

## MossbridgeUpdate Syntax

### Frequentist multilevel random model

```
library(robumeta)

# Load data
# Run intercept only model.

MA_intercept <- robu(formula = data$g ~ 1, data = data,
                     studynum = ExpID, var.eff.size = data$vg,
                     rho = 0.8, modelweights = "CORR", small = TRUE)

print (MA_intercept)

sensitivity(MA_intercept) # Output sensitivity

#Assink et al. 2016 method

yi<-data$g
vi=data$vg
n <- length(data$g)

library(metafor)
rma <- rma.mv(yi, vi, random = list(~ 1 | esID, ~ 1 | ExpID), tdist=
             F, data=data)

summary(rma, digits=3)

rmasub <- rma.mv(yi, vi, random = list(~ 1 | esID, ~ 1 | ExpID), tdist=
               F, data=data, subset=PeerRev=="yes")

summary(rmasub, digits=3)
```

### Bayesian Random Mixed Models

```
library(brms)

# subset data if necessary
data <- subset(data, PeerRev == "no")

# multilevel random effect
data$seg <- data$se
data$obs <- 1:nrow(data)
```

```
fit <- brm(g | se(seg) ~ 1 + (1|ExpID),
           prior=set_prior("normal(0,5)", "Intercept"), data=data,control = list(a
dapt_delta = 0.99),
           chains=4,iter = 20000, warmup = 2000, thin= 2, cores = 4)

summary(fit,waic=T, priors=T)
```