

Table 1

Real Data Analysis with Latent-Class-Dependent Missingness, 2000 burn-in and 5000 for analysis

	Parameter	Mean	S.D.	MCs.e.	$\frac{\text{MCs.e.}}{\text{S.D.}}$	2.5pct	97.5pct	Geweke t		
Growth Curve Parameters	Class 1 ^a	$\beta_1[1]$	25.162	0.167	0.010	0.060	24.830	25.490	-1.367	
		$\beta_1[2]$	1.126	0.037	0.002	0.054	1.054	1.198	1.608	
		$\Psi_1[11]$	5.444	0.675	0.029	0.043	4.255	6.889	1.438	
		$\Psi_1[22]$	0.184	0.031	0.002	0.065	0.126	0.247	1.165	
		$\Psi_1[12]$	-0.829	0.134	0.006	0.045	-1.108	-0.584	-1.847	
		ϕ_1	1.893	0.104	0.005	0.048	1.693	2.101	1.99	
	Class 2 ^b	$\beta_2[1]$	15.926	0.165	0.006	0.036	15.600	16.250	-1.060	
		$\beta_2[2]$	1.254	0.042	0.002	0.048	1.172	1.334	-1.712	
		$\Psi_2[11]$	15.869	1.109	0.052	0.047	13.800	18.190	-1.453	
		$\Psi_2[22]$	0.407	0.080	0.007	0.088	0.262	0.576	-2.920	
		$\Psi_2[12]$	0.799	0.211	0.015	0.071	0.374	1.202	1.424	
		ϕ_2	13.284	0.355	0.016	0.045	12.610	13.990	3.485	
	Probit Parameters	Class	φ_{10}^c	-0.246	0.113	0.012	0.106	-0.451	-0.03	3.866
			φ_{11}	-0.242	0.073	0.008	0.110	-0.376	-0.097	-3.666
Grade 7		γ_{01}^{*d}	-1.407	0.193	0.021	0.109	-1.833	-1.046	-0.259	
		γ_{11}^*	0.099	0.128	0.010	0.078	-0.142	0.353	0.658	
		γ_{x1}	-0.182	0.118	0.012	0.102	-0.413	0.082	-0.219	
Grade 8		γ_{02}^*	-2.173	0.201	0.021	0.104	-2.598	-1.835	1.521	
		γ_{12}^*	0.45	0.16	0.015	0.094	0.166	0.787	-1.382	
		γ_{x2}	0.082	0.104	0.010	0.096	-0.119	0.286	-0.63	
Grade 9		γ_{03}^*	-1.363	0.139	0.014	0.101	-1.629	-1.121	-0.581	
		γ_{13}^*	0.195	0.116	0.009	0.078	-0.031	0.419	-0.220	
		γ_{x3}	-0.132	0.089	0.009	0.101	-0.308	0.030	0.737	
Grade 10		γ_{04}^*	-1.615	0.173	0.019	0.110	-1.929	-1.274	1.354	
		γ_{14}^*	0.182	0.128	0.011	0.086	-0.069	0.421	-0.313	
		γ_{x4}	0.029	0.099	0.010	0.101	-0.172	0.231	-1.248	
Grade 11		γ_{05}^*	-1.490	0.161	0.017	0.106	-1.789	-1.187	4.255	
	γ_{15}^*	0.415	0.119	0.010	0.084	0.179	0.643	-0.883		
	γ_{x5}	-0.098	0.093	0.010	0.108	-0.285	0.093	-3.859		

^a The growth curve parameters for class 1. Specifically, $\beta[1]$: initial level; $\beta[2]$: slope; $\Psi[11]$: variance of initial level; $\Psi[22]$: variance of slope; $\Psi[12]$: covariance of initial level and slope; ϕ : variance of error.

^b The growth curve parameters for class 2.

^c The probit parameters of class proportion.

^d The probit parameters of missing data rate. Note that although the γ_{0t}^* and γ_{1t}^* here are different with the γ_{zt_1} and γ_{zt_2} , they are equivalent after re-parameterizing $\gamma_{0t}^* = \gamma_{zt_1}$ and $\gamma_{1t}^* = \gamma_{zt_2} - \gamma_{zt_1}$.

Table 2

A summary table of $N=500$, class proportion=50% 50%, and with MNAR missingness

	parameter	true	est. ^a	bias ^b	rl.bias ^c	se.emp ^d	se.avg ^e	MSE ^f	ci.l ^g	ci.u ^h	ci.cv ⁱ	hpd.l ^j	hpd.u ^k	hpd.cv ^l	
Growth Curve Parameters	Class 1	I ^m	25	25.025	0.025	0.001	0.185	0.185	0.069	24.662	25.391	0.94	24.653	25.375	0.94
		S ⁿ	1.1	1.089	-0.011	-0.01	0.047	0.046	0.004	0.995	1.177	0.96	0.997	1.178	0.97
		var(I)	6	5.922	-0.078	-0.013	0.771	0.737	1.145	4.61	7.494	0.94	4.529	7.383	0.94
		var(S)	0.2	0.227	0.027	0.134	0.038	0.042	0.004	0.152	0.317	0.91	0.147	0.311	0.94
		cov(IS)	-0.8	-0.813	-0.013	0.016	0.147	0.154	0.045	-1.14	-0.538	0.95	-1.119	-0.523	0.96
		var(e)	2	2	0	0	0.139	0.121	0.034	1.774	2.247	0.91	1.766	2.237	0.91
		I	16	15.986	-0.014	-0.001	0.35	0.362	0.253	15.284	16.701	0.96	15.273	16.683	0.96
	Class 2	S	1.3	1.307	0.007	0.005	0.097	0.095	0.019	1.12	1.495	0.96	1.119	1.492	0.96
		var(I)	16	15.929	-0.071	-0.004	2.433	2.604	12.722	11.284	21.472	0.94	11.018	21.114	0.94
		var(S)	0.4	0.455	0.055	0.138	0.122	0.158	0.044	0.205	0.815	0.99	0.179	0.767	0.99
		cov(IS)	0.8	0.778	-0.022	-0.028	0.474	0.467	0.446	-0.208	1.627	0.96	-0.158	1.666	0.97
		var(e)	13	13.044	0.044	0.003	0.786	0.779	1.223	11.591	14.643	0.96	11.527	14.561	0.95
	Probit Parameters	Wave 1	φ_{10}	-0.5	-0.505	-0.005	0.009	0.094	0.101	0.019	-0.705	-0.31	0.96	-0.701	-0.309
φ_{11}			0.5	0.507	0.007	0.015	0.075	0.071	0.011	0.371	0.649	0.94	0.369	0.646	0.95
Wave 2		γ_{01}^*	-1	-1.005	-0.005	0.005	0.208	0.219	0.093	-1.471	-0.607	0.97	-1.435	-0.59	0.97
		γ_{11}^*	0.3	0.288	-0.012	-0.039	0.254	0.261	0.134	-0.197	0.83	0.96	-0.212	0.797	0.96
		γ_{x1}	-1.05	-1.105	-0.055	0.052	0.137	0.142	0.042	-1.393	-0.836	0.96	-1.385	-0.831	0.95
Wave 3		γ_{02}^*	-1	-1.034	-0.034	0.034	0.211	0.199	0.087	-1.449	-0.67	0.93	-1.427	-0.66	0.95
		γ_{12}^*	0.34	0.391	0.051	0.149	0.243	0.23	0.116	-0.038	0.865	0.95	-0.049	0.843	0.97
		γ_{x2}	-0.75	-0.785	-0.035	0.046	0.112	0.112	0.026	-1.01	-0.571	0.92	-1.005	-0.568	0.93
Wave 4		γ_{03}^*	-1	-1.047	-0.047	0.047	0.169	0.177	0.062	-1.408	-0.714	0.95	-1.394	-0.706	0.95
		γ_{13}^*	0.37	0.39	0.02	0.054	0.208	0.203	0.085	0.003	0.799	0.93	-0.001	0.788	0.94
		γ_{x3}	-0.55	-0.555	-0.005	0.009	0.091	0.096	0.017	-0.747	-0.37	0.96	-0.743	-0.369	0.96
Wave 5		γ_{04}^*	-1	-1.041	-0.041	0.041	0.18	0.165	0.061	-1.375	-0.727	0.94	-1.363	-0.72	0.95
		γ_{14}^*	0.41	0.444	0.034	0.084	0.185	0.184	0.069	0.09	0.815	0.96	0.087	0.805	0.98
		γ_{x4}	-0.41	-0.409	0.001	-0.003	0.101	0.086	0.018	-0.578	-0.243	0.9	-0.576	-0.242	0.9
Wave 5		γ_{05}^*	-1	-1.032	-0.032	0.032	0.148	0.156	0.047	-1.348	-0.734	0.95	-1.339	-0.731	0.95
		γ_{15}^*	0.44	0.475	0.035	0.079	0.165	0.171	0.057	0.147	0.816	0.96	0.146	0.811	0.96
		γ_{x5}	-0.28	-0.284	-0.004	0.015	0.076	0.079	0.012	-0.44	-0.13	0.95	-0.438	-0.131	0.96

^a The average of the parameter estimates across all replications.

^b The average of the absolute biases across all replications.

^c The average of the relative biases across all replications.

^d The empirical standard errors across all replications.

^e The average of the standard errors across all replications.

^f The average of the mean square error, calculated by $bias^2 + se^2$, across all replications.

^g The average of the lower bound of the confidence interval across all replications.

^h The average of the upper bound of the confidence interval across all replications.

ⁱ The average of the coverage of the confidence interval across all replications.

^j The average of the lower bound of the HPD interval across all replications.

^k The average of the upper bound of the HPD interval across all replications.

^l The average of the coverage of the HPD interval across all replications.

^m Intercept

ⁿ Slope

Table 3

A summary table of $N=500$, class proportion=50% 50%, and with MCAR missingness

	para.	true	est.	bia	rl.bia	se.emp	se.avg	MSE	CI.L	CI.U	CI.CV	HPD.L	HPD.U	HPD.CV		
Growth Curve Parameters	Class 1	I	25	25.012	0.012	0	0.183	0.19	0.07	24.64	25.385	0.93	24.63	25.371	0.93	
		S	1.1	1.092	-0.008	-0.008	0.048	0.048	0.005	0.996	1.184	0.93	0.997	1.183	0.93	
		var(I)	6	5.944	-0.056	-0.009	0.794	0.78	1.244	4.559	7.614	0.97	4.473	7.496	0.96	
		var(S)	0.2	0.228	0.028	0.141	0.04	0.046	0.005	0.147	0.327	0.94	0.142	0.32	0.97	
		cov(IS)	-0.8	-0.809	-0.009	0.011	0.164	0.165	0.054	-1.161	-0.514	0.95	-1.137	-0.497	0.95	
		var(e)	2	1.999	-0.001	-0.001	0.146	0.135	0.039	1.748	2.276	0.94	1.739	2.265	0.95	
		Class 2	I	16	15.972	-0.028	-0.002	0.363	0.359	0.261	15.273	16.681	0.94	15.263	16.665	0.94
	S		1.3	1.31	0.01	0.007	0.089	0.093	0.017	1.128	1.492	0.96	1.126	1.489	0.97	
	var(I)		16	15.875	-0.125	-0.008	2.274	2.559	11.752	11.31	21.319	0.97	11.025	20.938	0.97	
	var(S)		0.4	0.444	0.044	0.11	0.119	0.151	0.04	0.205	0.789	0.99	0.18	0.743	0.98	
	cov(IS)		0.8	0.827	0.027	0.034	0.435	0.454	0.398	-0.13	1.654	0.96	-0.082	1.691	0.95	
	var(e)		13	13.047	0.047	0.004	0.822	0.754	1.243	11.638	14.592	0.92	11.578	14.518	0.92	
	Probit Parameters		Wave 1	φ_{10}	-0.5	-0.5	0	0.001	0.091	0.099	0.018	-0.699	-0.31	0.94	-0.694	-0.309
		φ_{11}		0.5	0.503	0.003	0.006	0.073	0.07	0.01	0.368	0.643	0.94	0.368	0.642	0.94
Wave 2		γ_{01}^*	-1	-1.006	-0.006	0.006	0.128	0.145	0.037	-1.296	-0.726	0.97	-1.289	-0.723	0.98	
		γ_{11}^*	0	0.001	0.001	0.001	0.15	0.161	0.048	-0.313	0.319	0.97	-0.311	0.316	0.96	
		γ_{x1}	0	0.009	0.009	0.009	0.071	0.073	0.011	-0.135	0.153	0.96	-0.134	0.152	0.96	
Wave 3		γ_{02}^*	-1	-1.017	-0.017	0.017	0.164	0.146	0.048	-1.308	-0.735	0.91	-1.301	-0.733	0.91	
		γ_{12}^*	0	-0.011	-0.011	-0.011	0.176	0.161	0.057	-0.325	0.308	0.92	-0.325	0.304	0.93	
		γ_{x2}	0	0.005	0.005	0.005	0.088	0.074	0.013	-0.14	0.15	0.89	-0.14	0.149	0.89	
Wave 4		γ_{03}^*	-1	-1.014	-0.014	0.014	0.137	0.146	0.04	-1.306	-0.734	0.96	-1.3	-0.732	0.96	
		γ_{13}^*	0	0.014	0.014	0.014	0.157	0.161	0.051	-0.3	0.331	0.96	-0.3	0.327	0.97	
		γ_{x3}	0	-0.002	-0.002	-0.002	0.072	0.074	0.011	-0.147	0.143	0.94	-0.146	0.142	0.94	
Wave 5		γ_{04}^*	-1	-1.022	-0.022	0.022	0.156	0.146	0.046	-1.315	-0.742	0.94	-1.308	-0.74	0.93	
		γ_{14}^*	0	0.003	0.003	0.003	0.166	0.161	0.053	-0.311	0.321	0.95	-0.307	0.321	0.95	
		γ_{x4}	0	0.01	0.01	0.01	0.075	0.074	0.011	-0.134	0.156	0.96	-0.134	0.154	0.95	
Wave 5		γ_{05}^*	-1	-0.987	0.013	-0.013	0.15	0.145	0.044	-1.276	-0.706	0.93	-1.271	-0.705	0.94	
		γ_{15}^*	0	-0.02	-0.02	-0.02	0.159	0.162	0.051	-0.335	0.298	0.96	-0.334	0.295	0.96	
		γ_{x5}	0	-0.011	-0.011	-0.011	0.086	0.074	0.013	-0.156	0.134	0.9	-0.155	0.133	0.88	

Table 4

A summary table of $N=500$, class proportion=30% 70%, and with MNAR missingness

	para.	true	est.	bia	rl.bia	se.emp	se.avg	MSE	CI.L	CI.U	CI.CV	HPD.L	HPD.U	HPD.CV		
Growth Curve Parameters	Class 1	I	25	25.026	0.026	0.001	0.216	0.234	0.102	24.564	25.483	0.95	24.556	25.469	0.97	
		S	1.1	1.083	-0.017	-0.016	0.048	0.056	0.006	0.973	1.191	0.97	0.973	1.191	0.97	
		var(I)	6	6.048	0.048	0.008	0.968	0.971	1.896	4.368	8.164	0.98	4.248	7.989	0.98	
		var(S)	0.2	0.238	0.038	0.19	0.045	0.054	0.006	0.145	0.356	0.94	0.138	0.346	0.98	
		cov(IS)	-0.8	-0.838	-0.038	0.047	0.18	0.201	0.075	-1.272	-0.487	0.98	-1.238	-0.463	0.98	
		var(e)	2	1.989	-0.011	-0.005	0.149	0.155	0.046	1.705	2.311	0.97	1.691	2.294	0.97	
	Class 2	I	16	16.072	0.072	0.005	0.269	0.306	0.171	15.476	16.676	0.97	15.469	16.662	0.97	
		S	1.3	1.297	-0.003	-0.003	0.077	0.08	0.012	1.14	1.453	0.98	1.139	1.451	0.98	
		var(I)	16	16.12	0.12	0.007	2.205	2.209	9.75	12.119	20.765	0.97	11.906	20.488	0.96	
		var(S)	0.4	0.418	0.018	0.046	0.092	0.135	0.028	0.201	0.721	1	0.179	0.685	1	
		cov(IS)	0.8	0.792	-0.008	-0.01	0.3	0.4	0.251	-0.045	1.524	1	-0.005	1.554	1	
		var(e)	13	12.914	-0.086	-0.007	0.641	0.656	0.846	11.679	14.25	0.96	11.637	14.196	0.97	
	Probit Parameters	Wave 1	φ_{10}	-1	-1.027	-0.027	0.027	0.116	0.121	0.029	-1.272	-0.797	0.96	-1.263	-0.792	0.96
			φ_{11}	0.5	0.515	0.015	0.029	0.082	0.077	0.013	0.369	0.668	0.95	0.367	0.665	0.94
Wave 2		γ_{01}^*	-1	-1.021	-0.021	0.021	0.293	0.364	0.254	-1.879	-0.44	1	-1.787	-0.4	1	
		γ_{11}^*	0.3	0.309	0.009	0.031	0.31	0.39	0.283	-0.326	1.217	1	-0.359	1.132	1	
		γ_{x1}	-1.05	-1.104	-0.054	0.051	0.153	0.14	0.046	-1.387	-0.839	0.93	-1.378	-0.834	0.93	
Wave 3		γ_{02}^*	-1	-1.151	-0.151	0.151	0.544	0.358	0.503	-1.957	-0.571	0.87	-1.874	-0.544	0.89	
		γ_{12}^*	0.34	0.476	0.136	0.399	0.576	0.377	0.547	-0.144	1.315	0.88	-0.17	1.237	0.88	
		γ_{x2}	-0.75	-0.775	-0.025	0.033	0.114	0.109	0.025	-0.995	-0.565	0.93	-0.989	-0.562	0.93	
Wave 4		γ_{03}^*	-1	-1.118	-0.118	0.118	0.378	0.296	0.281	-1.774	-0.633	0.88	-1.72	-0.609	0.91	
		γ_{13}^*	0.37	0.482	0.112	0.303	0.379	0.309	0.288	-0.027	1.159	0.93	-0.049	1.109	0.95	
		γ_{x3}	-0.55	-0.556	-0.006	0.011	0.101	0.092	0.019	-0.74	-0.377	0.93	-0.737	-0.376	0.94	
Wave 5		γ_{04}^*	-1	-1.088	-0.088	0.088	0.294	0.246	0.166	-1.626	-0.661	0.92	-1.583	-0.642	0.93	
		γ_{14}^*	0.41	0.492	0.082	0.199	0.286	0.253	0.164	0.049	1.042	0.93	0.029	0.999	0.95	
		γ_{x4}	-0.41	-0.41	0	0	0.073	0.083	0.012	-0.574	-0.249	0.97	-0.572	-0.248	0.97	
Wave 5		γ_{05}^*	-1	-1.078	-0.078	0.078	0.296	0.222	0.157	-1.539	-0.679	0.91	-1.515	-0.669	0.92	
	γ_{15}^*	0.44	0.52	0.08	0.183	0.289	0.225	0.155	0.115	0.984	0.92	0.103	0.961	0.92		
	γ_{x5}	-0.28	-0.278	0.002	-0.006	0.081	0.076	0.012	-0.428	-0.13	0.93	-0.427	-0.13	0.92		

Table 5

A summary table of $N=500$, class proportion=30% 70%, and with MCAR missingness

	para.	true	est.	bia	rl.bia	se.emp	se.avg	MSE	CI.L	CI.U	CI.CV	HPD.L	HPD.U	HPD.CV		
Growth Curve Parameters	Class 1	I	25	25.018	0.018	0.001	0.244	0.243	0.119	24.537	25.492	0.94	24.531	25.481	0.93	
		S	1.1	1.09	-0.01	-0.009	0.051	0.059	0.006	0.974	1.203	0.97	0.975	1.203	0.97	
		var(I)	6	5.992	-0.008	-0.001	0.9	1.028	1.879	4.215	8.232	0.97	4.08	8.038	0.98	
		var(S)	0.2	0.232	0.032	0.162	0.045	0.058	0.006	0.135	0.36	0.99	0.126	0.347	0.99	
		cov(IS)	-0.8	-0.809	-0.009	0.011	0.172	0.214	0.076	-1.272	-0.436	0.99	-1.236	-0.41	0.99	
		var(e)	2	1.995	-0.005	-0.002	0.17	0.174	0.059	1.677	2.357	0.93	1.663	2.339	0.94	
		Class 2	I	16	16.046	0.046	0.003	0.283	0.304	0.174	15.454	16.645	0.95	15.446	16.631	0.96
	S		1.3	1.292	-0.008	-0.006	0.076	0.079	0.012	1.138	1.447	0.95	1.136	1.444	0.94	
	var(I)		16	15.888	-0.112	-0.007	2.051	2.173	8.937	11.949	20.458	0.99	11.746	20.187	0.99	
	var(S)		0.4	0.421	0.021	0.053	0.096	0.132	0.028	0.207	0.718	1	0.186	0.683	0.99	
	cov(IS)		0.8	0.845	0.045	0.056	0.339	0.39	0.271	0.026	1.558	0.97	0.067	1.589	0.97	
	var(e)		13	12.956	-0.044	-0.003	0.626	0.645	0.808	11.742	14.267	0.99	11.698	14.211	0.99	
	Probit Parameters		φ_{10}	-1	-1.03	-0.03	0.03	0.121	0.119	0.03	-1.271	-0.805	0.93	-1.263	-0.801	0.94
			φ_{11}	0.5	0.52	0.02	0.039	0.08	0.076	0.013	0.374	0.671	0.93	0.373	0.668	0.92
Wave 1		γ_{01}^*	-1	-1.001	-0.001	0.001	0.206	0.178	0.074	-1.358	-0.659	0.9	-1.349	-0.657	0.9	
		γ_{11}^*	0	0.011	0.011	0.011	0.195	0.177	0.069	-0.332	0.365	0.95	-0.334	0.357	0.95	
		γ_{x1}	0	-0.006	-0.006	-0.006	0.08	0.074	0.012	-0.151	0.14	0.93	-0.15	0.139	0.92	
Wave 2		γ_{02}^*	-1	-1.051	-0.051	0.051	0.185	0.179	0.069	-1.41	-0.707	0.95	-1.4	-0.705	0.95	
		γ_{12}^*	0	0.031	0.031	0.031	0.195	0.178	0.07	-0.311	0.385	0.93	-0.313	0.377	0.94	
		γ_{x2}	0	0.016	0.016	0.016	0.072	0.075	0.011	-0.129	0.163	0.95	-0.129	0.162	0.93	
Wave 3		γ_{03}^*	-1	-1.01	-0.01	0.01	0.179	0.178	0.064	-1.367	-0.67	0.97	-1.356	-0.666	0.97	
		γ_{13}^*	0	0.006	0.006	0.006	0.186	0.177	0.066	-0.336	0.36	0.96	-0.339	0.351	0.95	
		γ_{x3}	0	-0.002	-0.002	-0.002	0.073	0.074	0.011	-0.148	0.144	0.97	-0.147	0.144	0.96	
Wave 4		γ_{04}^*	-1	-1.006	-0.006	0.006	0.198	0.178	0.071	-1.362	-0.664	0.9	-1.357	-0.664	0.91	
		γ_{14}^*	0	-0.005	-0.005	-0.005	0.201	0.178	0.072	-0.347	0.35	0.91	-0.35	0.341	0.91	
		γ_{x4}	0	-0.014	-0.014	-0.014	0.082	0.075	0.013	-0.161	0.132	0.9	-0.16	0.132	0.93	
Wave 5		γ_{05}^*	-1	-1.022	-0.022	0.022	0.17	0.178	0.061	-1.378	-0.682	0.97	-1.369	-0.681	0.97	
	γ_{15}^*	0	0.021	0.021	0.021	0.179	0.177	0.064	-0.318	0.373	0.96	-0.321	0.365	0.96		
	γ_{x5}	0	-0.008	-0.008	-0.008	0.076	0.074	0.011	-0.154	0.138	0.95	-0.153	0.137	0.96		

Table 6
Summary and comparison of simulation results

		Equal Classes		Unequal Classes		
		MNAR	MCAR	MNAR	MCAR	
Sample Size	1500	Bias.rel ^a	0.022	0.009	0.026	0.011
		SD.diff ^b	0.011	0.008	0.011	0.008
		HPD.cvr ^c	0.956	0.941	0.949	0.954
	1000	Bias.rel	0.023	0.012	0.032	0.016
		SD.diff	0.012	0.010	0.012	0.015
		HPD.cvr	0.950	0.951	0.952	0.948
	500	Bias.rel	0.030	0.012	0.068	0.016
		SD.diff	0.015	0.020	0.042	0.021
		HPD.cvr	0.952	0.945	0.954	0.952

^a The average absolute relative bias across all model parameters, defined by $|\text{Bias.rel}| = \sum_{j=1}^p |\text{Bias.rel}_j|/p$.

^b The average absolute difference between the empirical SDs and the average Bayesian SDs across all model parameters, defined by $|\text{SD.diff}| = \sum_{j=1}^p |\text{SD.emp}_j - \text{SD.avg}_j|/p$.

^c The average coverage probability across all model parameters, defined by $\text{HPD.cvr} = \sum_{j=1}^p \text{HPD.cvr}_j/p$.