## manMCMedMiss: Staging

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Staging...

#### References

R Core Team. (2022). R: A language and environment for statistical computing. R Foundation for Statistical Computing. Vienna, Austria. https://www.R-project.org/

#### 1 MI

```
library(mice)
#>
#> Attaching package: 'mice'
#> The following object is masked from 'package:stats':
#>
#>
#> The following objects are masked from 'package:base':
#>
       cbind, rbind
mi <- complete(</pre>
 mice(
    elliot2007,
   method = "norm",
   m = 100,
   print = FALSE,
    seed = 42
 ),
 action = "all"
library(lavaan)
#> This is lavaan 0.6-12
#> lavaan is FREE software! Please report any bugs.
```

```
model <- "
y~x+b*m
m~a*x
fit <- lapply(</pre>
 X = mi,
 FUN = function(data,
                model) {
  sem(
    model = model,
    data = data
 model = model
param_vec <- lapply(</pre>
X = fit,
 FUN = function(fit) {
  coef(fit)
)
var_mat <- lapply(</pre>
X = fit,
FUN = function(fit) {
  vcov(fit)
)
mi <- MICombine(</pre>
param_vec = param_vec,
var_mat = var_mat
set.seed(42)
R = 20000
mc <- MASS::mvrnorm(</pre>
n = R,
mu = mi$estimates,
Sigma = mi$total
)
stats::quantile(
mc[, "a"] * mc[, "b"],
probs = c(0.025, 0.975)
#> 2.5% 97.5%
#> 0.01236716 0.11813687
```

# 2 FIML