

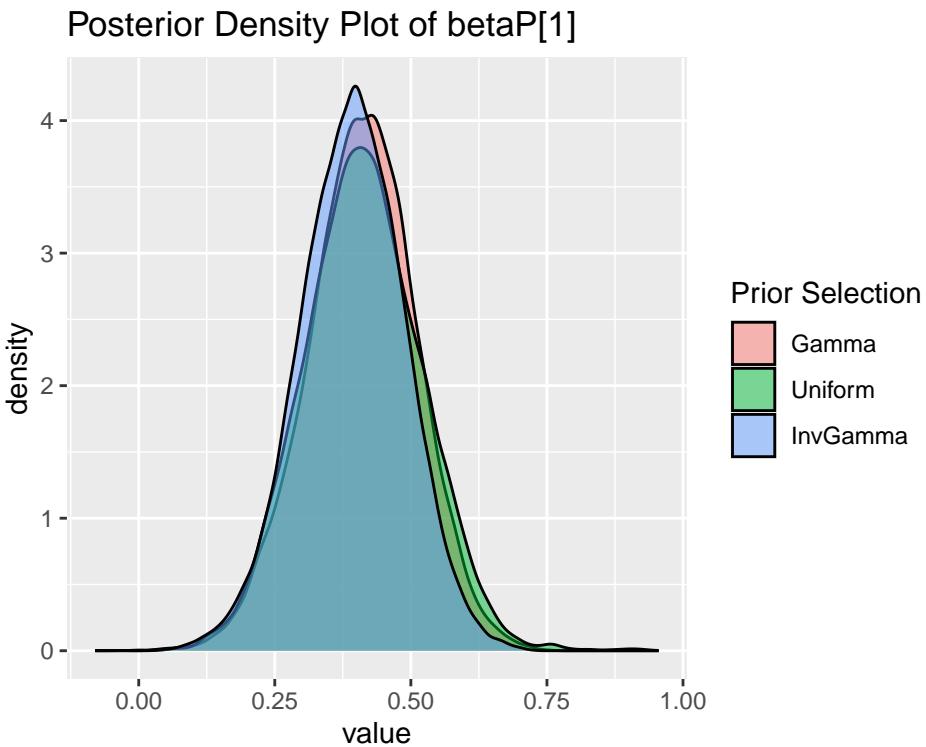
# Supplementary Document: Sensitivity Analysis

## Within-Host Bayesian Joint Modeling of Longitudinal and Time-to-Event Data of Leishmania Infection

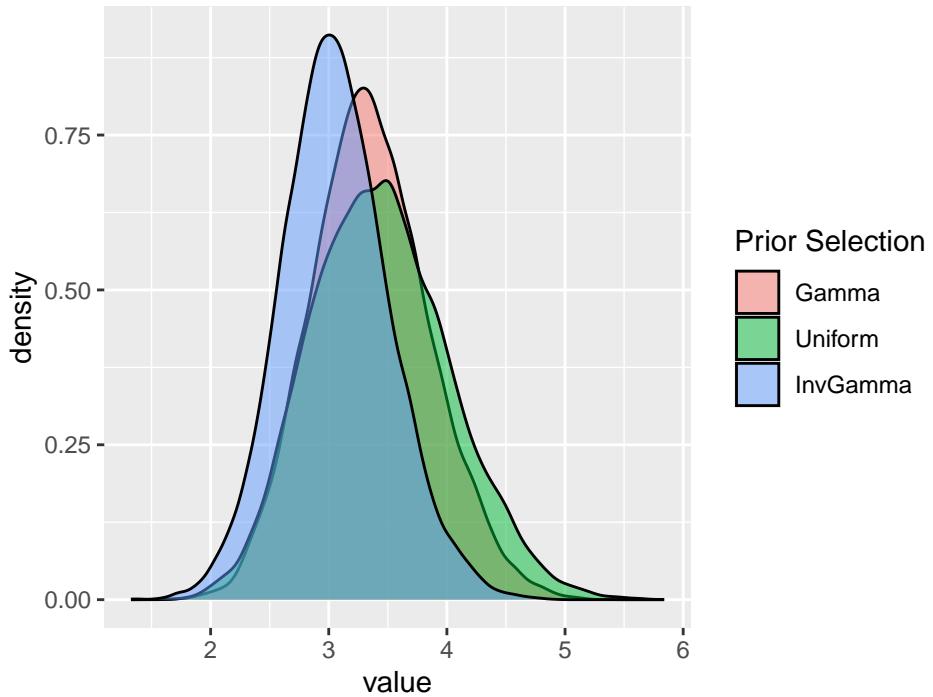
Felix M. Pabon-Rodriguez, Grant D. Brown, Breanna M. Scorza, and Christine A. Petersen

**Posterior Density Plots of Parameters based on Sensitivity Analysis.** We performed a sensitivity analysis, targeting the prior information on the variance of the model parameters, particularly on the driver effects and association parameters between the longitudinal and survival sub-models. The three scenarios with different levels of prior variance are explained in the main text. The posterior density plots of the parameters are shown below based on the model component they belong to.

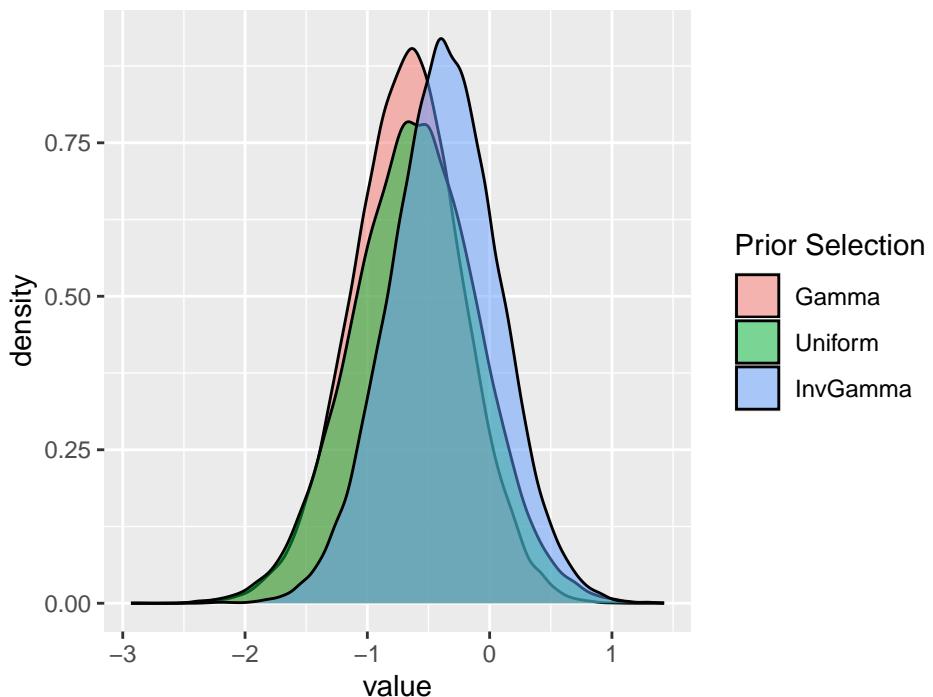
### Pathogen Load (P)



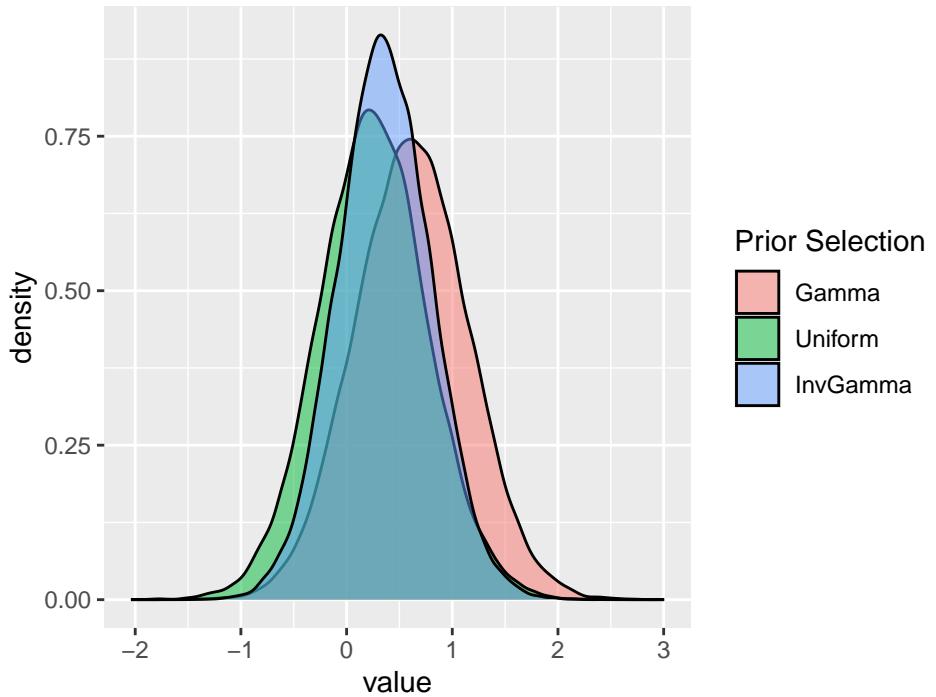
Posterior Density Plot of betaP[2]



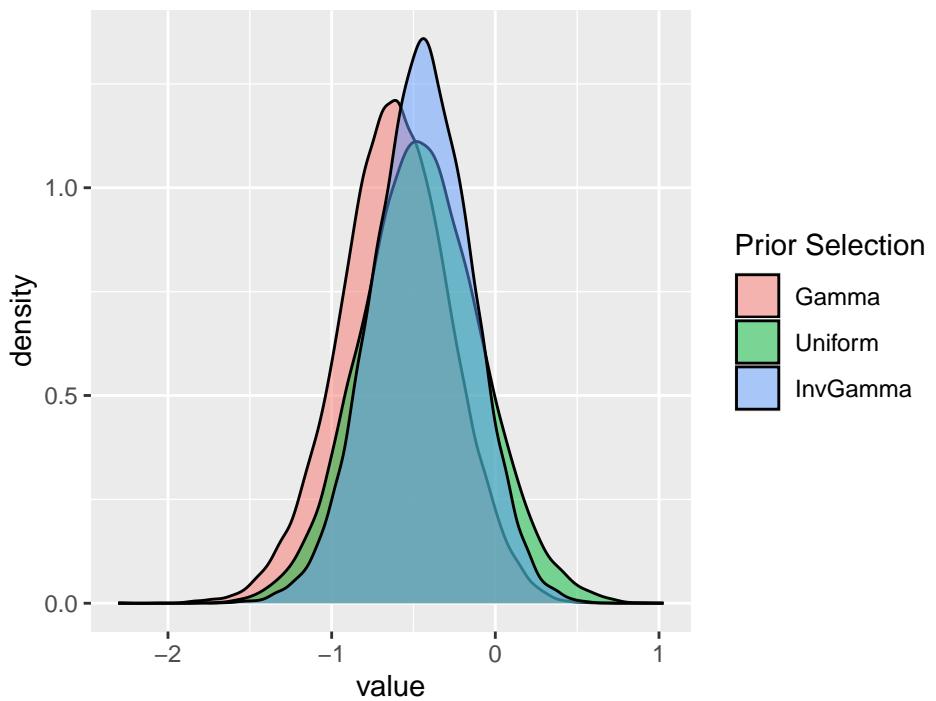
Posterior Density Plot of betaP[3]



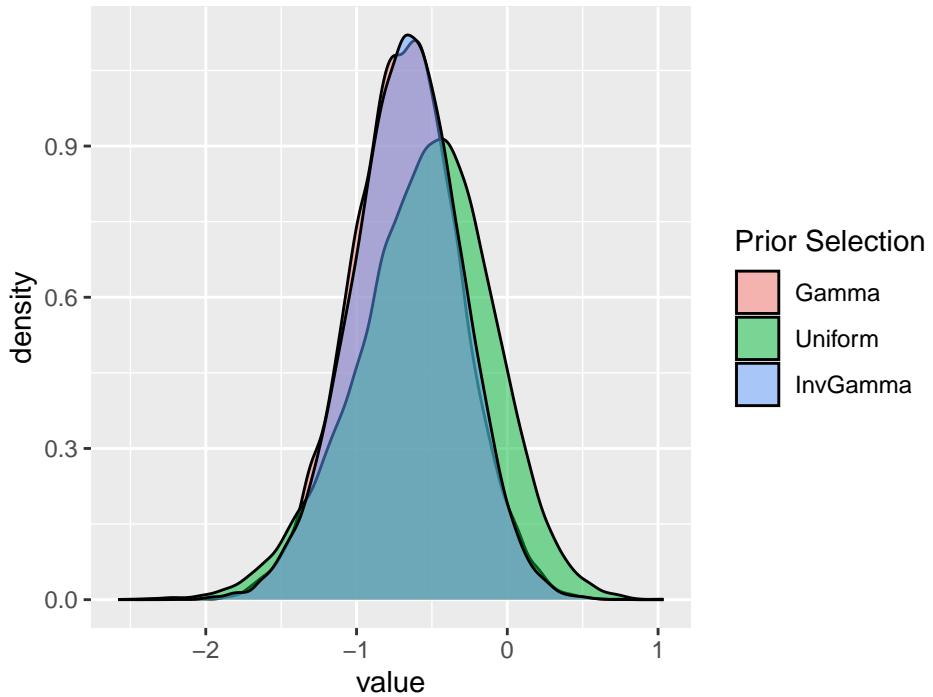
Posterior Density Plot of betaP[4]



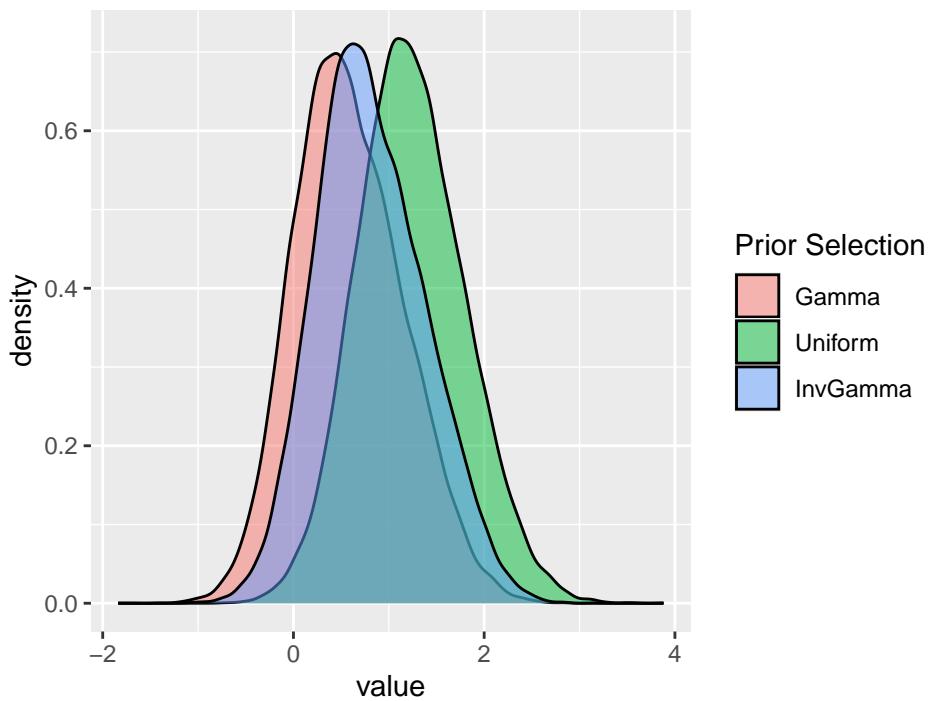
Posterior Density Plot of betaP[5]



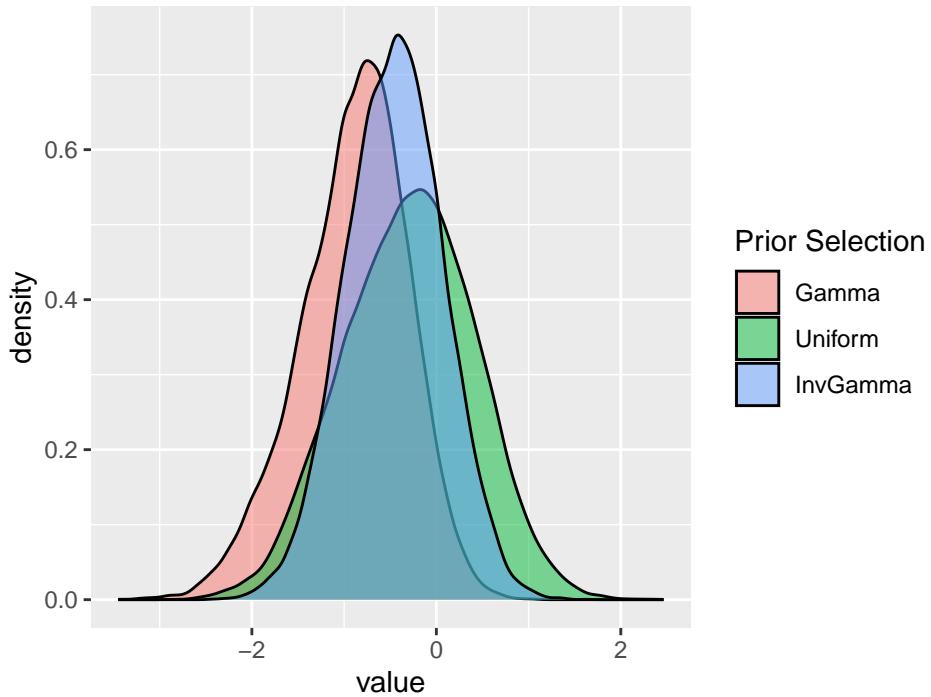
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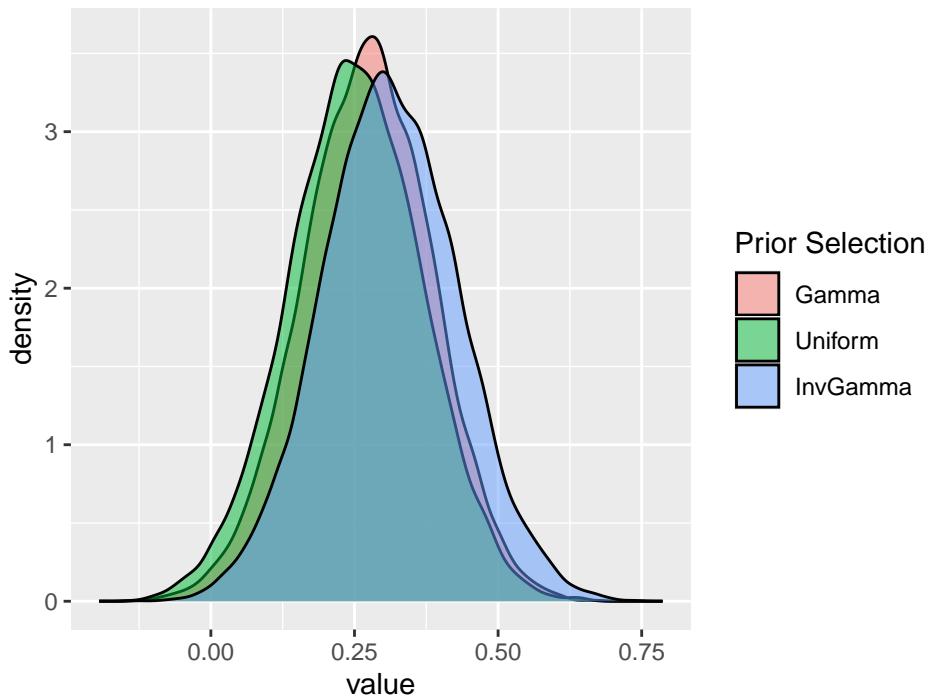
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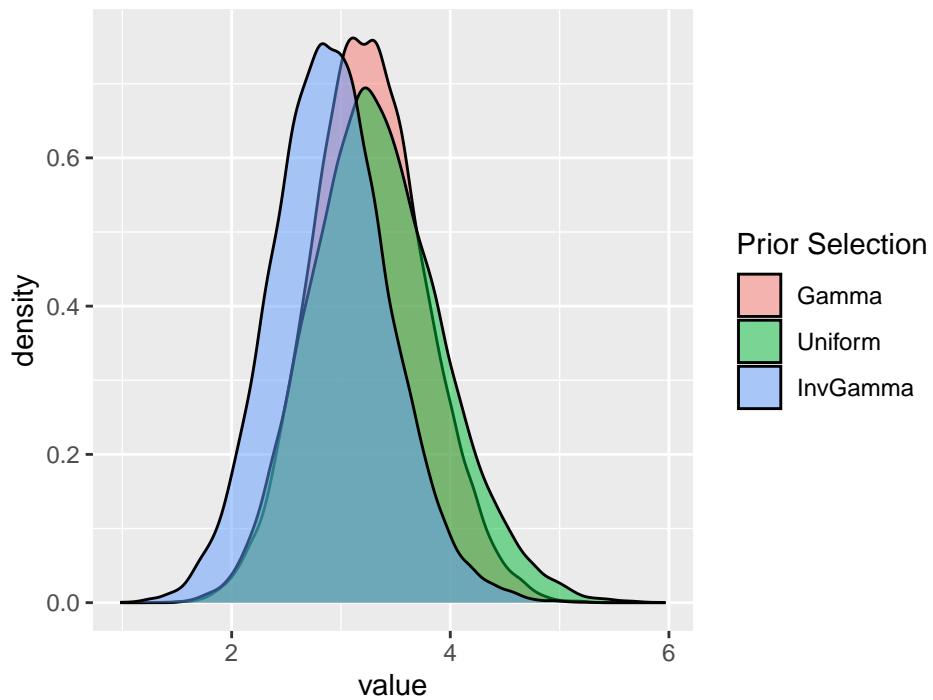
Posterior Density Plot of betaP[8]



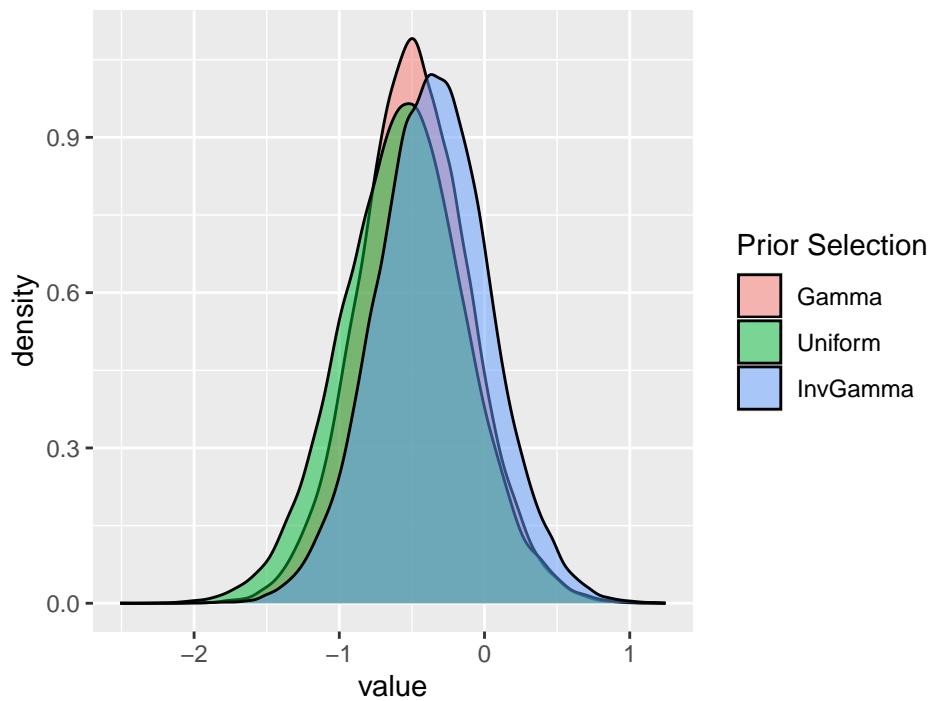
Posterior Density Plot of betaP[9]



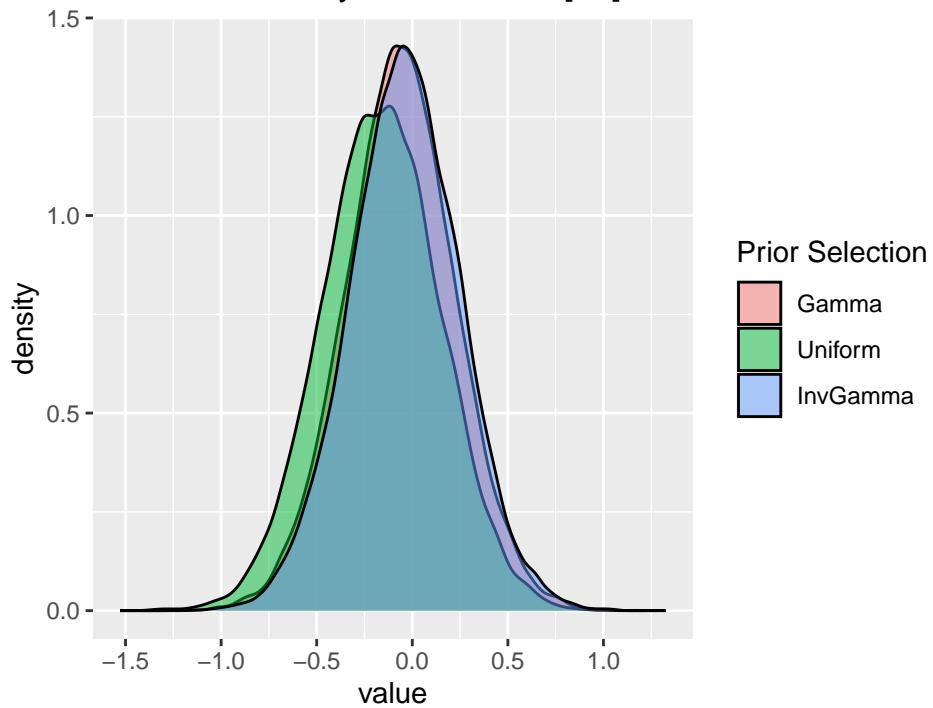
Posterior Density Plot of betaP[10]



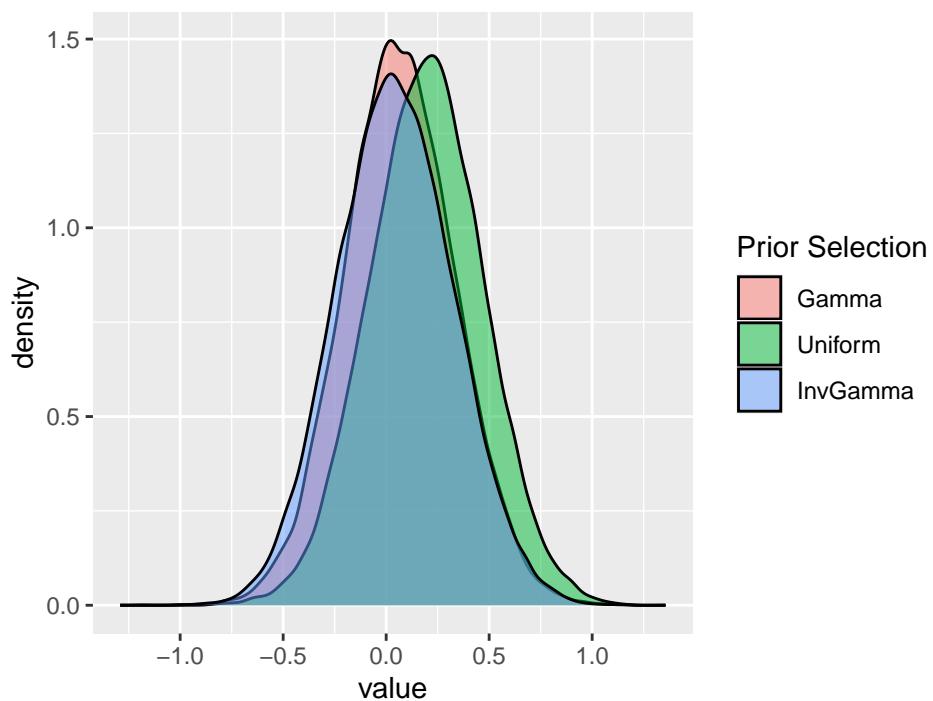
Posterior Density Plot of betaP[11]



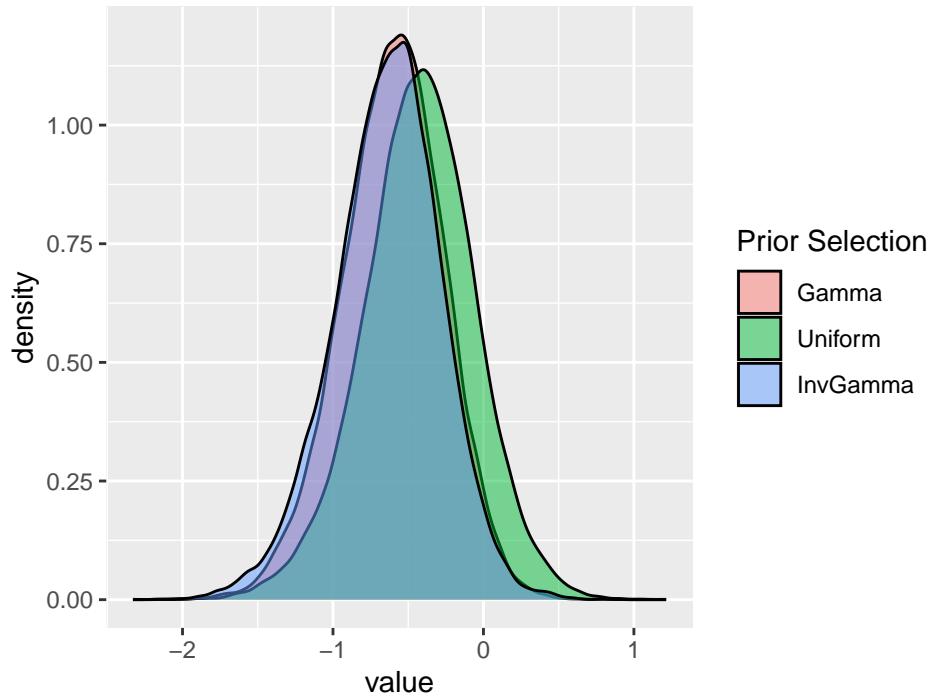
Posterior Density Plot of betaP[12]



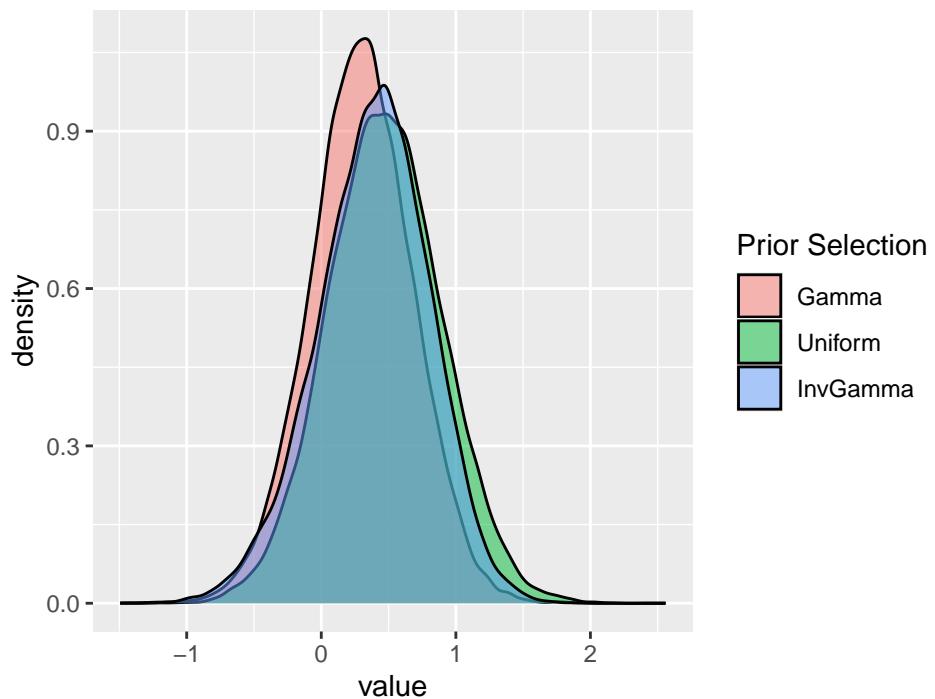
Posterior Density Plot of betaP[13]



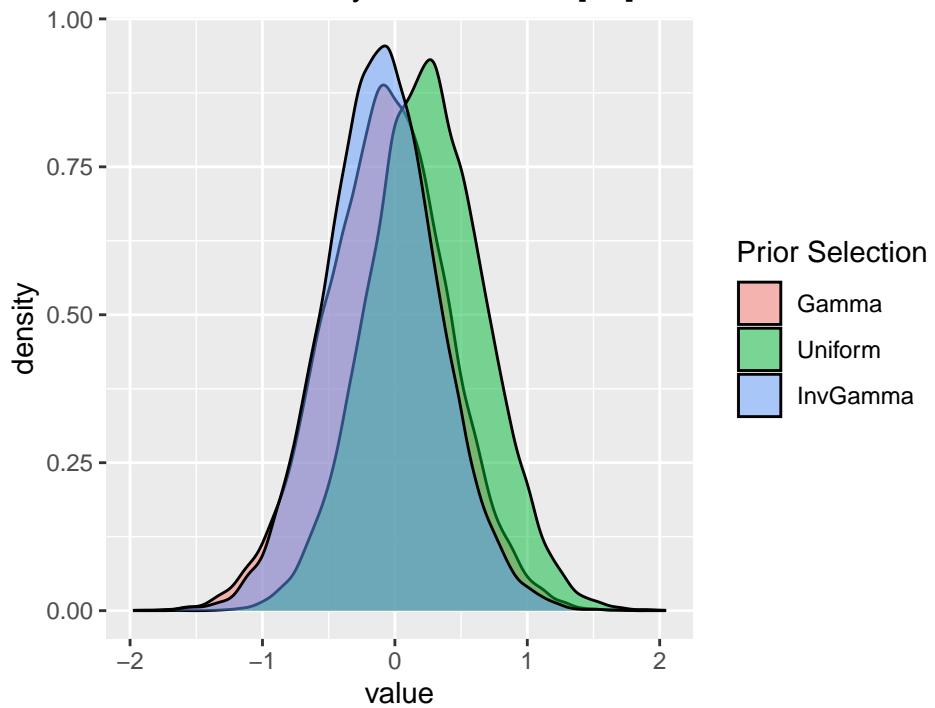
Posterior Density Plot of betaP[14]



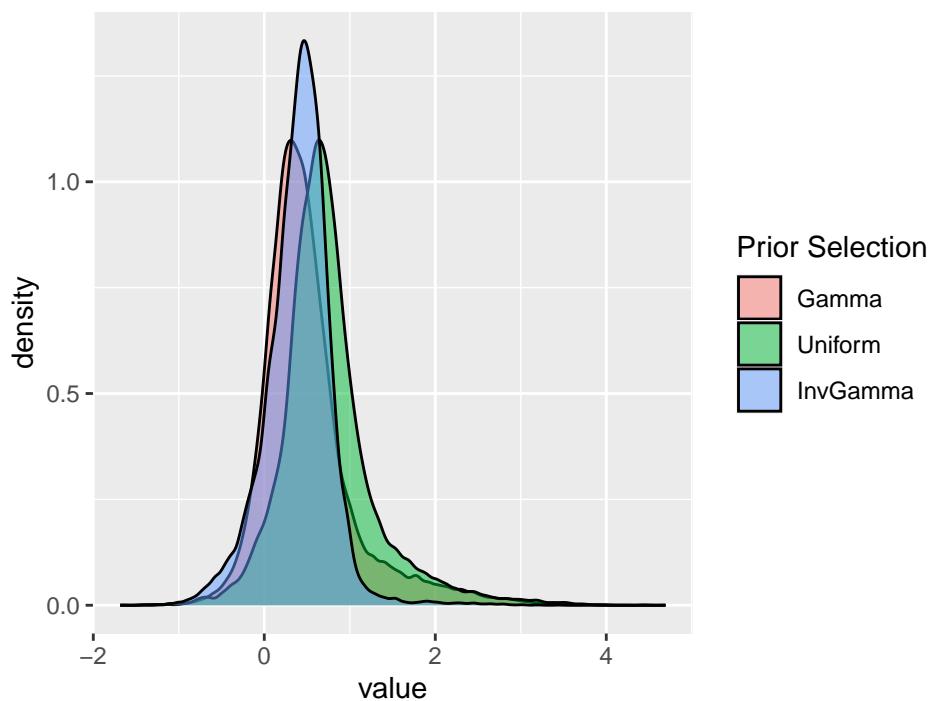
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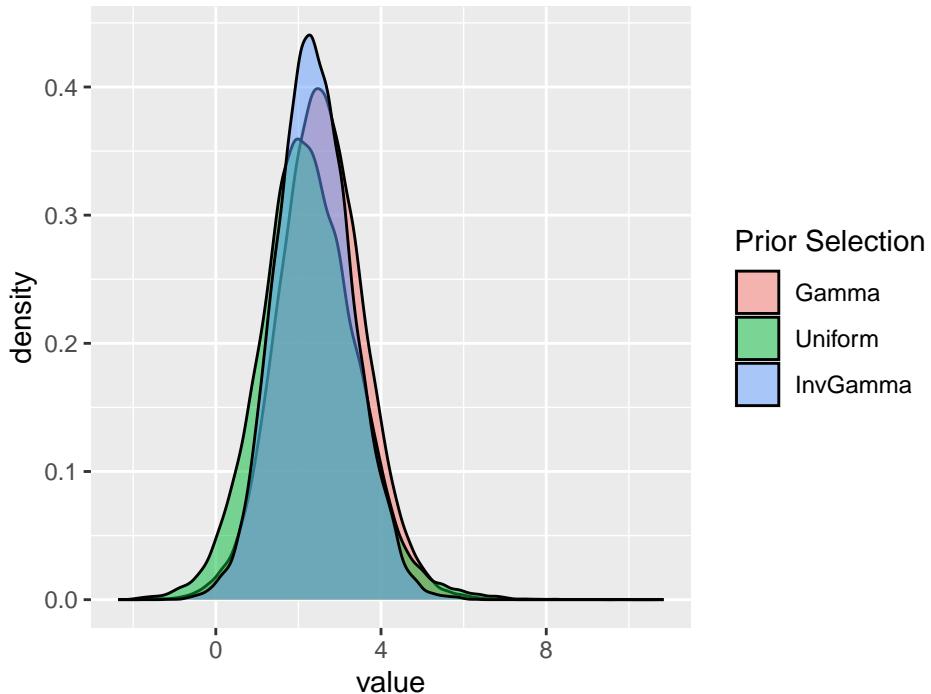
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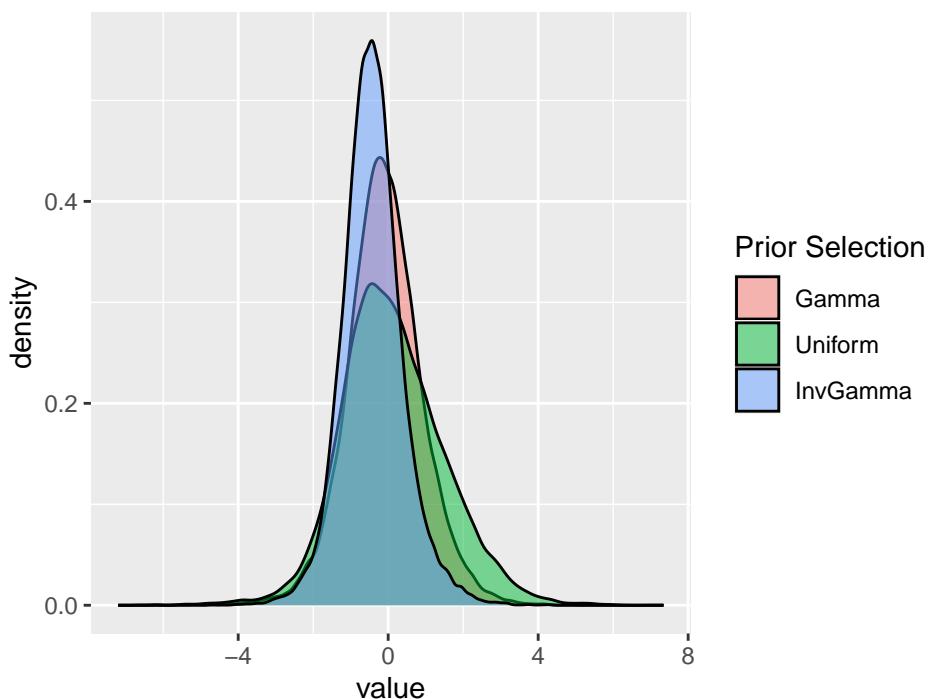
Posterior Density Plot of betaP[17]



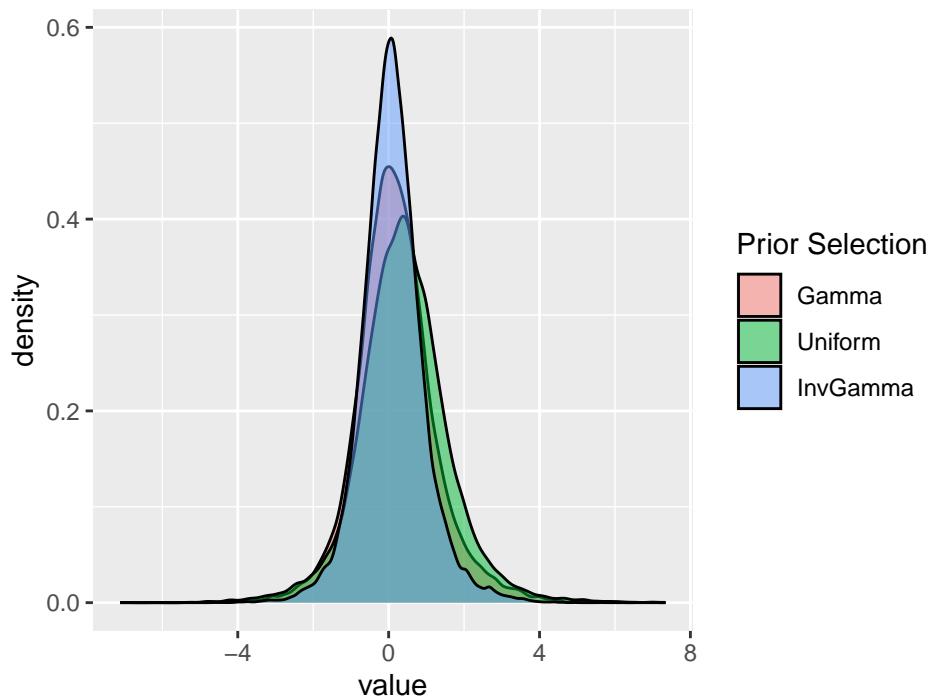
Posterior Density Plot of betaP[18]



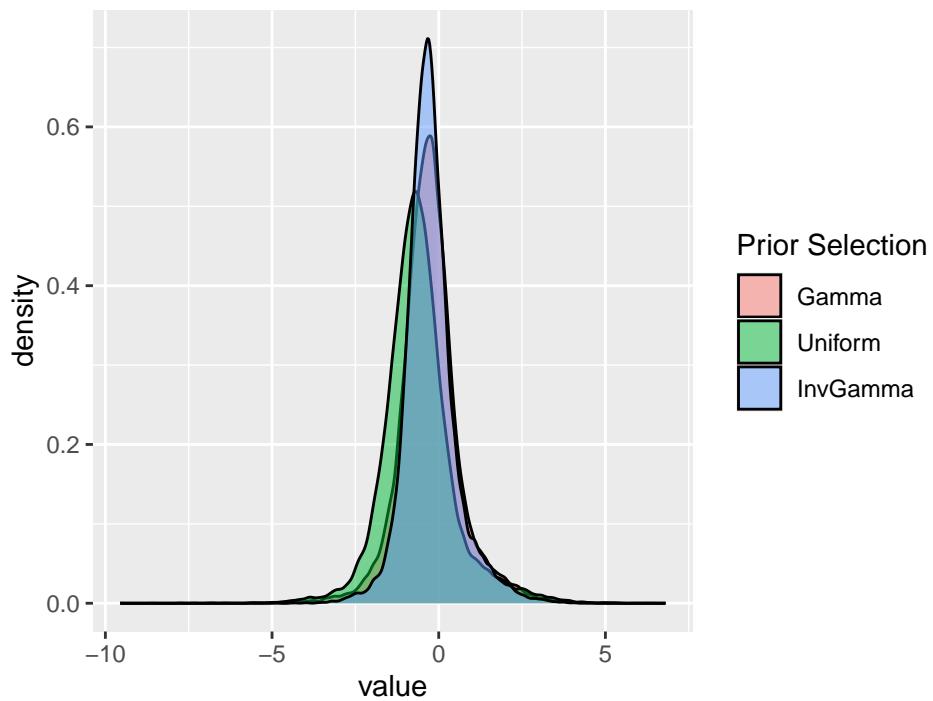
Posterior Density Plot of betaP[19]



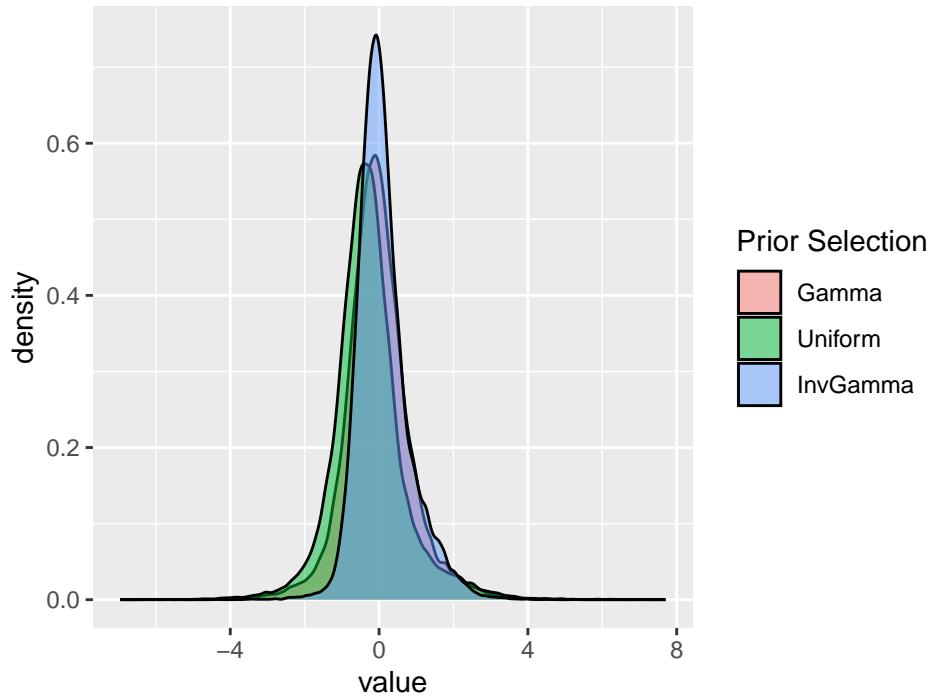
Posterior Density Plot of betaP[20]



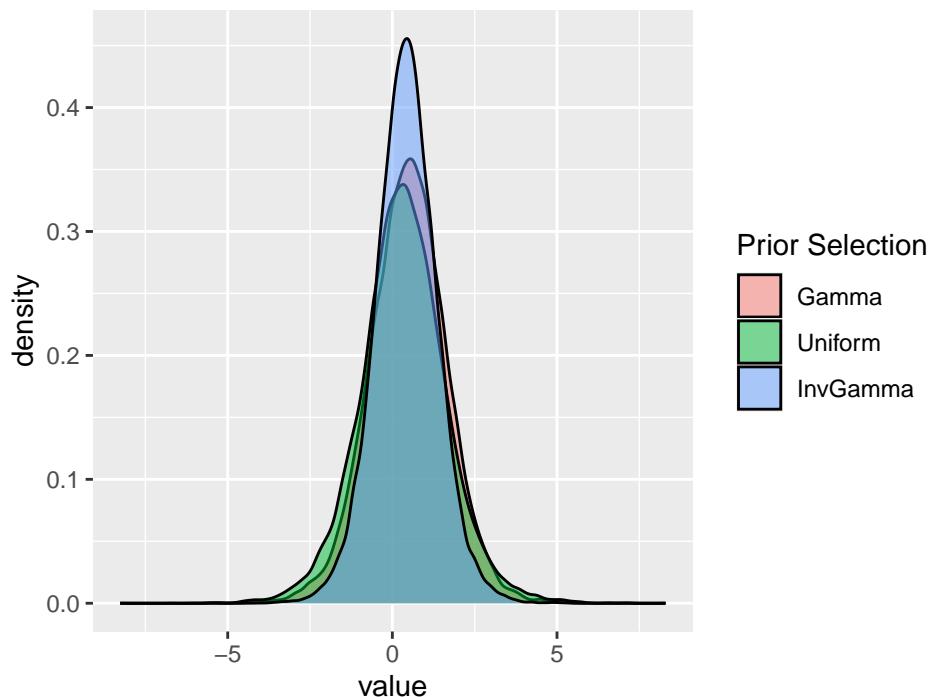
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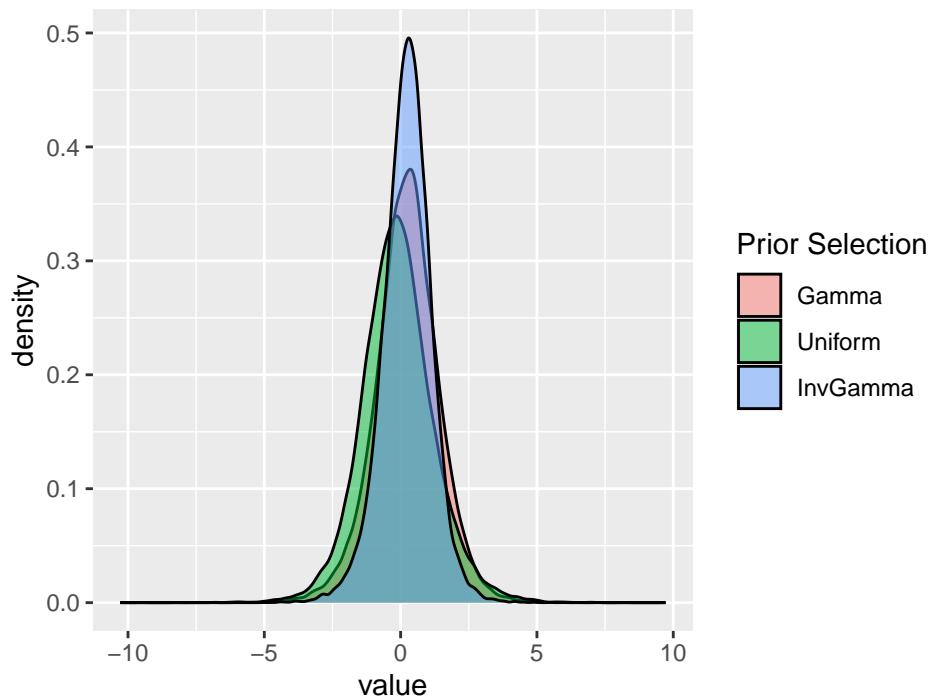
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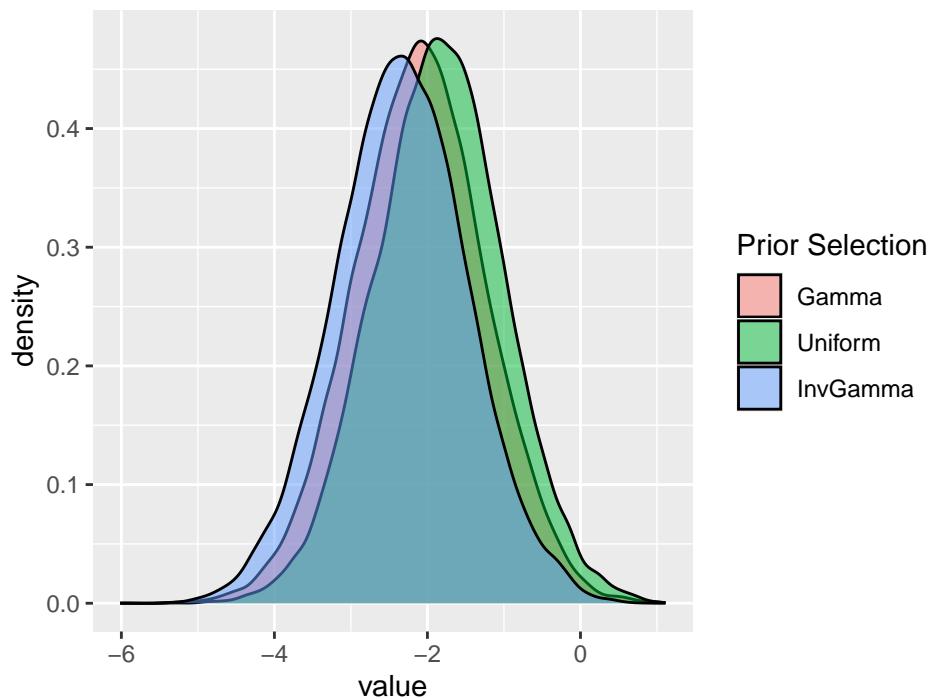
Posterior Density Plot of betaP[23]



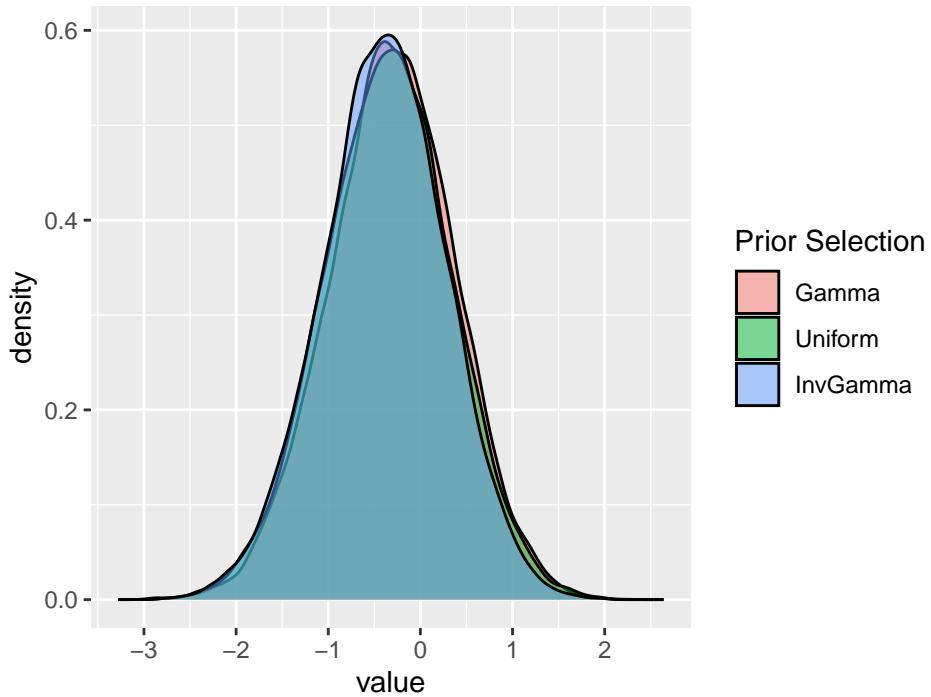
Posterior Density Plot of betaP[24]



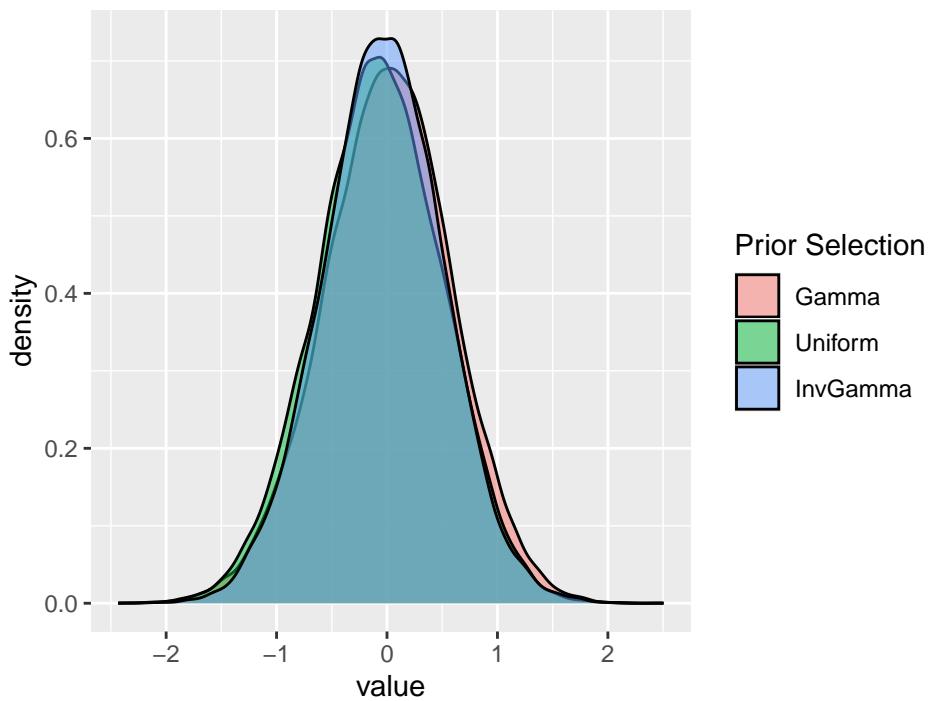
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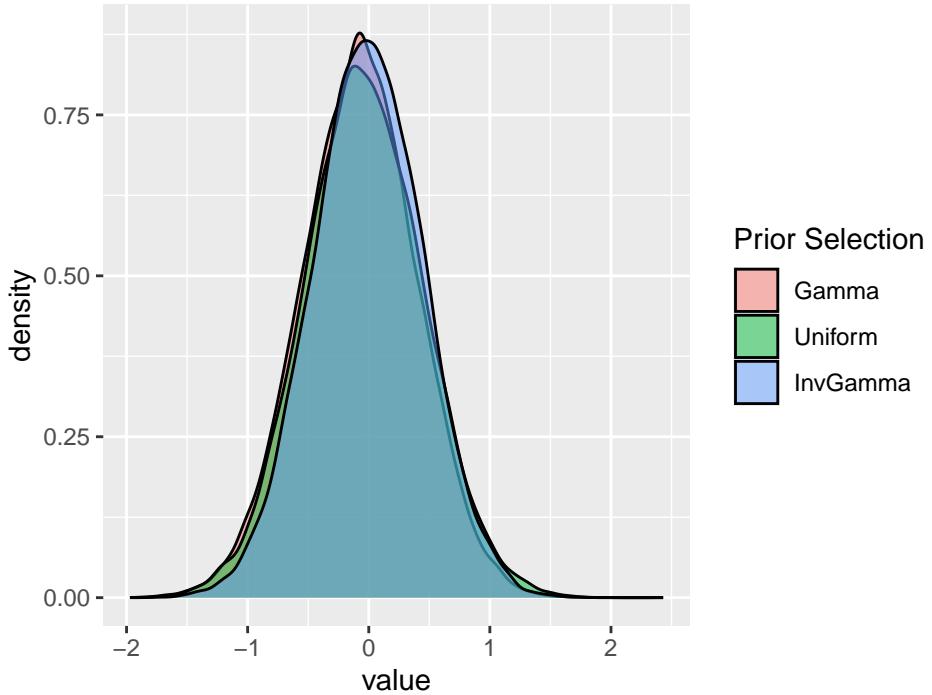
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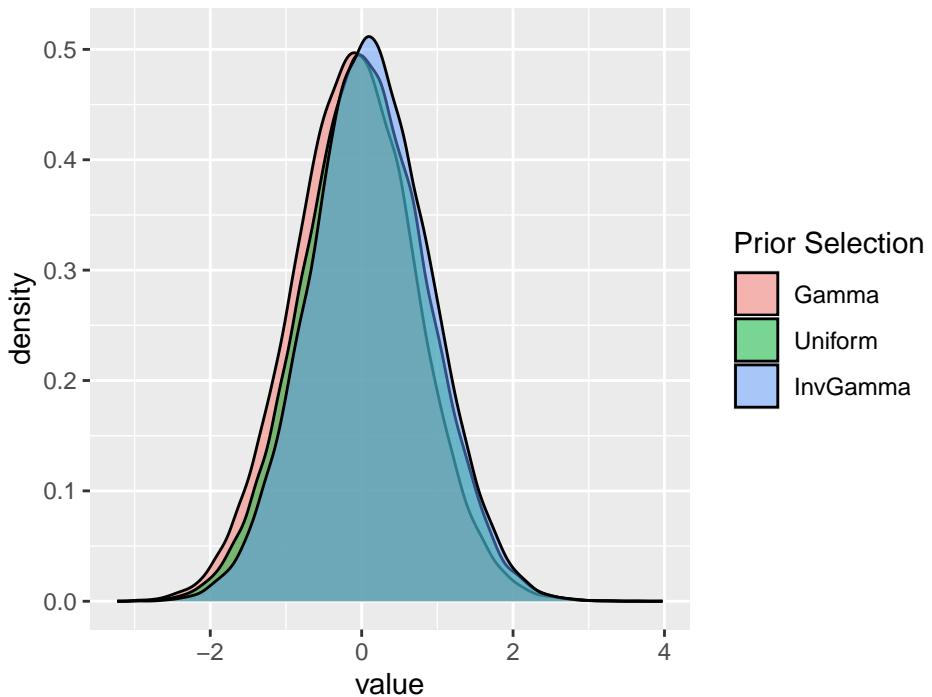
Posterior Density Plot of alphaP[3]



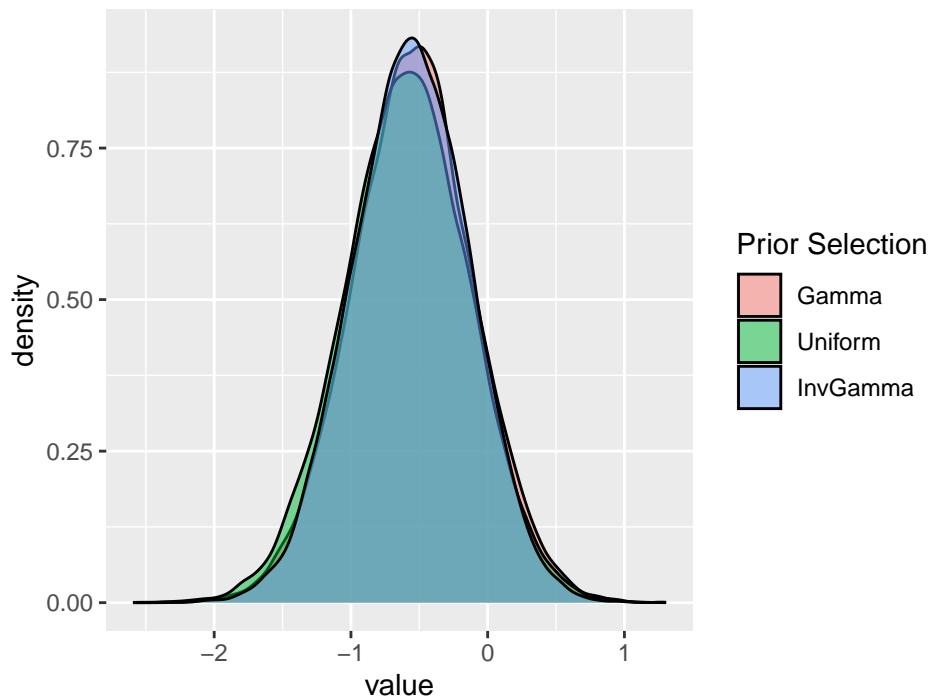
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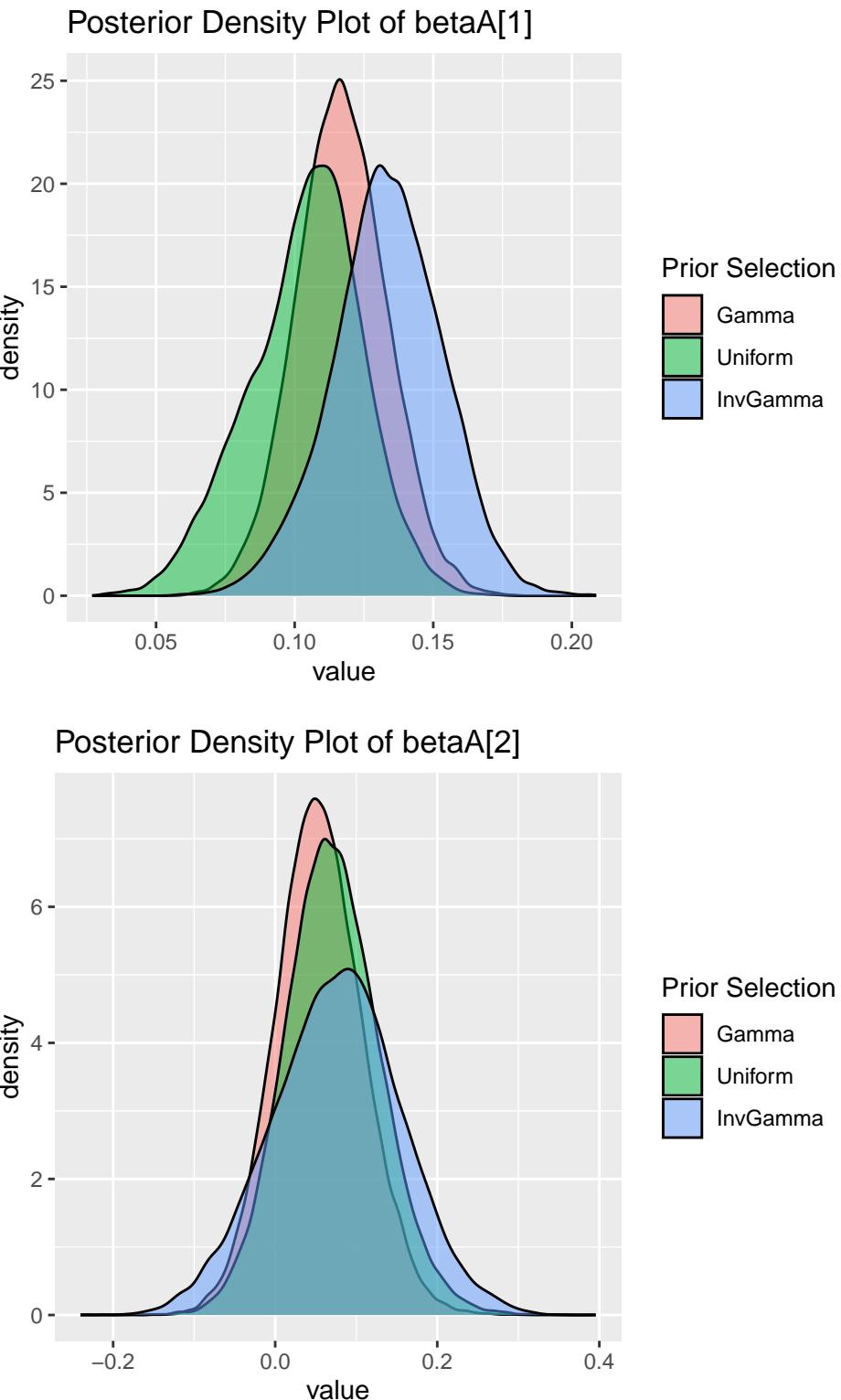
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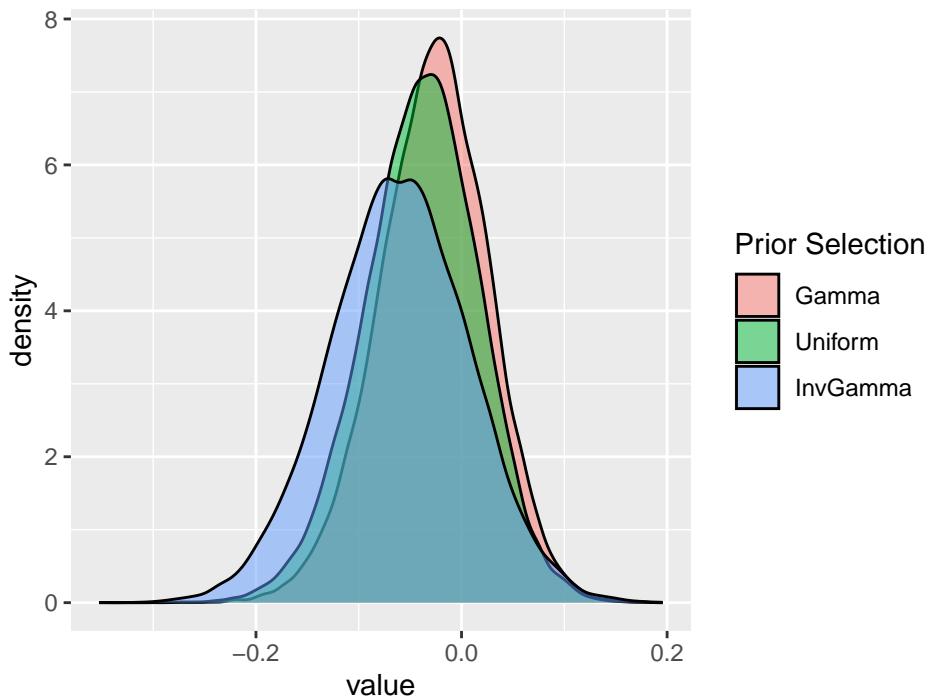
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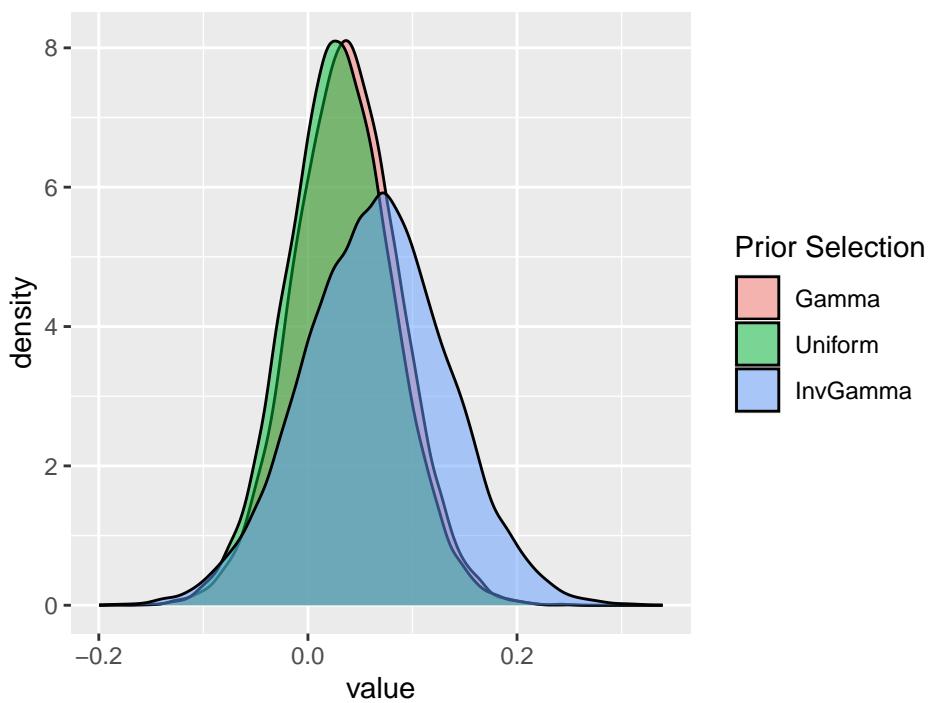
## Antibody Levels (A)



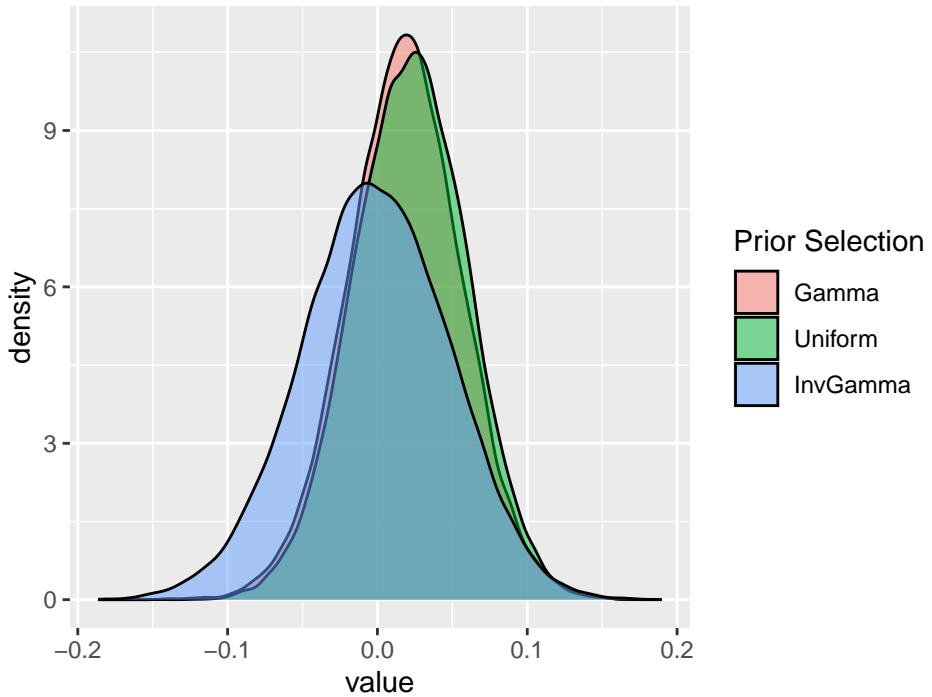
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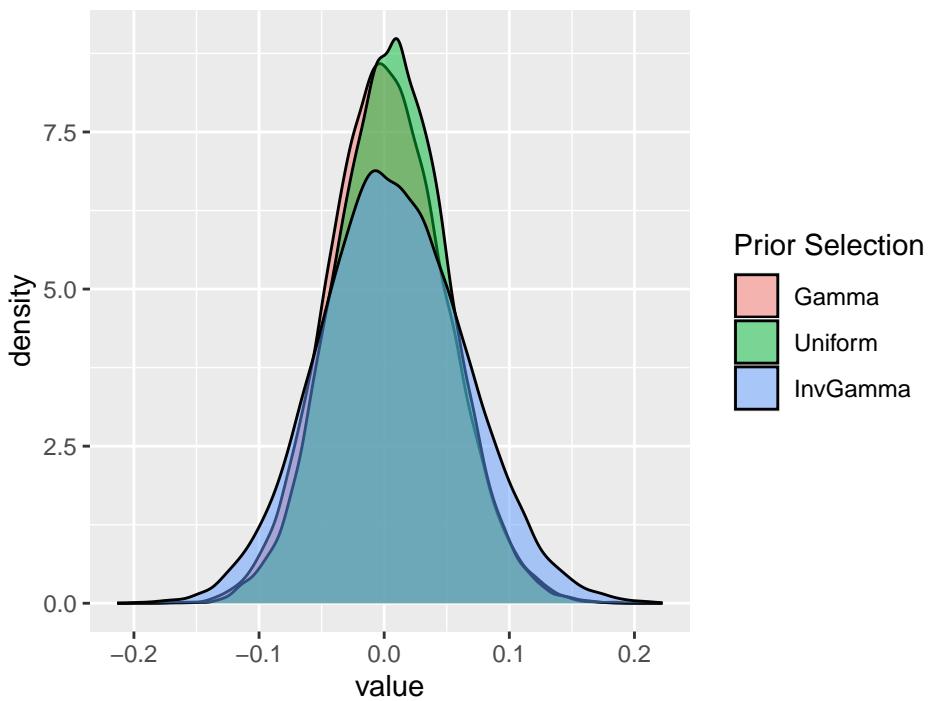
Posterior Density Plot of betaA[4]



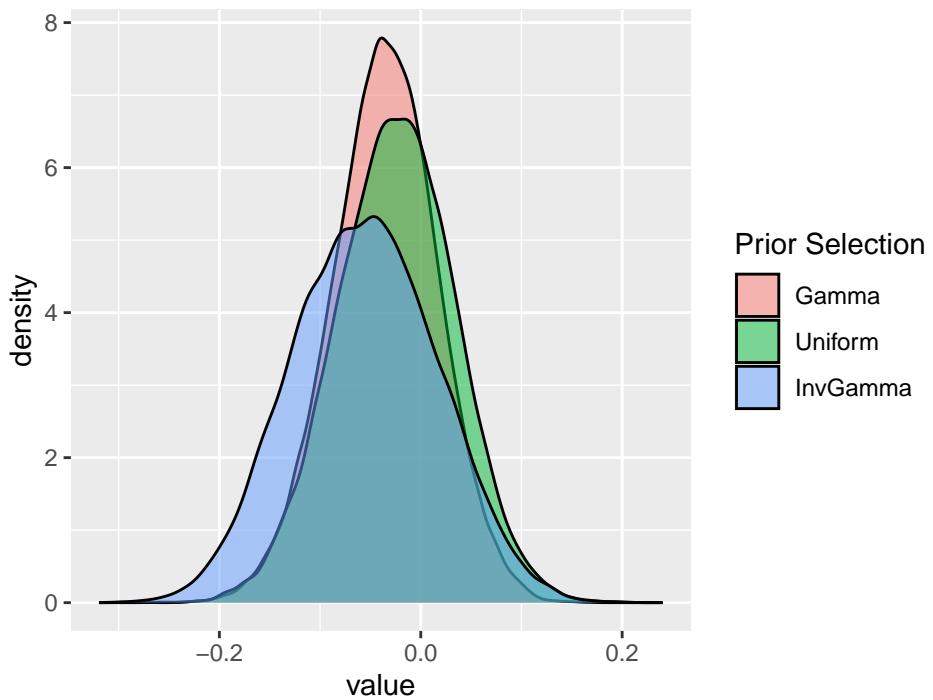
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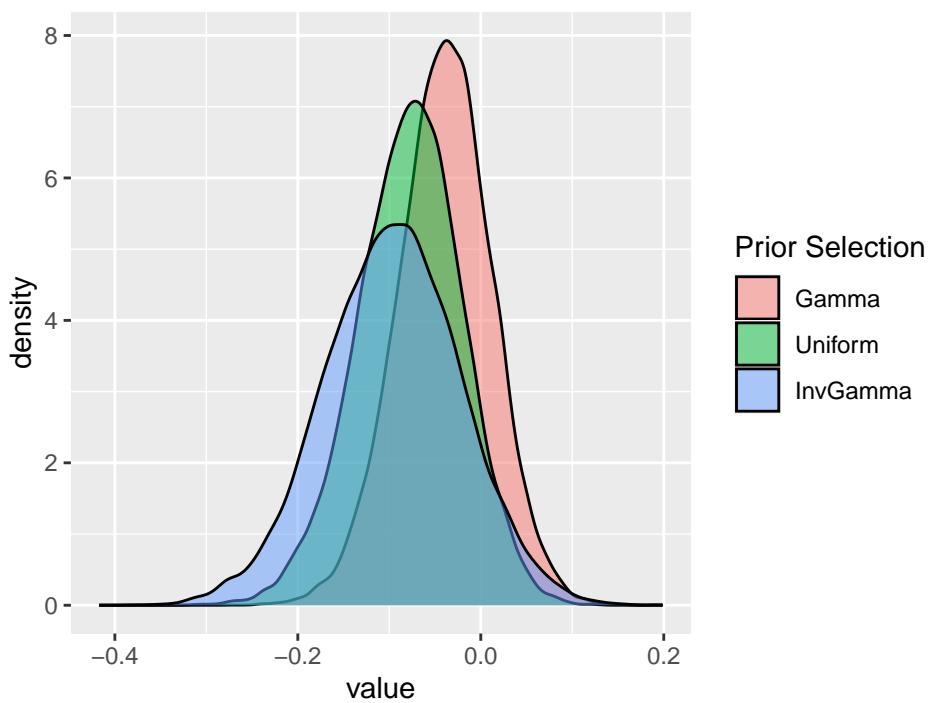
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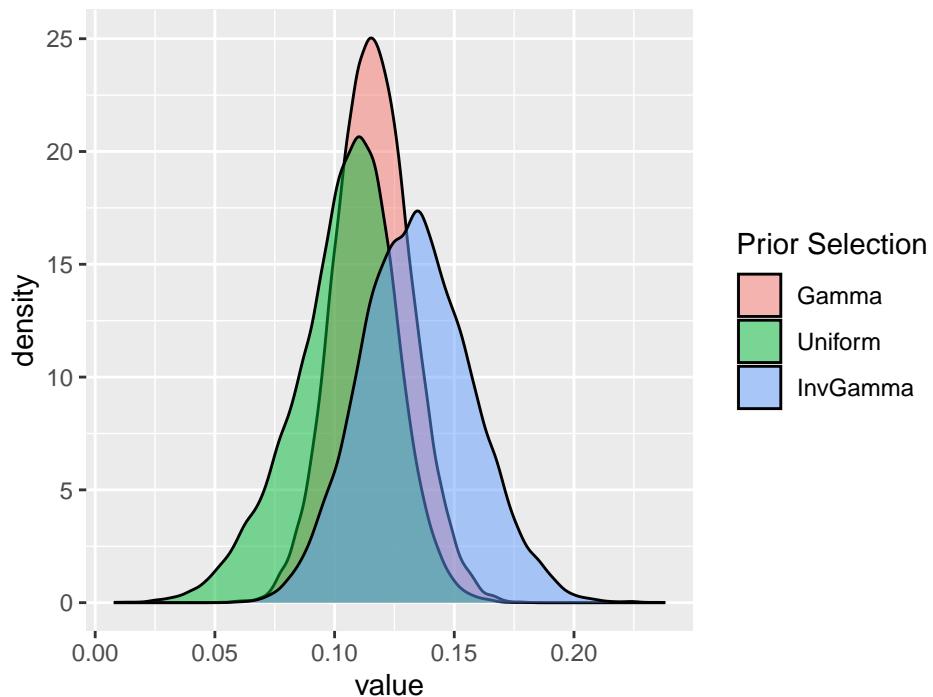
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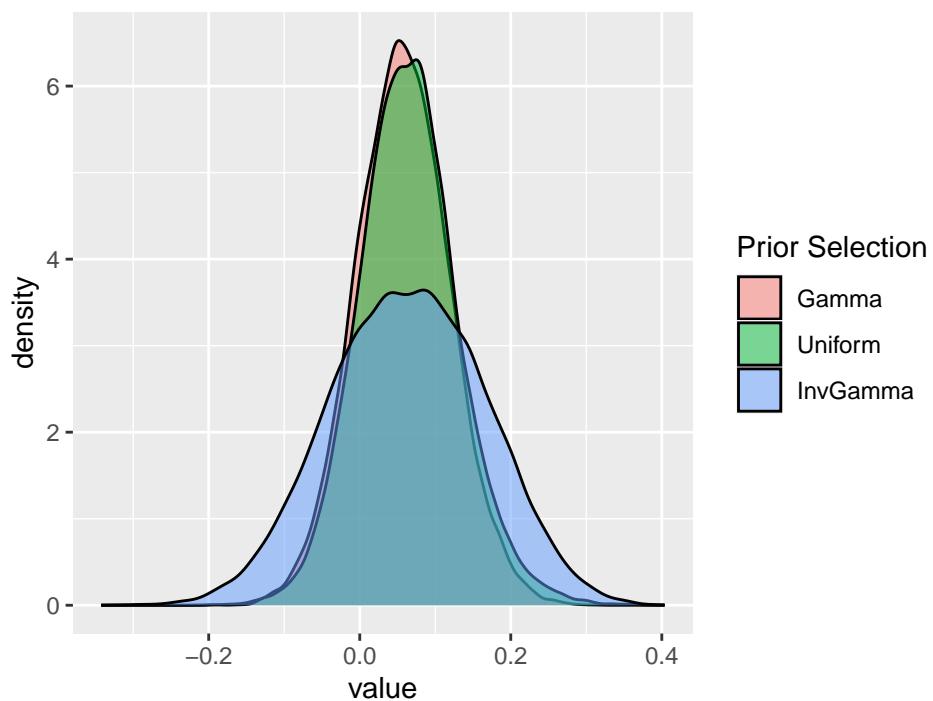
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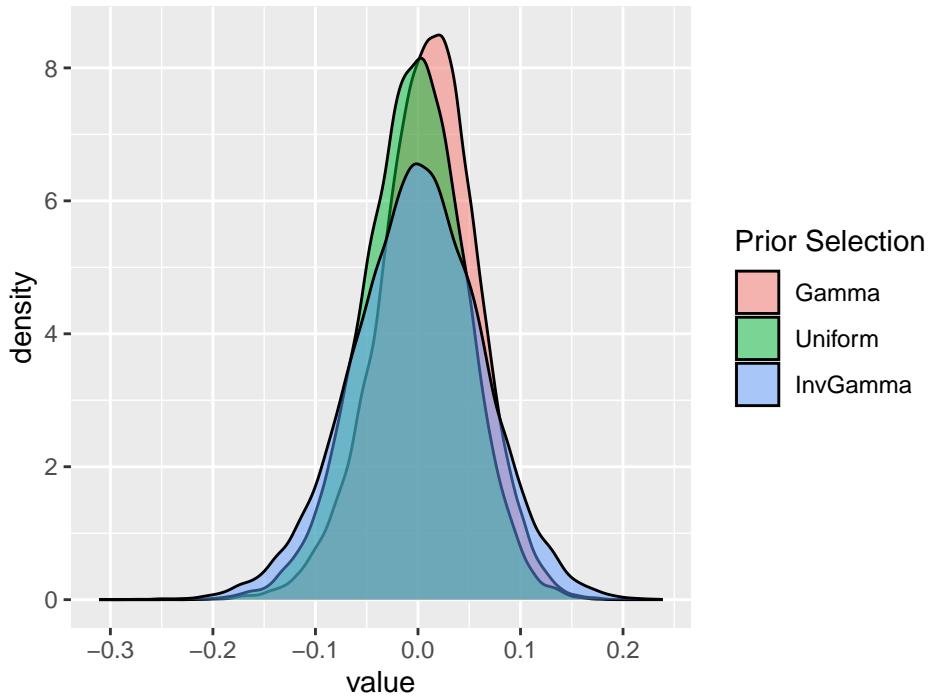
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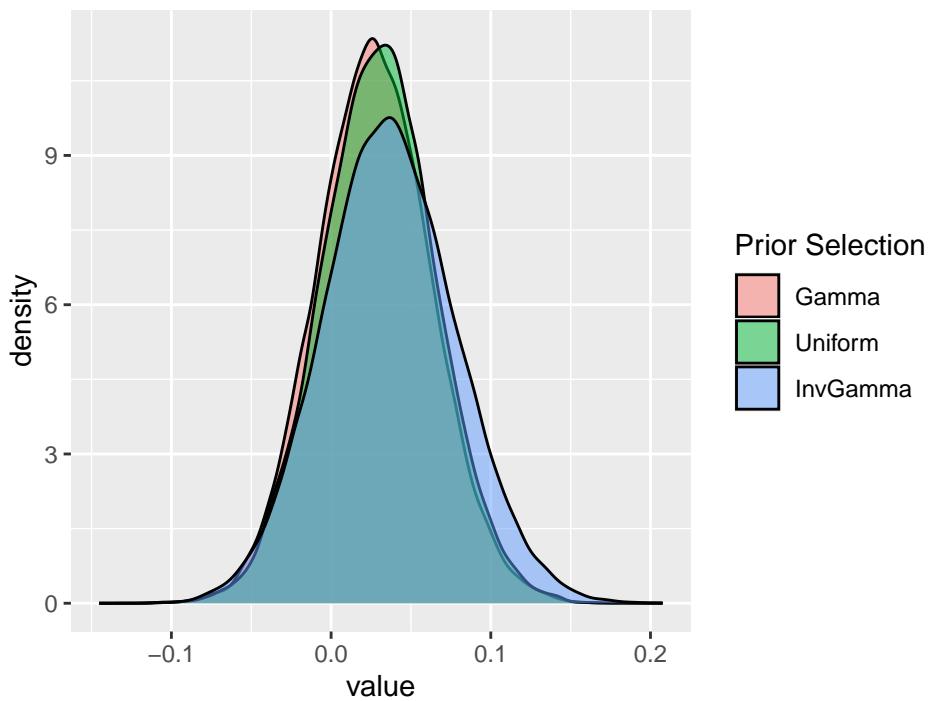
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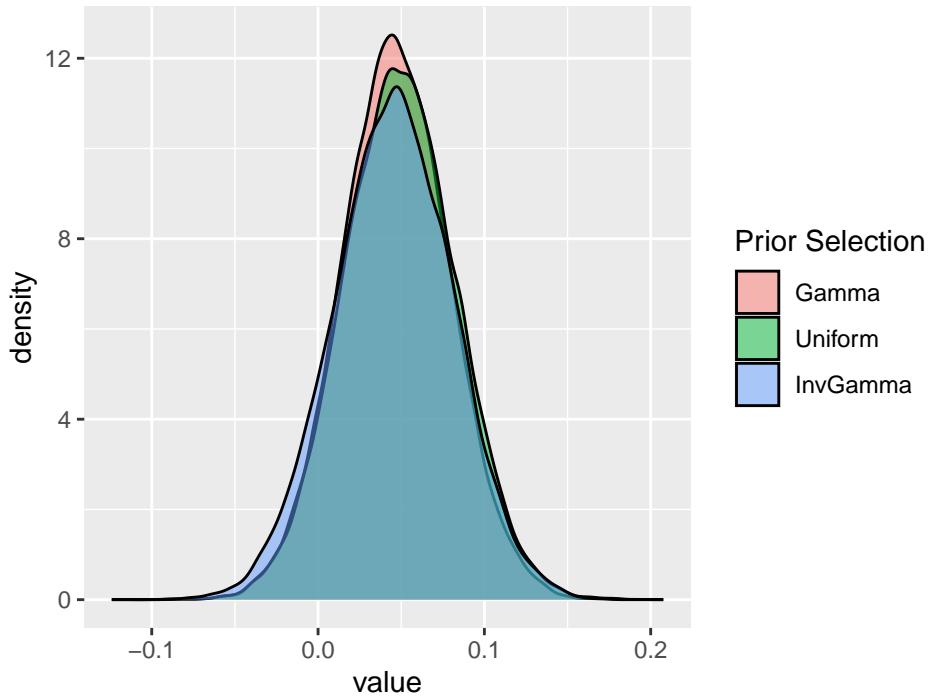
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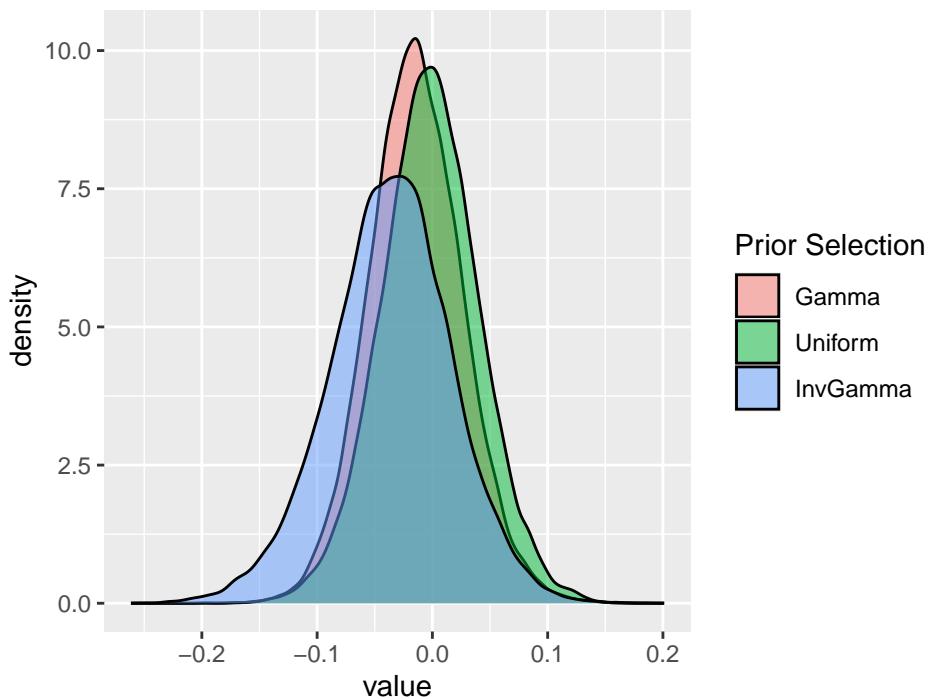
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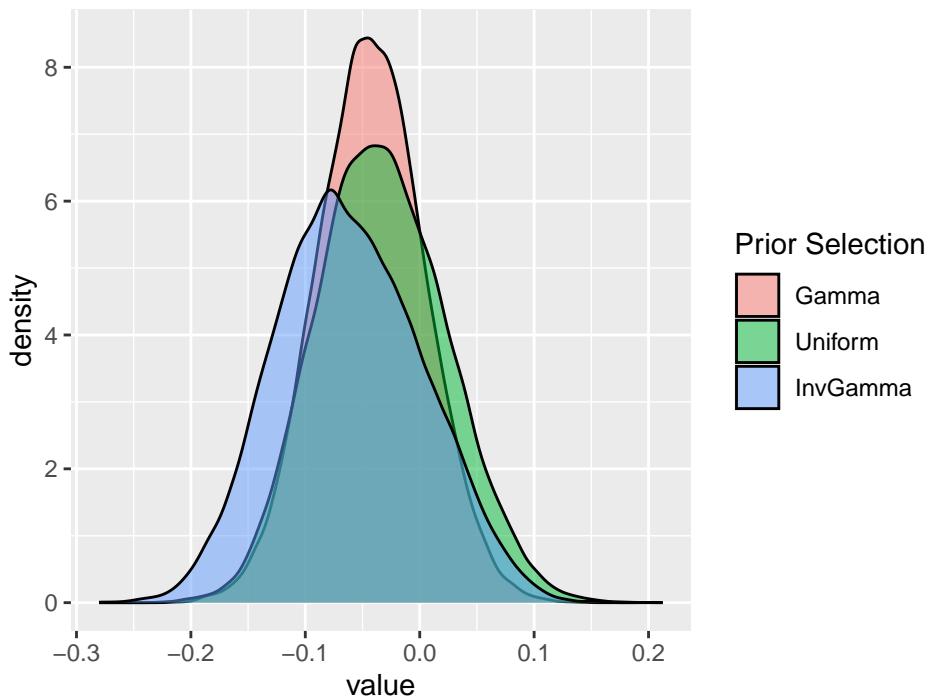
Posterior Density Plot of betaA[13]



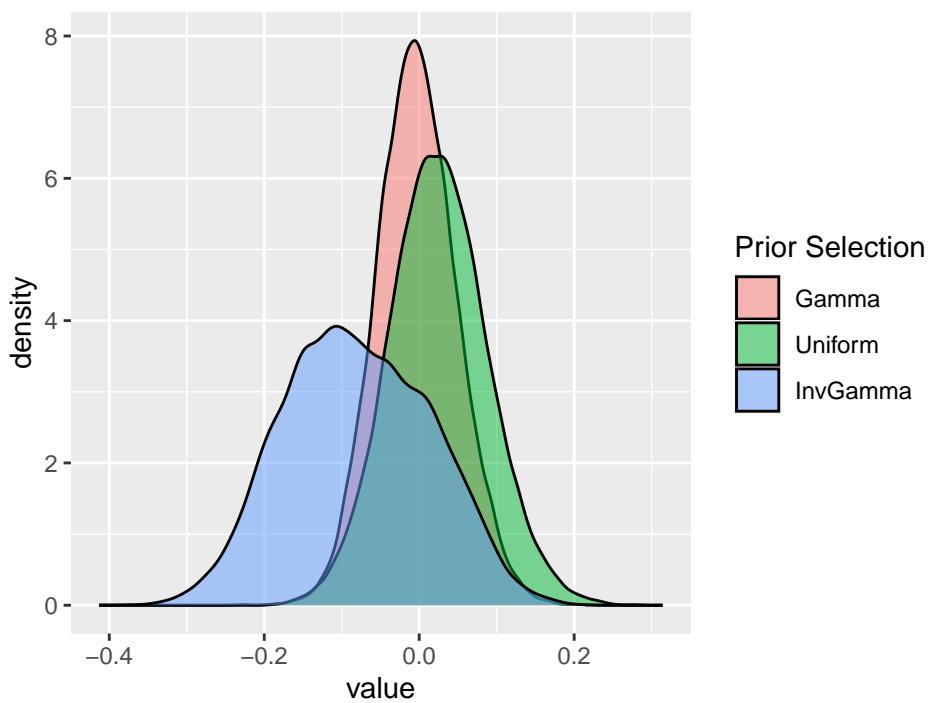
Posterior Density Plot of betaA[14]



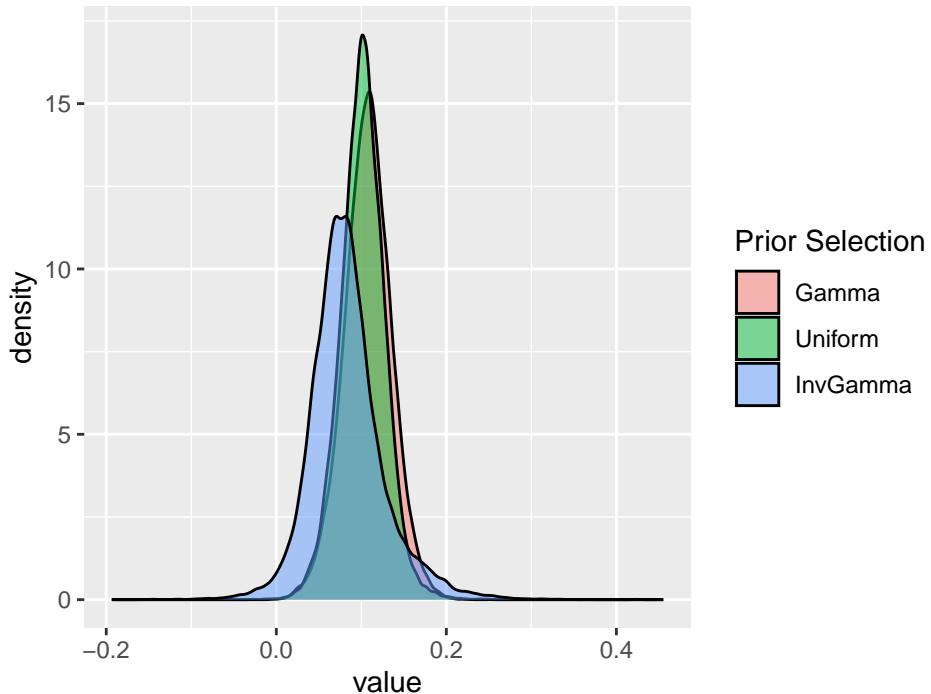
Posterior Density Plot of betaA[15]



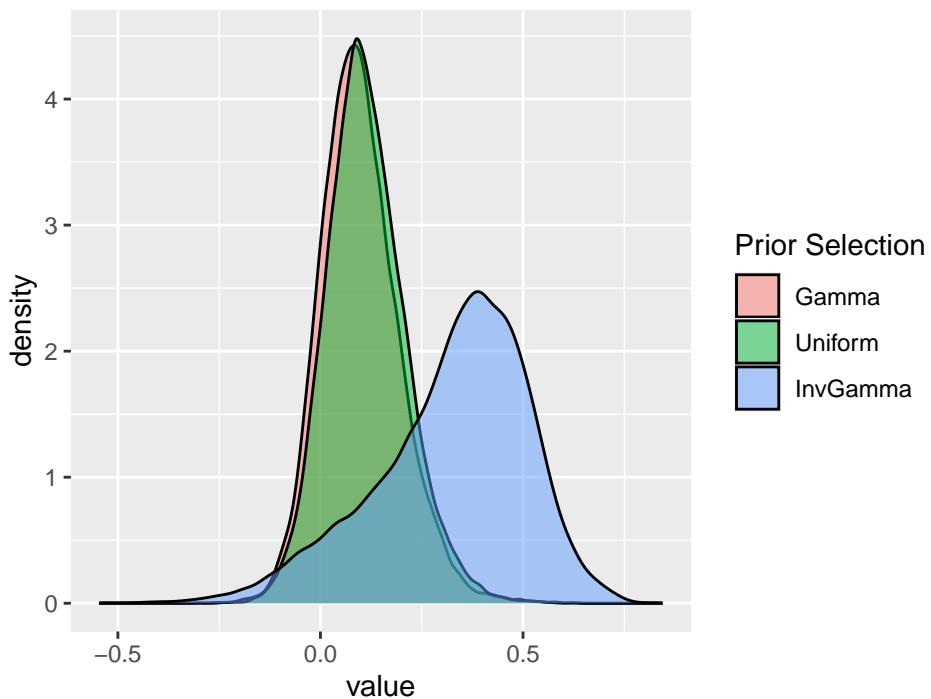
Posterior Density Plot of betaA[16]



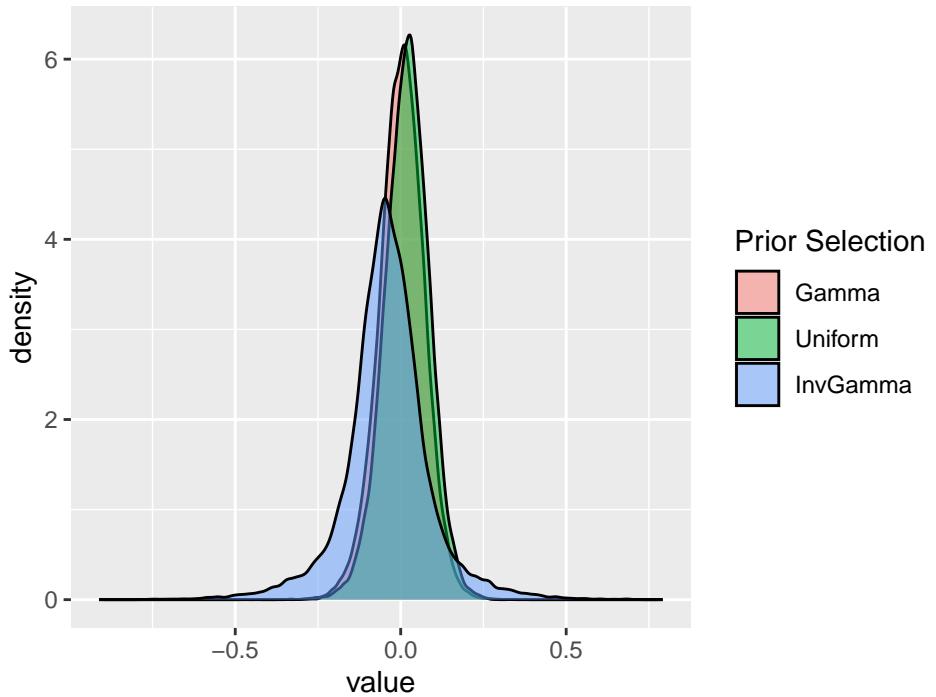
Posterior Density Plot of betaA[17]



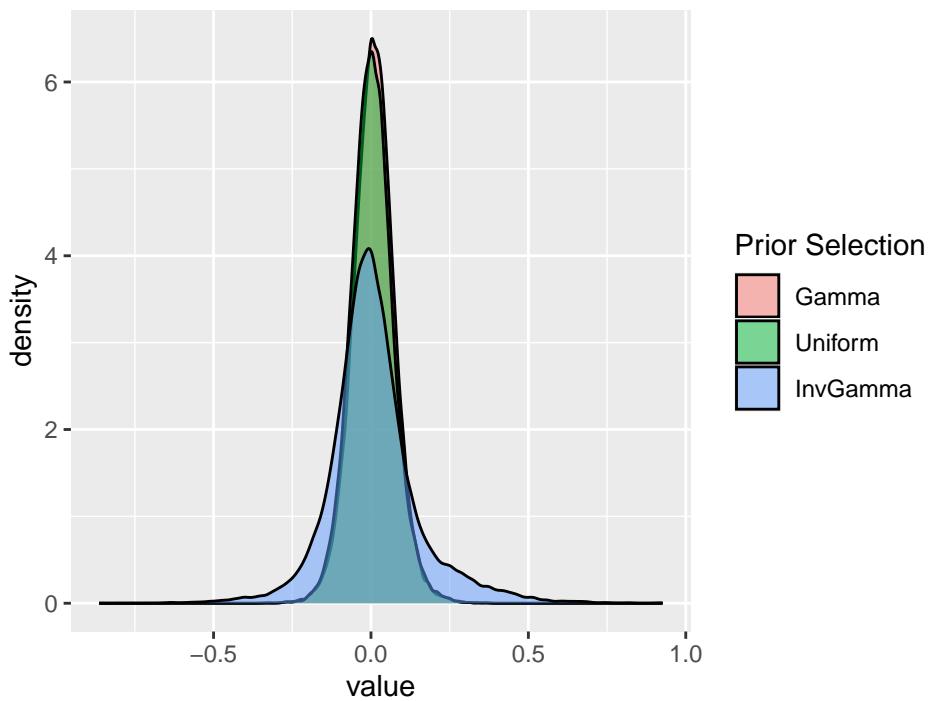
Posterior Density Plot of betaA[18]



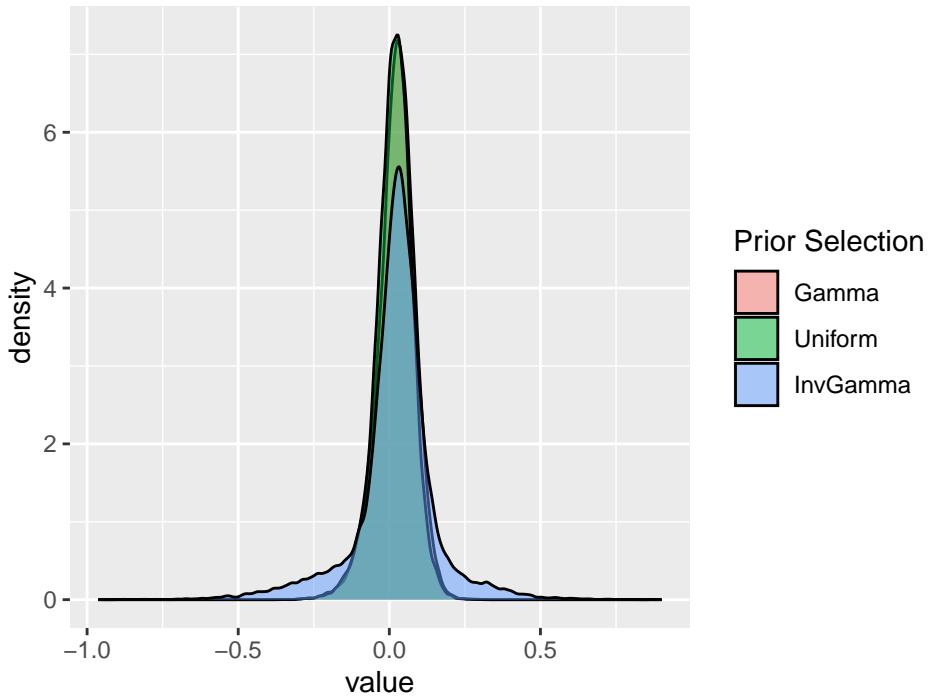
Posterior Density Plot of betaA[19]



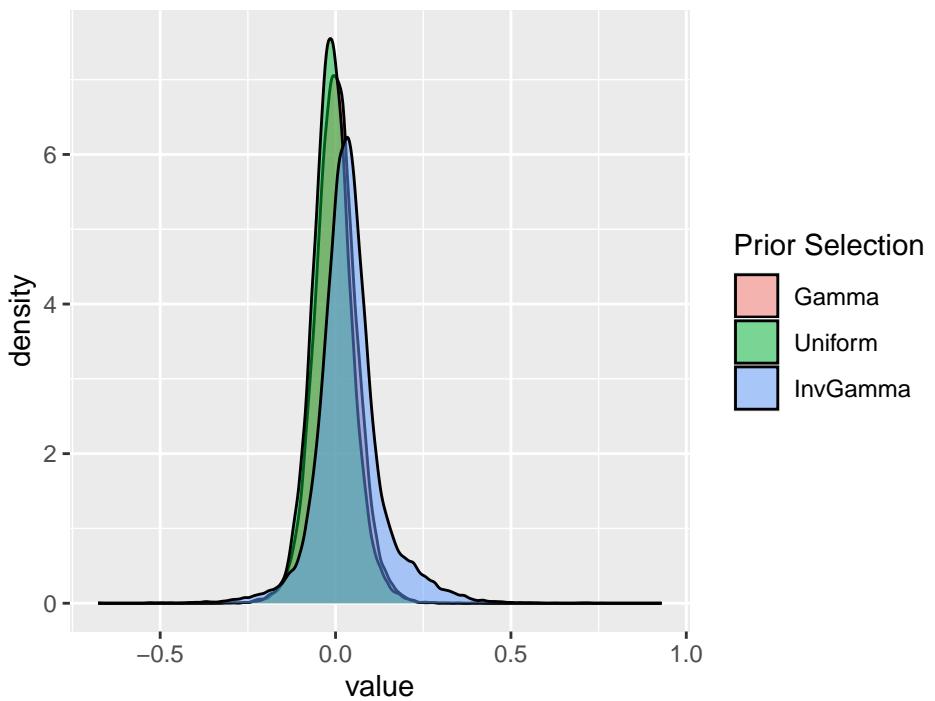
Posterior Density Plot of betaA[20]



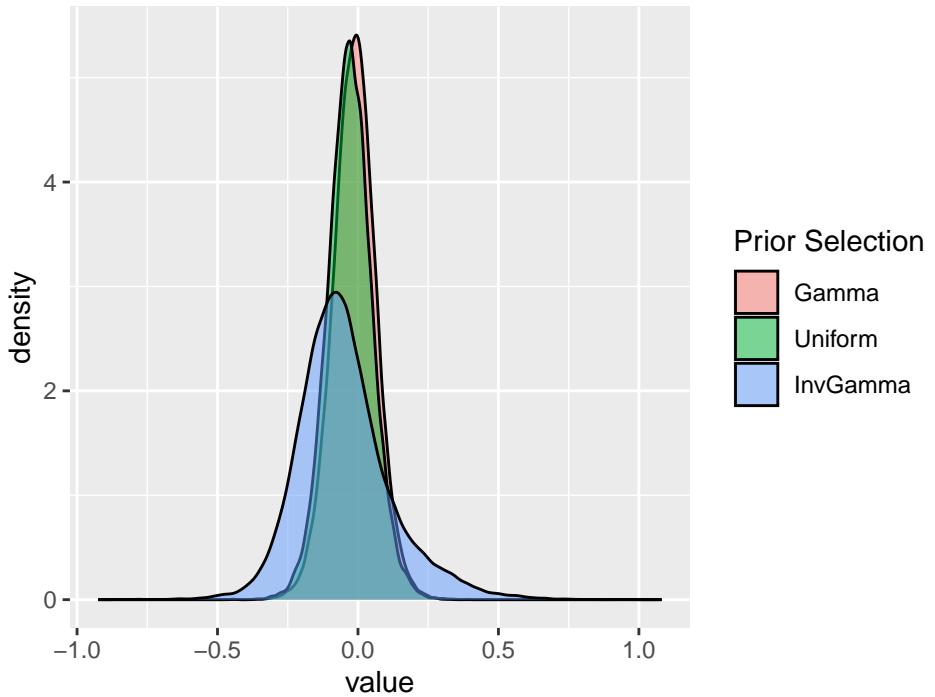
Posterior Density Plot of betaA[21]



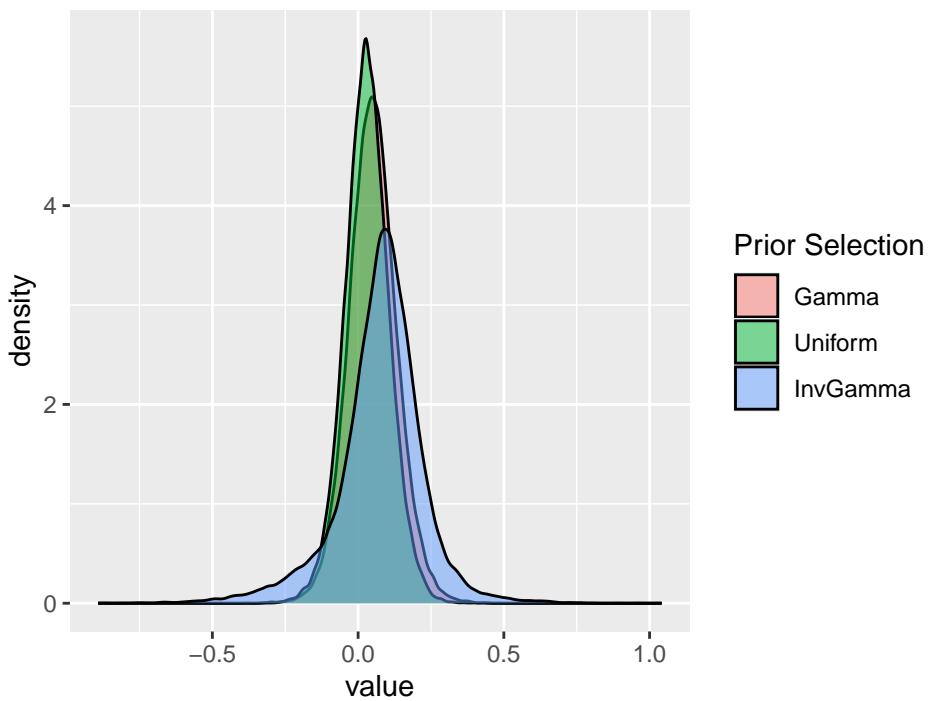
Posterior Density Plot of betaA[22]



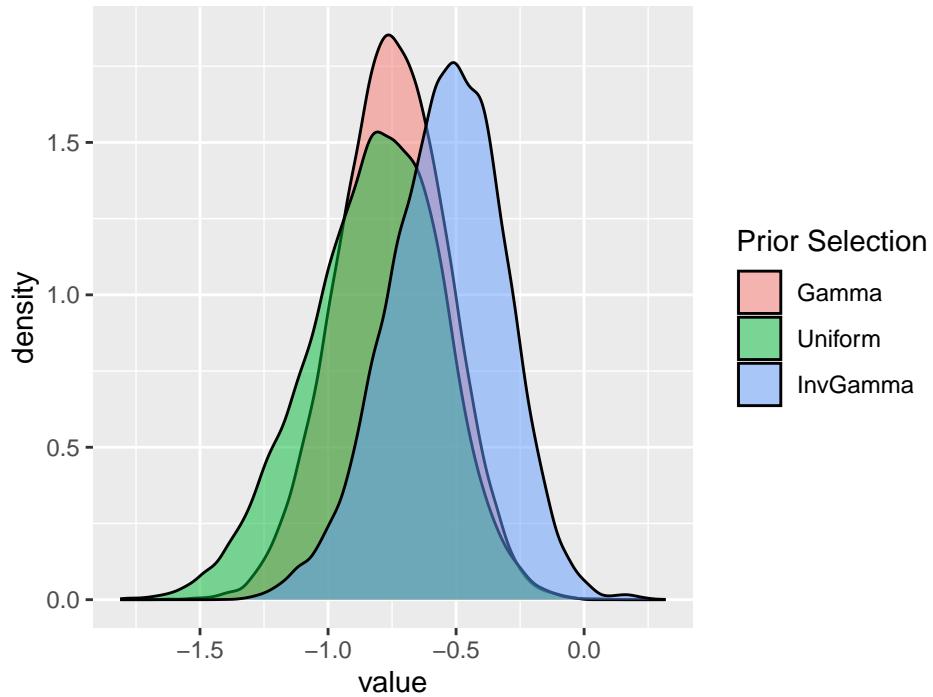
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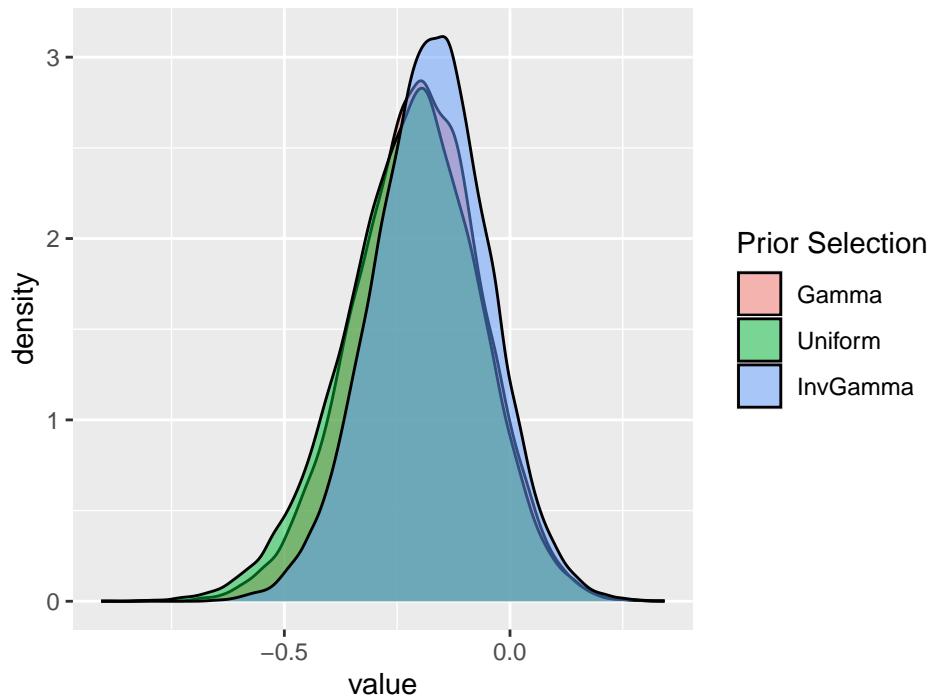
Posterior Density Plot of betaA[24]



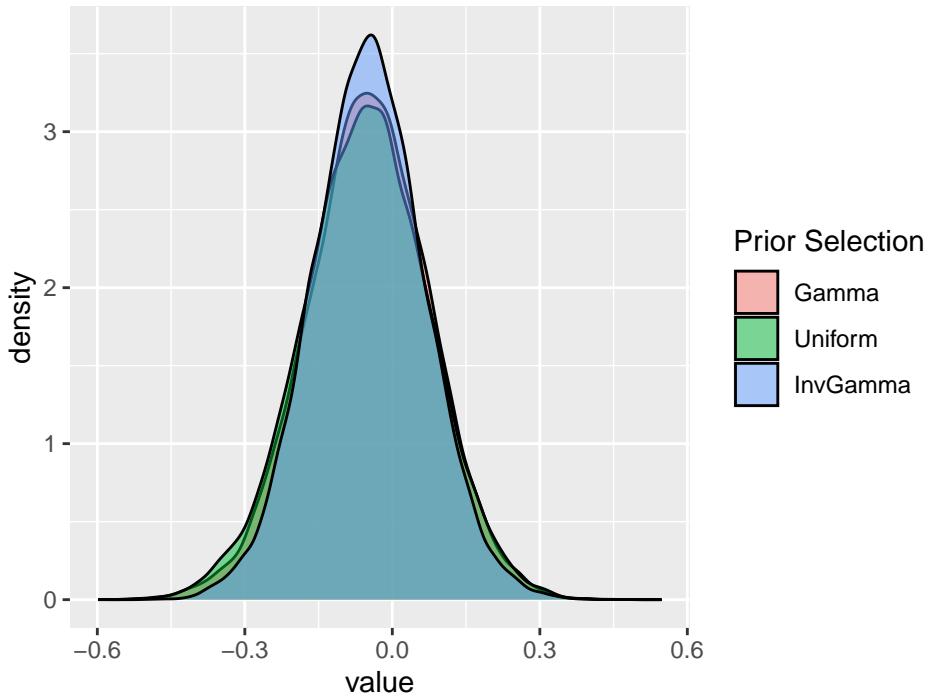
Posterior Density Plot of alphaA[1]



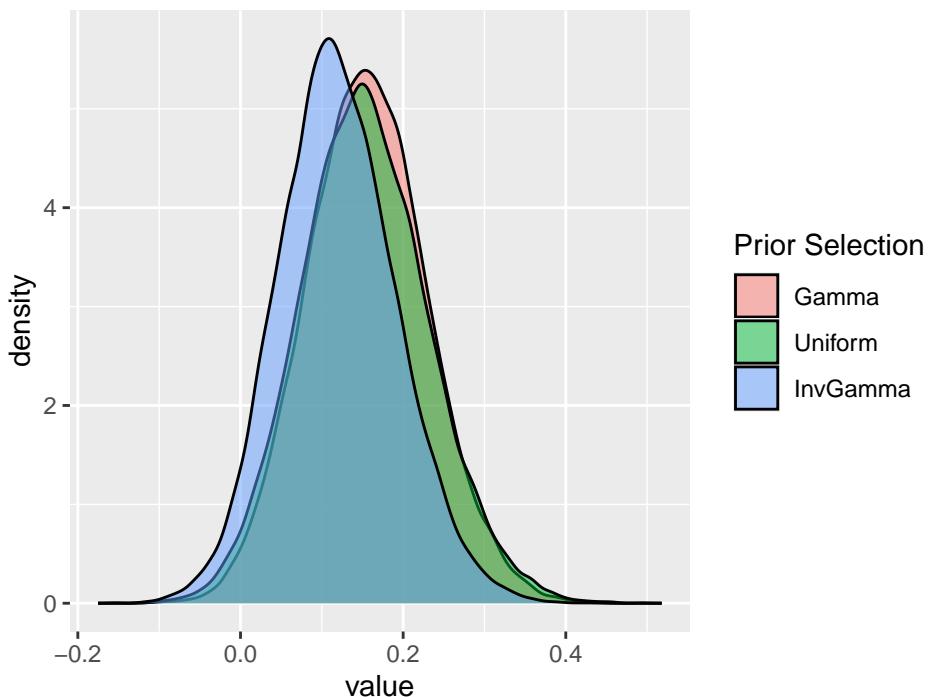
Posterior Density Plot of alphaA[2]



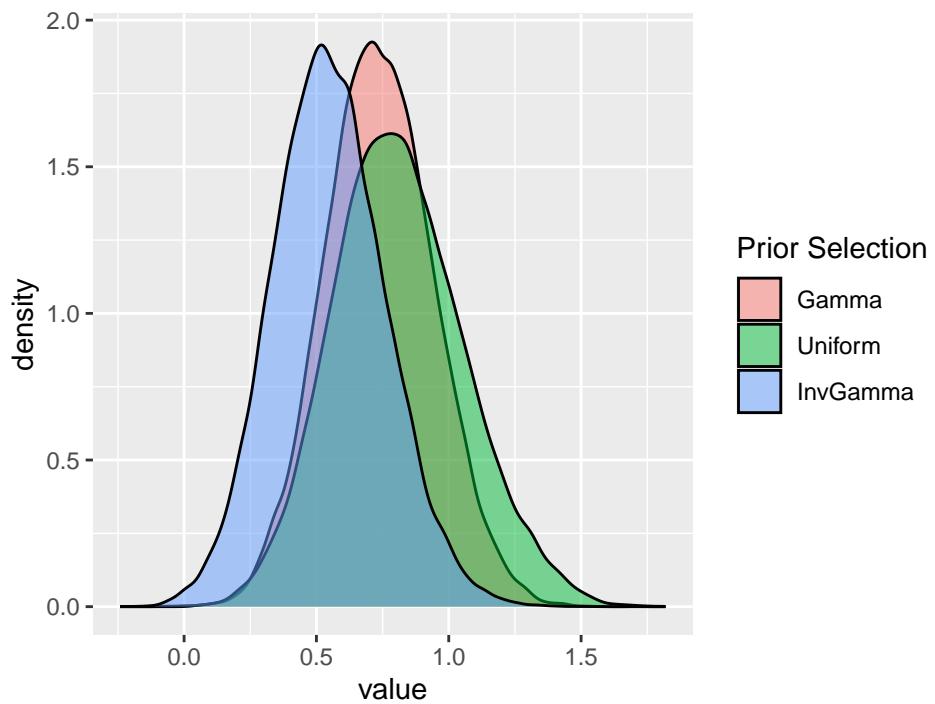
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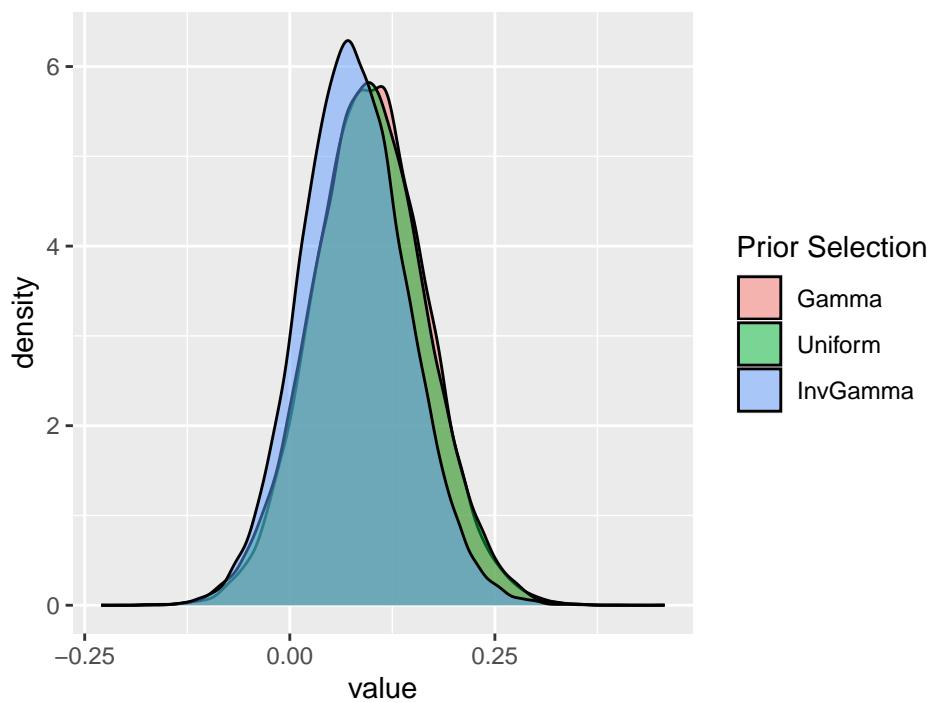
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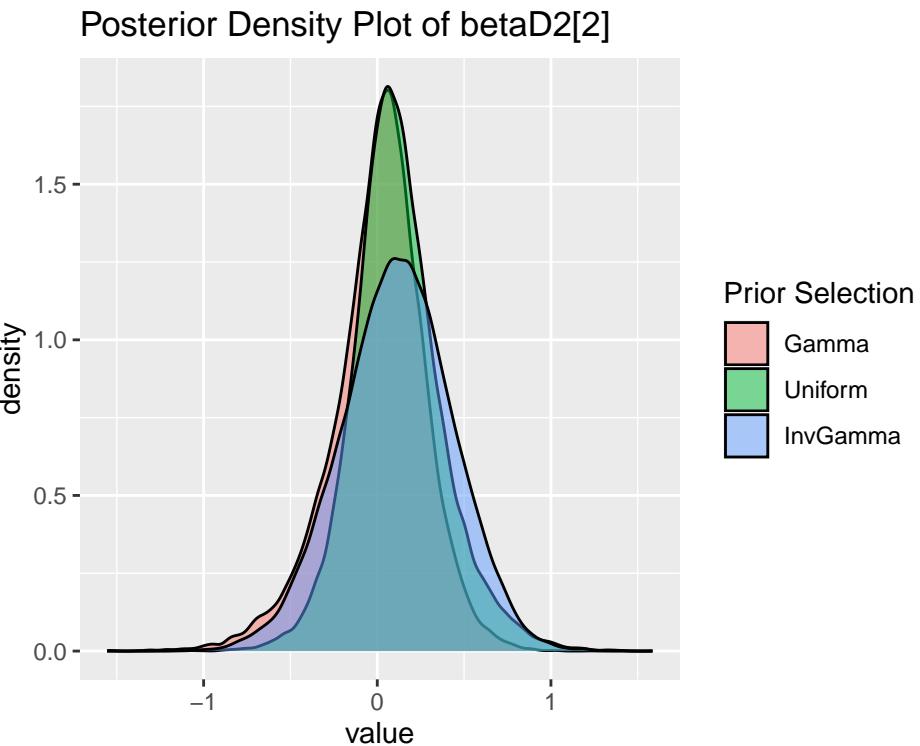
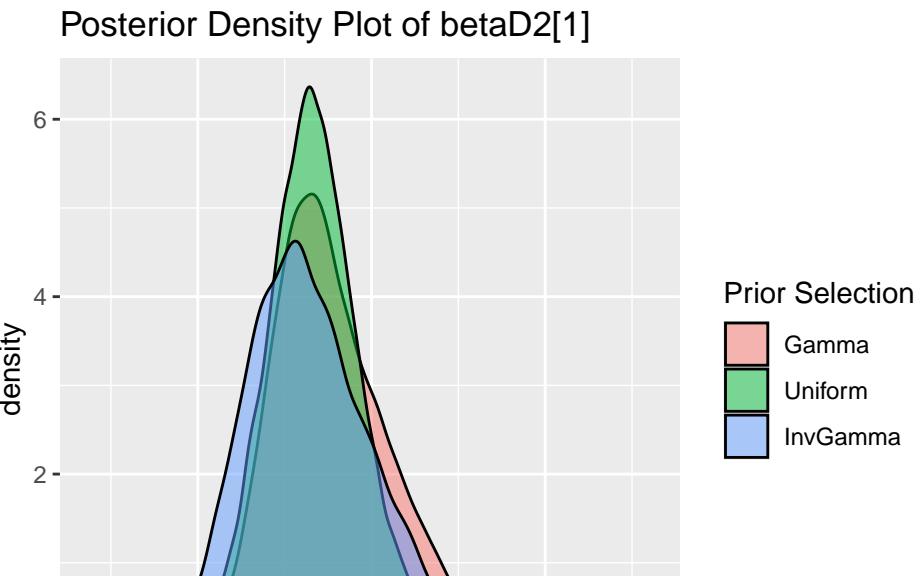
Posterior Density Plot of alphaA[5]



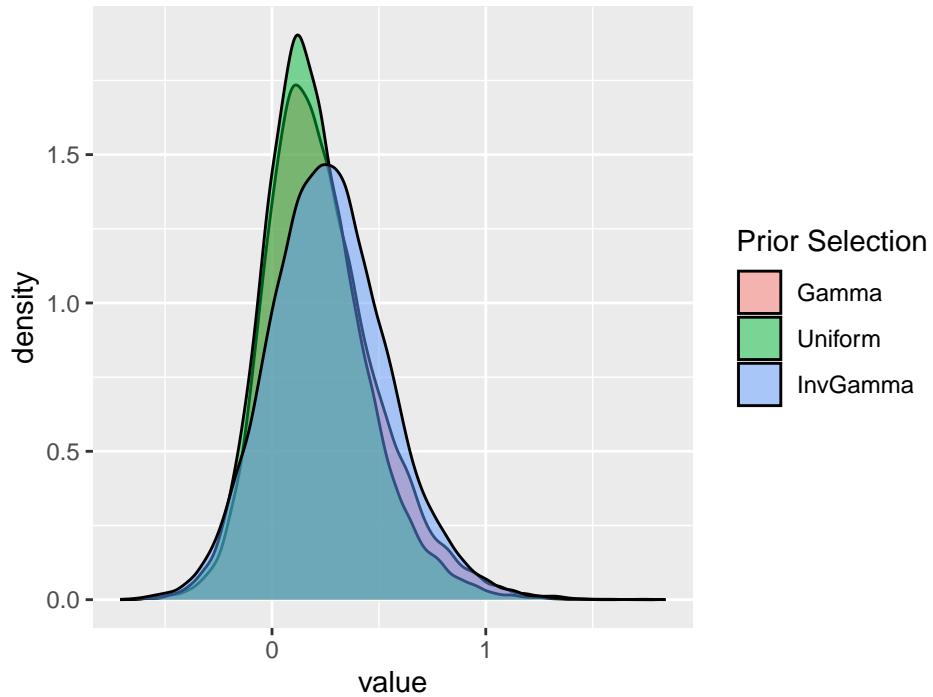
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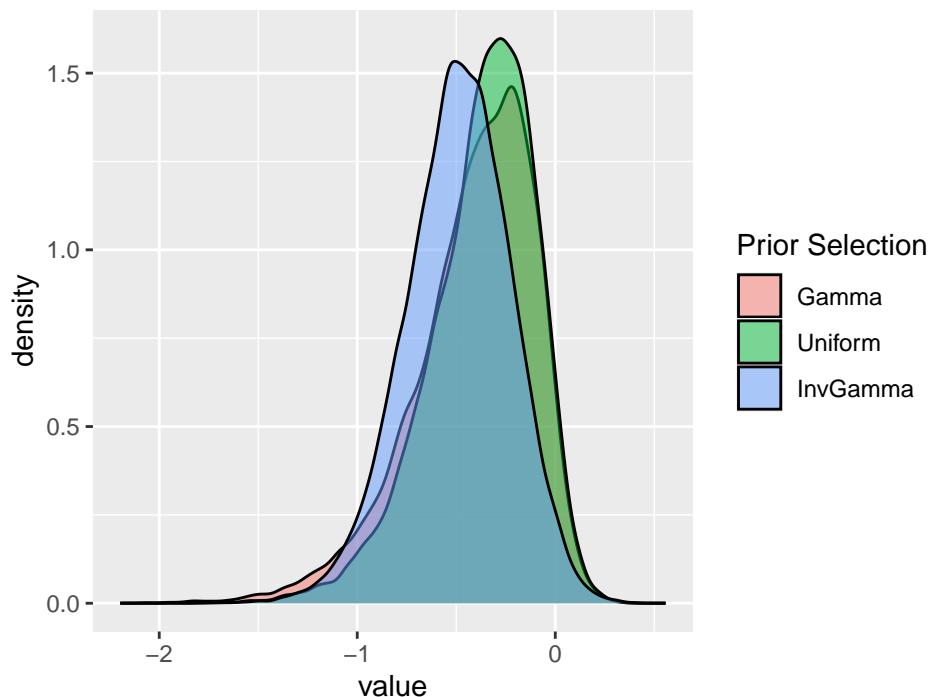
Disease Status (D)



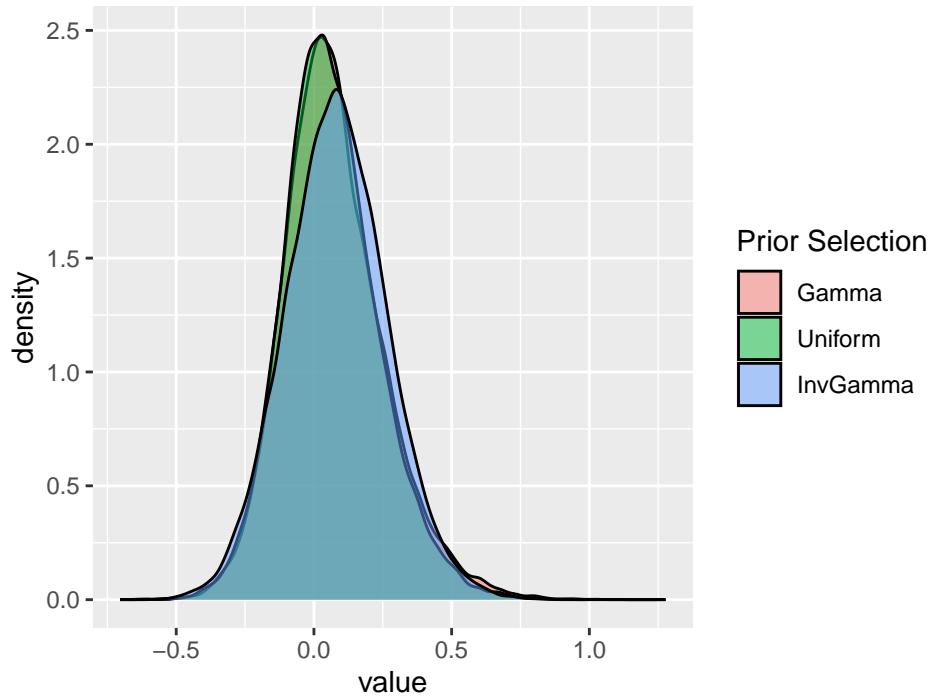
Posterior Density Plot of betaD2[3]



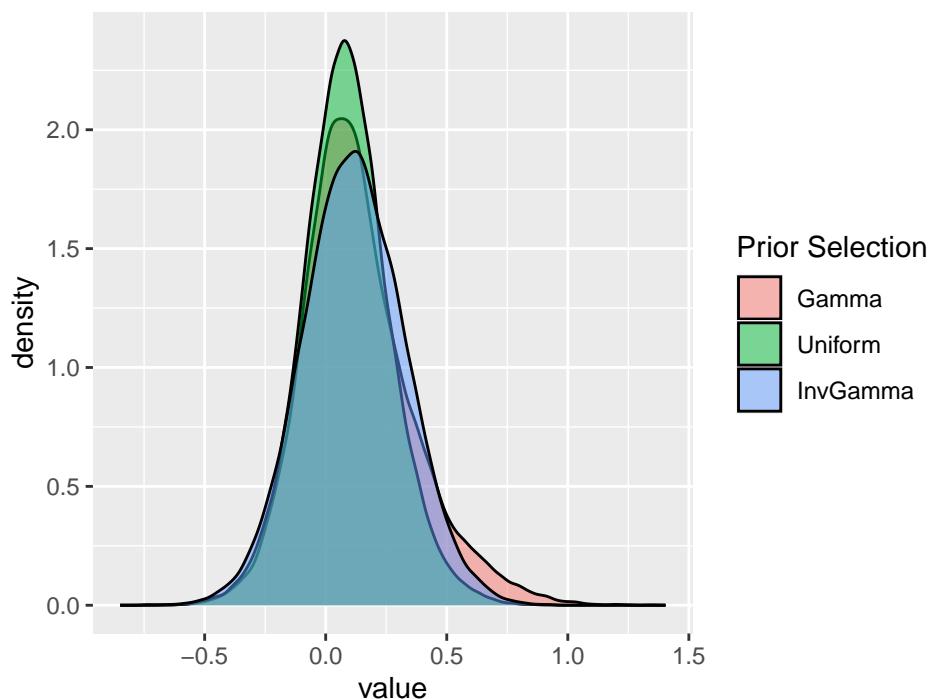
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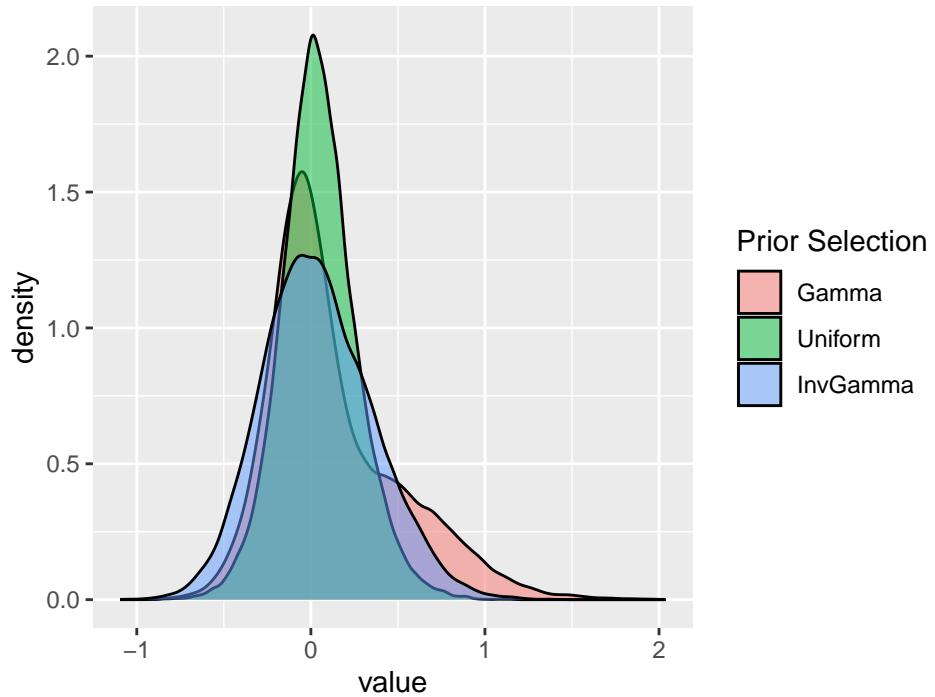
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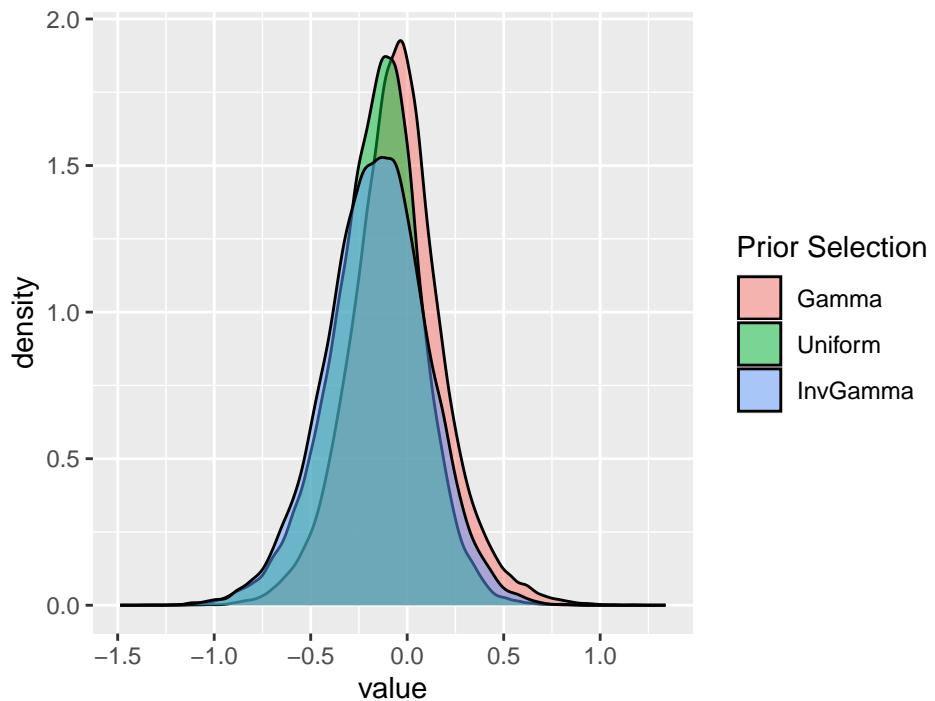
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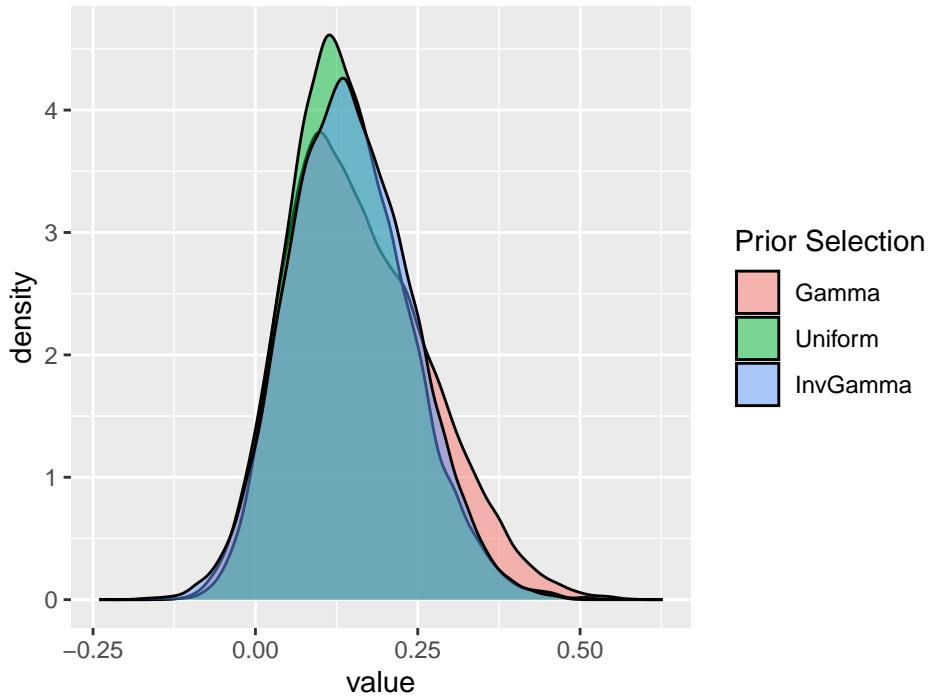
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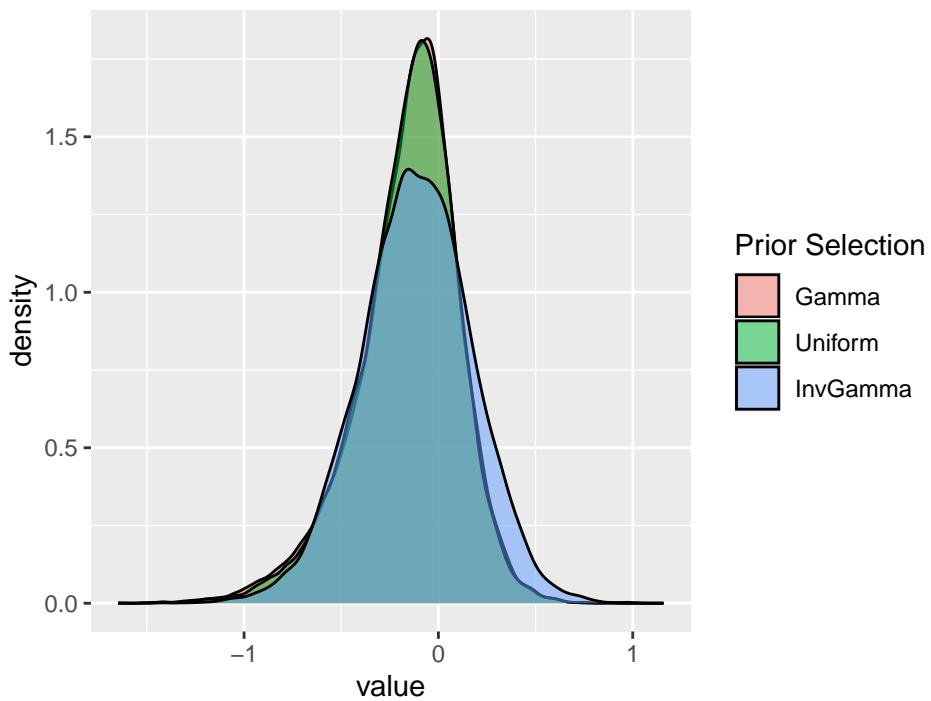
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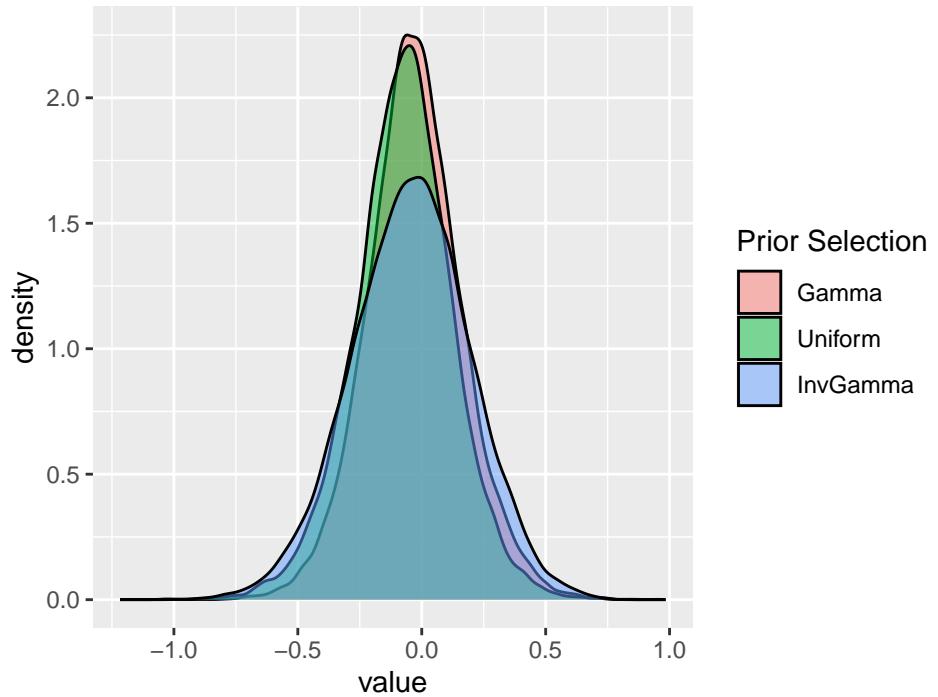
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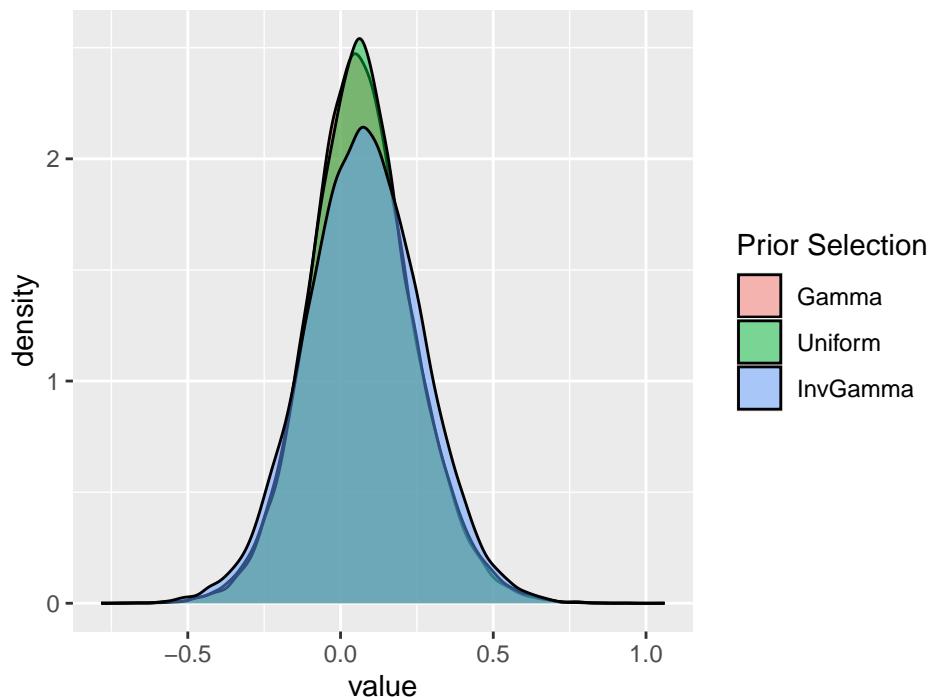
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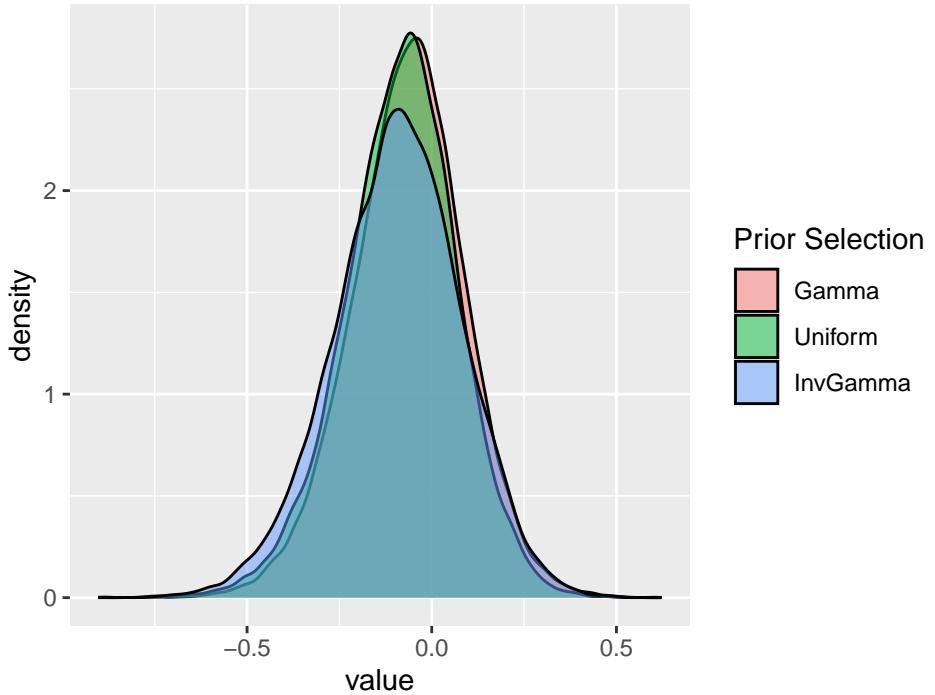
Posterior Density Plot of betaD2[11]



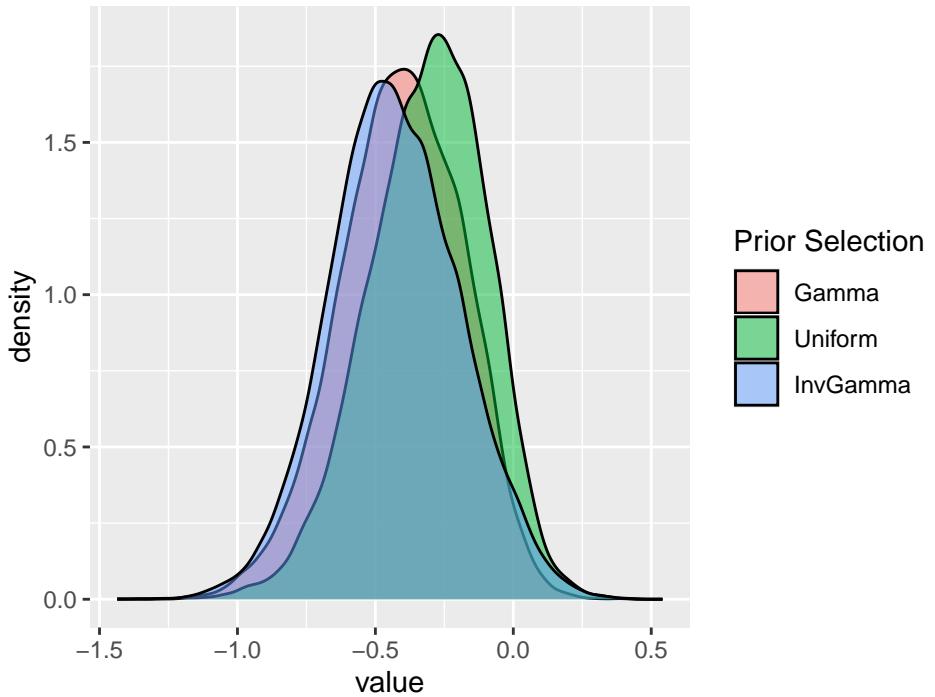
Posterior Density Plot of betaD2[12]



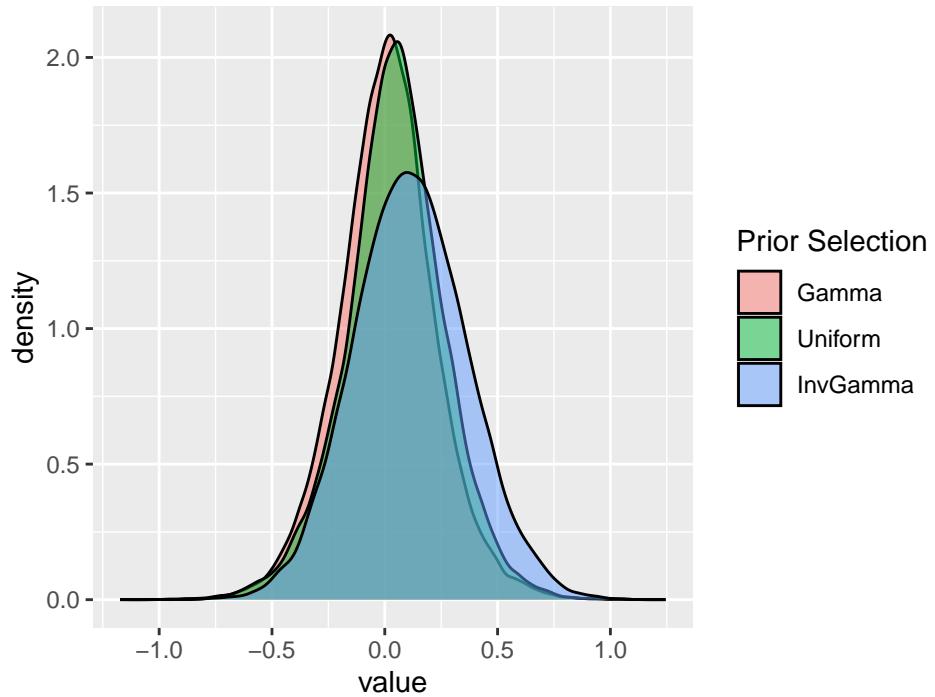
Posterior Density Plot of betaD2[13]



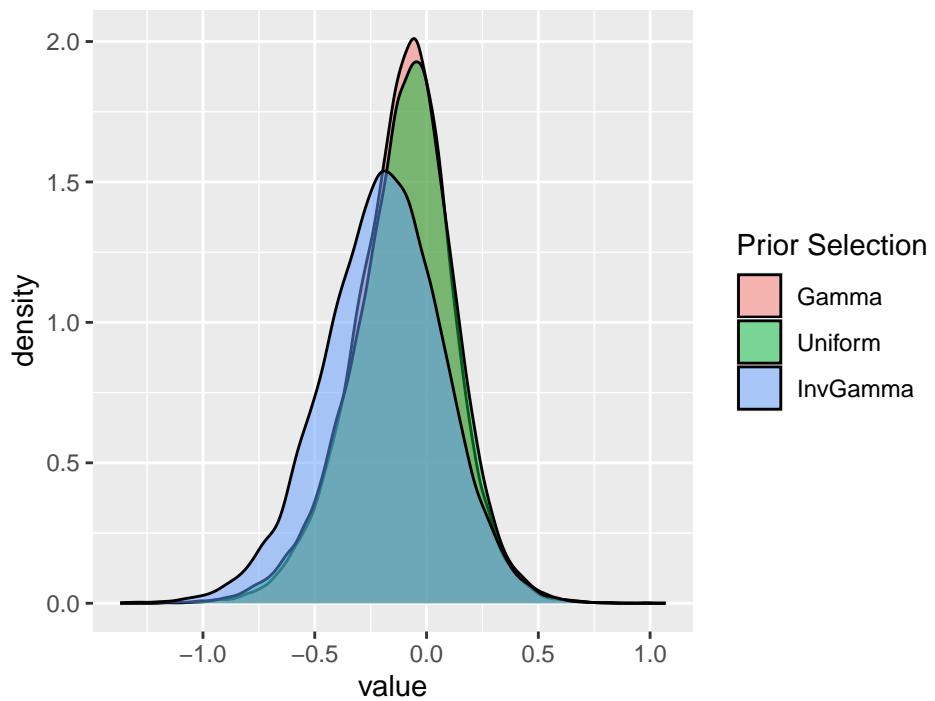
Posterior Density Plot of betaD2[14]



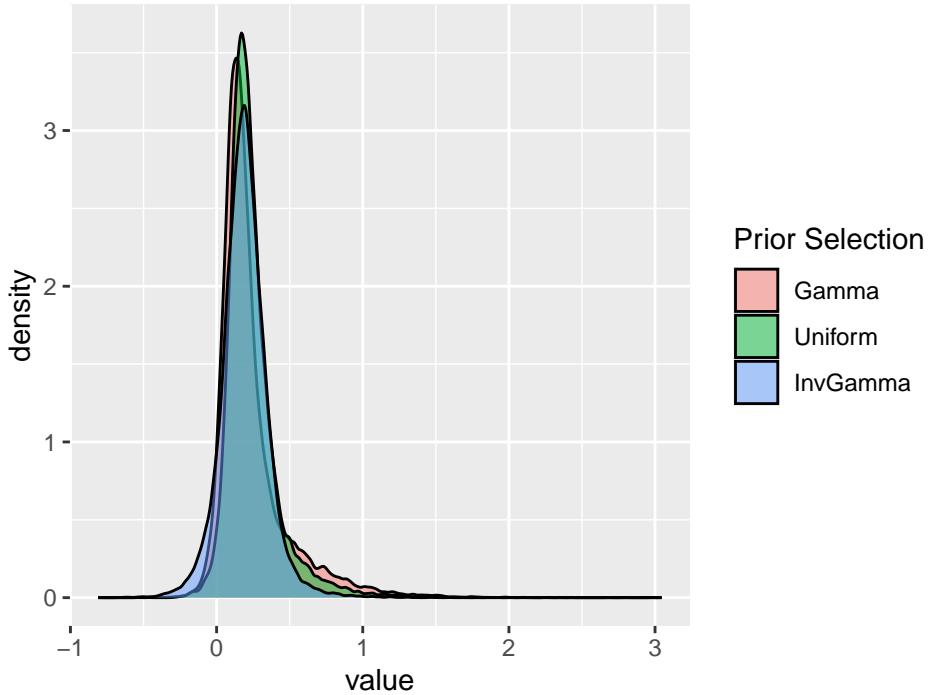
Posterior Density Plot of betaD2[15]



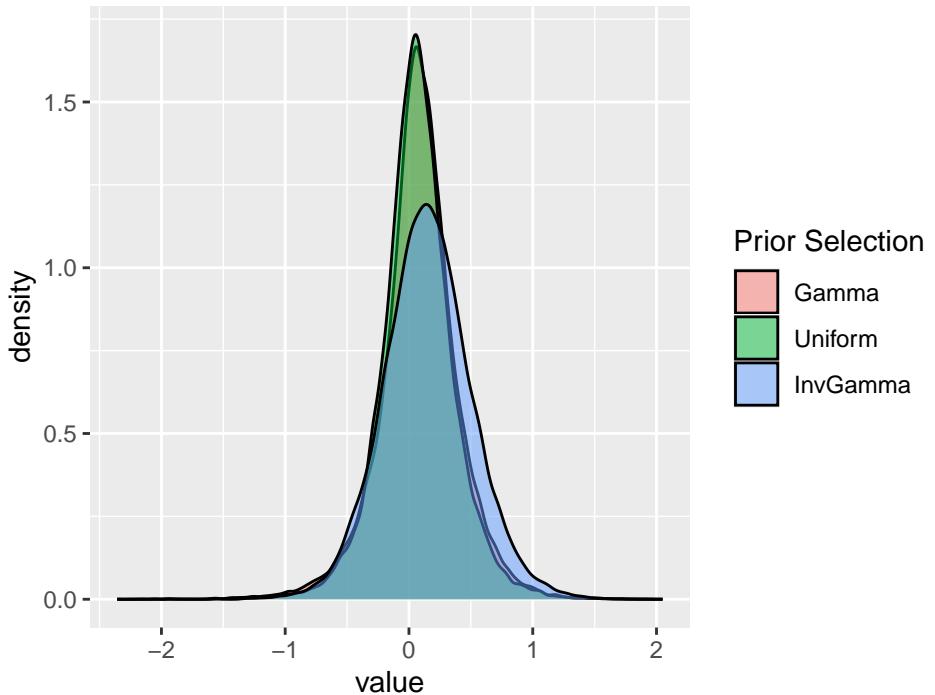
Posterior Density Plot of betaD2[16]



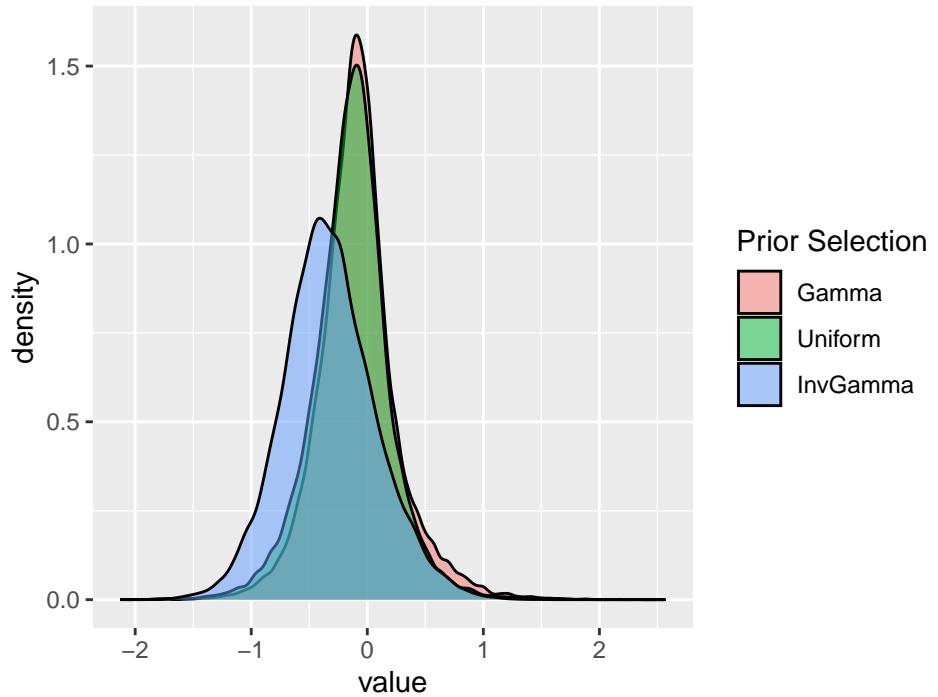
Posterior Density Plot of betaD2[17]



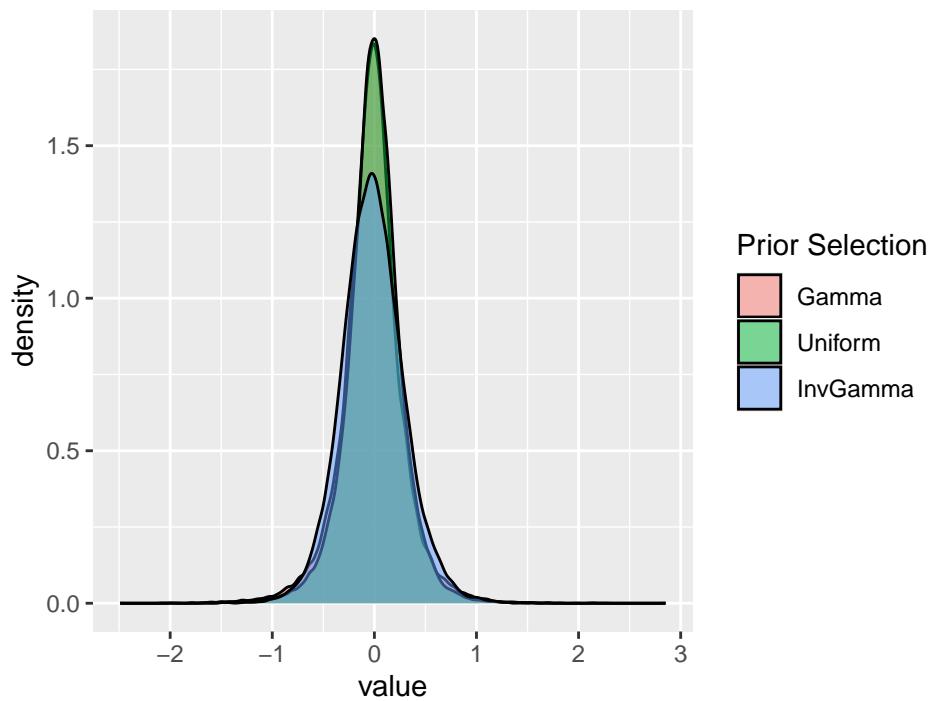
Posterior Density Plot of betaD2[18]



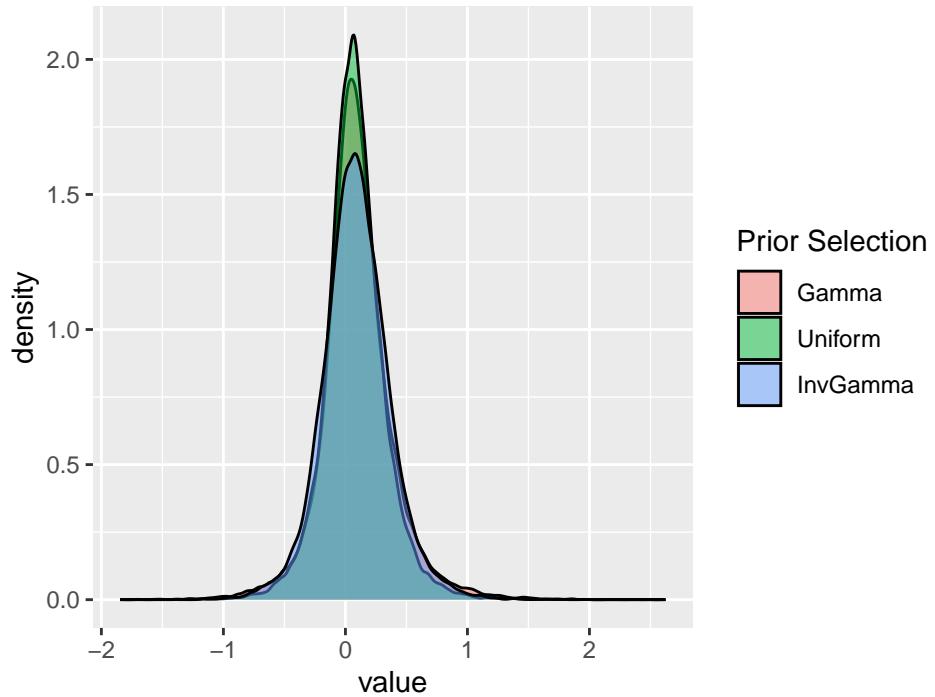
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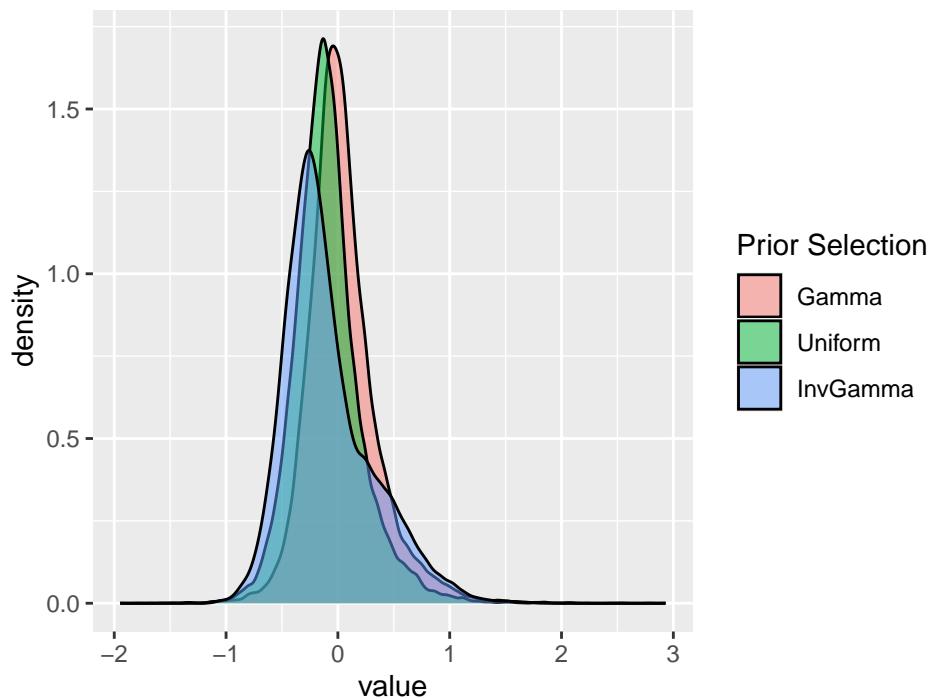
Posterior Density Plot of betaD2[20]



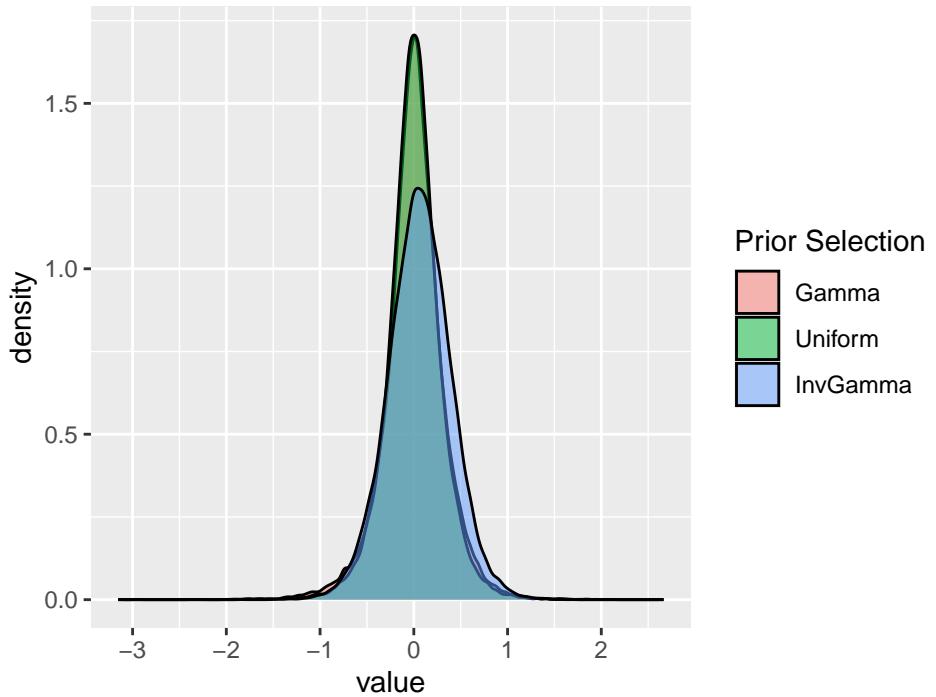
Posterior Density Plot of betaD2[21]



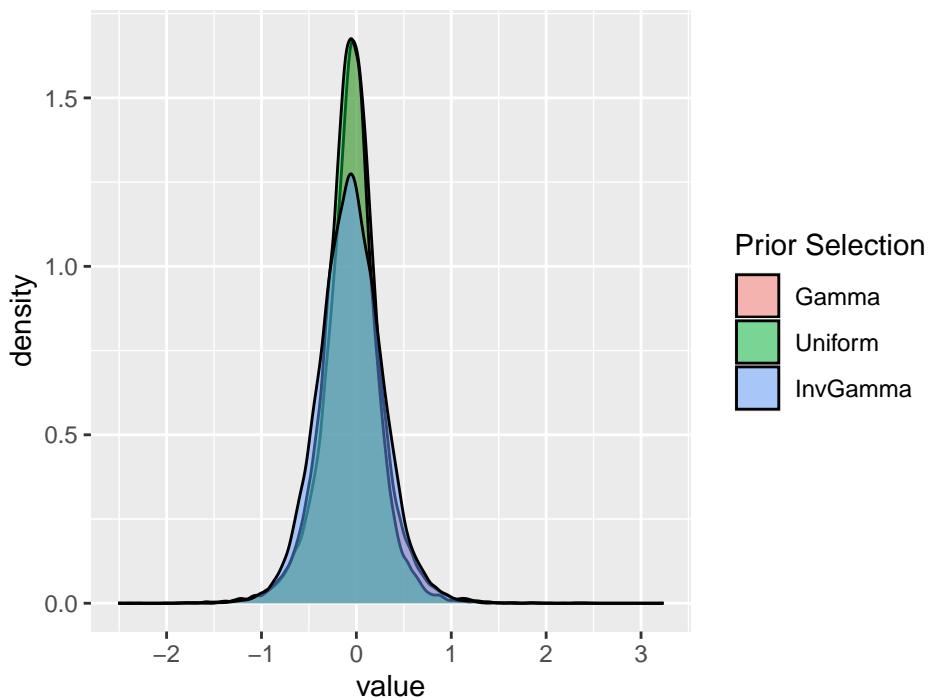
Posterior Density Plot of betaD2[22]



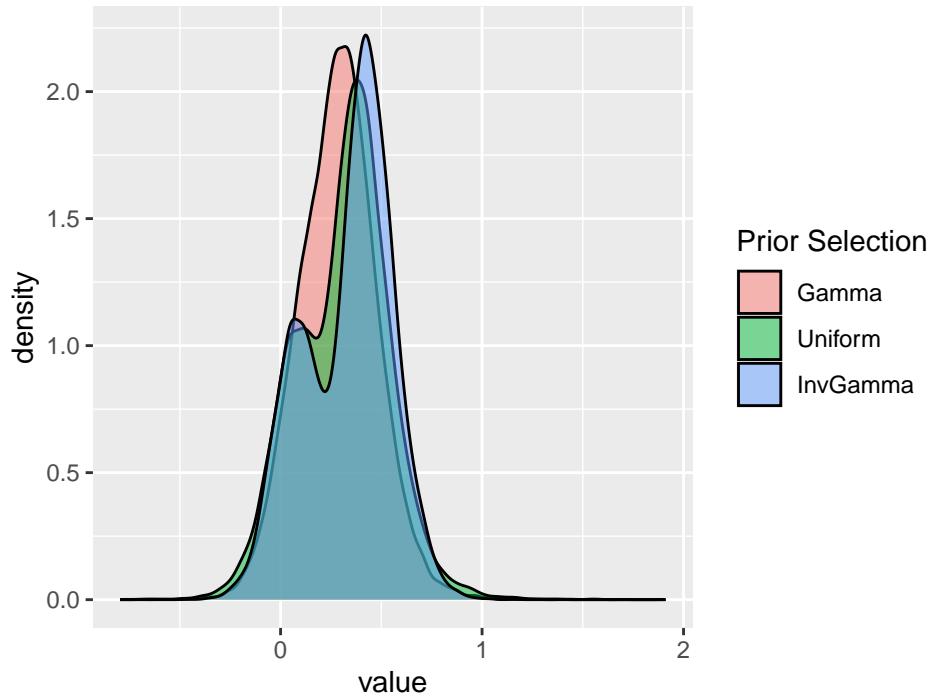
Posterior Density Plot of betaD2[23]



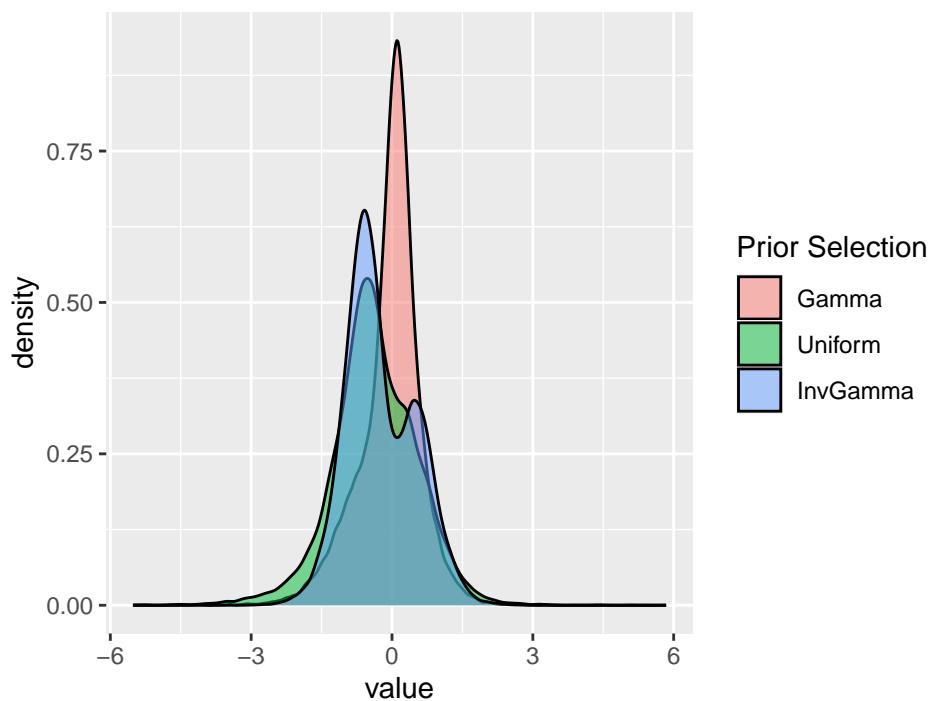
Posterior Density Plot of betaD2[24]



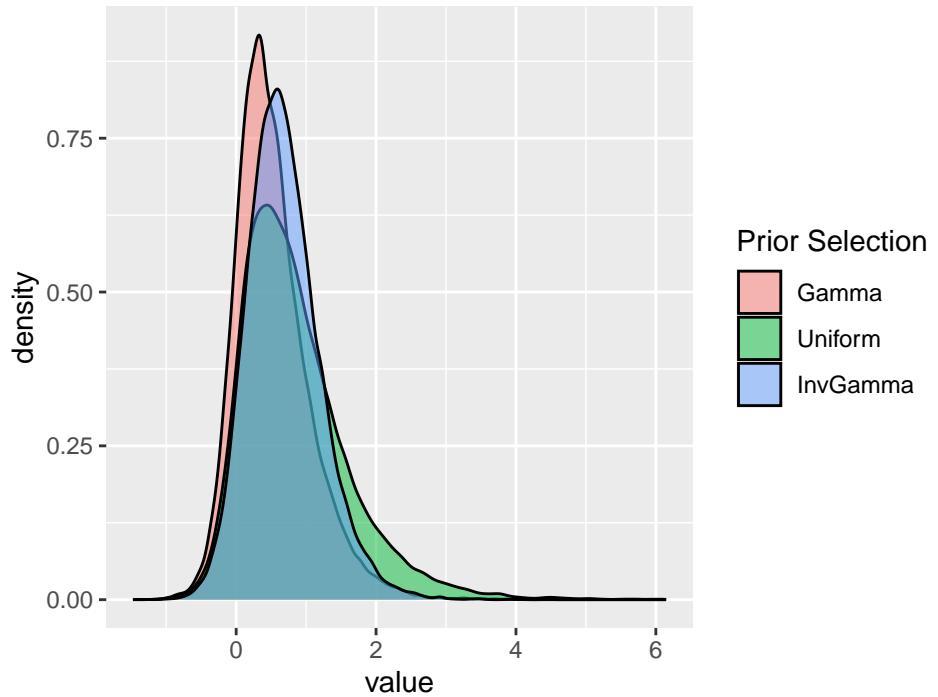
Posterior Density Plot of betaD3[1]



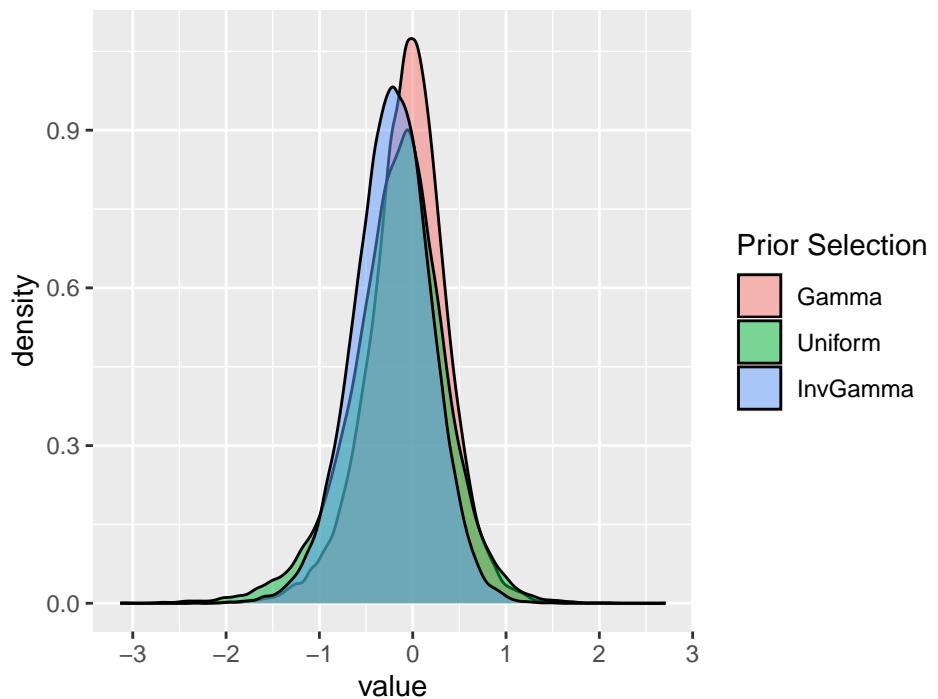
Posterior Density Plot of betaD3[2]



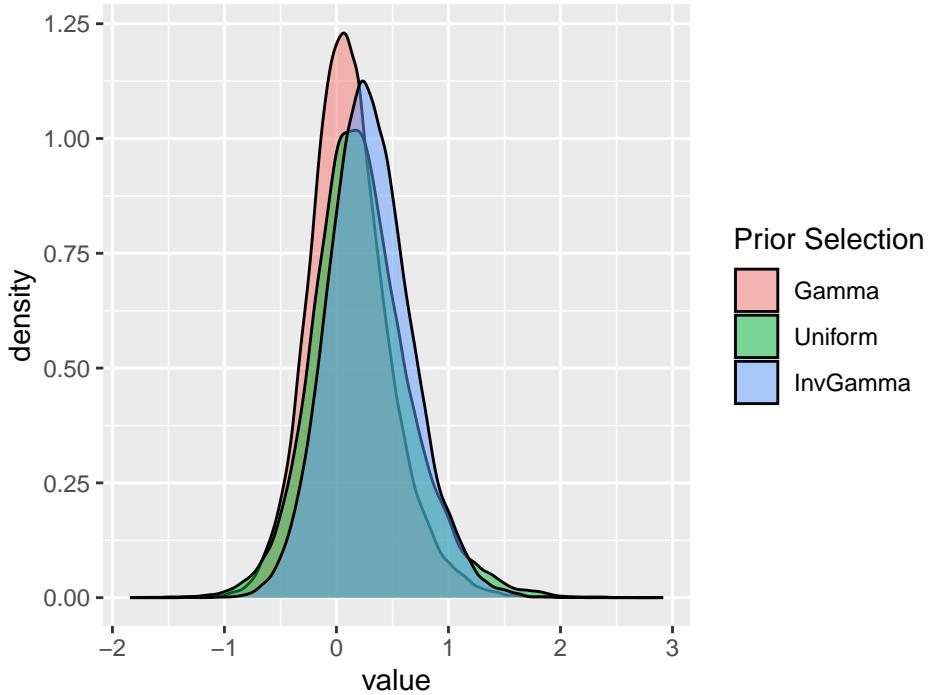
Posterior Density Plot of betaD3[3]



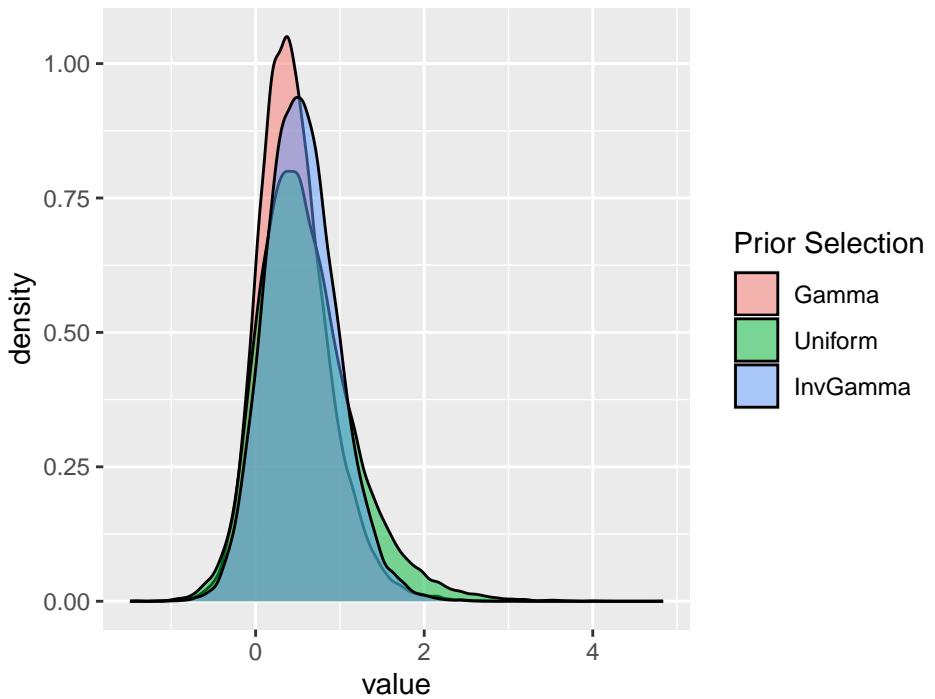
Posterior Density Plot of betaD3[4]



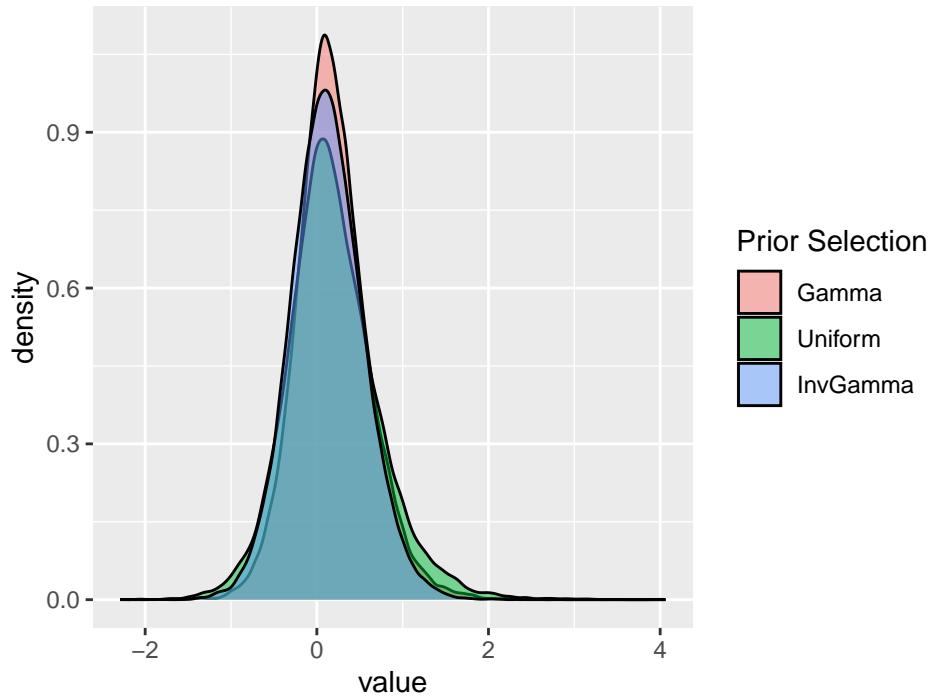
Posterior Density Plot of betaD3[5]



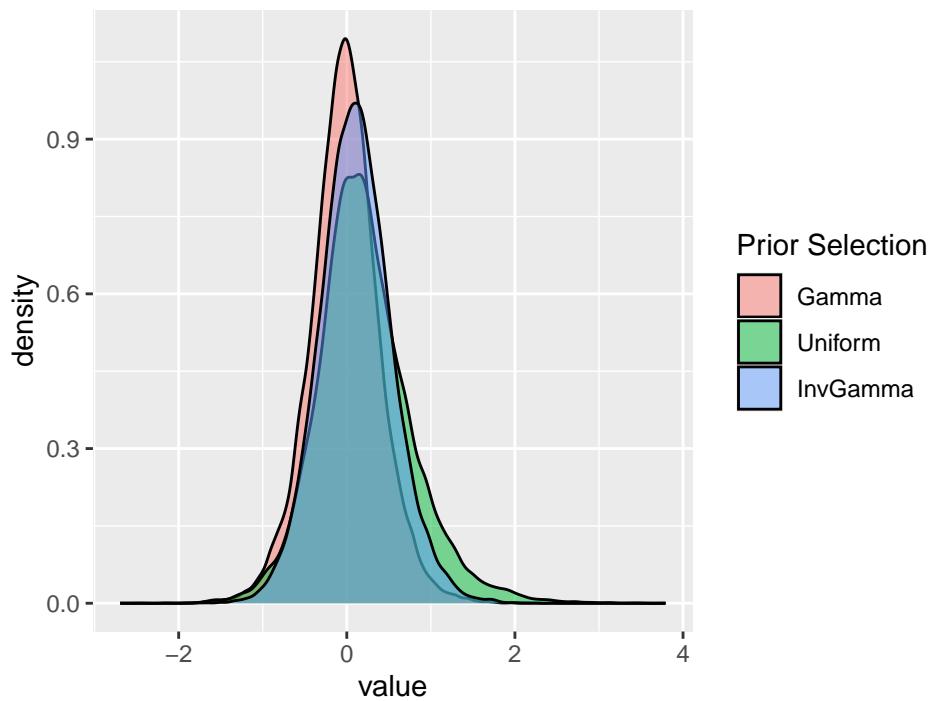
Posterior Density Plot of betaD3[6]



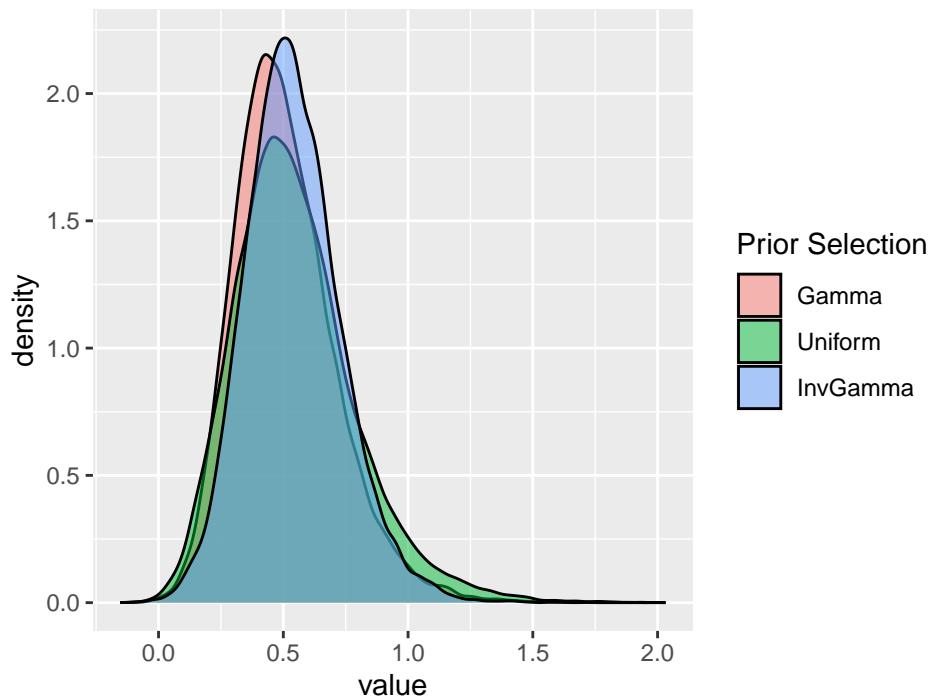
Posterior Density Plot of betaD3[7]



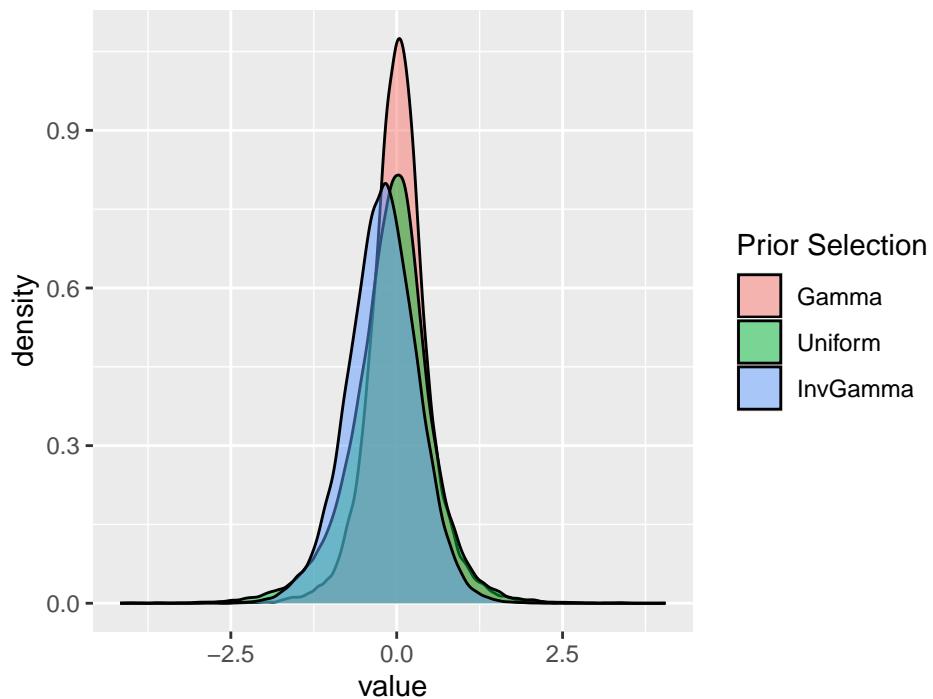
Posterior Density Plot of betaD3[8]



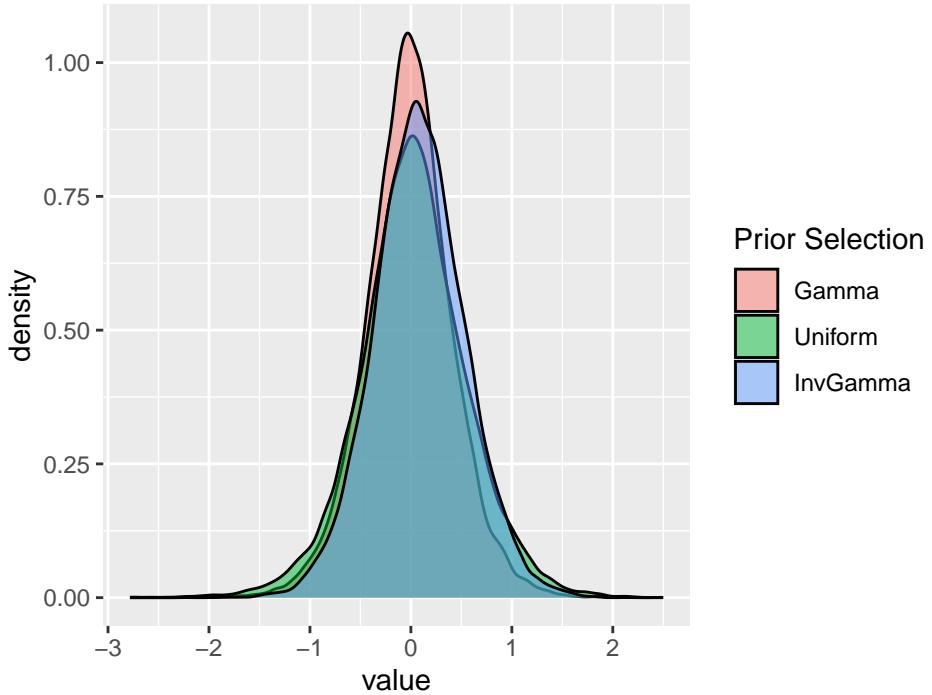
Posterior Density Plot of betaD3[9]



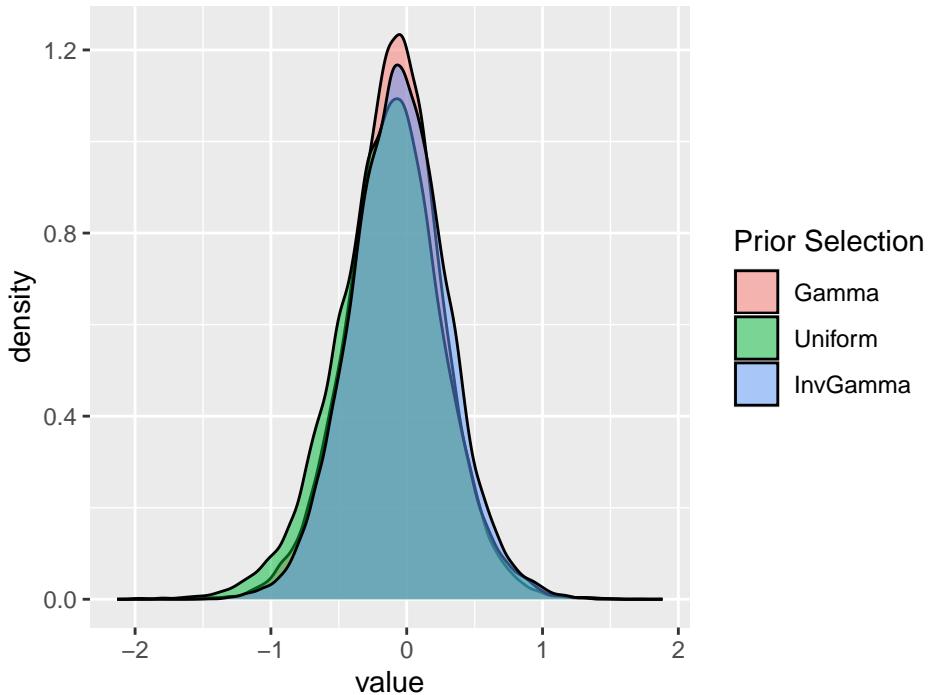
Posterior Density Plot of betaD3[10]



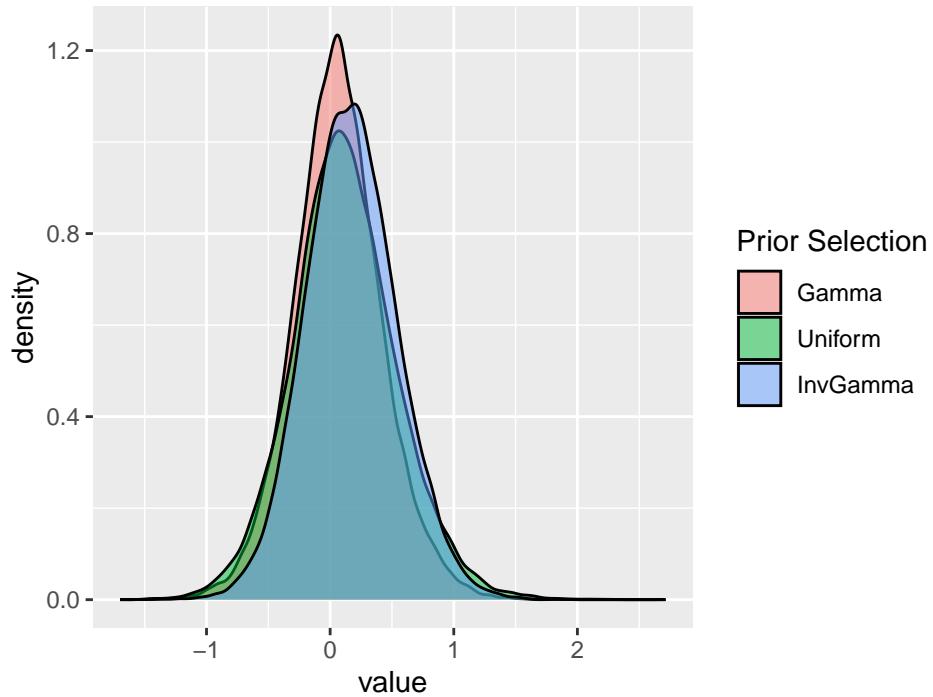
Posterior Density Plot of betaD3[11]



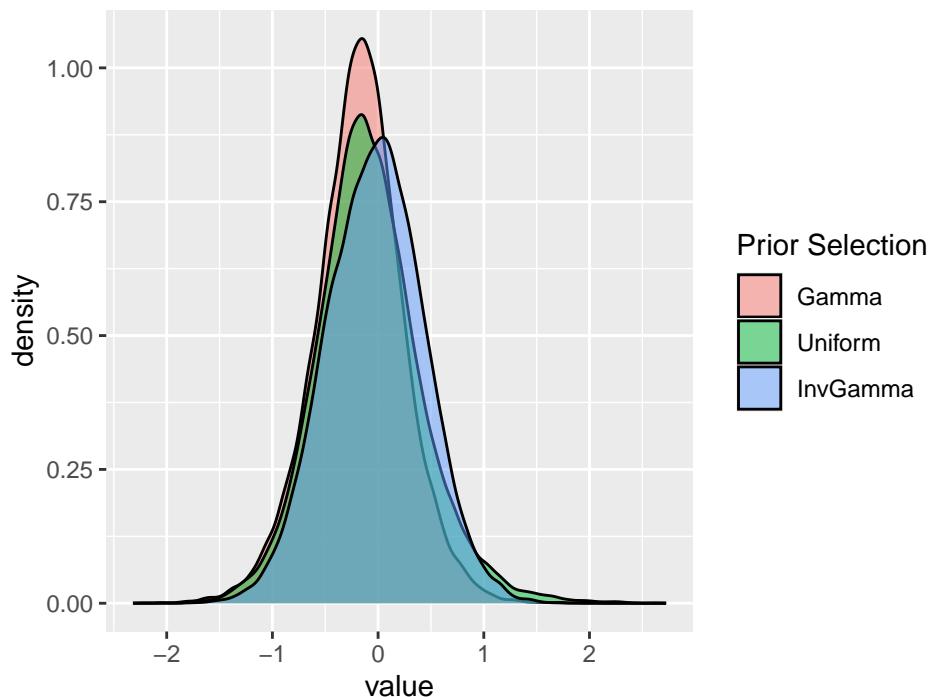
Posterior Density Plot of betaD3[12]



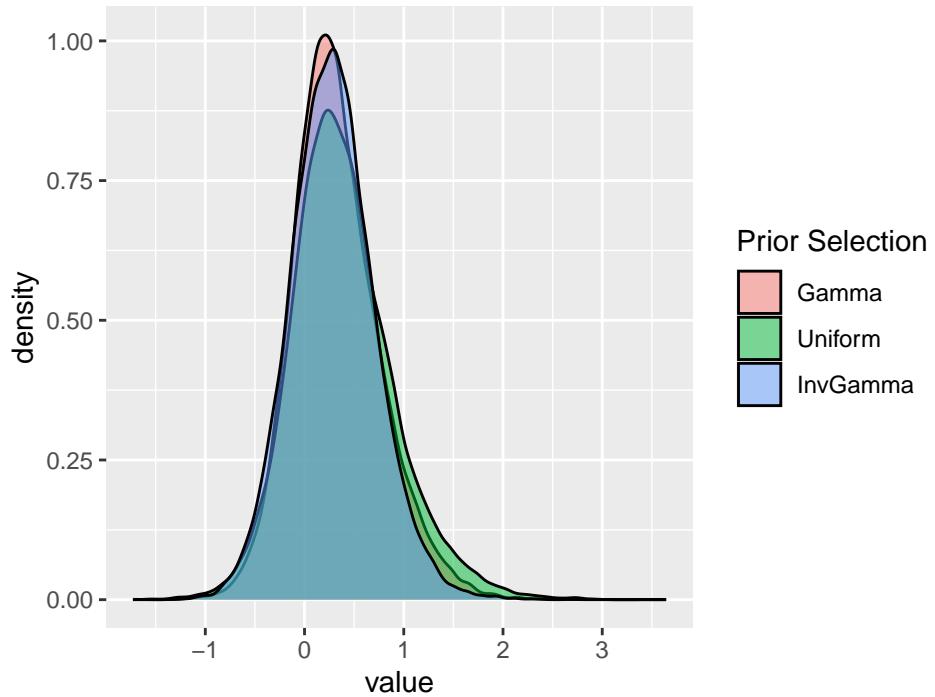
Posterior Density Plot of betaD3[13]



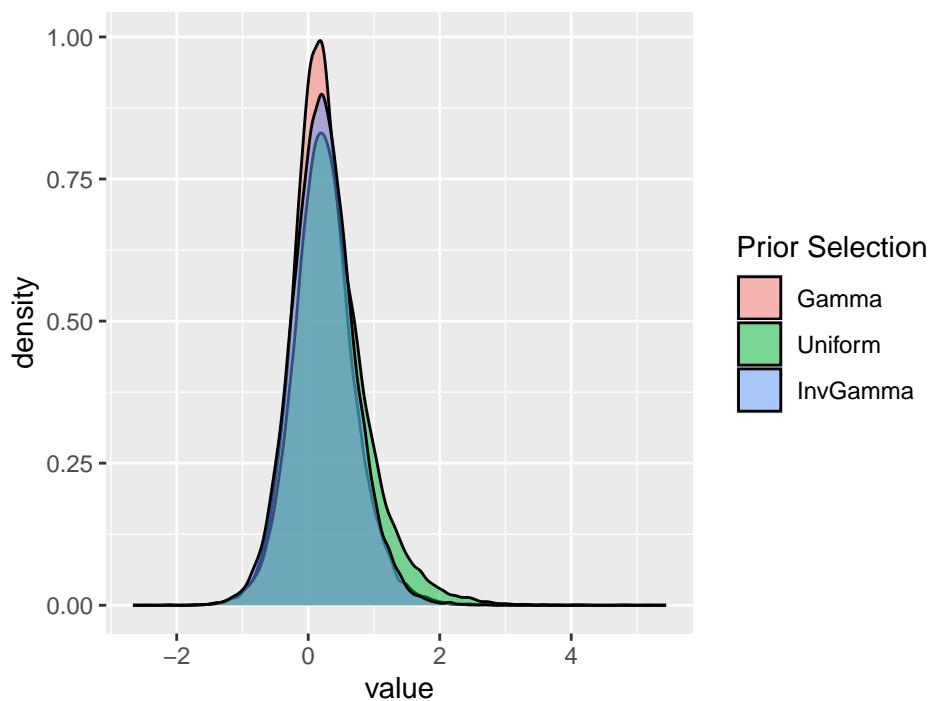
Posterior Density Plot of betaD3[14]



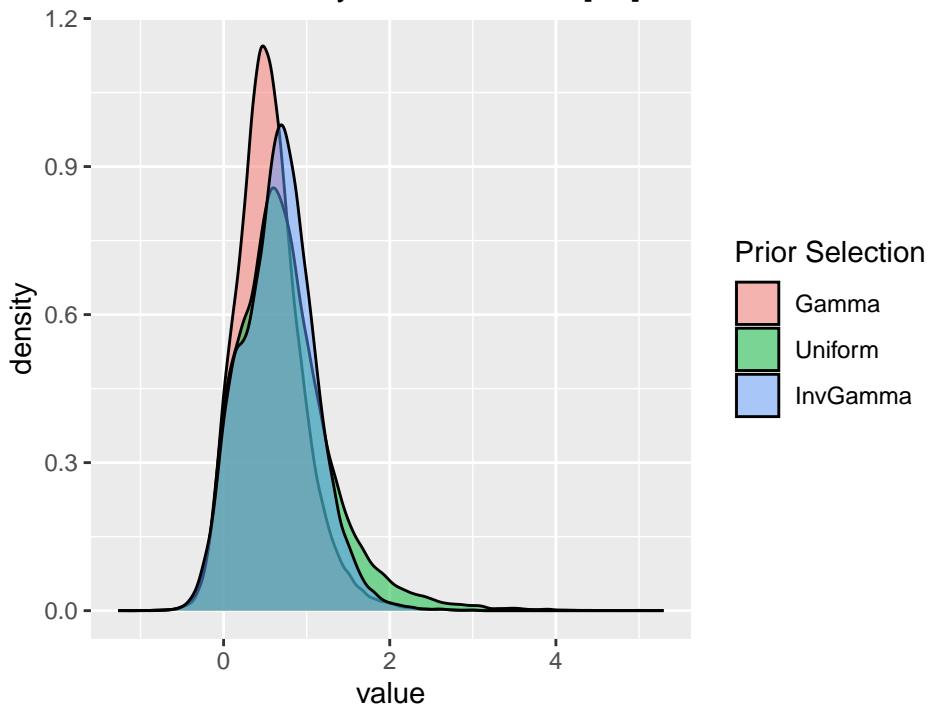
Posterior Density Plot of betaD3[15]



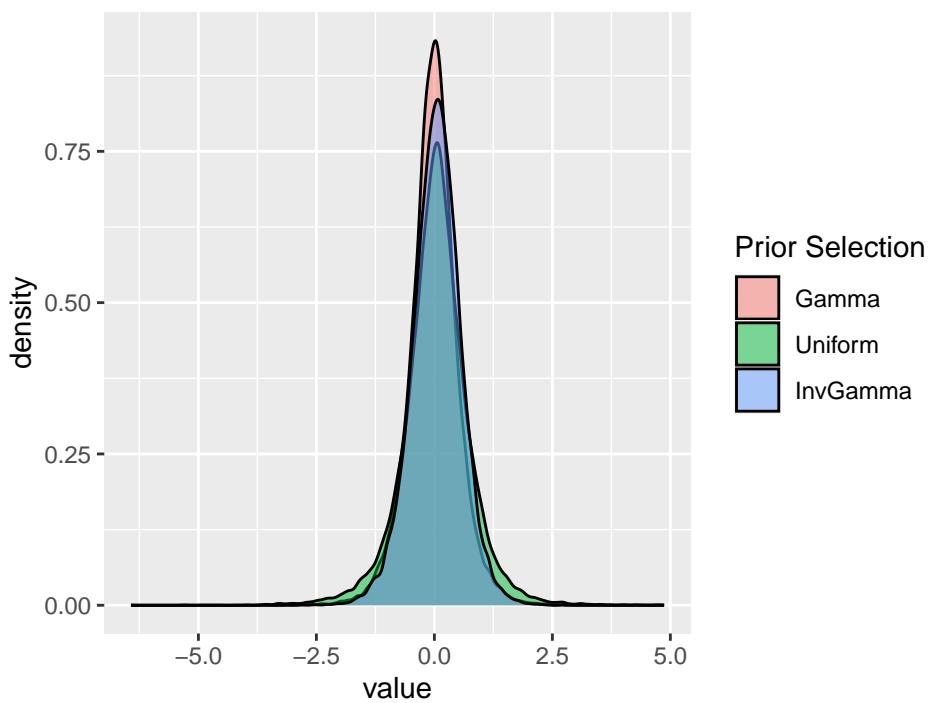
Posterior Density Plot of betaD3[16]



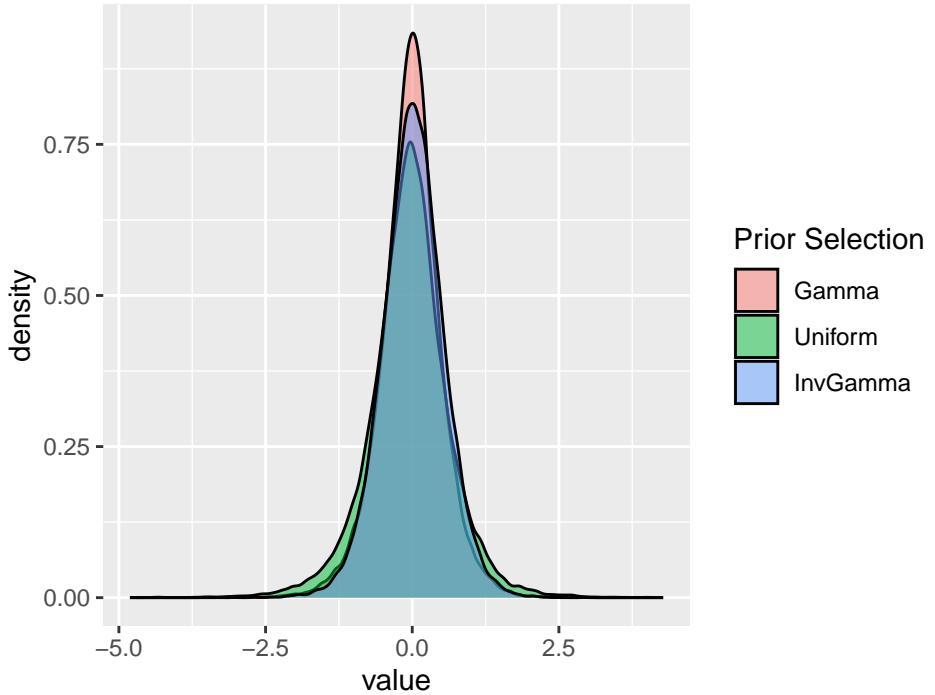
Posterior Density Plot of betaD3[17]



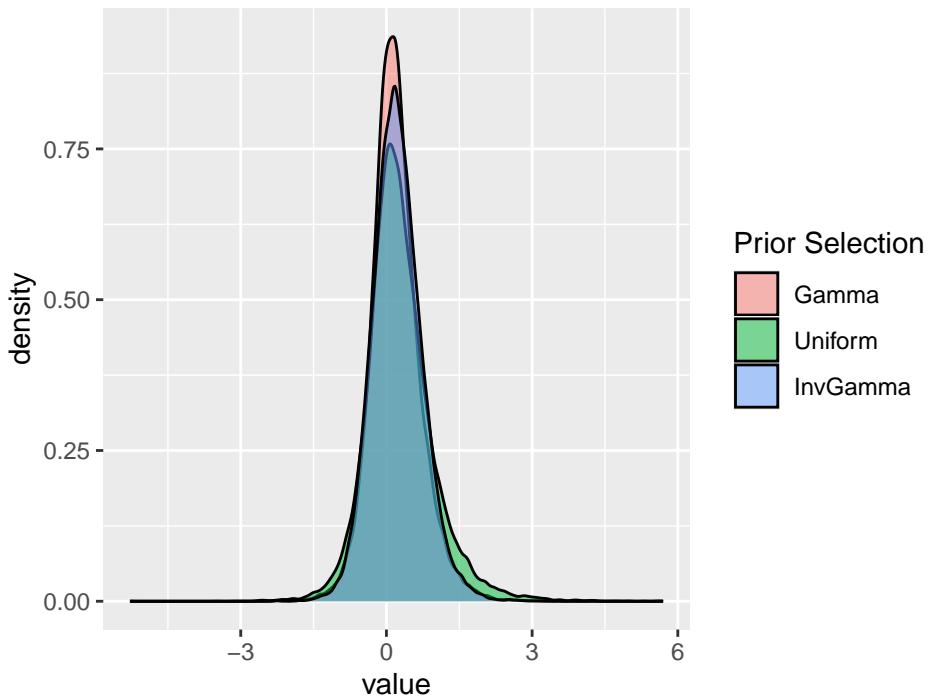
Posterior Density Plot of betaD3[18]



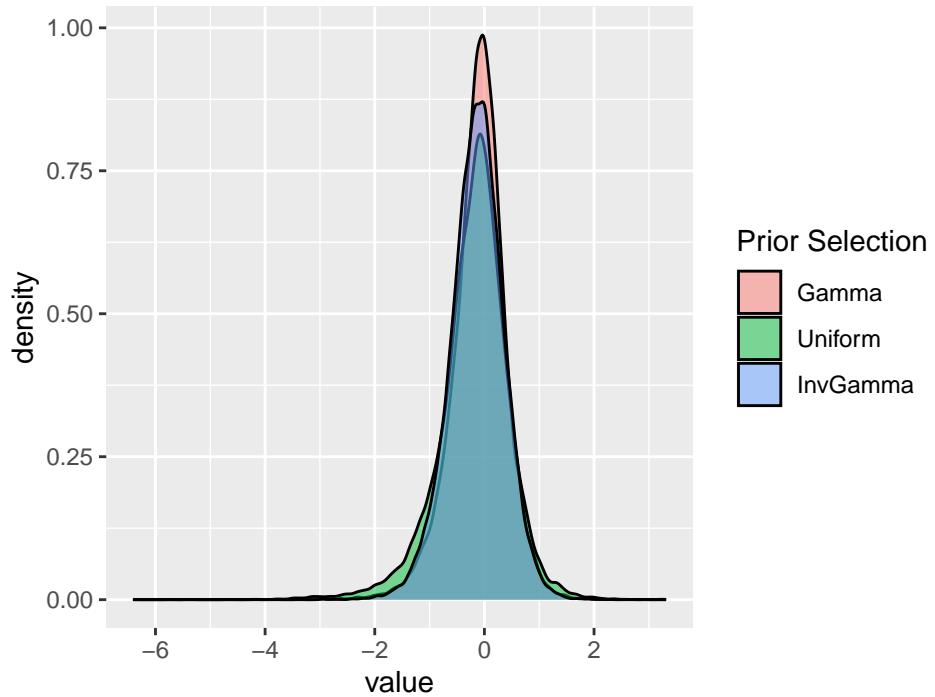
Posterior Density Plot of betaD3[19]



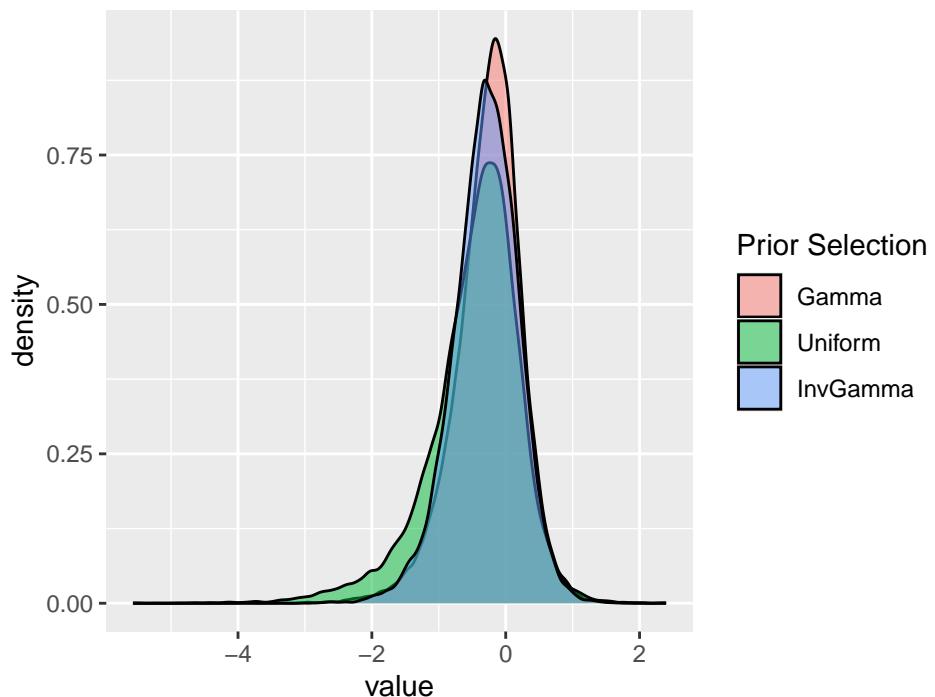
Posterior Density Plot of betaD3[20]



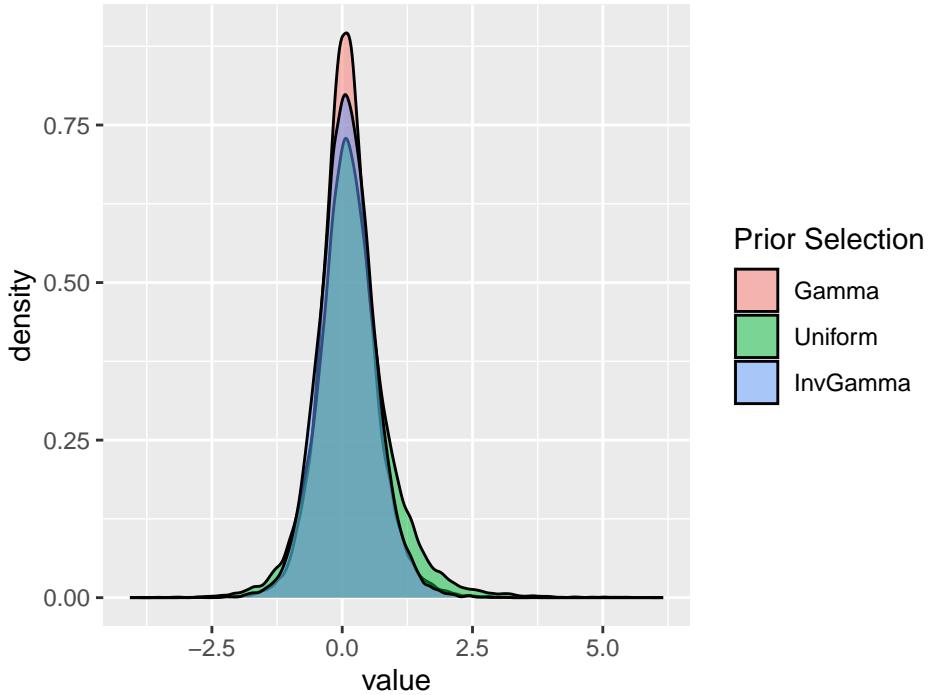
Posterior Density Plot of betaD3[21]



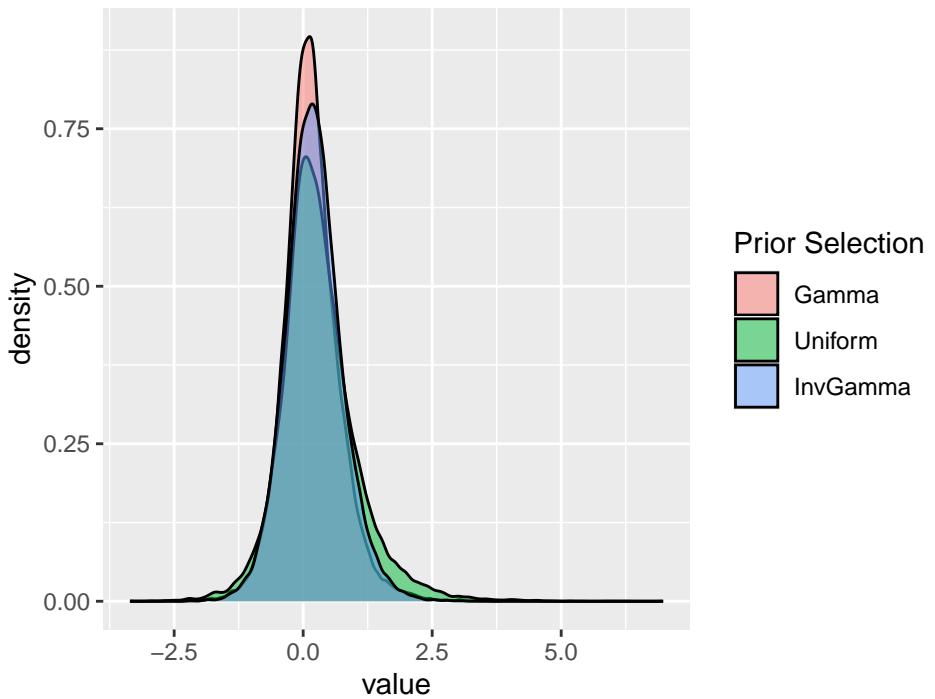
Posterior Density Plot of betaD3[22]



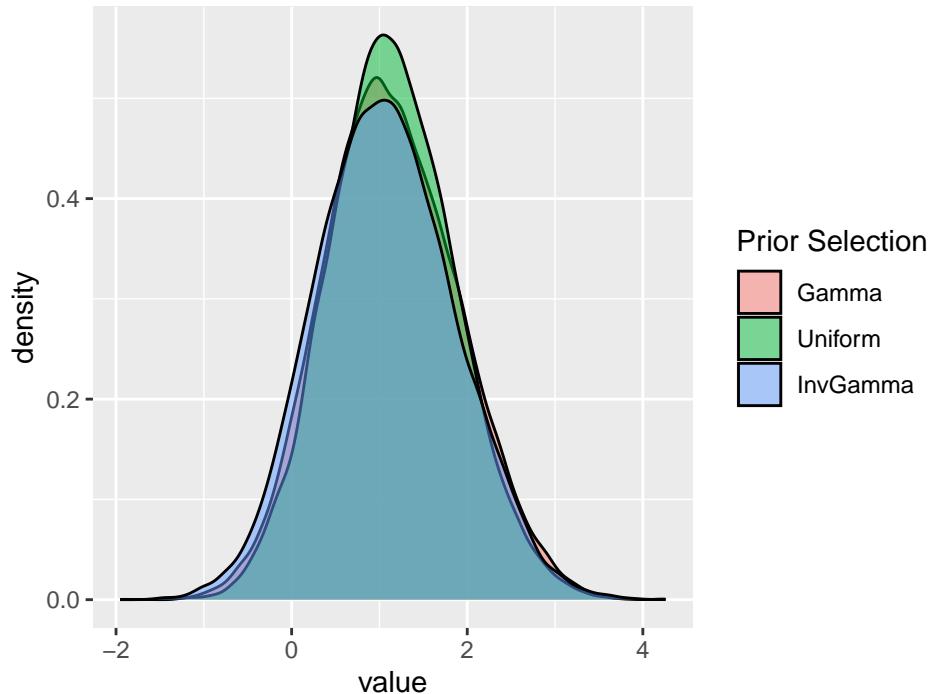
Posterior Density Plot of betaD3[23]



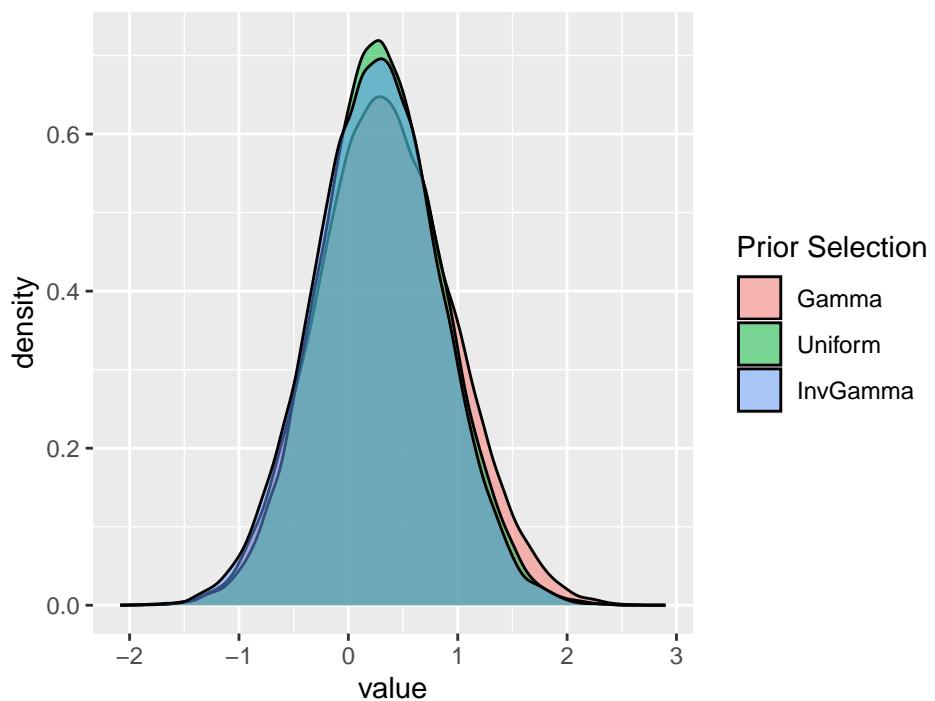
Posterior Density Plot of betaD3[24]



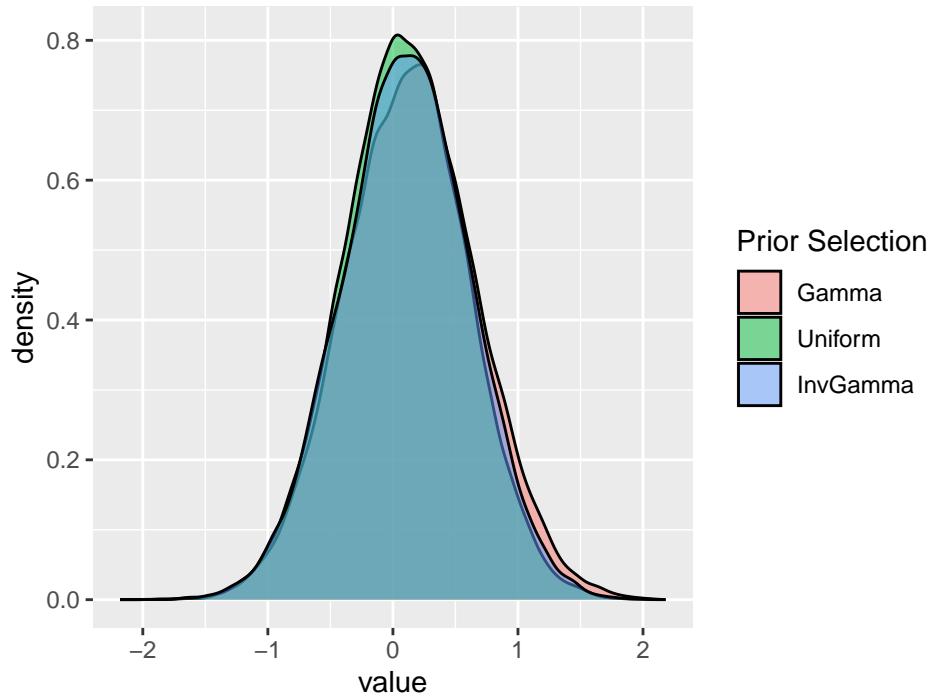
Posterior Density Plot of alphaD2[1]



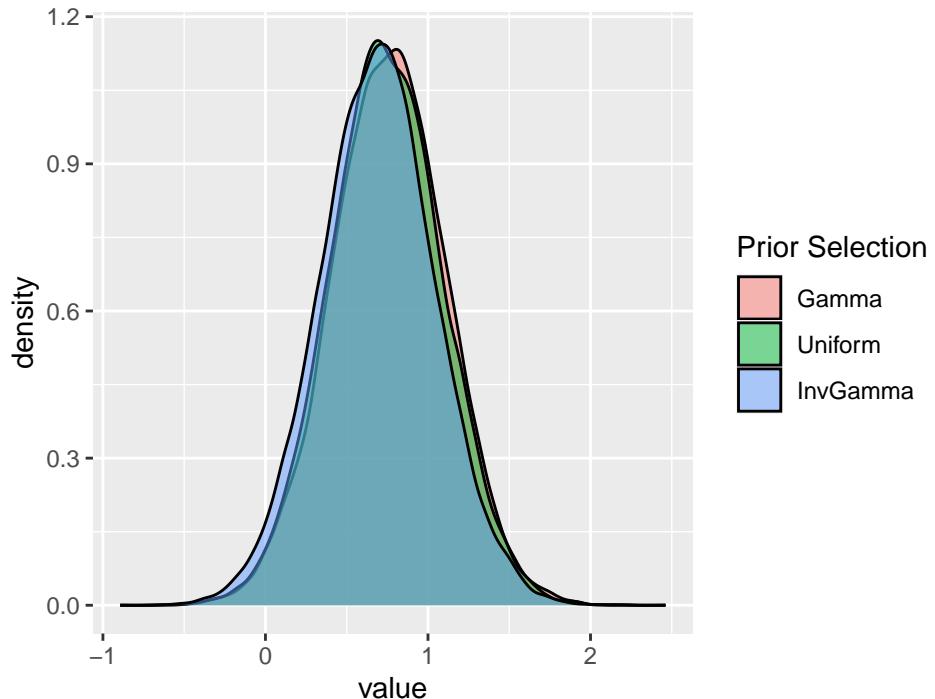
Posterior Density Plot of alphaD2[2]



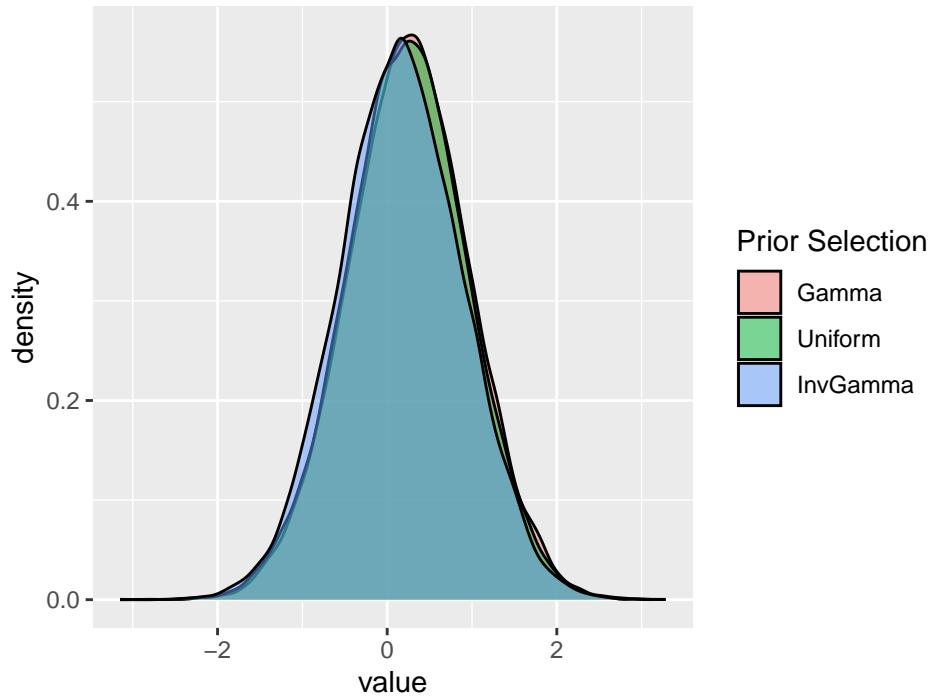
Posterior Density Plot of alphaD2[3]



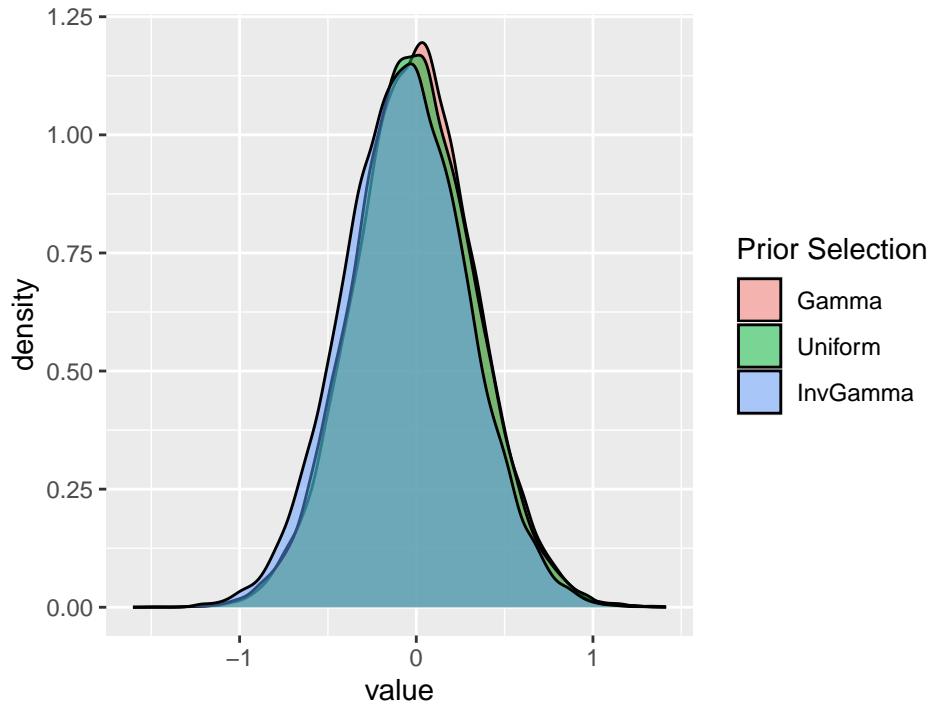
Posterior Density Plot of alphaD2[4]



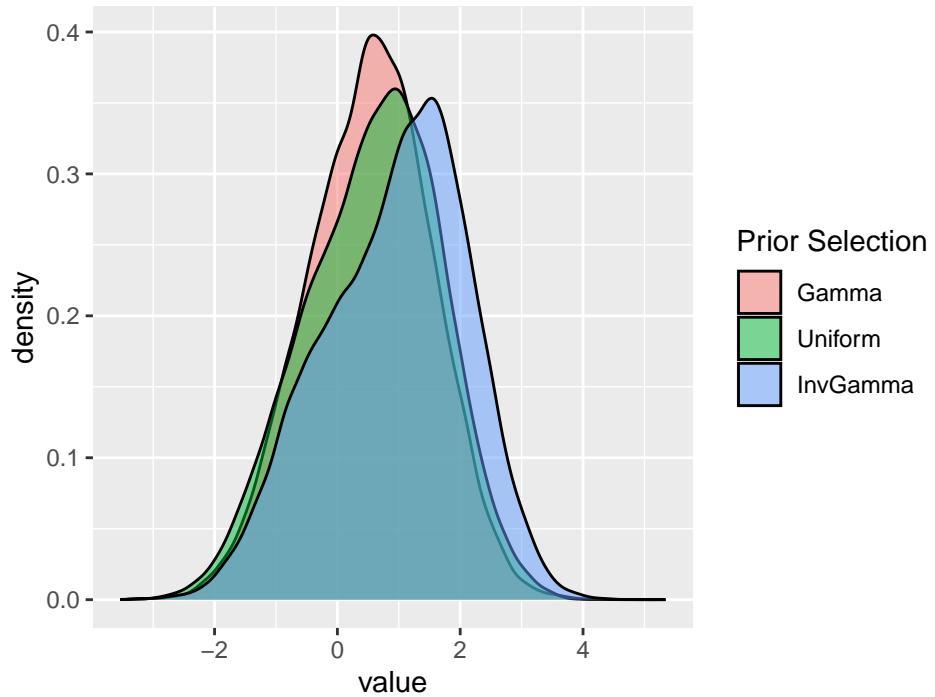
Posterior Density Plot of alphaD2[5]



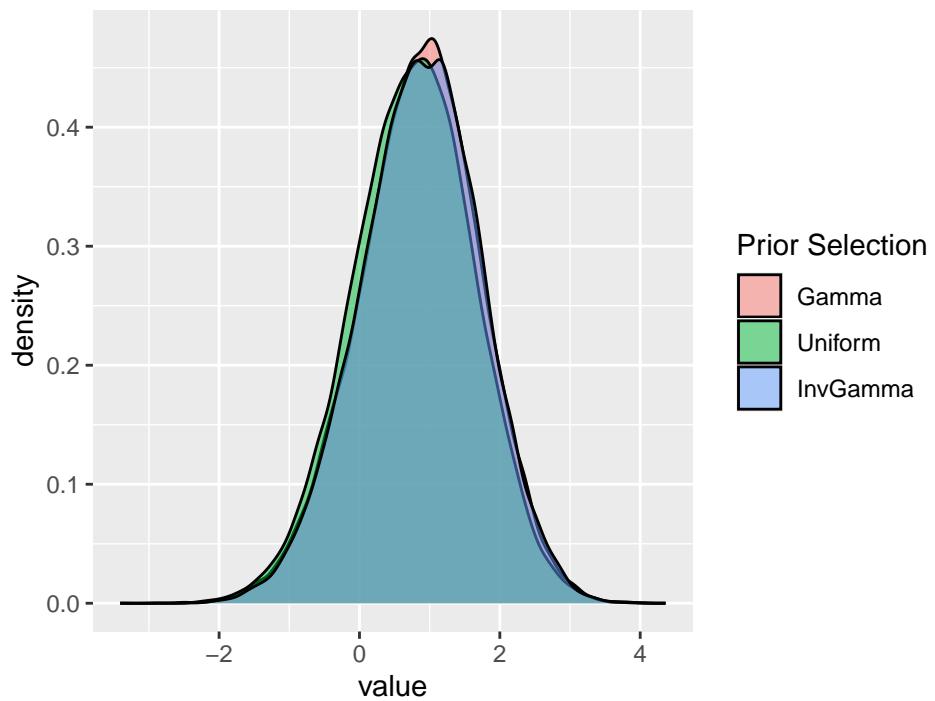
Posterior Density Plot of alphaD2[6]



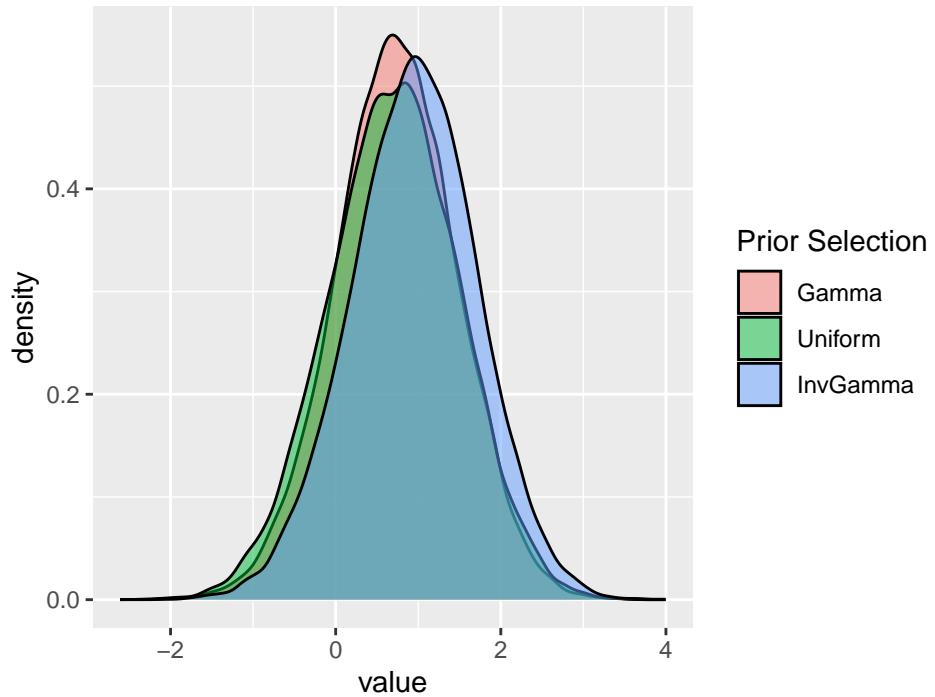
Posterior Density Plot of alphaD3[1]



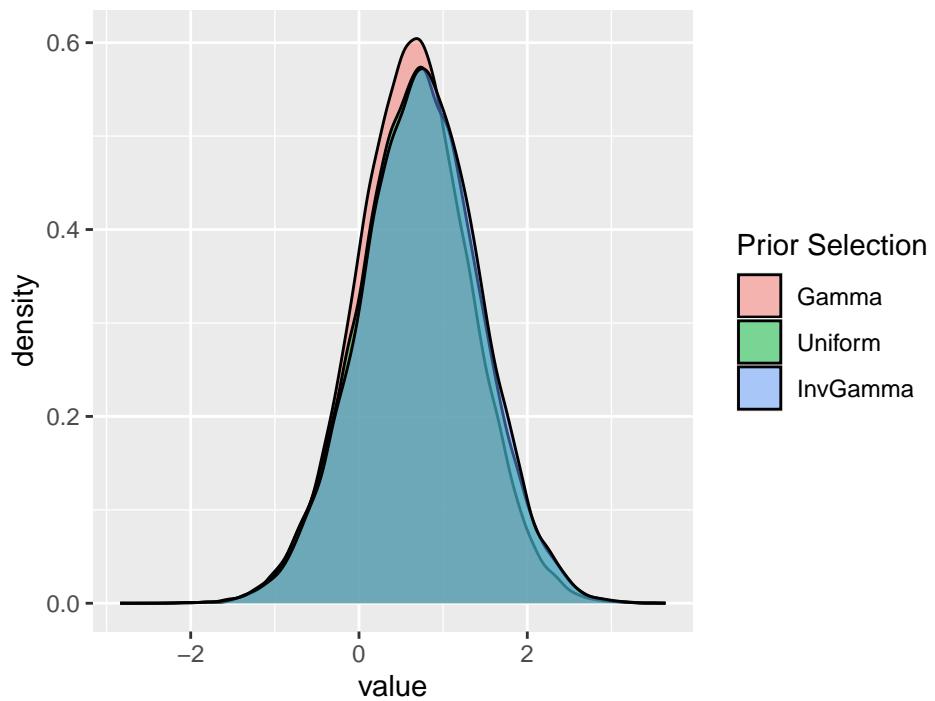
Posterior Density Plot of alphaD3[2]



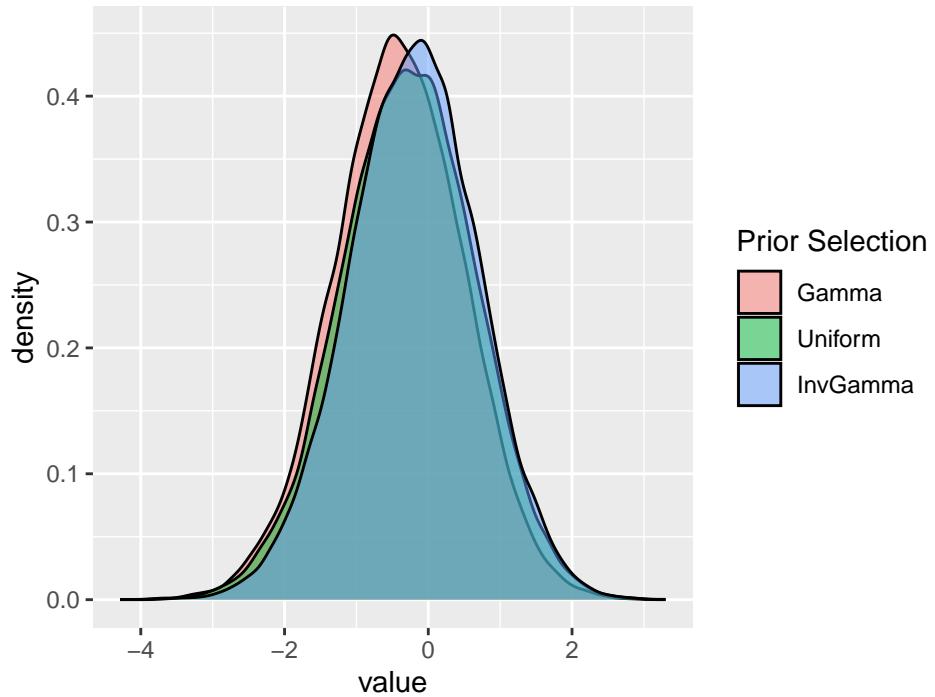
Posterior Density Plot of alphaD3[3]



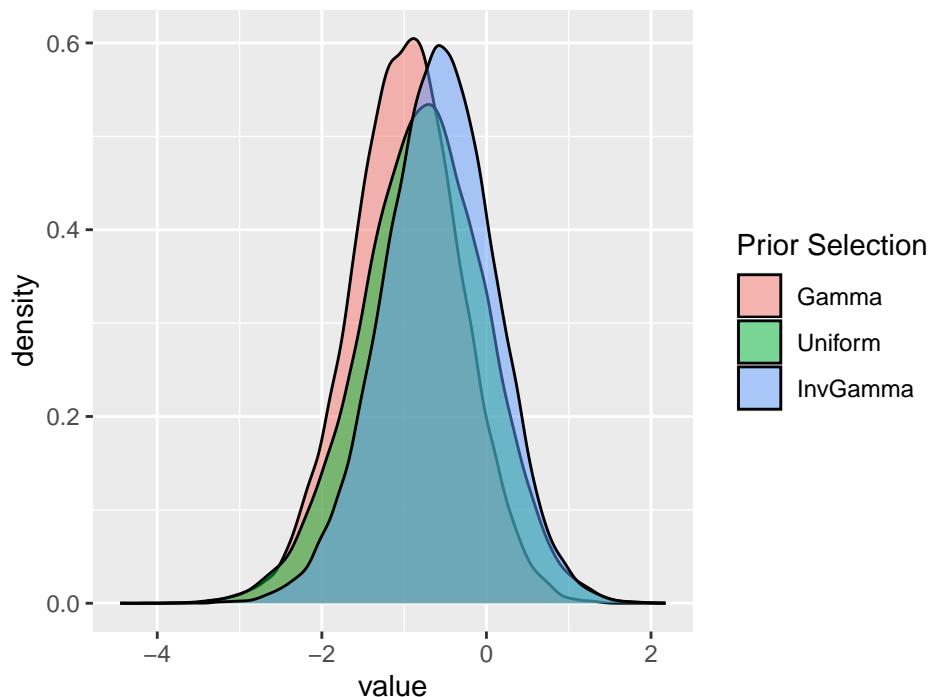
Posterior Density Plot of alphaD3[4]



Posterior Density Plot of alphaD3[5]

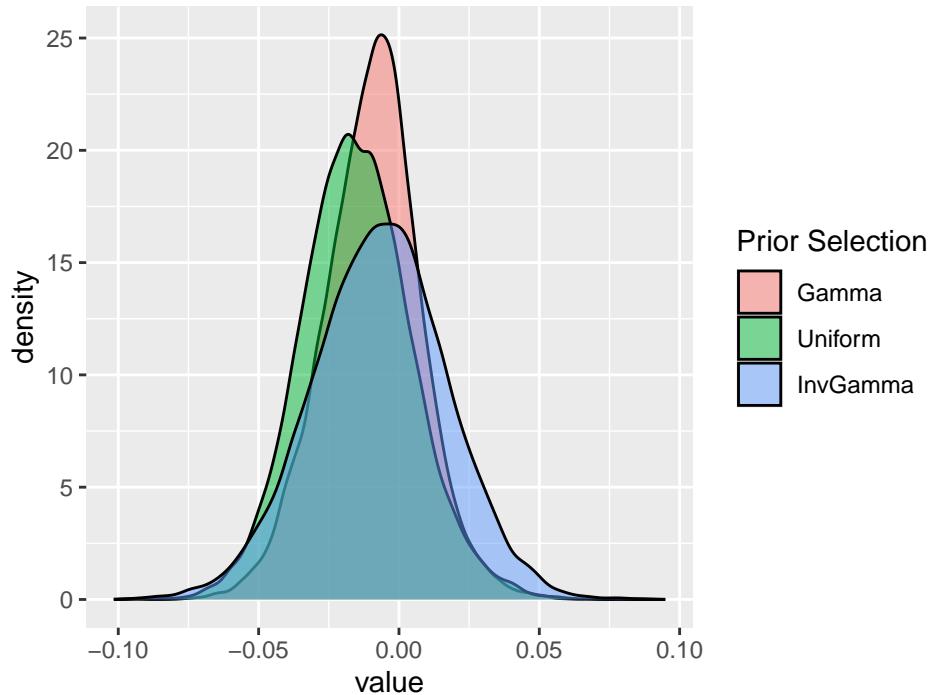


Posterior Density Plot of alphaD3[6]

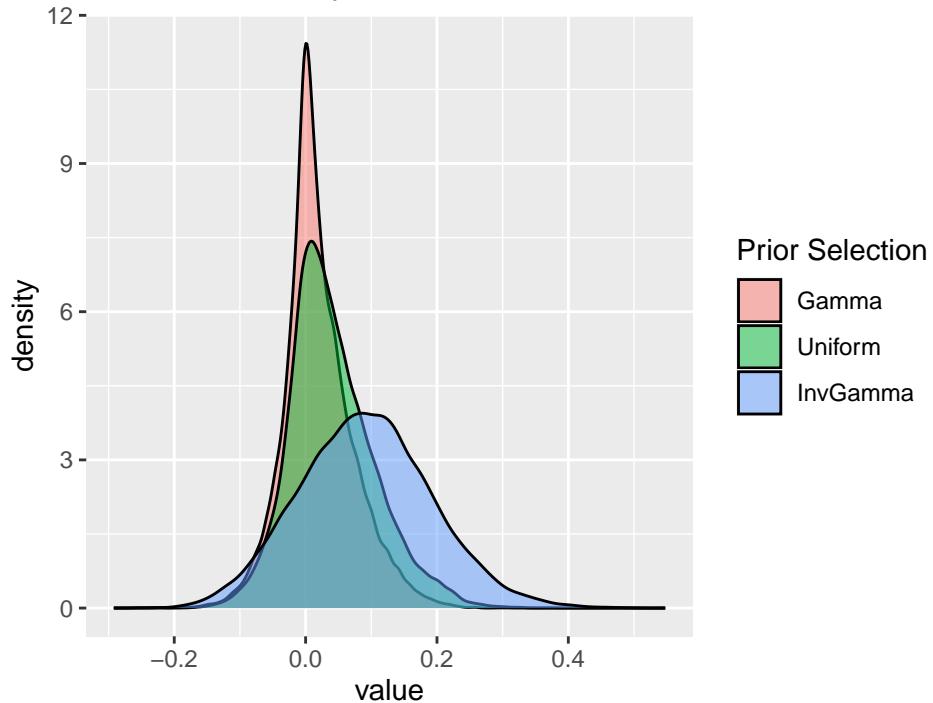


## Inflammatory Responses (I1, I2, I3)

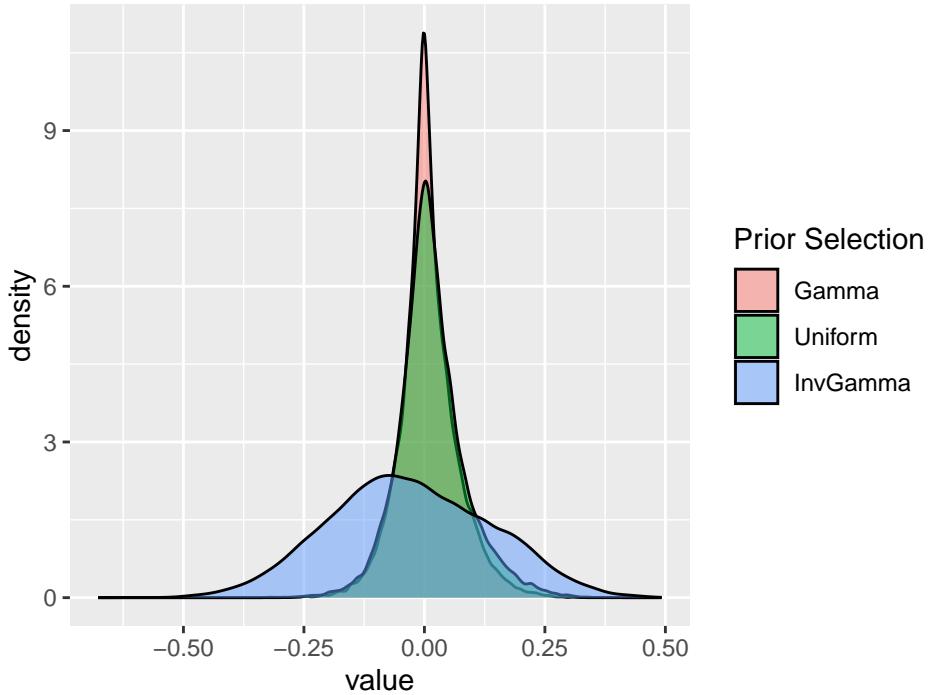
Posterior Density Plot of beta1[1]



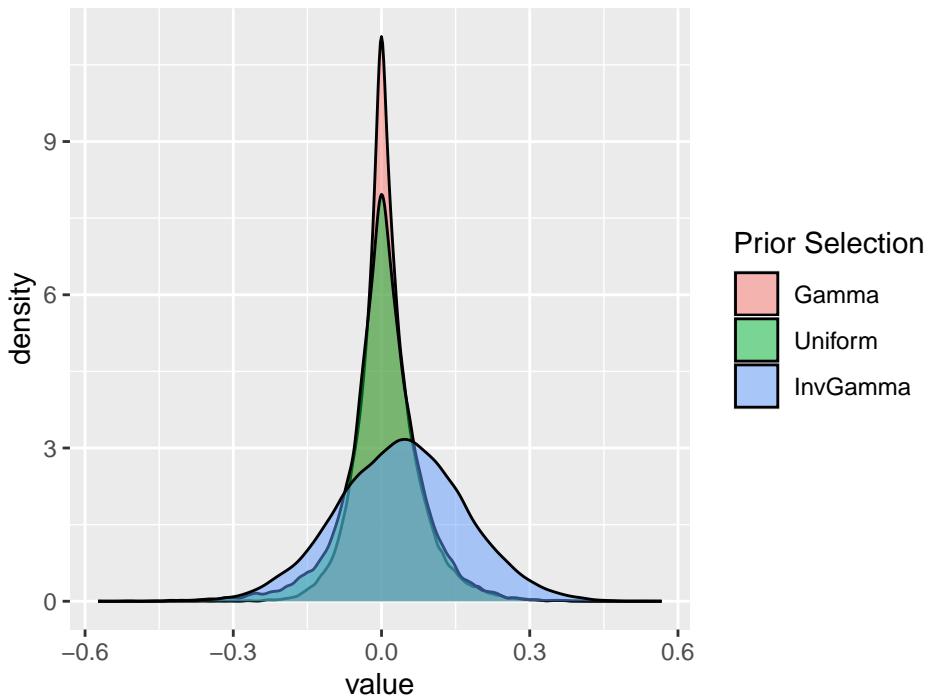
Posterior Density Plot of beta1[2]



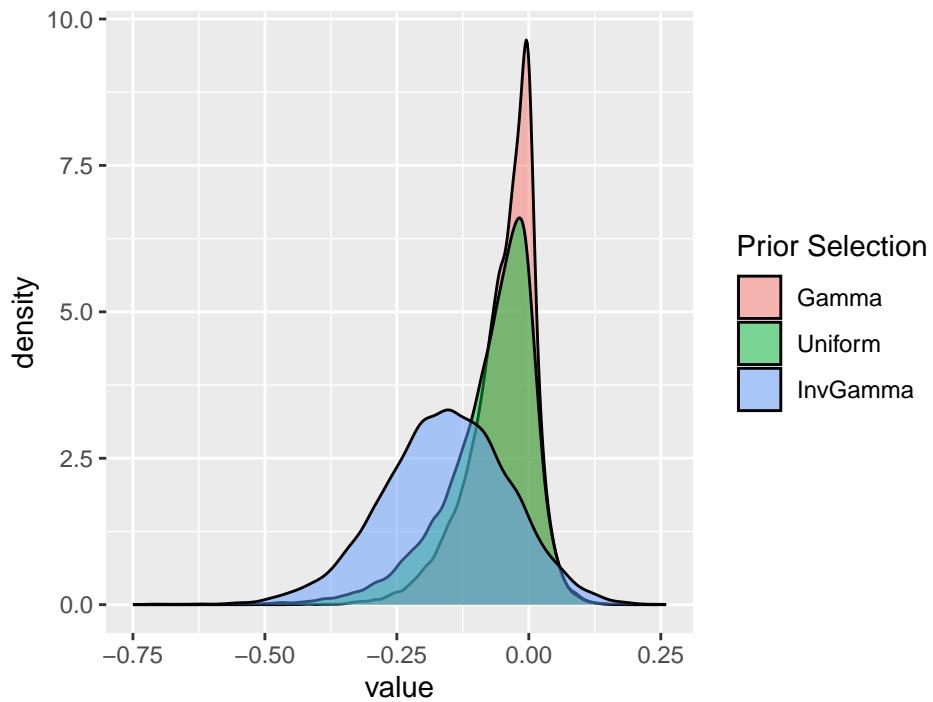
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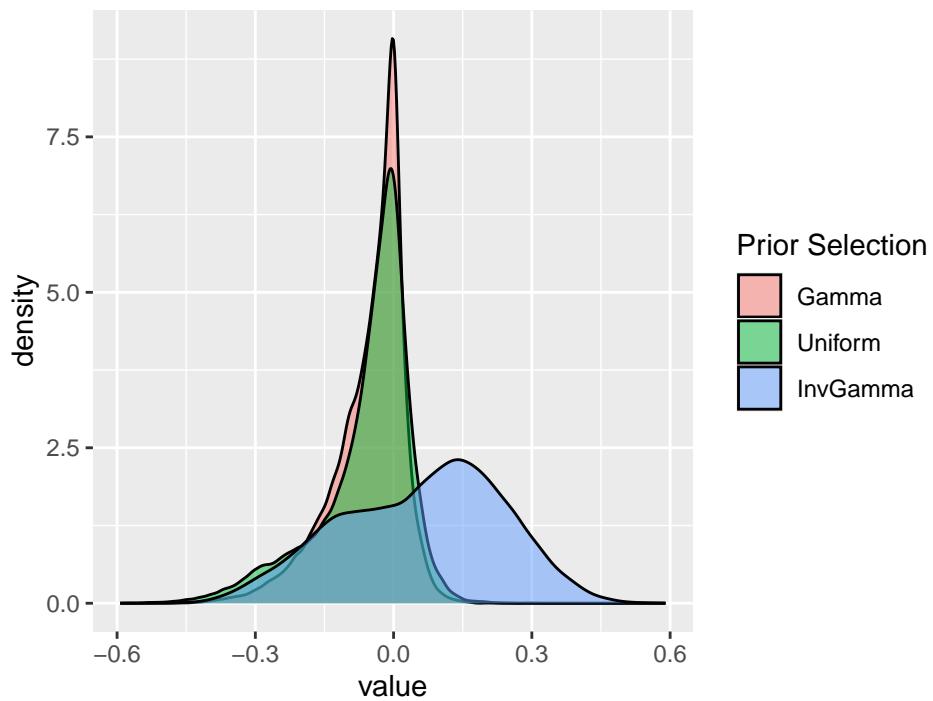
Posterior Density Plot of beta1[4]



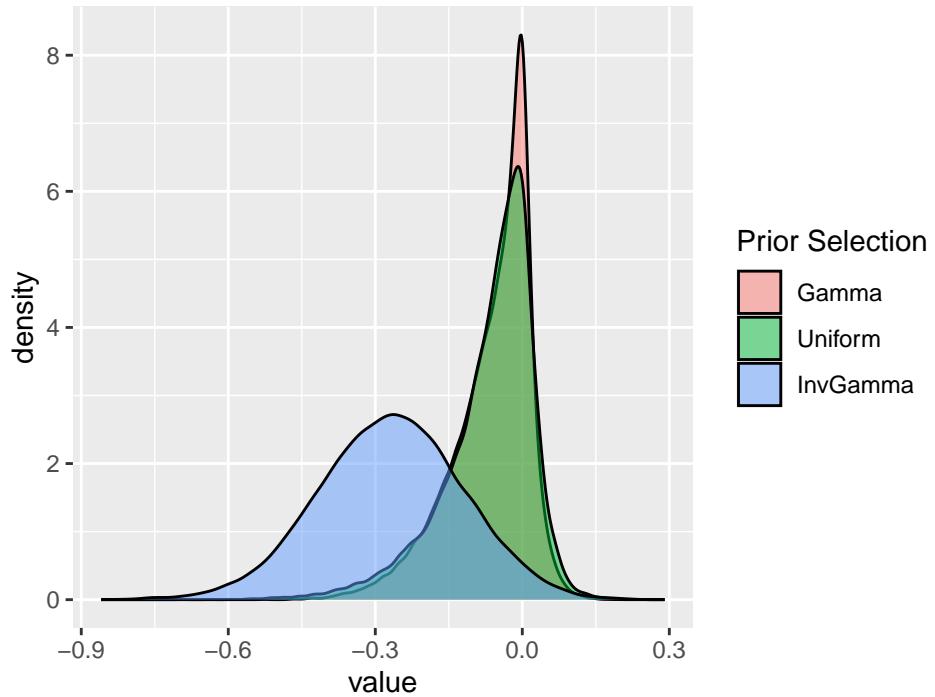
Posterior Density Plot of  $\text{beta1}[5]$



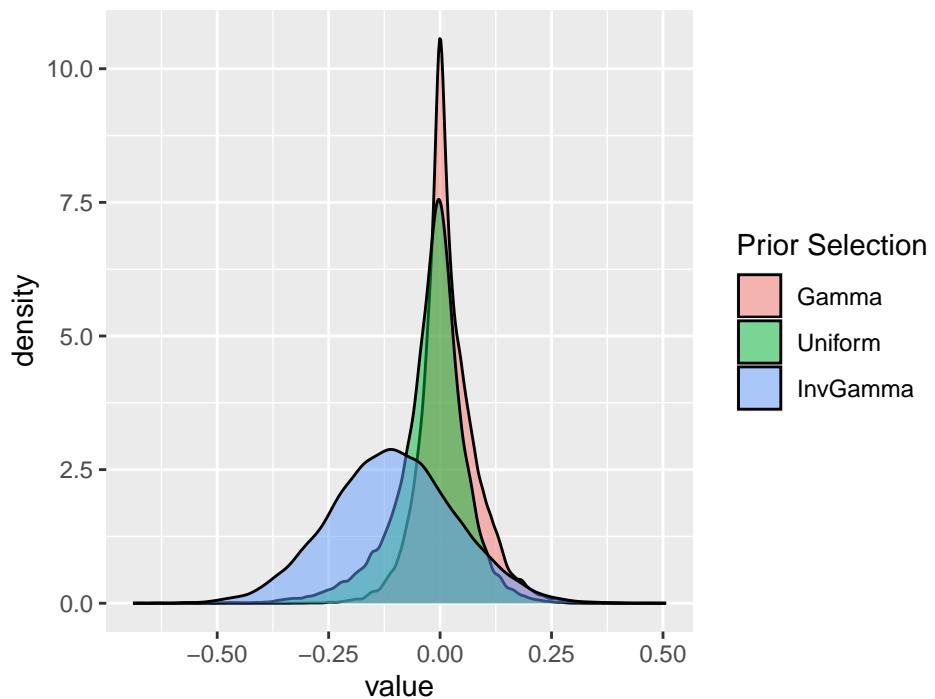
Posterior Density Plot of  $\text{beta1}[6]$



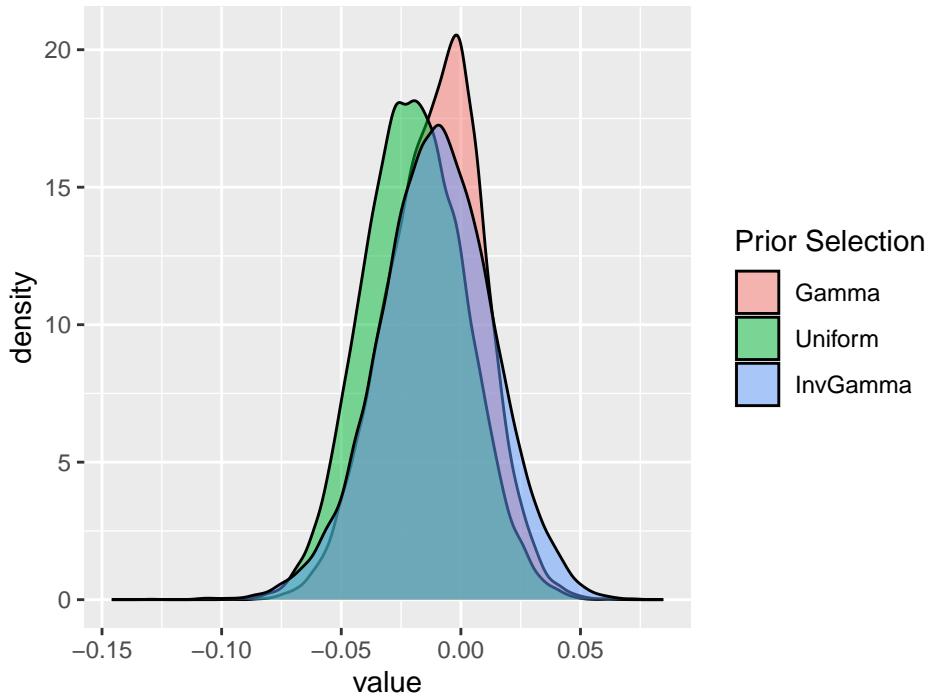
Posterior Density Plot of  $\text{beta1}[7]$



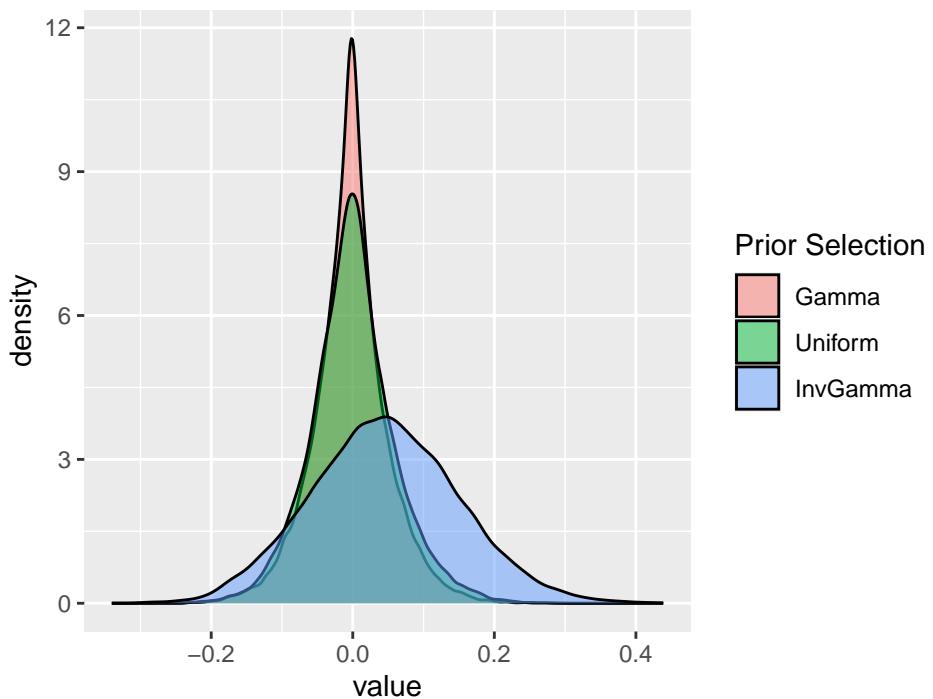
Posterior Density Plot of  $\text{beta1}[8]$



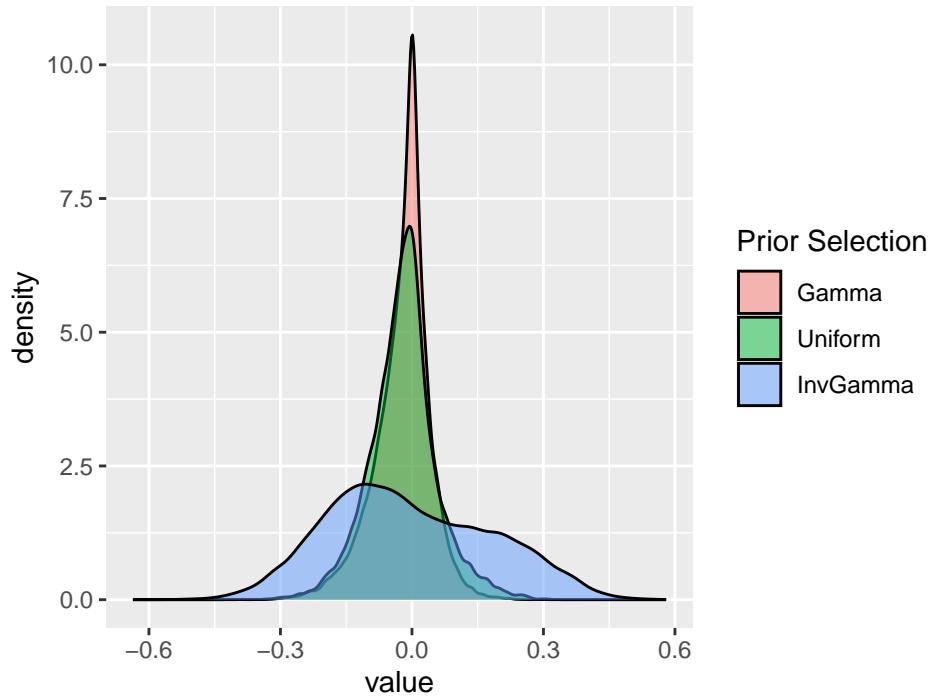
Posterior Density Plot of  $\text{beta1}[9]$



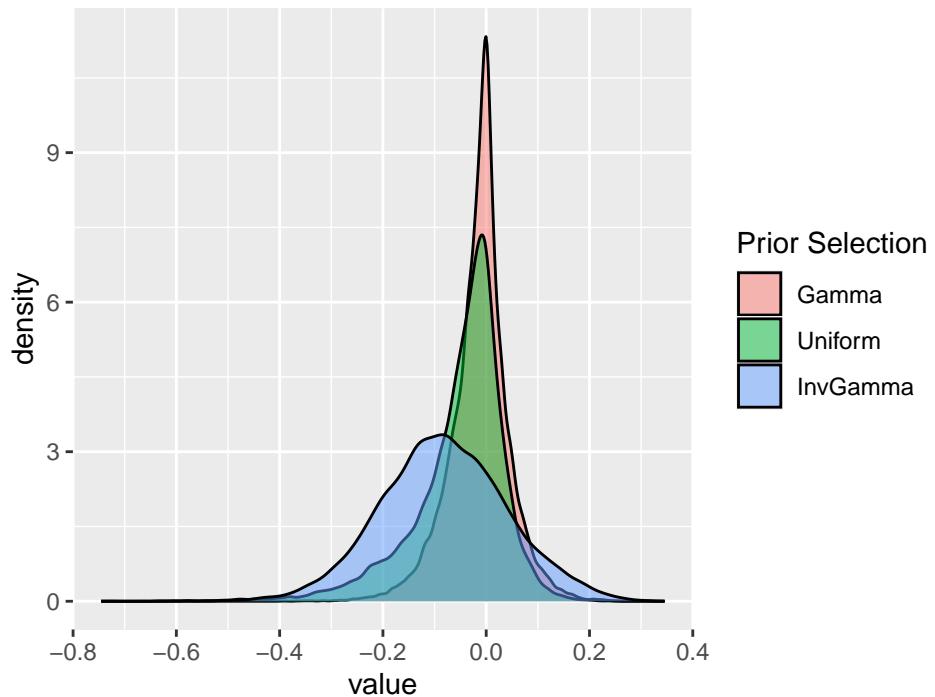
Posterior Density Plot of  $\text{beta1}[10]$



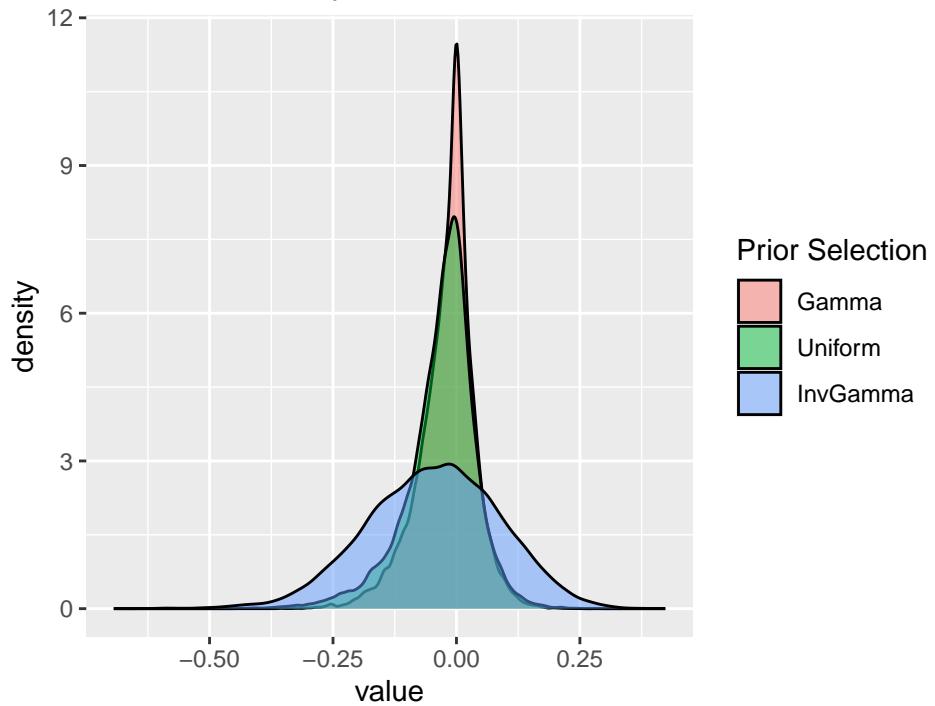
Posterior Density Plot of betal1[11]



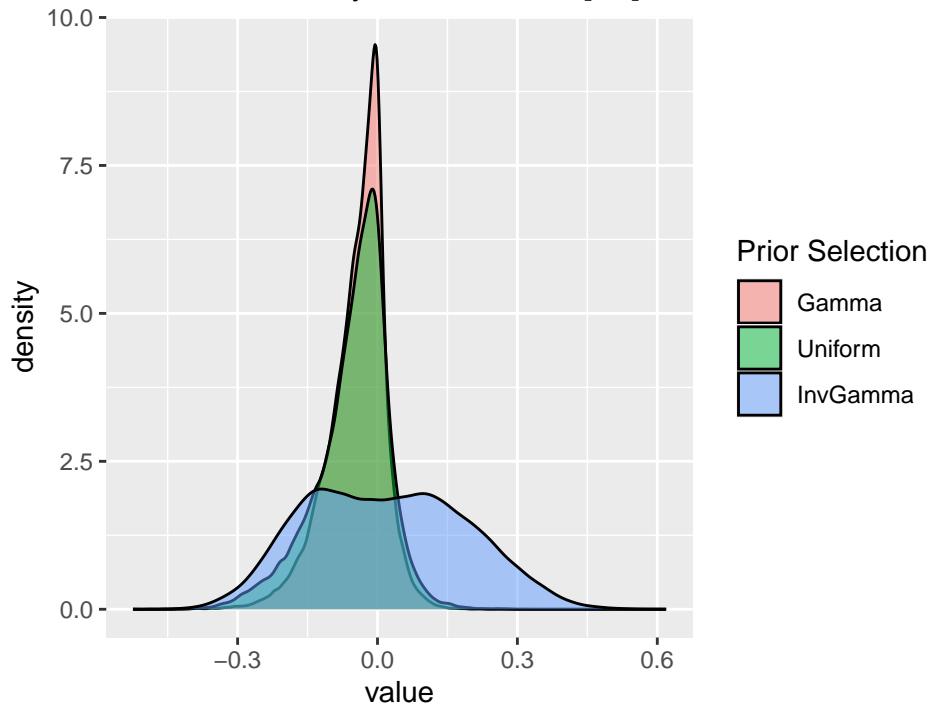
Posterior Density Plot of betal1[12]



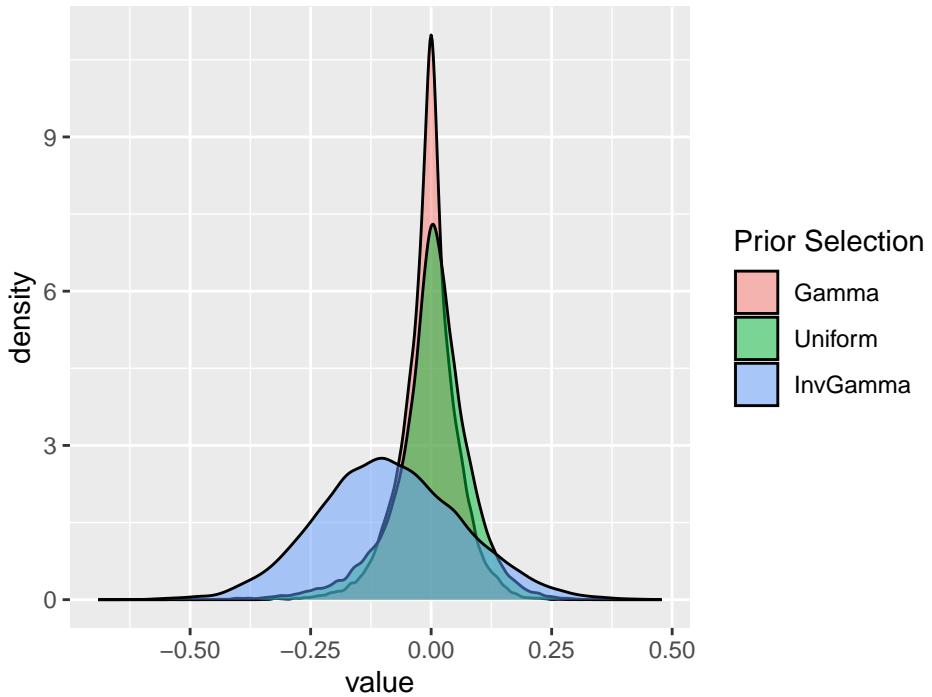
Posterior Density Plot of betal1[13]



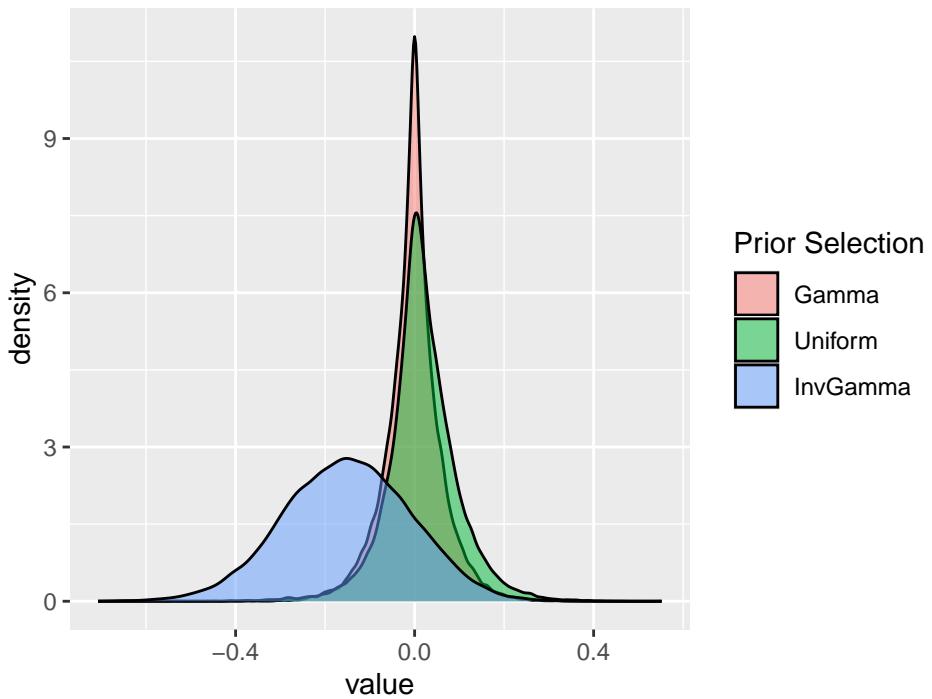
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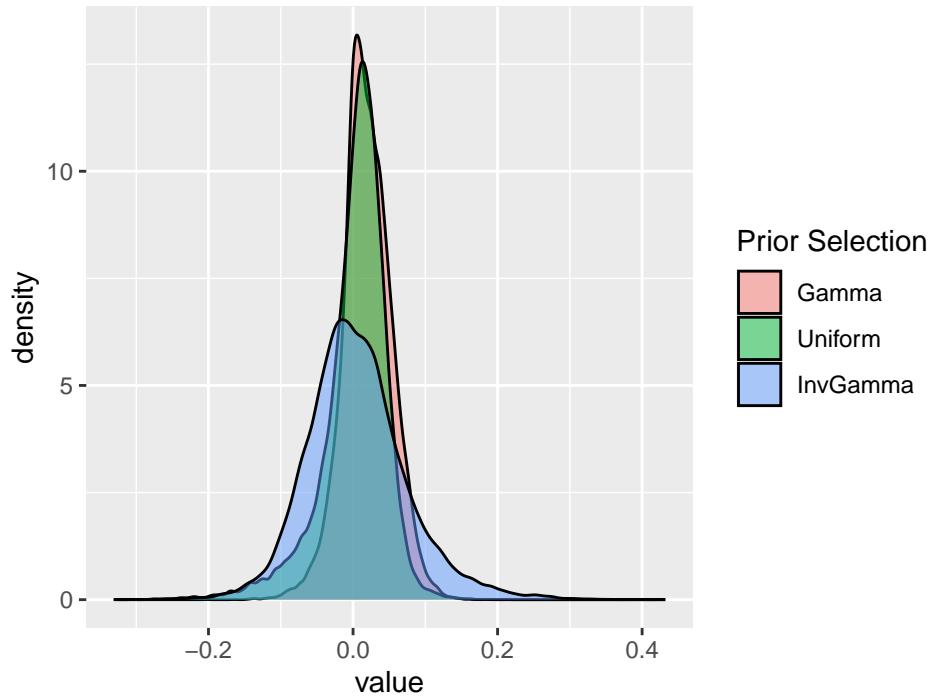
Posterior Density Plot of beta1[15]



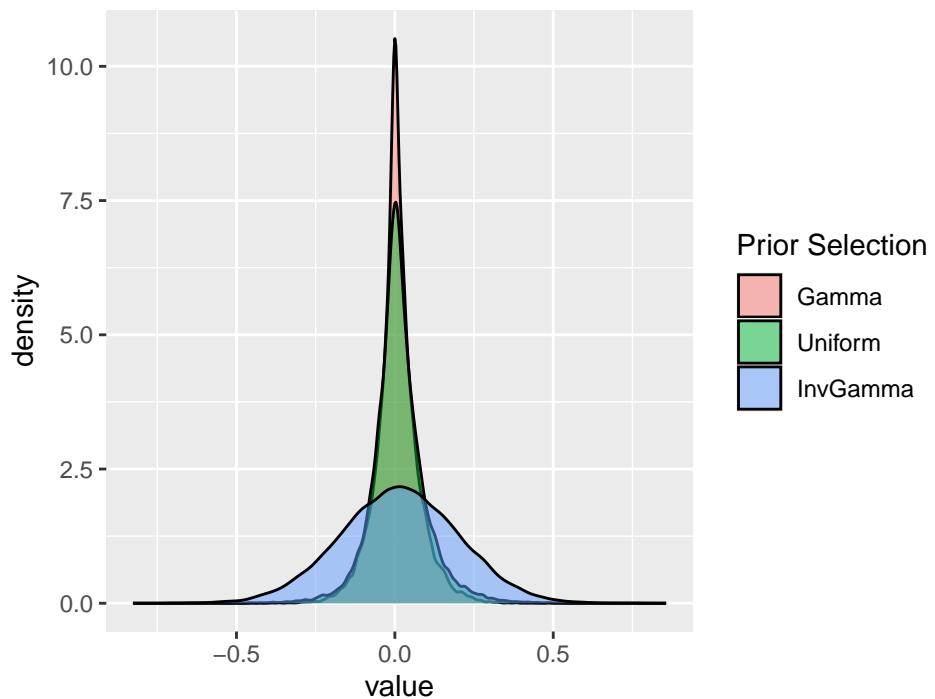
Posterior Density Plot of beta1[16]



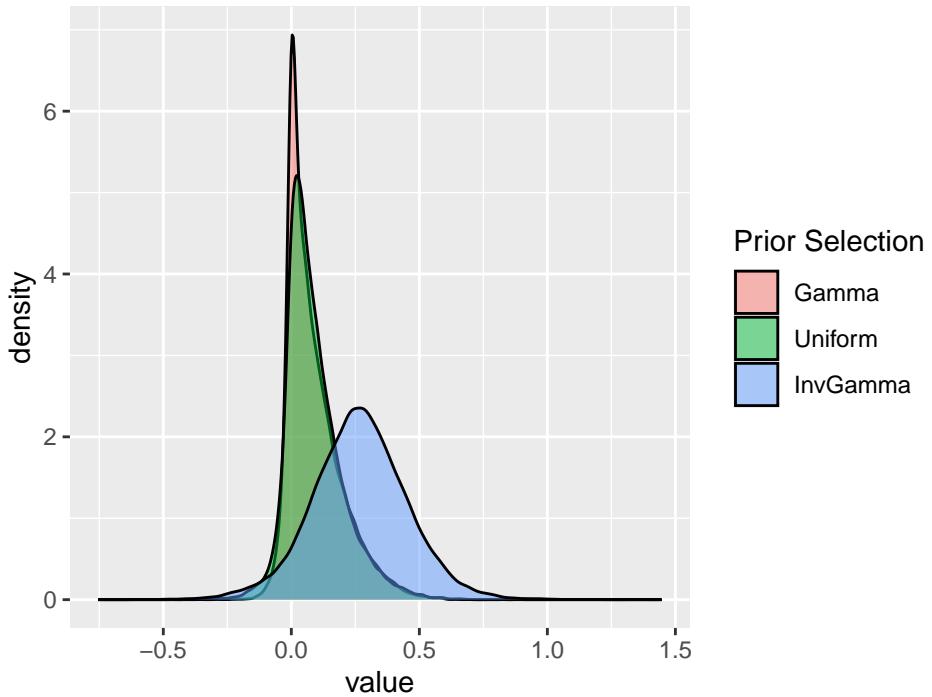
Posterior Density Plot of  $\text{beta1}[17]$



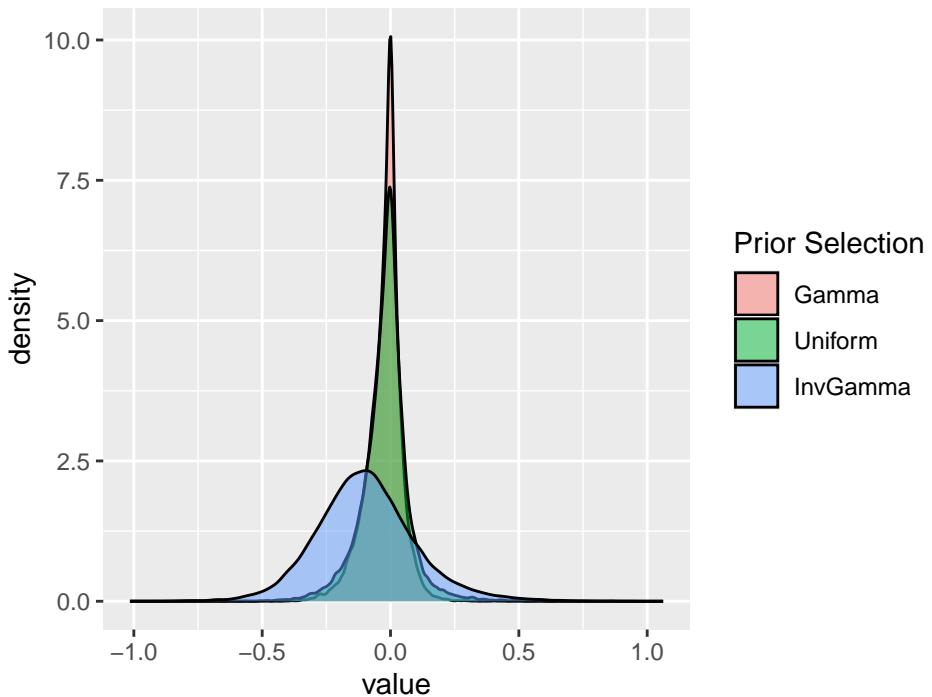
Posterior Density Plot of  $\text{beta1}[18]$



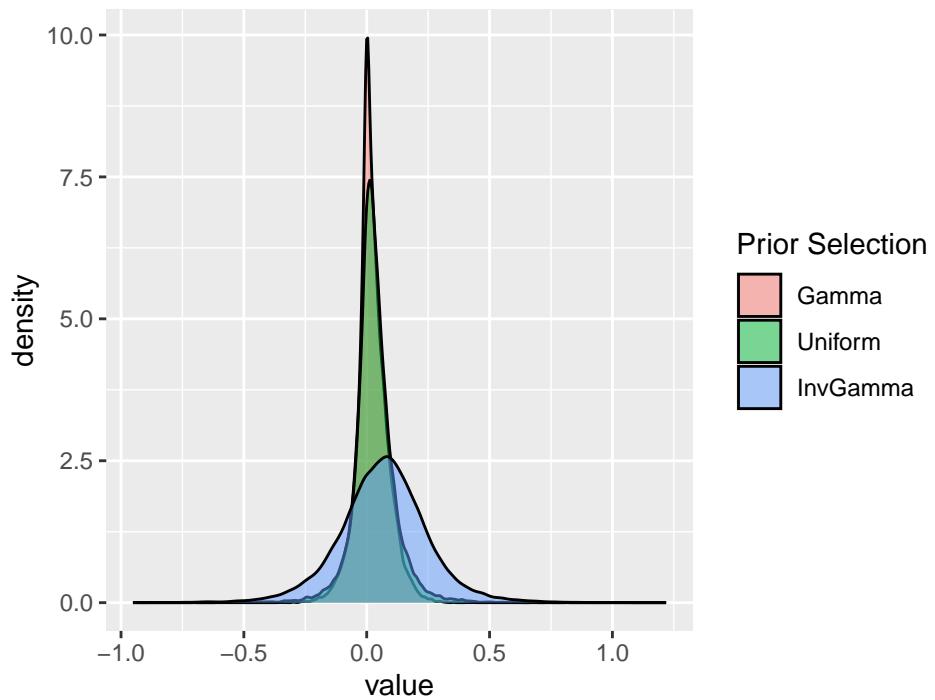
Posterior Density Plot of  $\text{beta1}[19]$



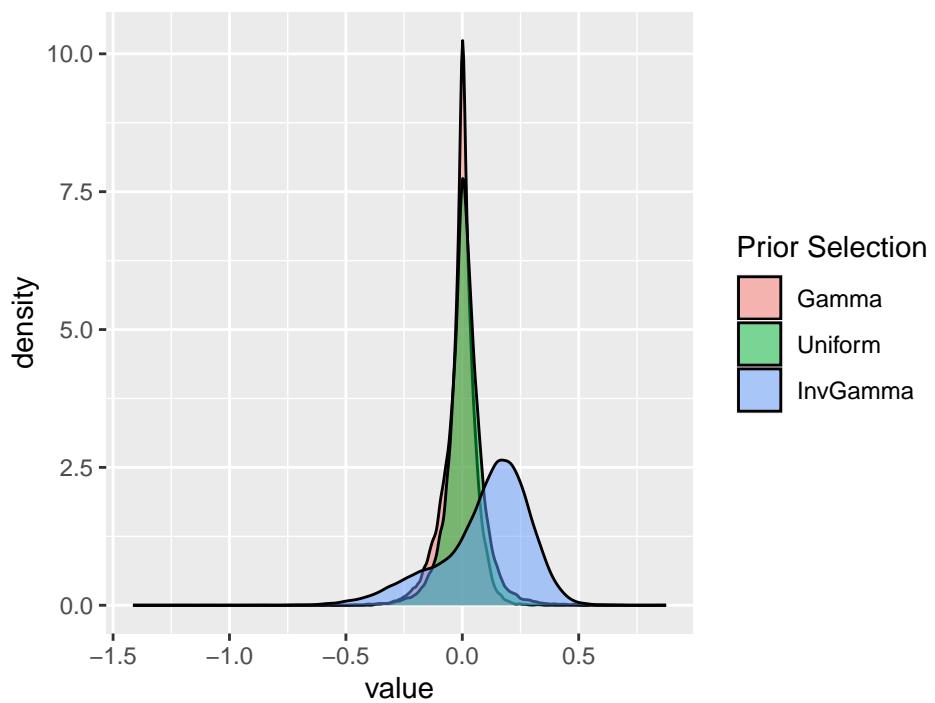
Posterior Density Plot of  $\text{beta1}[20]$



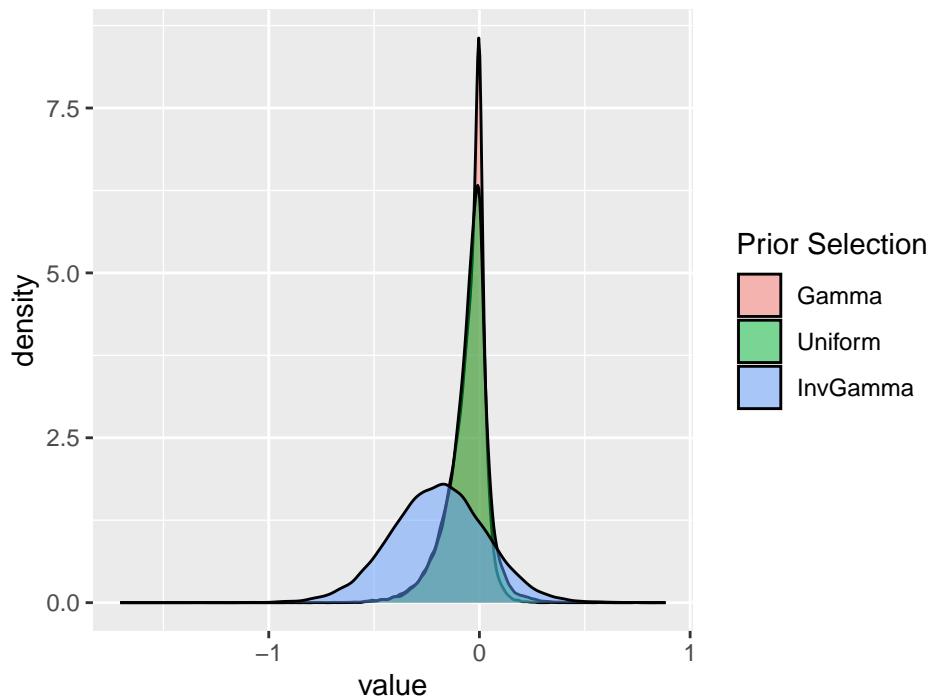
Posterior Density Plot of beta1[21]



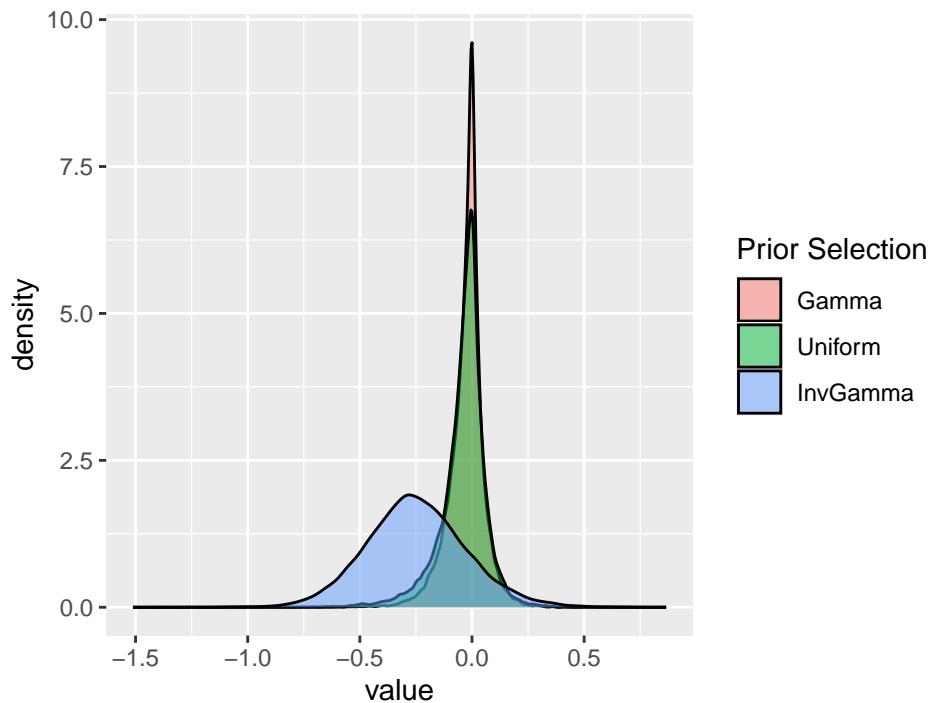
Posterior Density Plot of beta1[22]



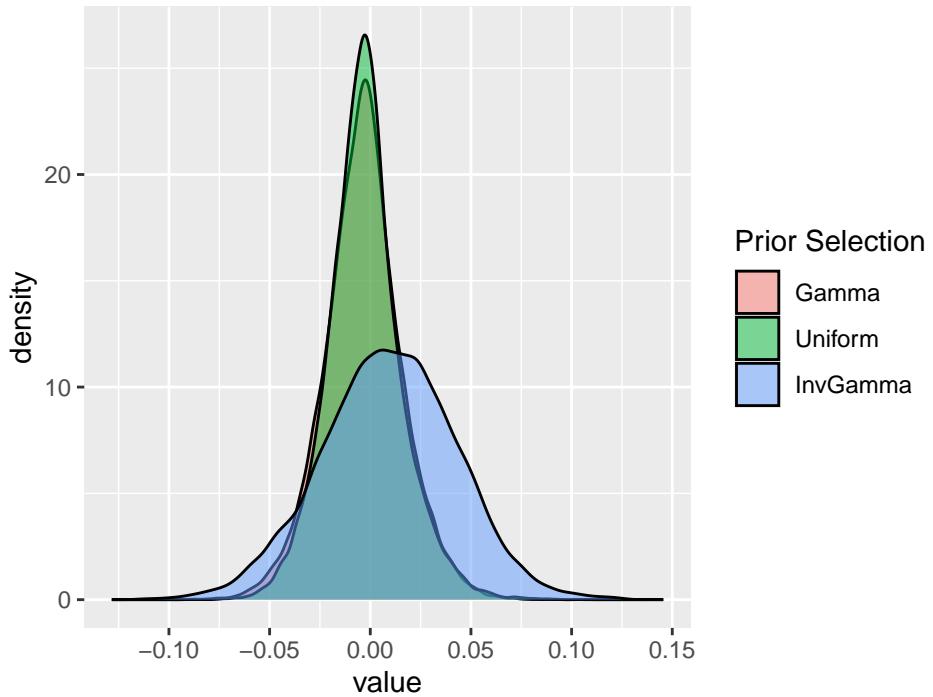
Posterior Density Plot of  $\text{beta1}[23]$



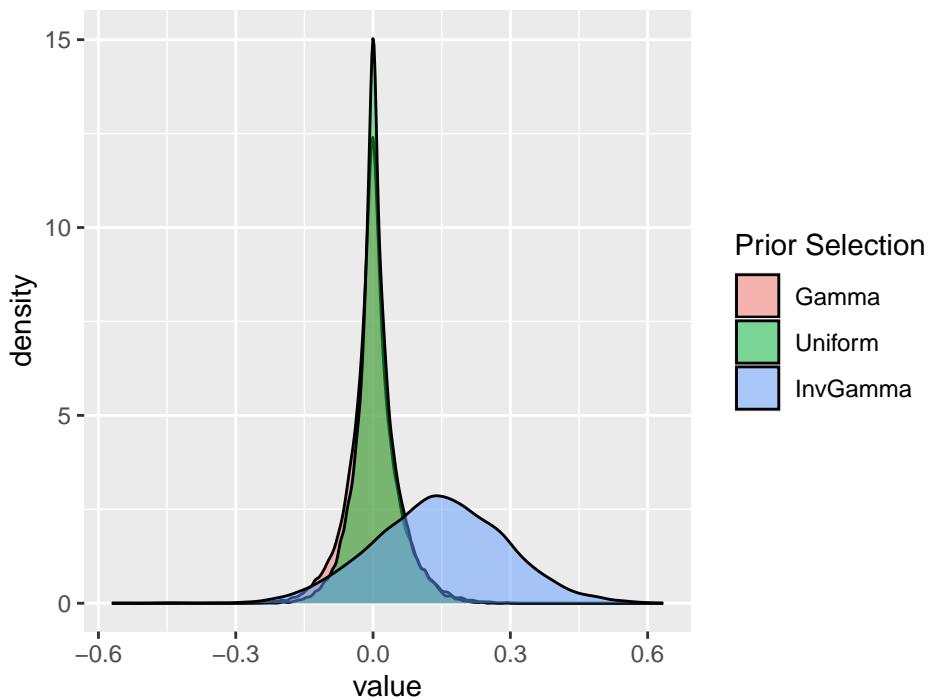
Posterior Density Plot of  $\text{beta1}[24]$



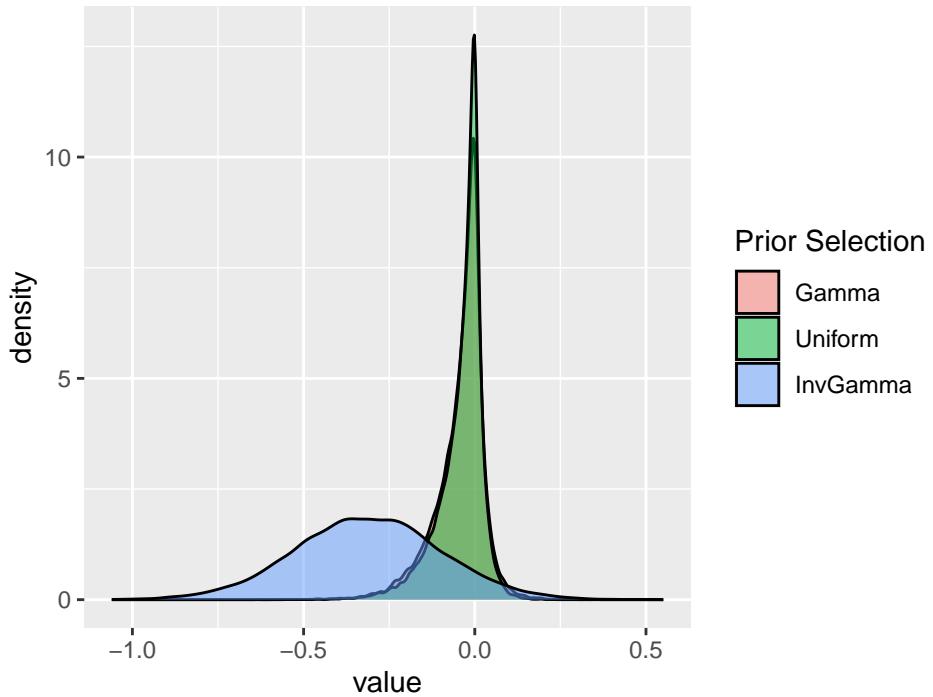
Posterior Density Plot of  $\beta_{2[1]}$



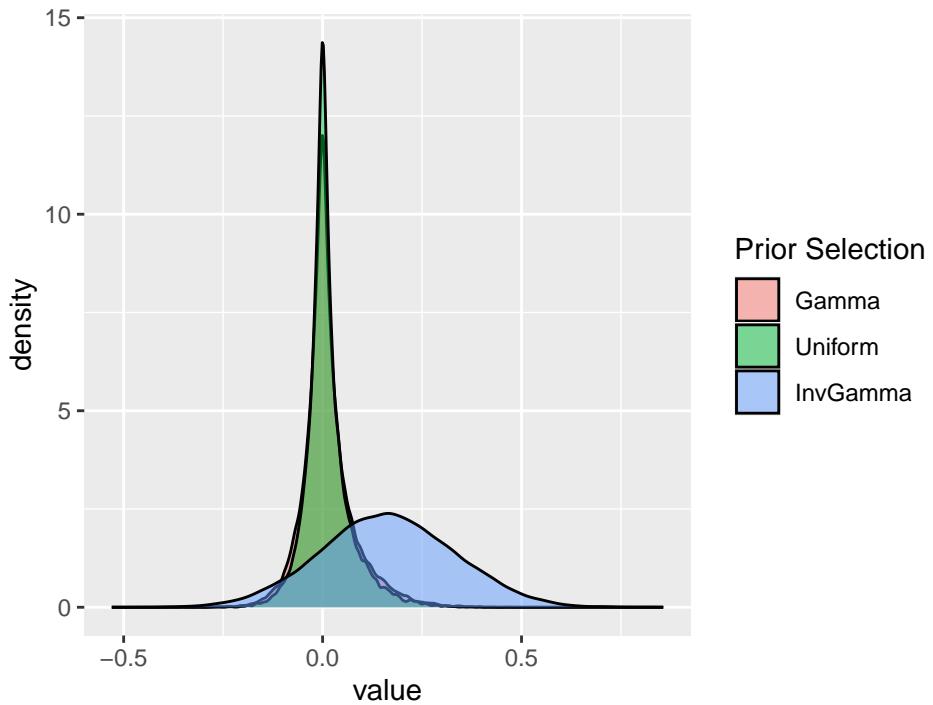
Posterior Density Plot of  $\beta_{2[2]}$



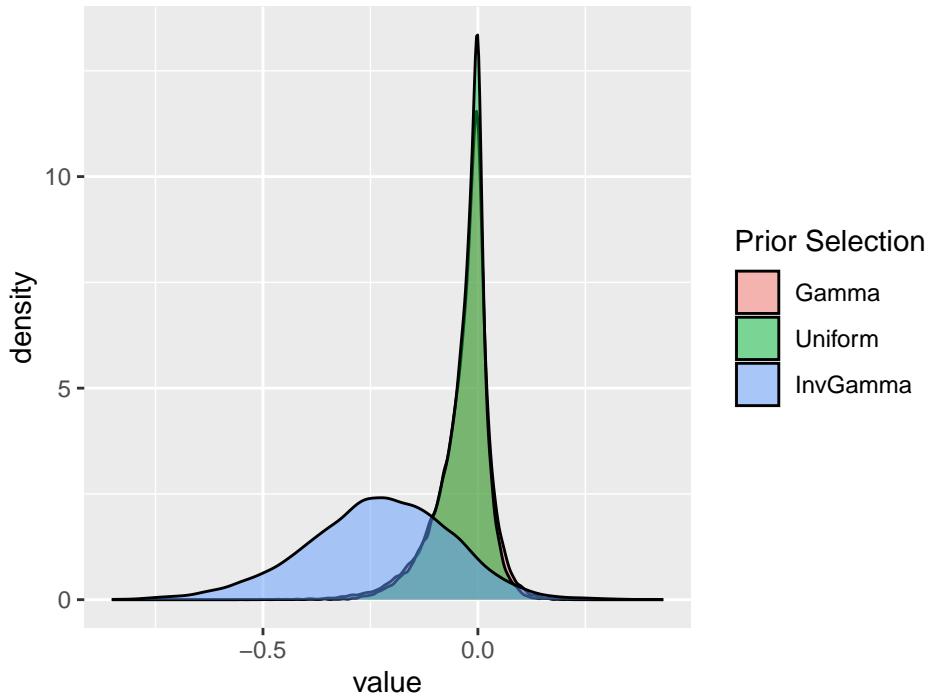
Posterior Density Plot of  $\text{beta2}[3]$



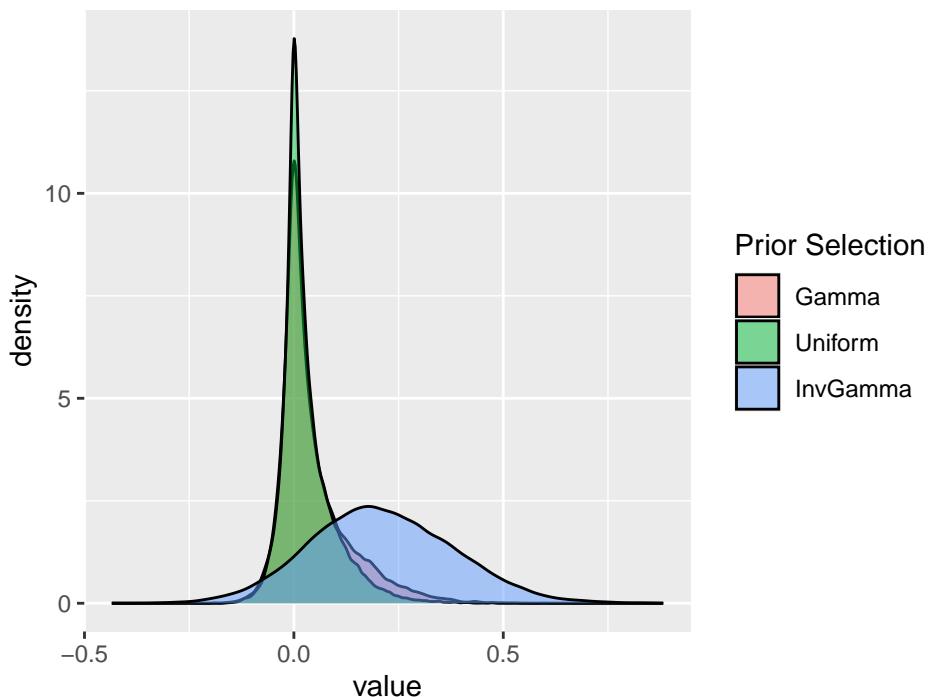
Posterior Density Plot of  $\text{beta2}[4]$



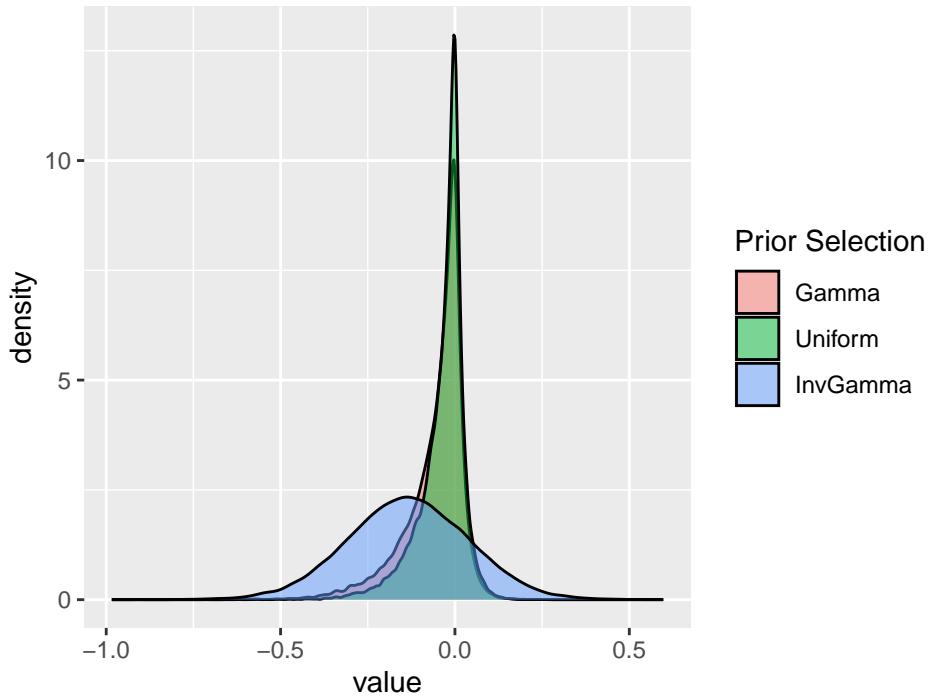
Posterior Density Plot of  $\text{beta}2[5]$



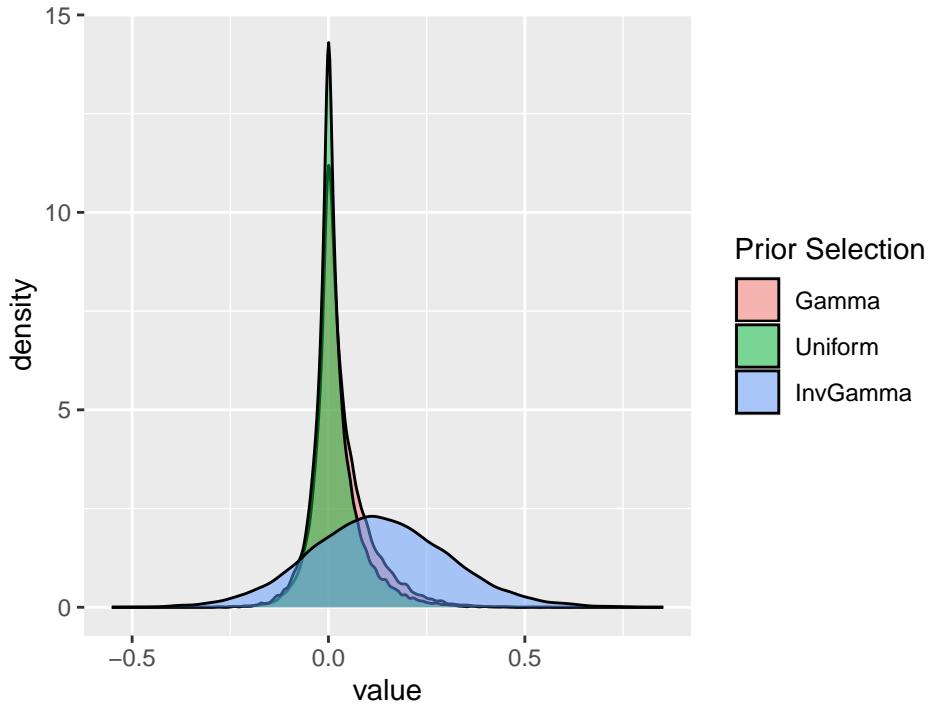
Posterior Density Plot of  $\text{beta}2[6]$



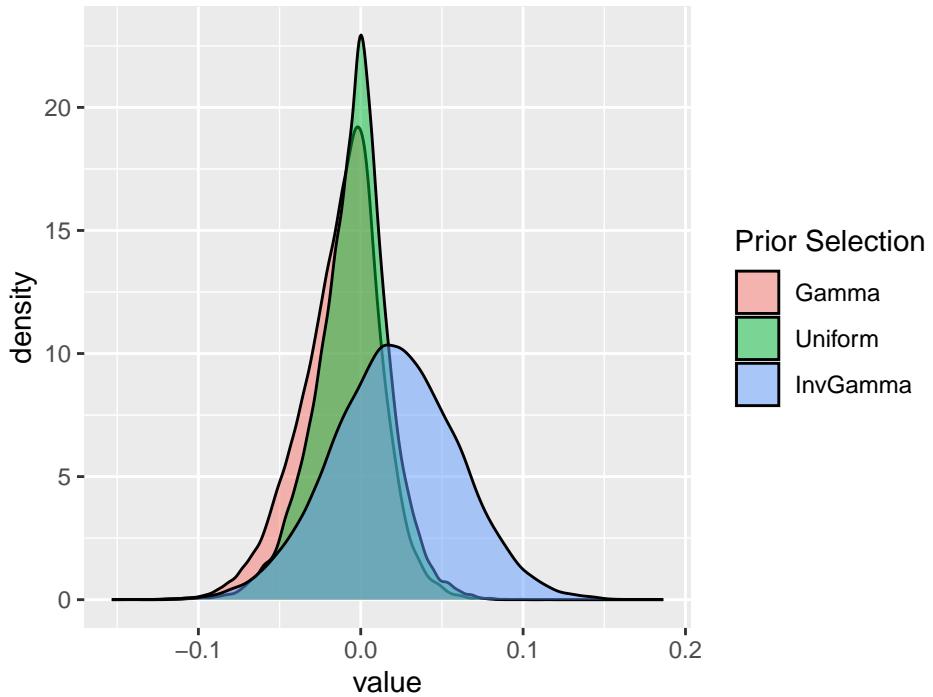
Posterior Density Plot of  $\text{beta2}[7]$



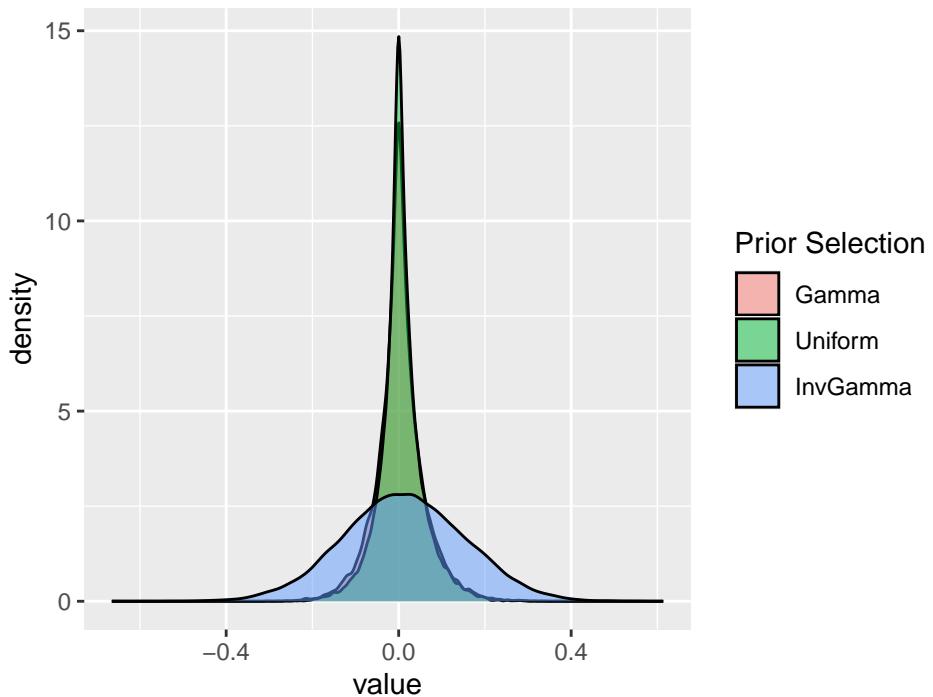
Posterior Density Plot of  $\text{beta2}[8]$



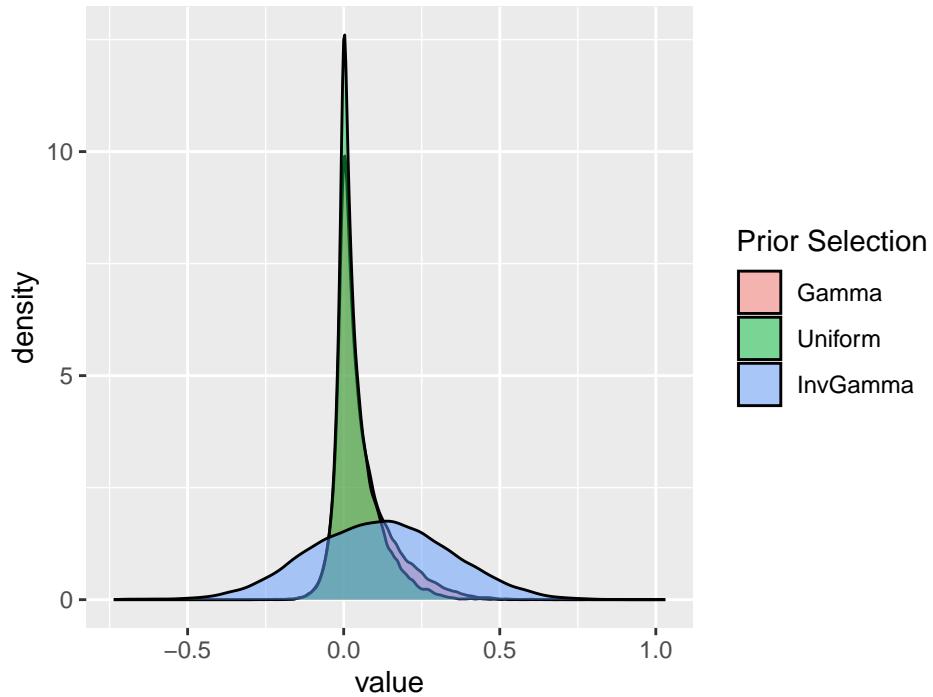
Posterior Density Plot of beta2[9]



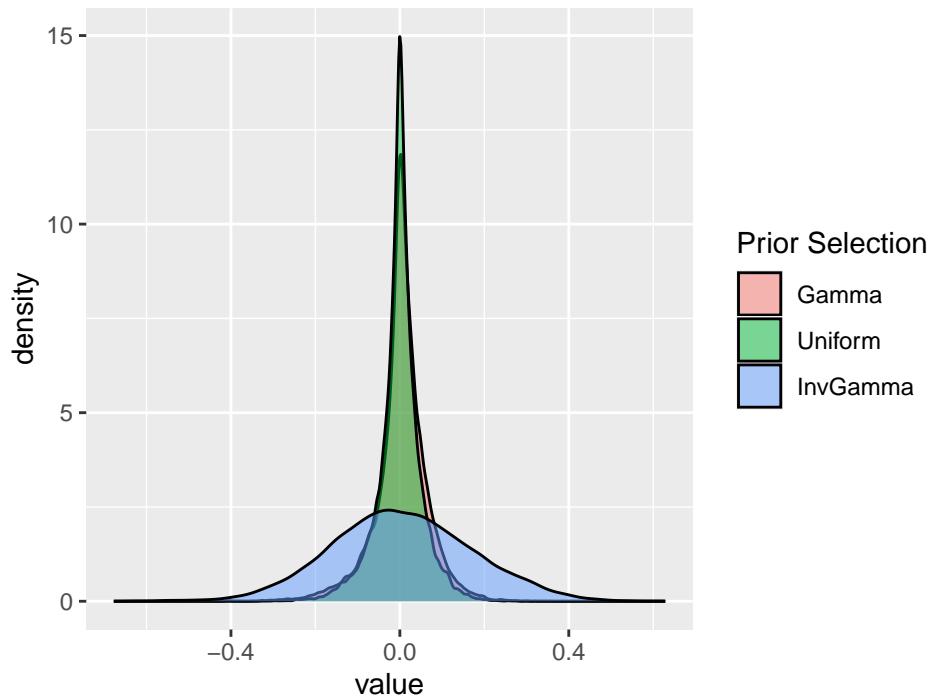
Posterior Density Plot of beta2[10]



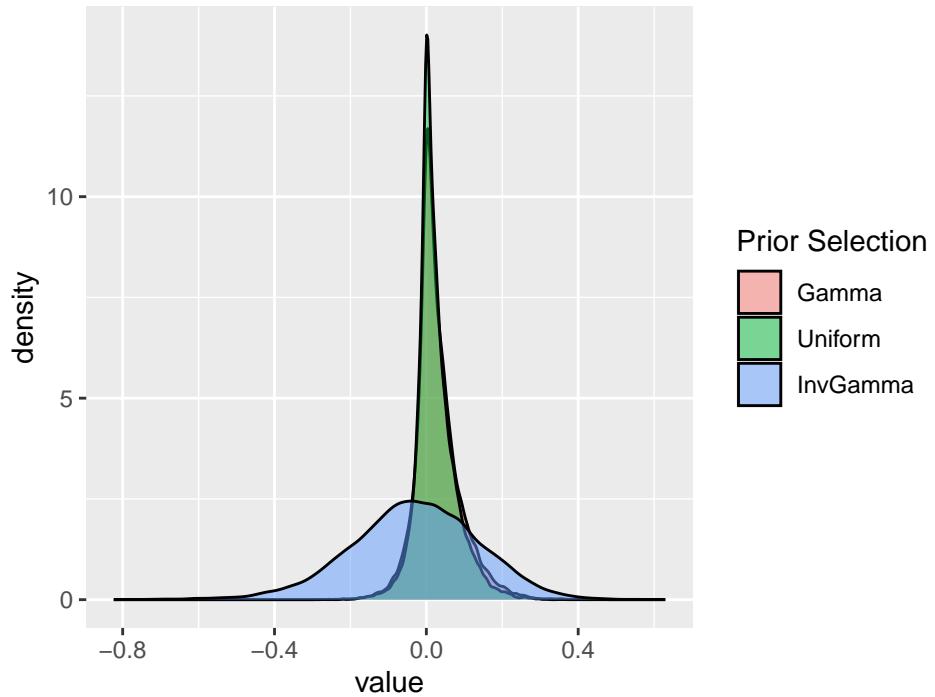
Posterior Density Plot of  $\text{beta}2[11]$



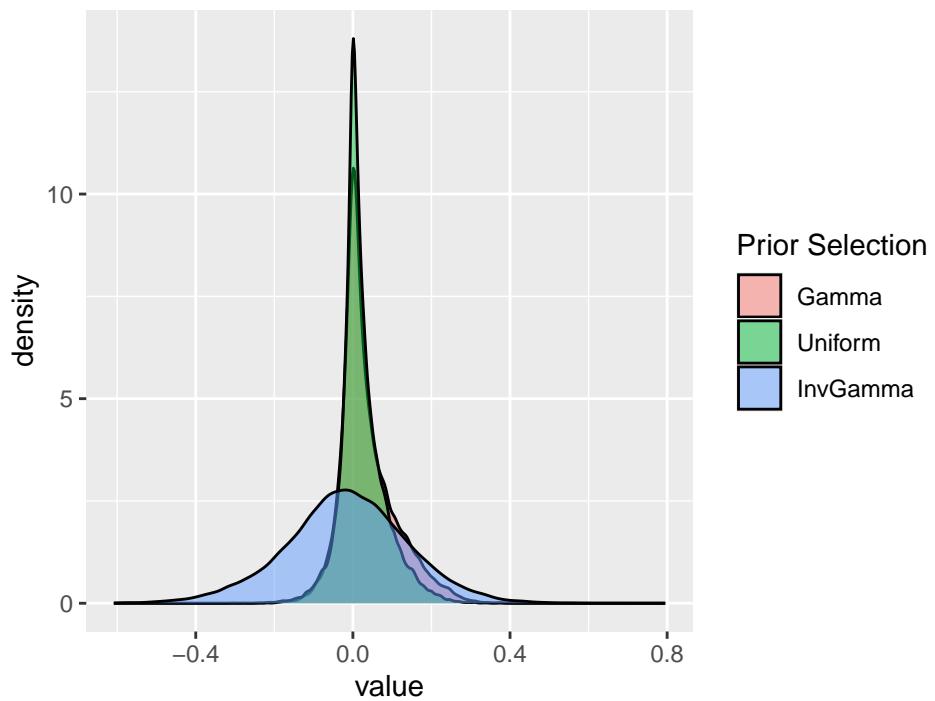
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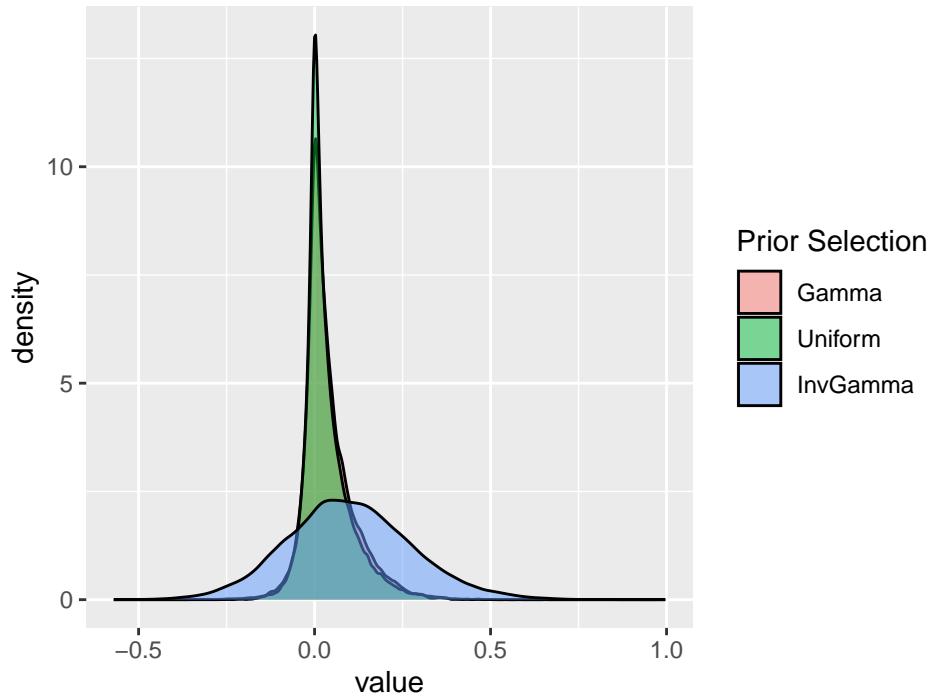
Posterior Density Plot of beta2[13]



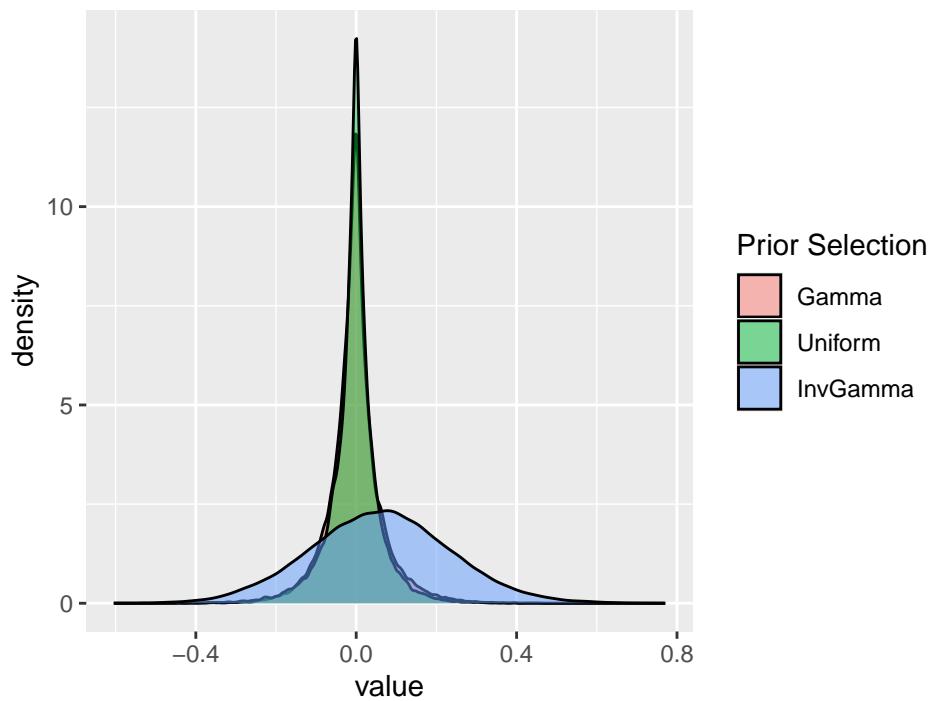
Posterior Density Plot of beta2[14]



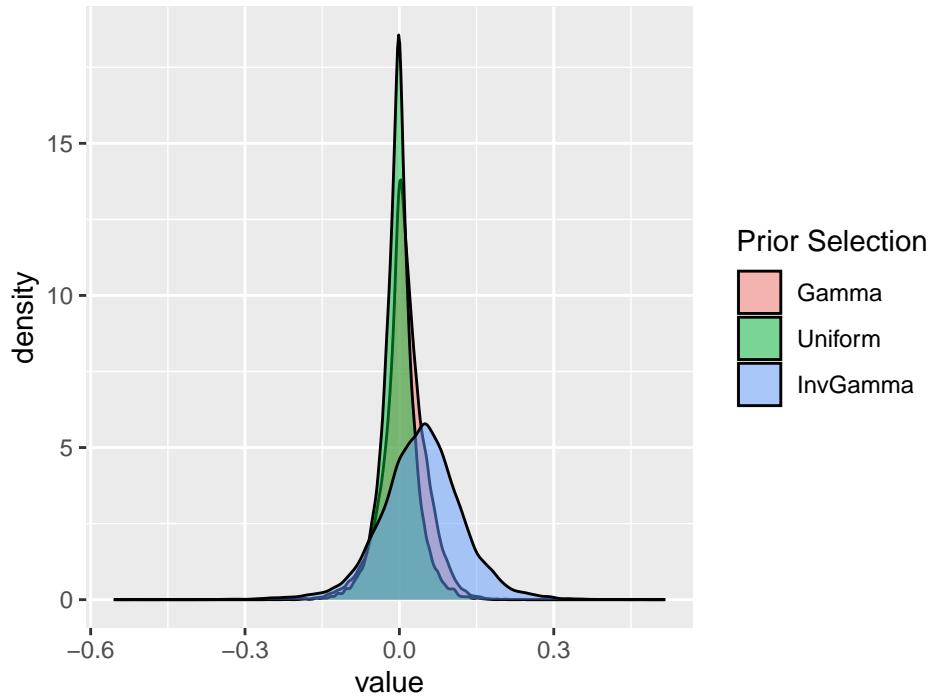
Posterior Density Plot of beta2[15]



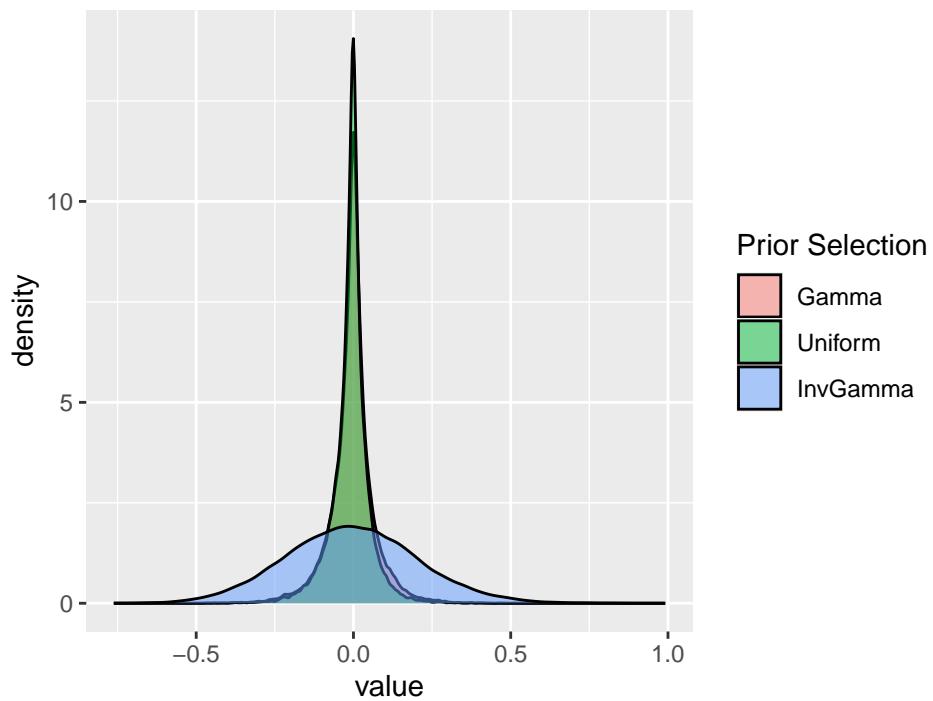
Posterior Density Plot of beta2[16]



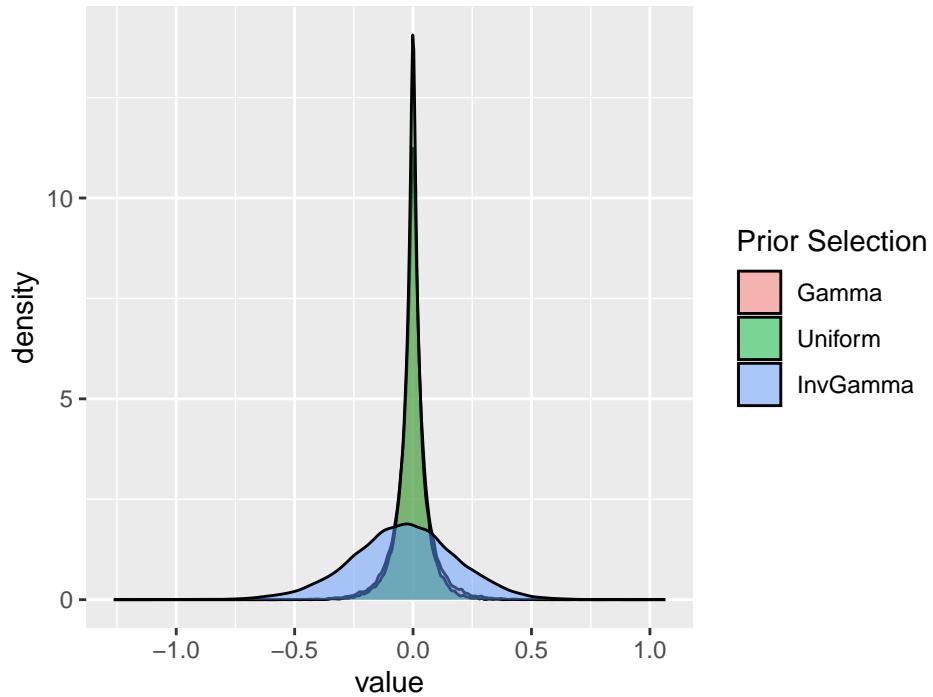
Posterior Density Plot of beta2[17]



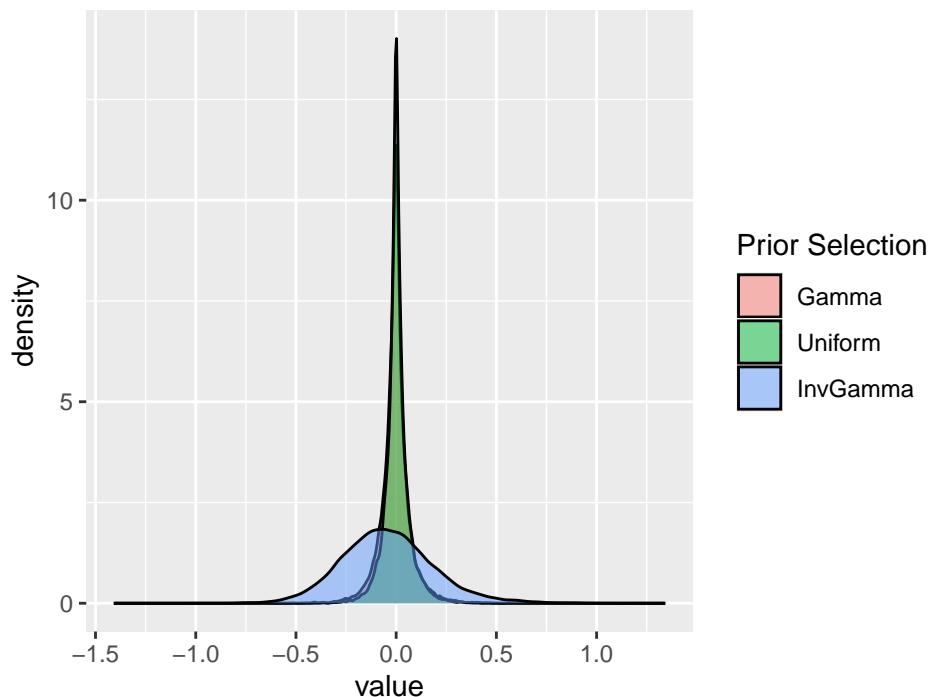
Posterior Density Plot of beta2[18]



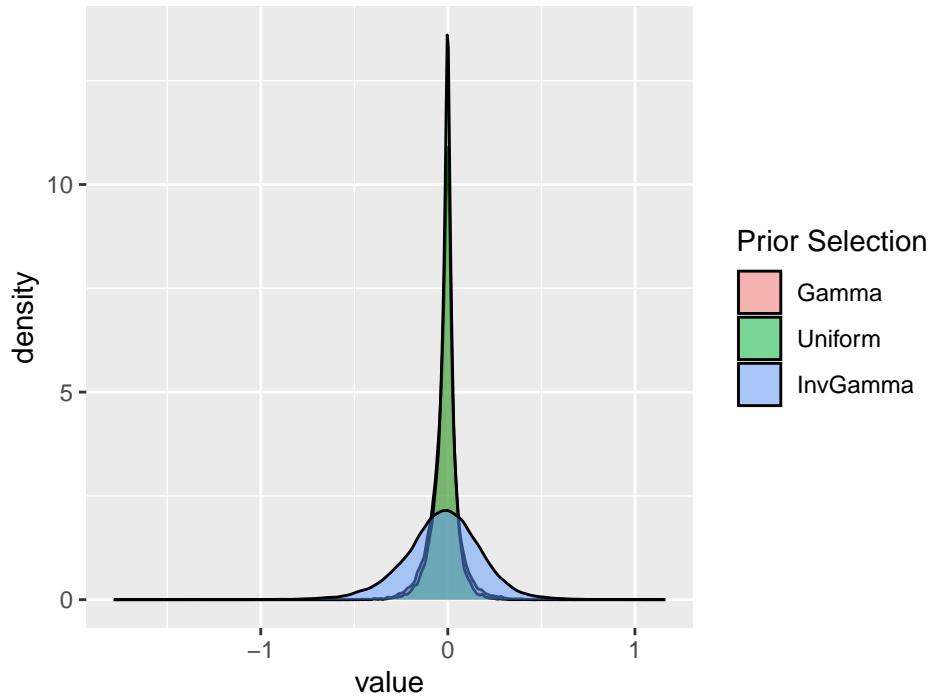
Posterior Density Plot of  $\text{beta}2[19]$



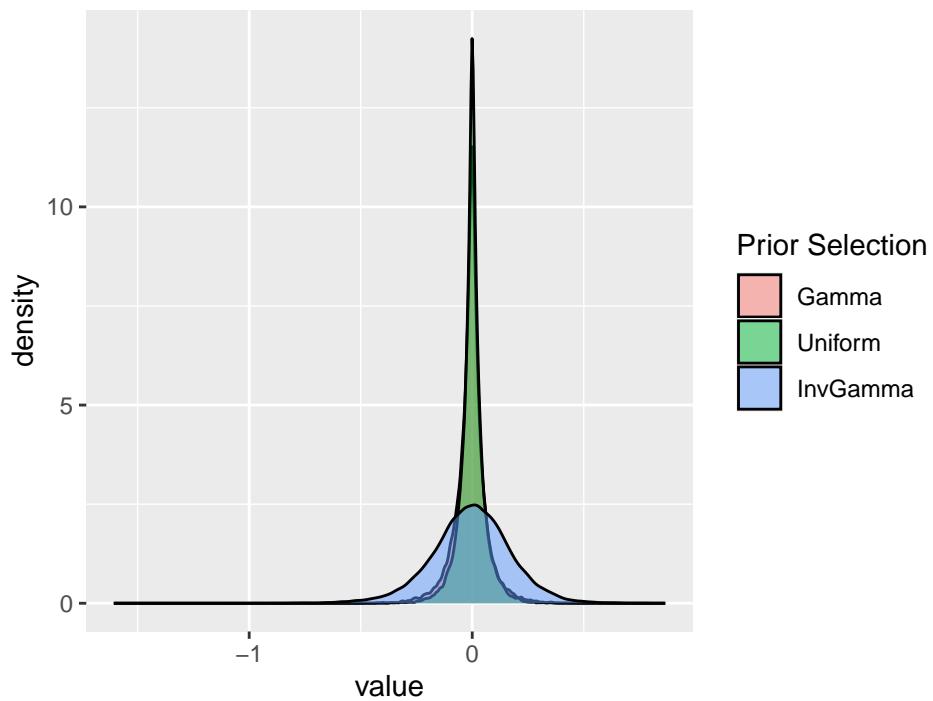
Posterior Density Plot of  $\text{beta}2[20]$



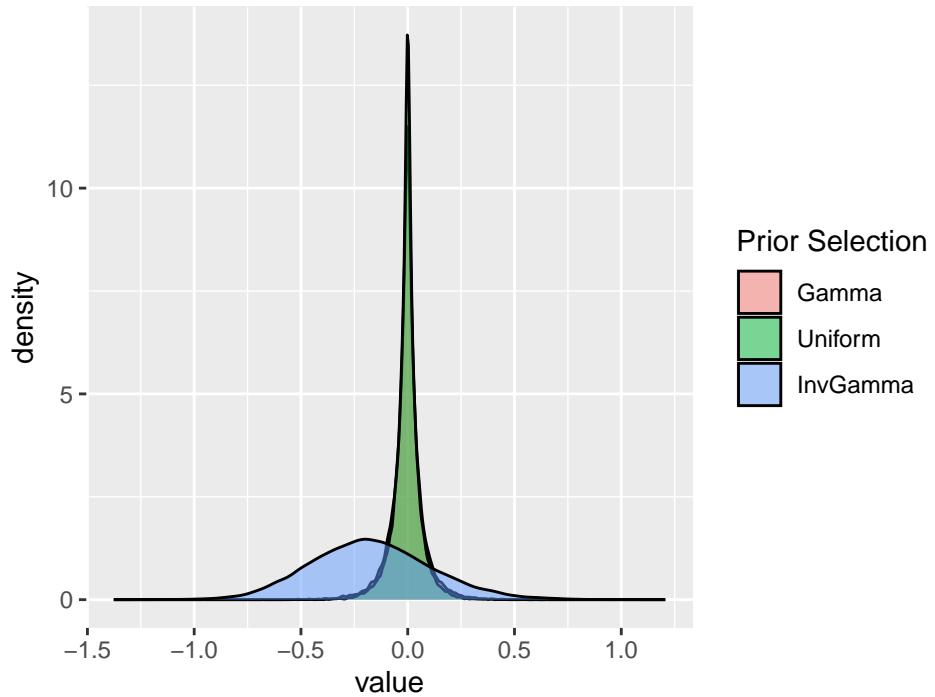
Posterior Density Plot of beta2[21]



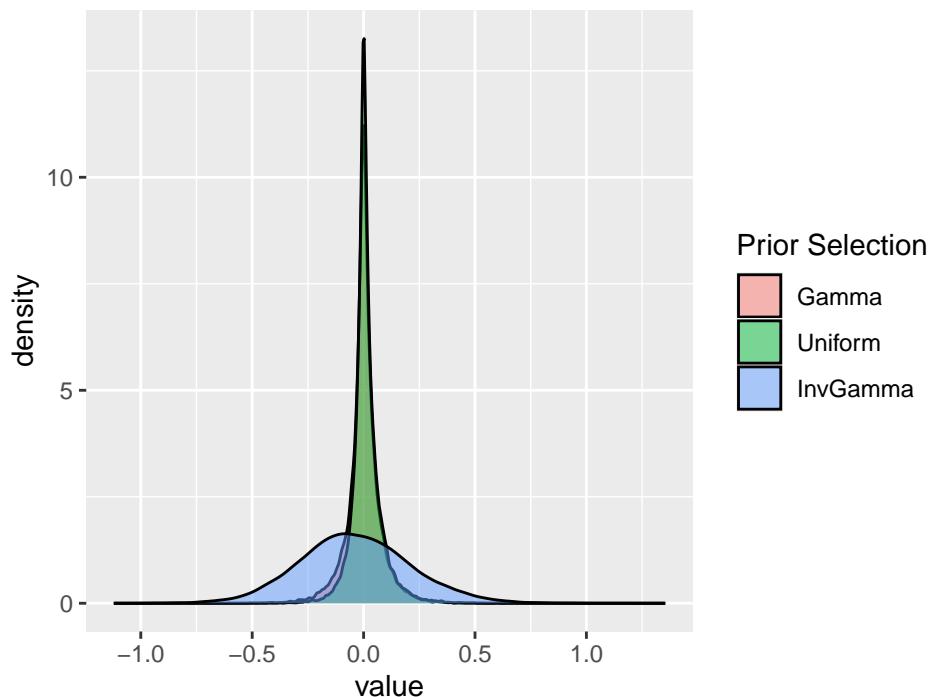
Posterior Density Plot of beta2[22]



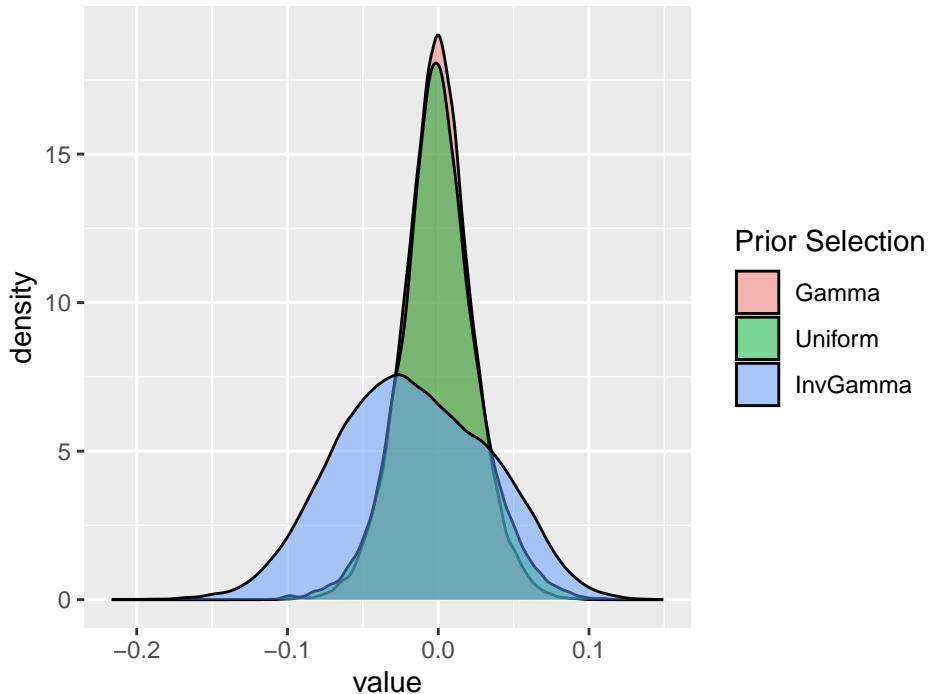
Posterior Density Plot of  $\text{beta}2[23]$



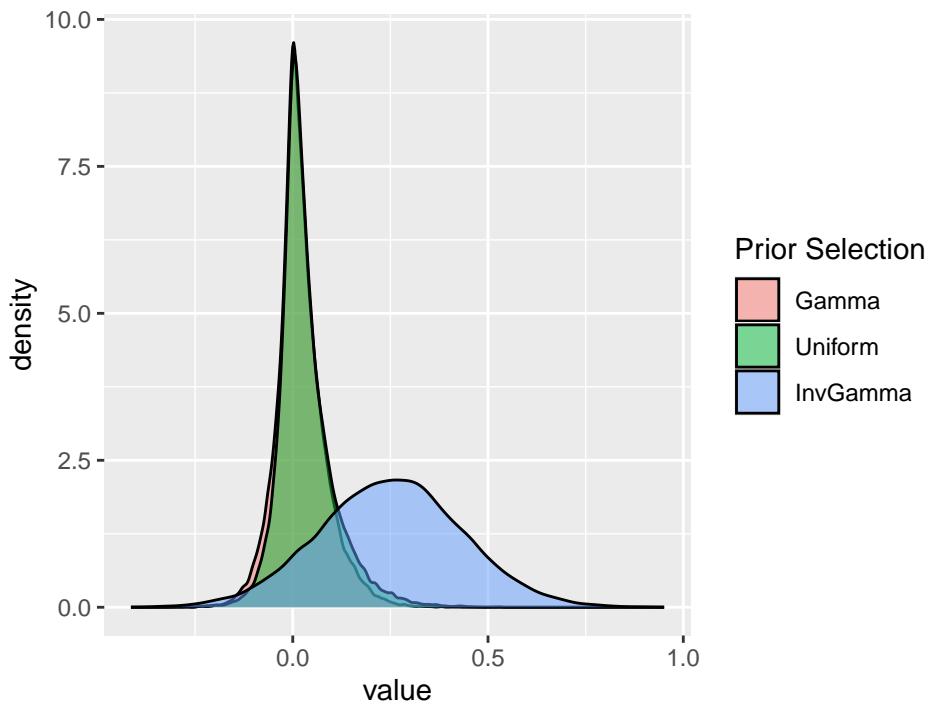
Posterior Density Plot of  $\text{beta}2[24]$



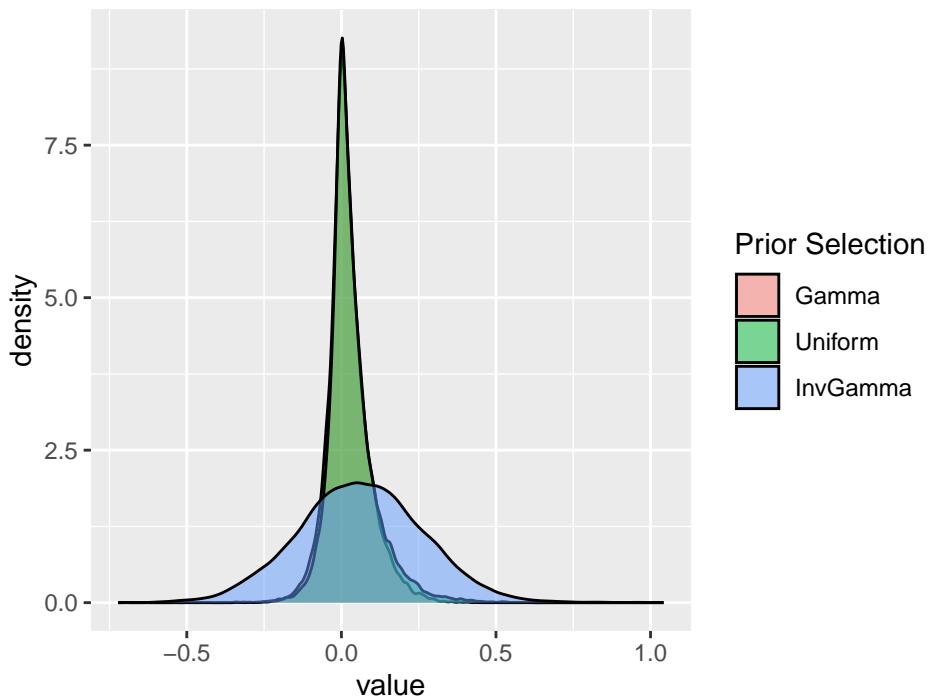
Posterior Density Plot of beta3[1]



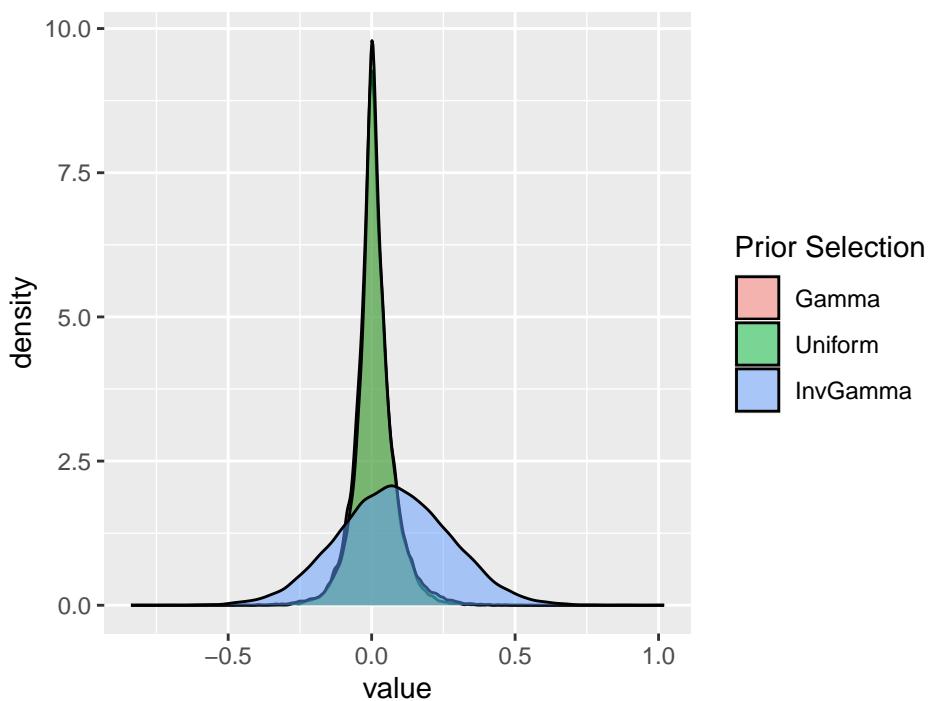
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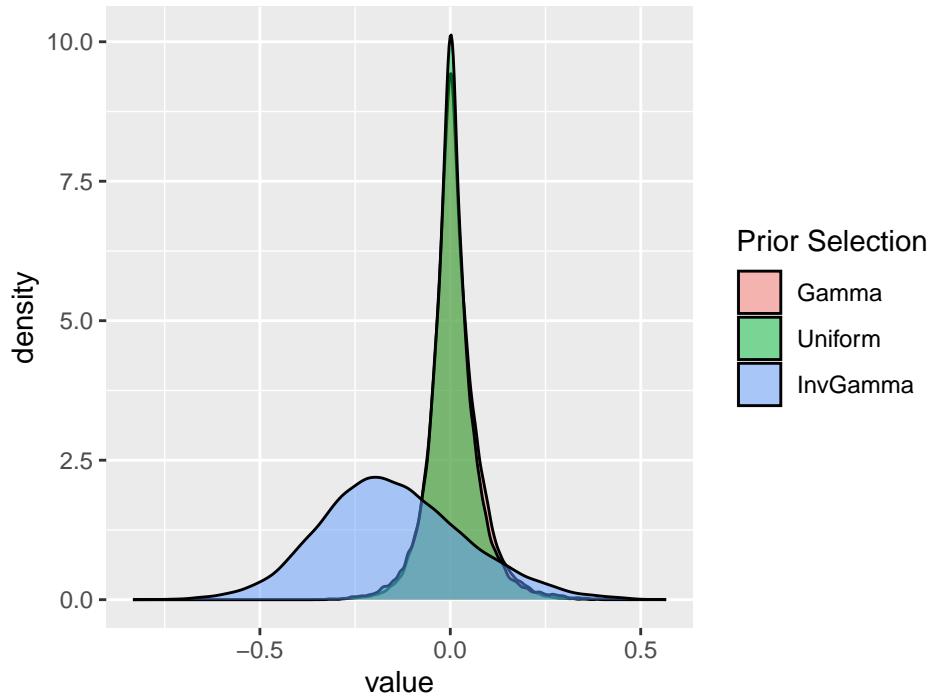
Posterior Density Plot of beta1[3]



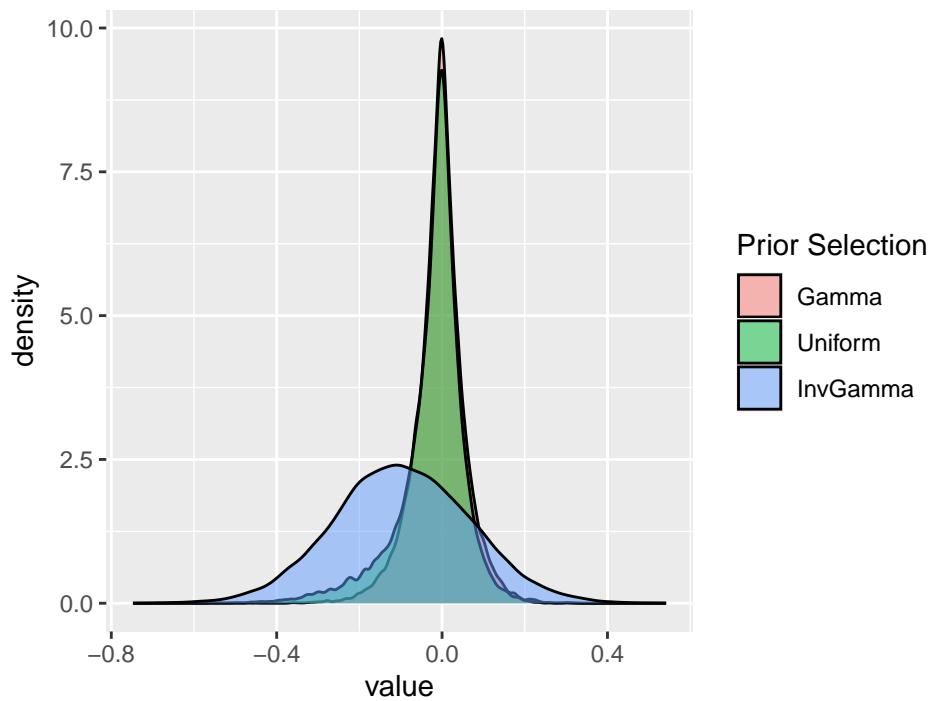
Posterior Density Plot of beta1[4]



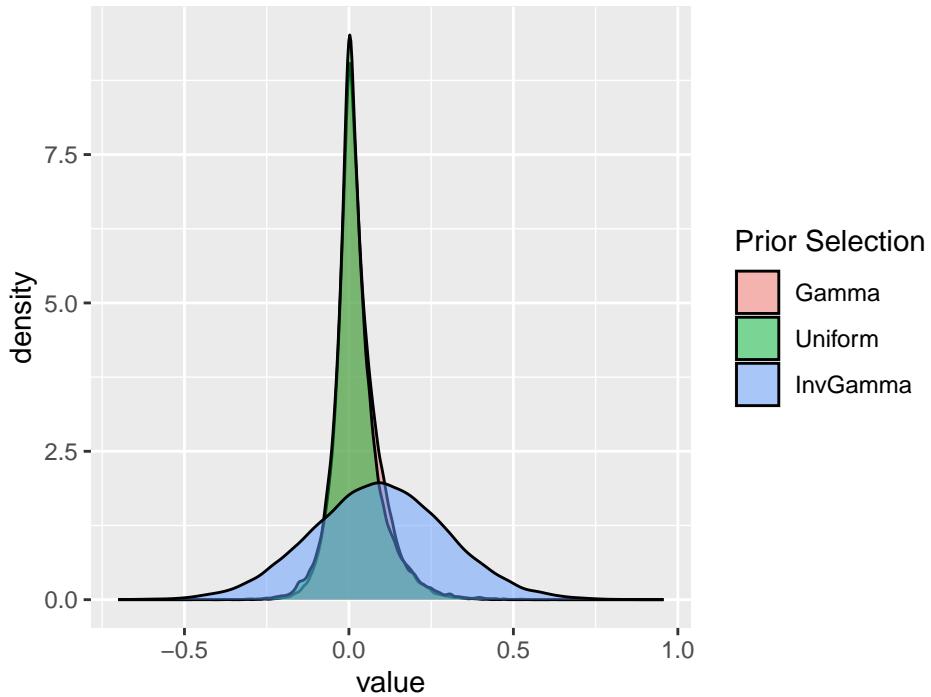
Posterior Density Plot of  $\text{beta}13[5]$



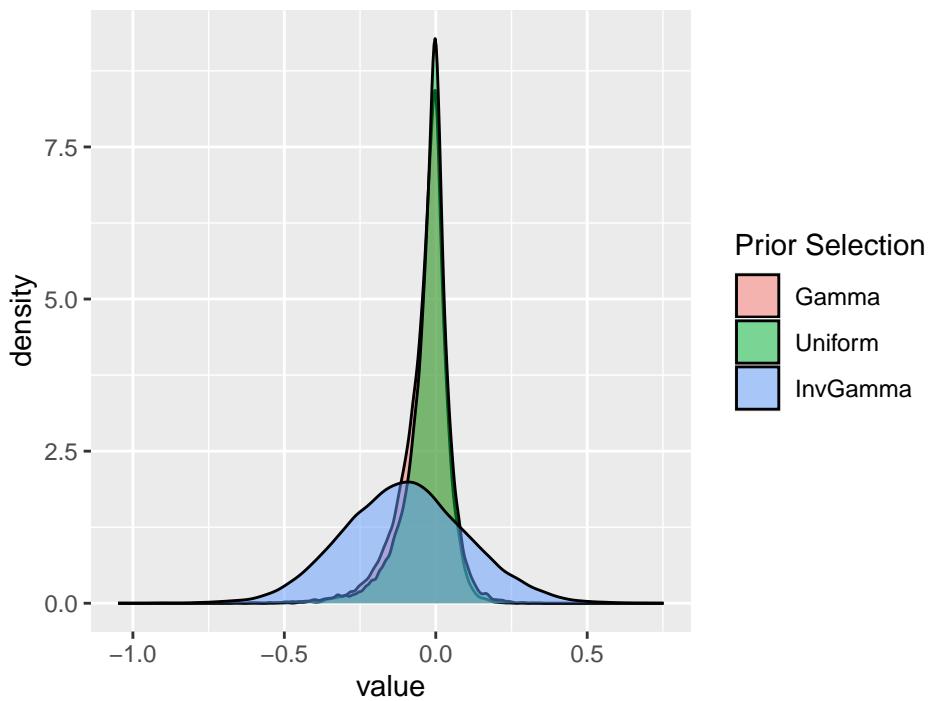
Posterior Density Plot of  $\text{beta}13[6]$



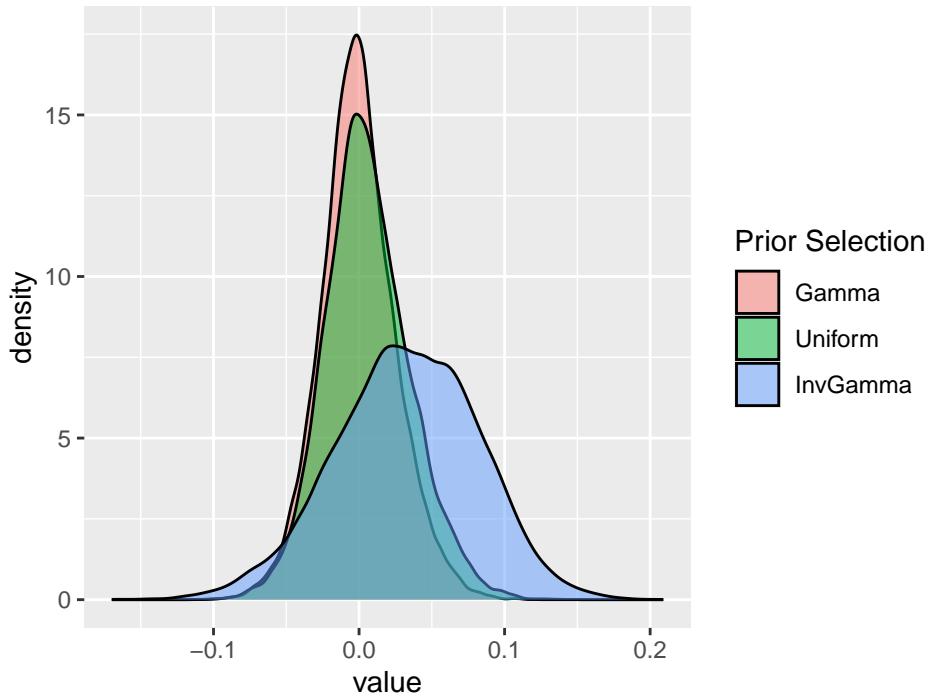
Posterior Density Plot of beta3[7]



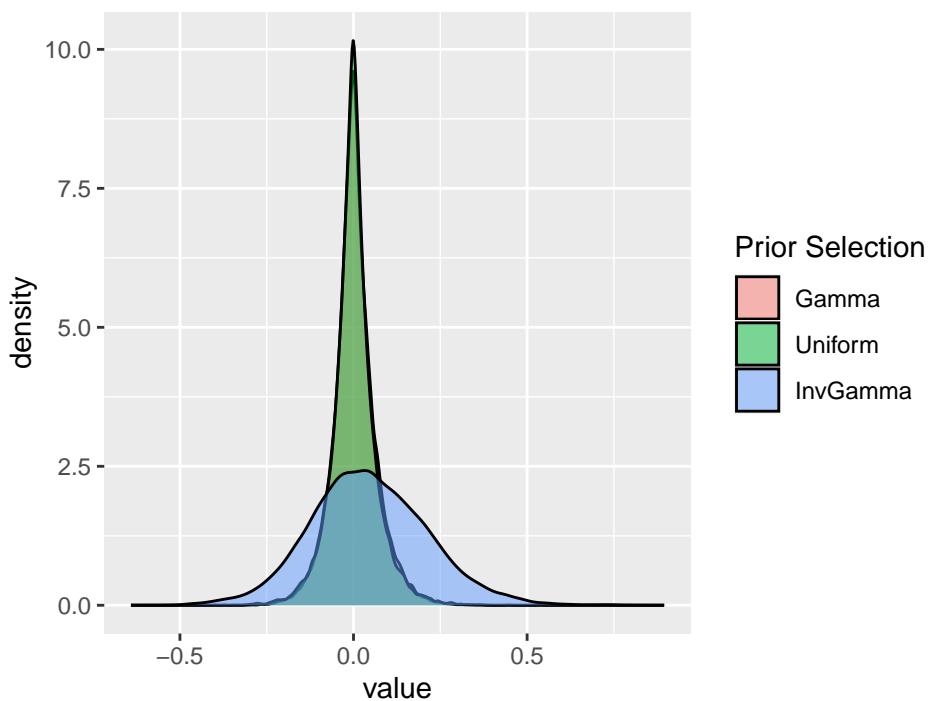
Posterior Density Plot of beta3[8]



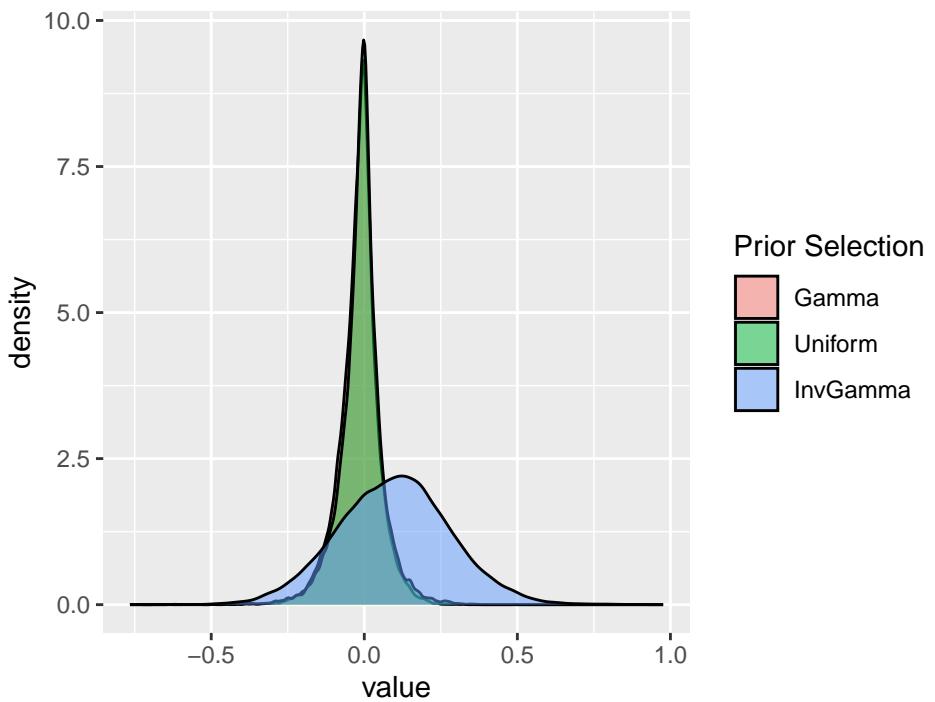
Posterior Density Plot of beta3[9]



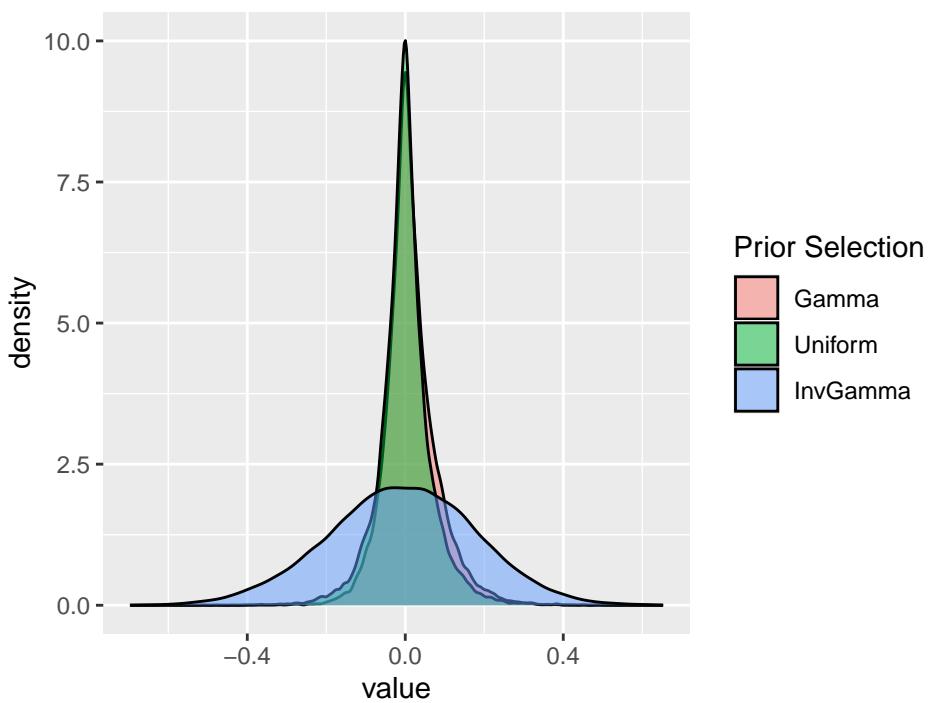
Posterior Density Plot of beta3[10]



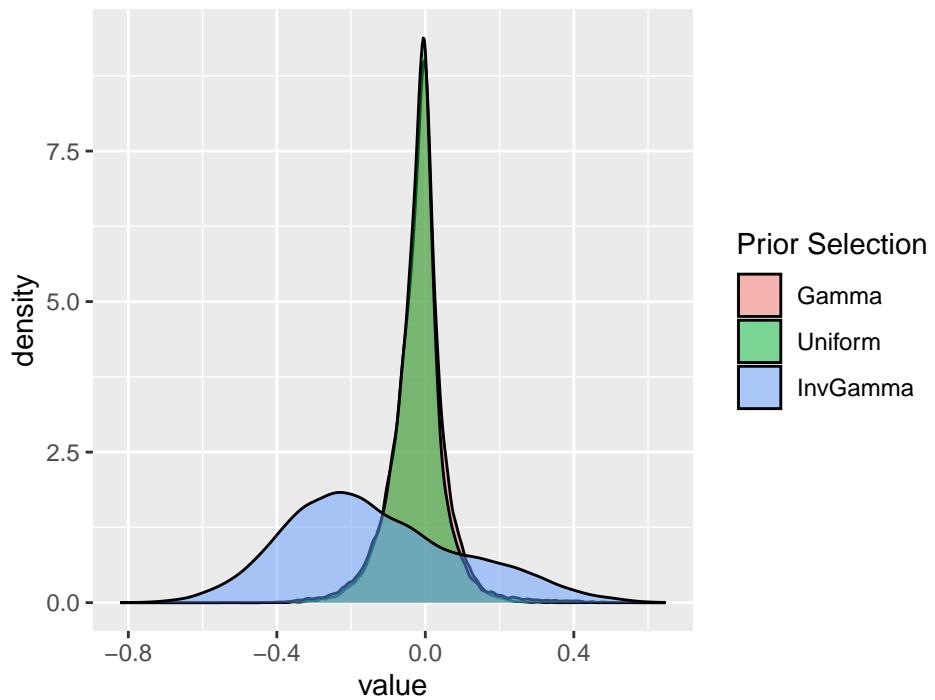
Posterior Density Plot of betal3[11]



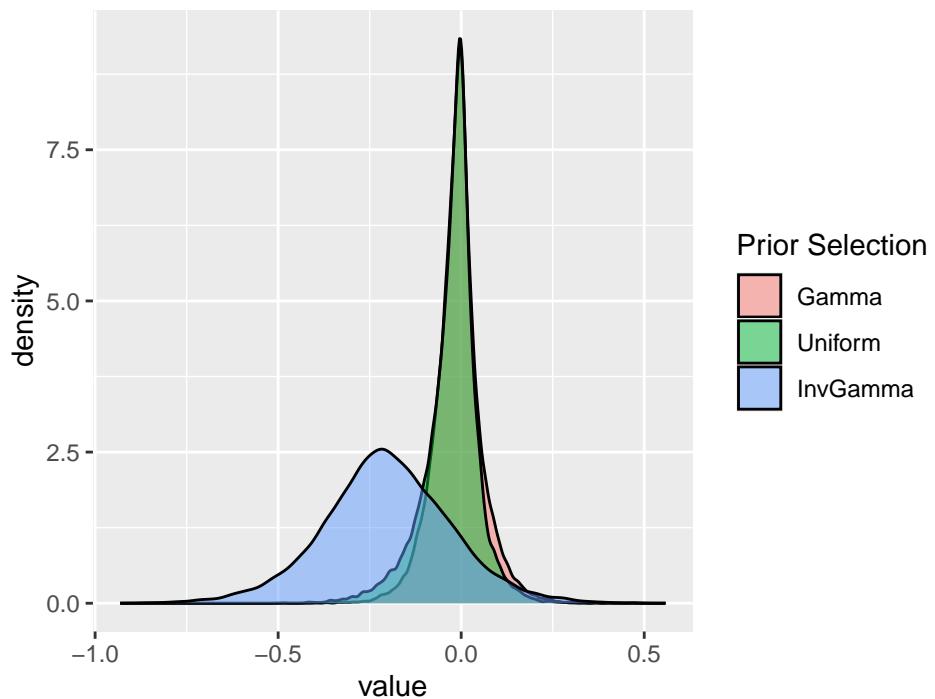
Posterior Density Plot of betal3[12]



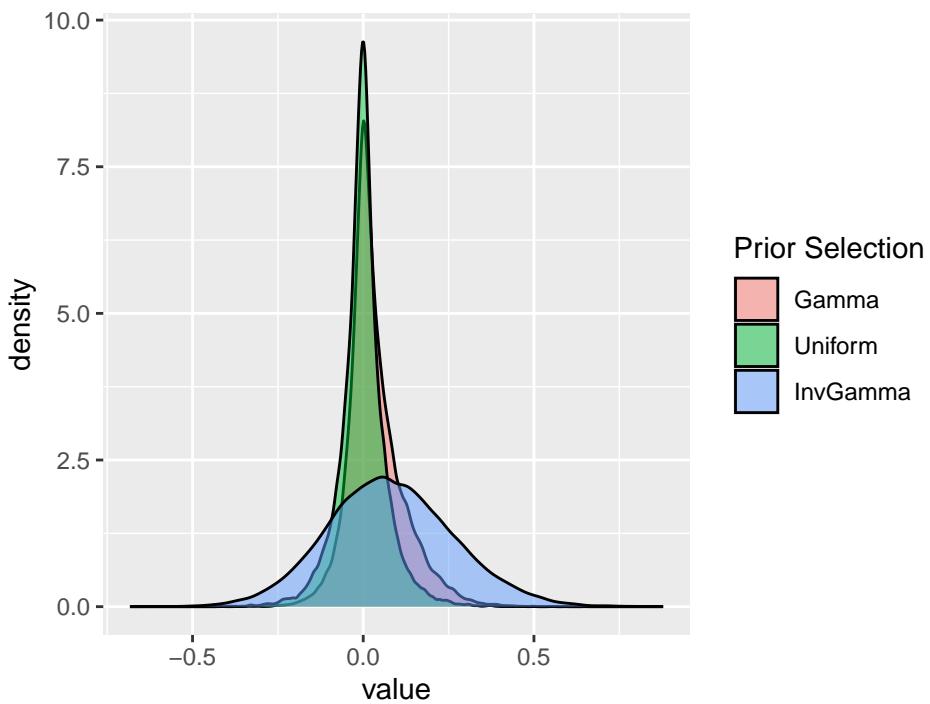
Posterior Density Plot of beta[13]



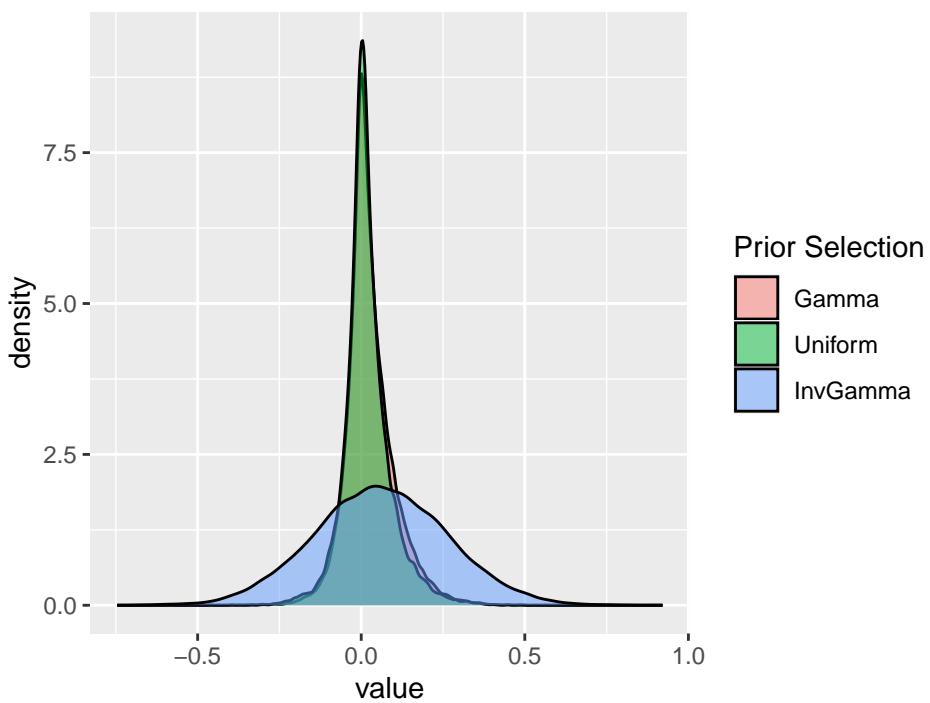
Posterior Density Plot of beta[14]



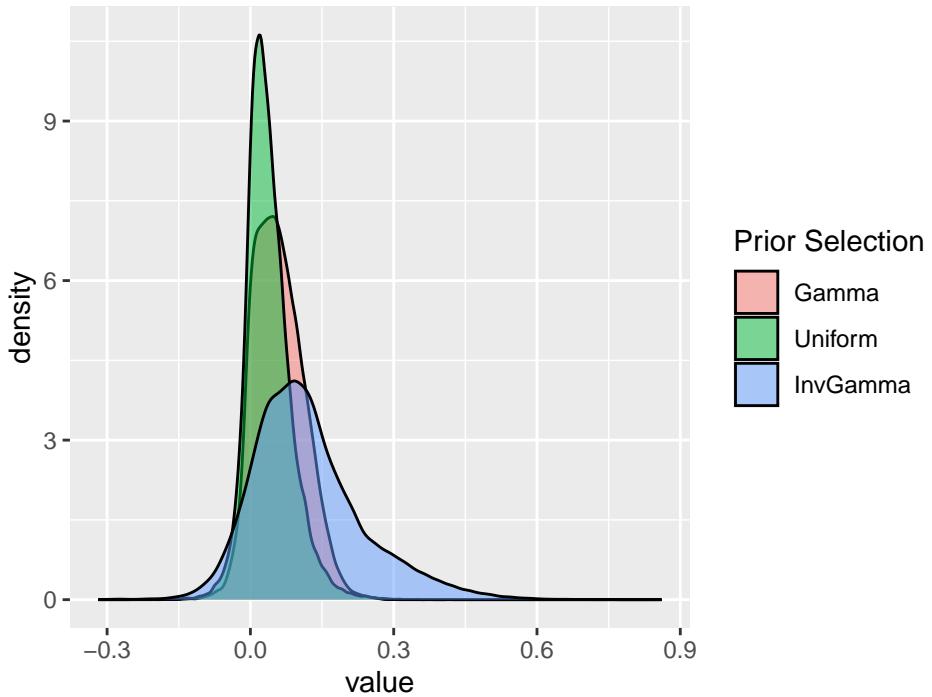
Posterior Density Plot of beta1[15]



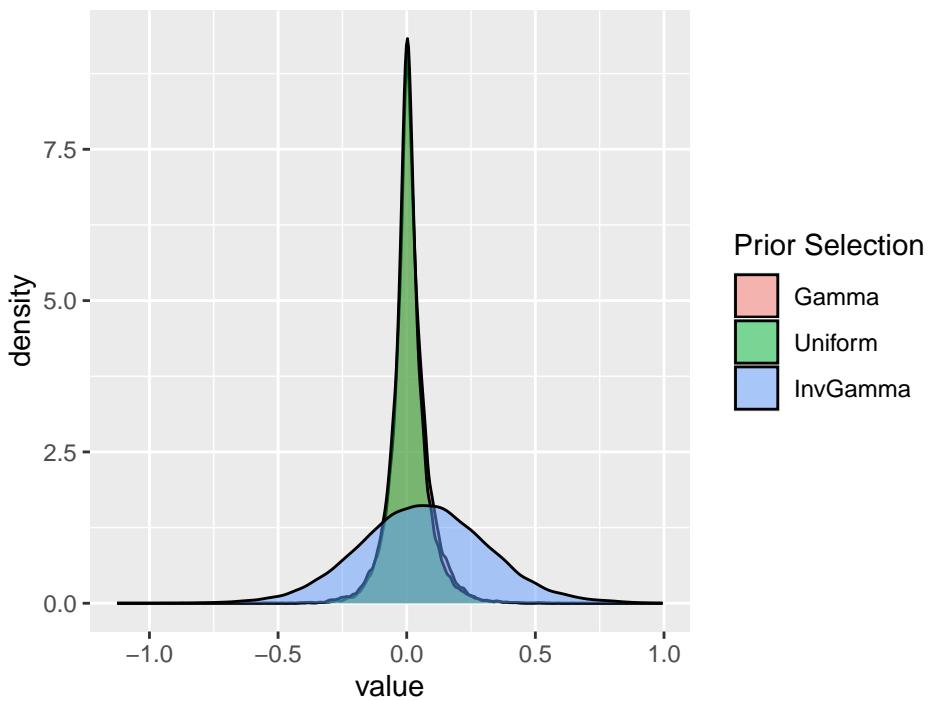
Posterior Density Plot of beta1[16]



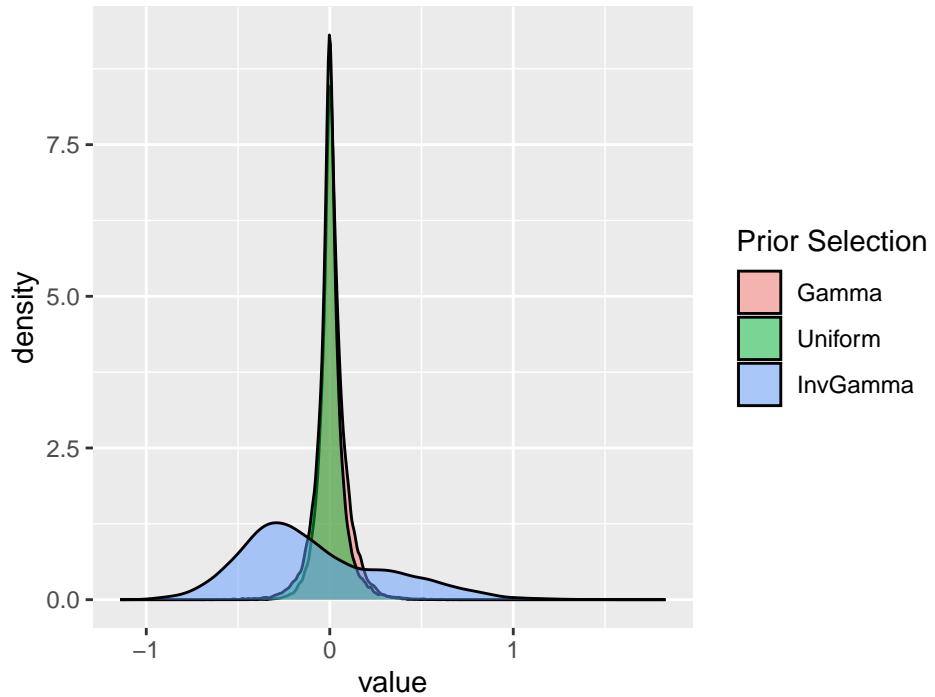
Posterior Density Plot of beta13[17]



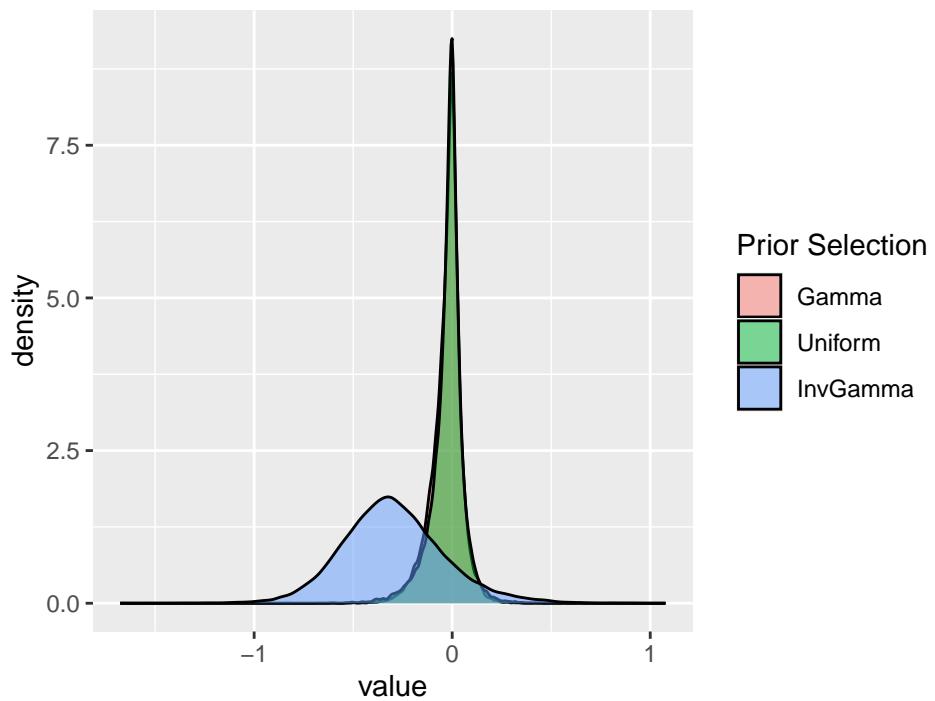
Posterior Density Plot of beta13[18]



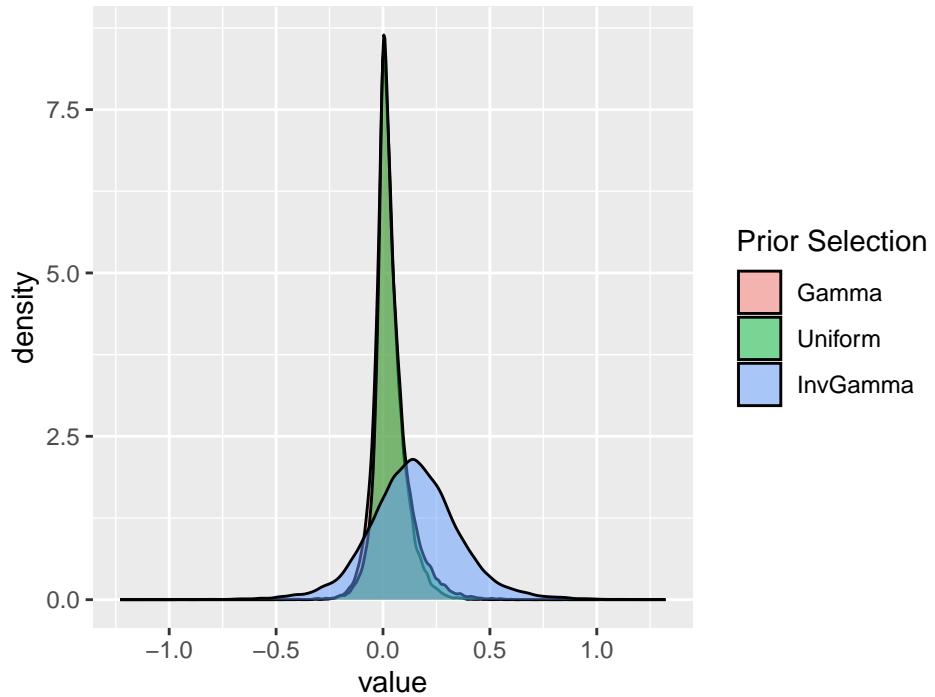
Posterior Density Plot of beta[19]



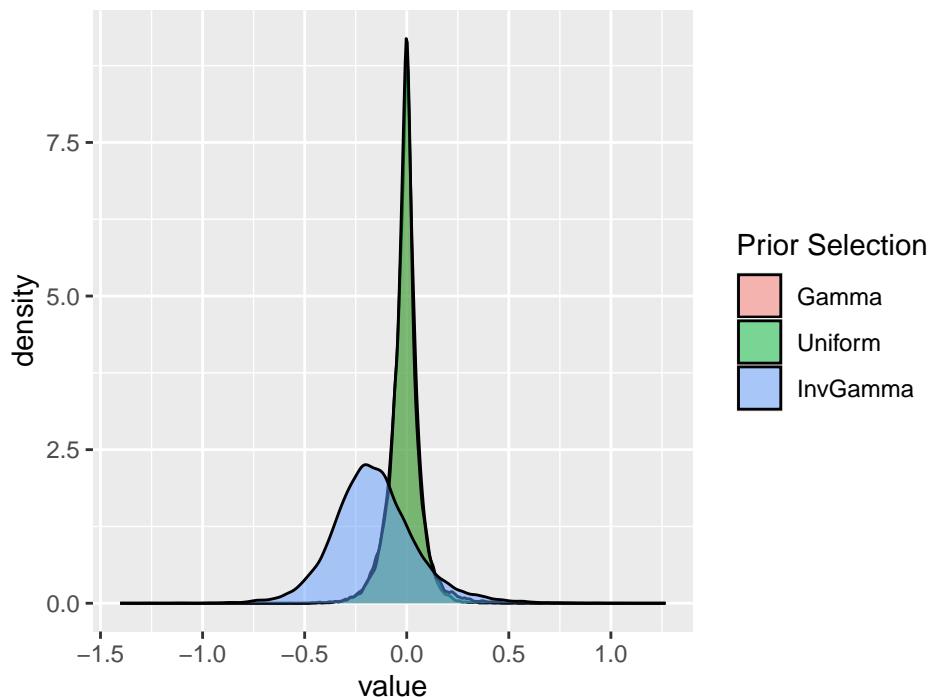
Posterior Density Plot of beta[20]



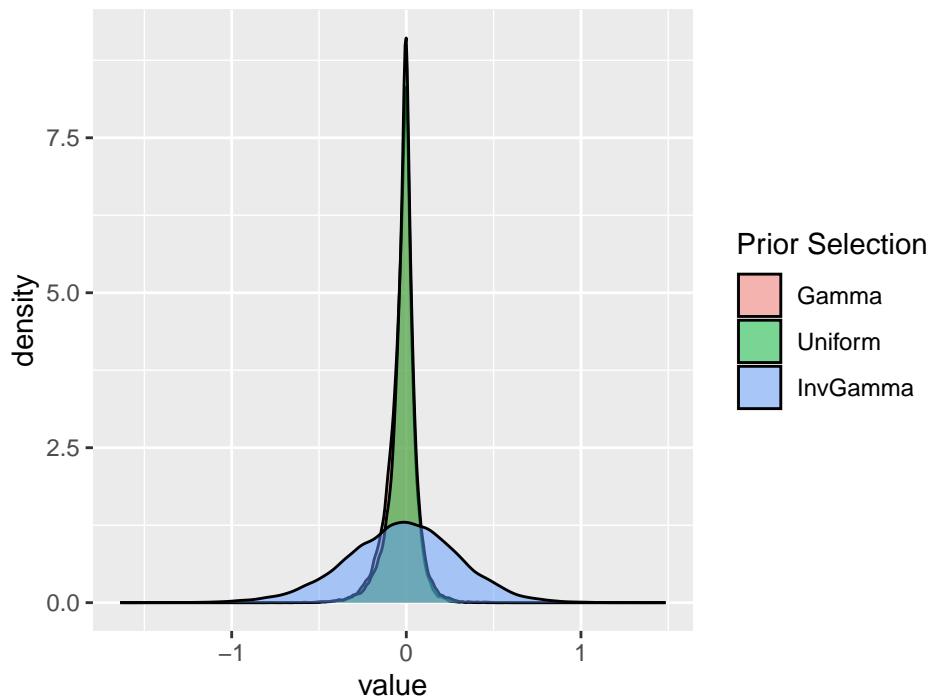
Posterior Density Plot of beta3[21]



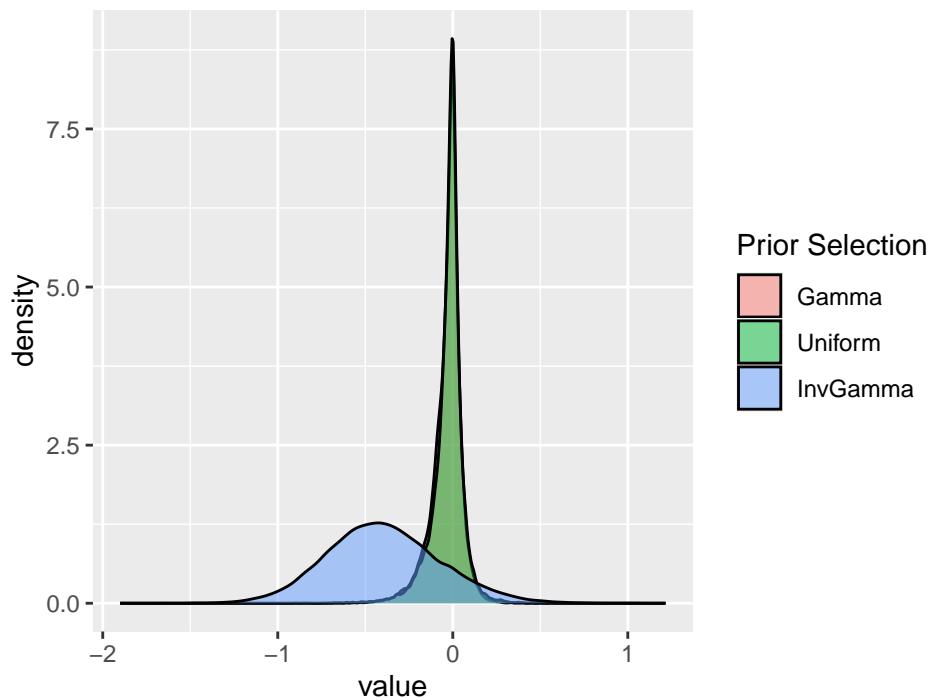
Posterior Density Plot of beta3[22]



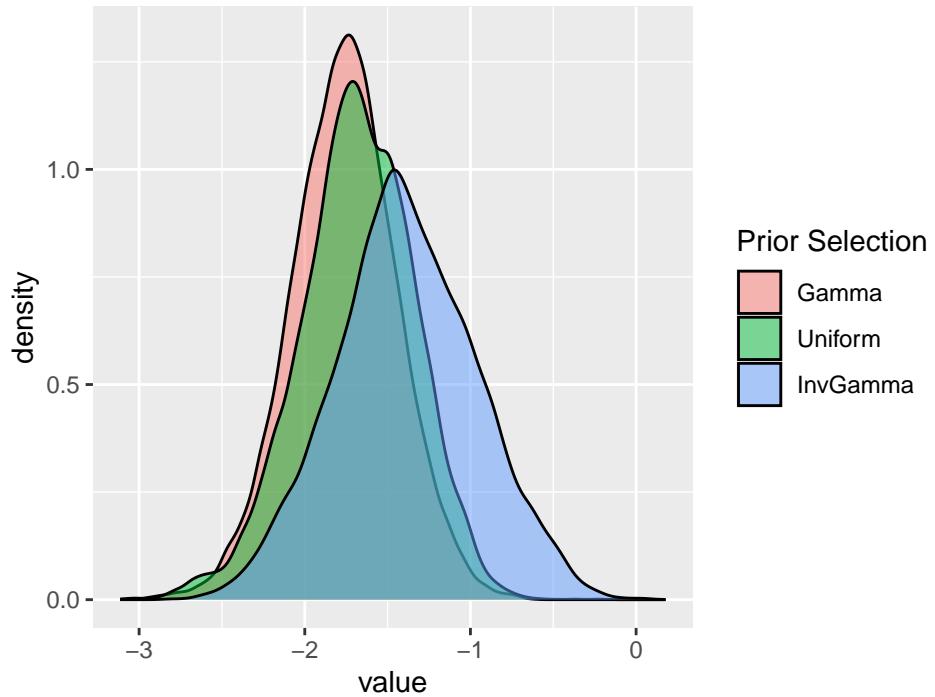
Posterior Density Plot of beta1[23]



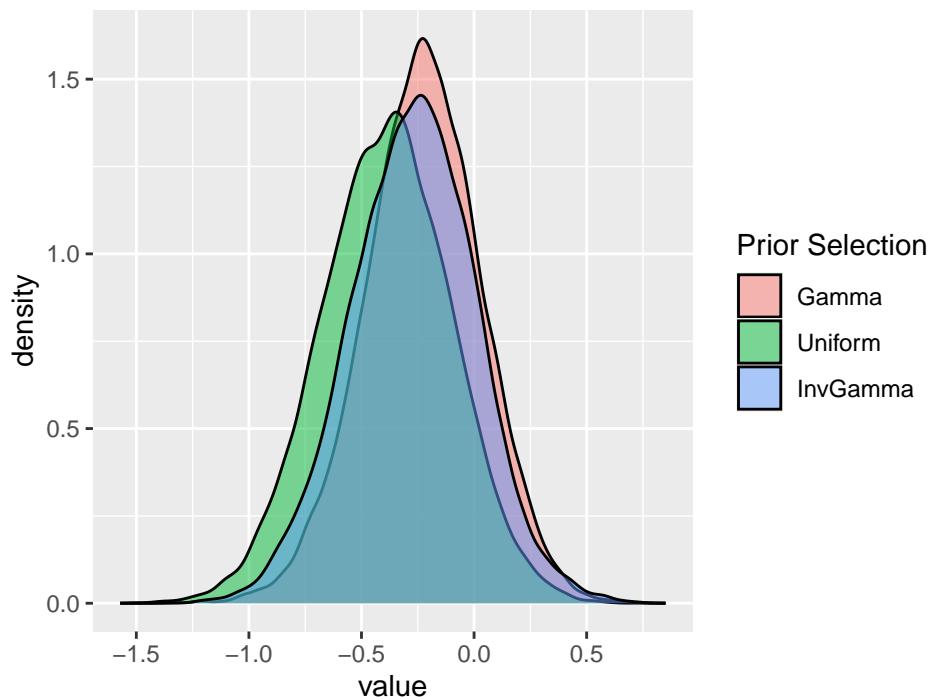
Posterior Density Plot of beta1[24]



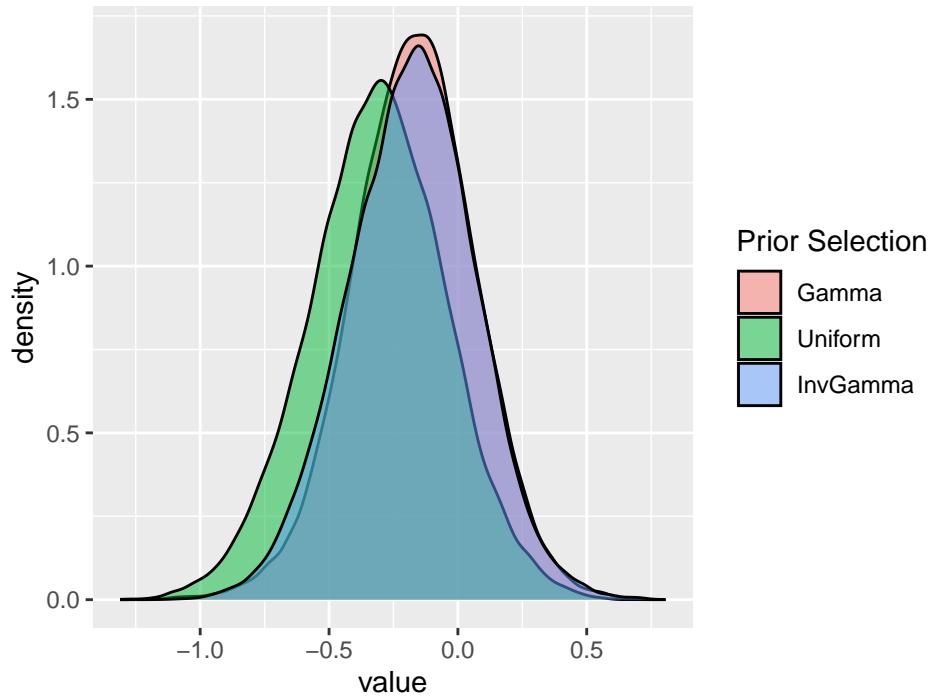
Posterior Density Plot of  $\alpha_{1[1]}$



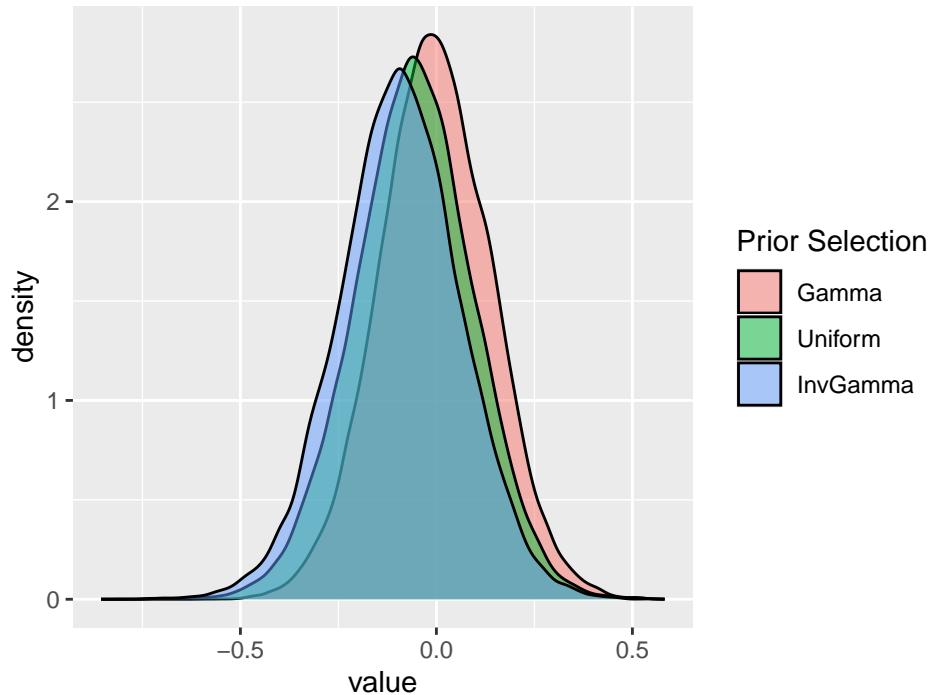
Posterior Density Plot of  $\alpha_{1[2]}$



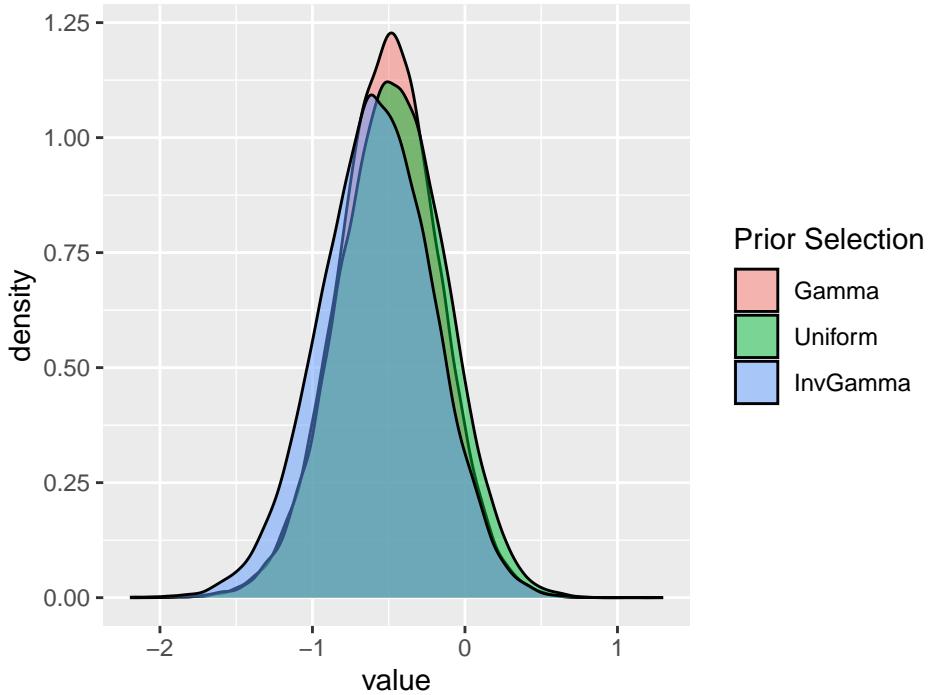
Posterior Density Plot of alpha1[3]



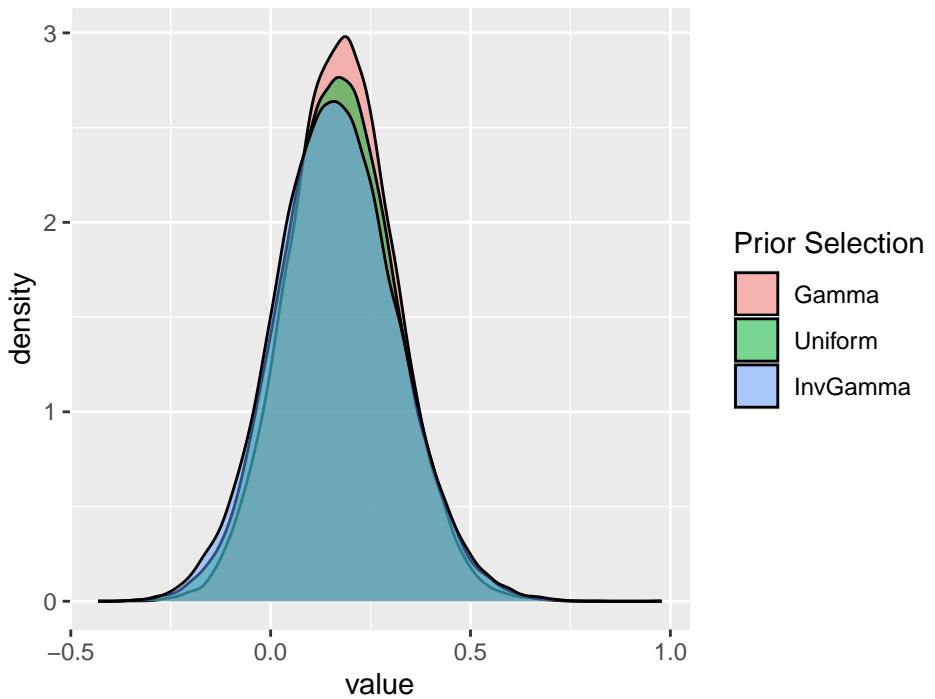
Posterior Density Plot of alpha1[4]



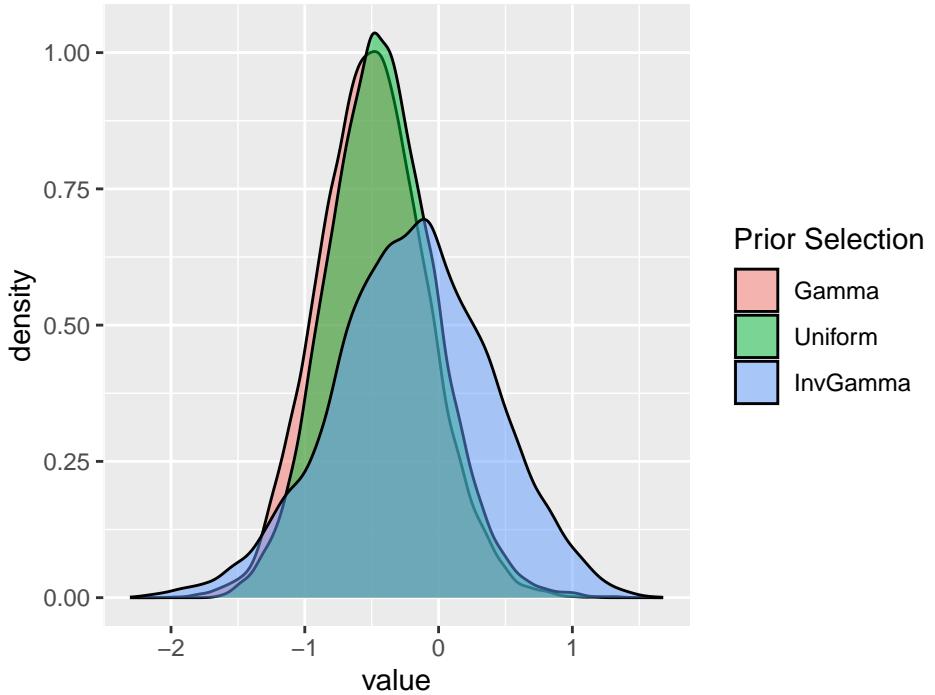
Posterior Density Plot of alpha1[5]



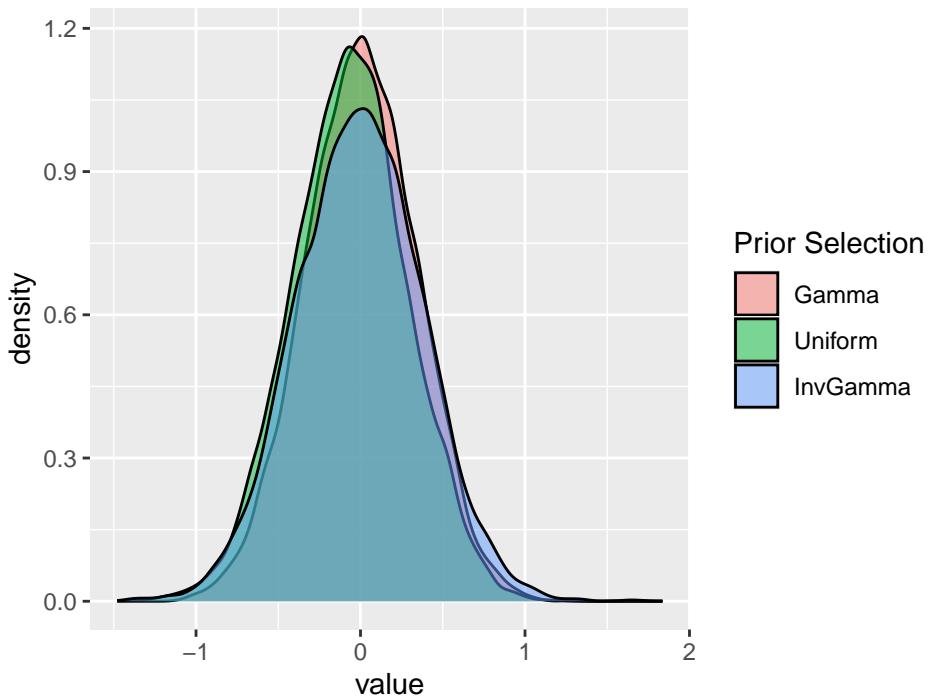
Posterior Density Plot of alpha1[6]



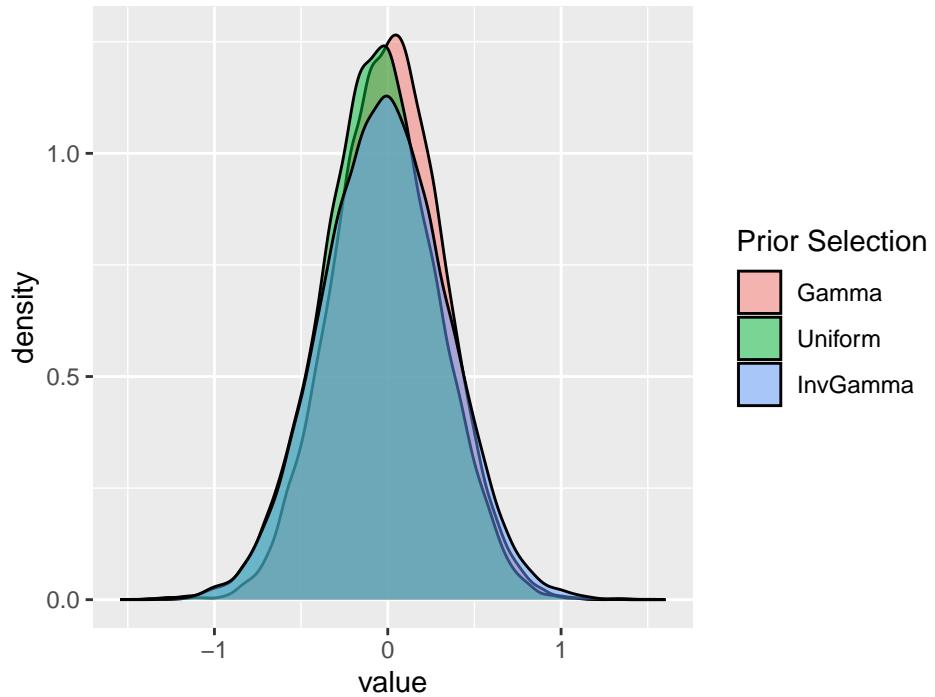
Posterior Density Plot of alpha2[1]



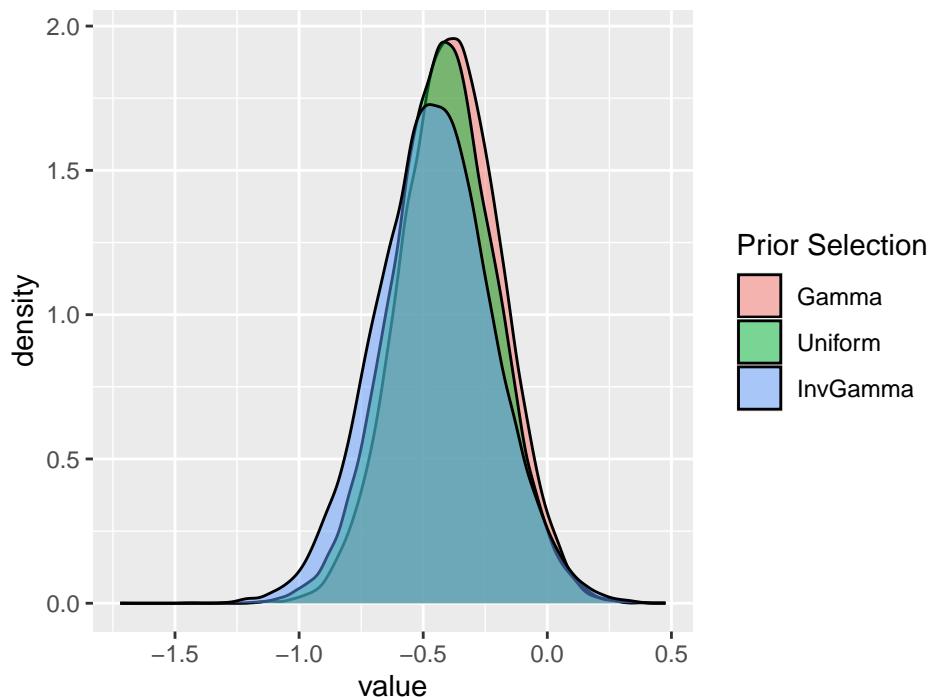
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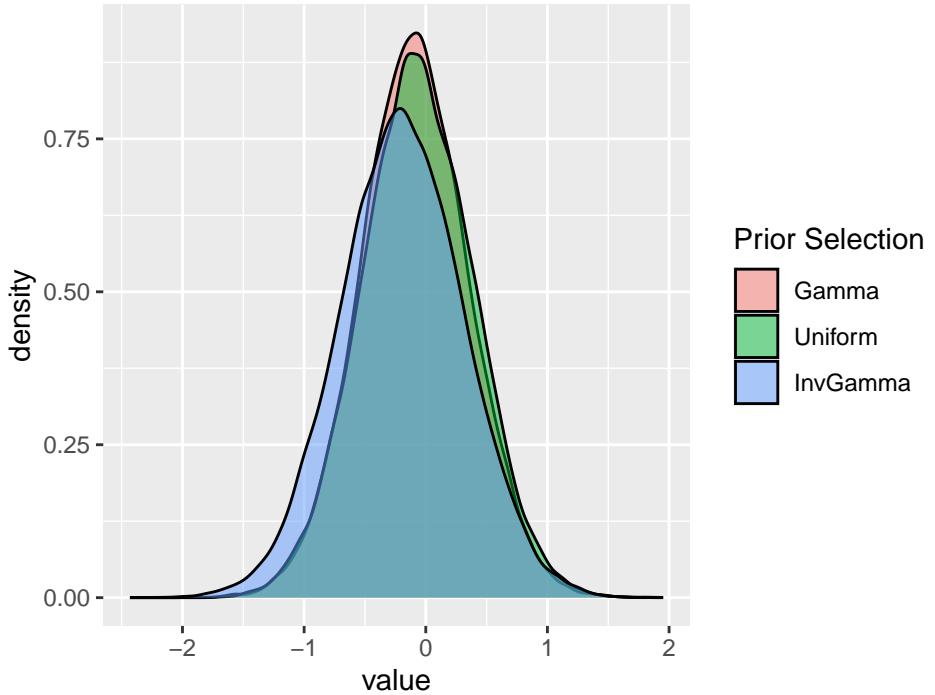
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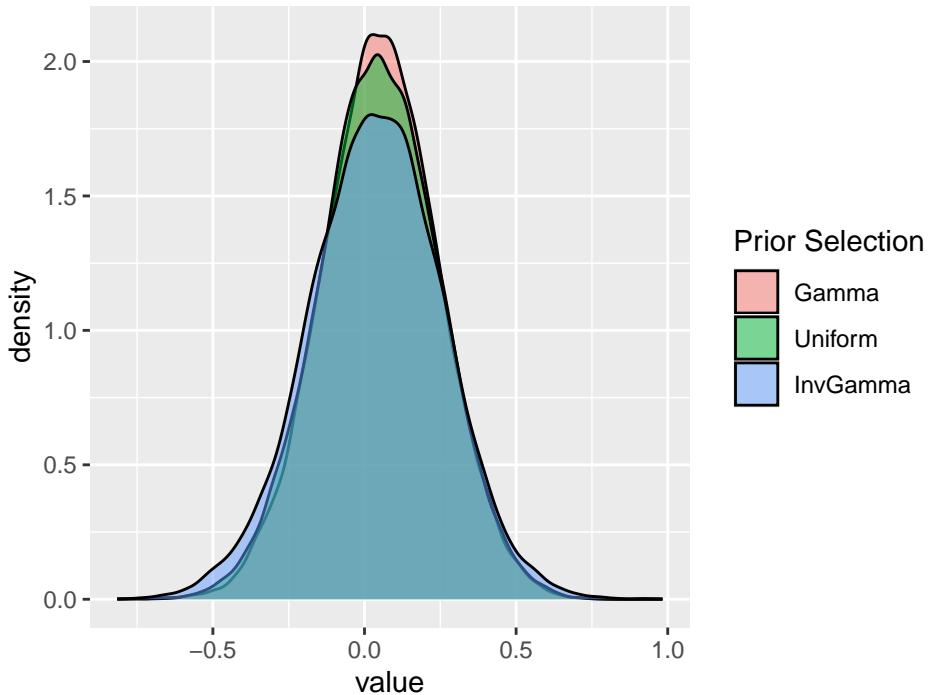
Posterior Density Plot of alpha1[4]



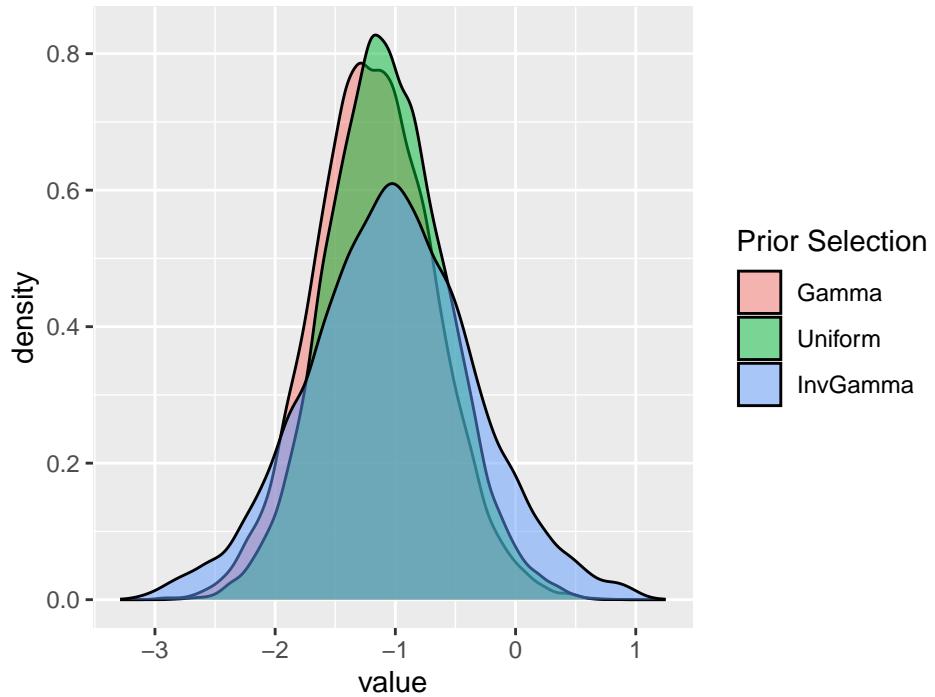
Posterior Density Plot of alpha2[5]



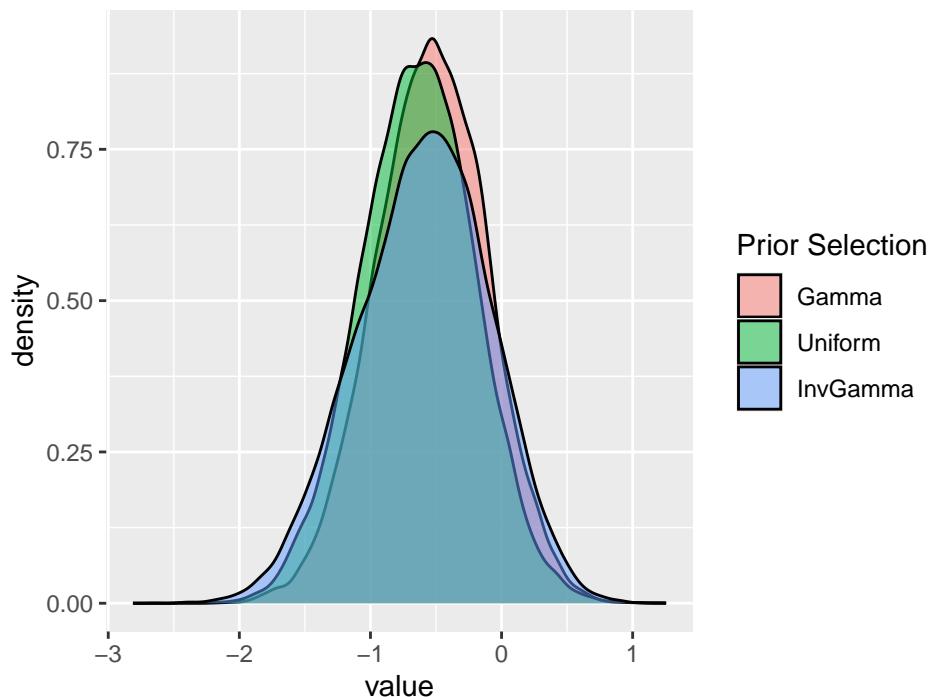
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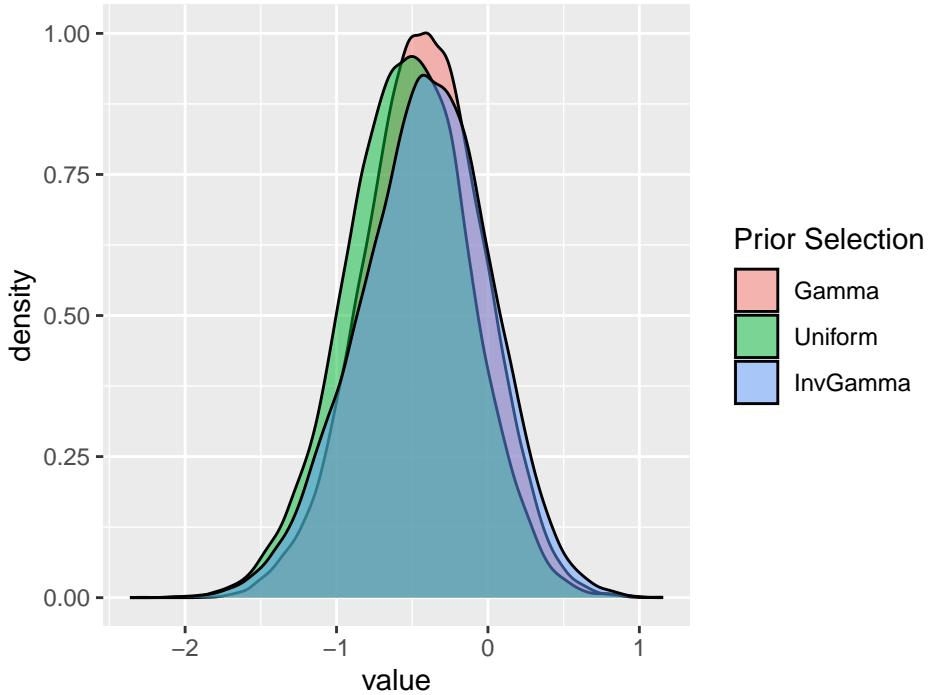
Posterior Density Plot of alpha3[1]



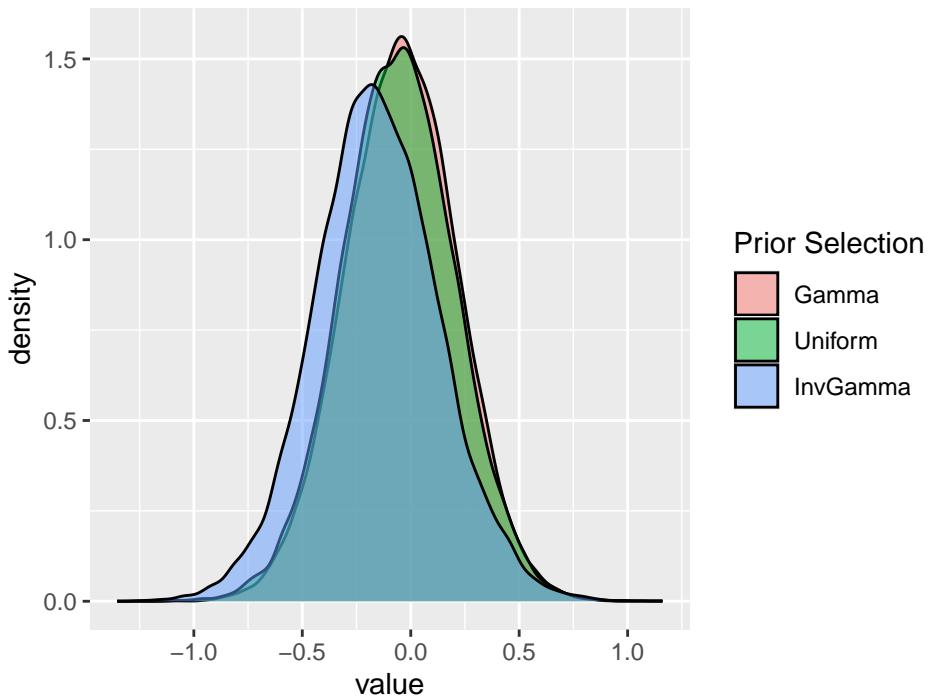
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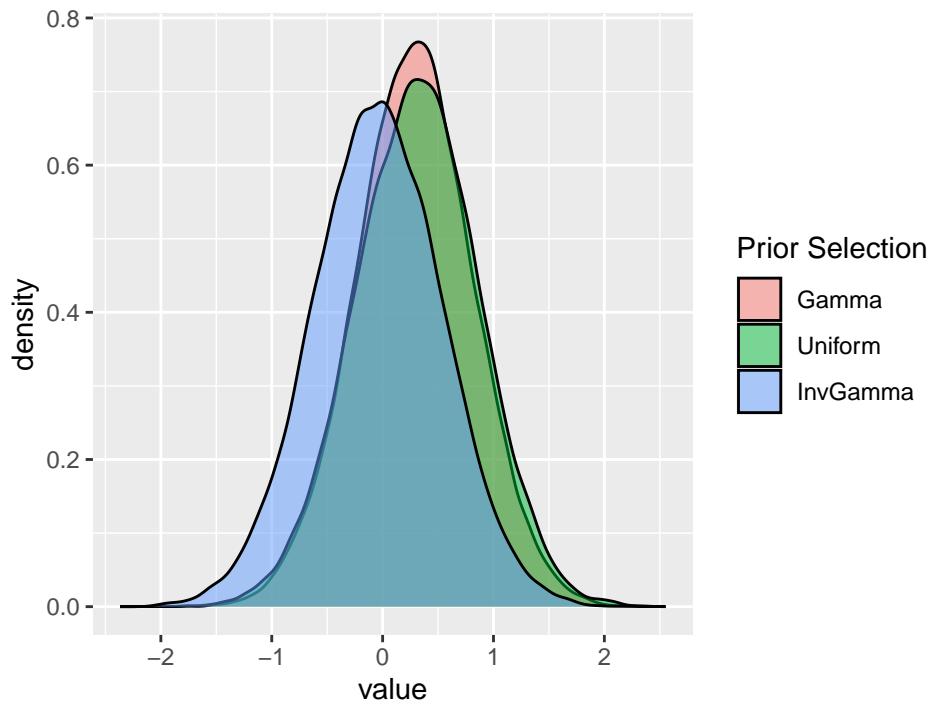
Posterior Density Plot of alpha3[3]



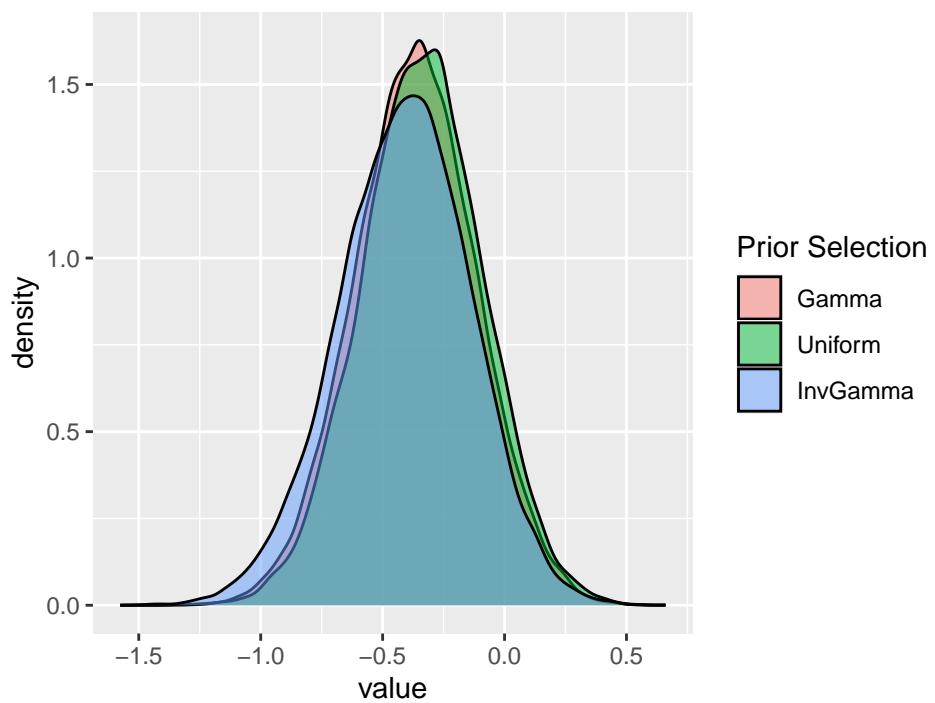
Posterior Density Plot of alpha3[4]



Posterior Density Plot of alpha13[5]

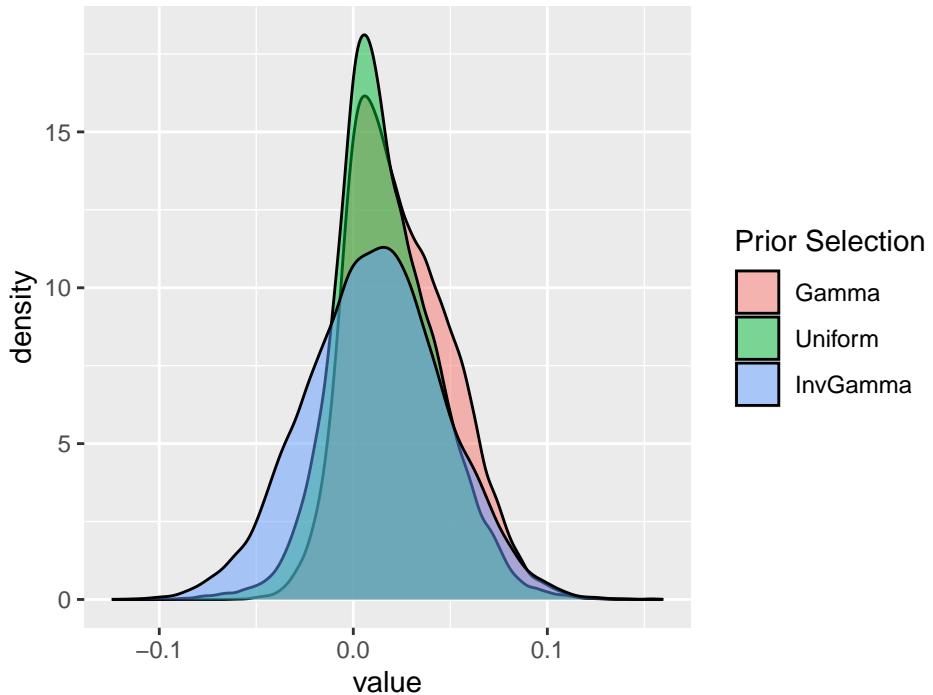


Posterior Density Plot of alpha13[6]

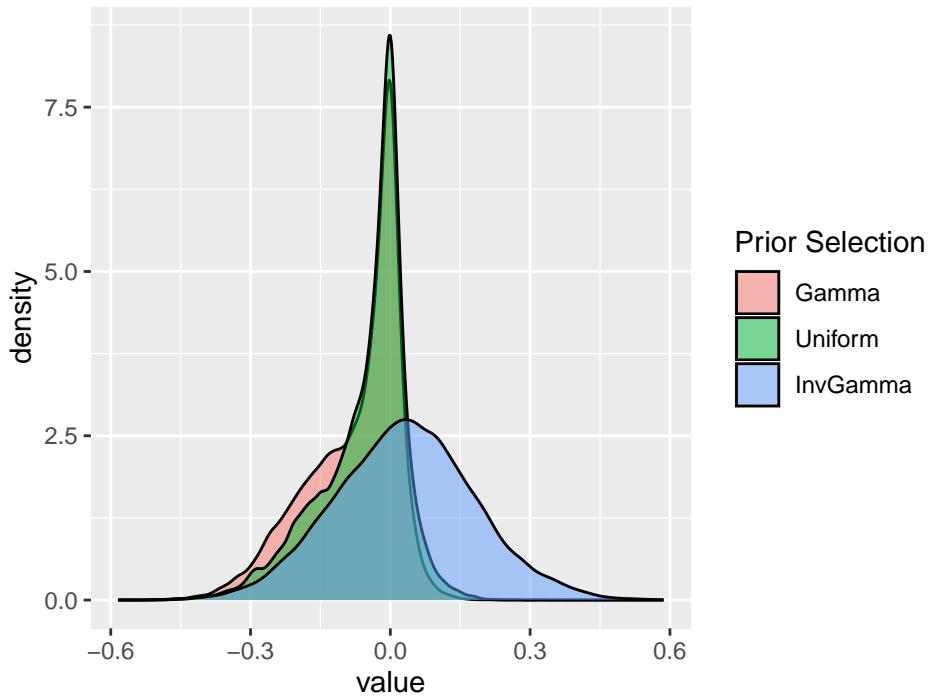


## Regulatory Responses (R1, R2, R3)

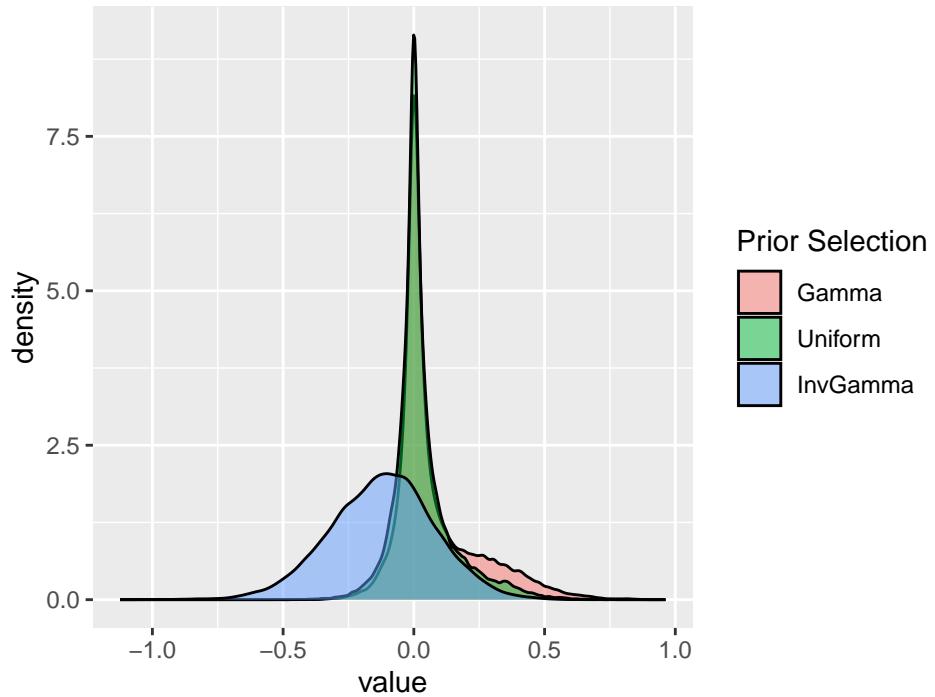
Posterior Density Plot of betaR1[1]



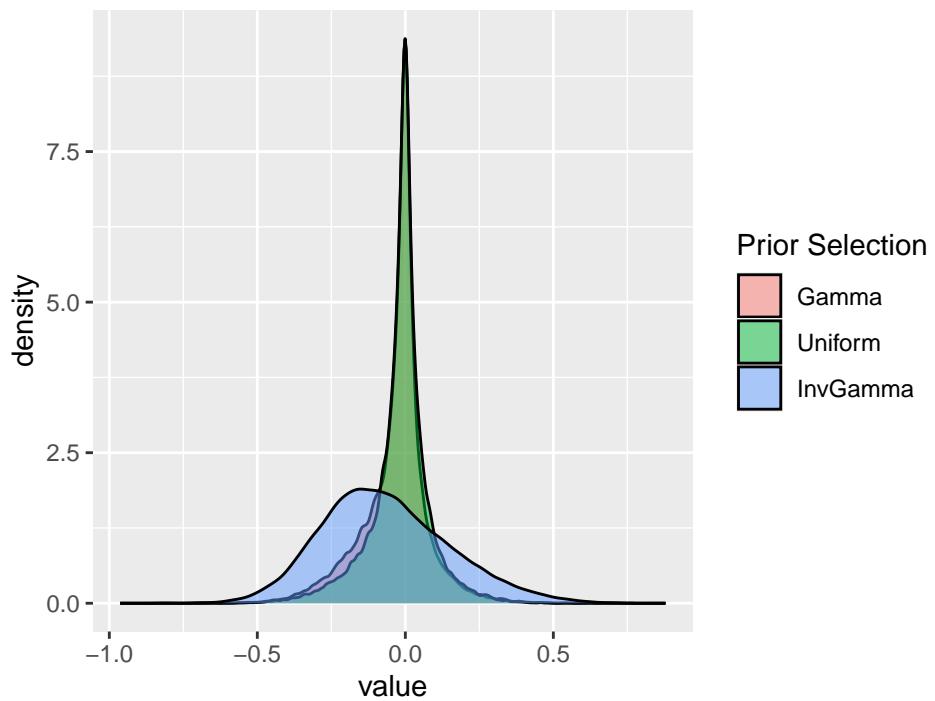
Posterior Density Plot of betaR1[2]



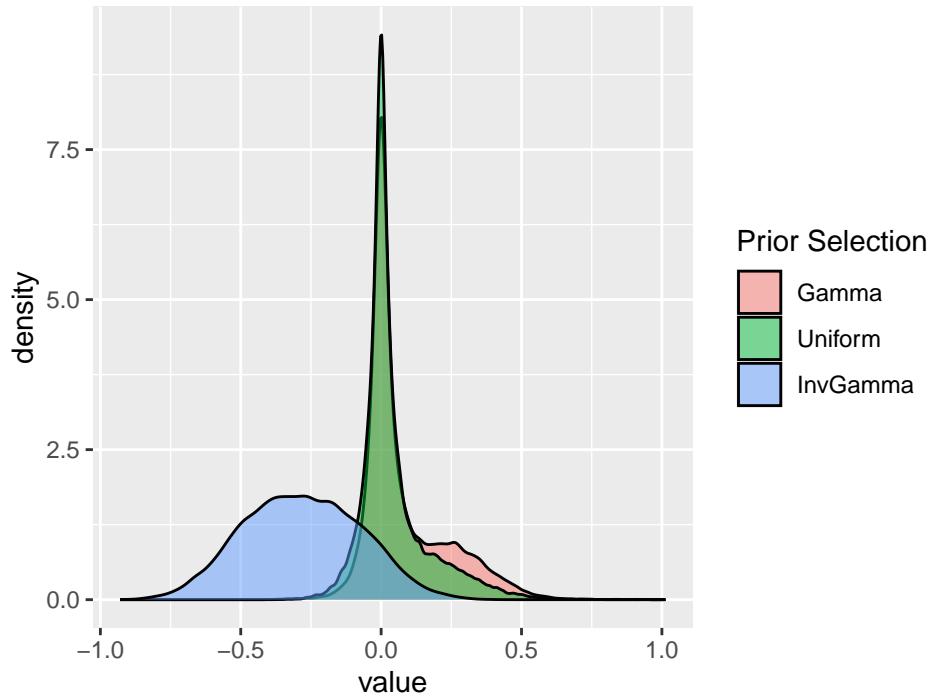
Posterior Density Plot of betaR1[3]



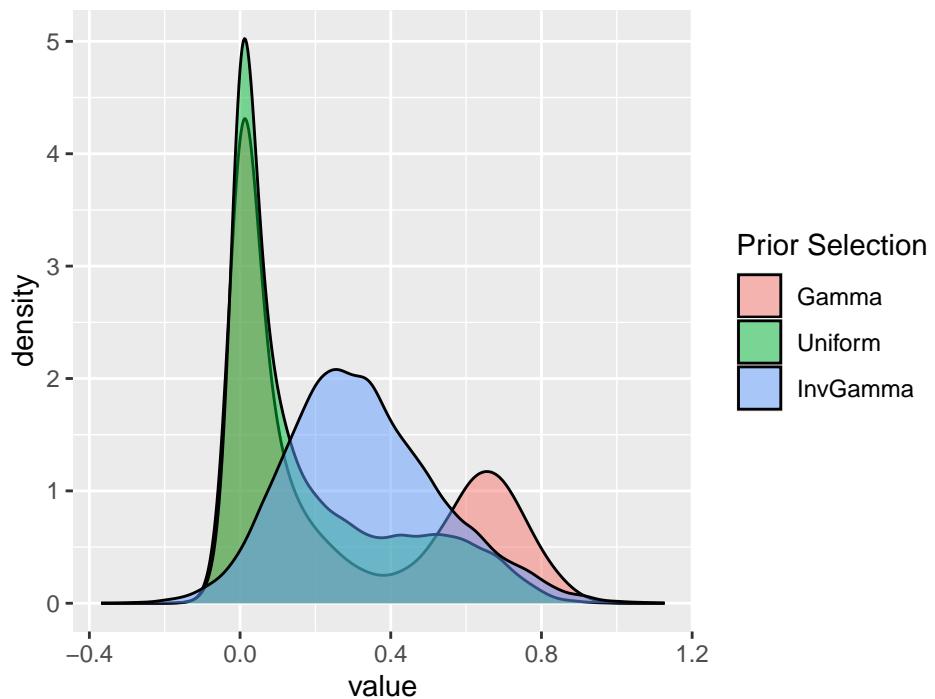
Posterior Density Plot of betaR1[4]



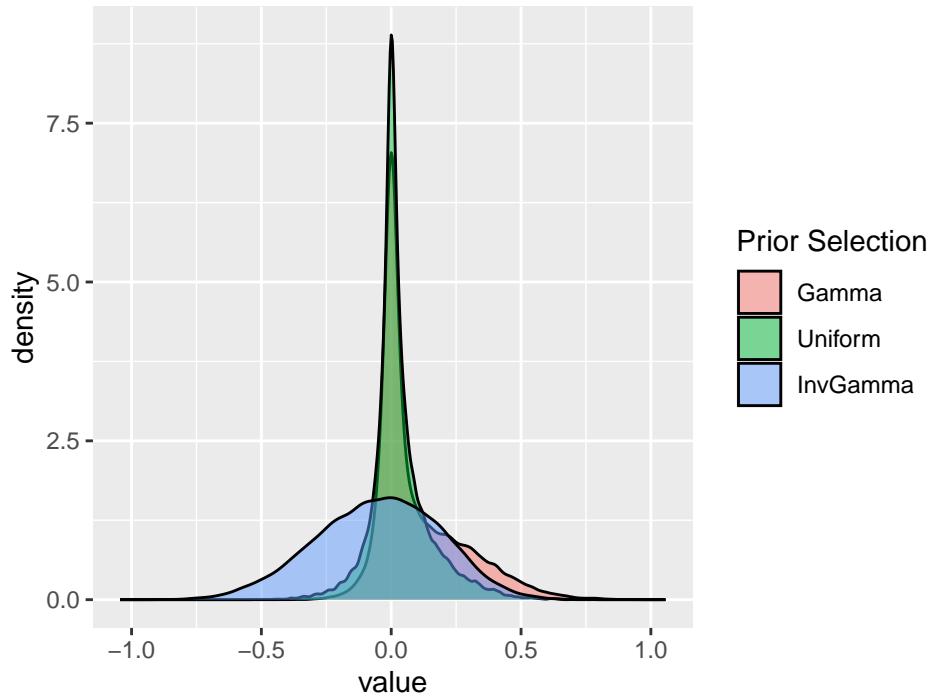
Posterior Density Plot of betaR1[5]



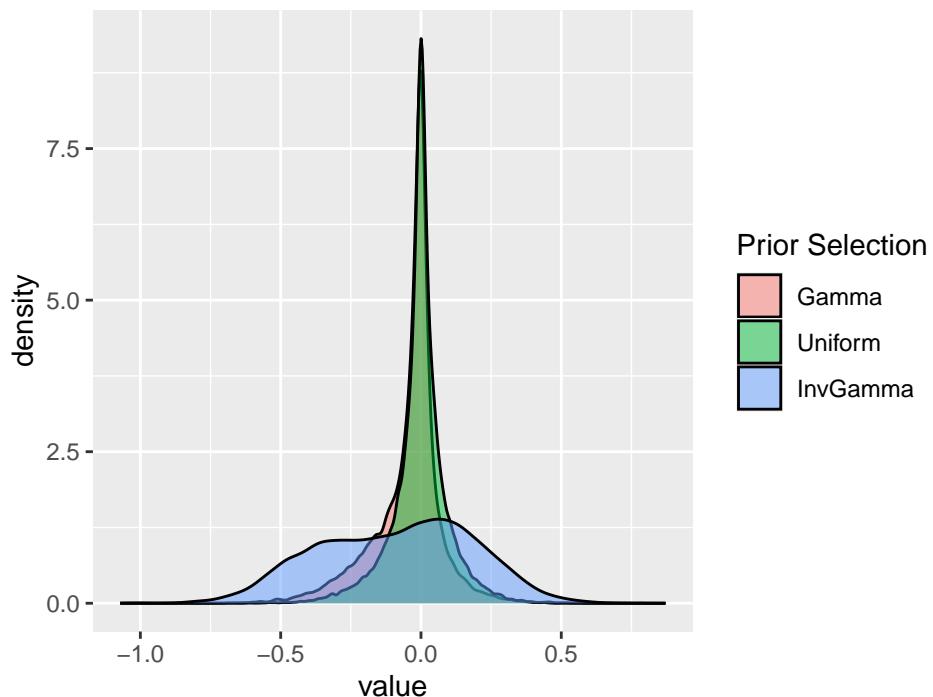
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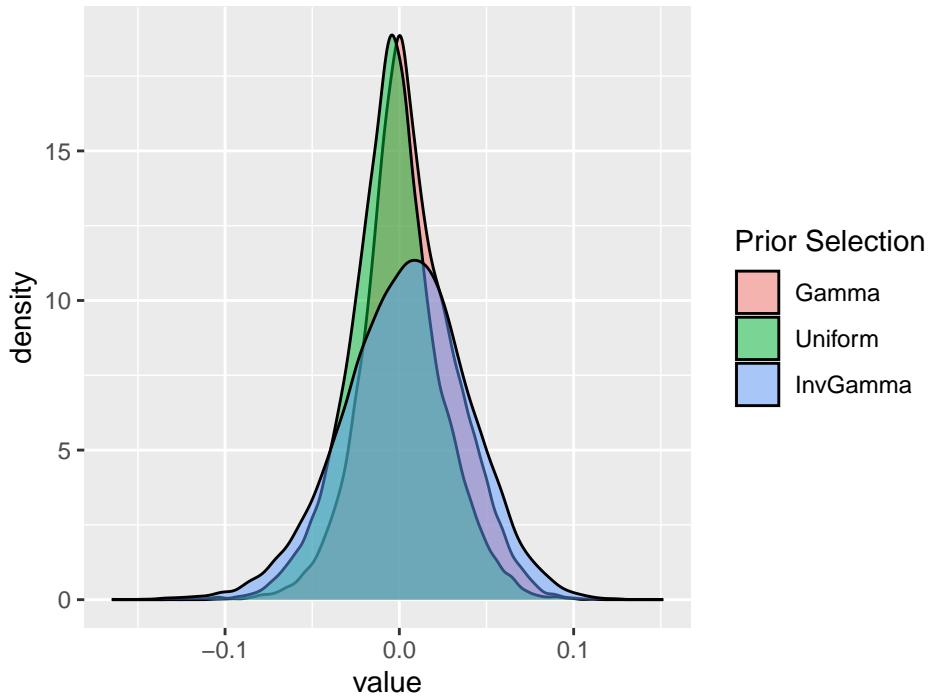
Posterior Density Plot of betaR1[7]



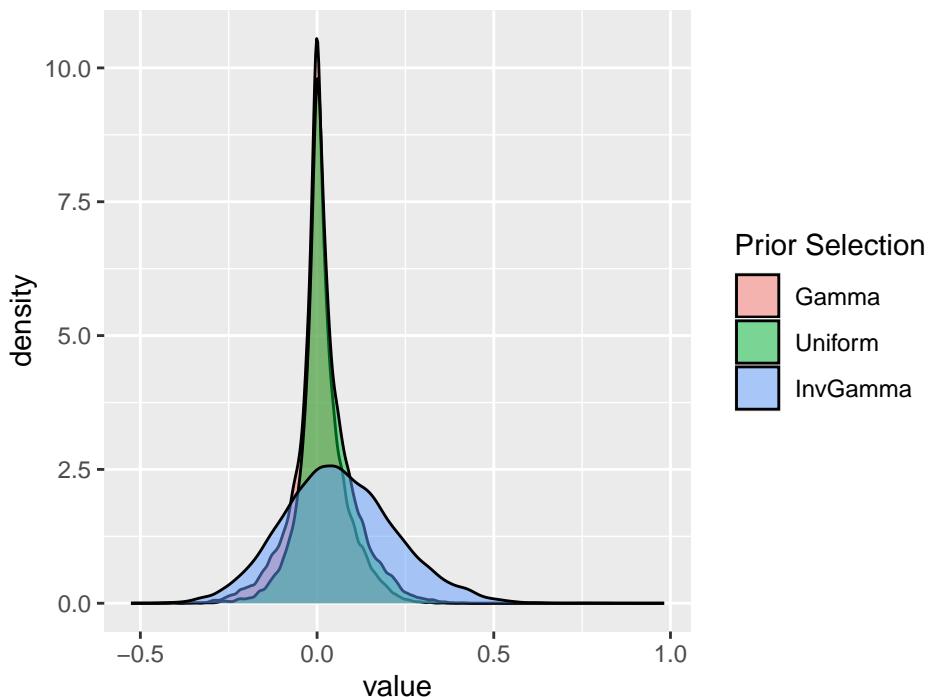
Posterior Density Plot of betaR1[8]



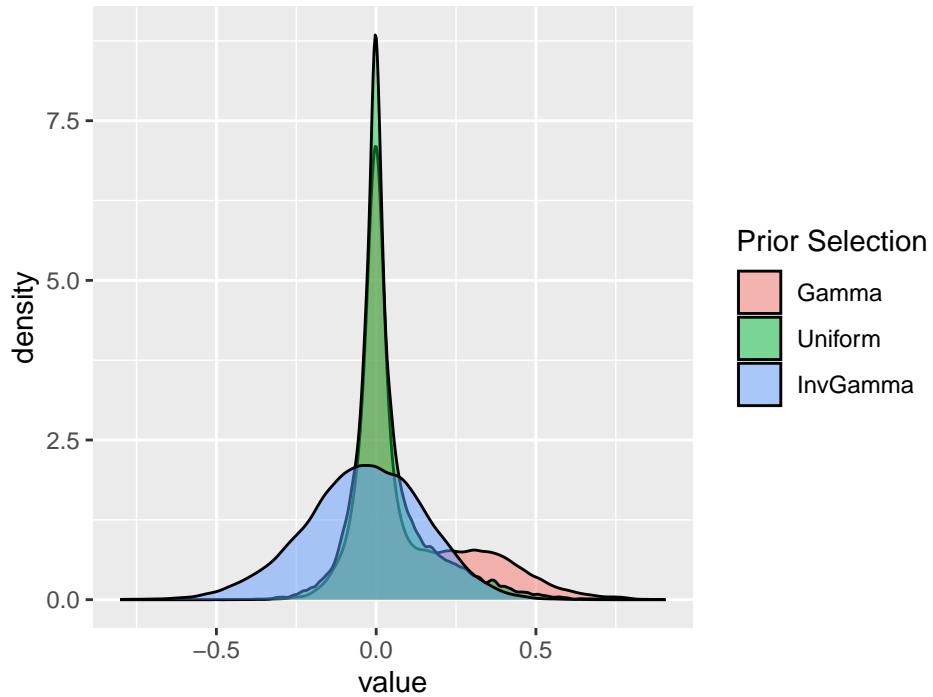
Posterior Density Plot of betaR1[9]



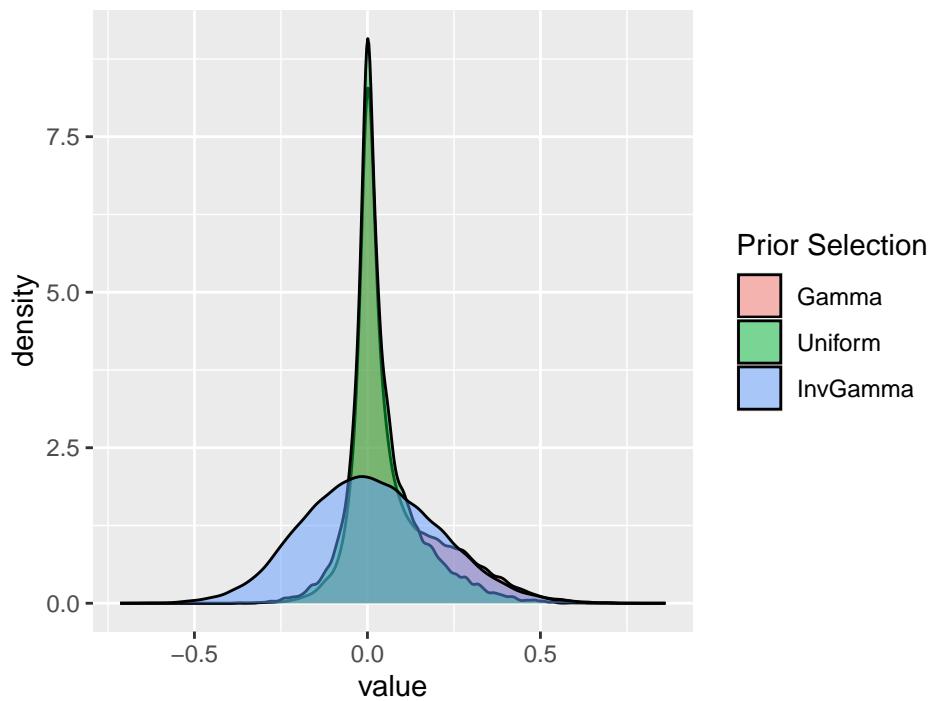
Posterior Density Plot of betaR1[10]



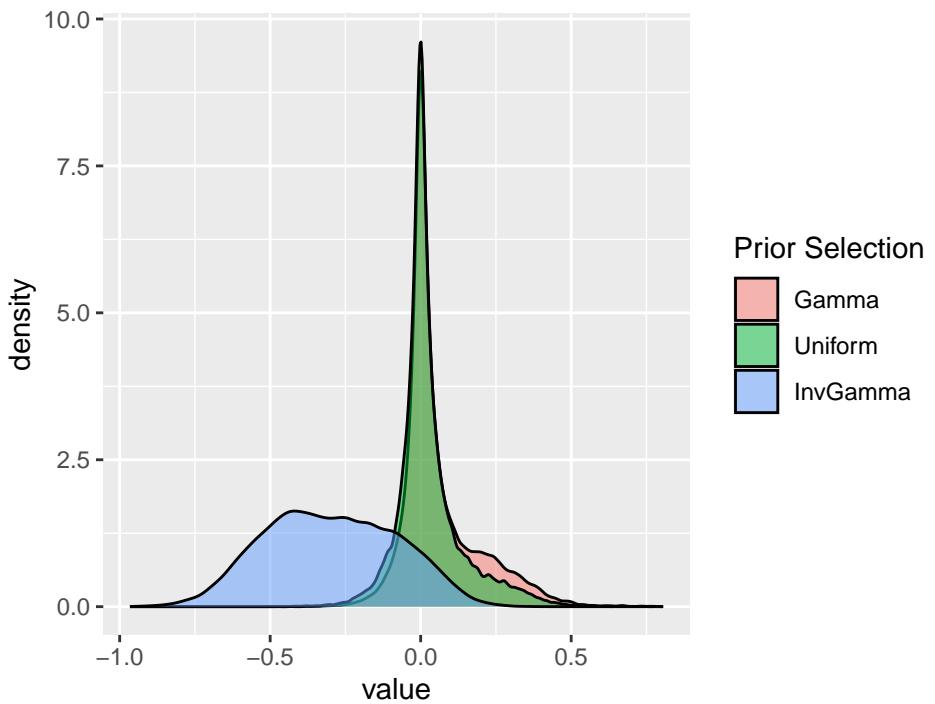
Posterior Density Plot of betaR1[11]



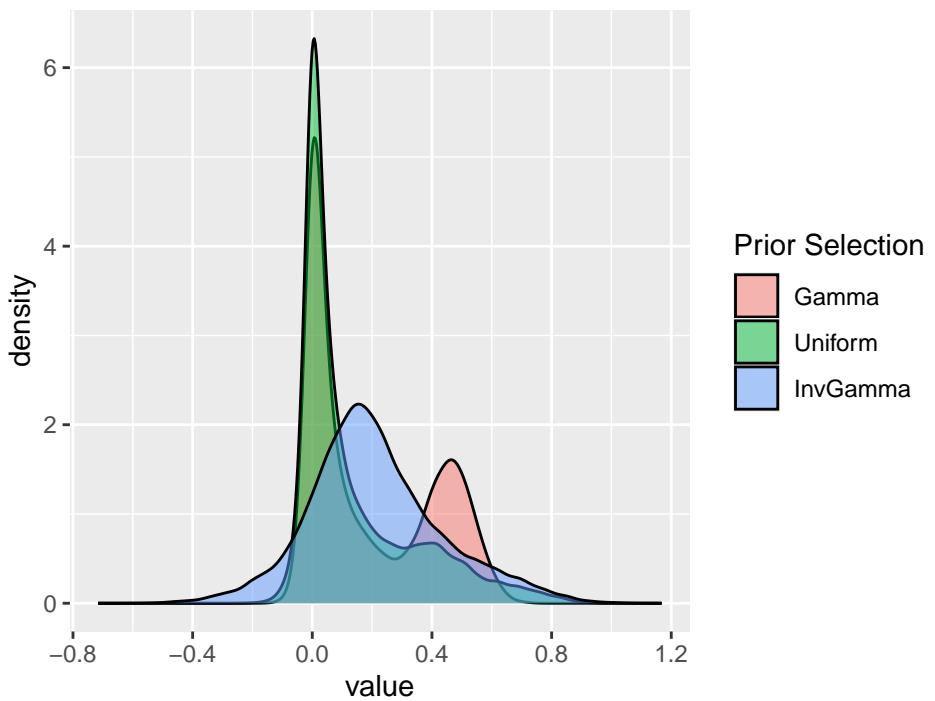
Posterior Density Plot of betaR1[12]



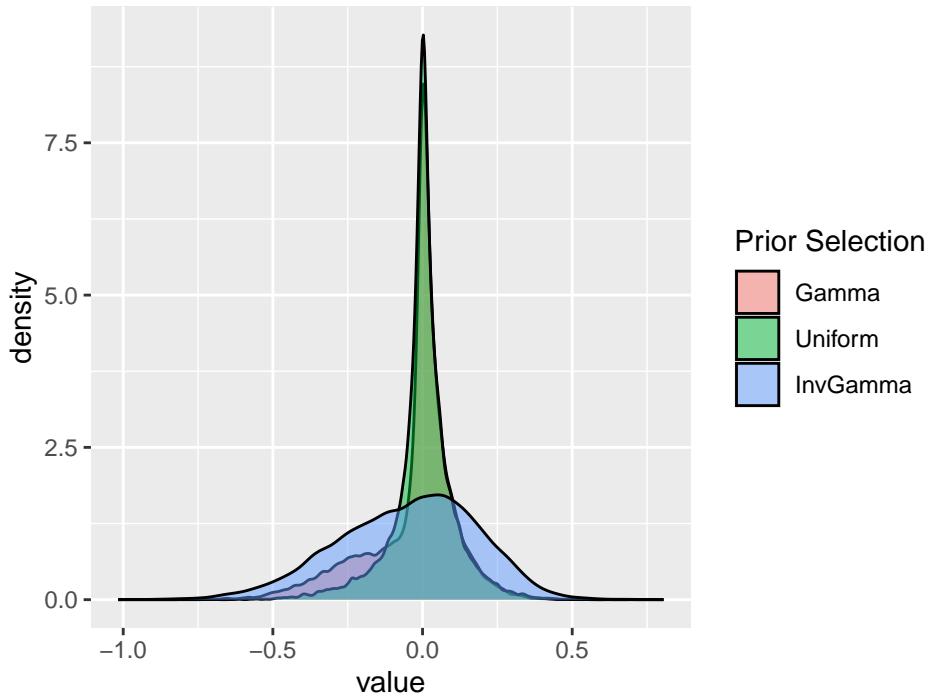
Posterior Density Plot of betaR1[13]



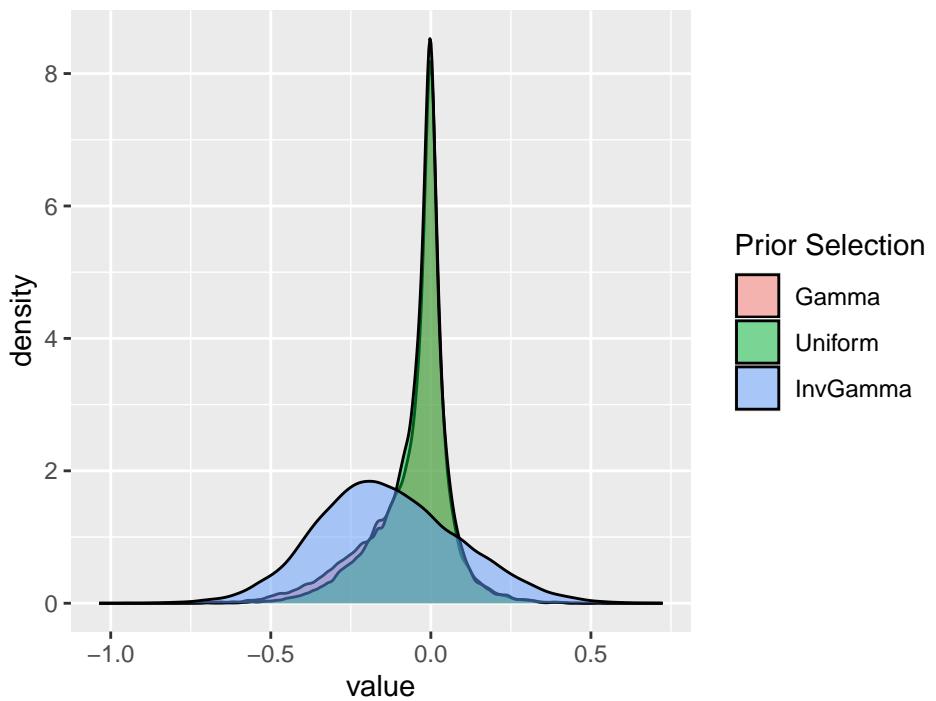
Posterior Density Plot of betaR1[14]



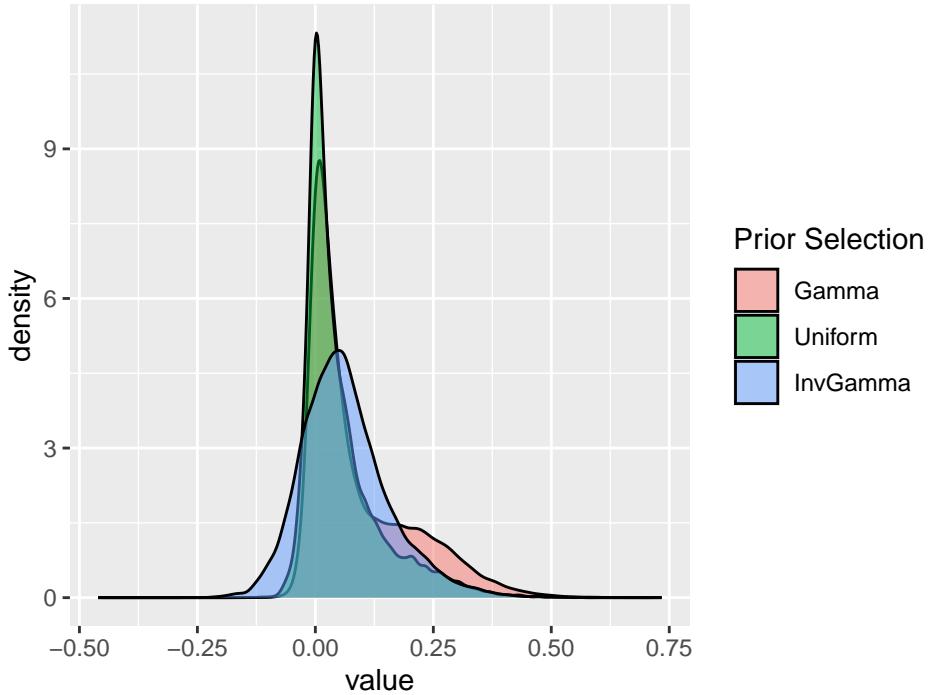
Posterior Density Plot of betaR1[15]



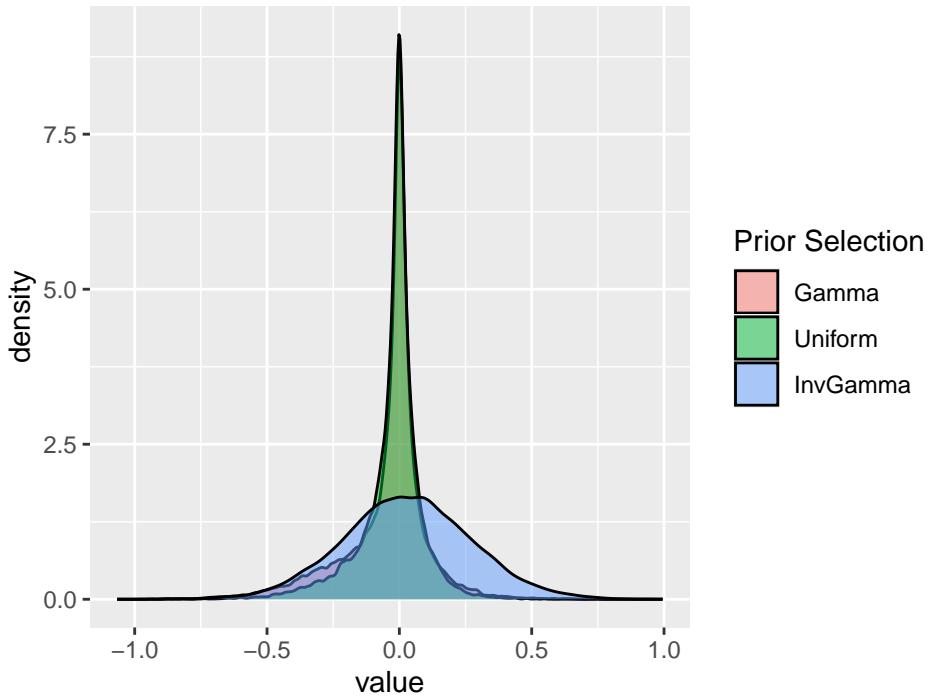
Posterior Density Plot of betaR1[16]



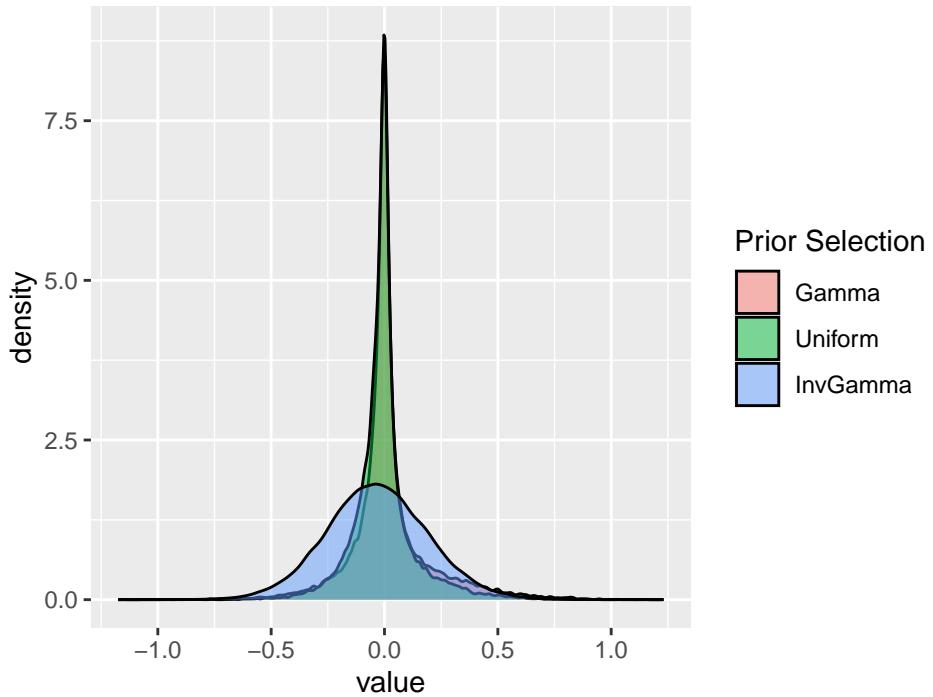
Posterior Density Plot of betaR1[17]



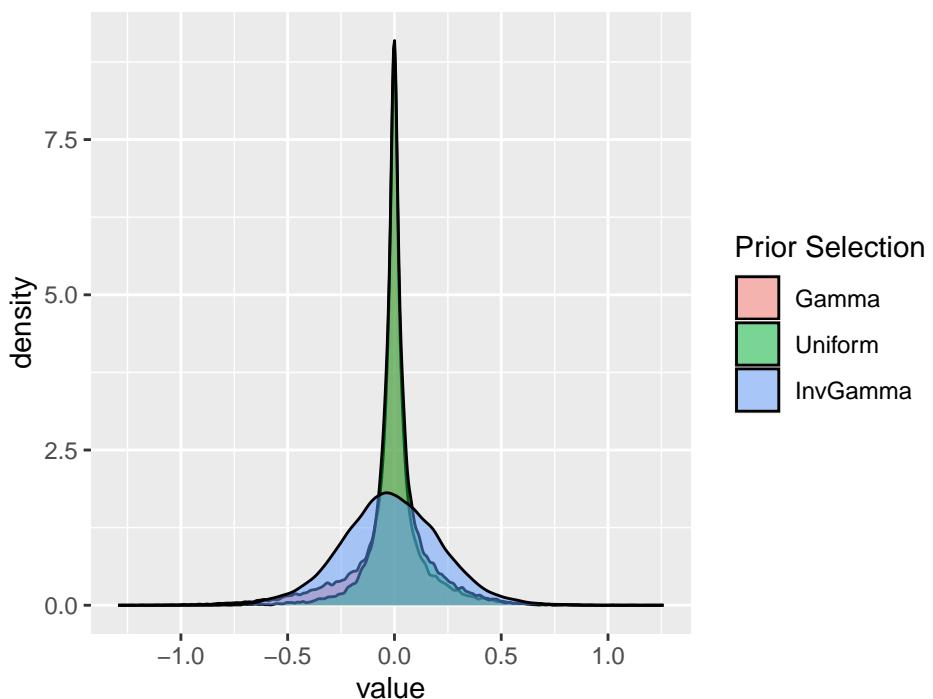
Posterior Density Plot of betaR1[18]



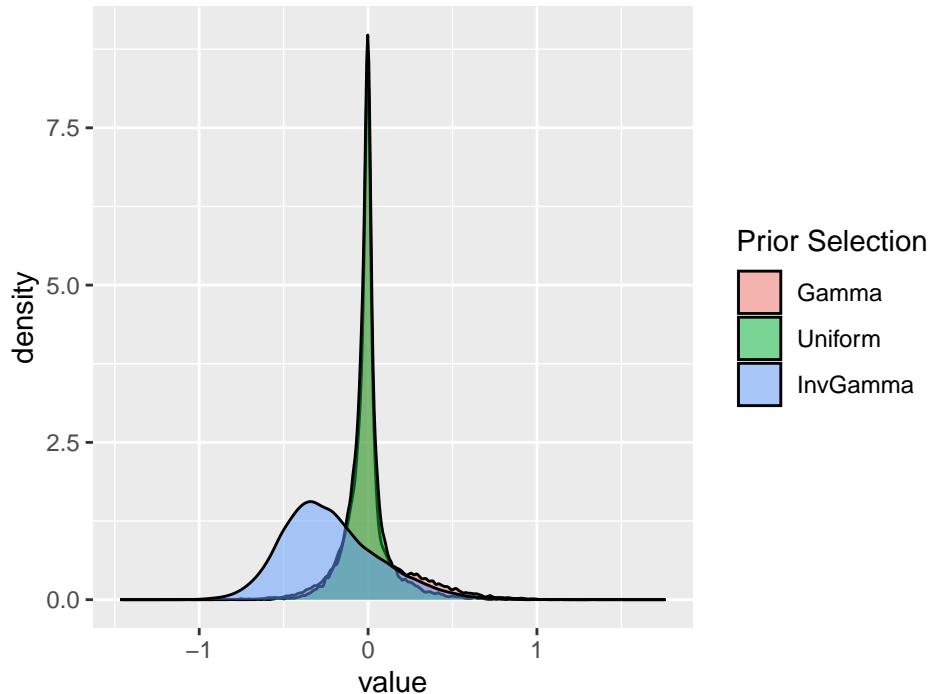
Posterior Density Plot of betaR1[19]



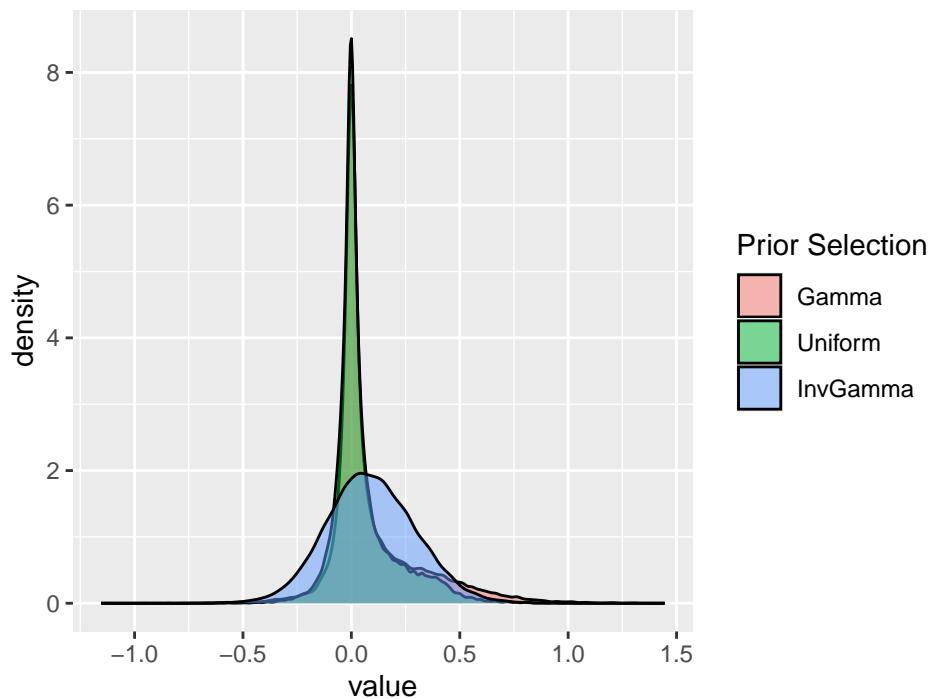
Posterior Density Plot of betaR1[20]



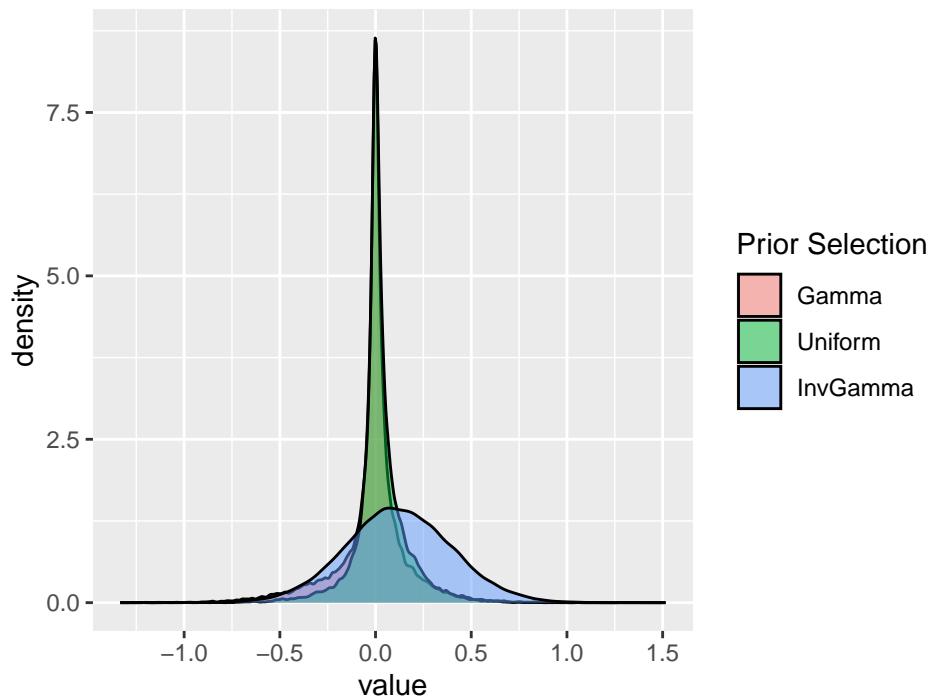
Posterior Density Plot of betaR1[21]



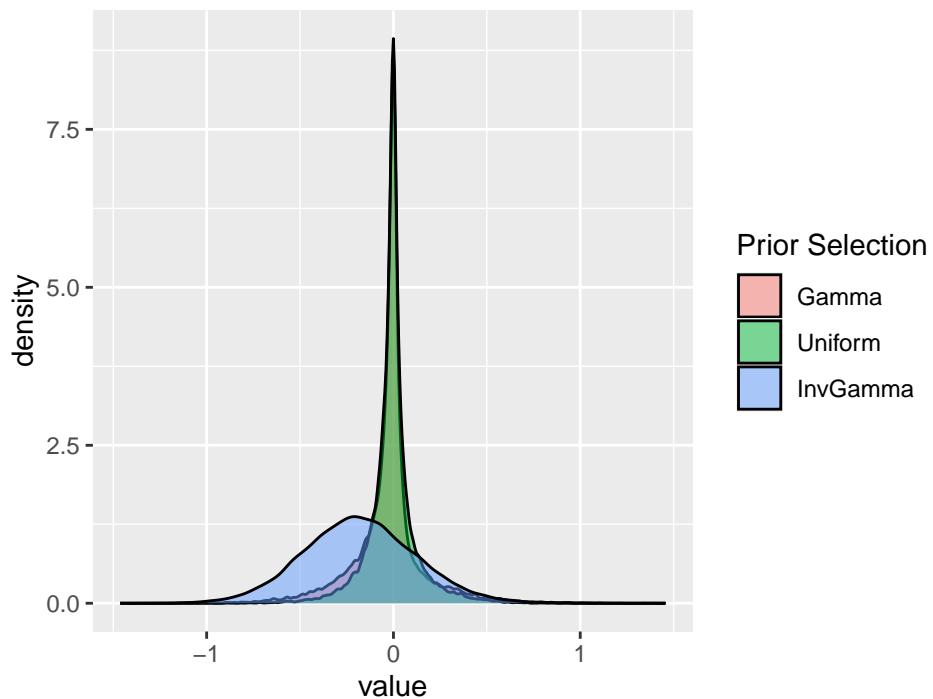
Posterior Density Plot of betaR1[22]



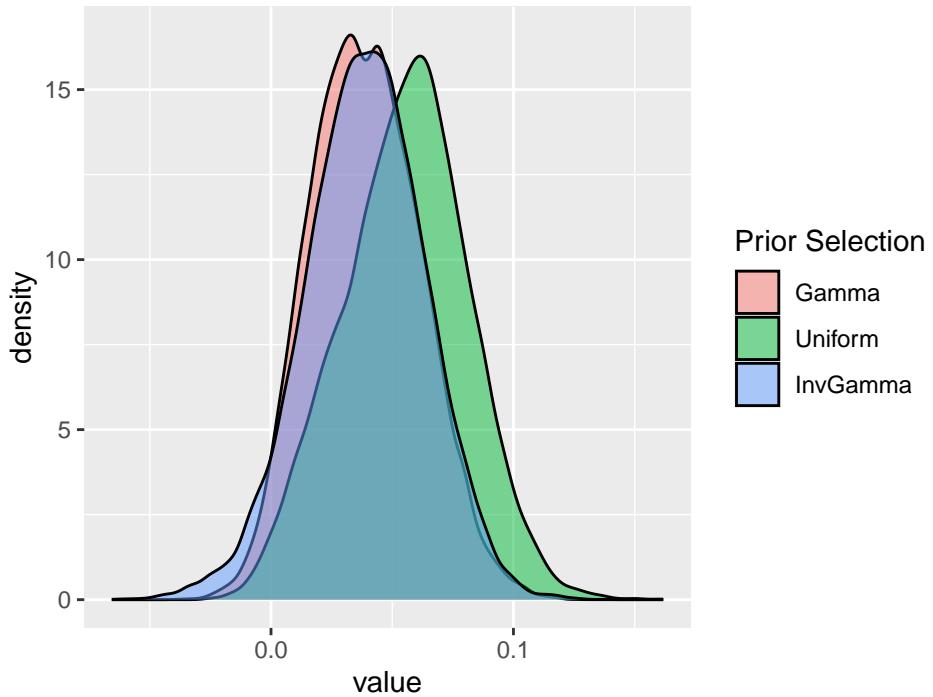
Posterior Density Plot of betaR1[23]



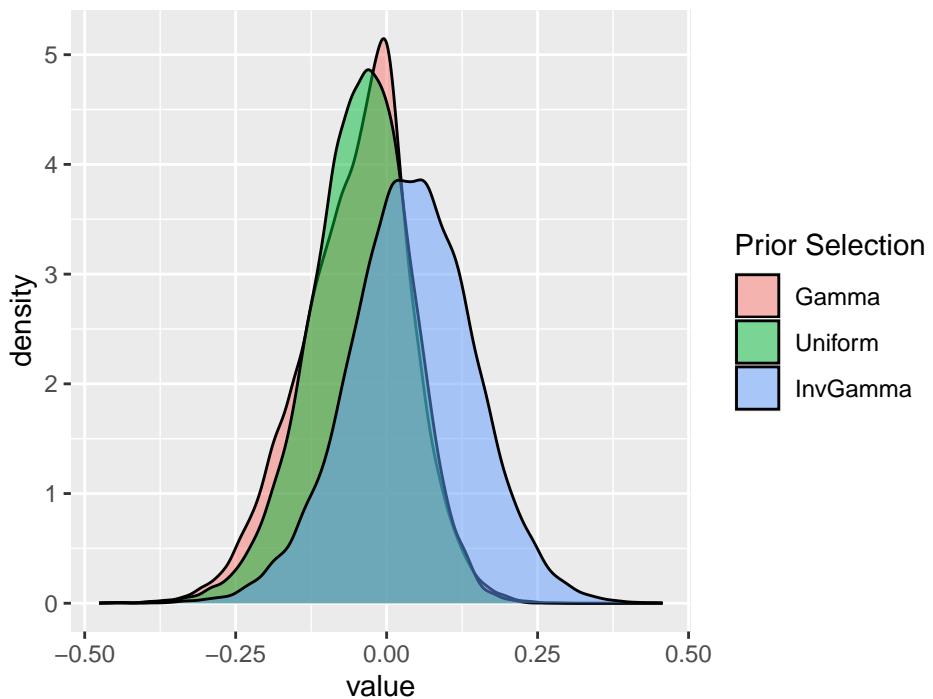
Posterior Density Plot of betaR1[24]



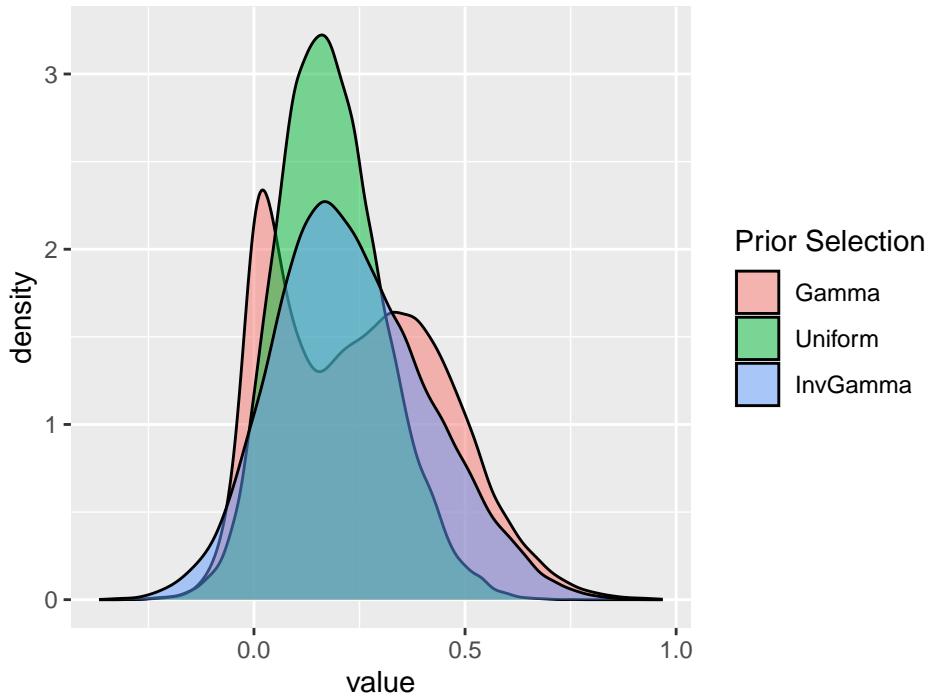
Posterior Density Plot of betaR2[1]



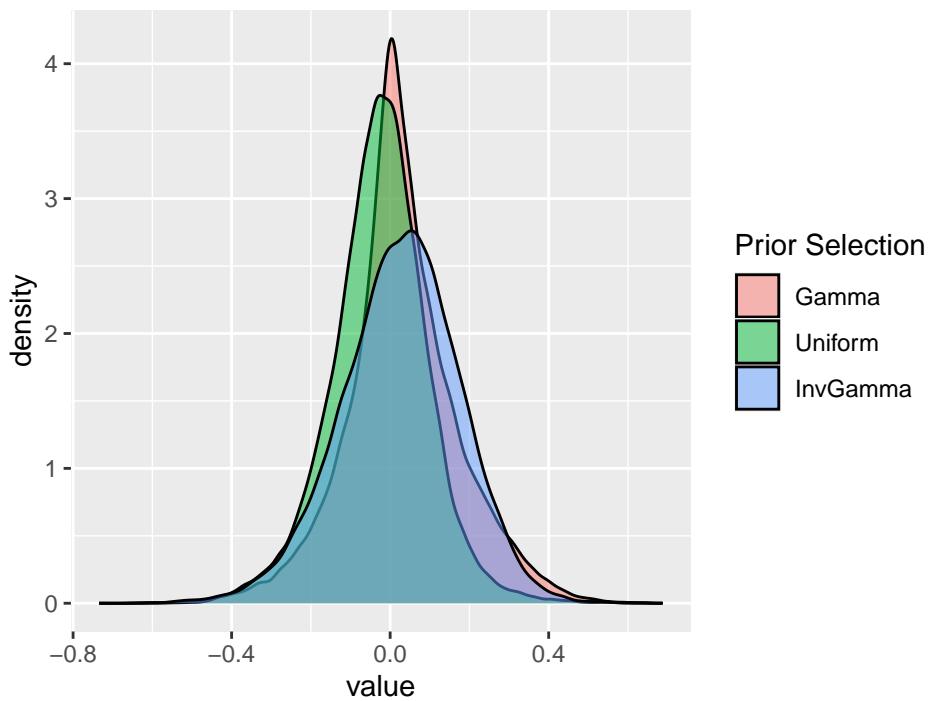
Posterior Density Plot of betaR2[2]



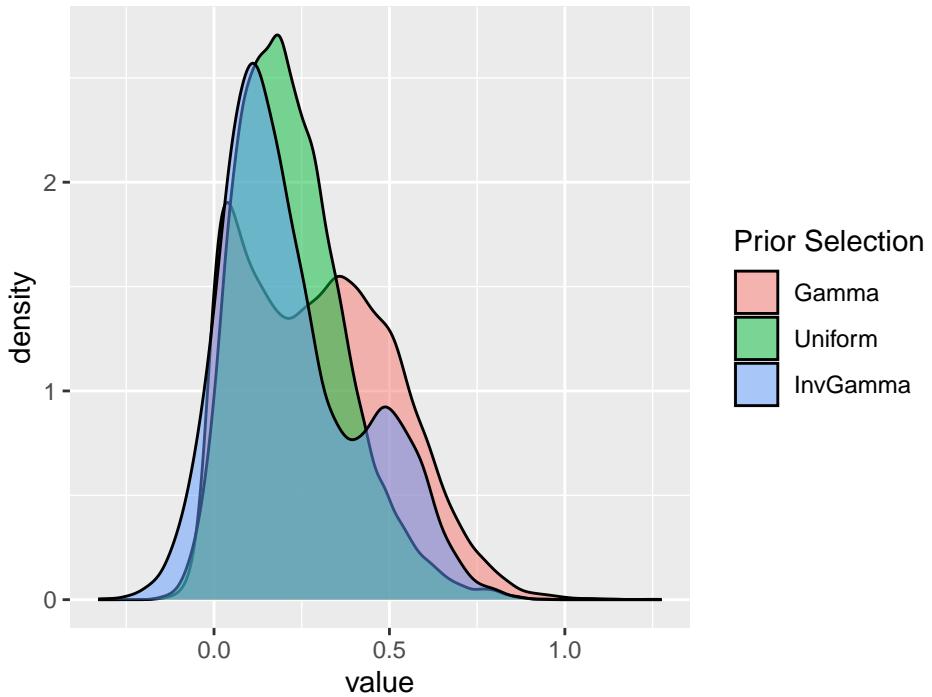
Posterior Density Plot of betaR2[3]



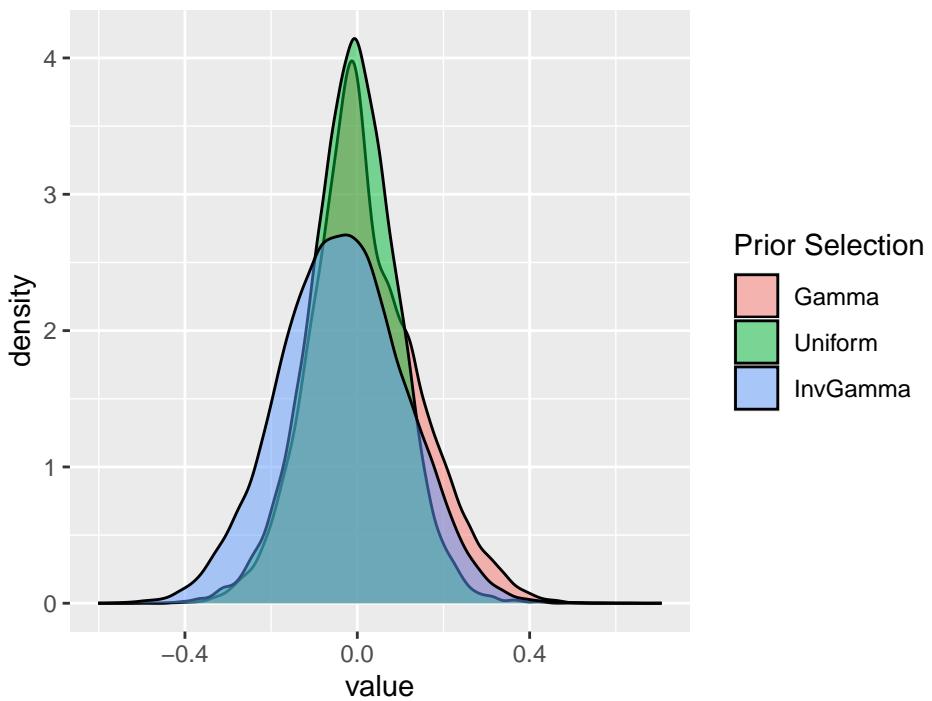
Posterior Density Plot of betaR2[4]



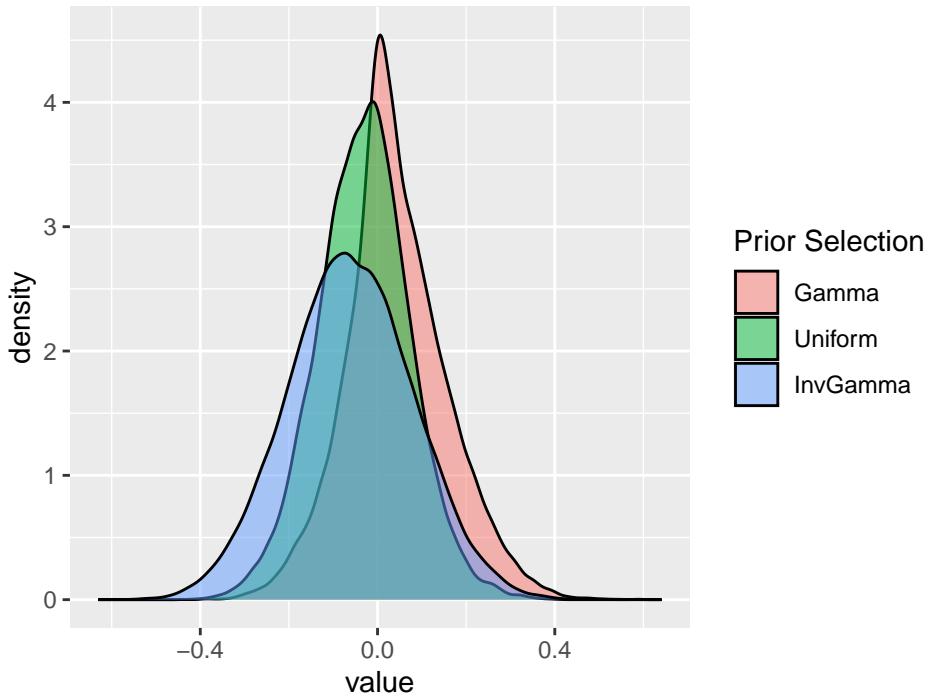
Posterior Density Plot of betaR2[5]



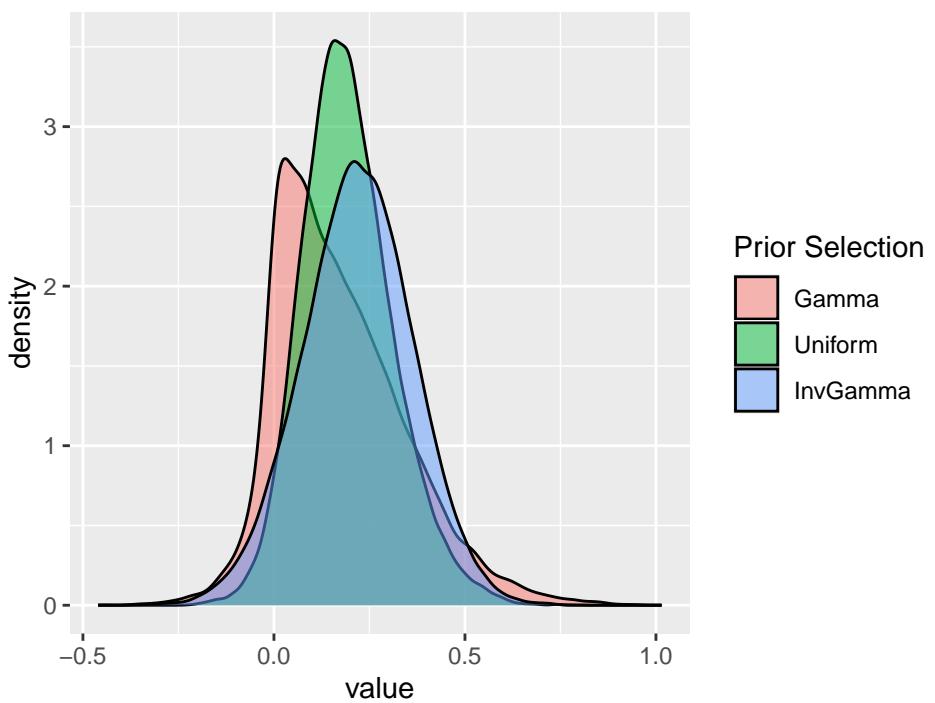
Posterior Density Plot of betaR2[6]



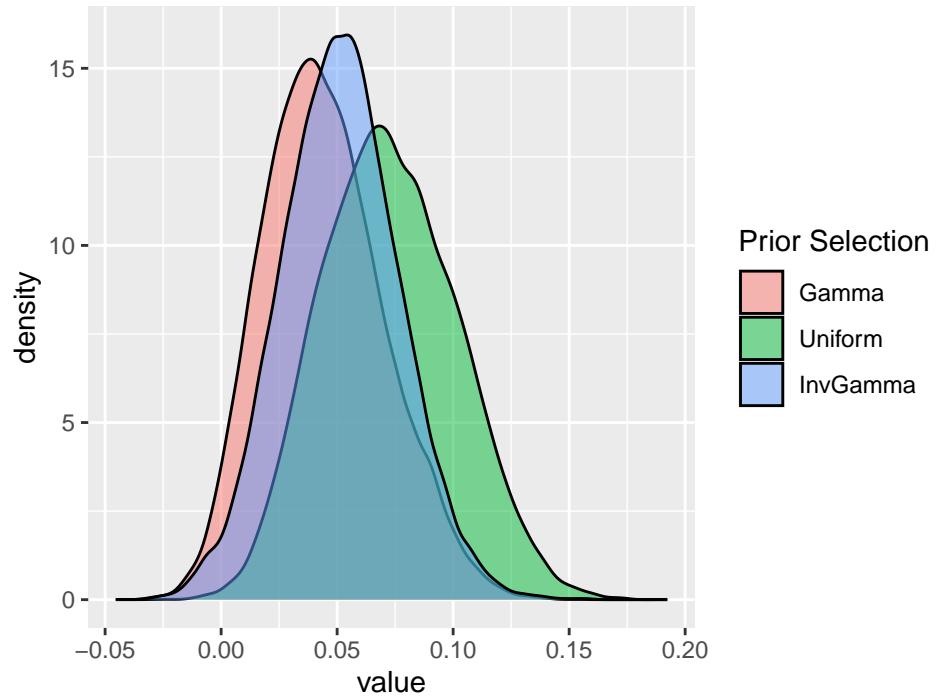
Posterior Density Plot of betaR2[7]



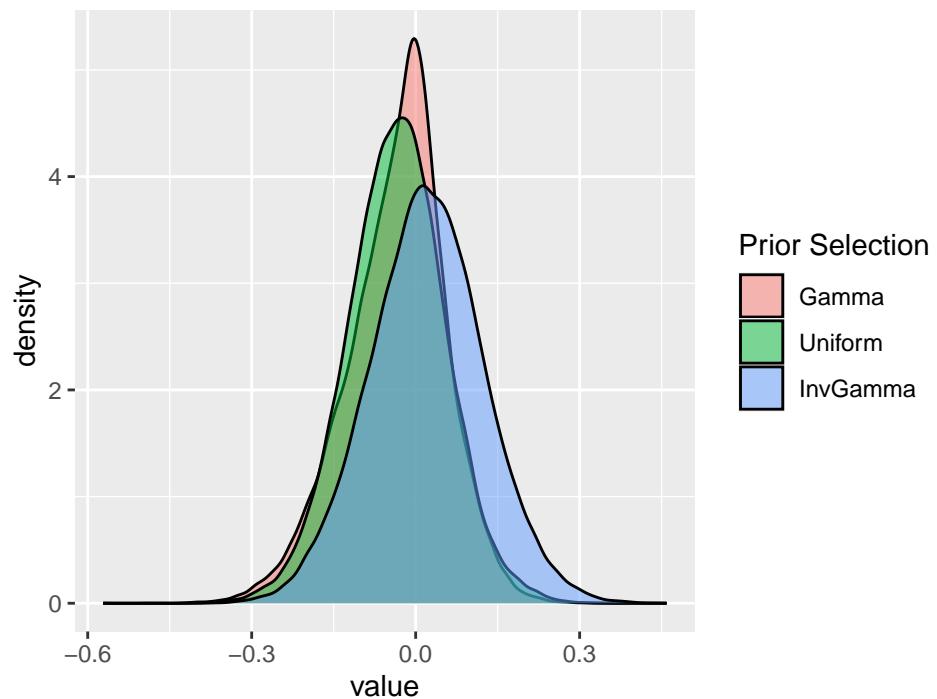
Posterior Density Plot of betaR2[8]



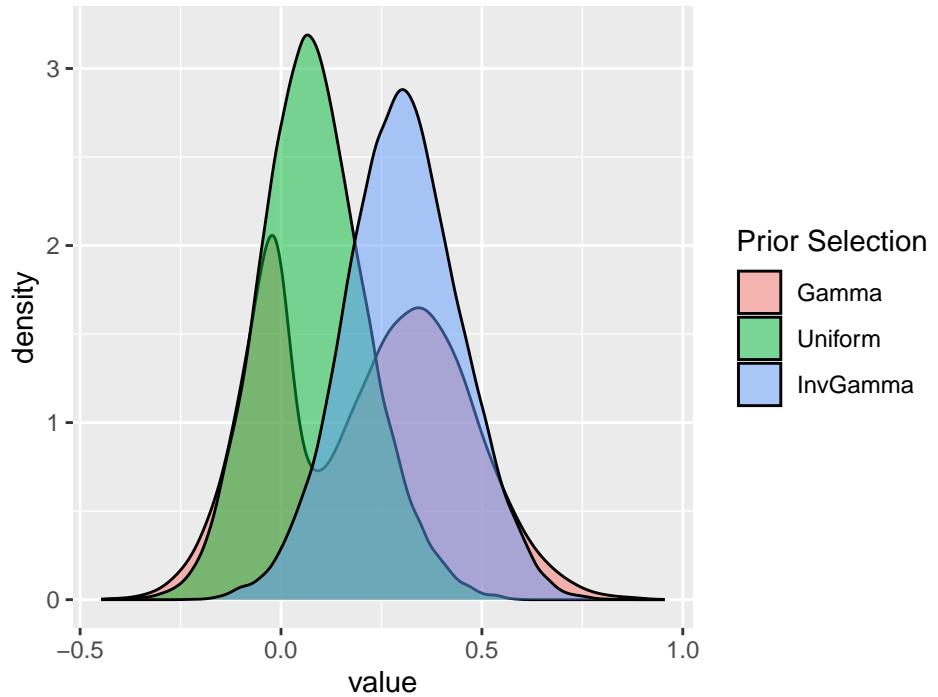
Posterior Density Plot of betaR2[9]



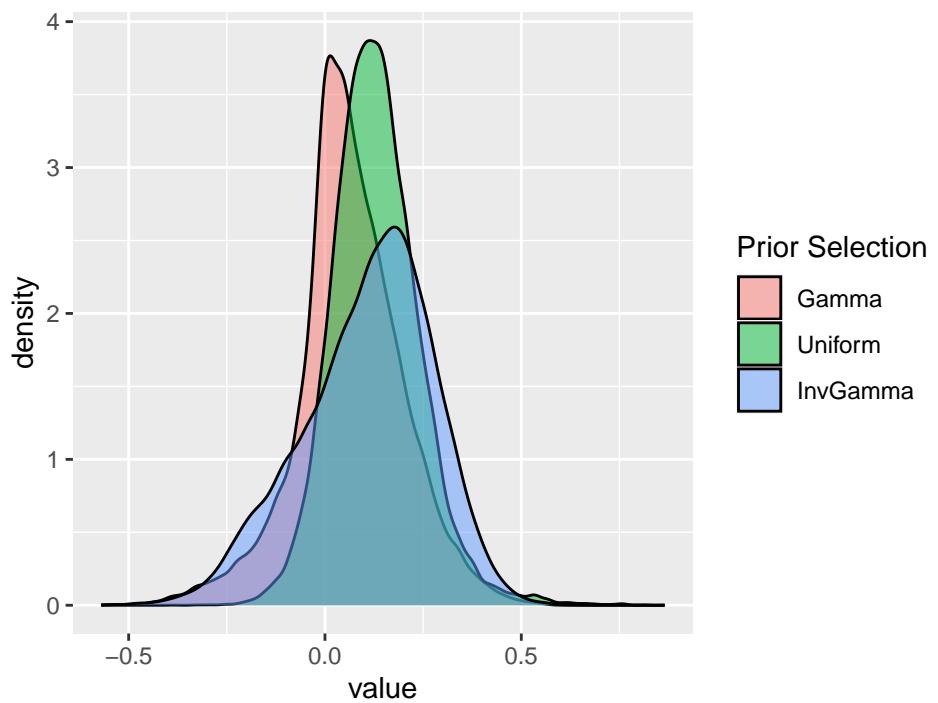
Posterior Density Plot of betaR2[10]



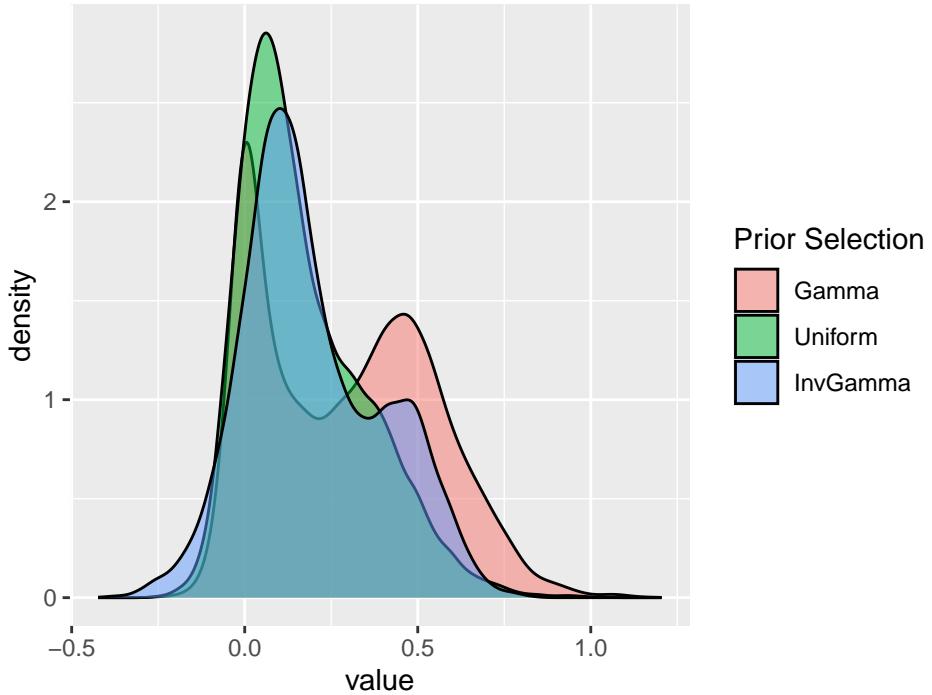
Posterior Density Plot of betaR2[11]



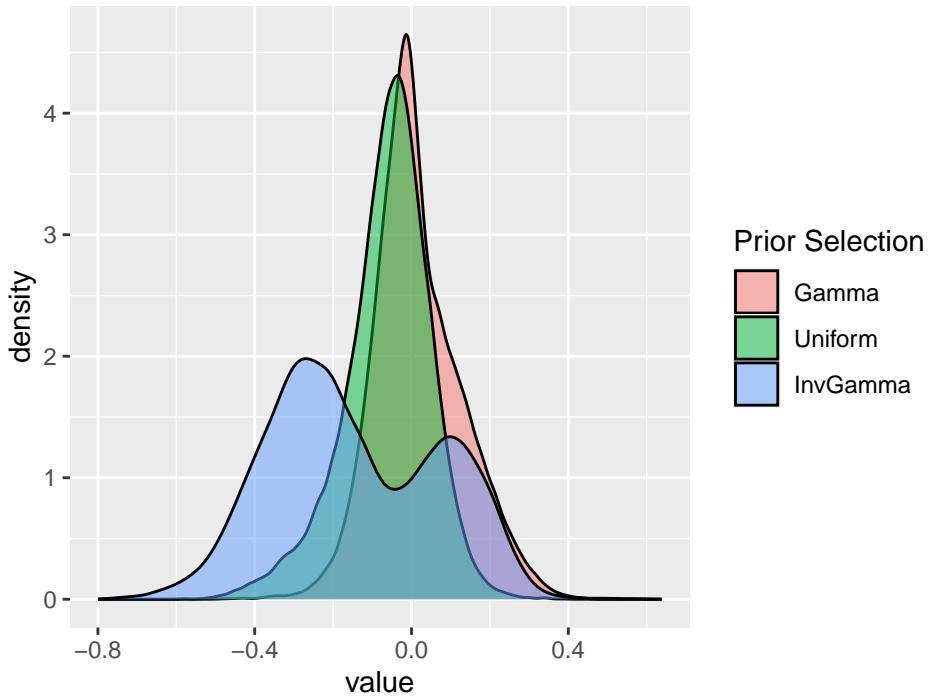
Posterior Density Plot of betaR2[12]



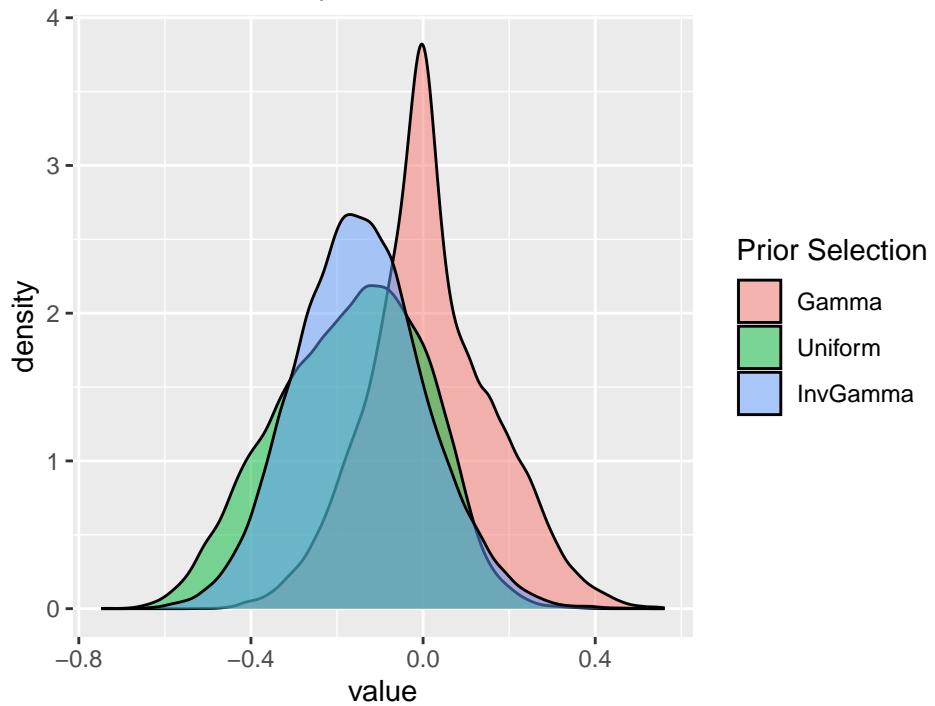
Posterior Density Plot of betaR2[13]



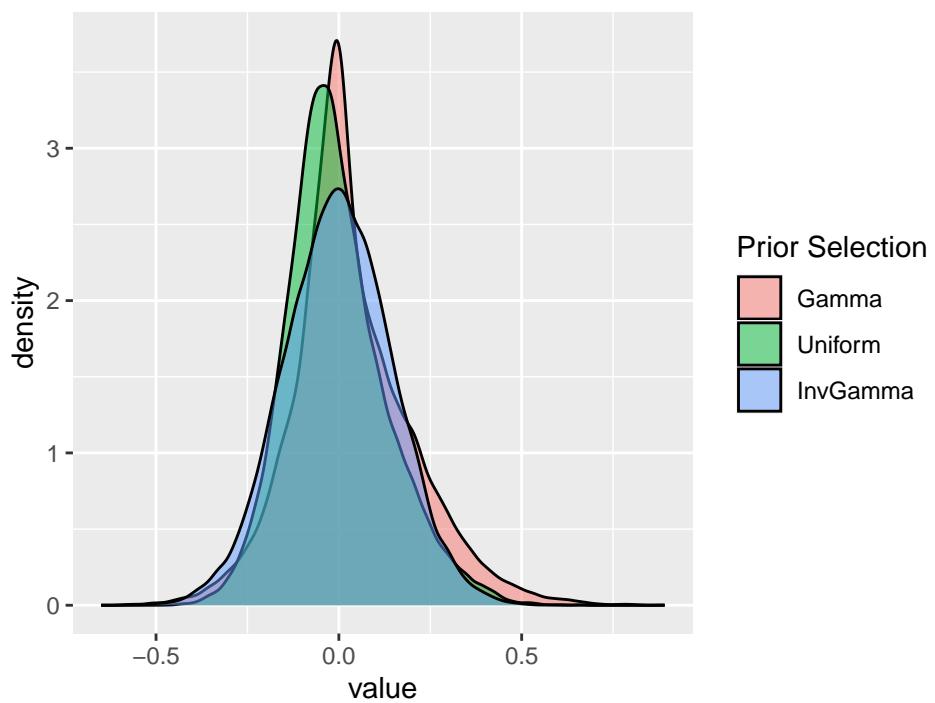
Posterior Density Plot of betaR2[14]



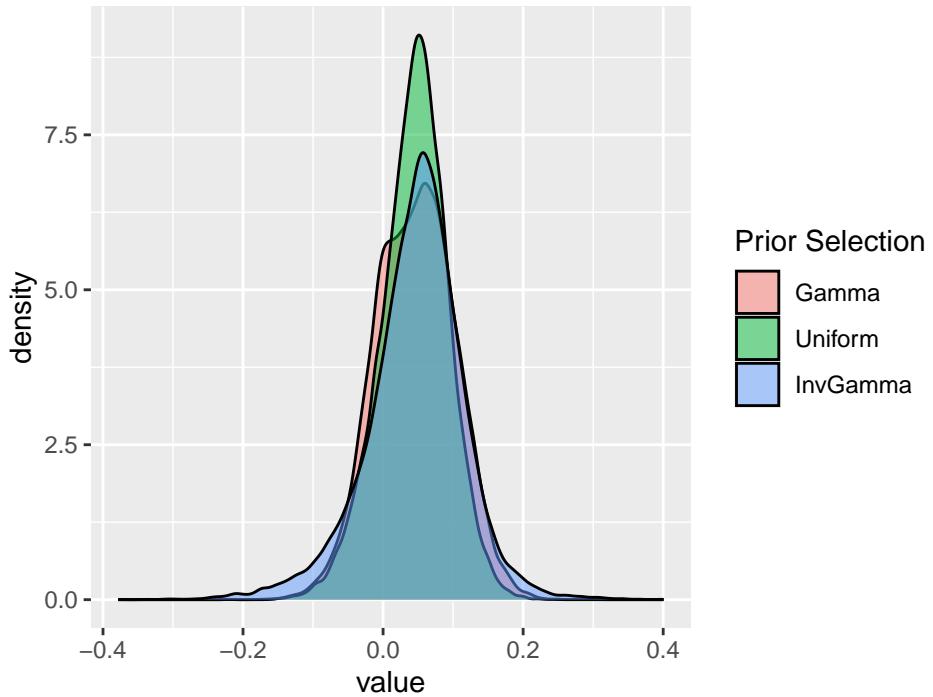
Posterior Density Plot of betaR2[15]



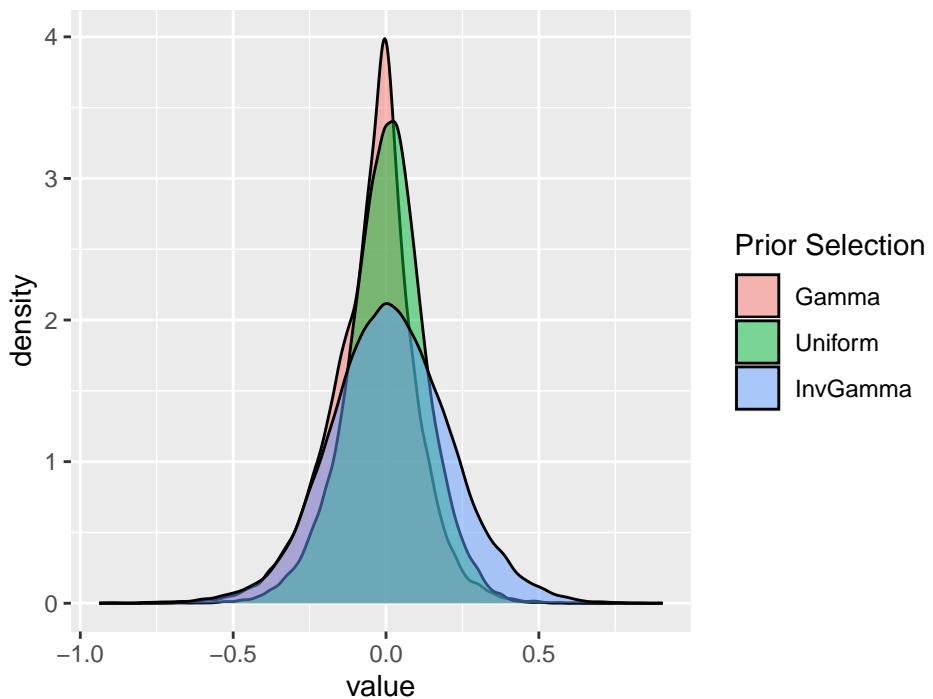
Posterior Density Plot of betaR2[16]



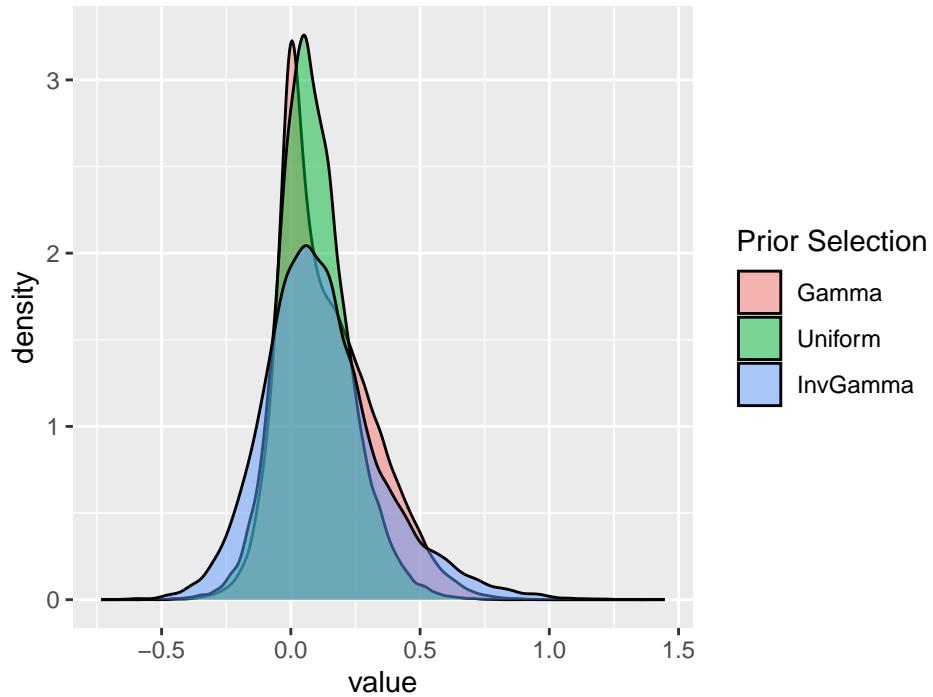
Posterior Density Plot of betaR2[17]



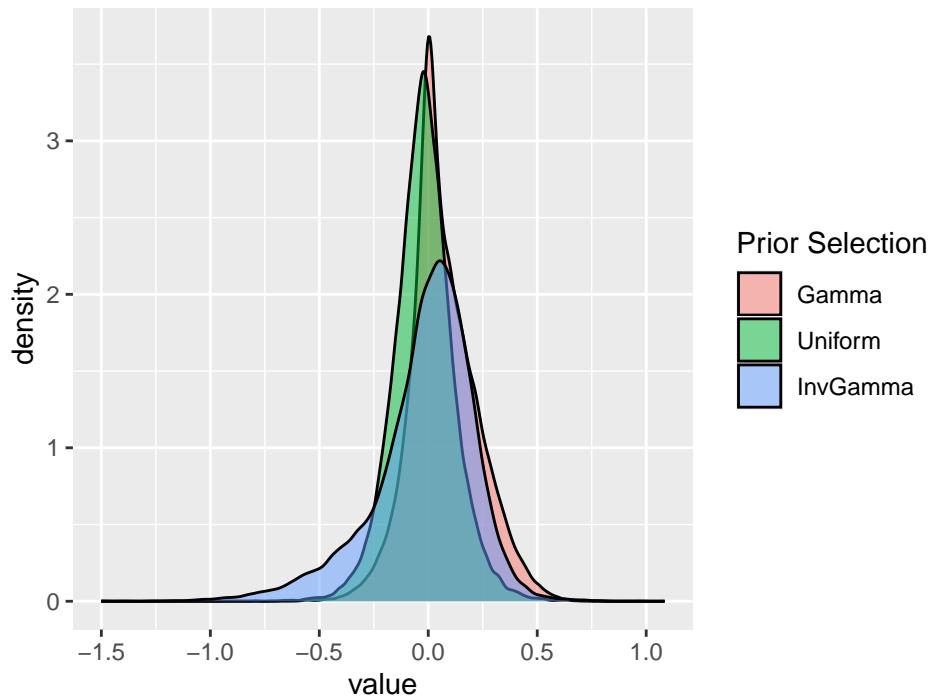
Posterior Density Plot of betaR2[18]



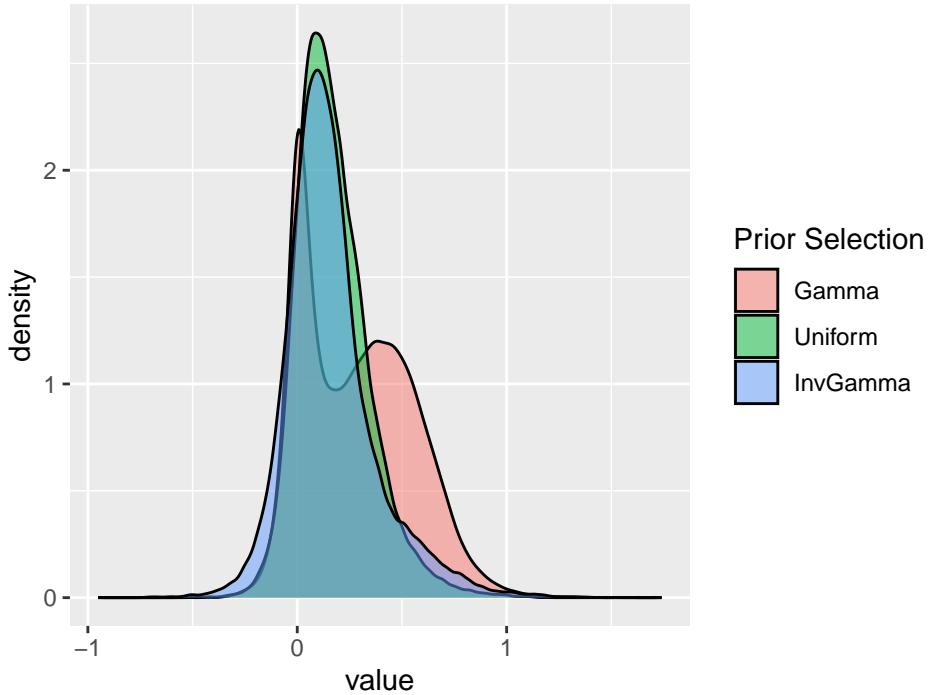
Posterior Density Plot of betaR2[19]



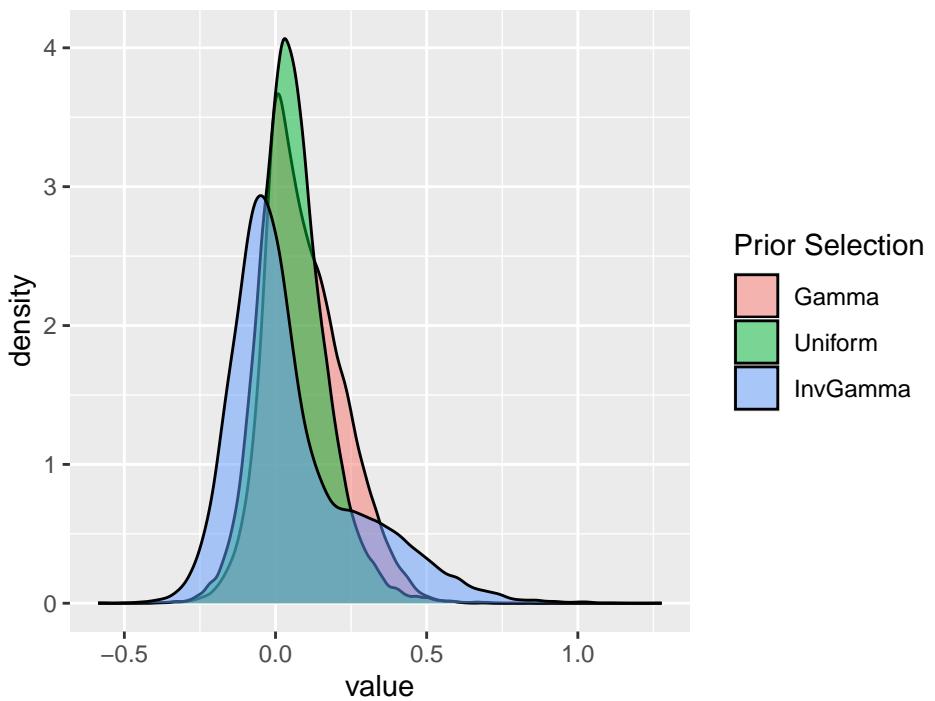
Posterior Density Plot of betaR2[20]



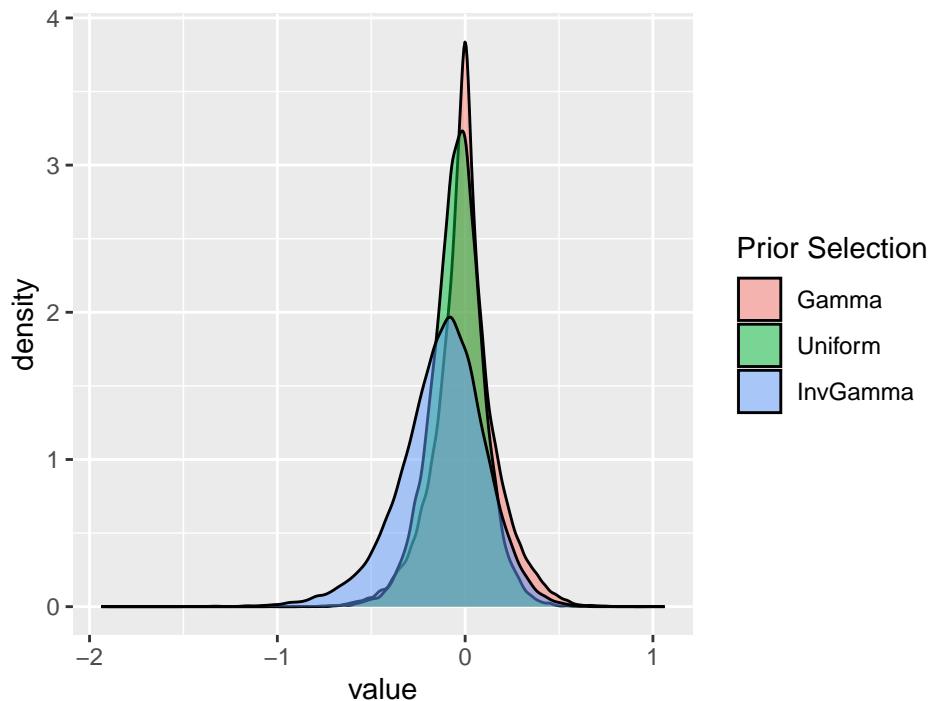
Posterior Density Plot of betaR2[21]



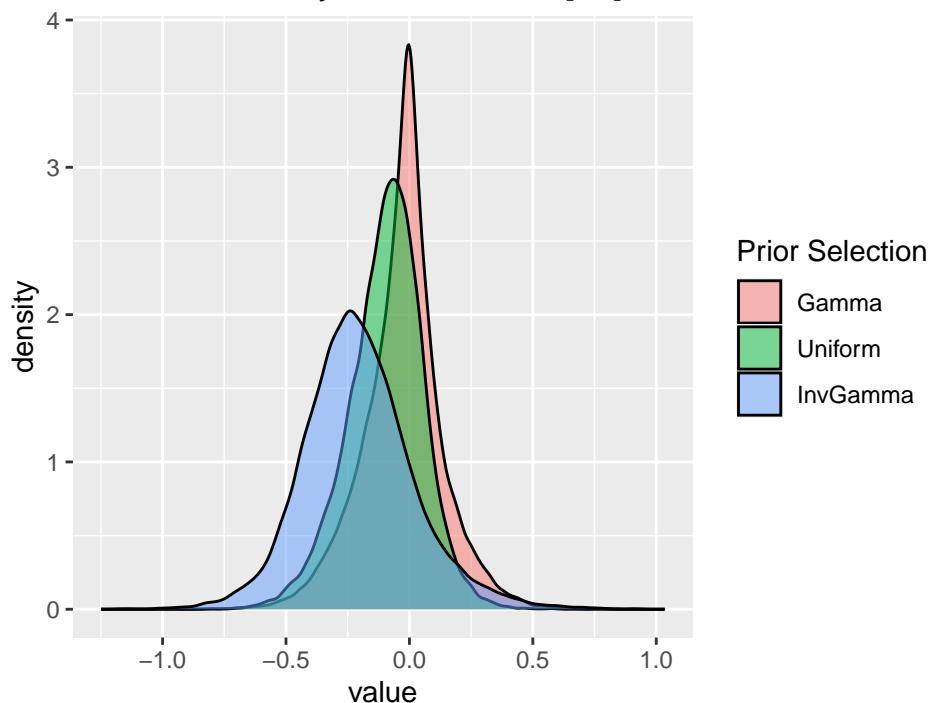
Posterior Density Plot of betaR2[22]



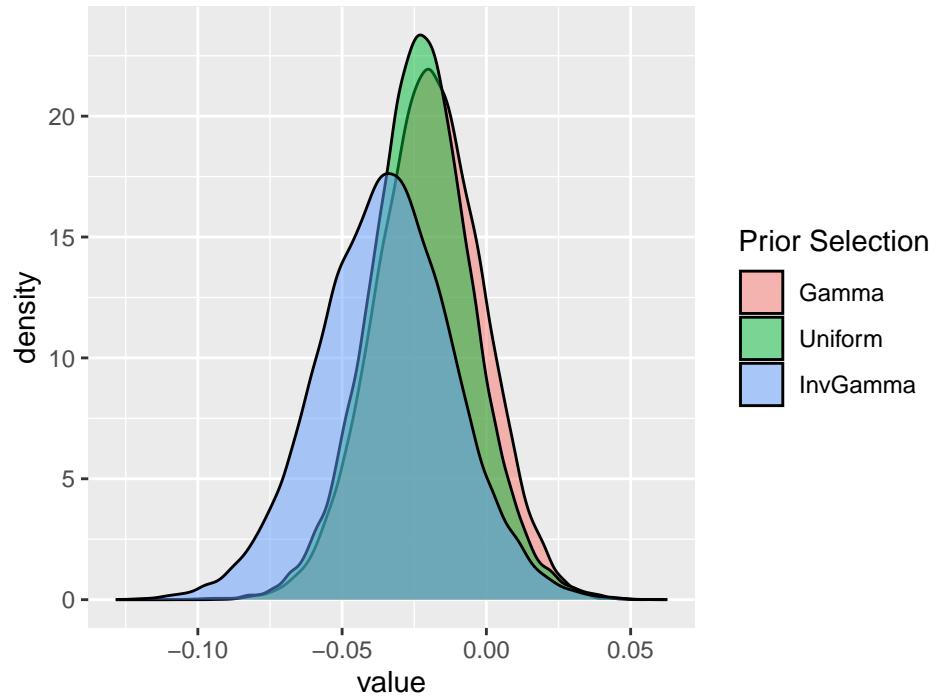
Posterior Density Plot of betaR2[23]



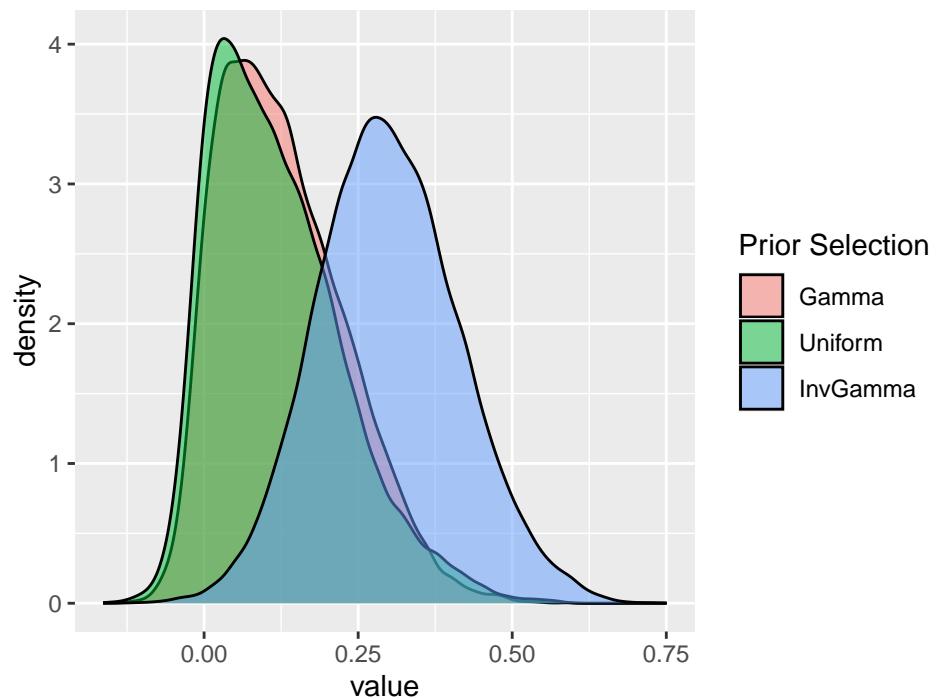
Posterior Density Plot of betaR2[24]



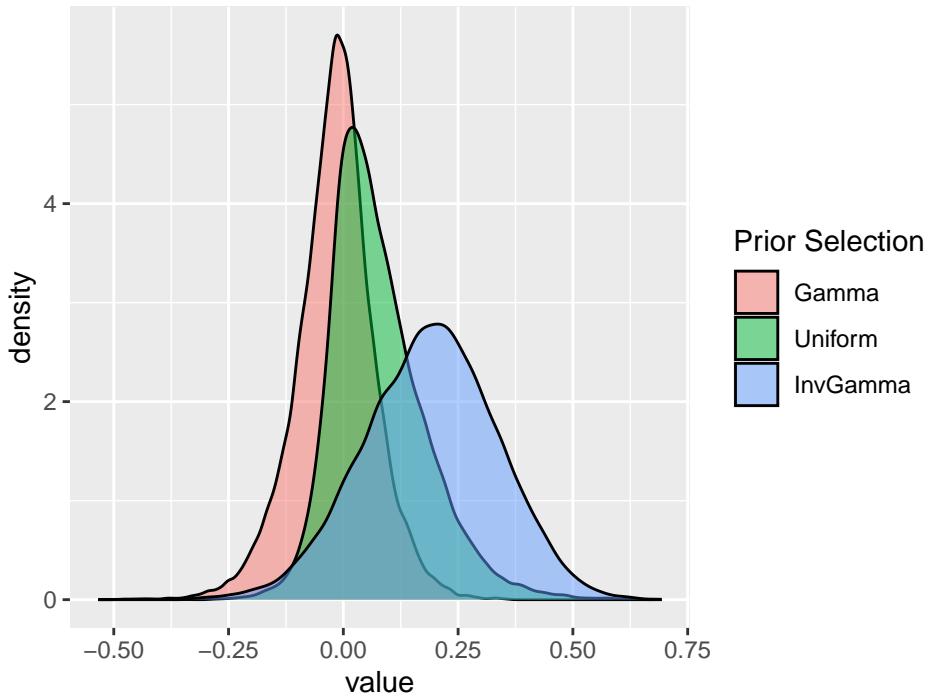
Posterior Density Plot of betaR3[1]



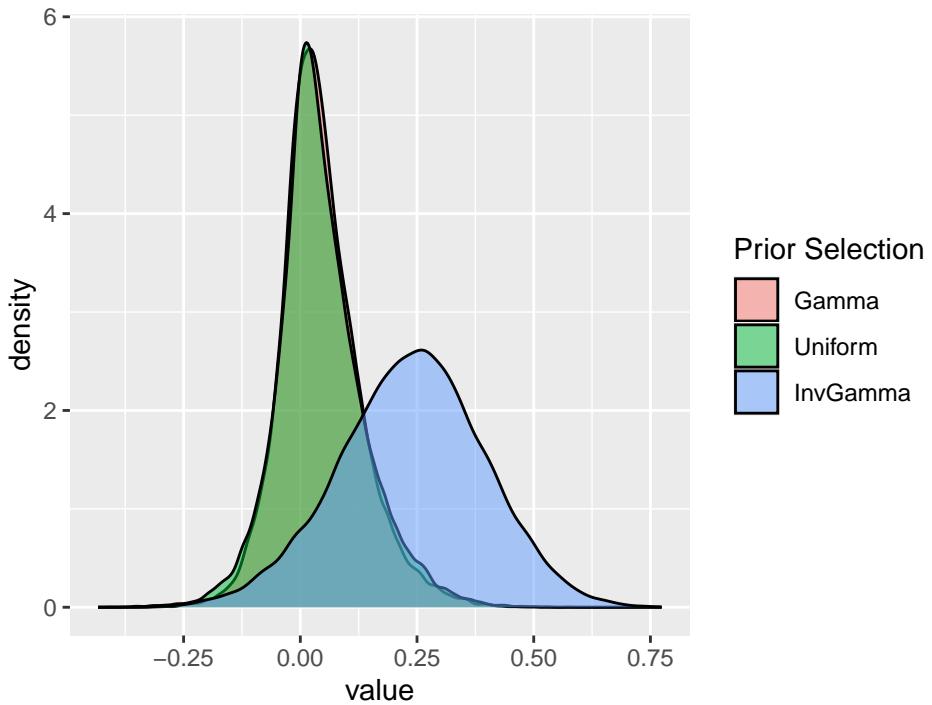
Posterior Density Plot of betaR3[2]



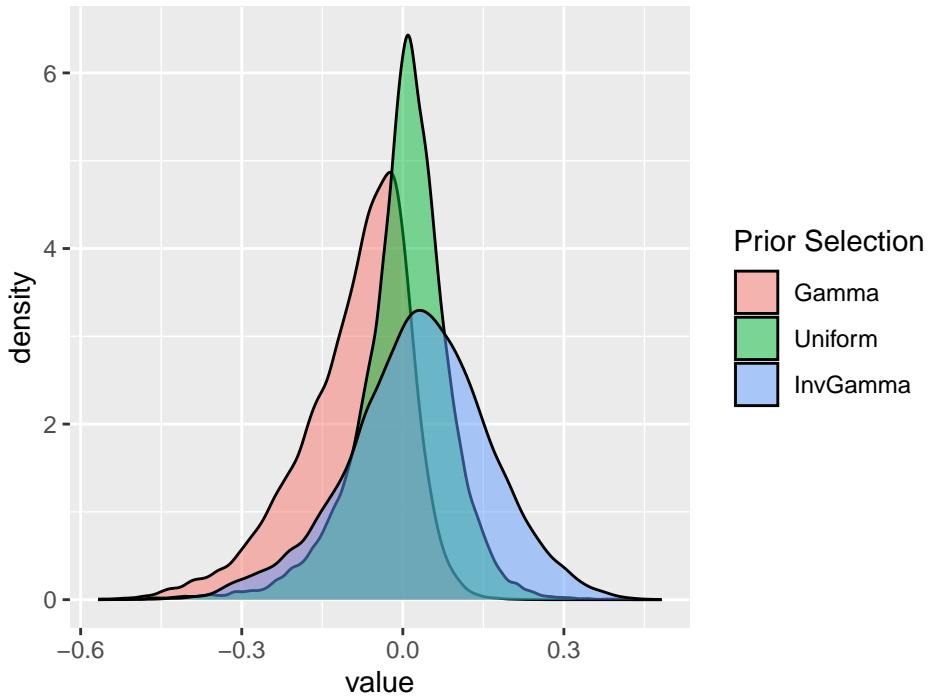
Posterior Density Plot of betaR3[3]



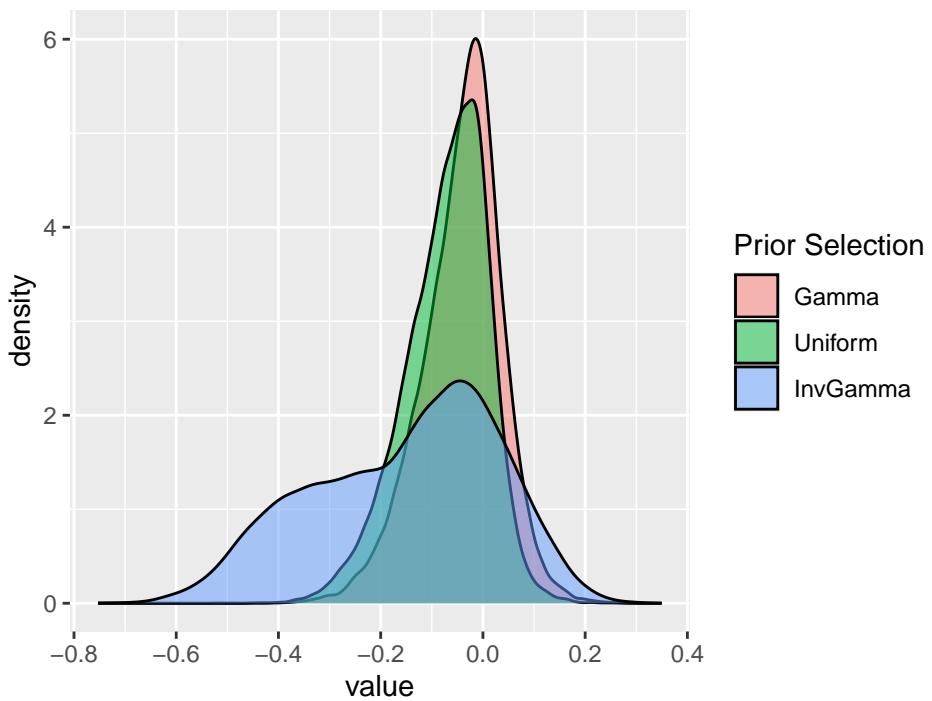
Posterior Density Plot of betaR3[4]



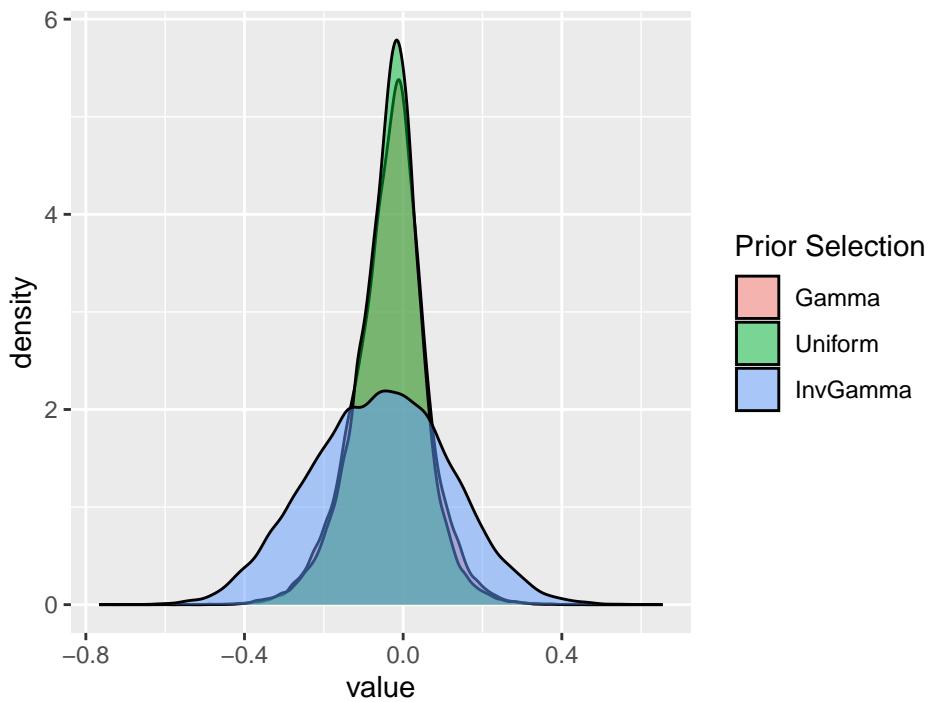
Posterior Density Plot of betaR3[5]



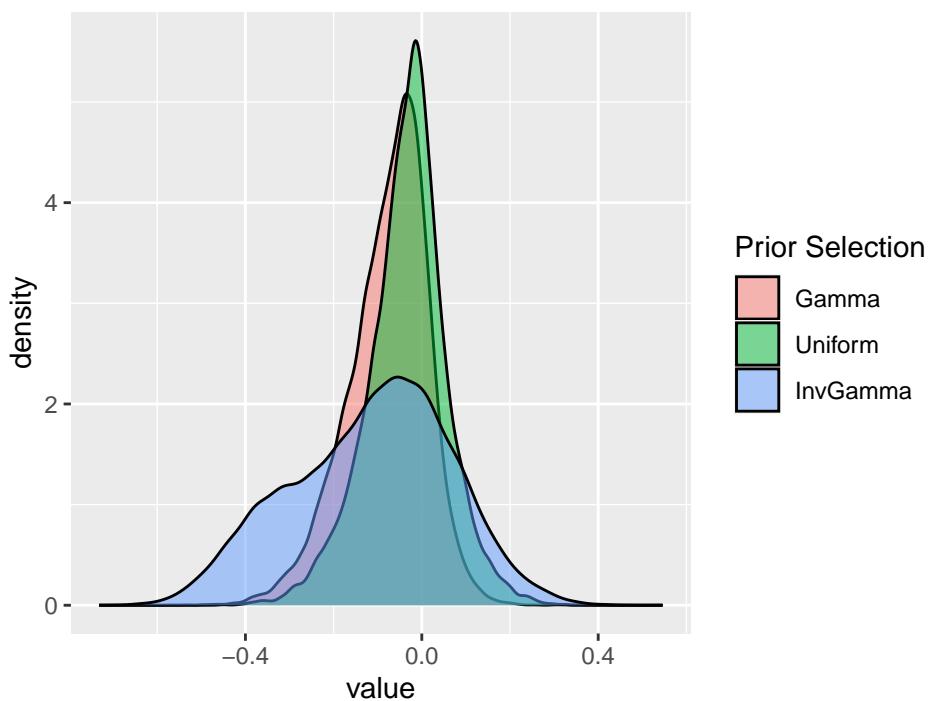
Posterior Density Plot of betaR3[6]



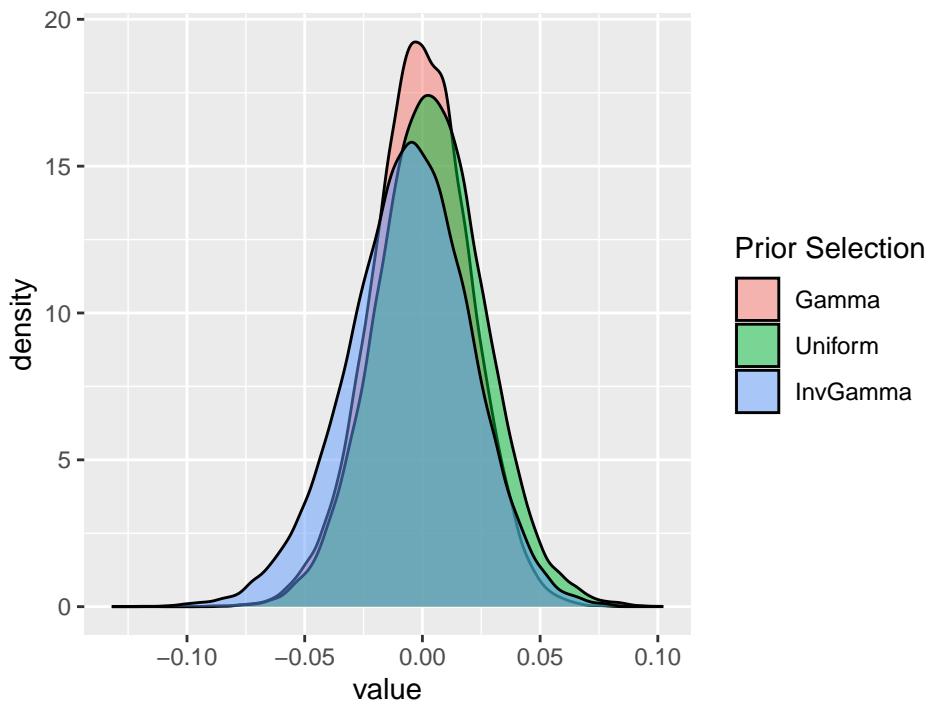
Posterior Density Plot of betaR3[7]



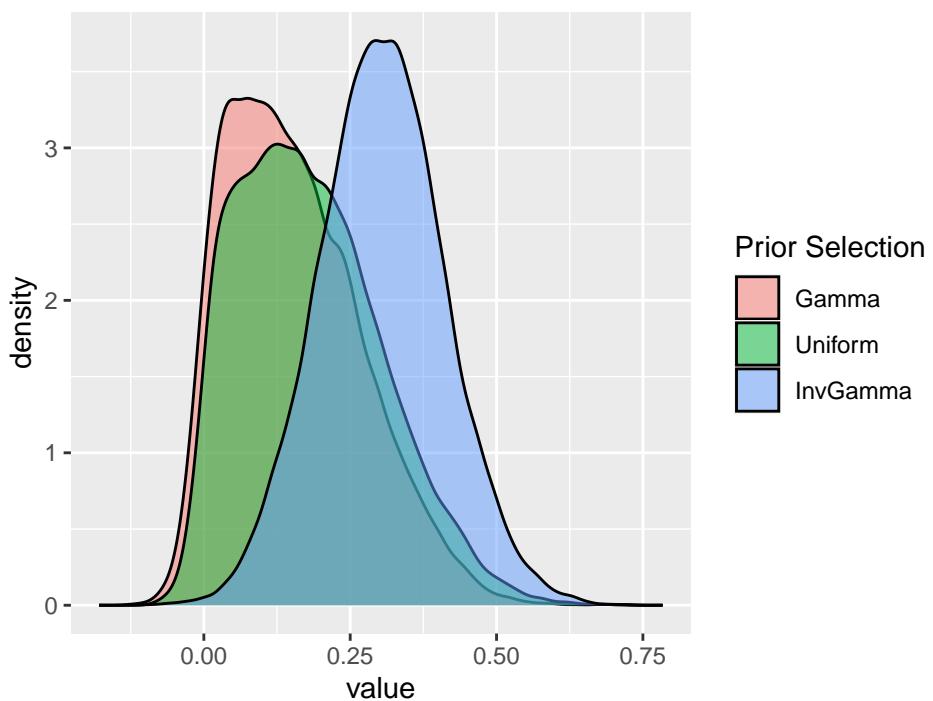
Posterior Density Plot of betaR3[8]



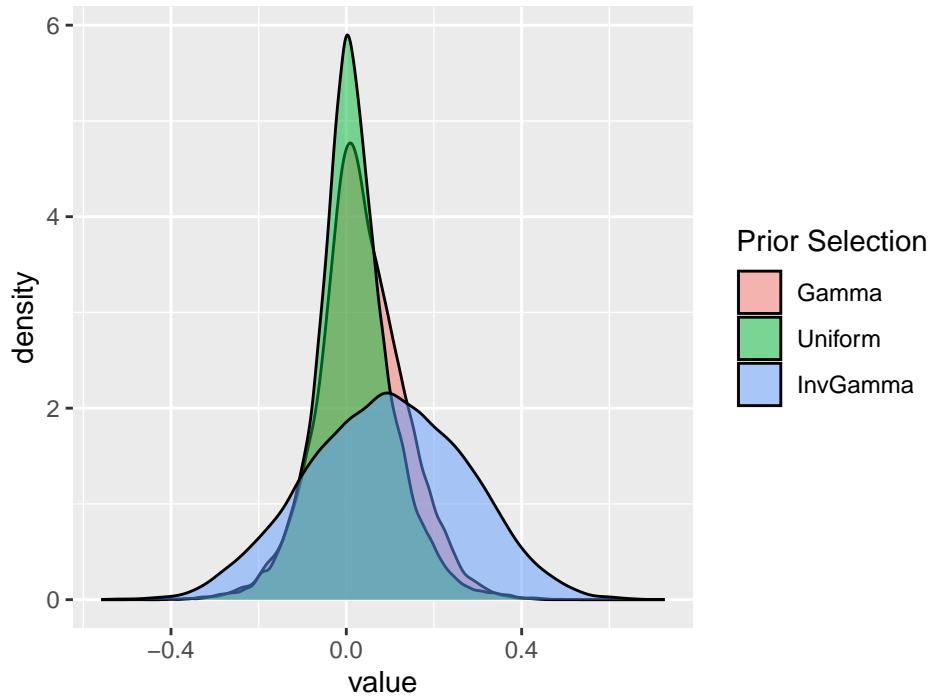
Posterior Density Plot of betaR3[9]



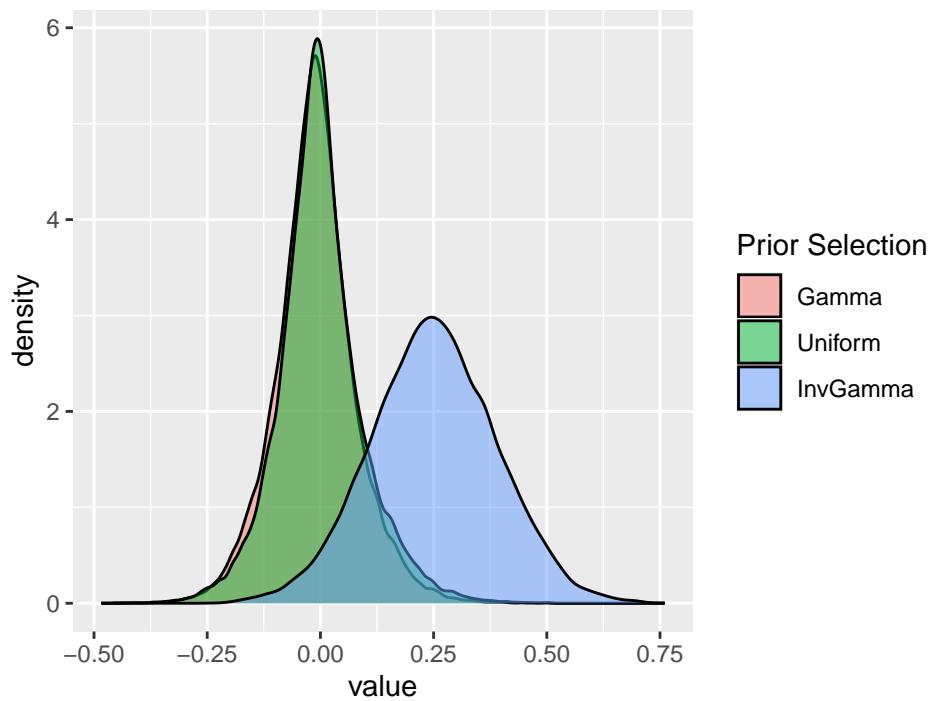
Posterior Density Plot of betaR3[10]



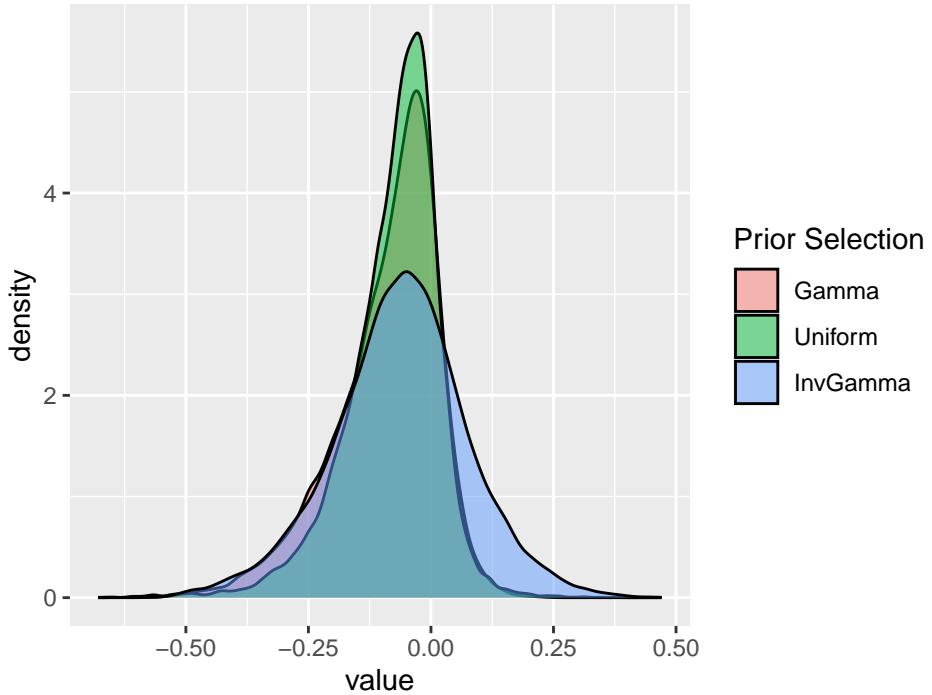
Posterior Density Plot of betaR3[11]



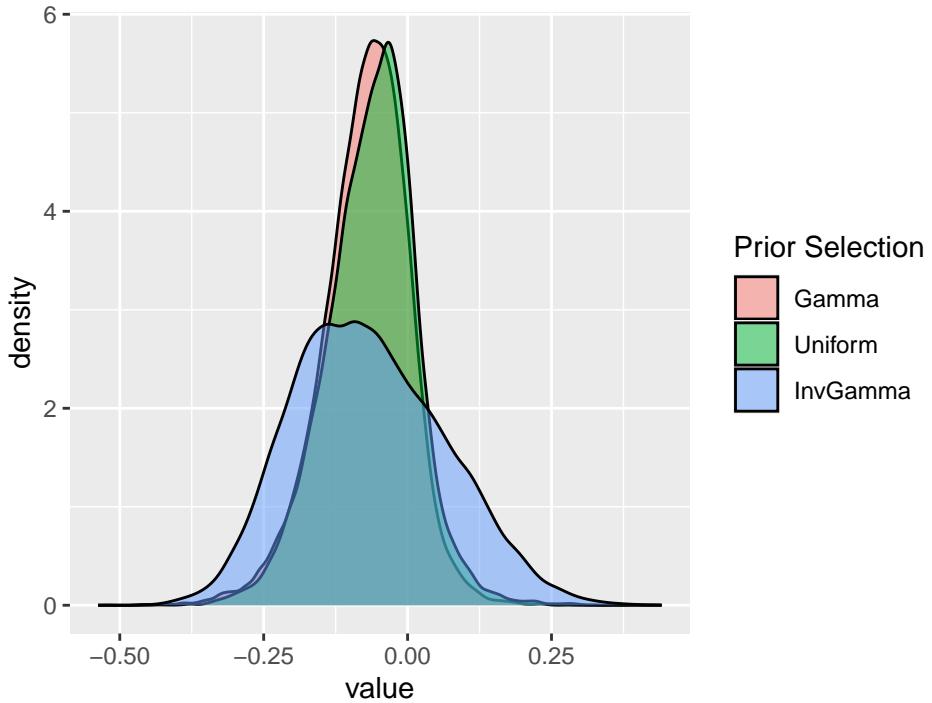
Posterior Density Plot of betaR3[12]



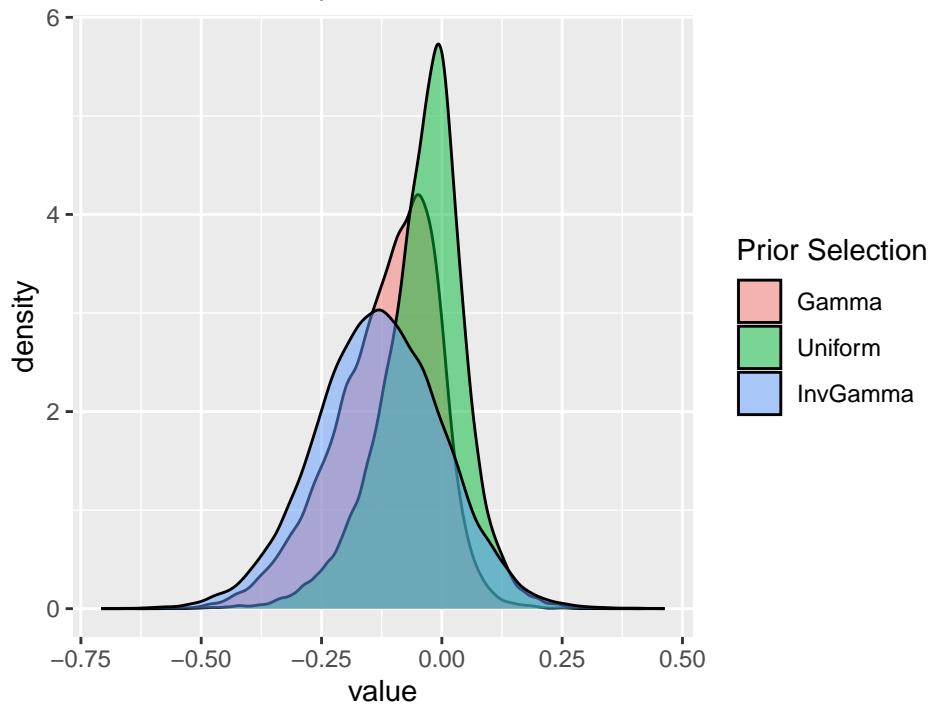
Posterior Density Plot of betaR3[13]



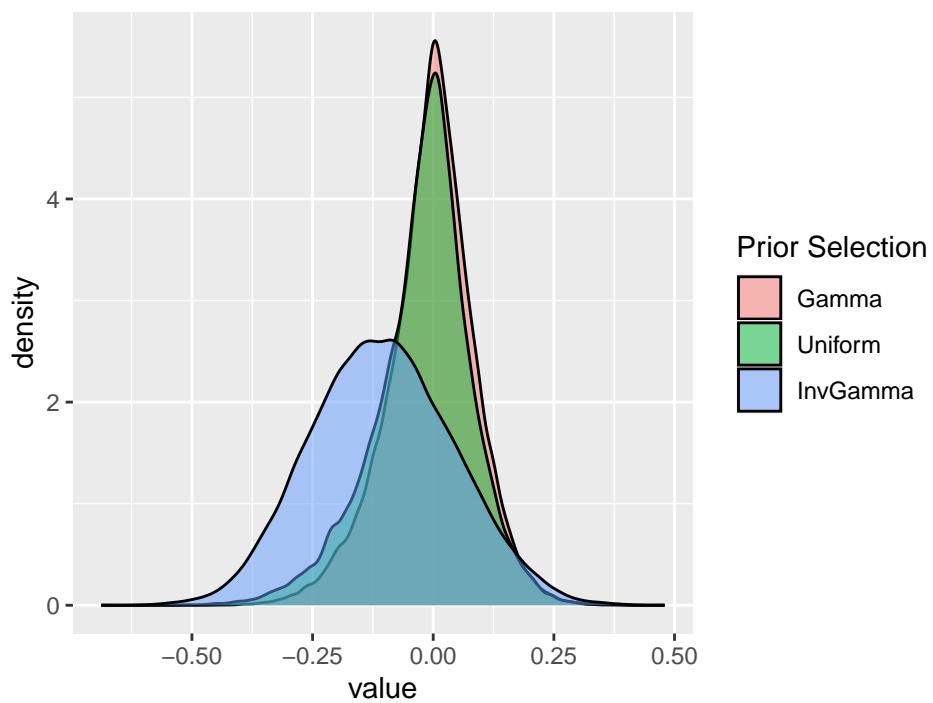
Posterior Density Plot of betaR3[14]



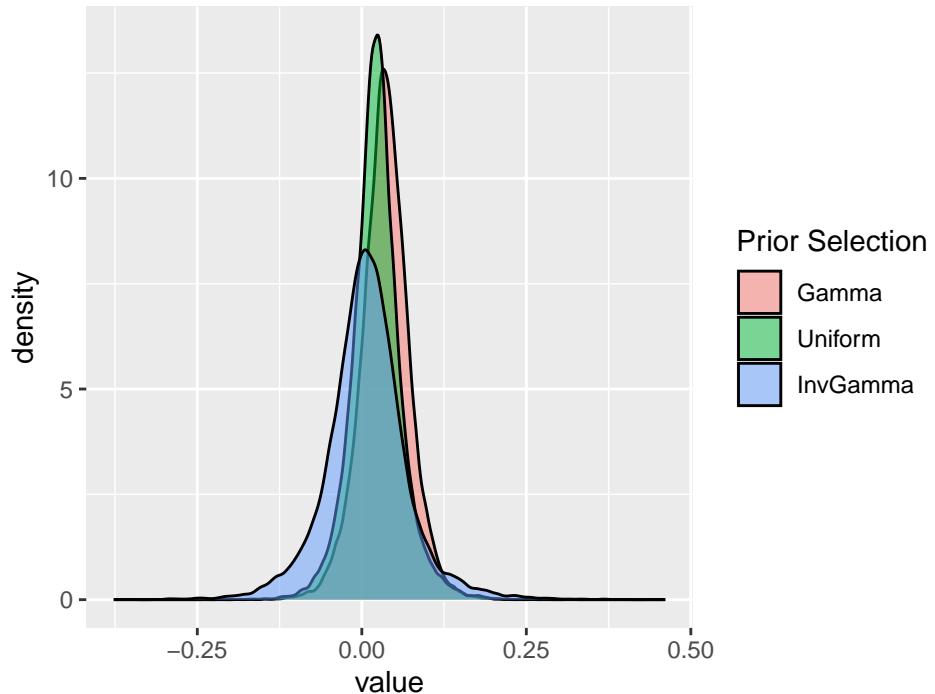
Posterior Density Plot of betaR3[15]



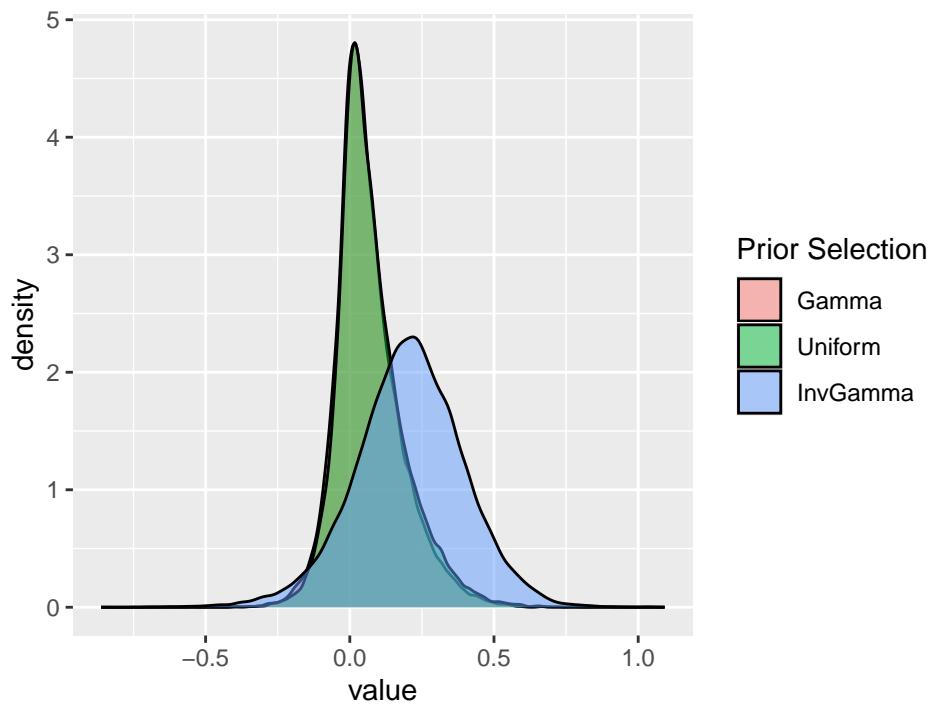
Posterior Density Plot of betaR3[16]



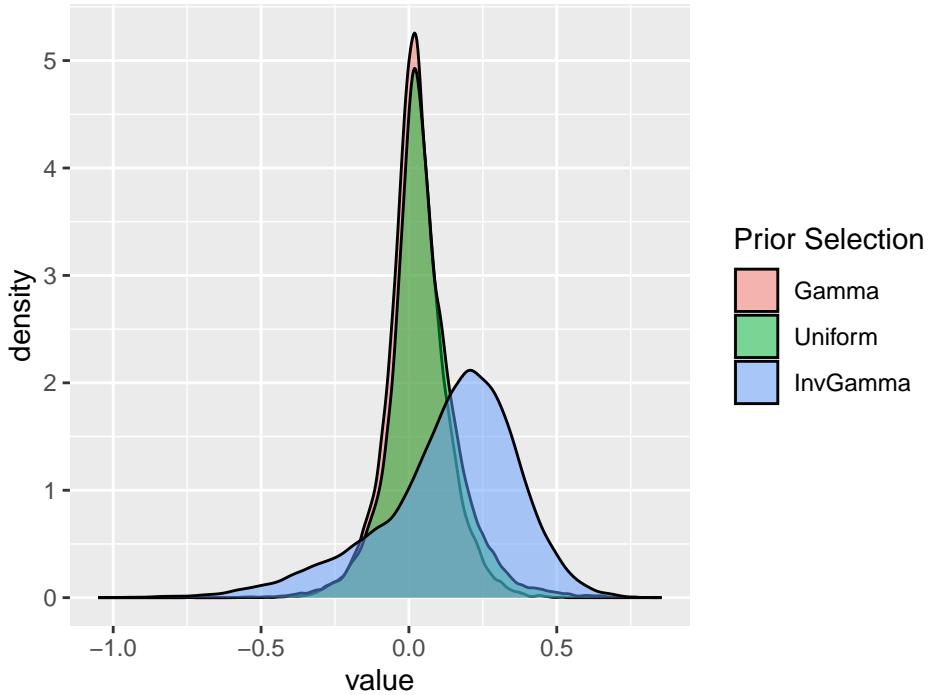
Posterior Density Plot of betaR3[17]



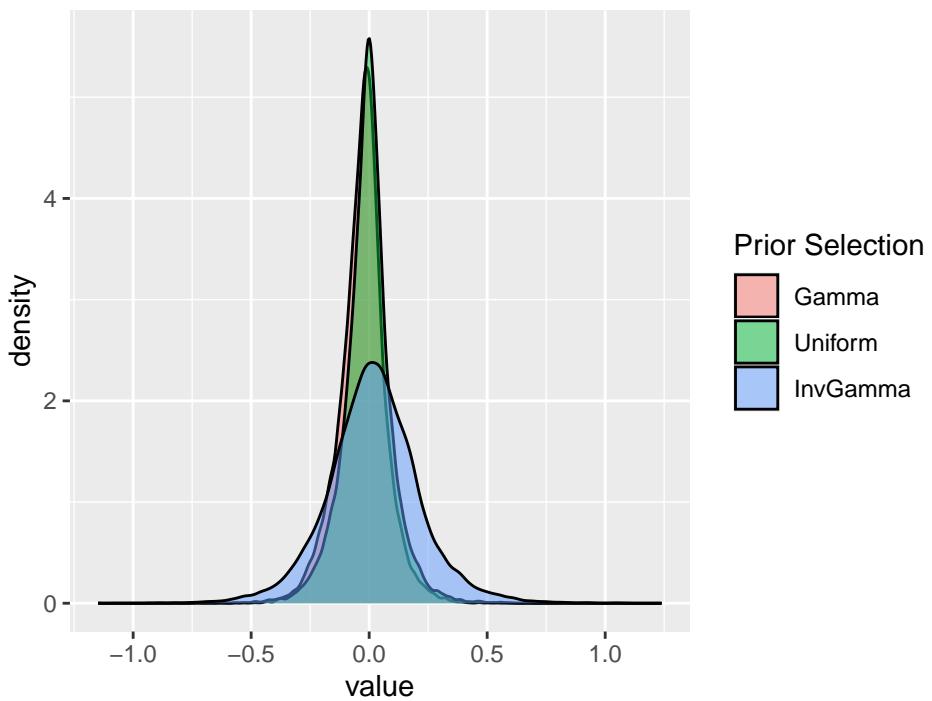
Posterior Density Plot of betaR3[18]



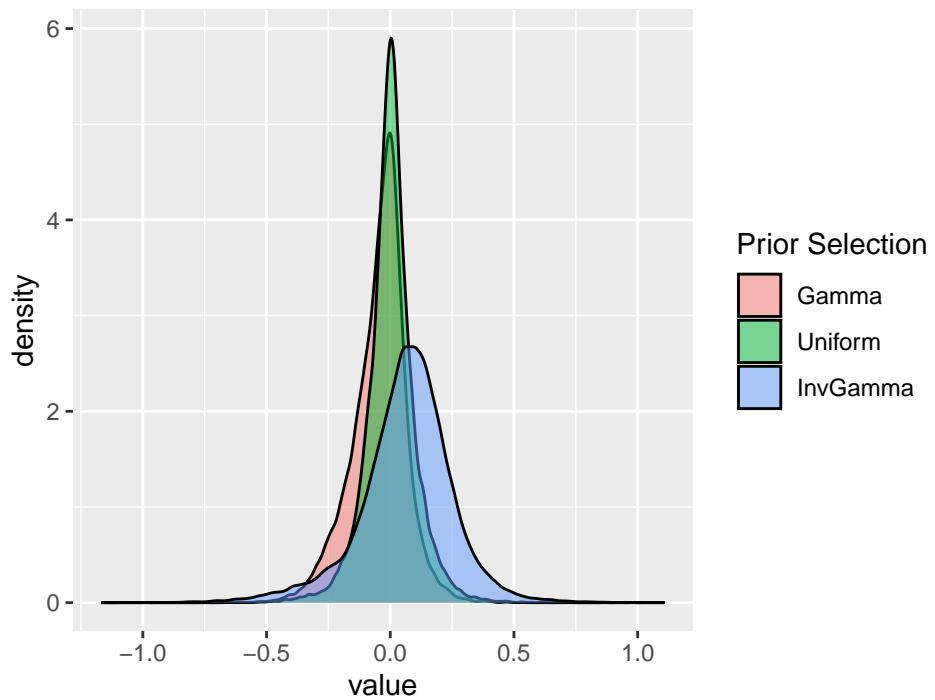
Posterior Density Plot of betaR3[19]



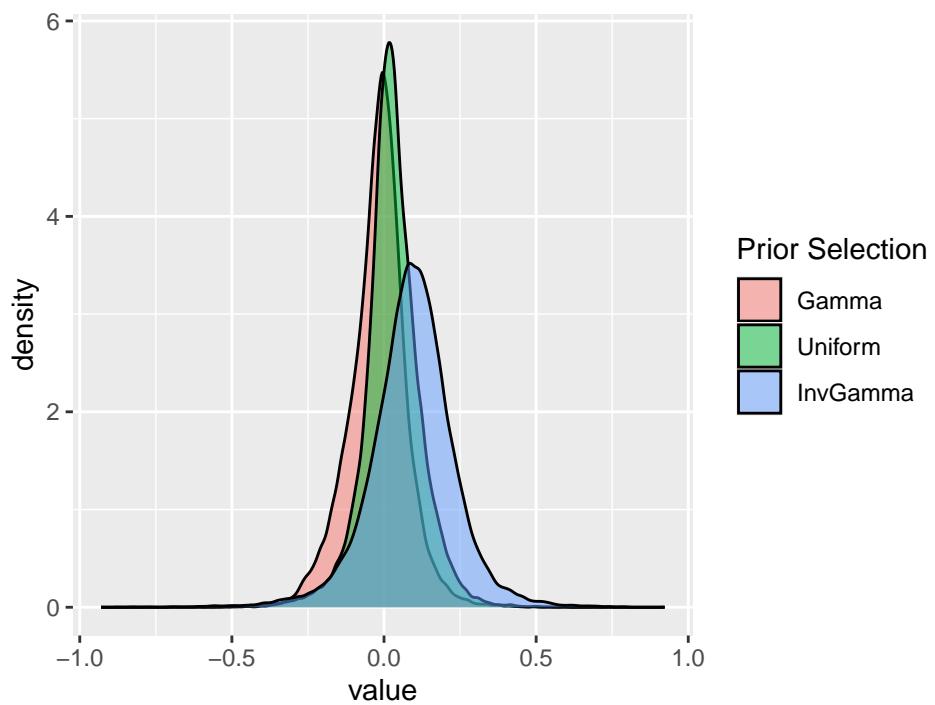
Posterior Density Plot of betaR3[20]



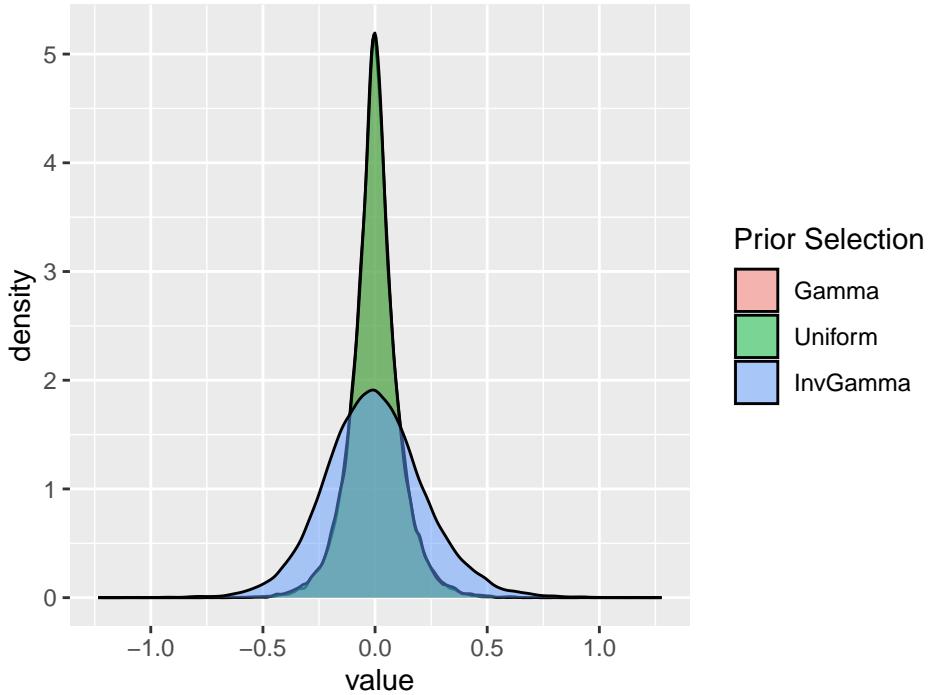
Posterior Density Plot of betaR3[21]



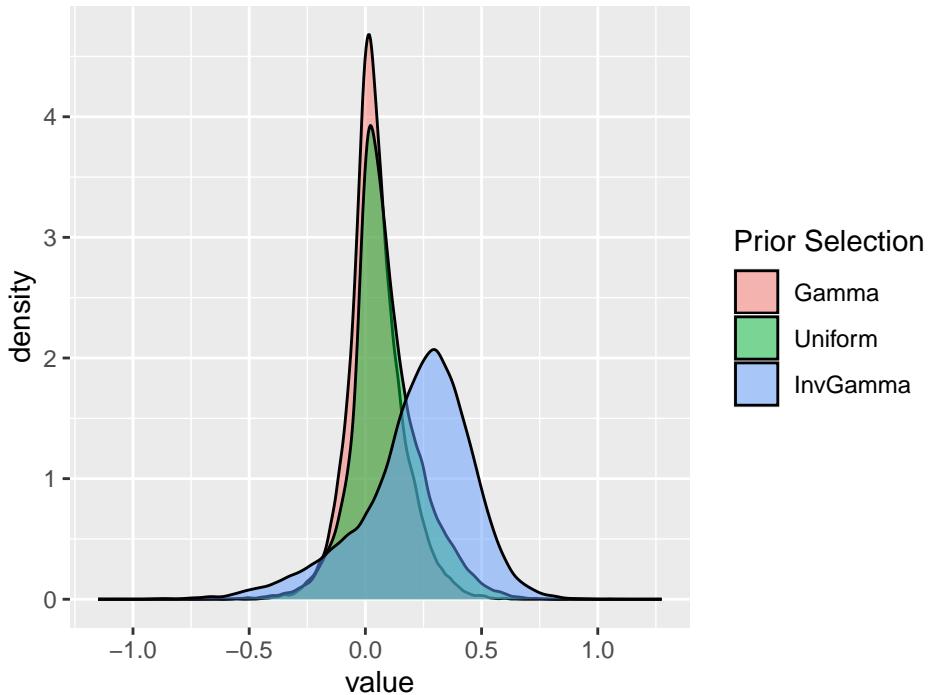
Posterior Density Plot of betaR3[22]



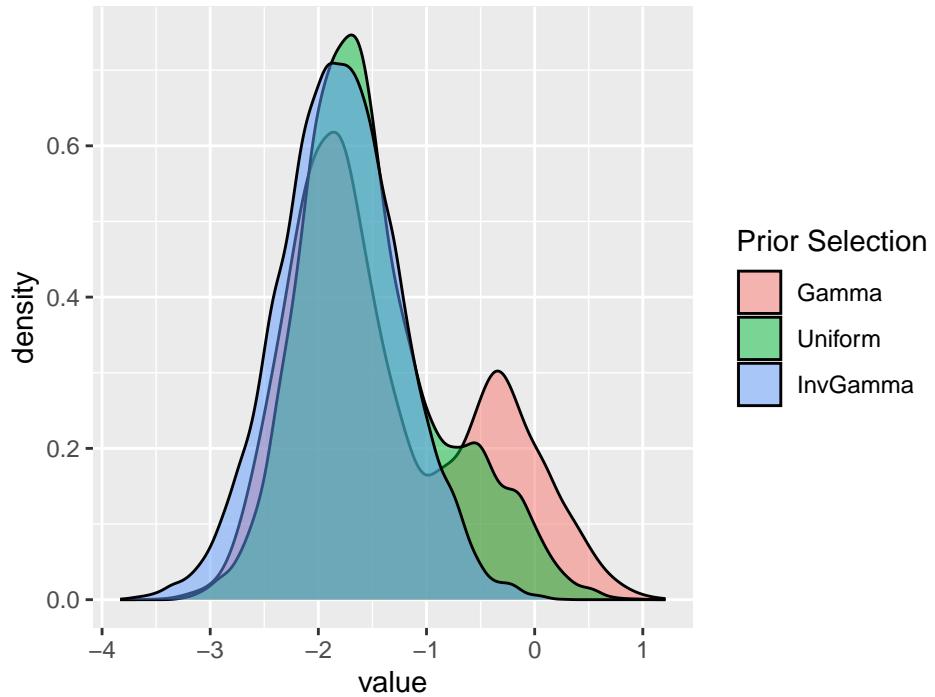
Posterior Density Plot of betaR3[23]



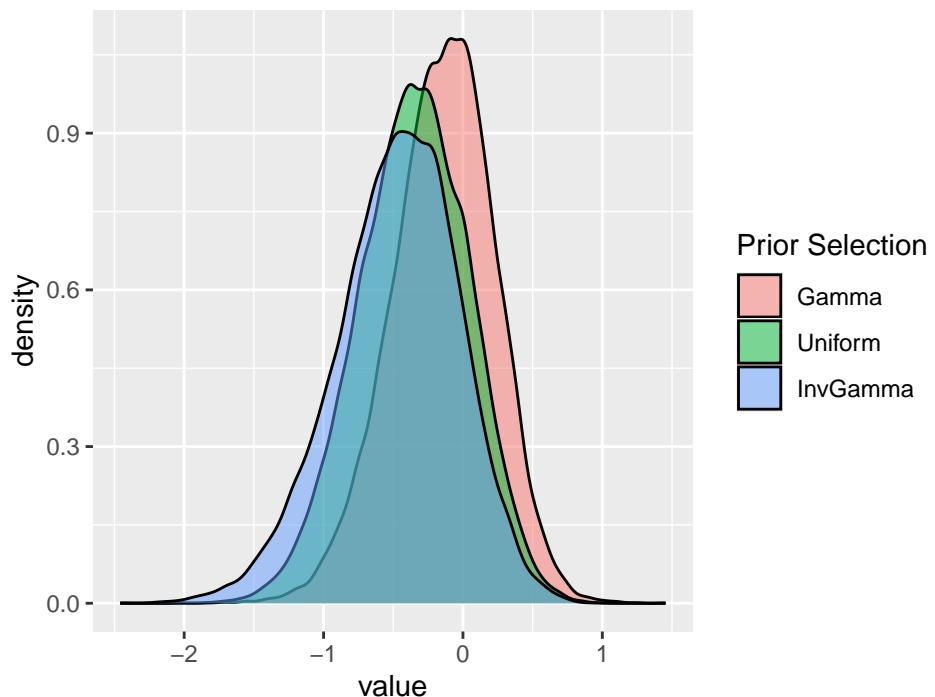
Posterior Density Plot of betaR3[24]



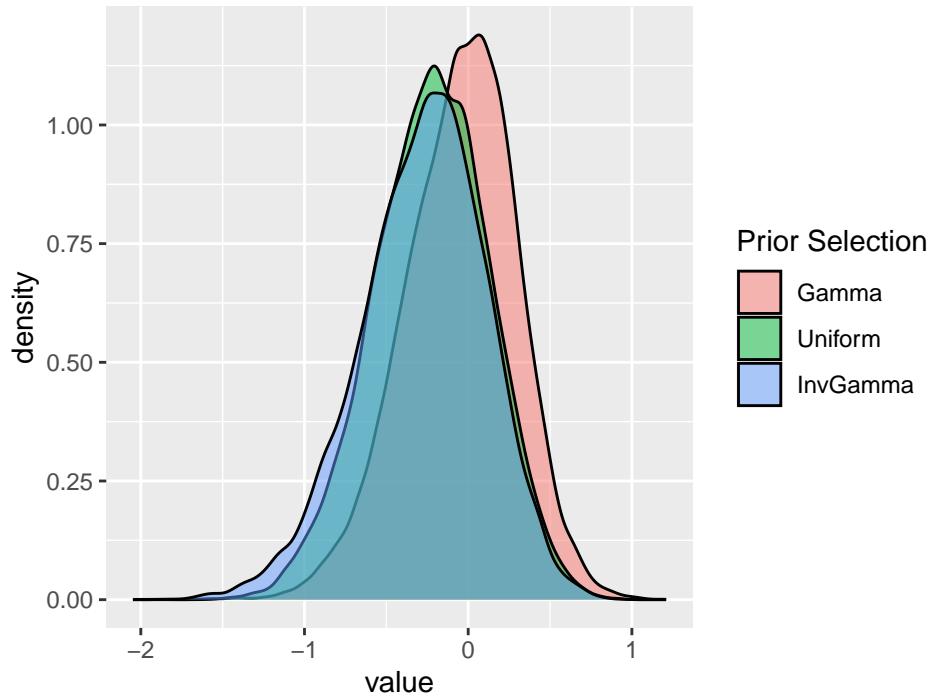
Posterior Density Plot of alphaR1[1]



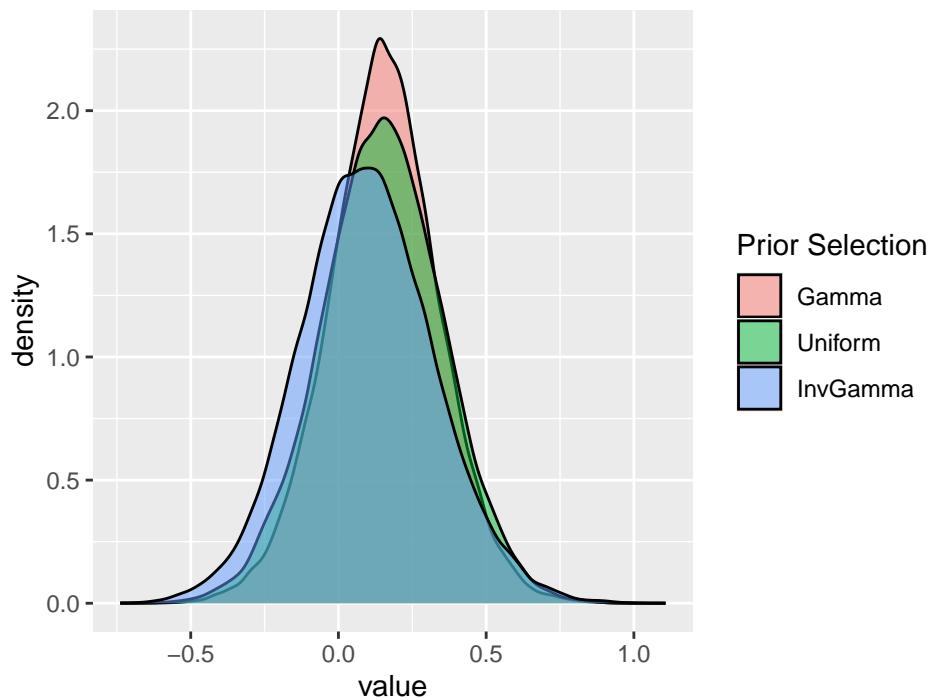
Posterior Density Plot of alphaR1[2]



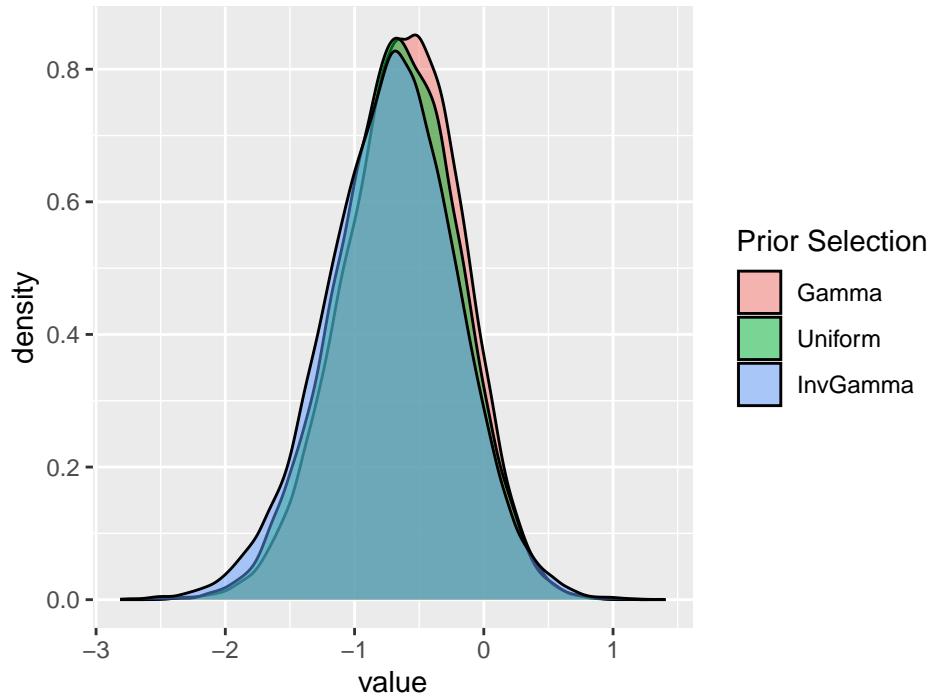
Posterior Density Plot of alphaR1[3]



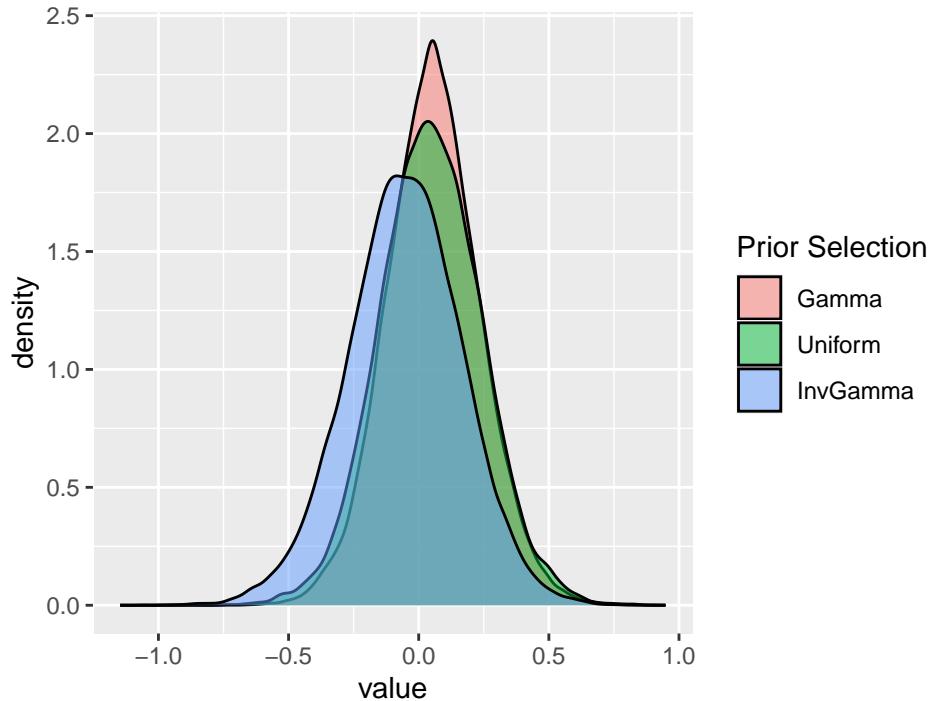
Posterior Density Plot of alphaR1[4]



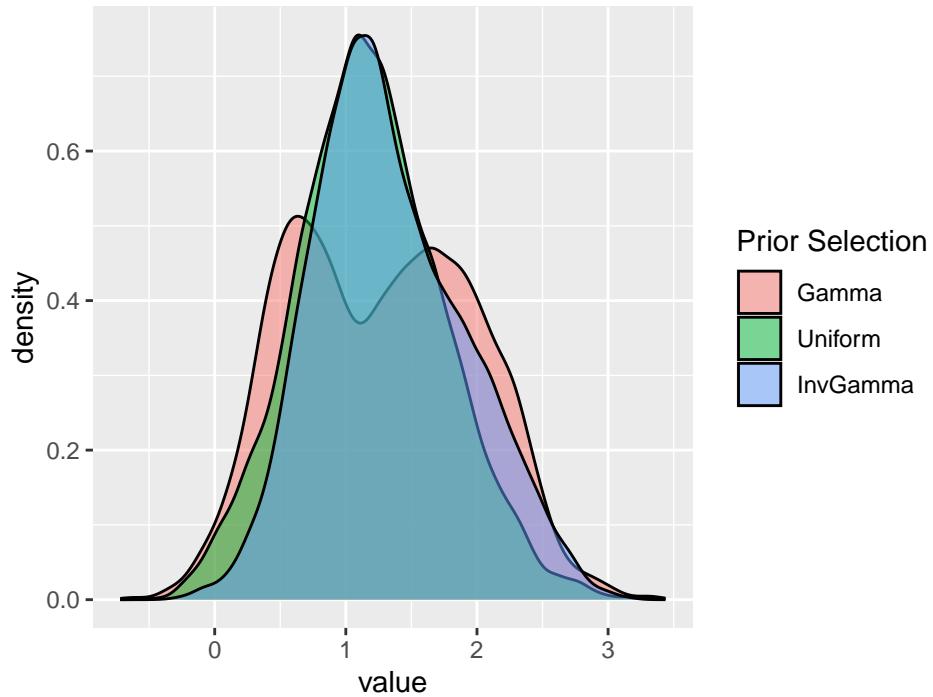
Posterior Density Plot of alphaR1[5]



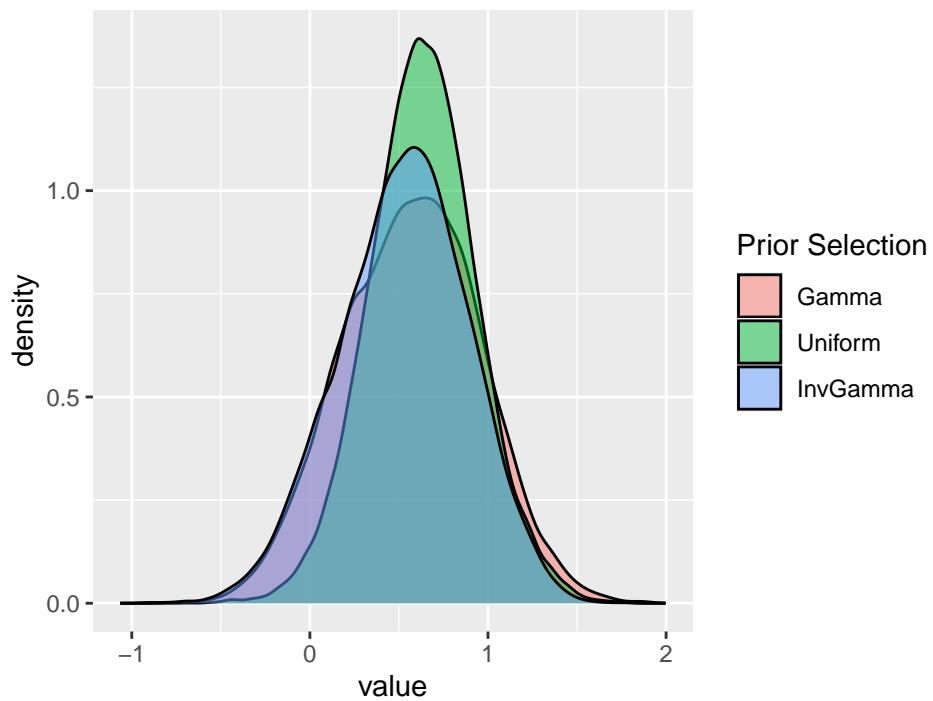
Posterior Density Plot of alphaR1[6]



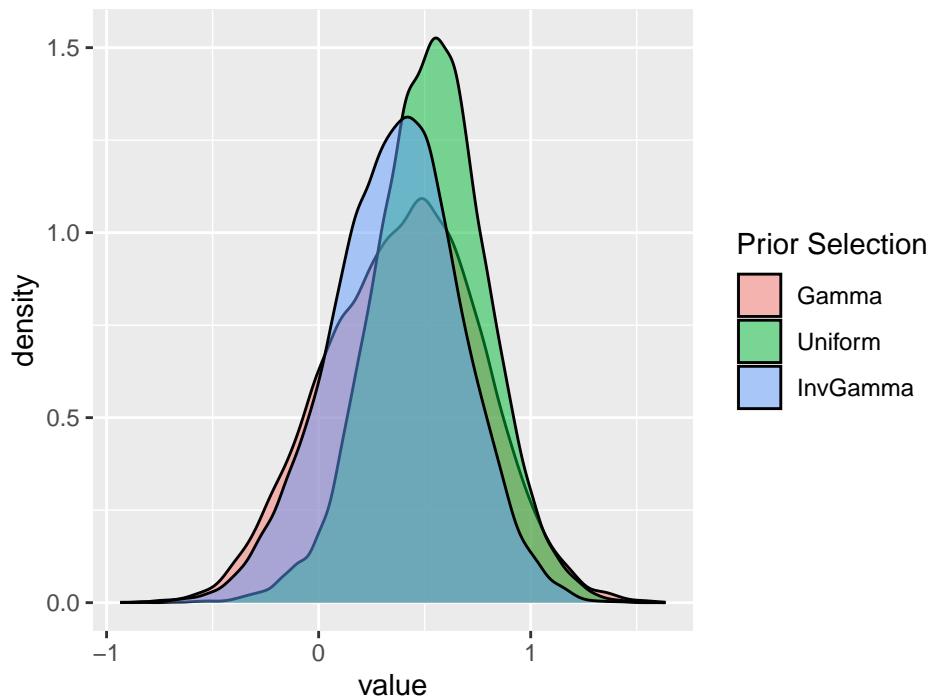
Posterior Density Plot of alphaR2[1]



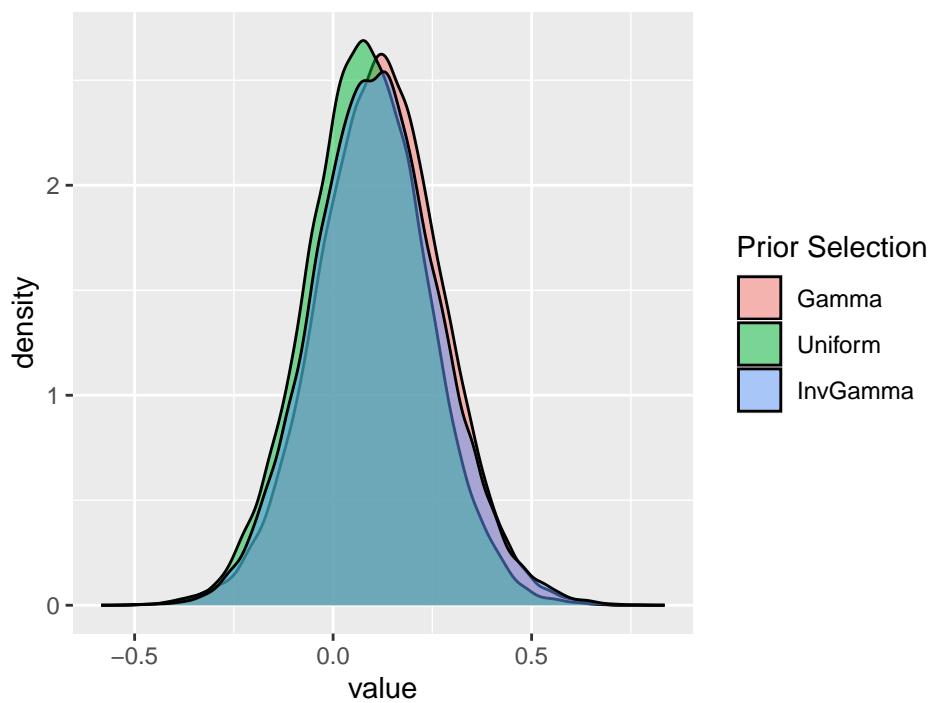
Posterior Density Plot of alphaR2[2]



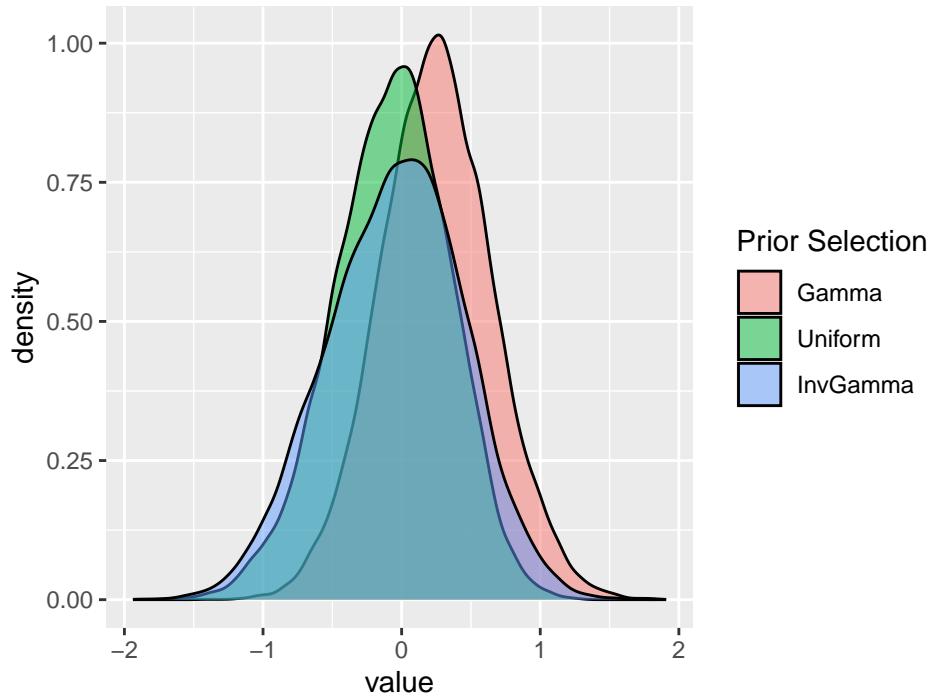
Posterior Density Plot of alphaR2[3]



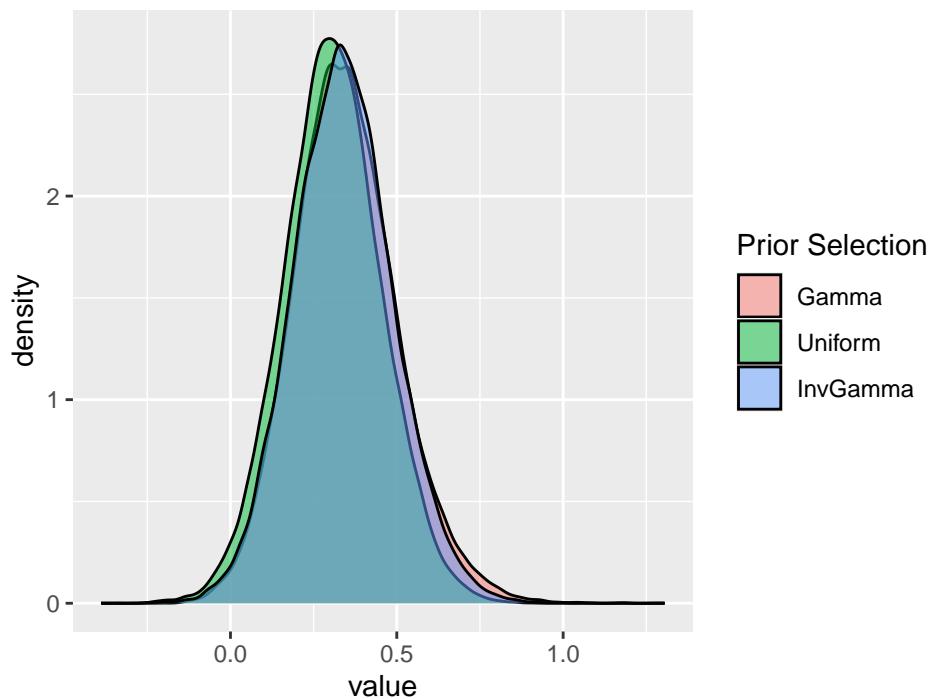
Posterior Density Plot of alphaR2[4]



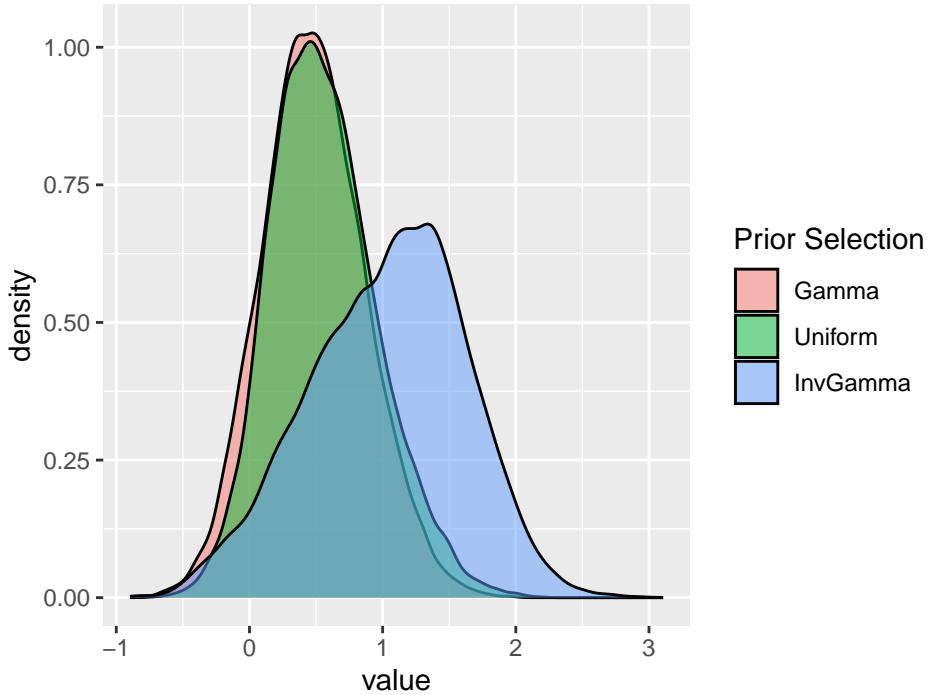
Posterior Density Plot of alphaR2[5]



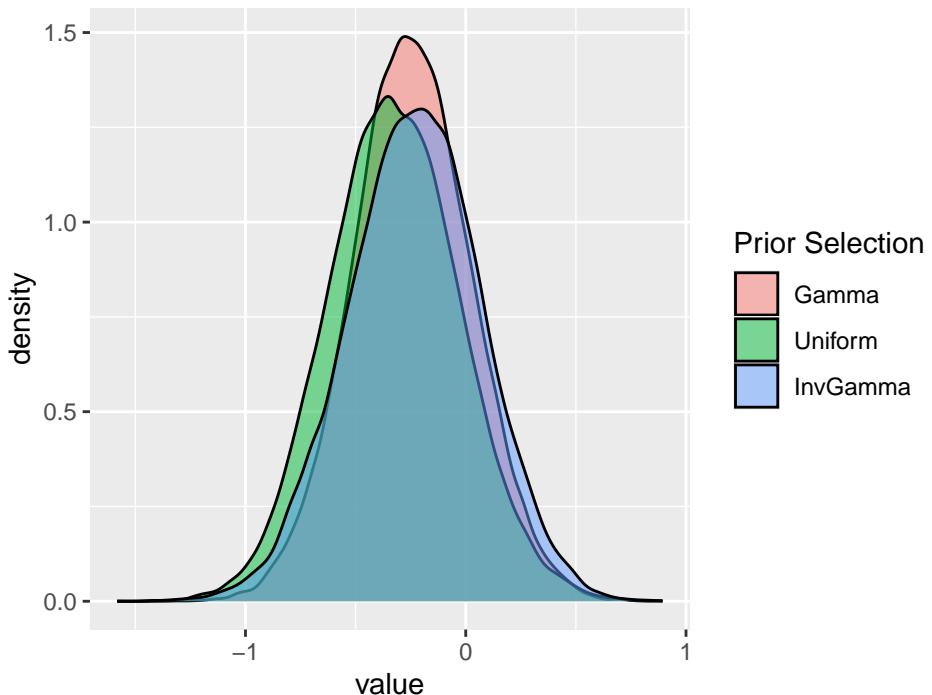
Posterior Density Plot of alphaR2[6]



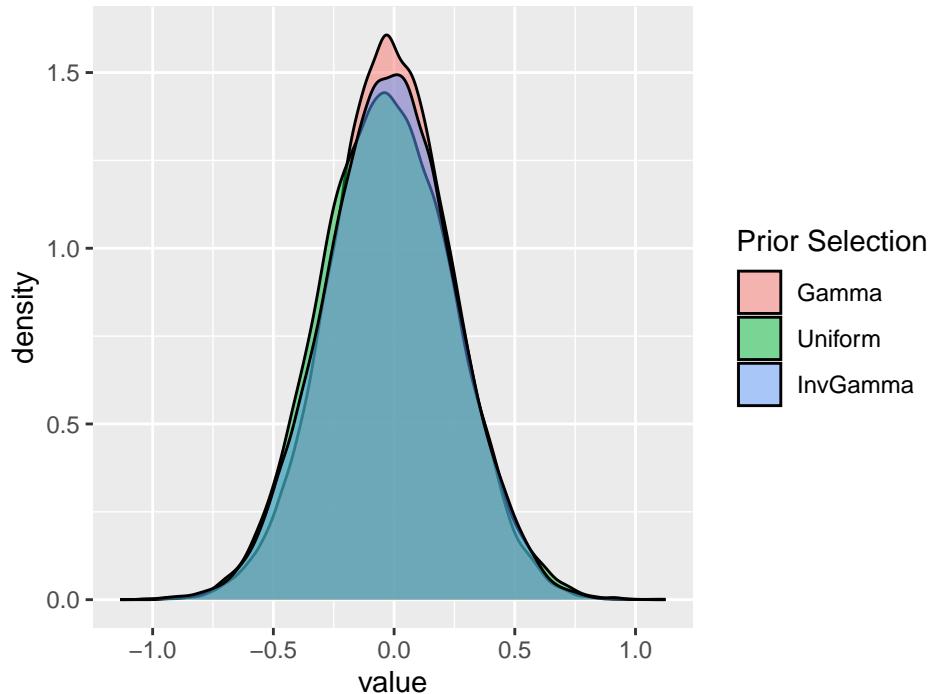
Posterior Density Plot of alphaR3[1]



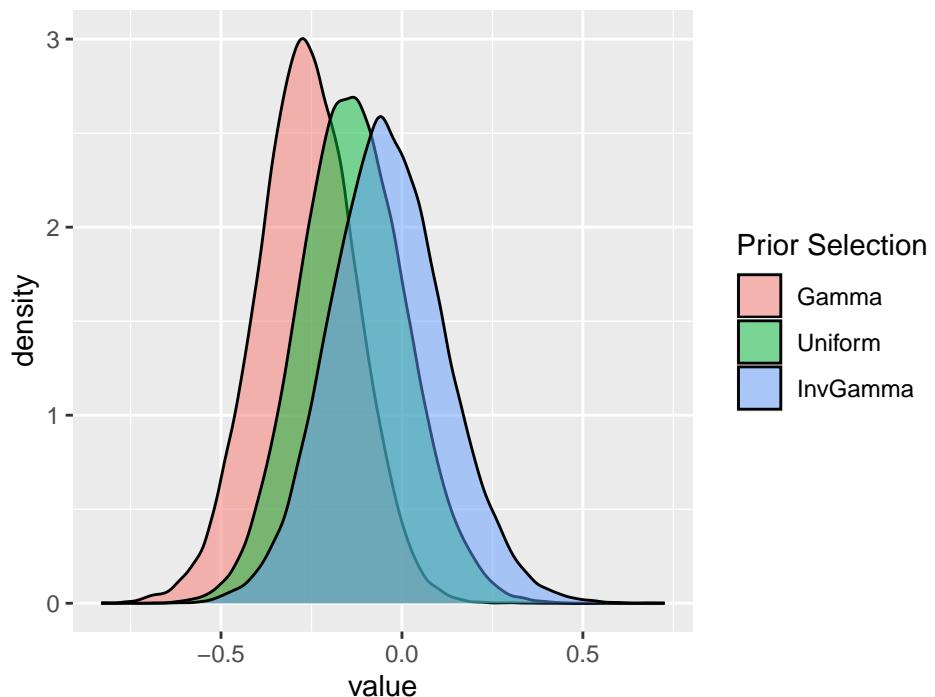
Posterior Density Plot of alphaR3[2]



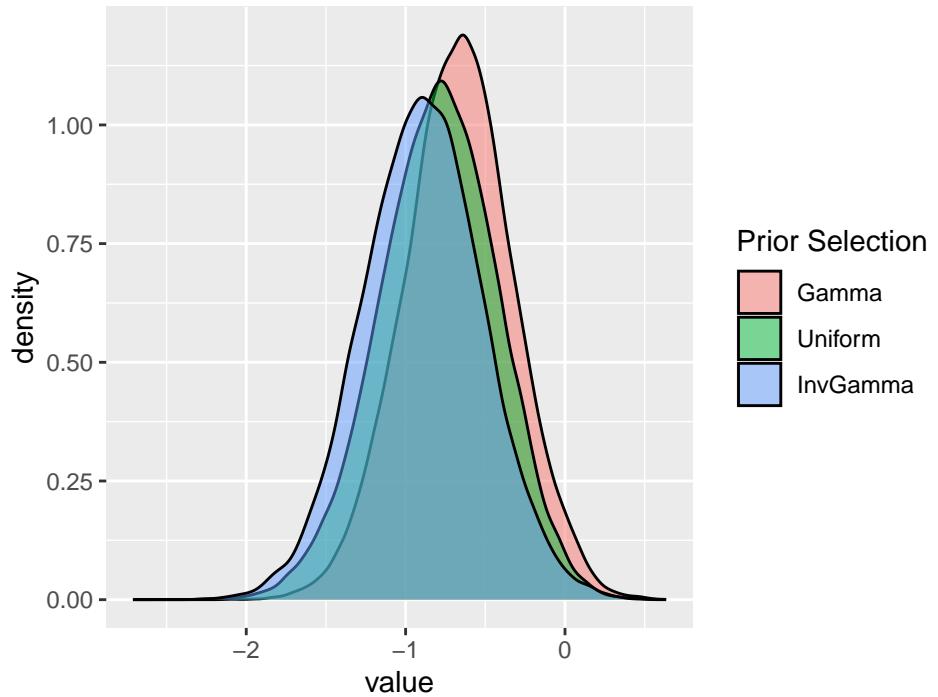
Posterior Density Plot of alphaR3[3]



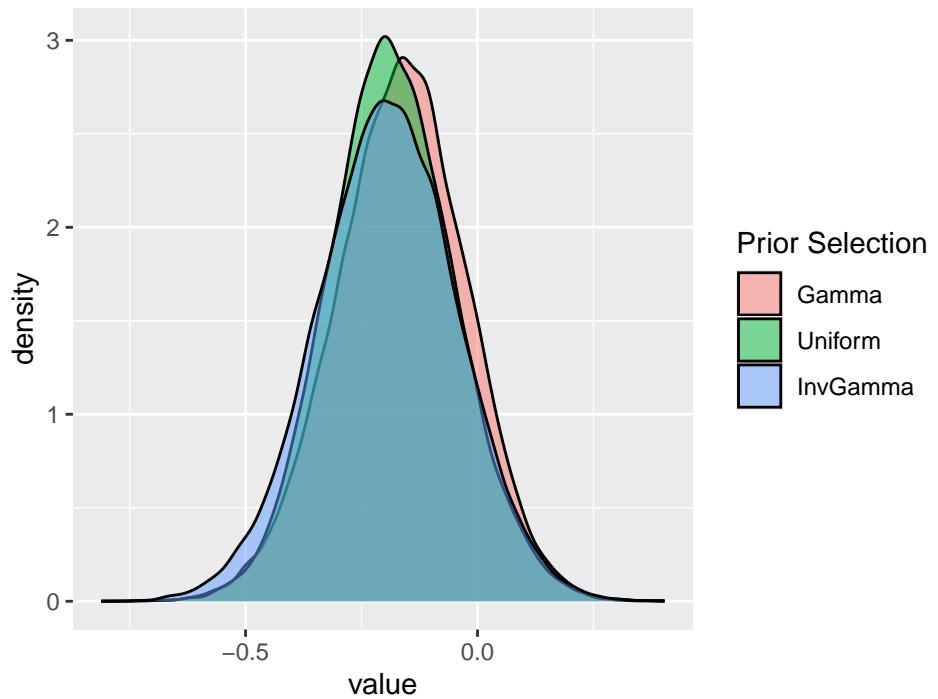
Posterior Density Plot of alphaR3[4]



Posterior Density Plot of alphaR3[5]

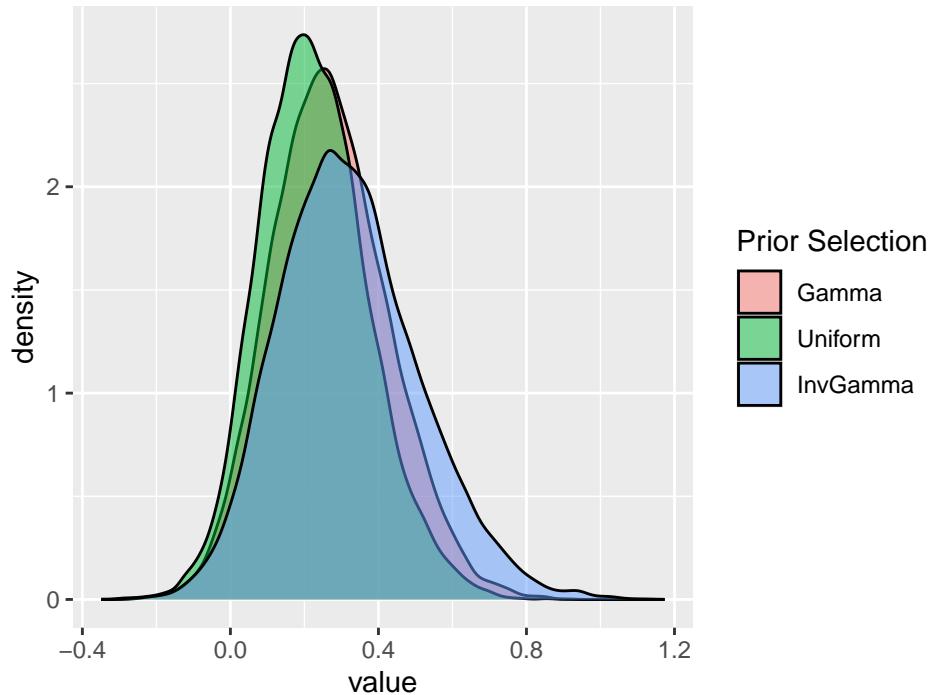


Posterior Density Plot of alphaR3[6]

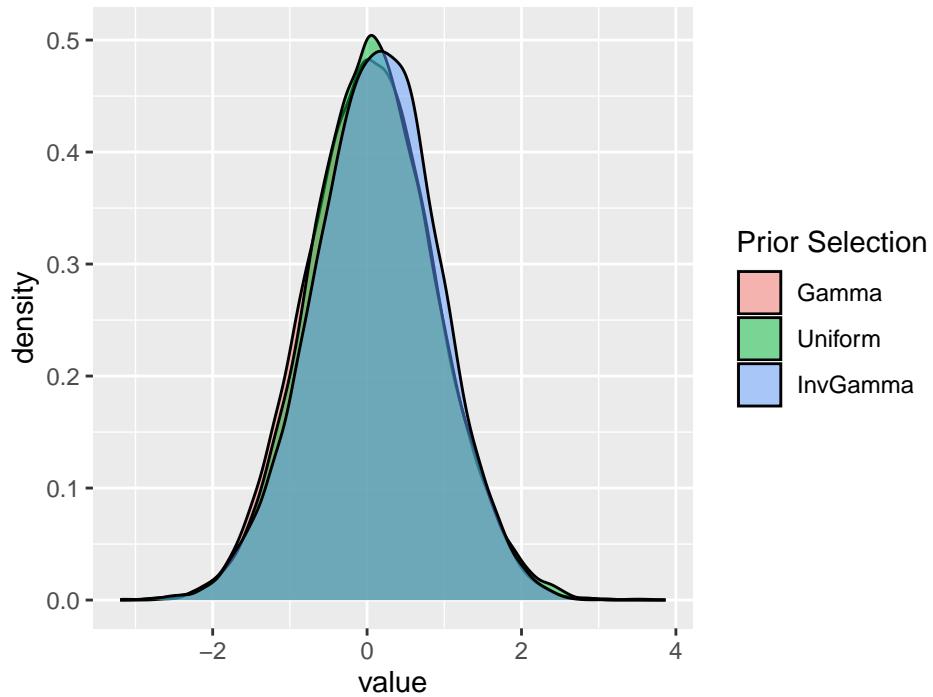


## Hazard (Risk of Death)

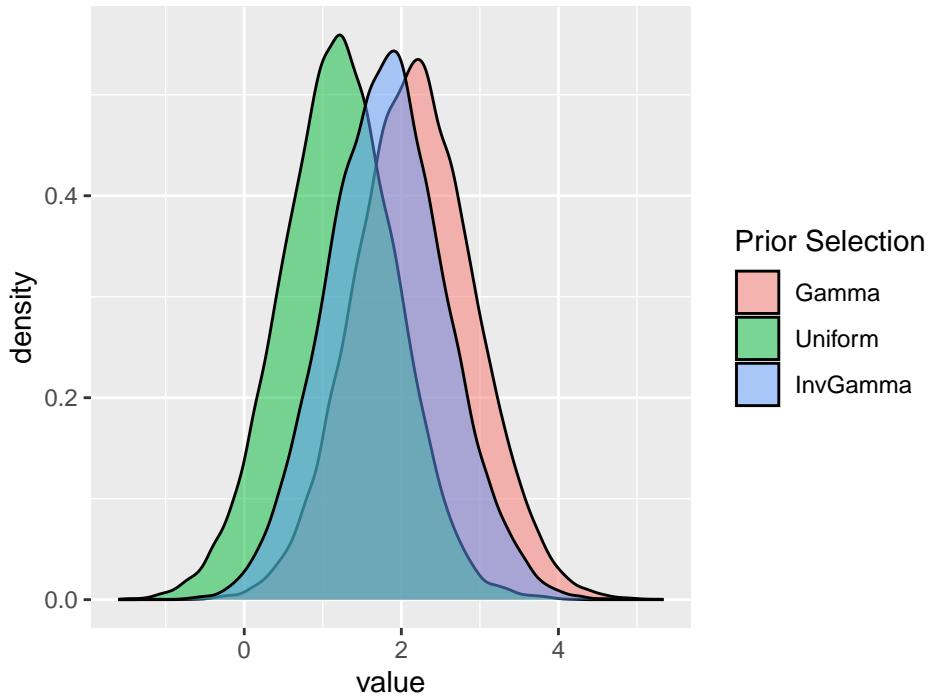
Posterior Density Plot of assoc[1]



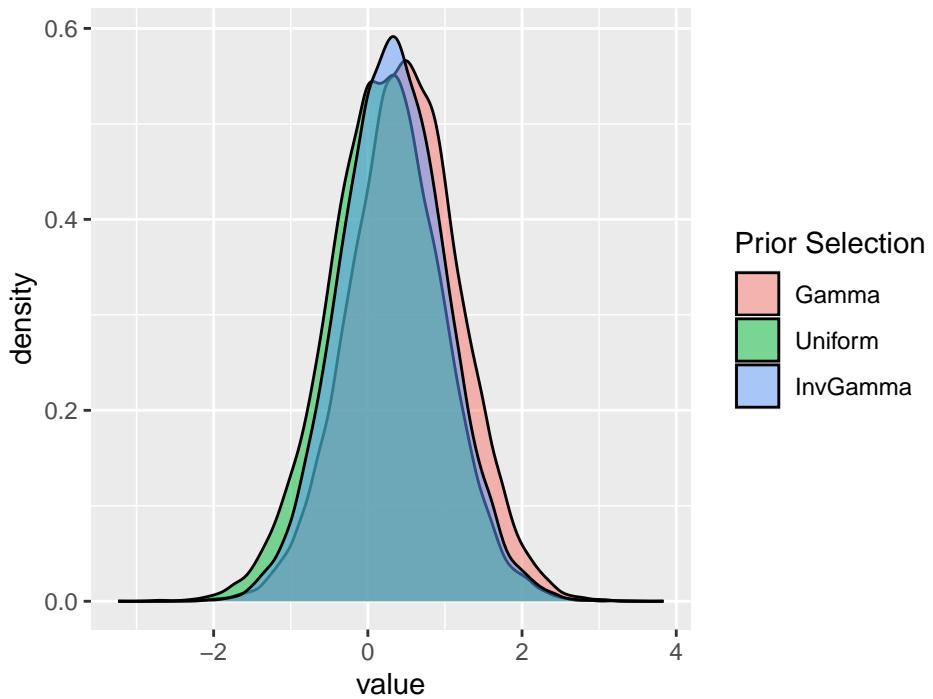
Posterior Density Plot of assoc[2]



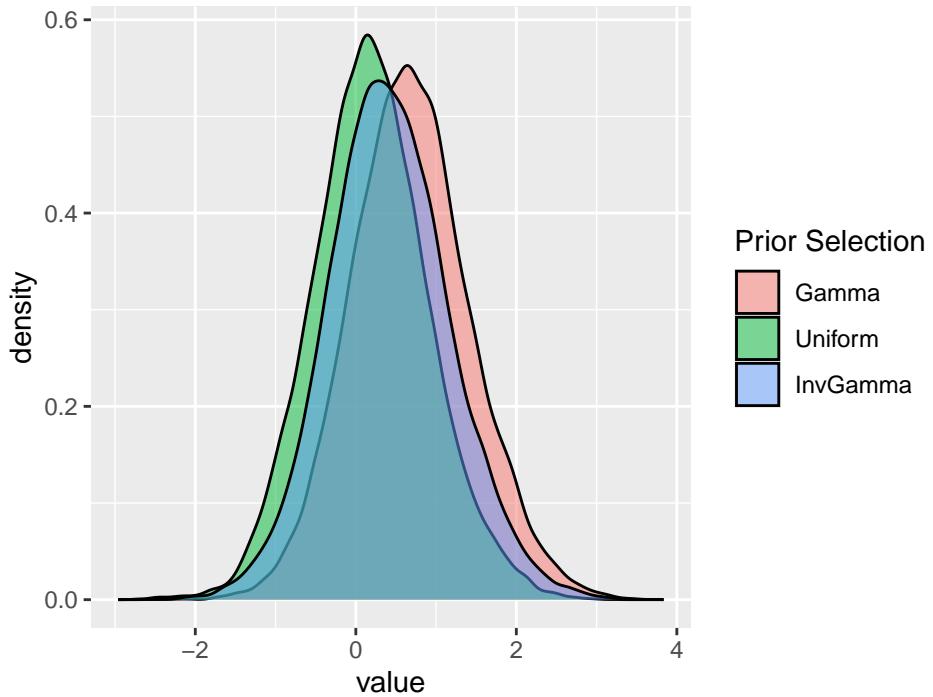
Posterior Density Plot of assoc[3]



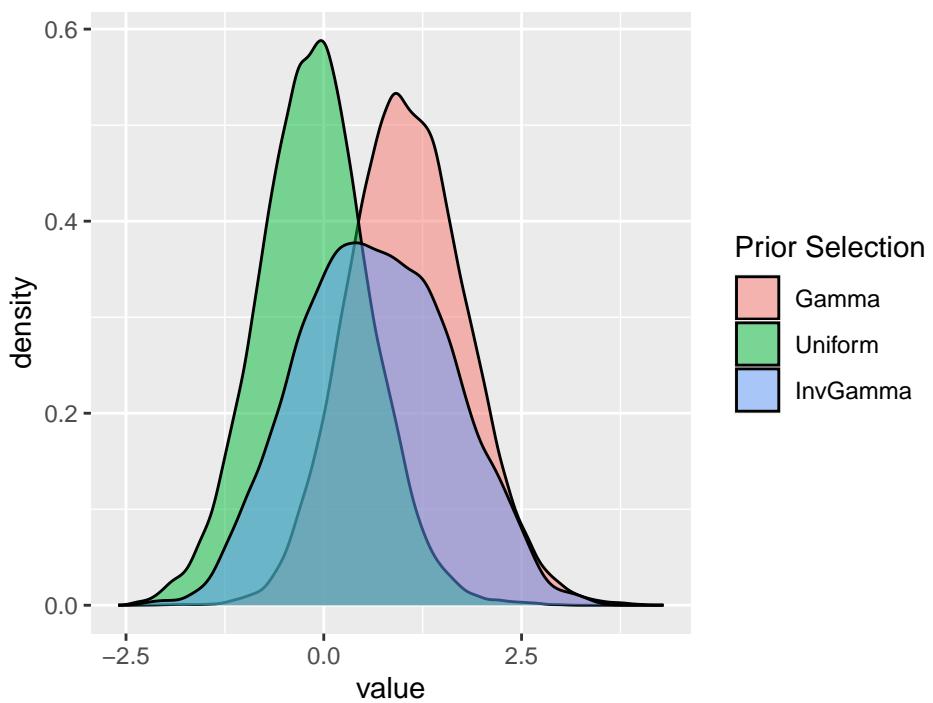
Posterior Density Plot of assoc[4]



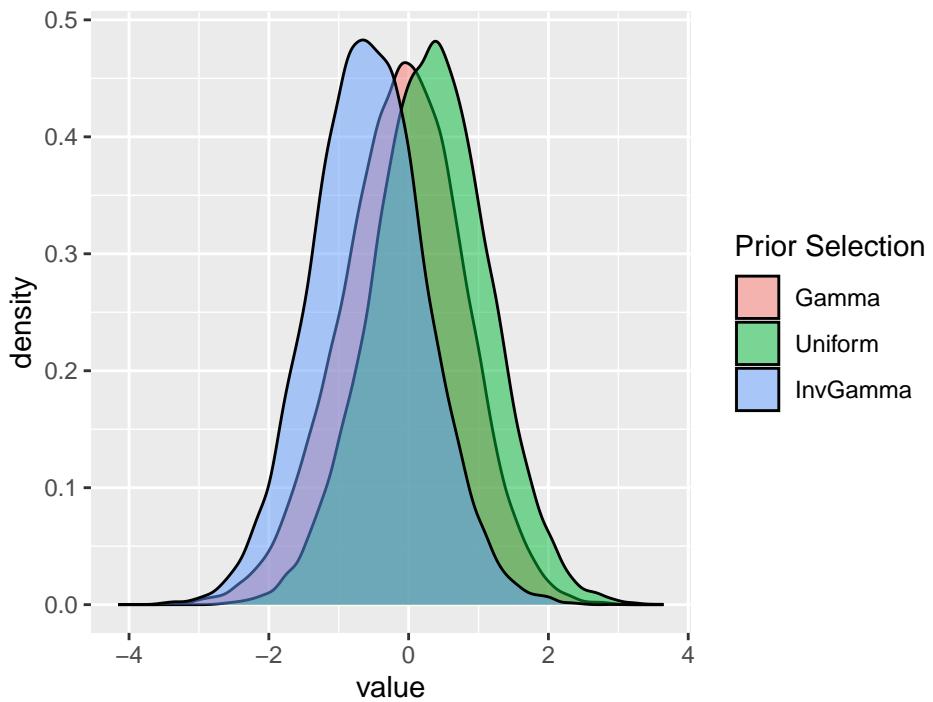
Posterior Density Plot of assoc[5]



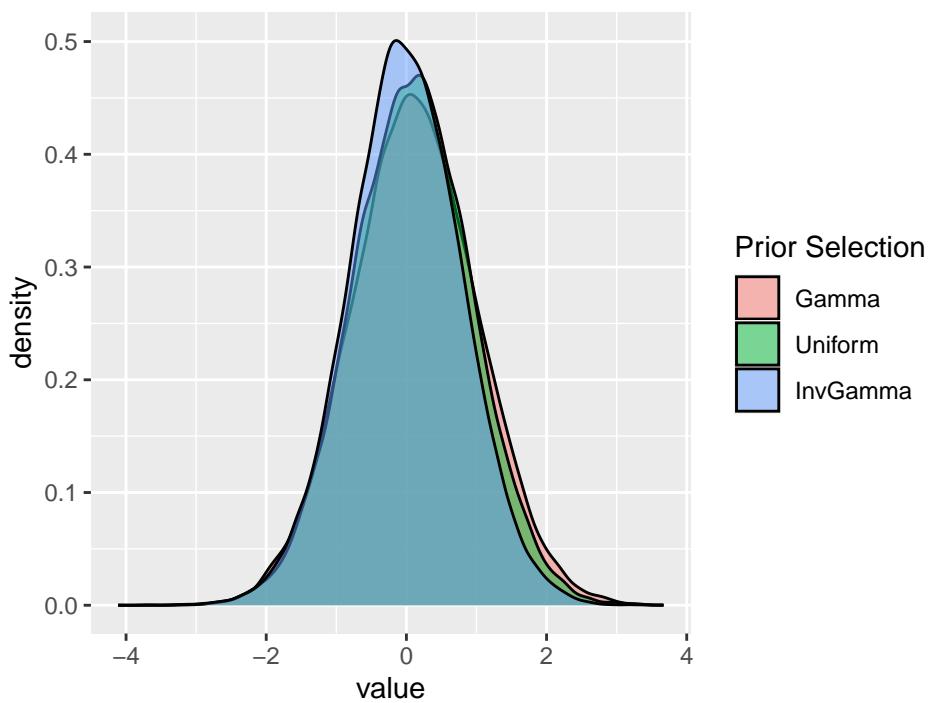
Posterior Density Plot of assoc[6]



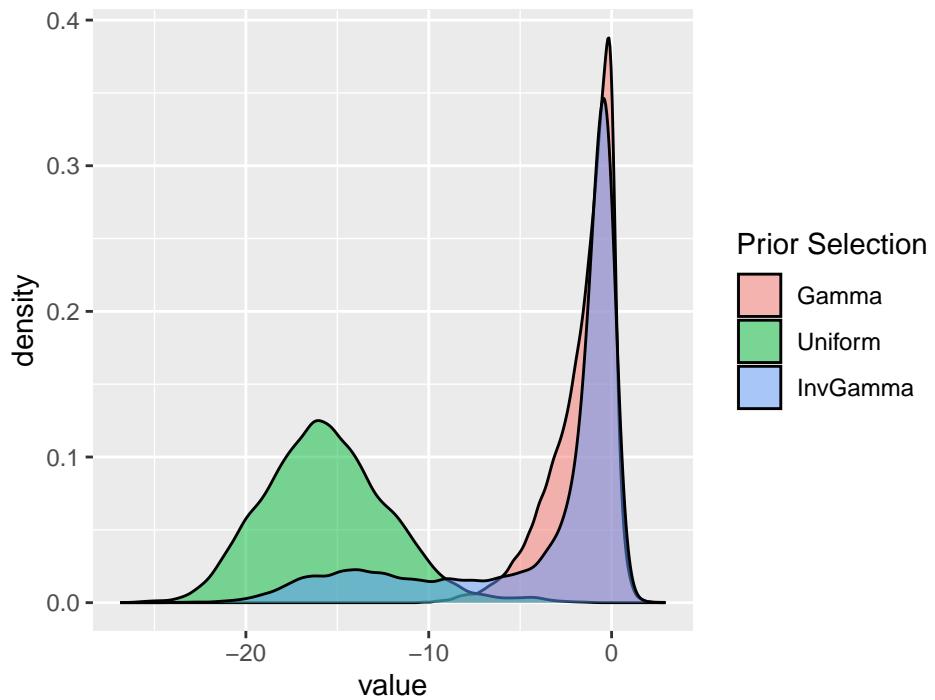
Posterior Density Plot of assoc[7]



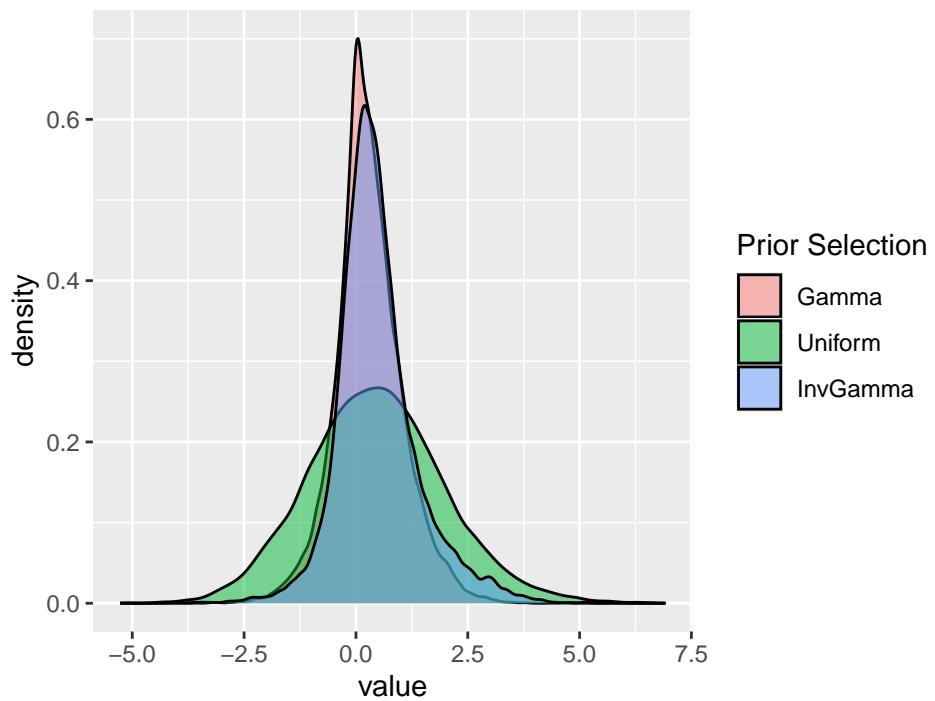
Posterior Density Plot of assoc[8]



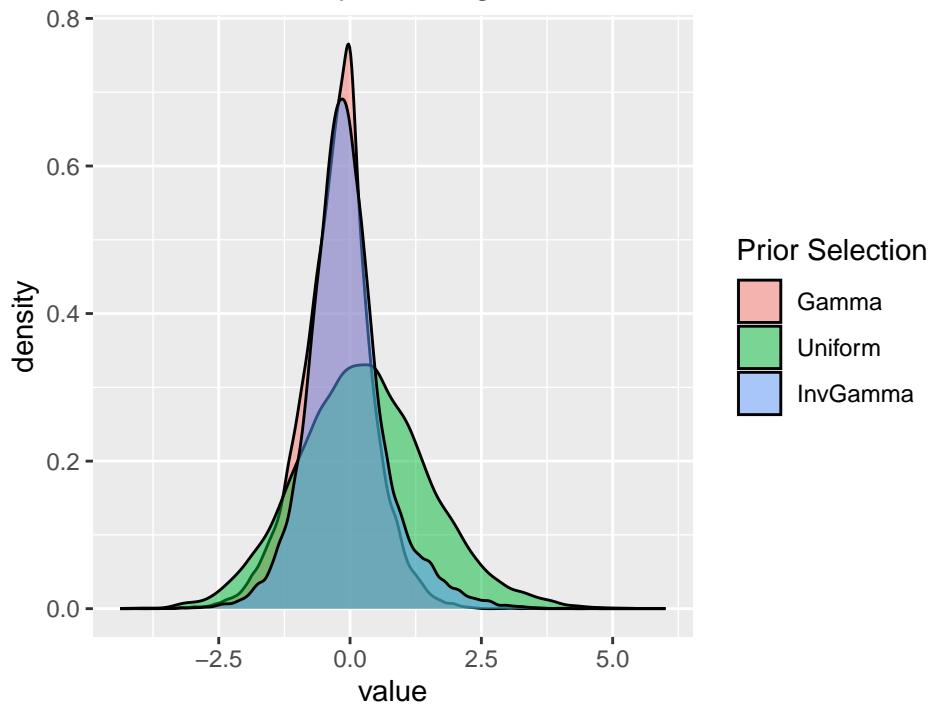
Posterior Density Plot of gammaS[1]



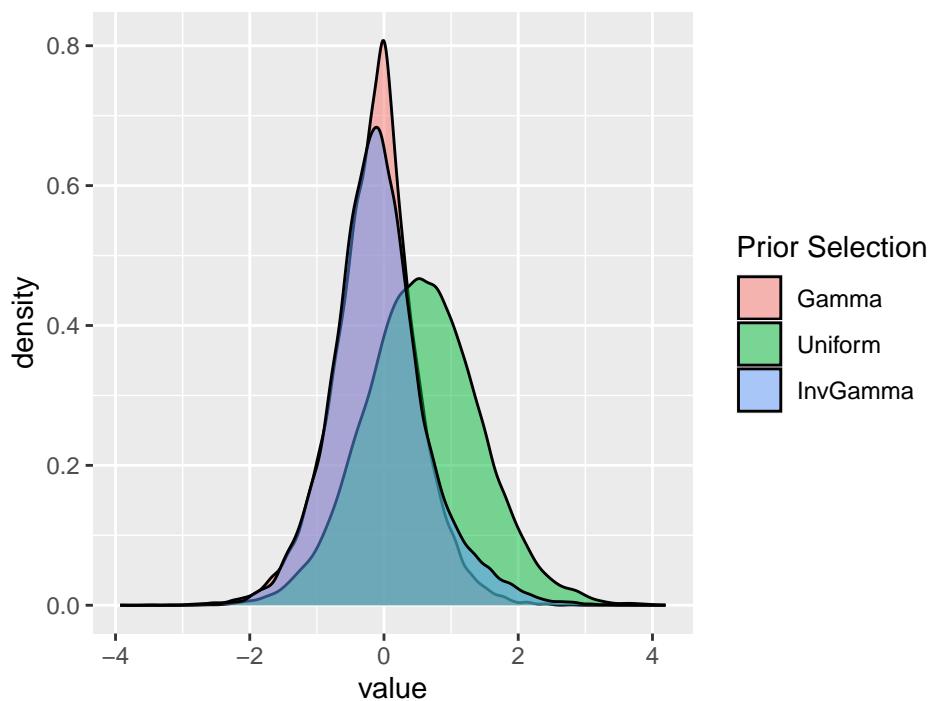
Posterior Density Plot of gammaS[2]



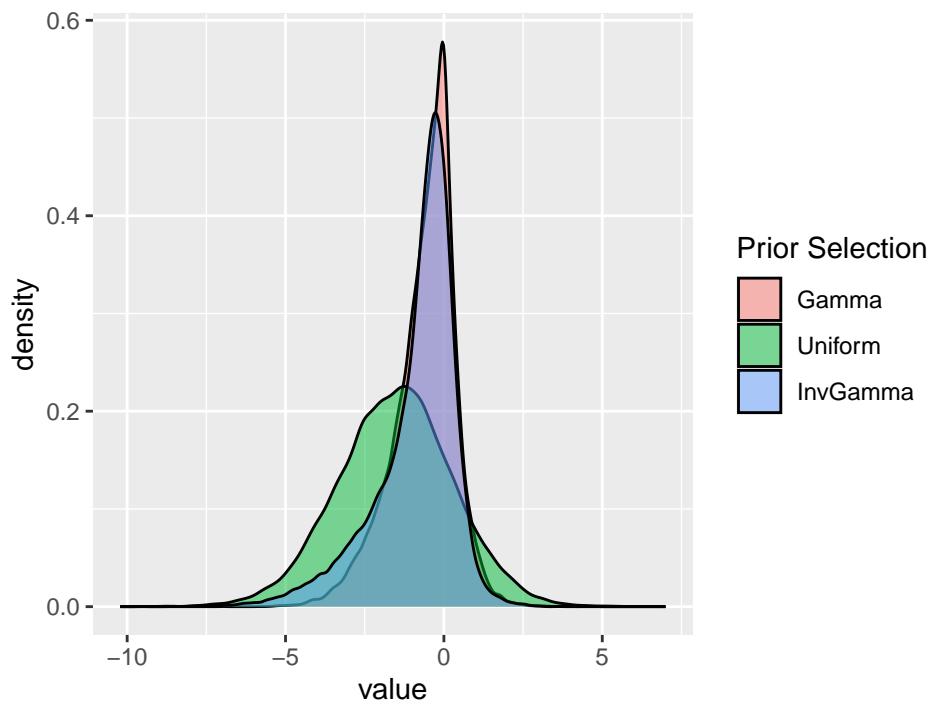
Posterior Density Plot of gammaS[3]



Posterior Density Plot of gammaS[4]



Posterior Density Plot of gammaS[5]



Posterior Density Plot of gammaS[6]

