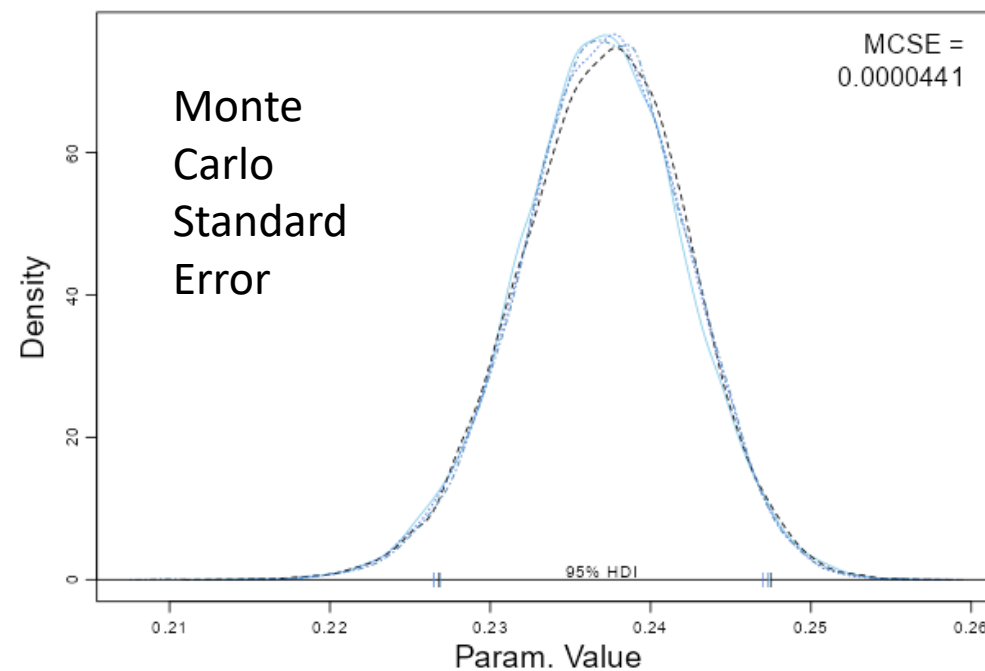
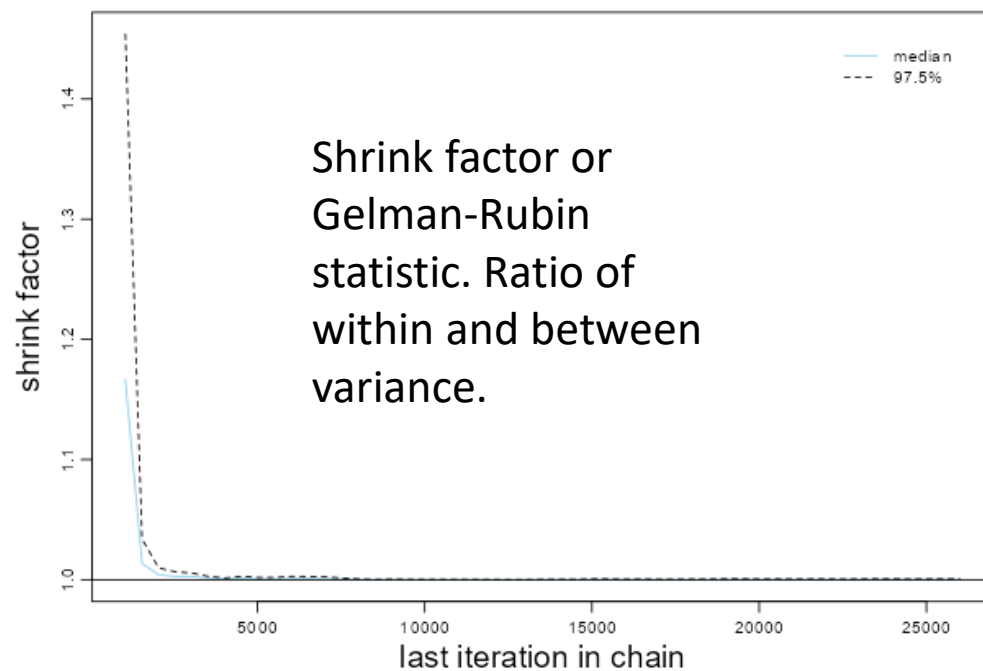
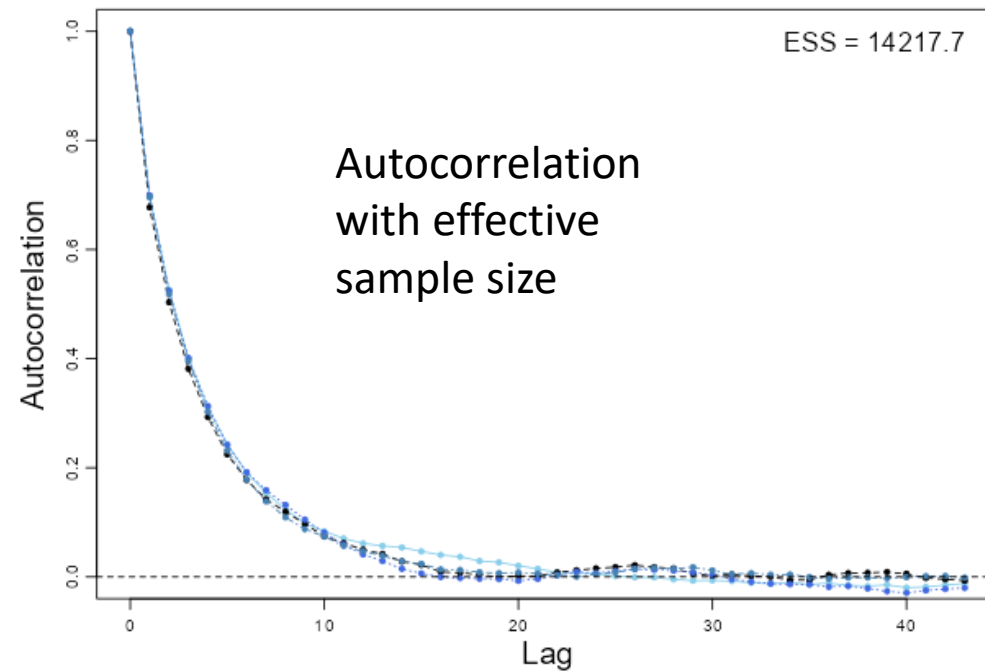
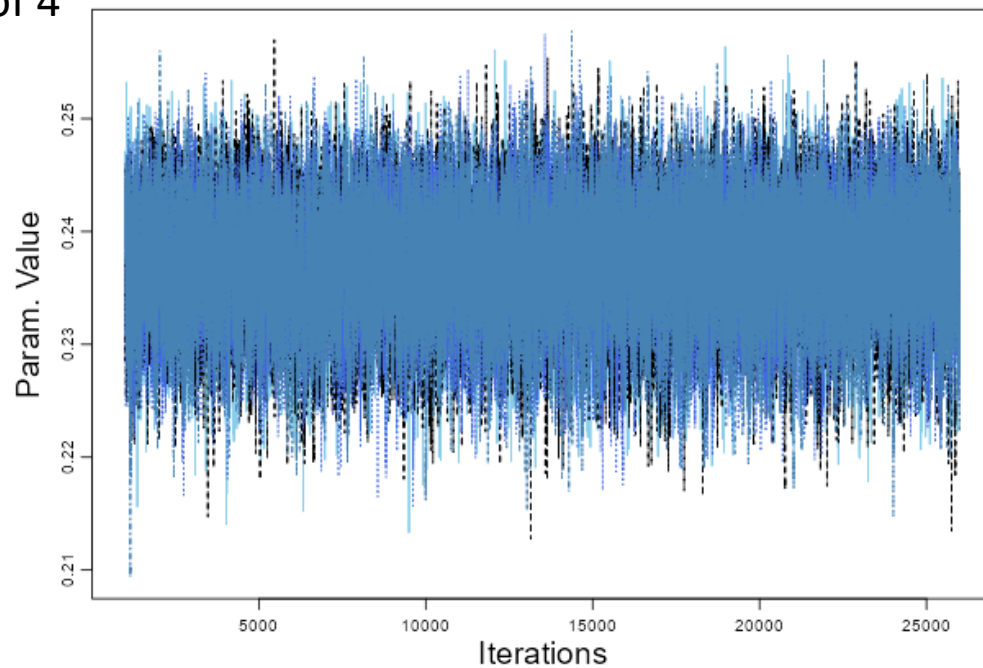


Examples from the Bayesian tab

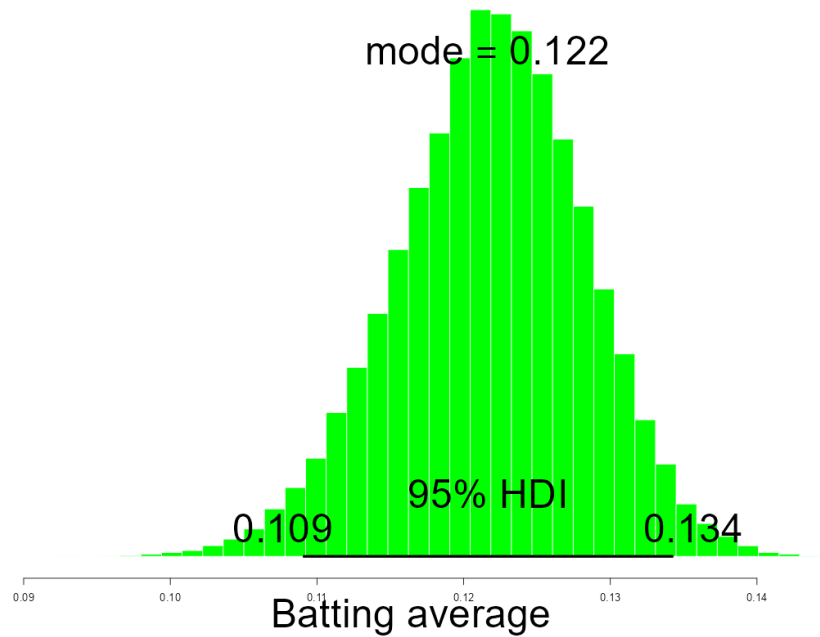
Graphs and output

Trace plots of 4 chains

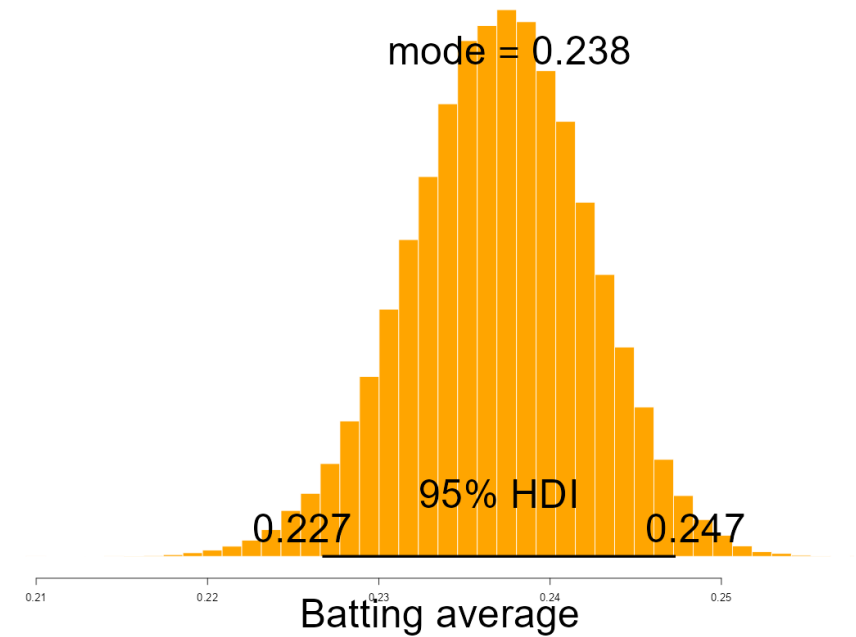
$\omega[4]$



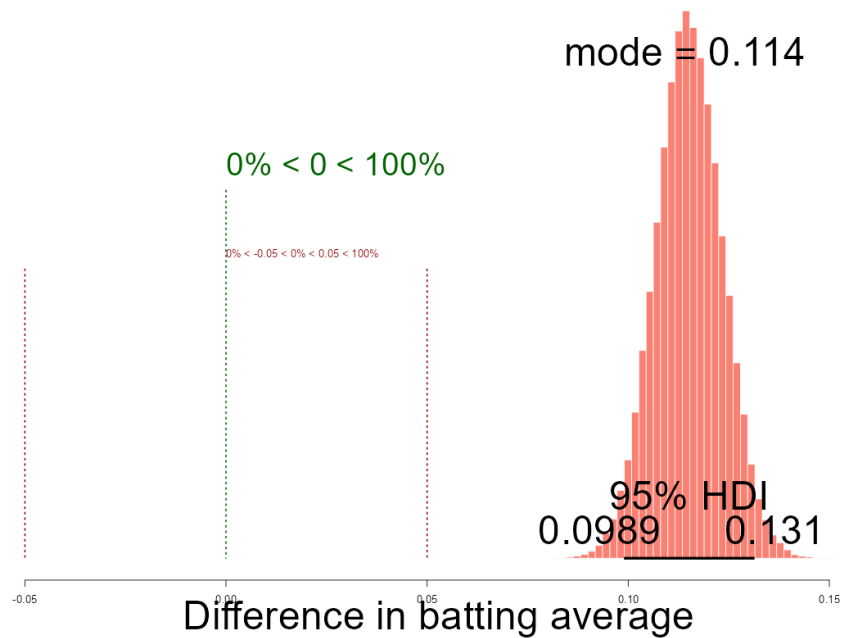
Pitchers



Catchers

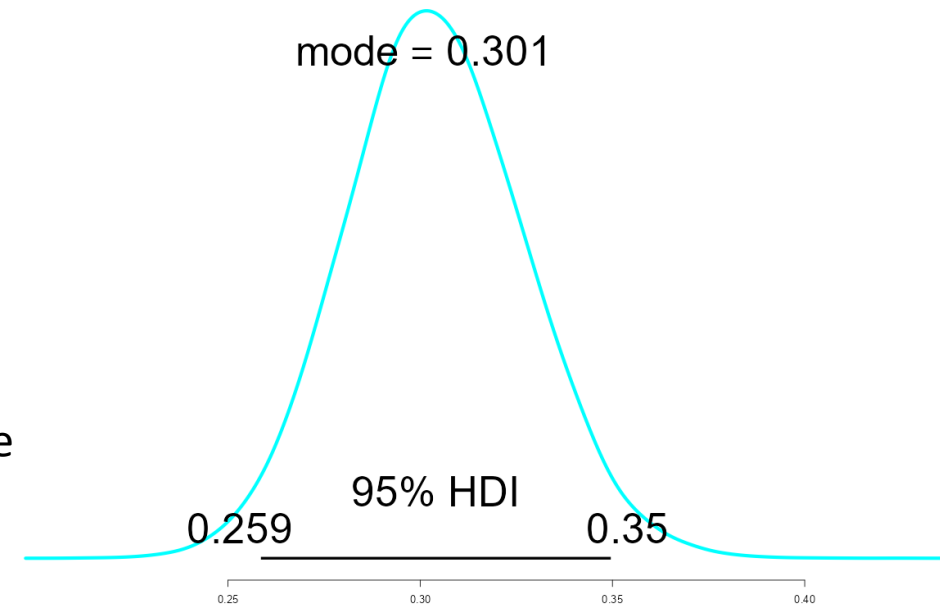


Catchers - Pitchers



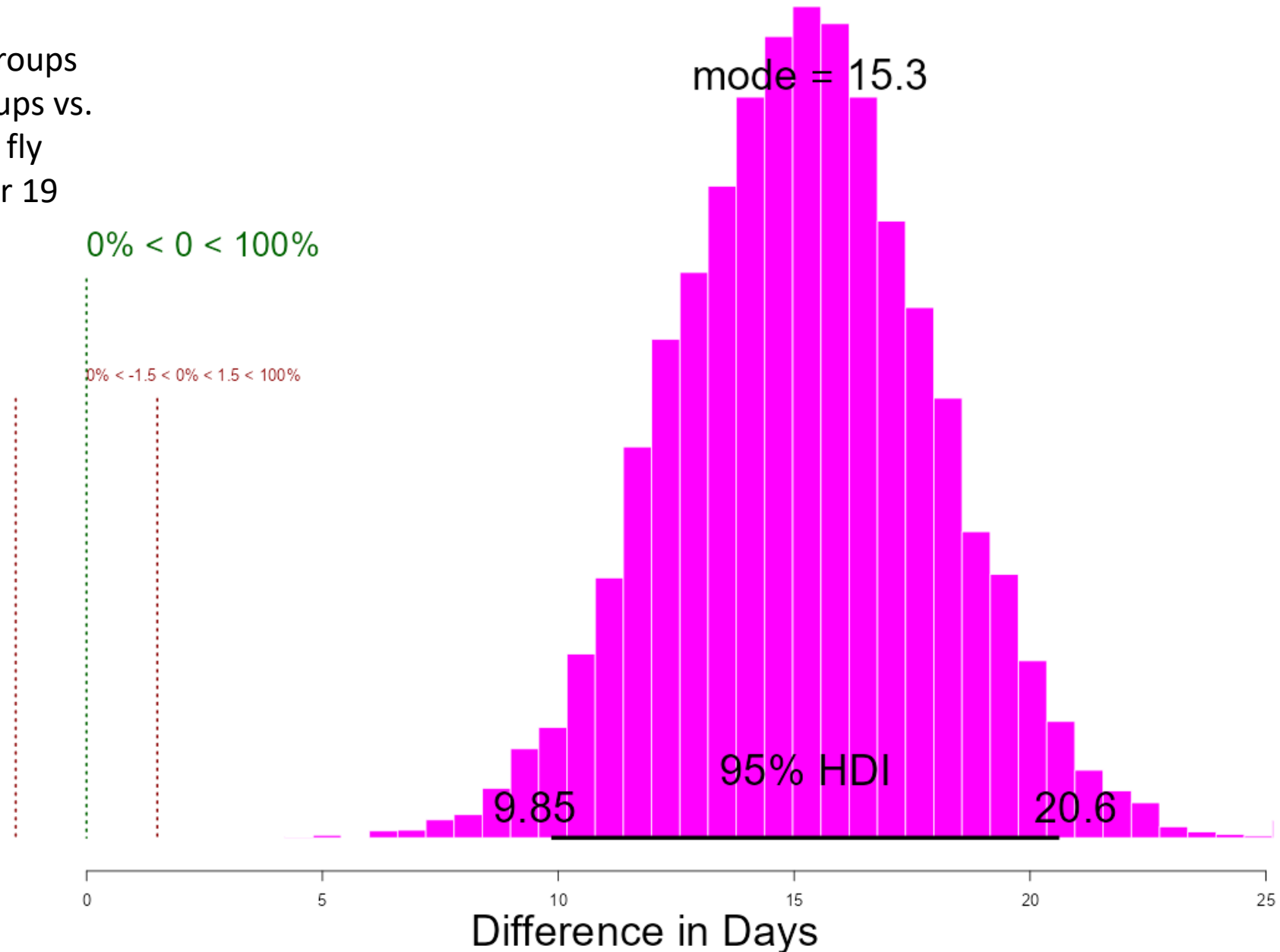
Difference in batting averages excludes 0 as a credible value and the ROPE excludes the 95% HDI.

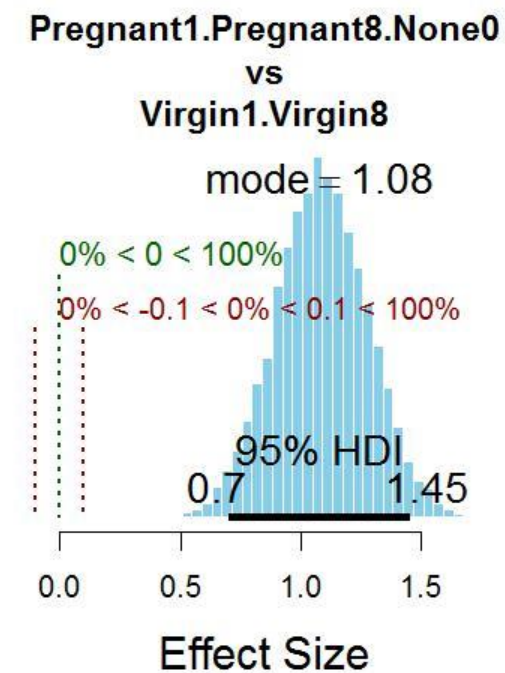
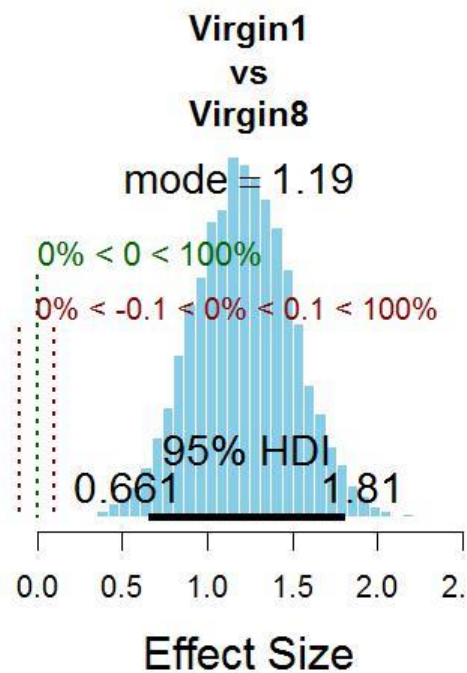
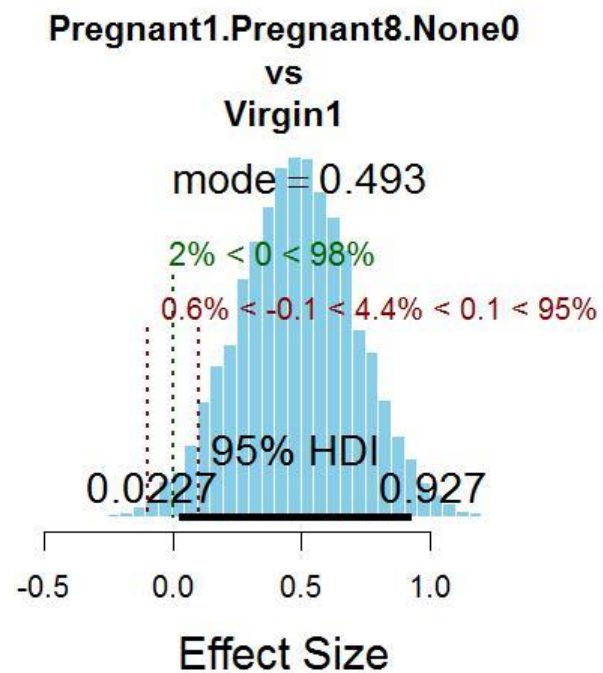
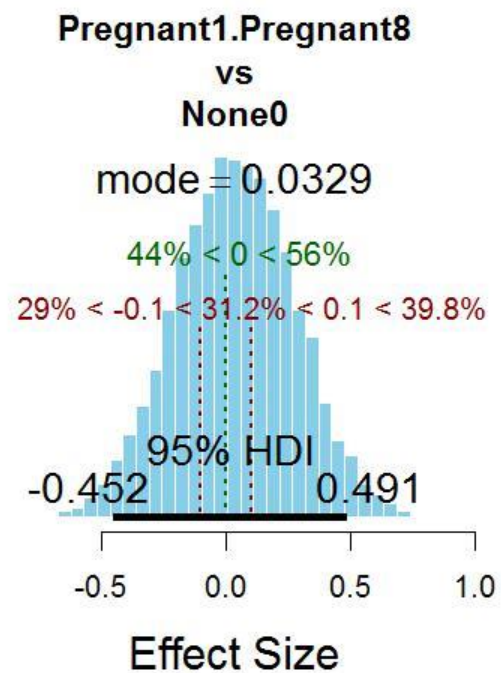
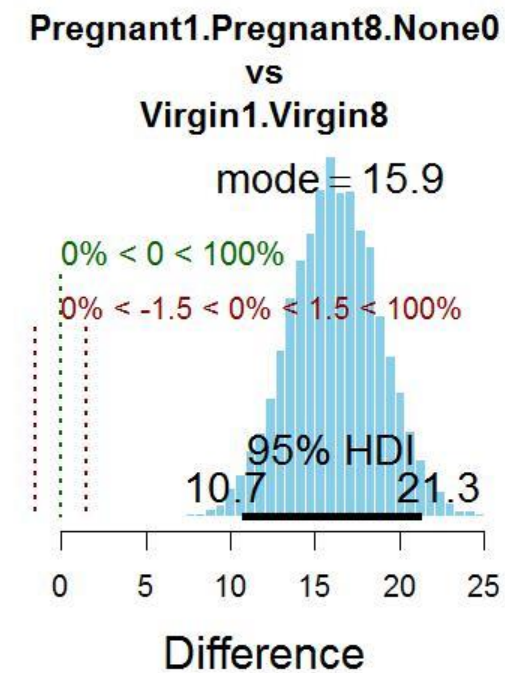
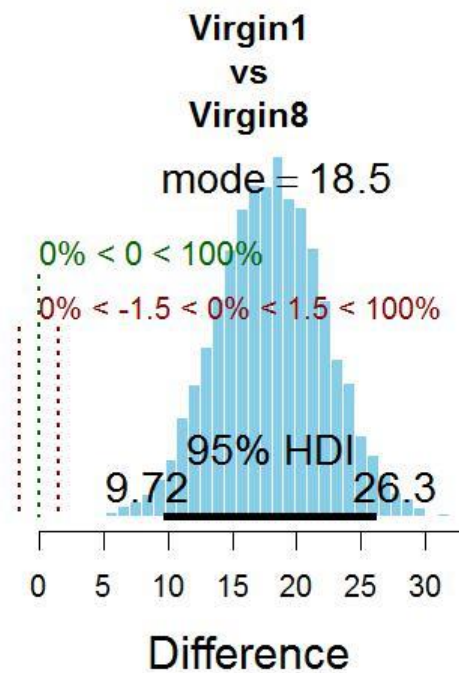
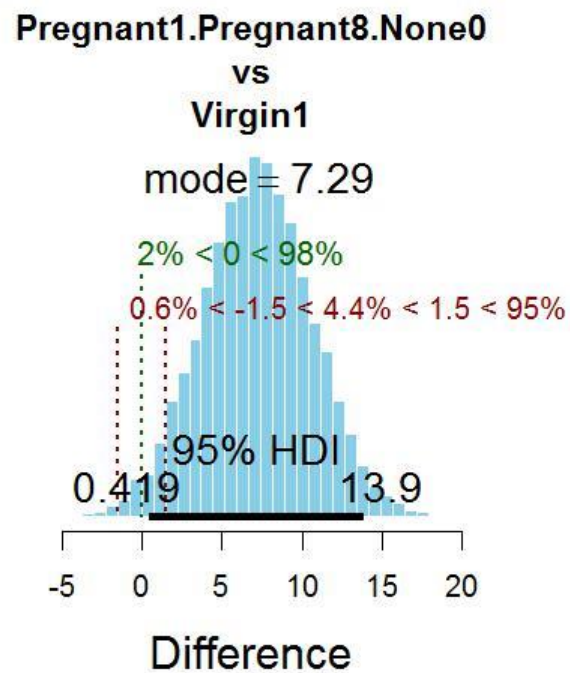
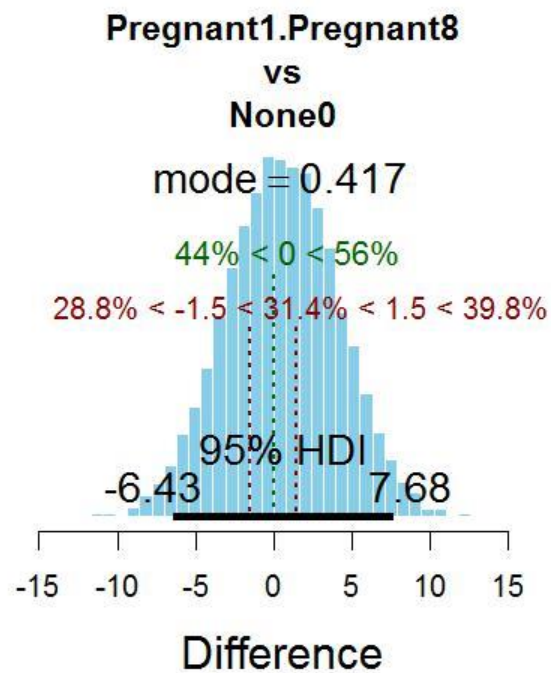
Cohen's effect size for the difference



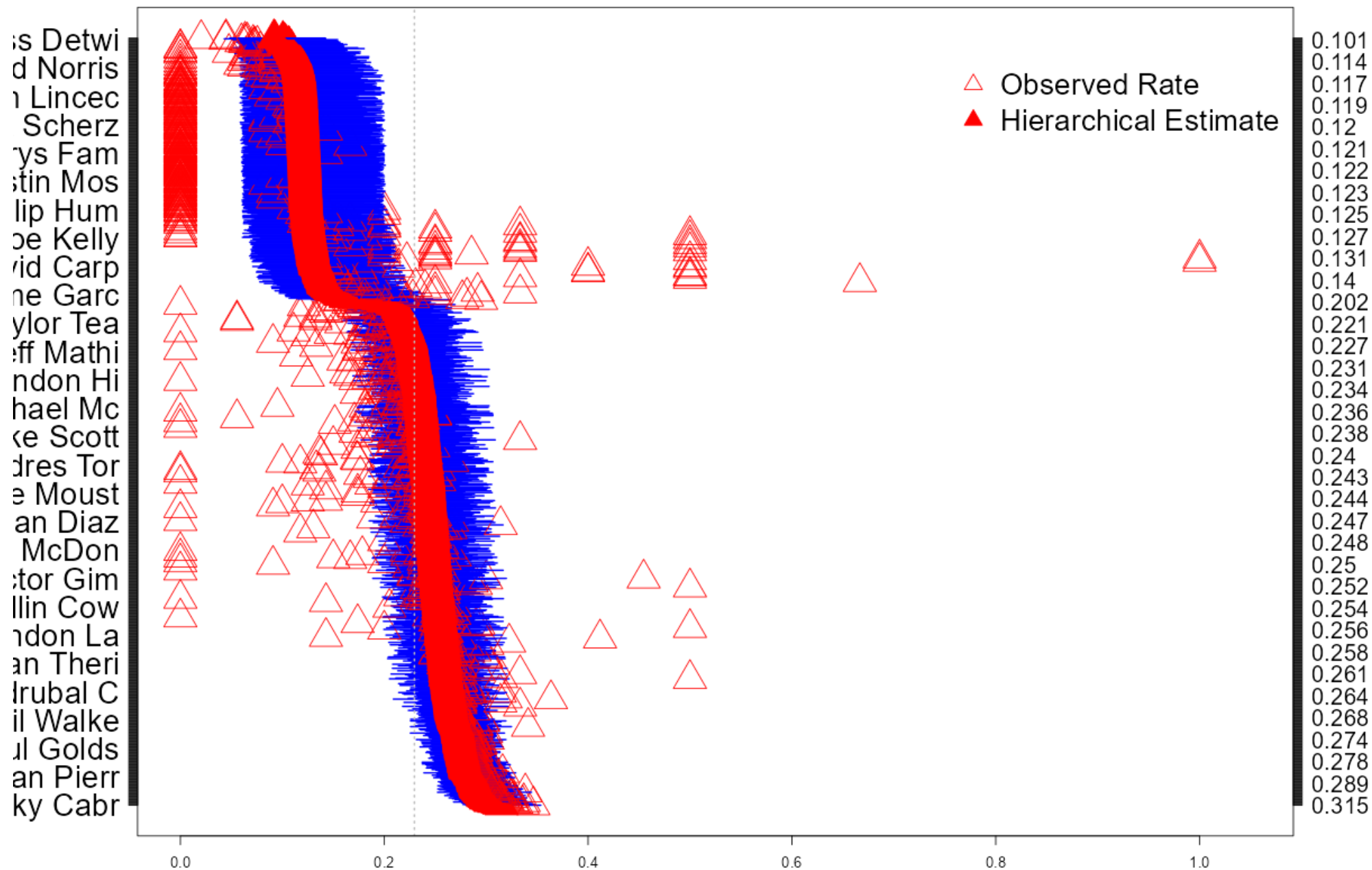
None/Pregnant1/Pregnant8 - Virgin1/Virgin8

Contrasts can be done between 2 groups or multiple subsets of groups such as 3 control groups vs. 2 test groups on fruit fly lifespans (see Chapter 19 Kruschke, 2015).

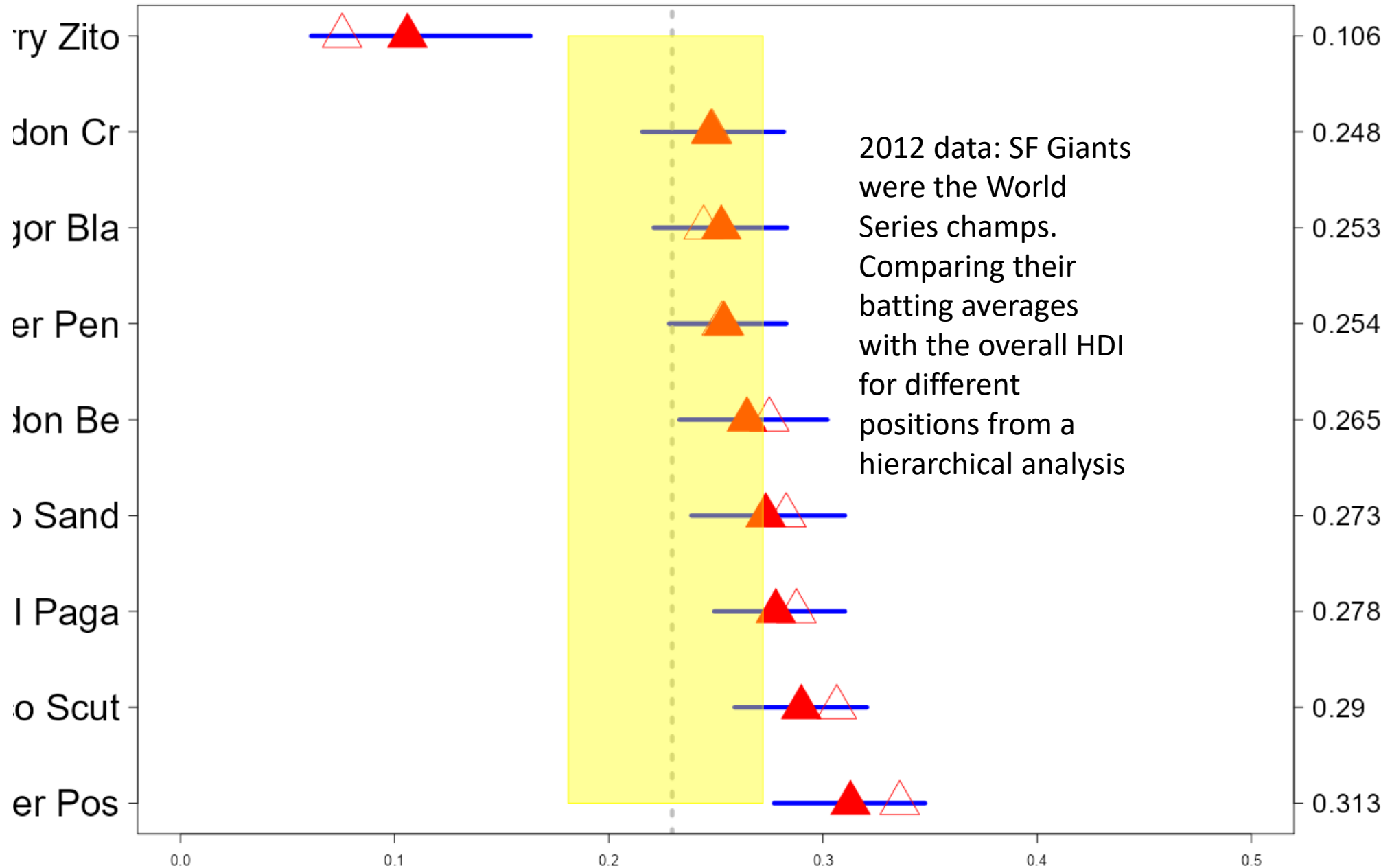




95% Highest Density Intervals of Hits by Player

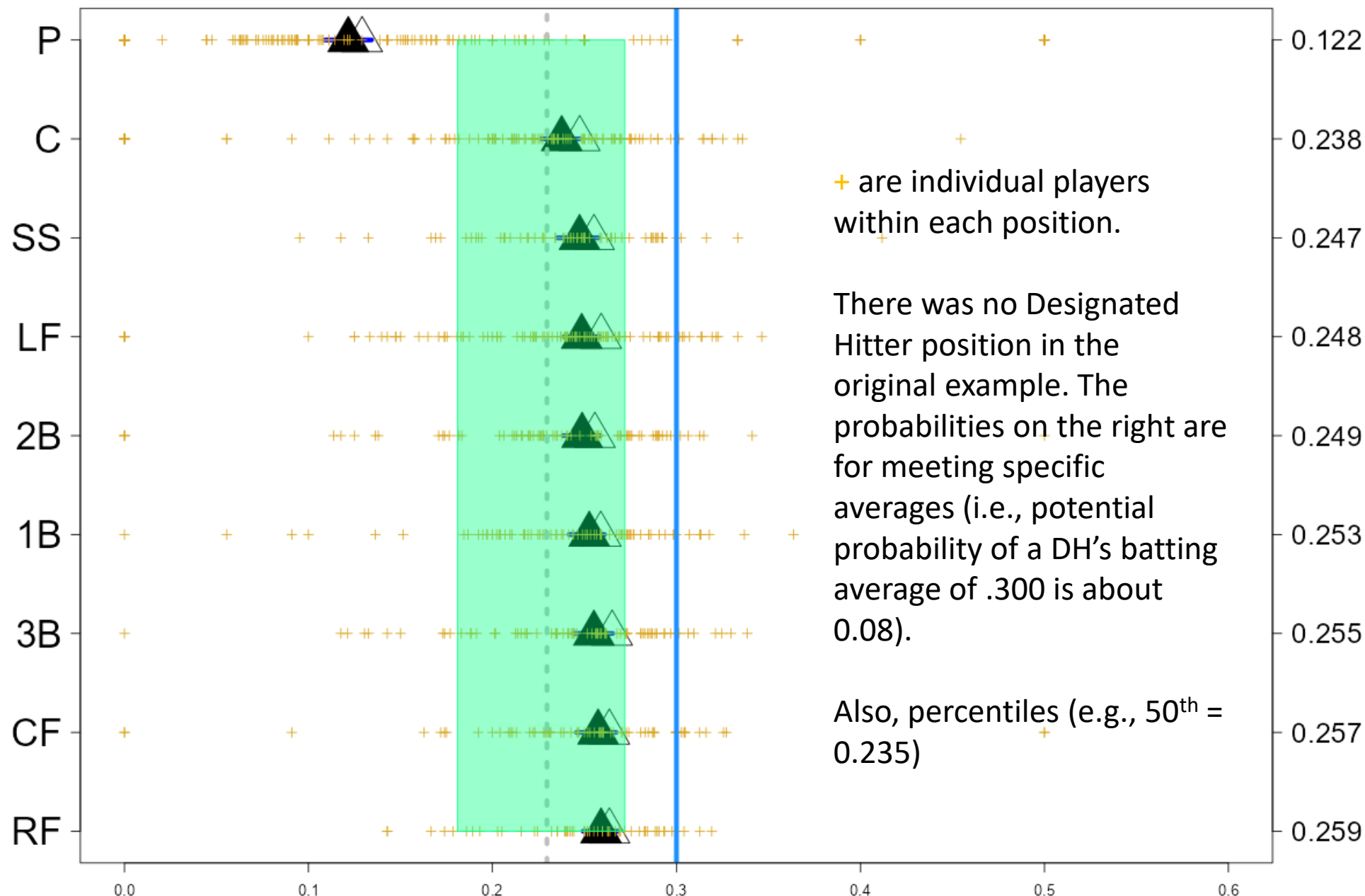


95% Highest Density Intervals of Hits by Player



Dashed line= Overall hierarchical est. of 0.23, 95% HDI [0.181, 0.272]

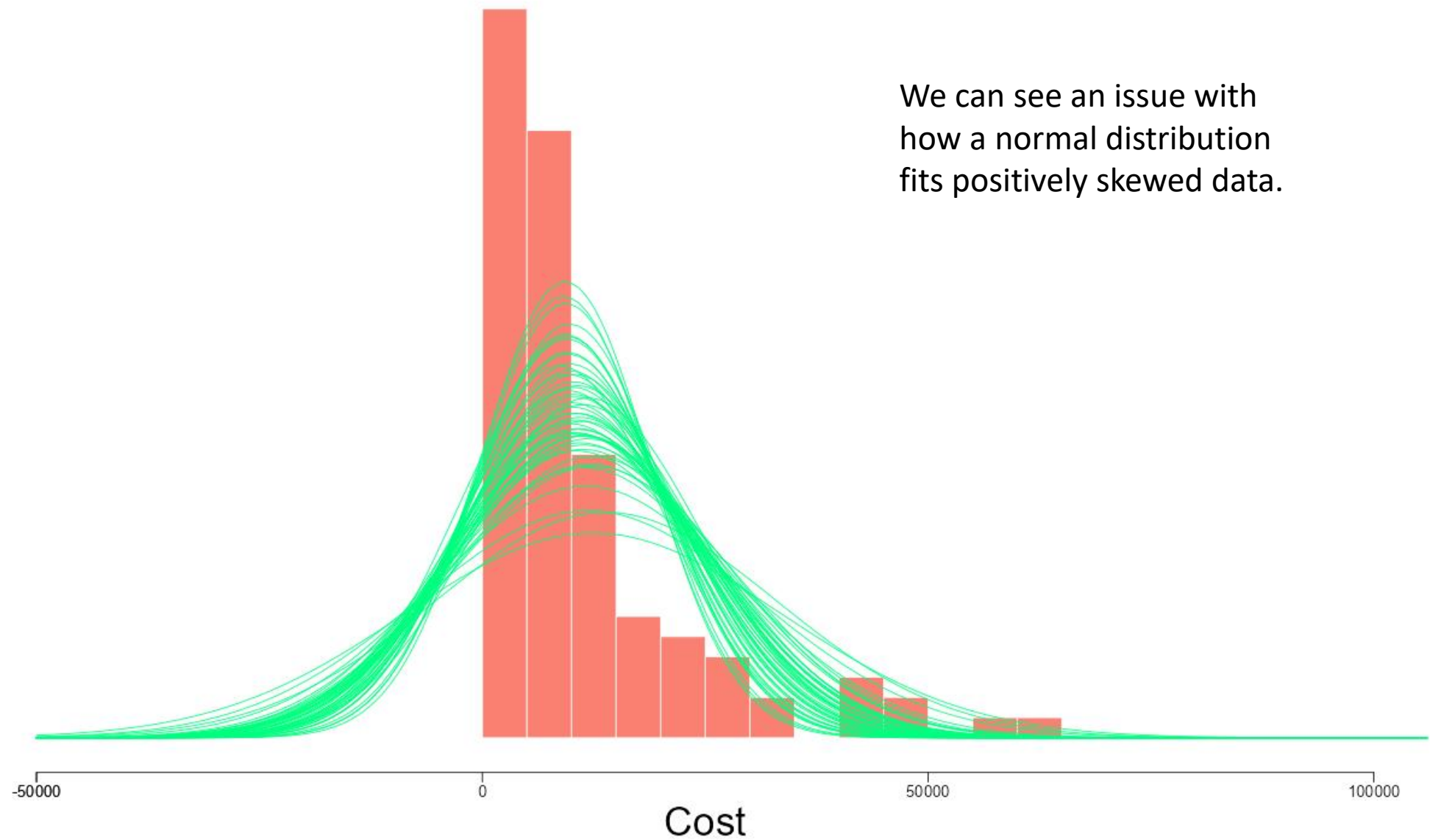
95% Highest Density Intervals of Hits by Position



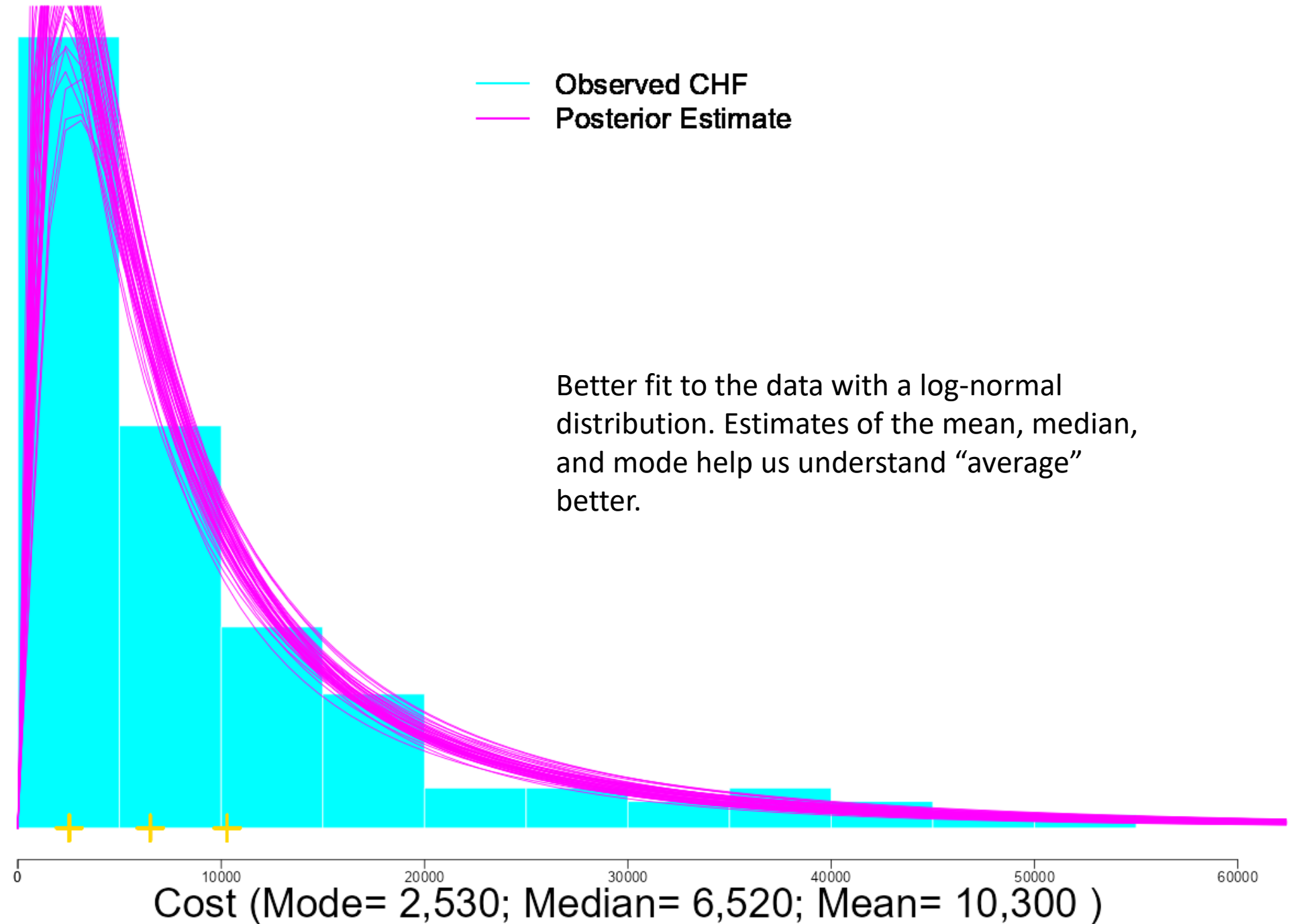
Dashed line= Overall hierarchical est. of 0.23, 95% HDI [0.181, 0.272]

| | | | | |
|-----------------------------------|-------------|-------------|--|--|
| \$Est.Prop.GT.Y | | | | |
| \$Est.Prop.GT.Y\$Y_0.23 | | | | |
| Mode | HDIlow | HDIhigh | | |
| 0.5521178 | 0.2884207 | 0.7772578 | | |
| \$Est.Prop.GT.Y\$Y_0.3 | | | | |
| Mode | HDIlow | HDIhigh | | |
| 0.082626078 | 0.008068365 | 0.356581483 | | |
| \$Est.Effect.Size.2Y | | | | |
| Mode | HDIlow | HDIhigh | | |
| 0.8461453 | 0.4639655 | 1.2680568 | | |
| \$Est.Quantile.Y | | | | |
| \$Est.Quantile.Y\$Percentile_0.05 | | | | |
| Mode | HDIlow | HDIhigh | | |
| 0.1559087 | 0.0934855 | 0.1953441 | | |
| \$Est.Quantile.Y\$Percentile_0.25 | | | | |
| Mode | HDIlow | HDIhigh | | |
| 0.1993641 | 0.1515007 | 0.2369288 | | |
| \$Est.Quantile.Y\$Percentile_0.5 | | | | |
| Mode | HDIlow | HDIhigh | | |
| 0.2352480 | 0.1932466 | 0.2780868 | | |
| \$Est.Quantile.Y\$Percentile_0.75 | | | | |
| Mode | HDIlow | HDIhigh | | |
| 0.2681554 | 0.2297939 | 0.3329683 | | |
| \$Est.Quantile.Y\$Percentile_0.95 | | | | |
| Mode | HDIlow | HDIhigh | | |
| 0.3238013 | 0.2739714 | 0.4327274 | | |
| \$Est.Mean.Beta | | | | |
| Mode | HDIlow | HDIhigh | | |
| 0.2368235 | 0.1970613 | 0.2808094 | | |

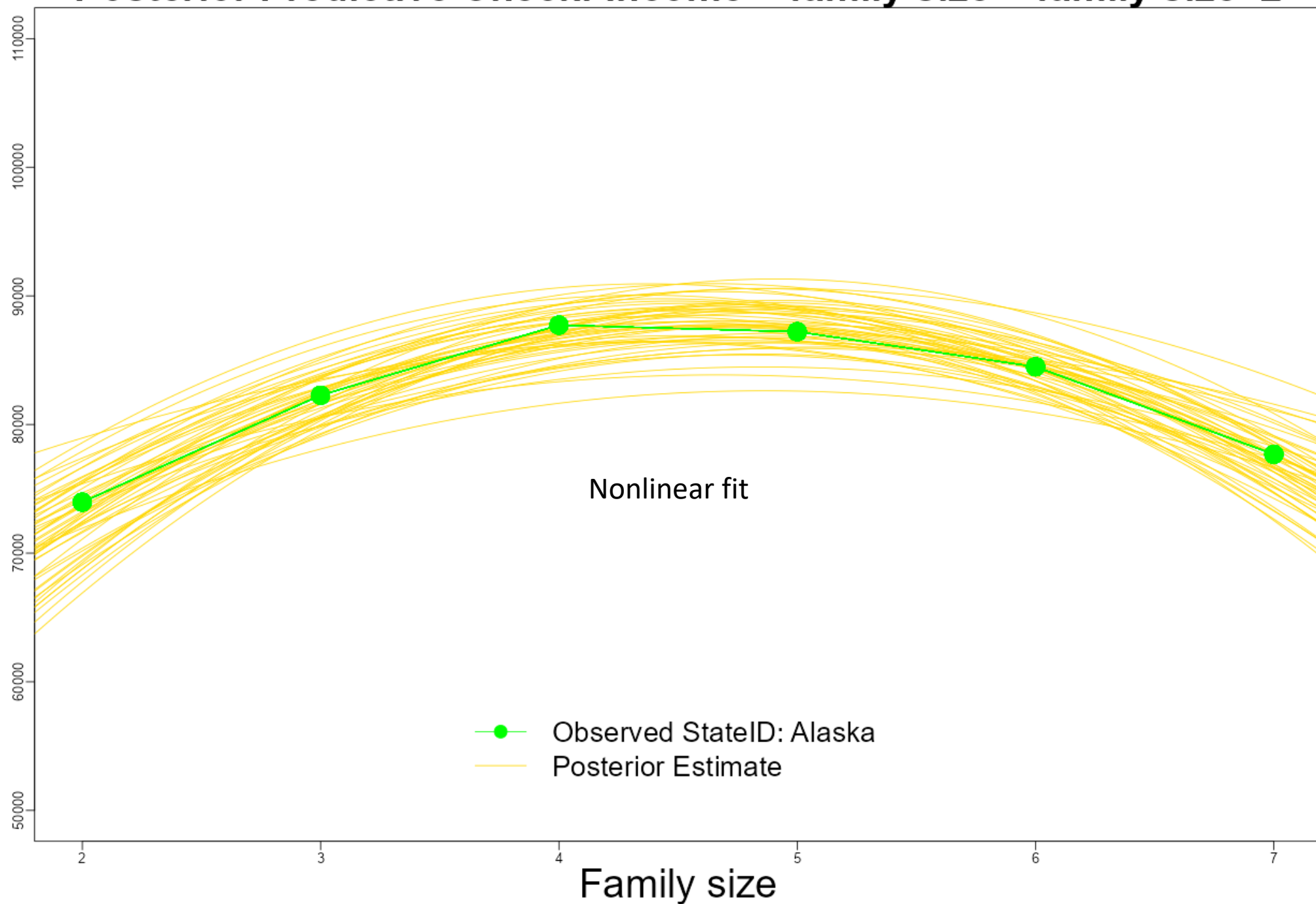
Posterior Predictive Check of health costs



Posterior Predictive Check of health costs



Posterior Predictive Check: Income ~ family size + family size^2



Posterior Predictive Check: Robust t

