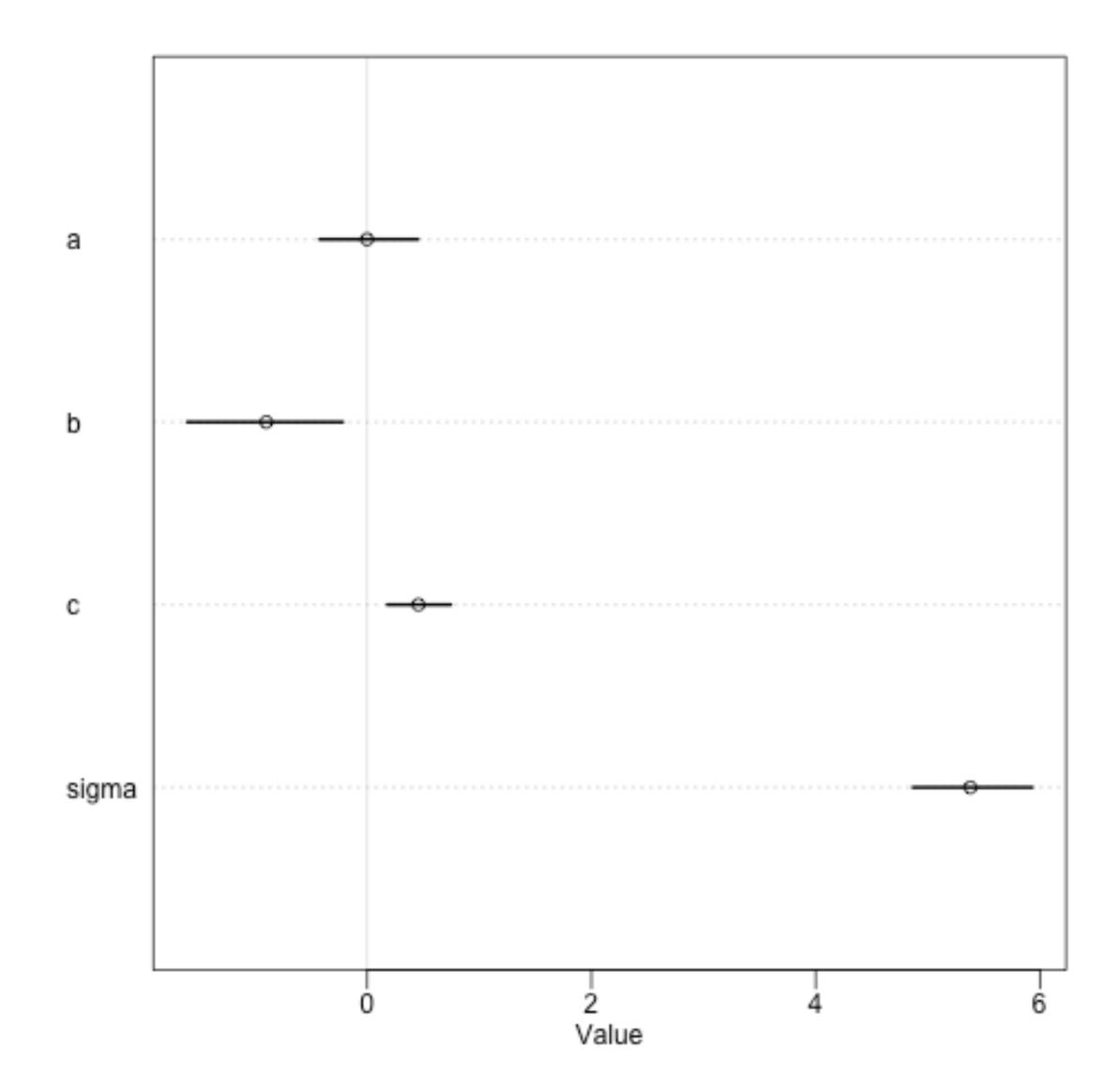
## Model fit

```
size_i \sim Normal(\mu_i, \sigma)

\mu_i = a + b \times toxin_i + c \times age_i
```



## Estimates and true values

## Simulation:

 $age_i = Uniform(0, 50)$ 

 $toxin_i = Normal(10 + 0.4 \times age_i, 1)$ 

 $size_i = Normal(30 - 1 \times toxin_i + 0.5 \times age_i, 5)$ 

## Model:

 $size_i \sim Normal(\mu_i, \sigma)$  $\mu_i = a + b \times toxin_i + c \times age$ 

Exercise: What happens if we don't include age?

