

**Sampling from joint posterior of PTSD model coefficients  
(with illustrative sample printouts and checks on sample mean and covariance)**

First 5 sample coefficient vectors									
	Intercept	Age	SEXF	RHISP	RBLK	ROTH	PT41	PT42	PT43
Sample1	-0.786558	0.0025174	0.4148719	0.4091605	-0.987543	-0.830311	-0.802214	-0.009584	-0.221727
Sample2	-1.090475	0.019435	0.3195076	-0.129123	-0.288508	-0.769668	0.0122024	-0.078323	-0.063195
Sample3	-1.678749	0.0201555	0.5504117	0.1075037	-0.807104	-0.228246	-0.483396	0.1339461	-0.229332
Sample4	-1.689716	0.0303468	-0.105727	-0.178778	-0.634398	-1.72134	-0.353188	-0.152746	-0.487796
Sample5	-0.449964	0.0171116	-0.196109	0.1626851	-0.159642	-0.194274	-0.401064	0.5411135	-0.3738

First 5 sample coefficient vectors									
	PT44	PT45	PT46	PT48	PT50	PT50_1	PT51	PT55	PT209
Sample1	0.94233	0.2270175	-0.604571	-0.448127	0.724488	0.1032478	0.2237311	-0.466732	0.3355606
Sample2	0.1770931	-0.70792	0.730338	0.3496921	0.1877639	0.2973847	0.007617	-0.051647	0.5559232
Sample3	-0.255395	-0.677397	0.4967843	0.386085	0.9113166	0.2710728	-0.147793	-0.006449	0.4855161
Sample4	0.0542388	-0.093877	0.6281218	0.2976076	0.8896064	0.6575893	-0.275702	-0.58987	0.3735038
Sample5	0.2574528	-0.423696	0.8301709	-0.149409	0.8447707	0.172357	-0.100463	-0.00947	0.2557234

First 5 sample coefficient vectors						
	PT211	PT212	PT213	PT214	PT233	PT237
Sample1	0.208465	0.6577324	0.0272871	1.0168219	0.8079425	-0.126245
Sample2	0.0838216	-0.079603	-0.059307	0.7438903	0.5791987	0.1205132
Sample3	-0.338228	0.7082773	0.0998828	0.4691673	1.2291633	0.0954735
Sample4	-0.059737	0.0712538	0.0857325	0.7545701	1.0648332	0.3114674
Sample5	0.1995548	0.1926774	-0.012349	0.5395769	0.7194298	-0.379561

compare_means								
	Intercept	Age	SEXF	RHISP	RBLK	ROTH	PT41	PT42
Sample Mean	-1.513285	0.0262454	0.1098416	-0.082489	-0.55915	-0.975848	-0.560609	0.0509151
Their Betas	-1.514983	0.026261	0.1104811	-0.08185	-0.559713	-0.975096	-0.56034	0.050437

compare_means								
	PT43	PT44	PT45	PT46	PT48	PT50	PT50_1	PT51
Sample Mean	-0.386905	0.1140152	-0.162082	0.6005924	0.0764725	0.4693694	0.4584326	0.168514
Their Betas	-0.387668	0.1147767	-0.161415	0.599316	0.0779635	0.4687373	0.4591334	0.1683357

compare_means								
	PT55	PT209	PT211	PT212	PT213	PT214	PT233	PT237
Sample Mean	-0.224675	0.3656252	-0.057608	0.2517576	0.1152221	0.6402204	0.86627	0.1328549
Their Betas	-0.223708	0.3663829	-0.058089	0.2516196	0.1158511	0.6399657	0.8653777	0.1323303

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SampleCov									
	Intercept	Age	SEXF	RHISP	RBLK	ROTH	PT41	PT42	PT43
Intercept	0.3883339	-0.003586	-0.058369	-0.000578	0.00359	0.03566	0.030321	0.0469506	-0.012382
Age	-0.003586	0.0000844	-0.000038	0.0000617	0.0001506	-0.00078	1.1139E-6	-0.000544	0.00002
SEXF	-0.058369	-0.000038	0.0915366	0.0071955	-0.02019	0.0121002	0.0014482	-0.029115	0.0138998
RHISP	-0.000578	0.0000617	0.0071955	0.1730439	0.016117	0.0150571	-0.015743	-0.014766	-0.004195
RBLK	0.00359	0.0001506	-0.02019	0.016117	0.0863475	0.0266942	0.0137216	0.0081075	-0.001023
ROTH	0.03566	-0.00078	0.0121002	0.0150571	0.0266942	0.2801454	0.0530804	0.0129281	-0.003289
PT41	0.030321	1.1139E-6	0.0014482	-0.015743	0.0137216	0.0530804	0.1383116	0.008529	-0.009786
PT42	0.0469506	-0.000544	-0.029115	-0.014766	0.0081075	0.0129281	0.008529	0.0845107	0.006781
PT43	-0.012382	0.00002	0.0138998	-0.004195	-0.001023	-0.003289	-0.009786	0.006781	0.091349
PT44	-0.037864	-0.000104	0.0315492	0.0041017	-0.009224	-0.005491	-0.014303	-0.026339	-0.006313
PT45	-0.007442	0.0005141	-0.022054	0.0083779	0.0020653	-0.00773	-0.025212	-0.025112	-0.00063
PT46	-0.019114	-2.411E-6	-0.014618	0.0013138	0.0029323	-0.008242	-0.015123	0.0080252	-0.001783
PT48	-0.027112	-0.000065	-0.000322	-0.009448	-0.0034	-0.02031	-0.002833	-0.011531	-0.003662
PT50	-0.02328	0.0002329	0.0027034	-0.00459	-0.003204	-0.018669	-0.018652	-0.005617	0.0035764
PT50_1	-0.012703	0.0002289	0.0014192	-0.016316	-0.013409	-0.027825	-0.04532	-0.012396	-0.004861
PT51	-0.006669	2.9138E-6	0.0024782	0.0052875	0.0045398	0.0014075	-0.021605	0.002165	-0.00853
PT55	0.0151907	-0.000539	0.004643	-0.000407	0.0009773	0.0072962	-0.002872	0.0053259	0.0053064
PT209	-0.051626	0.0003239	0.0011762	-0.004537	-0.000413	0.0020374	-0.01386	-0.000344	-0.008434
PT211	-0.016305	-0.000166	-0.002959	0.0018323	0.0034117	0.0018269	-0.006029	0.0074491	0.0037648
PT212	-0.046504	-9.637E-6	0.0024493	0.0116348	-0.005115	-0.000272	0.0029011	-0.002227	-0.007494
PT213	-0.023948	0.0002461	-0.002586	-0.010394	0.0049289	-0.002311	0.0045717	-0.005251	-0.000113
PT214	0.0045183	-0.000217	0.009721	0.0080611	-0.010435	0.0113347	-0.002472	-0.001567	0.0001927
PT233	-0.057081	0.0001701	-0.00255	-0.017218	-0.003503	0.0000302	-0.002831	-0.002964	0.0058088
PT237	-0.025161	0.0000294	0.0023207	0.0001818	-0.008027	-0.02979	-0.004016	-0.003088	0.0003225

**Sampling from joint posterior of PTSD model coefficients  
(with illustrative sample printouts and checks on sample mean and covariance)**

SampleCov									
	PT44	PT45	PT46	PT48	PT50	PT50_1	PT51	PT55	PT209
Intercept	-0.037864	-0.007442	-0.019114	-0.027112	-0.02328	-0.012703	-0.006669	0.0151907	-0.051626
Age	-0.000104	0.0005141	-2.411E-6	-0.000065	0.0002329	0.0002289	2.9138E-6	-0.000539	0.0003239
SEXF	0.0315492	-0.022054	-0.014618	-0.000322	0.0027034	0.0014192	0.0024782	0.004643	0.0011762
RHISP	0.0041017	0.0083779	0.0013138	-0.009448	-0.00459	-0.016316	0.0052875	-0.000407	-0.004537
RBLK	-0.009224	0.0020653	0.0029323	-0.0034	-0.003204	-0.013409	0.0045398	0.0009773	-0.000413
ROTH	-0.005491	-0.00773	-0.008242	-0.02031	-0.018669	-0.027825	0.0014075	0.0072962	0.0020374
PT41	-0.014303	-0.025212	-0.015123	-0.002833	-0.018652	-0.04532	-0.021605	-0.002872	-0.01386
PT42	-0.026339	-0.025112	0.0080252	-0.011531	-0.005617	-0.012396	0.002165	0.0053259	-0.000344
PT43	-0.006313	-0.00063	-0.001783	-0.003662	0.0035764	-0.004861	-0.00853	0.0053064	-0.008434
PT44	0.0741935	-0.004726	-0.003187	0.0005435	-0.005167	0.0034239	-0.010785	-0.001611	0.0055251
PT45	-0.004726	0.0795953	-0.016343	-0.005506	0.0049478	0.0078177	-0.000388	-0.011308	-0.003038
PT46	-0.003187	-0.016343	0.0670925	0.0045004	0.0010441	-0.00477	0.0100971	-0.004585	0.0023234
PT48	0.0005435	-0.005506	0.0045004	0.0596548	-0.002472	0.0102353	-0.010672	0.0165929	-0.005622
PT50	-0.005167	0.0049478	0.0010441	-0.002472	0.0910252	-0.010863	-0.00061	-0.010609	0.0076138
PT50_1	0.0034239	0.0078177	-0.00477	0.0102353	-0.010863	0.082019	0.003291	0.0068995	0.0010659
PT51	-0.010785	-0.000388	0.0100971	-0.010672	-0.00061	0.003291	0.0620973	-0.010282	0.0078412
PT55	-0.001611	-0.011308	-0.004585	0.0165929	-0.010609	0.0068995	-0.010282	0.0936351	-0.01254
PT209	0.0055251	-0.003038	0.0023234	-0.005622	0.0076138	0.0010659	0.0078412	-0.01254	0.0617086
PT211	-0.003939	0.0050034	0.0016759	-0.0053	0.0075036	-0.005079	0.0017526	-0.008935	0.0054052
PT212	0.0047704	-0.006609	0.0047008	0.0037125	-0.003399	-0.001919	0.0024637	0.0024639	0.0072873
PT213	0.0050987	0.0048175	-0.013333	-0.010731	-0.001073	-0.012429	-0.003775	-0.017394	0.0090942
PT214	0.0029617	-0.002653	0.0045828	-0.006792	0.0019617	-0.005171	0.0009882	-0.006111	-0.007726
PT233	0.0046872	-0.000851	0.0101927	0.0006711	0.0077456	-0.005174	-0.008894	0.0046018	-0.010302
PT237	0.000057	-0.005846	0.004156	0.0162111	-0.007712	0.0074523	-0.011094	0.0136288	-0.009073

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SampleCov						
	PT211	PT212	PT213	PT214	PT233	PT237
<b>Intercept</b>	-0.016305	-0.046504	-0.023948	0.0045183	-0.057081	-0.025161
<b>Age</b>	-0.000166	-9.637E-6	0.0002461	-0.000217	0.0001701	0.0000294
<b>SEXF</b>	-0.002959	0.0024493	-0.002586	0.009721	-0.00255	0.0023207
<b>RHISP</b>	0.0018323	0.0116348	-0.010394	0.0080611	-0.017218	0.0001818
<b>RBLK</b>	0.0034117	-0.005115	0.0049289	-0.010435	-0.003503	-0.008027
<b>ROTH</b>	0.0018269	-0.000272	-0.002311	0.0113347	0.0000302	-0.02979
<b>PT41</b>	-0.006029	0.0029011	0.0045717	-0.002472	-0.002831	-0.004016
<b>PT42</b>	0.0074491	-0.002227	-0.005251	-0.001567	-0.002964	-0.003088
<b>PT43</b>	0.0037648	-0.007494	-0.000113	0.0001927	0.0058088	0.0003225
<b>PT44</b>	-0.003939	0.0047704	0.0050987	0.0029617	0.0046872	0.000057
<b>PT45</b>	0.0050034	-0.006609	0.0048175	-0.002653	-0.000851	-0.005846
<b>PT46</b>	0.0016759	0.0047008	-0.013333	0.0045828	0.0101927	0.004156
<b>PT48</b>	-0.0053	0.0037125	-0.010731	-0.006792	0.0006711	0.0162111
<b>PT50</b>	0.0075036	-0.003399	-0.001073	0.0019617	0.0077456	-0.007712
<b>PT50_1</b>	-0.005079	-0.001919	-0.012429	-0.005171	-0.005174	0.0074523
<b>PT51</b>	0.0017526	0.0024637	-0.003775	0.0009882	-0.008894	-0.011094
<b>PT55</b>	-0.008935	0.0024639	-0.017394	-0.006111	0.0046018	0.0136288
<b>PT209</b>	0.0054052	0.0072873	0.0090942	-0.007726	-0.010302	-0.009073
<b>PT211</b>	0.0679068	-0.009638	-0.007147	-0.004055	-0.013649	-0.002696
<b>PT212</b>	-0.009638	0.0803496	-0.013076	-0.00299	-0.008817	-0.00312
<b>PT213</b>	-0.007147	-0.013076	0.0746966	-0.002465	-0.004544	-0.011942
<b>PT214</b>	-0.004055	-0.00299	-0.002465	0.0591341	0.0052785	-0.01448
<b>PT233</b>	-0.013649	-0.008817	-0.004544	0.0052785	0.0953973	-0.001715
<b>PT237</b>	-0.002696	-0.00312	-0.011942	-0.01448	-0.001715	0.0664259

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cov_diff									
	Intercept	Age	SEXF	RHISP	RBLK	ROTH	PT41	PT42	PT43
Intercept	0.0004202	-9.091E-6	-0.000434	-0.001375	0.0005441	-0.001934	-0.000478	-0.000106	0.0002106
Age	-9.091E-6	2.3853E-7	-0.000013	0.0000287	-5.94E-7	0.0000167	-7.135E-7	5.4353E-6	5.5279E-6
SEXF	-0.000434	-0.000013	0.0006145	-0.00043	0.0000265	0.0004224	0.0002	0.0000318	0.0002456
RHISP	-0.001375	0.0000287	-0.00043	0.0007944	0.0005973	0.0009446	-0.000556	0.0004993	0.0002001
RBLK	0.0005441	-5.94E-7	0.0000265	0.0005973	-0.000108	0.0003471	-0.000353	0.0003718	0.0000605
ROTH	-0.001934	0.0000167	0.0004224	0.0009446	0.0003471	0.0018558	-0.000411	0.0006106	-0.000141
PT41	-0.000478	-7.135E-7	0.0002	-0.000556	-0.000353	-0.000411	0.0001095	0.0001355	0.0007877
PT42	-0.000106	5.4353E-6	0.0000318	0.0004993	0.0003718	0.0006106	0.0001355	-0.000174	-0.000768
PT43	0.0002106	5.5279E-6	0.0002456	0.0002001	0.0000605	-0.000141	0.0007877	-0.000768	-0.000297
PT44	0.0001764	-0.000014	0.0001377	-0.00044	-0.000127	0.0001715	-0.000057	0.0004848	3.5681E-6
PT45	0.0003201	4.7227E-6	-0.000043	-0.000126	-0.000312	-0.000434	0.0001194	0.0001108	0.0002775
PT46	-0.000826	6.8065E-6	0.0002043	0.0001245	0.0003632	0.0001981	-0.000275	-0.000241	-0.000321
PT48	-0.000464	2.9718E-6	0.0000844	-0.00038	-0.000293	0.0001785	-0.000137	-0.00005	0.0001781
PT50	0.0012856	-0.000012	-0.0006	0.0006494	-0.000191	-0.000452	-0.000374	-0.000182	-0.000233
PT50_1	0.0001243	-3.296E-6	0.0001922	0.0001267	-0.000253	-0.000218	-0.00041	-0.000316	-0.000399
PT51	0.0000875	2.3099E-6	0.0000513	0.0001521	0.0002408	-0.000283	-0.000438	-0.000308	-0.000016
PT55	0.0008617	4.1213E-6	-0.000121	-0.00007	0.0001322	-0.000464	-0.000096	-0.000265	-0.000386
PT209	0.0006544	-8.481E-6	-0.000104	0.0002719	-0.000337	0.0005607	0.0002253	0.0002823	-0.000117
PT211	-0.000728	0.0000125	0.0004627	0.0011132	-0.000085	0.000286	-0.000416	-0.000291	-0.000063
PT212	0.0001132	0.0000117	-0.000427	0.0000191	0.0000967	-0.000107	-0.000056	-0.000194	-0.000466
PT213	0.000443	-1.489E-6	-0.000079	-0.000124	0.0001194	0.000252	0.0006457	0.0003278	0.0004701
PT214	-0.000047	-7.513E-7	-0.00019	0.000049	0.0003273	0.0002174	0.0003899	-0.000282	0.000017
PT233	0.000468	-3.306E-6	0.0000834	-0.000347	0.0000488	0.0001069	0.000219	-0.000038	-0.000227
PT237	-0.000311	-5.689E-6	0.0004509	-0.000664	-0.000559	-0.00009	0.0003779	0.0001196	0.0000384

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cov_diff									
	PT44	PT45	PT46	PT48	PT50	PT50_1	PT51	PT55	PT209
<b>Intercept</b>	0.0001764	0.0003201	-0.000826	-0.000464	0.0012856	0.0001243	0.0000875	0.0008617	0.0006544
<b>Age</b>	-0.000014	4.7227E-6	6.8065E-6	2.9718E-6	-0.000012	-3.296E-6	2.3099E-6	4.1213E-6	-8.481E-6
<b>SEXF</b>	0.0001377	-0.000043	0.0002043	0.0000844	-0.0006	0.0001922	0.0000513	-0.000121	-0.000104
<b>RHISP</b>	-0.00044	-0.000126	0.0001245	-0.00038	0.0006494	0.0001267	0.0001521	-0.00007	0.0002719
<b>RBLK</b>	-0.000127	-0.000312	0.0003632	-0.000293	-0.000191	-0.000253	0.0002408	0.0001322	-0.000337
<b>ROTH</b>	0.0001715	-0.000434	0.0001981	0.0001785	-0.000452	-0.000218	-0.000283	-0.000464	0.0005607
<b>PT41</b>	-0.000057	0.0001194	-0.000275	-0.000137	-0.000374	-0.00041	-0.000438	-0.000096	0.0002253
<b>PT42</b>	0.0004848	0.0001108	-0.000241	-0.00005	-0.000182	-0.000316	-0.000308	-0.000265	0.0002823
<b>PT43</b>	3.5681E-6	0.0002775	-0.000321	0.0001781	-0.000233	-0.000399	-0.000016	-0.000386	-0.000117
<b>PT44</b>	-0.000255	-0.000091	-0.000062	-0.000182	0.0000759	-0.000036	0.0002029	0.000078	-0.000179
<b>PT45</b>	-0.000091	0.000311	-0.000112	-0.000137	0.0004794	-0.000257	0.0001357	0.0001622	-0.000301
<b>PT46</b>	-0.000062	-0.000112	0.0001852	-0.00003	0.0001885	0.0003493	0.0003683	-0.000188	0.000036
<b>PT48</b>	-0.000182	-0.000137	-0.00003	0.0005729	0.0003552	0.0003335	-0.000227	0.0003351	-0.000123
<b>PT50</b>	0.0000759	0.0004794	0.0001885	0.0003552	-0.000291	0.000297	-0.000365	0.000223	-0.00023
<b>PT50_1</b>	-0.000036	-0.000257	0.0003493	0.0003335	0.000297	0.0007857	0.0002842	0.0003711	-0.000054
<b>PT51</b>	0.0002029	0.0001357	0.0003683	-0.000227	-0.000365	0.0002842	0.0002871	-0.00044	0.000115
<b>PT55</b>	0.000078	0.0001622	-0.000188	0.0003351	0.000223	0.0003711	-0.00044	-0.000177	0.0000493
<b>PT209</b>	-0.000179	-0.000301	0.000036	-0.000123	-0.00023	-0.000054	0.000115	0.0000493	-0.00055
<b>PT211</b>	0.0002924	0.0001464	-0.000052	-0.000264	-0.000101	-0.000136	0.0000872	-0.000519	0.0004313
<b>PT212</b>	0.000231	0.0001728	0.0002238	0.000036	0.0000713	-0.000192	-0.000261	-0.00066	-9.518E-6
<b>PT213</b>	-0.000117	-0.000146	0.0001685	-0.000168	-0.0004	-0.00011	-0.000105	0.0000292	-0.000266
<b>PT214</b>	-0.000011	0.0001131	-0.000161	-0.000057	-0.000321	0.0000673	-0.000213	0.0001593	0.0000642
<b>PT233</b>	0.0001612	-0.000139	0.0001137	0.0002109	-0.00013	-0.000058	-0.00011	3.8256E-6	-0.000081
<b>PT237</b>	0.0000424	-0.000585	-0.000283	0.0004131	0.0001631	-0.000124	-0.000052	0.0001368	0.0002402

**Sampling from joint posterior of PTSD model coefficients**  
**(with illustrative sample printouts and checks on sample mean and covariance)**

cov_diff						
	PT211	PT212	PT213	PT214	PT233	PT237
Intercept	-0.000728	0.0001132	0.000443	-0.000047	0.000468	-0.000311
Age	0.0000125	0.0000117	-1.489E-6	-7.513E-7	-3.306E-6	-5.689E-6
SEXF	0.0004627	-0.000427	-0.000079	-0.00019	0.0000834	0.0004509
RHISP	0.0011132	0.0000191	-0.000124	0.000049	-0.000347	-0.000664
RBLK	-0.000085	0.0000967	0.0001194	0.0003273	0.0000488	-0.000559
ROTH	0.000286	-0.000107	0.000252	0.0002174	0.0001069	-0.00009
PT41	-0.000416	-0.000056	0.0006457	0.0003899	0.000219	0.0003779
PT42	-0.000291	-0.000194	0.0003278	-0.000282	-0.000038	0.0001196
PT43	-0.000063	-0.000466	0.0004701	0.000017	-0.000227	0.0000384
PT44	0.0002924	0.000231	-0.000117	-0.000011	0.0001612	0.0000424
PT45	0.0001464	0.0001728	-0.000146	0.0001131	-0.000139	-0.000585
PT46	-0.000052	0.0002238	0.0001685	-0.000161	0.0001137	-0.000283
PT48	-0.000264	0.000036	-0.000168	-0.000057	0.0002109	0.0004131
PT50	-0.000101	0.0000713	-0.0004	-0.000321	-0.00013	0.0001631
PT50_1	-0.000136	-0.000192	-0.00011	0.0000673	-0.000058	-0.000124
PT51	0.0000872	-0.000261	-0.000105	-0.000213	-0.00011	-0.000052
PT55	-0.000519	-0.00066	0.0000292	0.0001593	3.8256E-6	0.0001368
PT209	0.0004313	-9.518E-6	-0.000266	0.0000642	-0.000081	0.0002402
PT211	-0.000259	0.0002128	0.0001206	-0.000141	-0.000443	0.0000869
PT212	0.0002128	-0.00013	0.0000472	-0.00008	-0.000295	0.0000968
PT213	0.0001206	0.0000472	8.1036E-6	0.0003632	-0.000016	-0.000504
PT214	-0.000141	-0.00008	0.0003632	-0.000809	0.0002497	0.0003038
PT233	-0.000443	-0.000295	-0.000016	0.0002497	-0.000035	0.0000829
PT237	0.0000869	0.0000968	-0.000504	0.0003038	0.0000829	0.0003098

formula	
	COL1
ROW1	$  \begin{aligned}  & -0.7865581517294*1+0.0025173831*Age+0.4148718605*SEXF+0.4091604599*RHISP-0.98754255277167*RBLK-0.8303114191702* \\  & ROTH-0.8022137757695*PT41-0.00958364130379*PT42-0.22172685416123*PT43+0.9423300378*PT44+0.227017495*PT45-0.60457092572677* \\  & PT46-0.44812725726479*PT48+0.7244879874*PT50+0.1032478129*PT50_1+0.2237310911*PT51-0.46673206538619*PT55+0.3355605637* \\  & PT209+0.2084649774*PT211+0.6577323569*PT212+0.0272870988*PT213+1.0168218843*PT214+0.8079424956*PT233-0.12624490268309*PT237  \end{aligned}  $