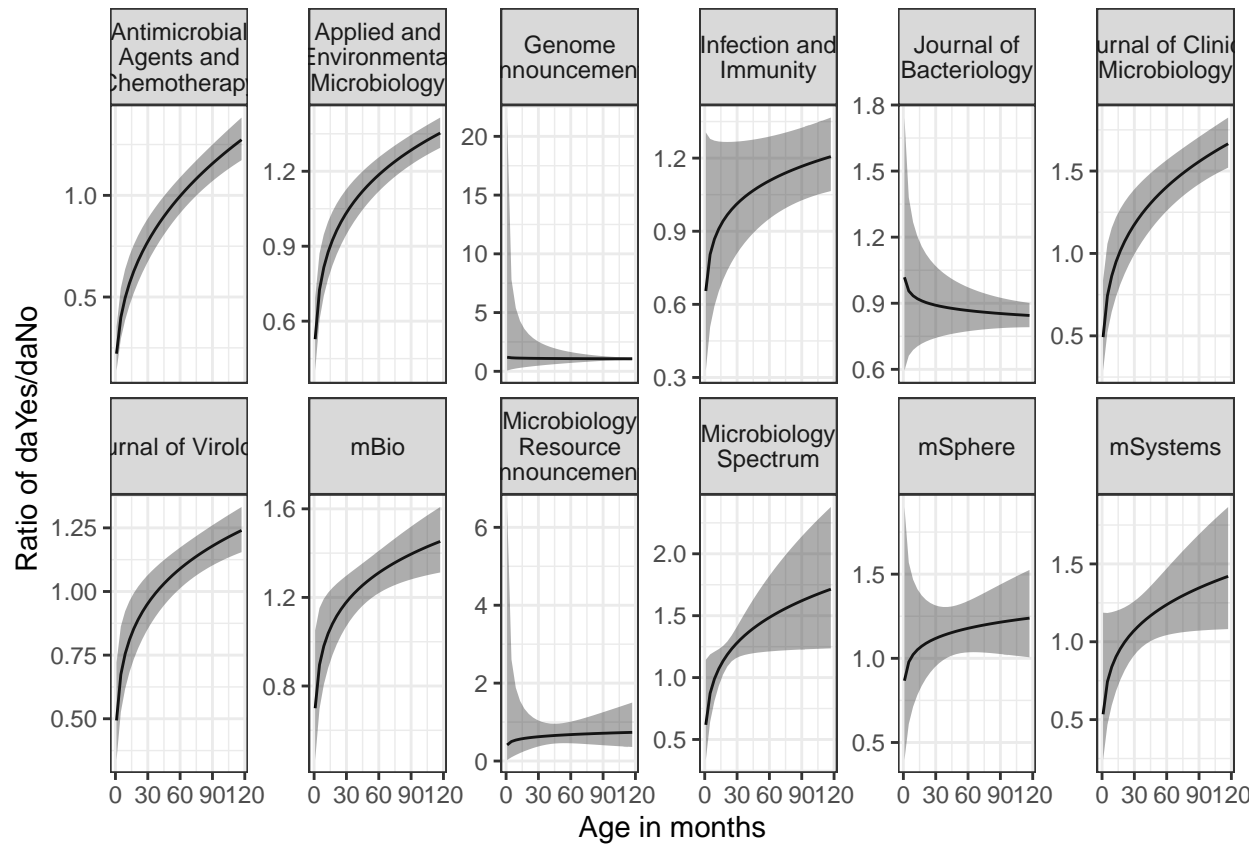


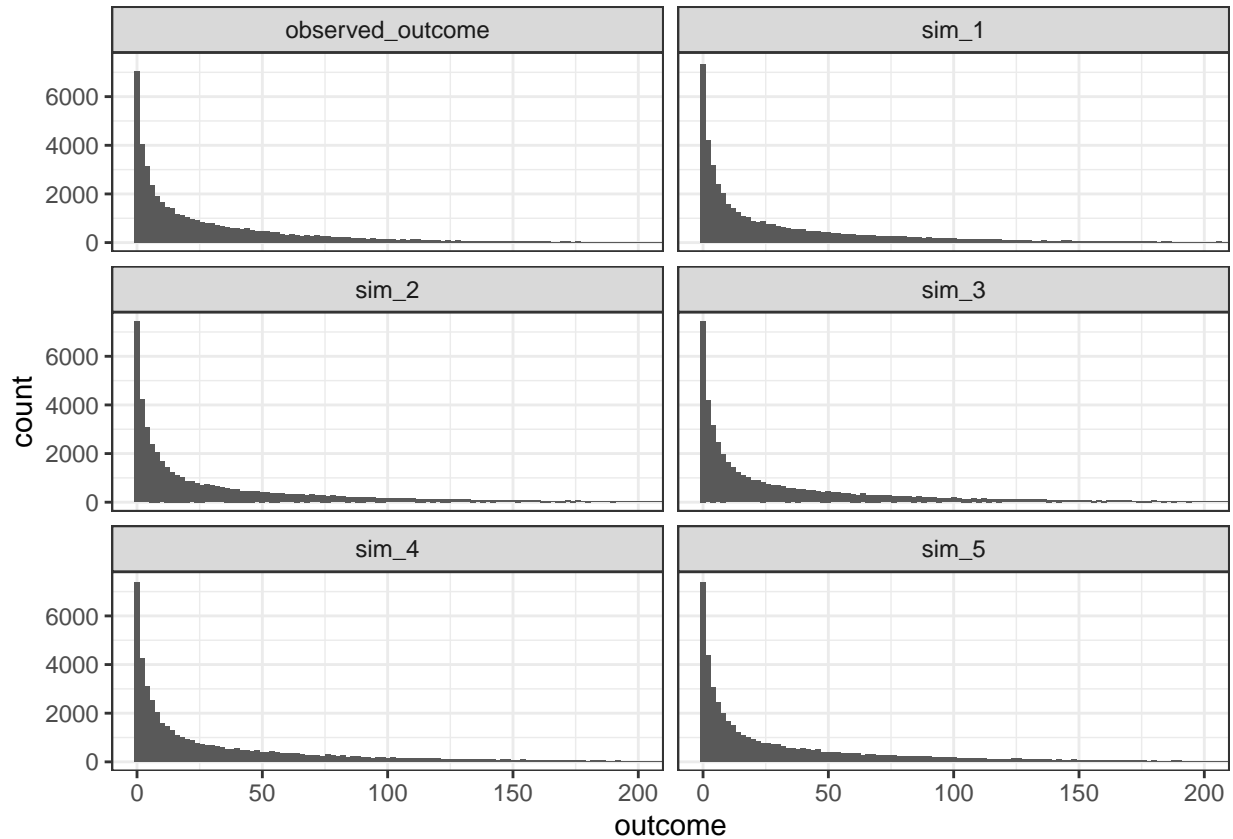
20250801_abner_emmeans.Rmd

2025-08-01

Protocol for all data and then data by journal

1. Fit model and store it
2. Define the age values you want to examine (more continuous using `seq(1, 120, 4)`)
3. Get emmeans on the link scale for all combinations
4. Get pairwise comparisons between da factor levels (ratios)
5. Plot the contrasts using `geom_ribbon`
6. Create the Marginal Predictive Checks





Create Newer Plots from Abner (20250813)

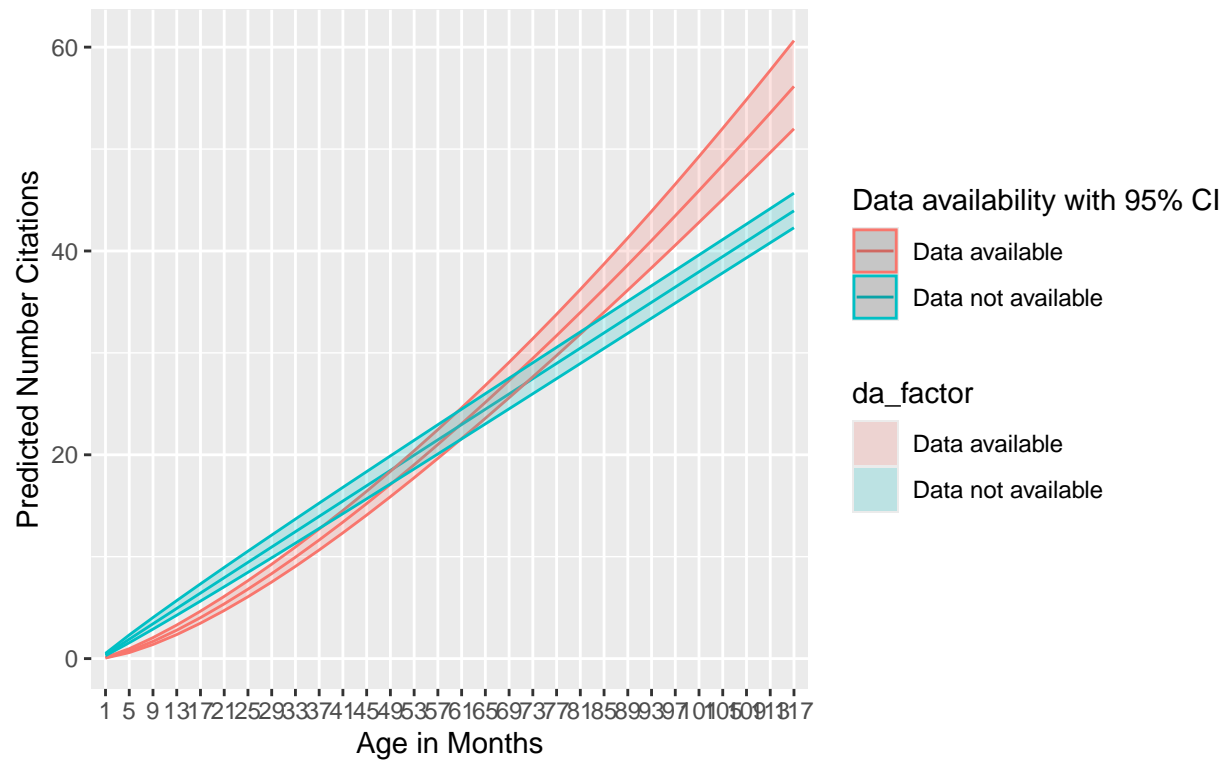
- " Use more different values for age in months and treat them as numbers instead of factors so you can make a smoother plot. This visualization would be more consistent with your model because it uses age as a continuous variable. " - AHB

Previously (20250801)

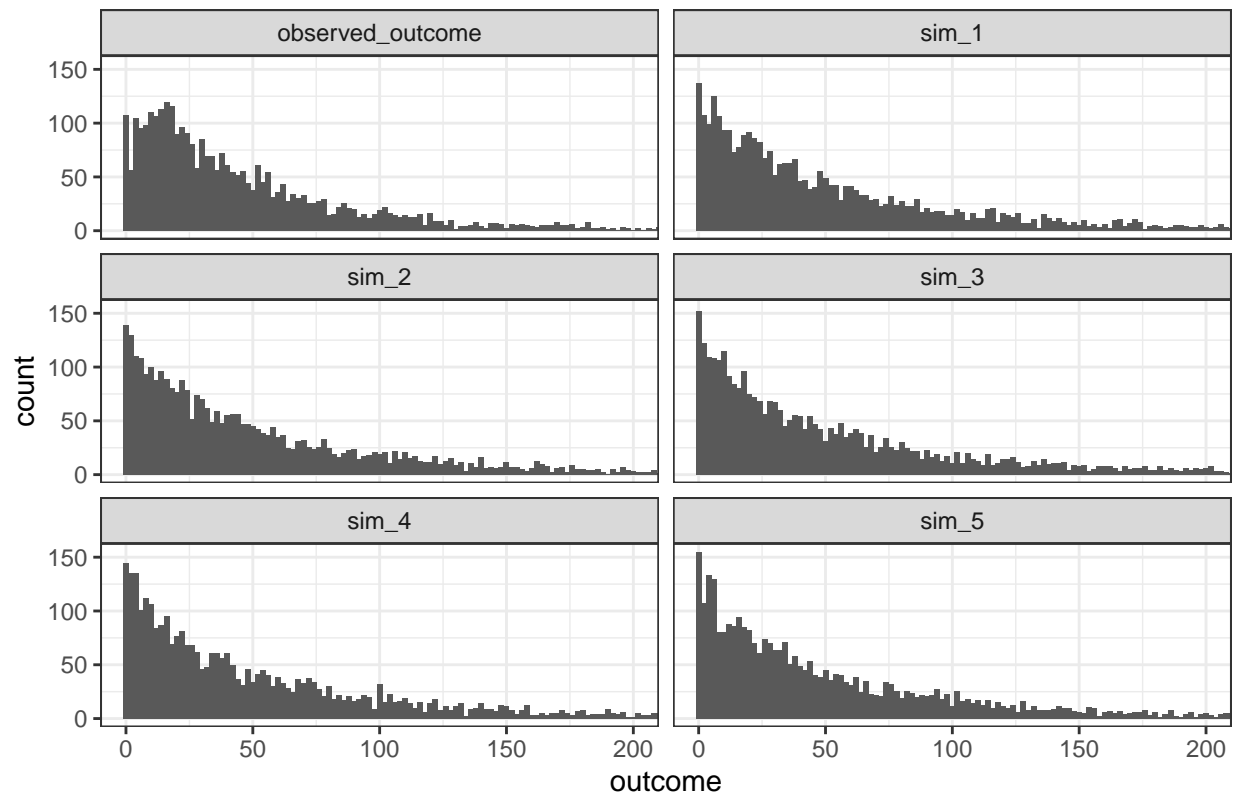
- "Also, I think this result would be even clearer if you made a plot with "age" in the horizontal axis, "predicted citations" in the vertical axis, and lines colored by "da_factor"." - AHB
- These plots are each made with a different glm.nb model (one for each journal), which is why they are not combined into a faceted plot.

```
## Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Set1 is 9
## Returning the palette you asked for with that many colors
```

Predicted Number of citations for aac
using two term fixed GLM

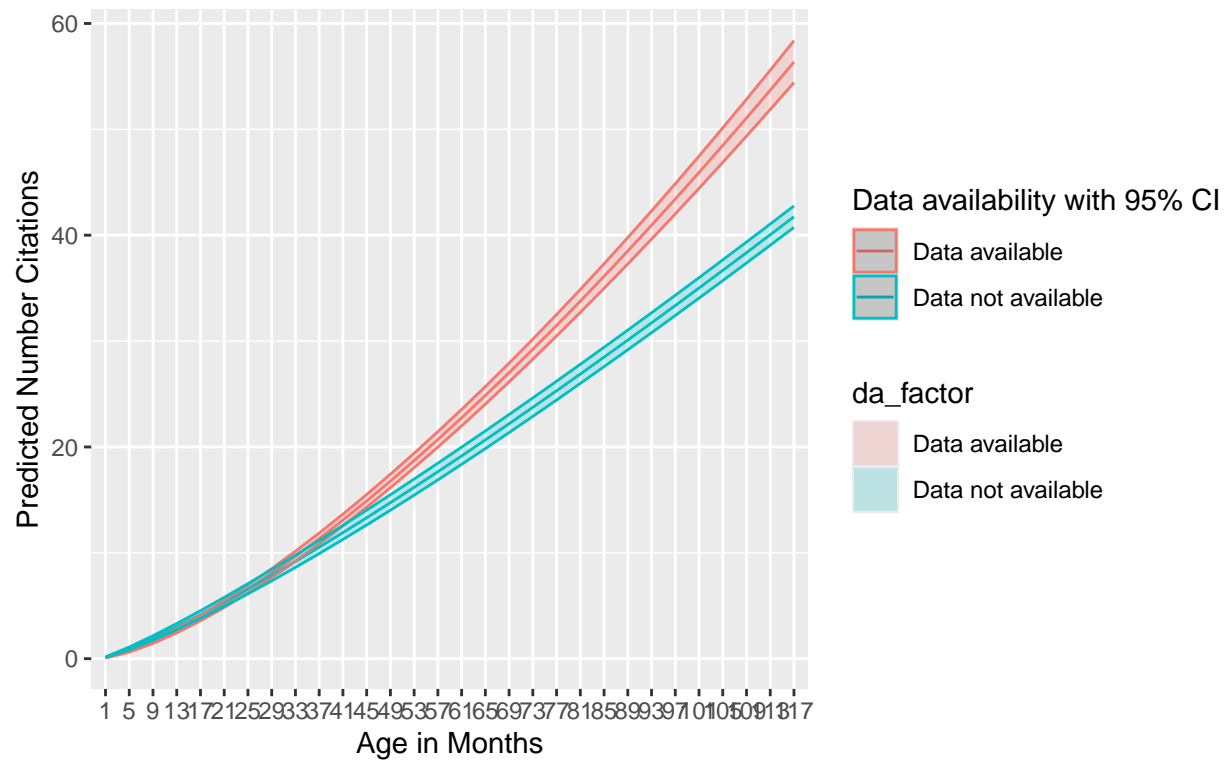


Marginal Predictive Check for journal aac

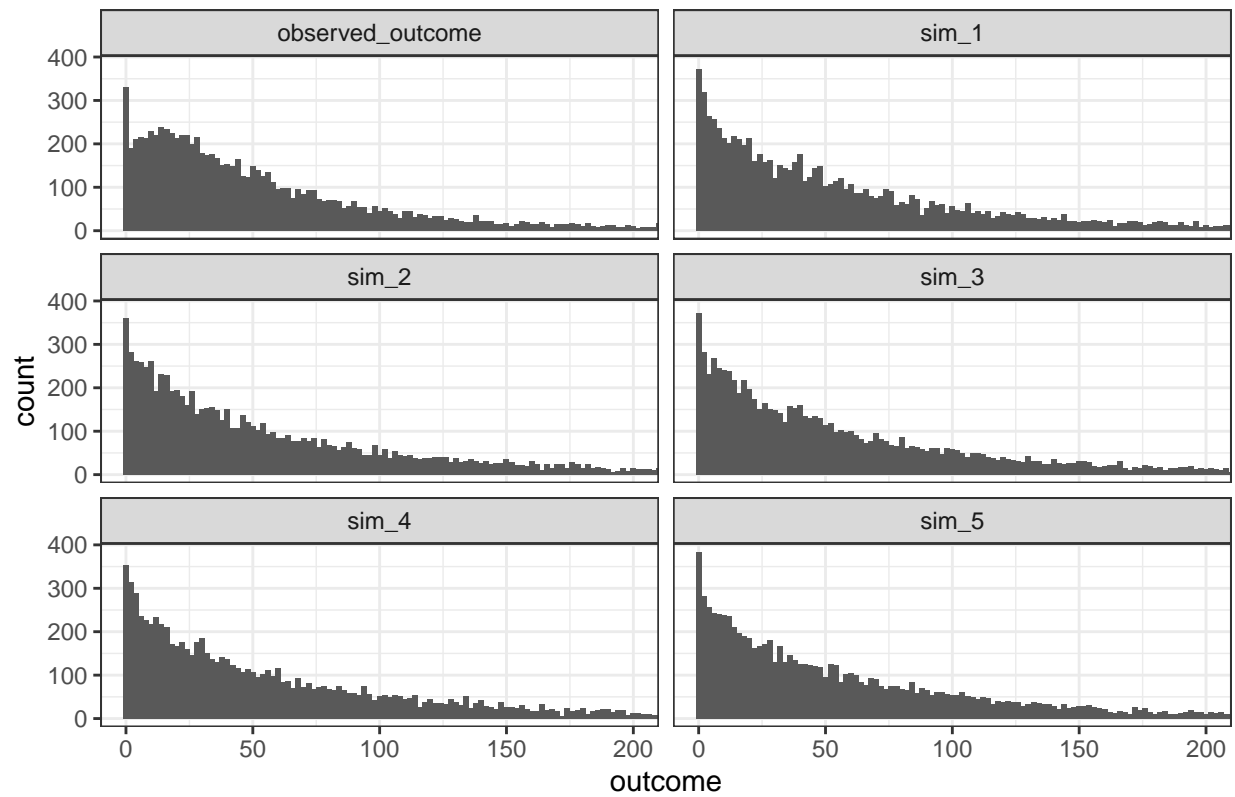


```
## Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Set1 is 9
## Returning the palette you asked for with that many colors
```

Predicted Number of citations for aem
using two term fixed GLM

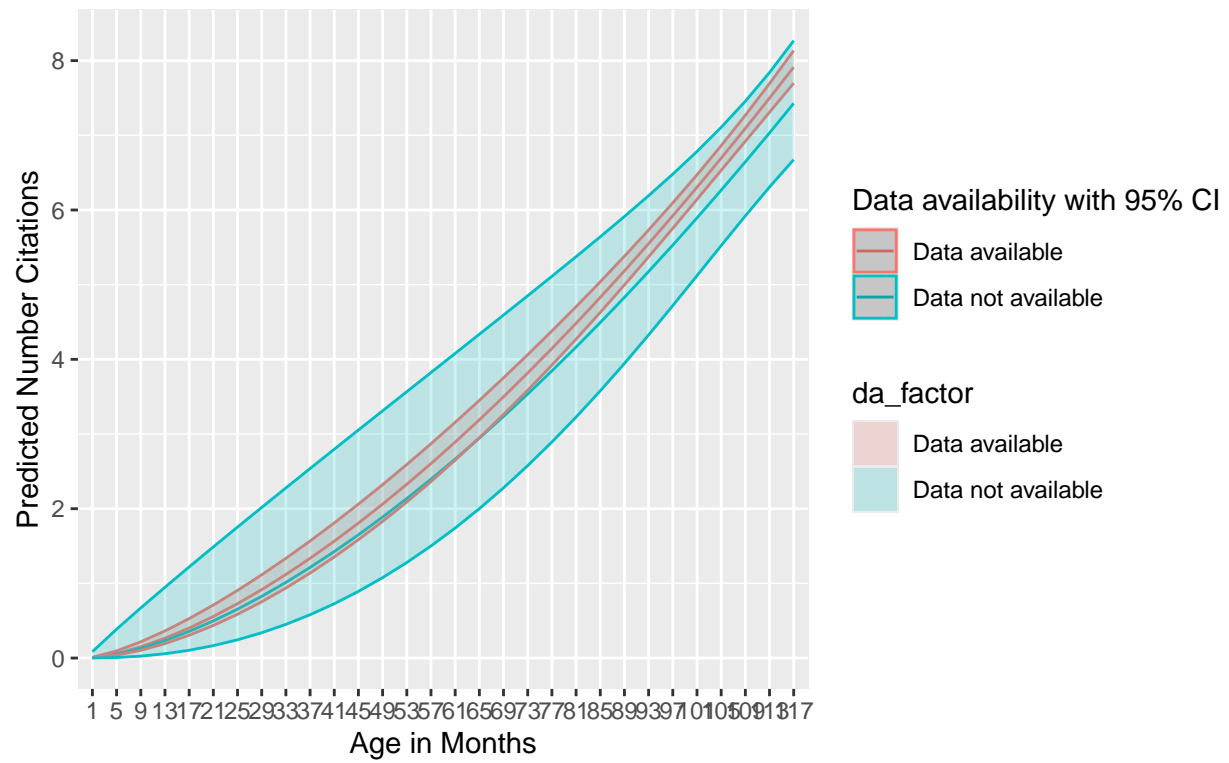


Marginal Predictive Check for journal aem

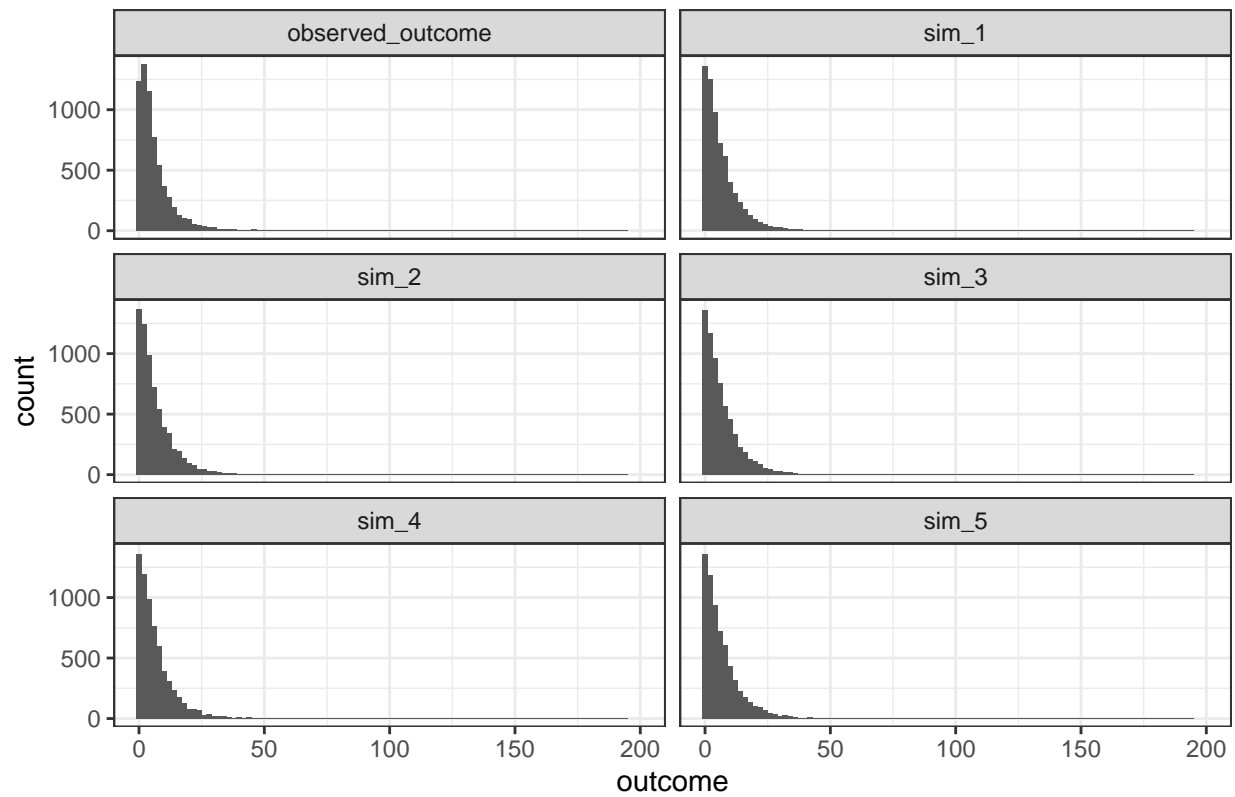


```
## Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Set1 is 9
## Returning the palette you asked for with that many colors
```

Predicted Number of citations for genomea
using two term fixed GLM

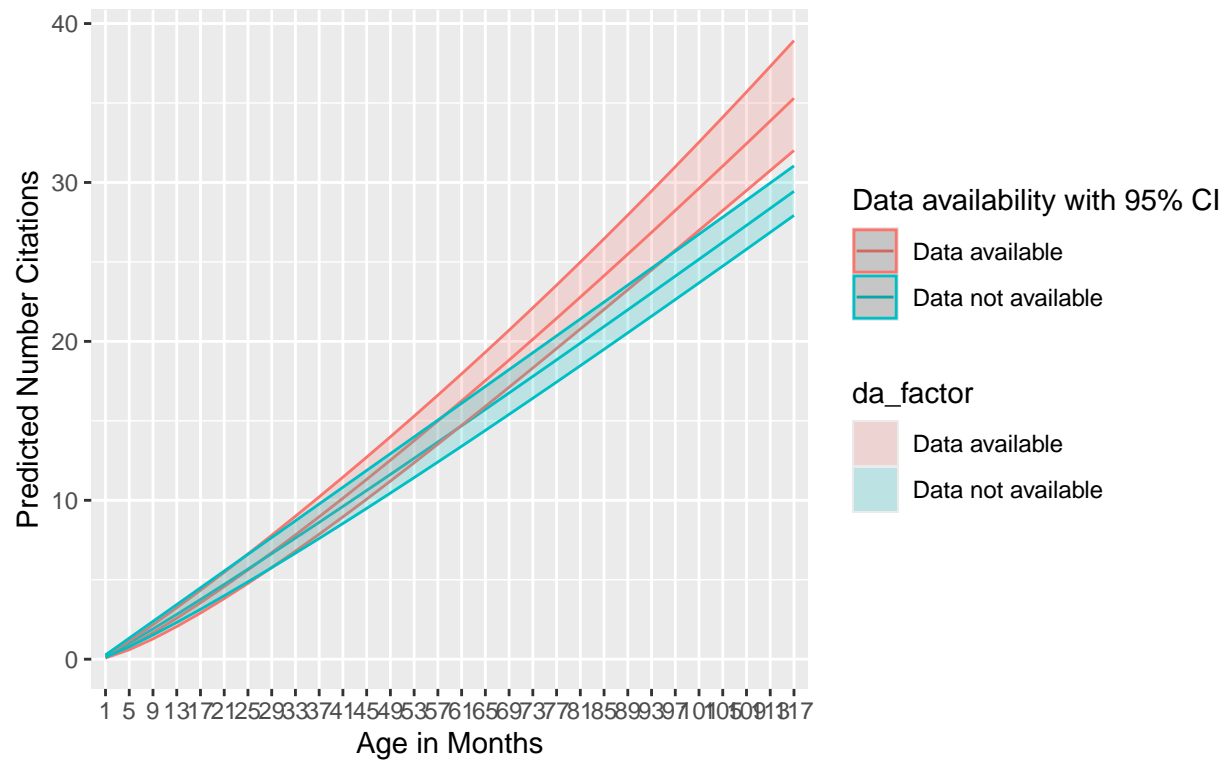


Marginal Predictive Check for journal genomea

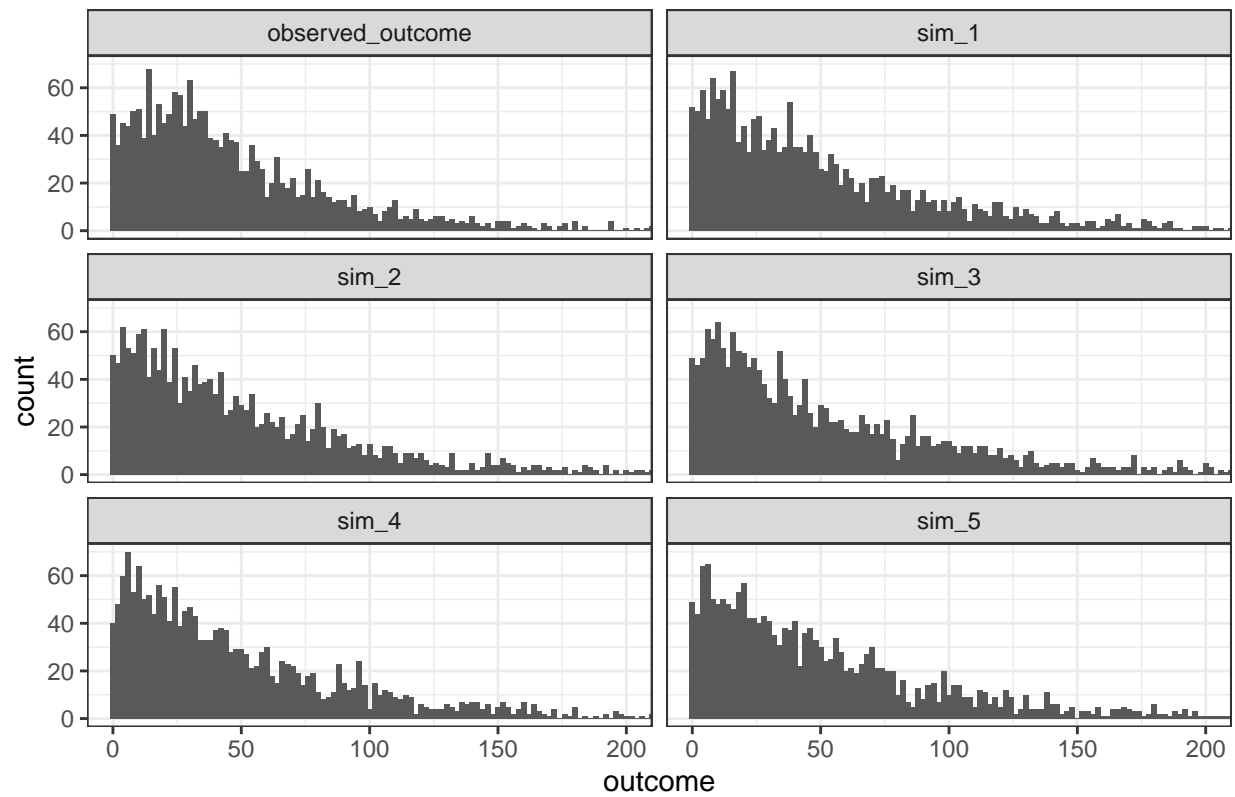


```
## Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Set1 is 9
## Returning the palette you asked for with that many colors
```


Predicted Number of citations for iai
using two term fixed GLM

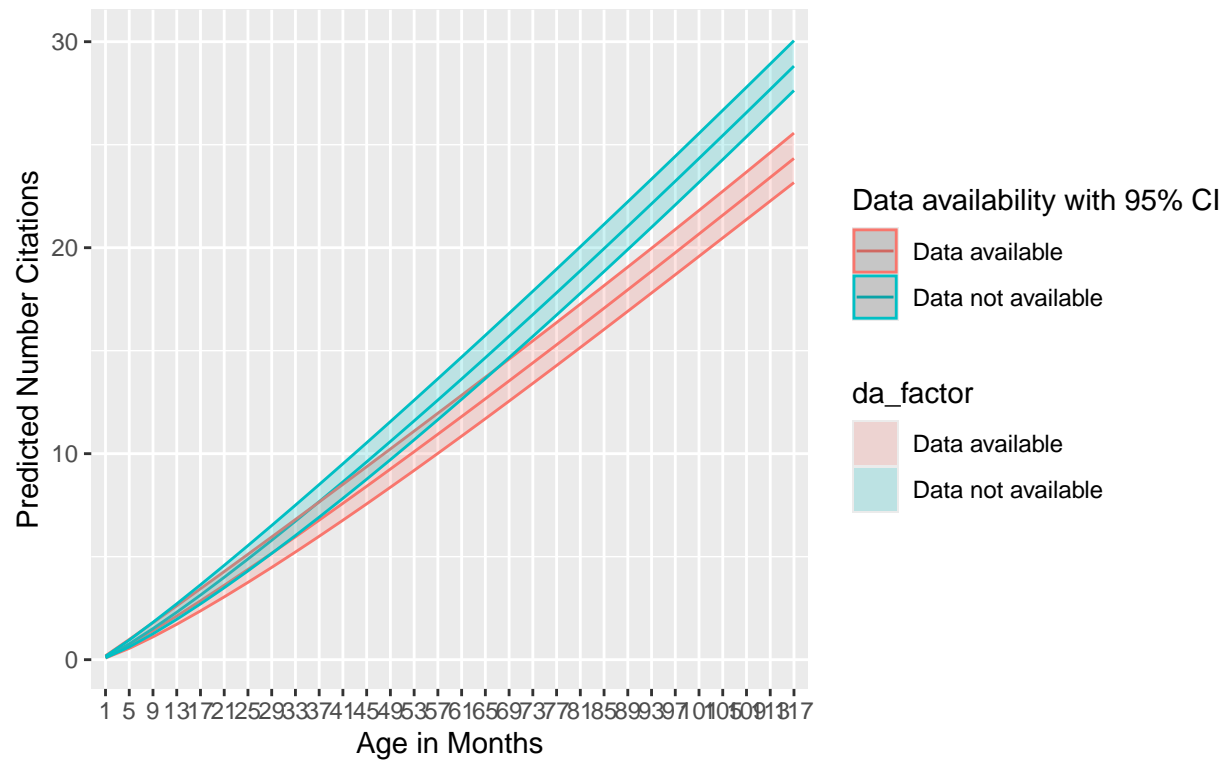


Marginal Predictive Check for journal iai

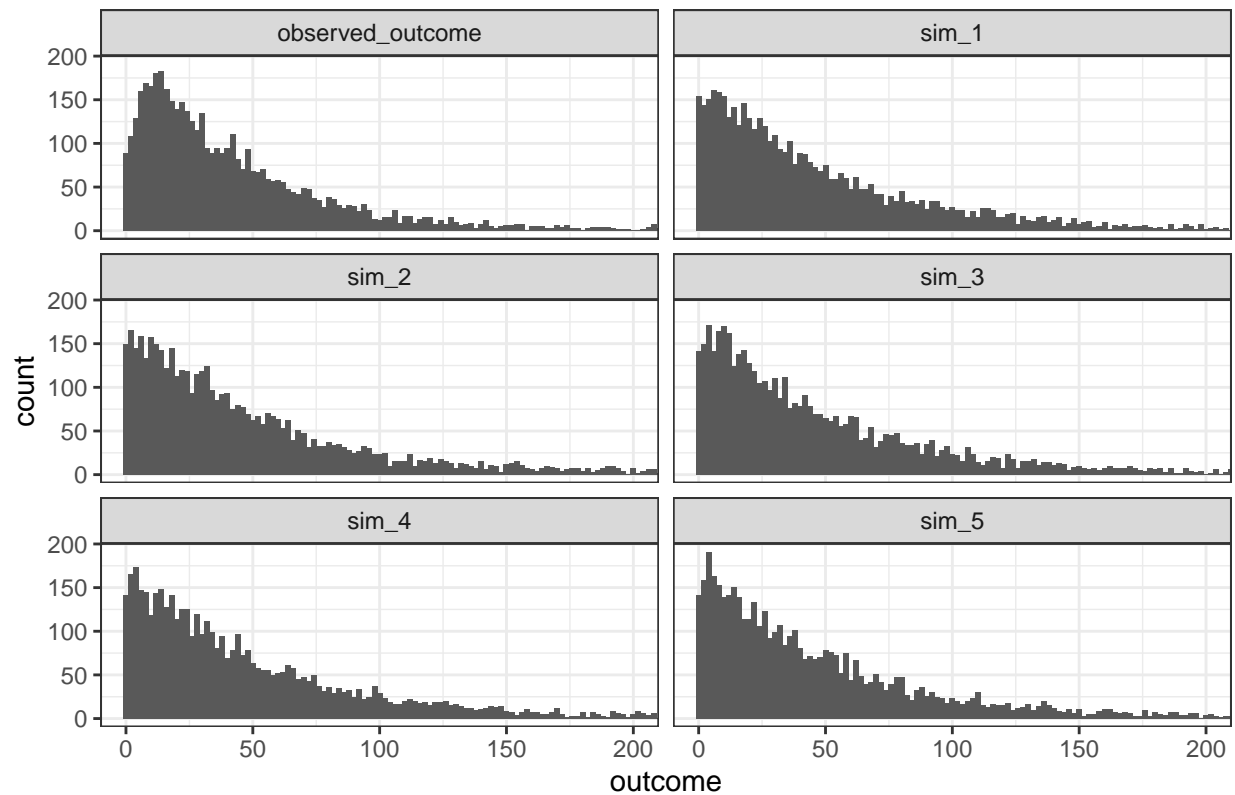


```
## Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Set1 is 9
## Returning the palette you asked for with that many colors
```

Predicted Number of citations for jb
using two term fixed GLM

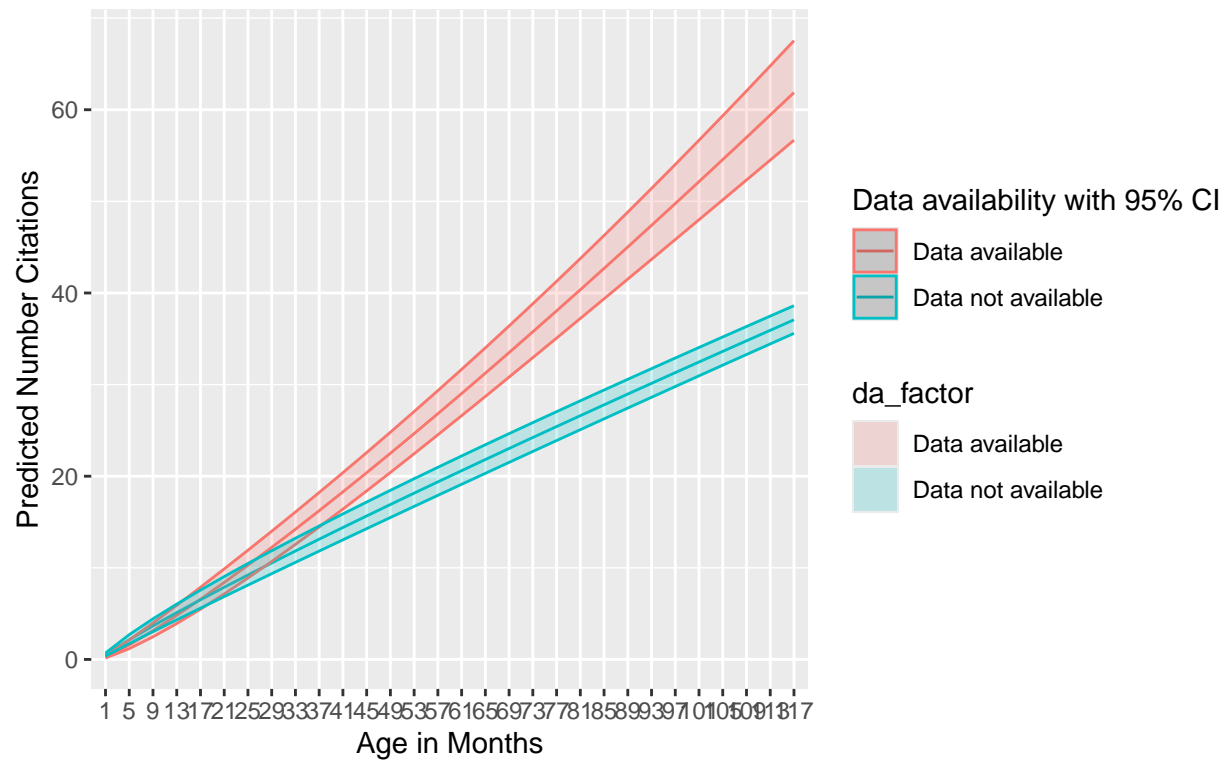


Marginal Predictive Check for journal jb

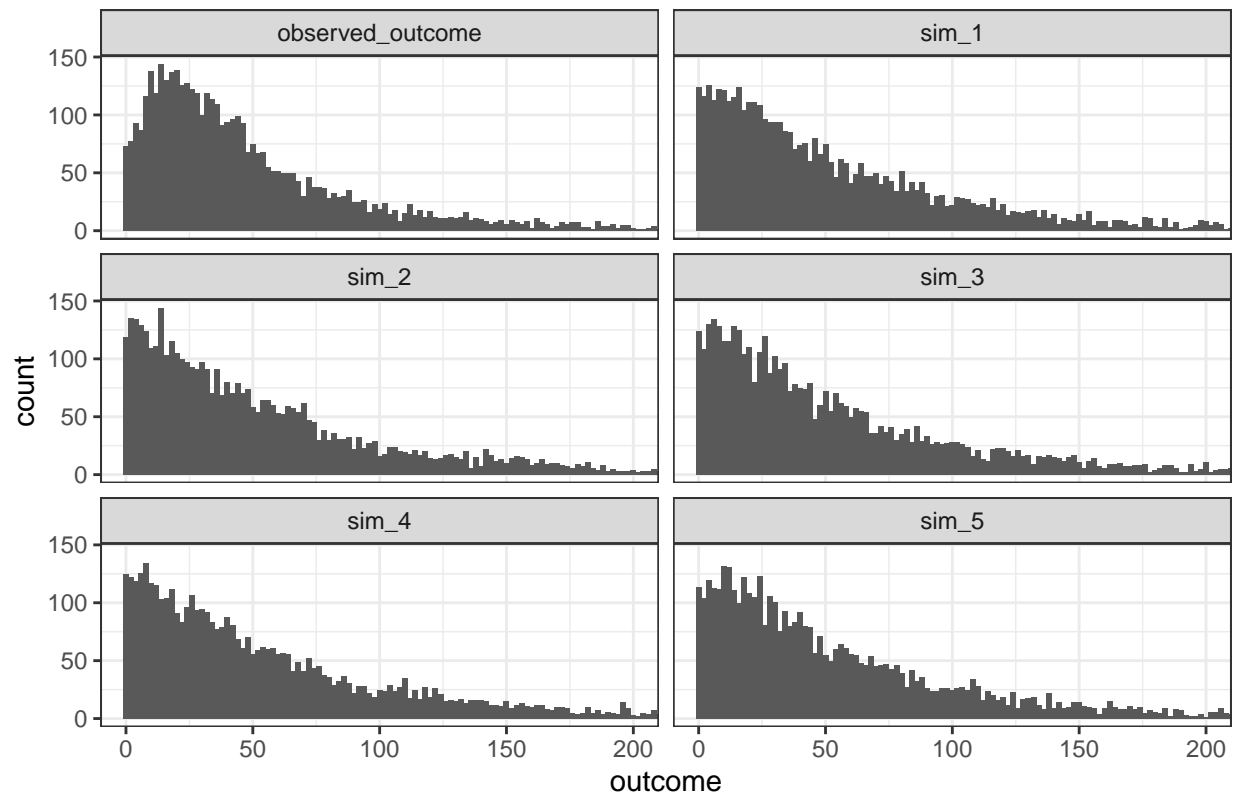


```
## Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Set1 is 9
## Returning the palette you asked for with that many colors
```

Predicted Number of citations for jcm
using two term fixed GLM

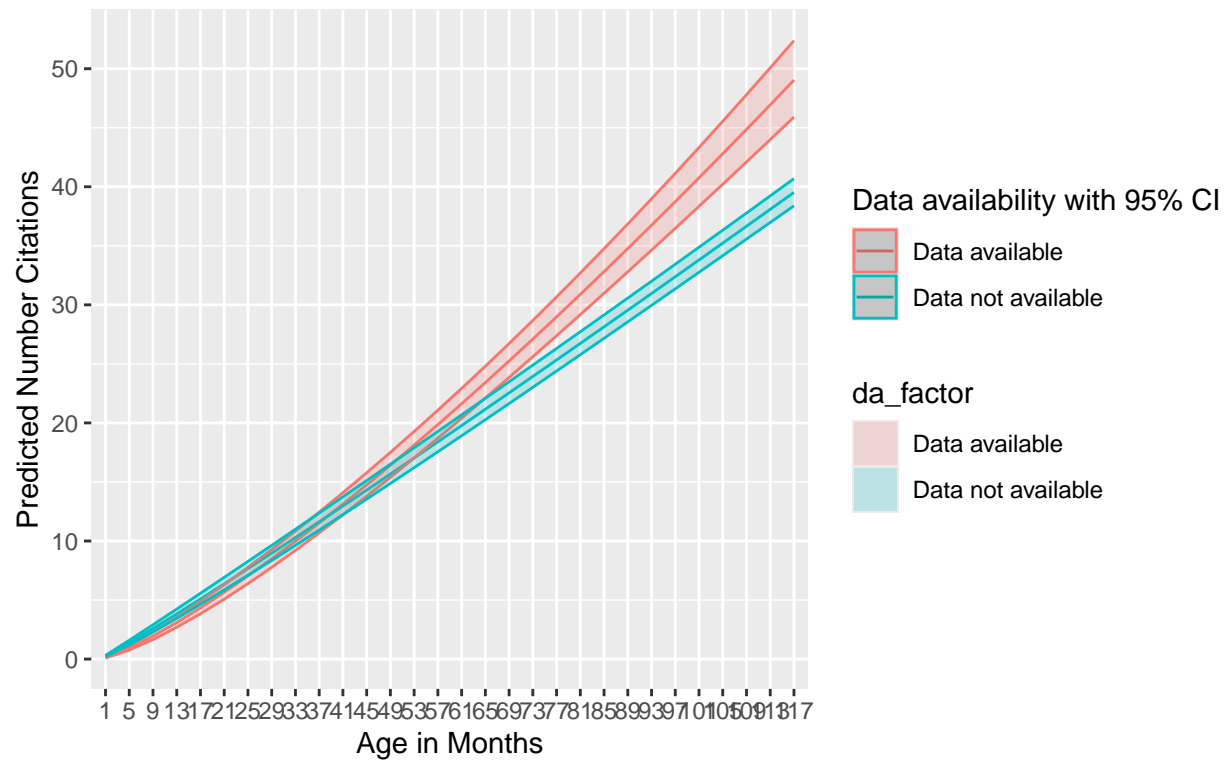


Marginal Predictive Check for journal jcm

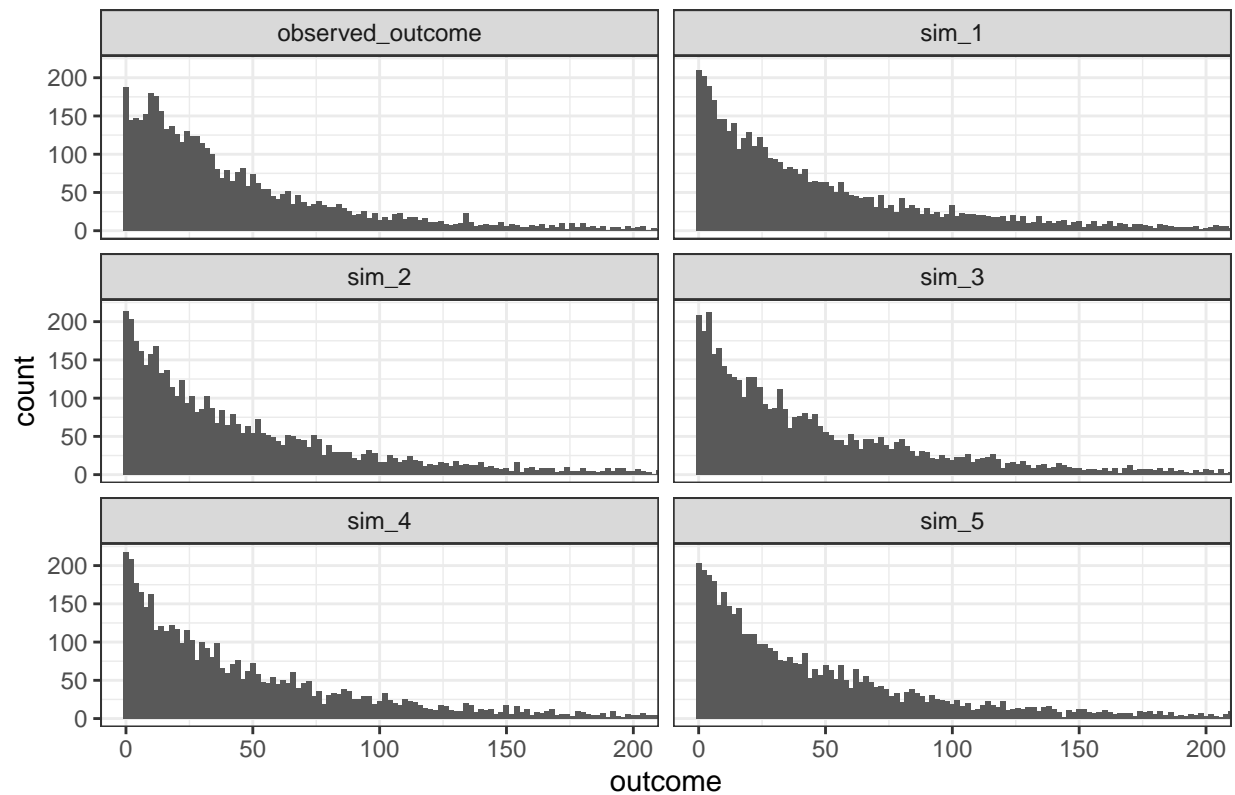


```
## Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Set1 is 9
## Returning the palette you asked for with that many colors
```

Predicted Number of citations for jvi
using two term fixed GLM

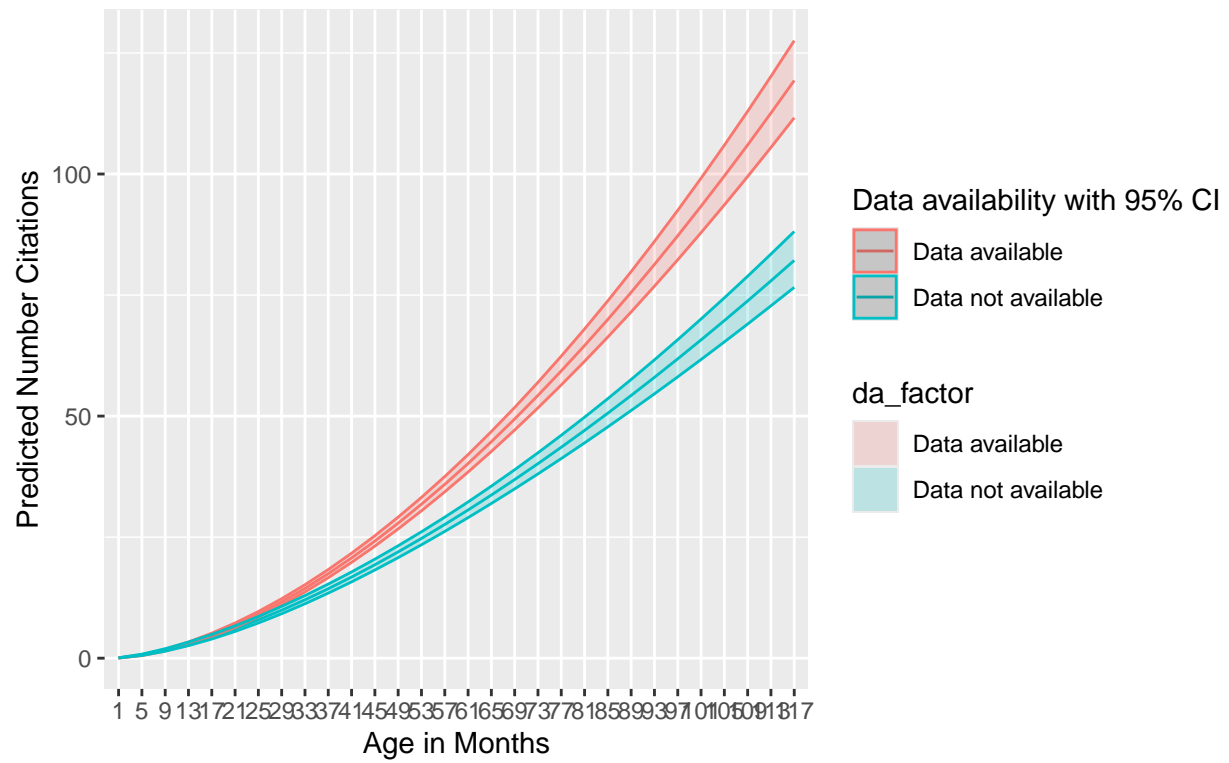


Marginal Predictive Check for journal jvi

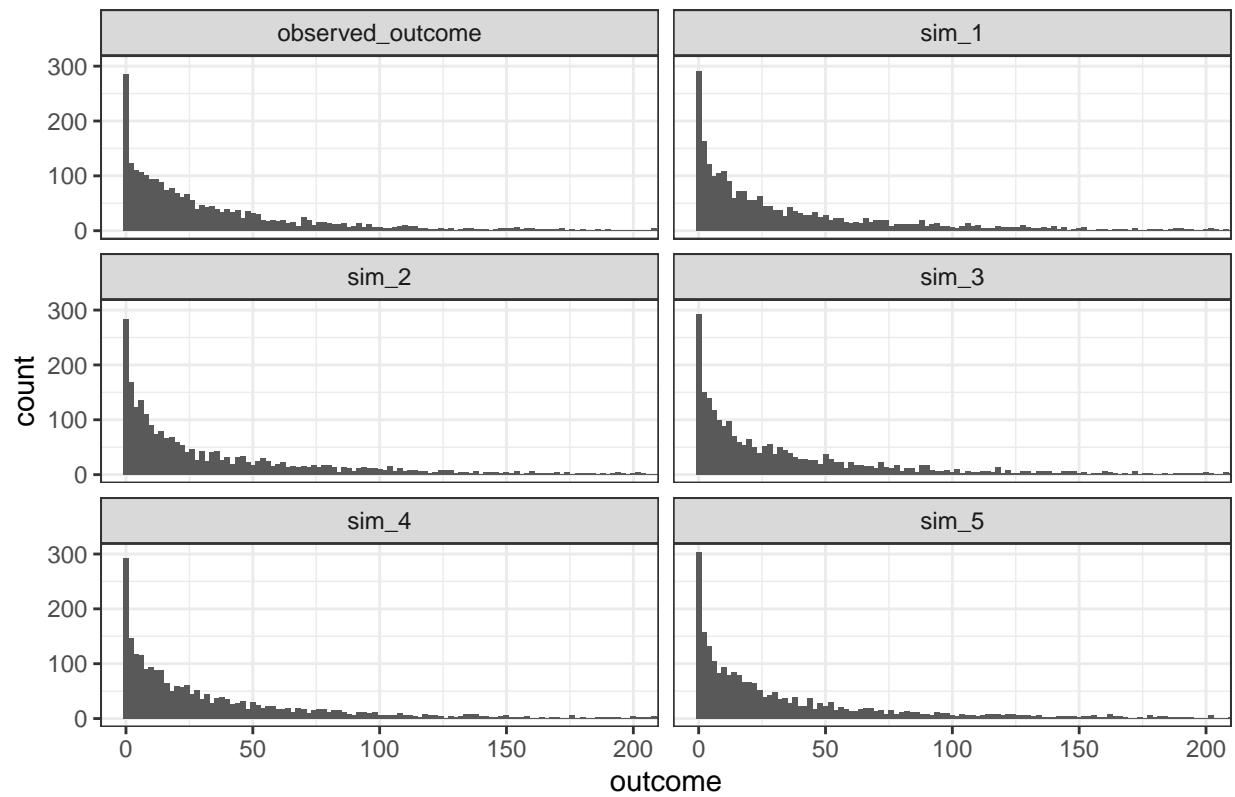


```
## Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Set1 is 9
## Returning the palette you asked for with that many colors
```


Predicted Number of citations for mbio
using two term fixed GLM

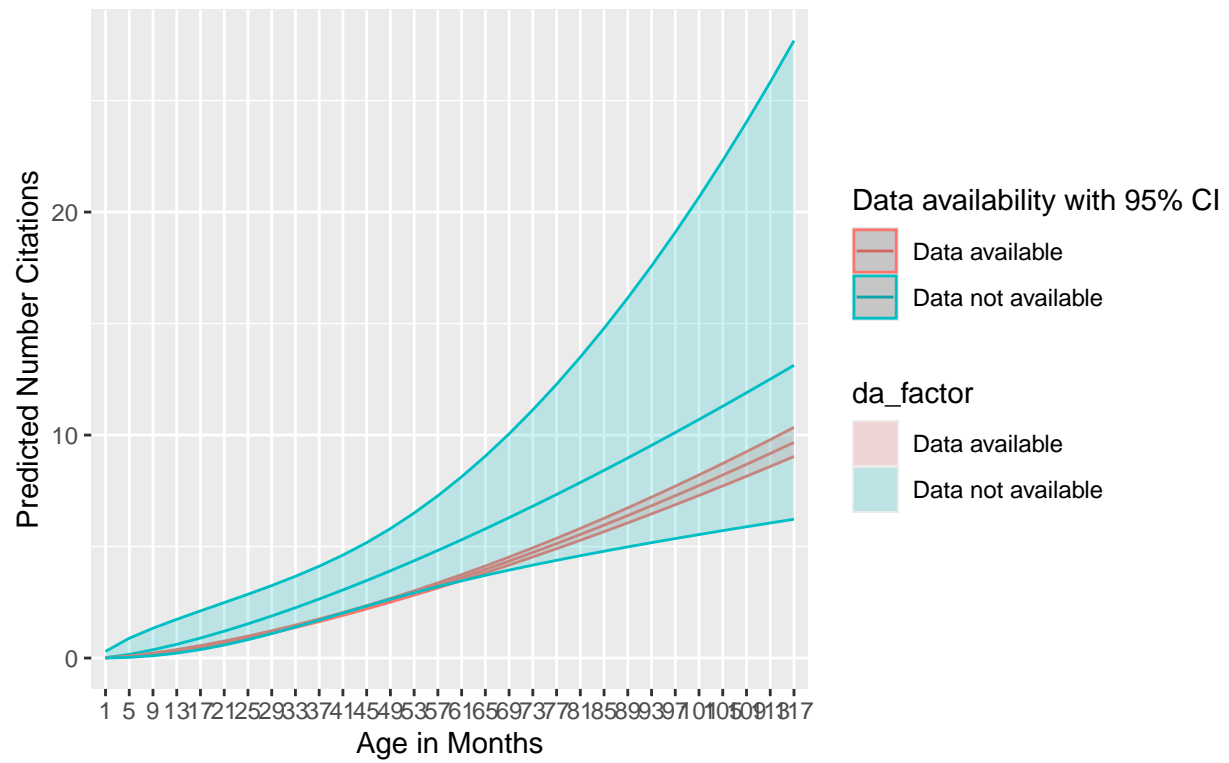


Marginal Predictive Check for journal mbio

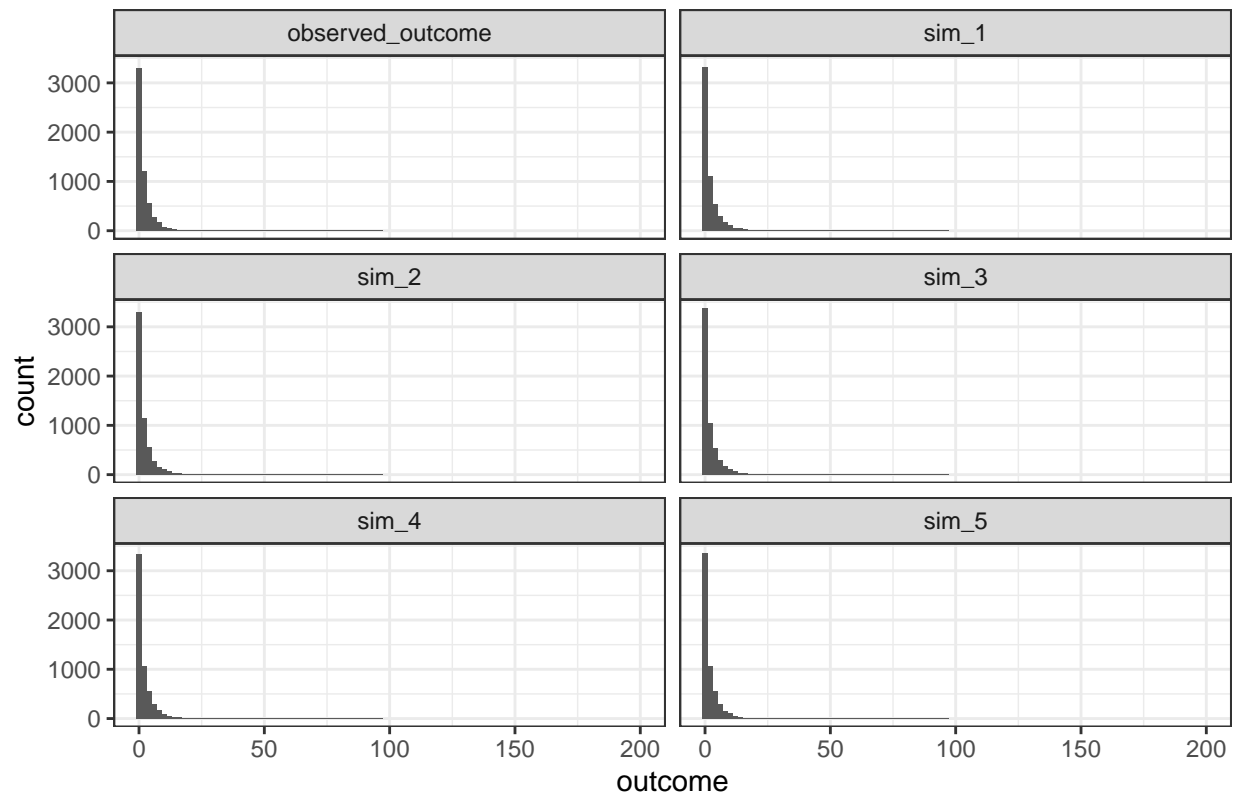


```
## Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Set1 is 9
## Returning the palette you asked for with that many colors
```

Predicted Number of citations for mra
using two term fixed GLM

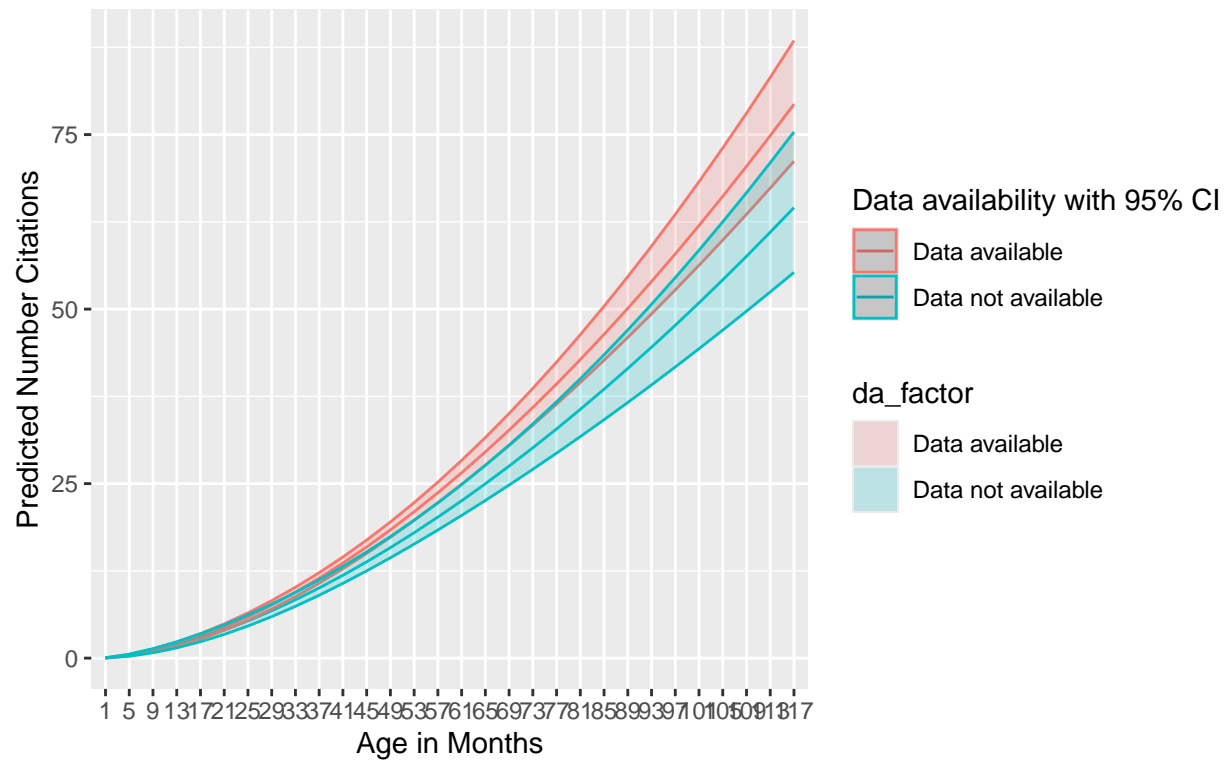


Marginal Predictive Check for journal mra

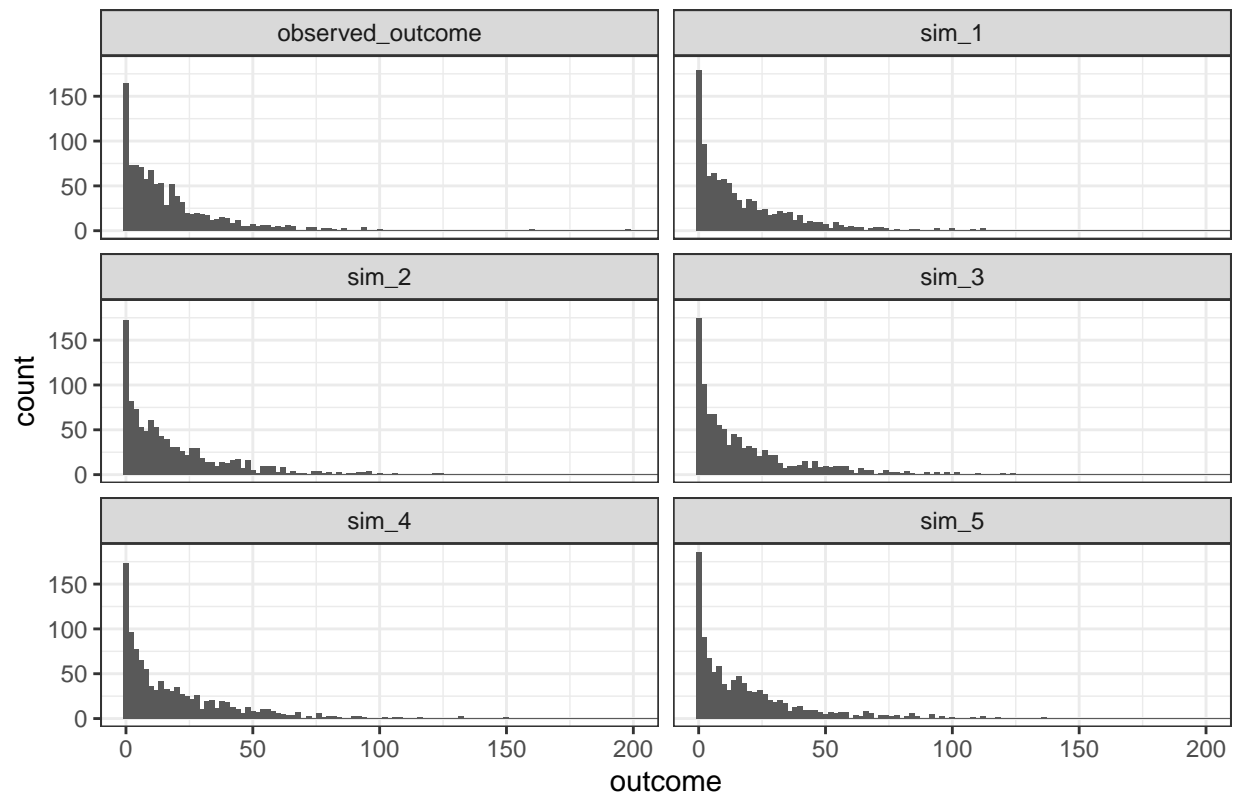


```
## Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Set1 is 9
## Returning the palette you asked for with that many colors
```

Predicted Number of citations for msphere
using two term fixed GLM

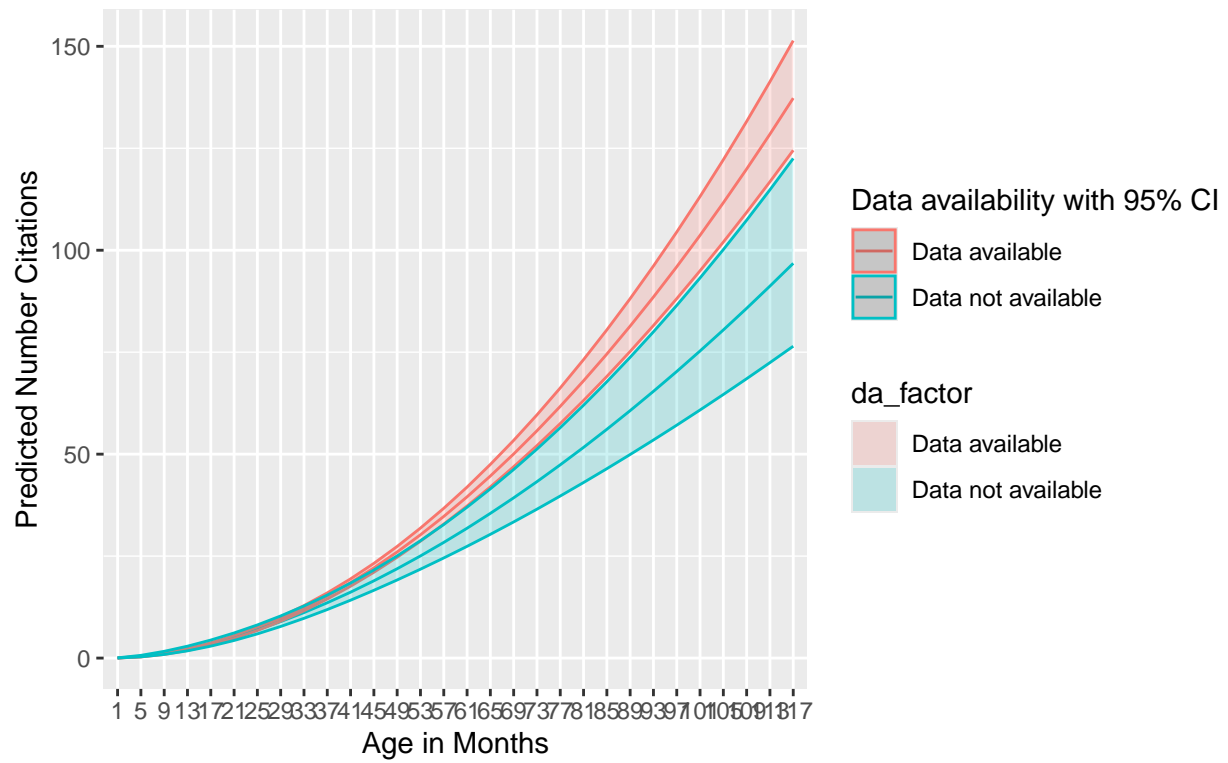


Marginal Predictive Check for journal msphere

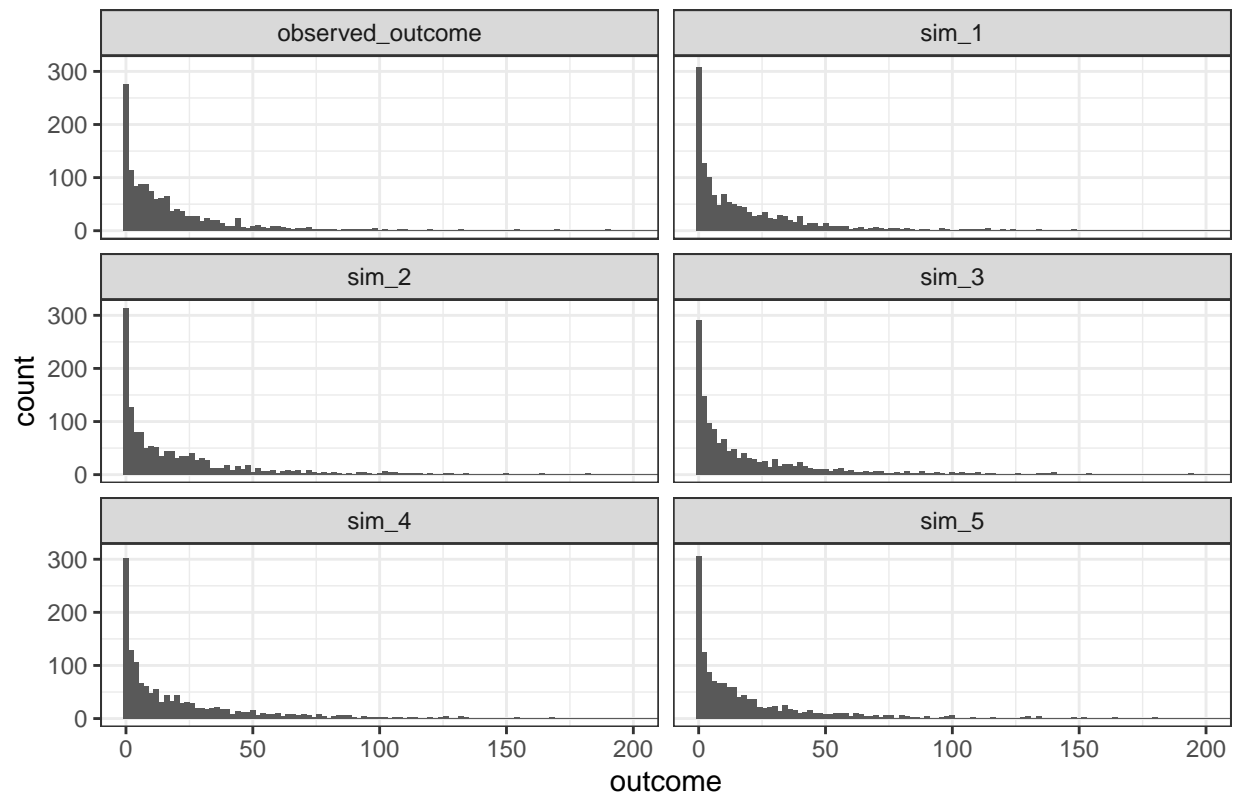


```
## Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Set1 is 9
## Returning the palette you asked for with that many colors
```

Predicted Number of citations for msystems
using two term fixed GLM

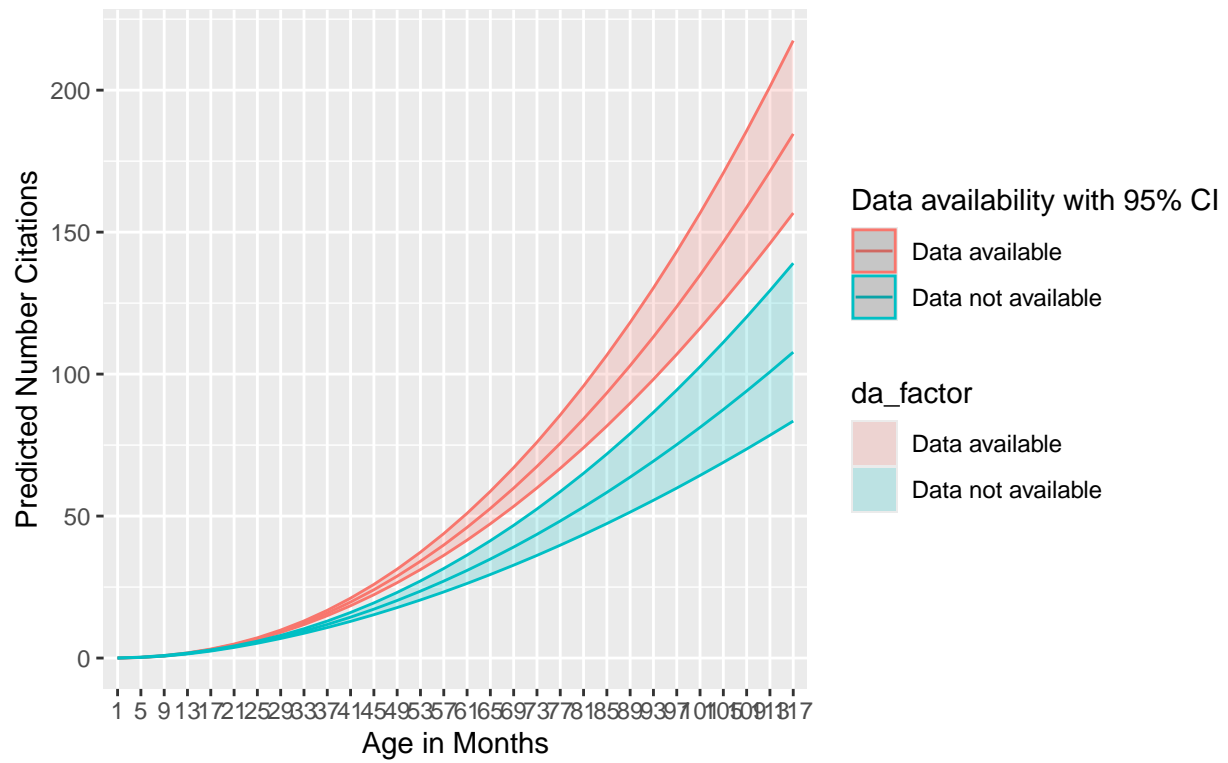


Marginal Predictive Check for journal msystems



```
## Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Set1 is 9
## Returning the palette you asked for with that many colors
```


Predicted Number of citations for spectrum
using two term fixed GLM



Marginal Predictive Check for journal spectrum

