Simulation Tables

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Table 1: Model results for simulated data with $n=1500,\,k=4,\,p=1,\,h=3,\,v=1.\,5000$ iterations were run with a burn in of 1000. Missingness mechanism was MAR and P(miss)=0

Model Component	Parameter	Class 1		Class 2		Class 3	
		True	Est. (95% CrI)	True	Est. (95% CrI)	True	Est. (95% CrI)
MVSN	β_0	-3.21	-3.34 (-3.8, -2.99)	-0.32	-0.33 (-0.48, -0.14)	3.35	3.33 (3.22, 3.44)
Regression	β_0 β_1	-3.08	-3.3 (-3.73, -2.87)	-0.32	-0.72 (-0.87, -0.52)	2.6	2.5 (2.39, 2.6)
Regression	β_2	-2.97	-3.18 (-3.58, -2.76)	-0.45	-0.44 (-0.58, -0.26)	3.43	3.42 (3.31, 3.53)
	β_3	-2.91	-3.08 (-3.49, -2.68)	-0.46	-0.68 (-0.83, -0.48)	3.04	2.98 (2.87, 3.09)
		1	0.05 (0.94, 1.09)	1	1 (0.00, 1.11)	1	1.00 (0.07, 1.10)
	σ_{11}	1	0.95 (0.84, 1.02)	1	1 (0.89, 1.11)	1	1.06 (0.97, 1.16)
	σ_{12}	0.74	$0.7 \ (0.59, 0.76)$	0.68	$0.68 \ (0.59, \ 0.78)$	-0.45	-0.41 (-0.47, -0.36
	σ_{13}	0.74	0.69 (0.58, 0.75)	-0.16	-0.13 (-0.2, -0.06)	0.82	0.88 (0.79, 0.97)
	σ_{14}	0.98	0.93 (0.81, 0.99)	0.64	$0.65 \ (0.56, \ 0.75)$	0.7	0.75 (0.67, 0.83)
	σ_{22}	1	$0.94 \ (0.82, \ 1.01)$	1	$1.03 \ (0.93, \ 1.13)$	1	$1.07 \ (0.99, 1.16)$
	σ_{23}	0.83	$0.79 \ (0.67, \ 0.85)$	-0.43	-0.4 (-0.46, -0.34)	-0.66	-0.62 (-0.68, -0.57
	σ_{24}	0.81	$0.77 \ (0.66, \ 0.83)$	0.63	$0.67 \ (0.58, \ 0.77)$	0.01	$0.07 \ (0.01, \ 0.13)$
	σ_{33}	1	$0.96 \ (0.84, 1.03)$	1	1 (0.91, 1.09)	1	$1.05 \ (0.96, \ 1.15)$
	σ_{34}	0.85	$0.81\ (0.69,\ 0.87)$	0.15	$0.15 \ (0.08, \ 0.23)$	0.59	$0.64 \ (0.56, \ 0.72)$
	σ_{44}	1	$0.95 \ (0.83, \ 1.01)$	1	$1.02 \ (0.92, \ 1.13)$	1	1.06 (0.97, 1.15)
	ψ_1	-0.33	-0.17 (-0.62, 0.39)	0.67	0.7 (0.46, 0.89)	-1	-1.01 (-1.13, -0.87
	ψ_2	-0.33	-0.08 (-0.61, 0.44)	0.67	0.63 (0.38, 0.82)	-1	-0.88 (-1.01, -0.75
	ψ_3	-0.33	-0.08 (-0.61, 0.39)	0.67	0.64 (0.43, 0.82)	-1	-1.01 (-1.14, -0.88
	ψ_4	-0.33	-0.13 (-0.63, 0.37)	0.67	0.7 (0.45, 0.89)	-1	-0.94 (-1.07, -0.81
Multinom.	δ_{11}	0.9	0.88 (0.81, 0.95)	0.9	0.88 (0.81, 0.95)	0.9	0.88 (0.81, 0.95)
	δ_{12}	0.23	$0.22 \ (0.14, \ 0.3)$	0.23	$0.22 \ (0.14, \ 0.3)$	0.23	0.22 (0.14, 0.3)
Clustering	π_l	0.28	0.28 (0.27, 0.28)	0.42	0.43 (0.42, 0.43)	0.3	0.3 (0.3, 0.3)