)	-0.061 (0.169)	-0.061 (0.169)	-0.080 (0.168)	-0.081 (0.168)
4	1	-0.155	-0.155	-0.141	-0.139	-0.165	-0.166

		(0.168)	(0.177)	(0.173)	(0.179)	(0.172)	(0.180)
	2	-0.028 (0.168)	-0.028 (0.169)	-0.024 (0.173)	-0.025 (0.173)	-0.039 (0.172)	-0.039 (0.174)
	3	-0.076 (0.168)	-0.077 (0.162)	-0.063 (0.173)	-0.062 (0.169)	-0.082 (0.172)	-0.082 (0.168)

Table S13: Results of the longitudinal simulation study regarding the relationship with the time independent covariate for different scenario's (see Table 1); *25% missing at the second measurement and 50% missing at the third measurement.

Scenario 1	Factor	Complete		MCAR*		MAR*	
		Multivariate	Separate	Multivariate	Separate	Multivariate	Separate
1	1	0.092 (0.061)	0.109 (0.062)	0.116 (0.070)	0.136 (0.071)	0.103 (0.066)	0.123 (0.068)
	2	0.026 (0.061)	0.060 (0.064)	0.032 (0.070)	0.063 (0.072)	0.029 (0.066)	0.062 (0.069)
	3	0.058 (0.061)	0.081 (0.062)	0.080 (0.070)	0.103 (0.071)	0.068 (0.066)	0.093 (0.068)
2	1	0.090 (0.059)	0.109 (0.062)	0.112 (0.068)	0.136 (0.071)	0.099 (0.064)	0.122 (0.068)
	2	0.016 (0.059)	0.059 (0.064)	0.023 (0.068)	0.064 (0.072)	0.019 (0.064)	0.062 (0.069)
	3	0.053 (0.059)	0.081 (0.062)	0.074 (0.068)	0.103 (0.071)	0.062 (0.064)	0.093 (0.068)
3	1	0.092 (0.056)	0.109 (0.062)	0.111 (0.065)	0.135 (0.071)	0.099 (0.061)	0.122 (0.068)
	2	0.006 (0.056)	0.061 (0.064)	0.015 (0.065)	0.067 (0.073)	0.009 (0.061)	0.063 (0.069)
	3	0.049 (0.056)	0.080 (0.062)	0.069 (0.065)	0.102 (0.071)	0.056 (0.061)	0.093 (0.068)
4	1	0.095 (0.053)	0.109 (0.062)	0.109 (0.062)	0.135 (0.071)	0.101 (0.058)	0.122 (0.068)
	2	-0.002 (0.053)	0.058 (0.064)	0.009 (0.062)	0.065 (0.072)	0.004 (0.058)	0.062 (0.069)
	3	0.046 (0.053)	0.080 (0.062)	0.065 (0.062)	0.102 (0.071)	0.055 (0.058)	0.094 (0.068)

Table S14: Results of the longitudinal simulation study regarding the relationship with the time dependent covariate for different scenario's (see Table 1); *25% missing at the second measurement and 50% missing at the third measurement.

Scenario 2	Factor	Complete		MCAR*		MAR*	
		Multivariate	Separate	Multivariate	Separate	Multivariate	Separate
1	1	0.092 (0.061)	0.109 (0.062)	0.116 (0.069)	0.136 (0.071)	0.102 (0.066)	0.123 (0.068)
	2	0.025 (0.061)	0.060 (0.064)	0.031 (0.069)	0.064 (0.072)	0.027 (0.066)	0.061 (0.069)
	3	0.059 (0.061)	0.083 (0.062)	0.080 (0.069)	0.103 (0.071)	0.067 (0.066)	0.093 (0.068)
2	1	0.090 (0.059)	0.109 (0.062)	0.112 (0.067)	0.136 (0.071)	0.099 (0.064)	0.122 (0.068)
	2	0.015 (0.059)	0.060 (0.064)	0.022 (0.067)	0.064 (0.072)	0.018 (0.064)	0.061 (0.069)
	3	0.053 (0.059)	0.082 (0.062)	0.074 (0.067)	0.103 (0.071)	0.062 (0.064)	0.095 (0.068)
3	1	0.116 (0.059)	0.109 (0.062)	0.130 (0.067)	0.135 (0.071)	0.121 (0.063)	0.122 (0.068)
	2	0.020 (0.059)	0.059 (0.064)	0.029 (0.067)	0.065 (0.072)	0.023 (0.063)	0.061 (0.069)
	3	0.069 (0.059)	0.082 (0.062)	0.086 (0.067)	0.103 (0.071)	0.074 (0.063)	0.093 (0.068)

4	1	0.112 (0.058)	0.109 (0.062)	0.124 (0.065)	0.135 (0.071)	0.116 (0.062)	0.122 (0.068)
	2	0.015 (0.058)	0.058 (0.064)	0.024 (0.065)	0.066 (0.072)	0.019 (0.062)	0.062 (0.069)
	3	0.064 (0.058)	0.081 (0.062)	0.080 (0.065)	0.103 (0.071)	0.070 (0.062)	0.094 (0.068)

Table S15: Results of the longitudinal simulation study regarding the relationship with the time dependent covariate for different scenario's (see Table 1); *25% missing at the second measurement and 50% missing at the third measurement.

Scenario	Factor	Complete		MCAR*		MAR*	
		Multivariate	Separate	Multivariate	Separate	Multivariate	Separate
3	1	0.092 (0.061)	0.088 (0.059)	0.116 (0.070)	0.117 (0.068)	0.103 (0.066)	0.102 (0.065)
	2	0.026 (0.061)	0.060 (0.064)	0.031 (0.070)	0.063 (0.072)	0.028 (0.066)	0.061 (0.069)
	3	0.058 (0.061)	0.096 (0.064)	0.080 (0.070)	0.114 (0.073)	0.069 (0.066)	0.108 (0.070)
2	1	0.090 (0.059)	0.088 (0.059)	0.112 (0.068)	0.117 (0.068)	0.100 (0.064)	0.100 (0.065)
	2	0.016 (0.059)	0.059 (0.064)	0.022 (0.068)	0.064 (0.072)	0.019 (0.064)	0.062 (0.069)
	3	0.053 (0.059)	0.095 (0.064)	0.073 (0.068)	0.114 (0.073)	0.061 (0.064)	0.107 (0.070)
3	1	0.090 (0.056)	0.088 (0.059)	0.109 (0.065)	0.117 (0.068)	0.100 (0.061)	0.102 (0.064)
	2	0.006 (0.056)	0.059 (0.064)	0.014 (0.065)	0.064 (0.072)	0.011 (0.061)	0.063 (0.069)
	3	0.048 (0.056)	0.095 (0.064)	0.067 (0.065)	0.113 (0.073)	0.056 (0.061)	0.107 (0.070)
4	1	0.094 (0.053)	0.088 (0.059)	0.109 (0.062)	0.117 (0.068)	0.101 (0.058)	0.101 (0.064)
	2	-0.002 (0.053)	0.058 (0.064)	0.009 (0.062)	0.065 (0.072)	0.003 (0.058)	0.062 (0.069)
	3	0.046 (0.053)	0.094 (0.064)	0.064 (0.062)	0.113 (0.073)	0.053 (0.058)	0.106 (0.070)

Table S16: Results of the longitudinal simulation study regarding the relationship with the time dependent covariate for different scenario's (see Table 1); *25% missing at the second measurement and 50% missing at the third measurement.

Scenario	Factor	Complete		MCAR*		MAR*	
		Multivariate	Separate	Multivariate	Separate	Multivariate	Separate
1	1	0.092 (0.061)	0.088 (0.059)	0.115 (0.069)	0.117 (0.068)	0.103 (0.066)	0.101 (0.064)
	2	0.025 (0.061)	0.060 (0.064)	0.031 (0.069)	0.064 (0.072)	0.028 (0.066)	0.062 (0.069)
	3	0.059 (0.061)	0.097 (0.064)	0.080 (0.069)	0.115 (0.073)	0.067 (0.066)	0.107 (0.070)
2	1	0.090 (0.059)	0.088 (0.059)	0.112 (0.067)	0.117 (0.068)	0.100 (0.064)	0.101 (0.064)
	2	0.016 (0.059)	0.060 (0.064)	0.022 (0.067)	0.064 (0.072)	0.018 (0.064)	0.062 (0.069)
	3	0.054 (0.059)	0.097 (0.064)	0.073 (0.067)	0.114 (0.073)	0.062 (0.064)	0.107 (0.070)
3	1	0.116 (0.059)	0.089 (0.059)	0.130 (0.067)	0.117 (0.068)	0.122 (0.063)	0.100 (0.064)
	2	0.021 (0.059)	0.059 (0.064)	0.028 (0.067)	0.065 (0.072)	0.024 (0.064)	0.062 (0.069)

	3	0.070 (0.059)	0.096 (0.064)	0.086 (0.067)	0.114 (0.073)	0.074 (0.063)	0.107 (0.070)
4	1	0.112 (0.058)	0.088 (0.059)	0.124 (0.065)	0.117 (0.068)	0.117 (0.062)	0.100 (0.064)
	2	0.015 (0.058)	0.059 (0.064)	0.023 (0.065)	0.066 (0.072)	0.018 (0.062)	0.061 (0.069)
	3	0.064 (0.058)	0.096 (0.064)	0.079 (0.065)	0.113 (0.073)	0.068 (0.062)	0.107 (0.070)

Table S17: Results of the longitudinal simulation study regarding the relationship with the time dependent covariate for different scenario's (see Table 1); *25% missing at the second measurement and 50% missing at the third measurement.