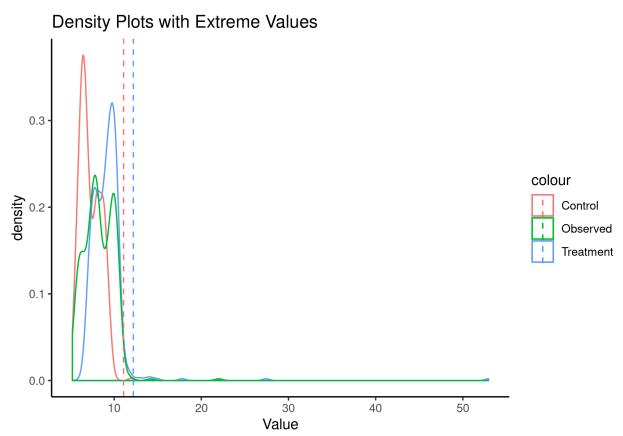
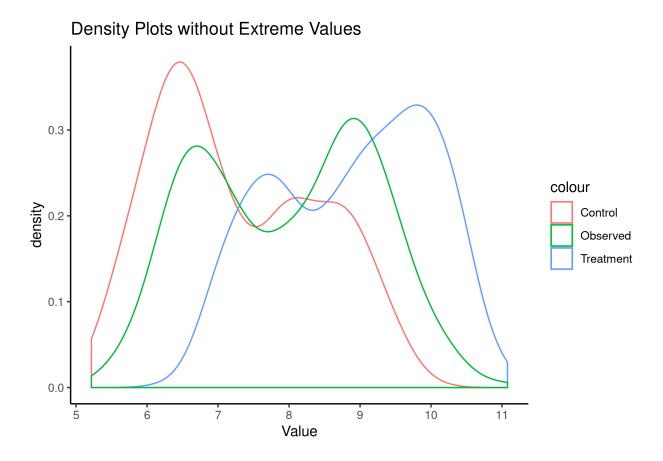
Mixture Model Quantile treatment effect

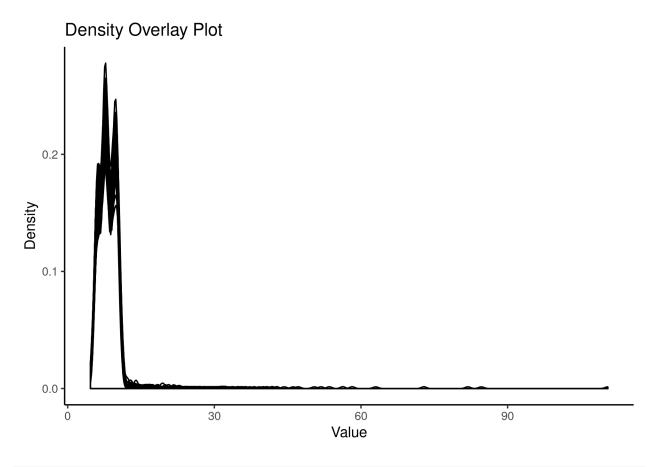
Arnab Aich

2023-10-01

, cache = TRUE







Final\$Treatment\$Mean_Int_Sq_error

[1] 0.01439636

Final\$Treatment\$estimated

\$alpha

[1] 1.457684

\$weights

[1] 0.581764 0.418236

\$mu

[1] 9.792298 7.742443

\$eta

[1] 0.274892 0.330992

Final\$Treatment\$True

\$weights

[1] 0.65 0.35

\$mu

[1] 9.595473 7.547737

\$eta

[1] 0.4 0.4

\$u

u1

12.2035

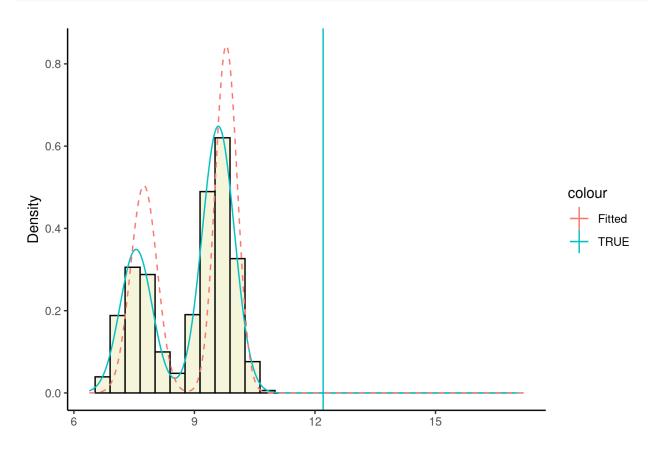
\$sigma

[1] 4

\$xi

[1] 0.3

Final\$Treatment\$True_vs_Fitted



Final\$Treatment\$used_iteration

[1] 250

Final \$Control \$Mean_Int_Sq_error

[1] 0.08659151

Final Control estimated

```
$alpha
[1] 1.246292

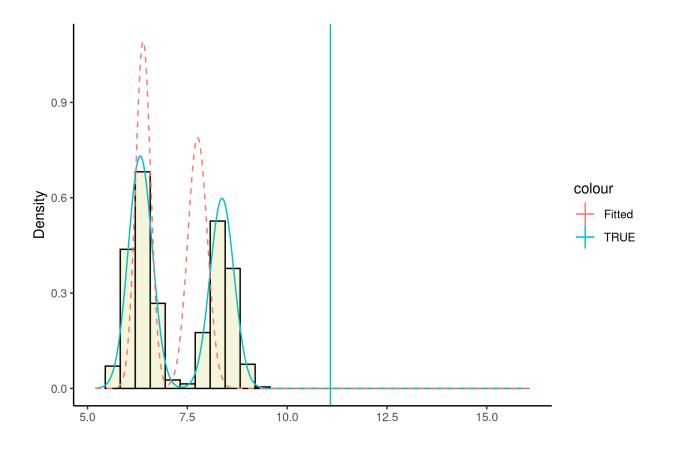
$weights
[1] 0.51742 0.48258

$mu
[1] 6.393487 7.757667

$eta
[1] 0.188852 0.243924
```

Final Control True

Final \$Control \$True_vs_Fitted



Final \$Control \$used_iteration

[1] 250

[[1]]

True Estimated Bias
Treated 6.773863 5.9670042 0.80685927
Control 5.691112 5.6599339 0.03117852
Treatment Effect 1.082751 0.3070703 0.77568074

[[2]]

True Estimated Bias
Treated 7.113162 7.233612 -0.12044995
Control 5.926823 5.848310 0.07851325
Treatment Effect 1.186339 1.385302 -0.19896319

[[3]]

True Estimated Bias
Treated 9.297995 9.584065 -0.2860705
Control 6.703454 6.550580 0.1528731
Treatment Effect 2.594541 3.033485 -0.4389436

[[4]]

True Estimated Bias
Treated 10.169067 10.288799 -0.1197324

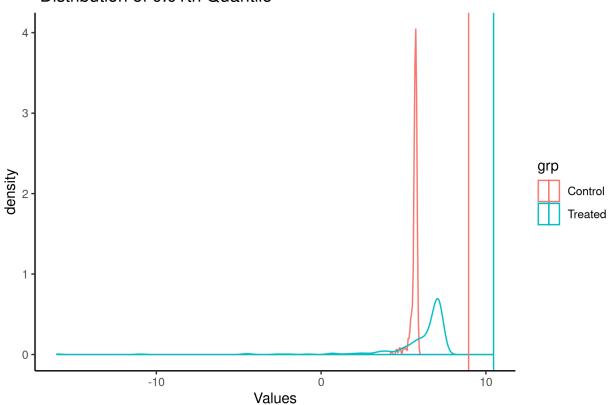
Control 8.717604 8.350278 0.3673260 Treatment Effect 1.451463 1.938521 -0.4870584

[[5]]

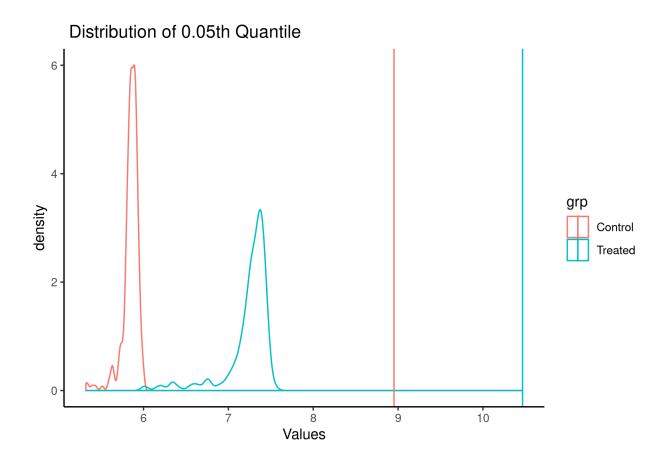
True Estimated Bias
Treated 10.466656 11.490140 -1.0234844
Control 8.952089 8.615428 0.3366616
Treatment Effect 1.514567 2.874713 -1.3601460

[[1]]

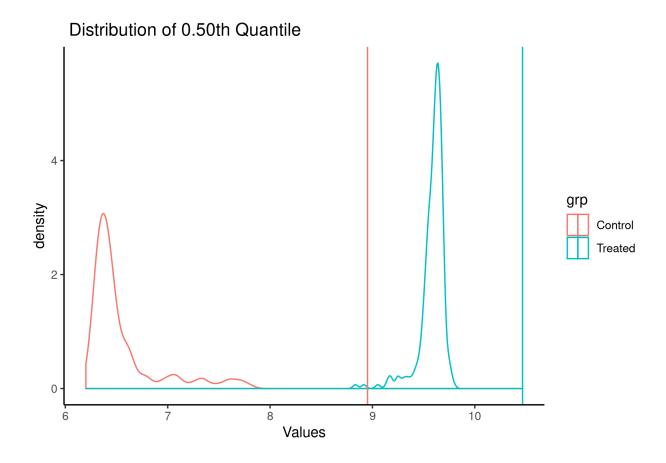
Distribution of 0.01th Quantile



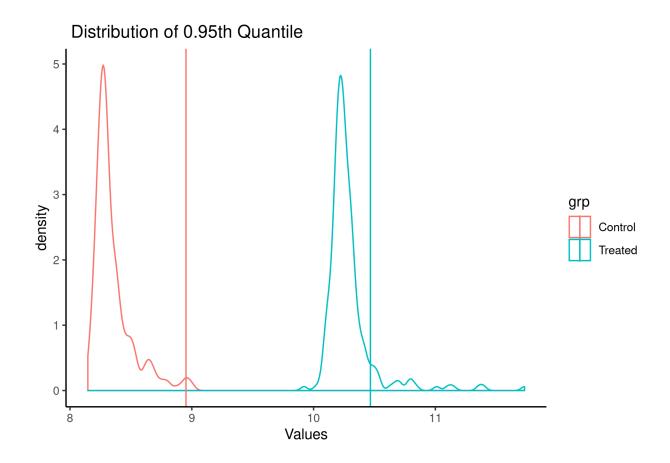
[[2]]



[[3]]



[[4]]



[[5]]

