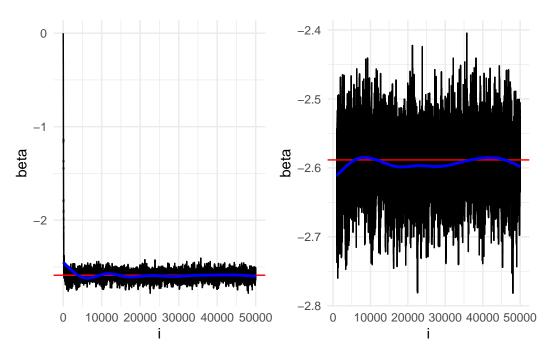
Denis Ostroushko - PUBH 7440 - HW4 - Part 2

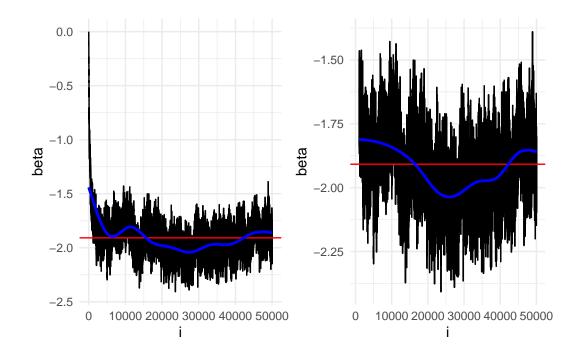
Problem 1

Problem 2

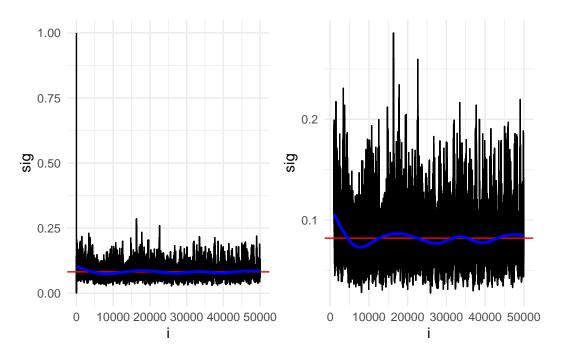
Problem 3

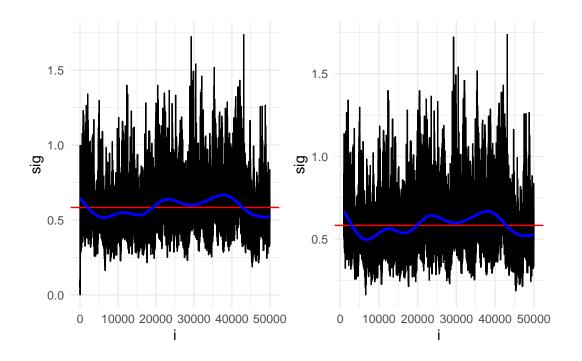
Betas





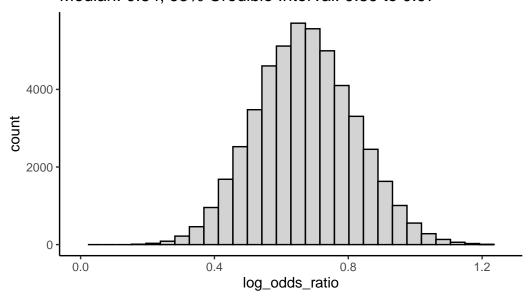
Sigmas



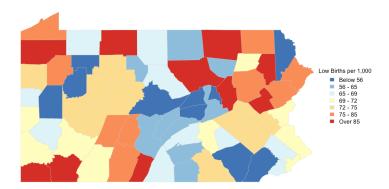


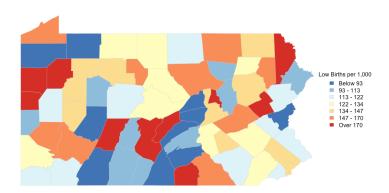
Problem 4

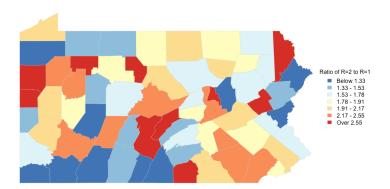
Log Odds Ratio Median: 0.84; 95% Credible Interval: 0.39 to 0.97



Problem 5





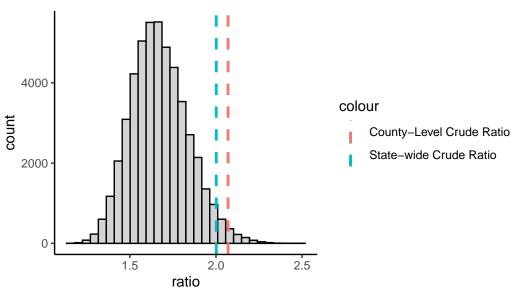


Problem 6

Philadelphia County

Racial Group	Y	N	Crude Rate	Estiamted Rate	State-Wide Rate
1	440	6230	0.07	0.09	0.07
2	1251	8557	0.15	0.15	0.14

Estiamted Median Ratio: 1.66 95% Credible Interval: 1.38 to 2.03

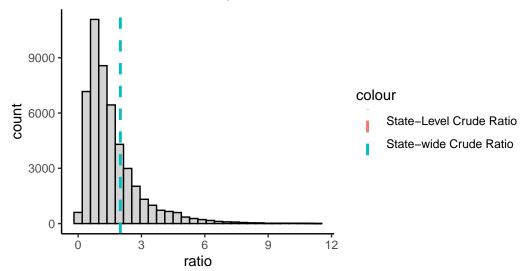


Sullivan County

Racial Group	Y	N	Crude Rate	Estiamted Rate	State-Wide Rate
1	2	40	0.05	0.09	0.07
2	0	0		0.11	0.14

Estiamted Median Ratio: 1.23 95% Credible Interval: 0.25 to 5.22

White Births Total: 40; Black Births Total: 0



Appendix