

RCodes

Overall Effect Size Calculation

```
library(meta)
library(metafor)
# Loading
library("readxl")
# xls files
data <- read_excel ("Reviewed_database_for_R.xlsx")

# Random-effects meta-analysis with pre-calculated estimates (SMD) and using
DerSimonian and Laird method

m.hksj <- metagen(data$SMD,
                     data$se,
                     data=data,
                     studl ab=paste(data$Study),
                     comb. fi xed = FALSE,
                     comb. random = TRUE,
                     method. tau = "DL",
                     hakn = TRUE,
                     predi ction=TRUE,
                     sm="SMD")
```

SUBgroup Analyses

```
## Example for Households vs. Individuals
x.sub1 <- subset(data, data$Households==1)
x.sub2 <- subset(data, data$Households==0)

m.sub1<-metagen(x. sub1$SMD,
                  x. sub1$se,
                  data=x. sub1,
                  studl ab=paste(x. sub1$Study),
                  comb. fi xed = FALSE,
                  comb. random = TRUE,
                  method. tau = "DL",
                  hakn = TRUE,
                  predi ction=TRUE,
                  sm="SMD")

m. sub2<-metagen(x. sub2$SMD,
                  x. sub2$se,
                  data=x. sub2,
                  studl ab=paste(x. sub2$Study),
                  comb. fi xed = FALSE,
                  comb. random = TRUE,
                  method. tau = "DL",
                  hakn = TRUE,
                  predi ction=FALSE,
                  sm="SMD")
```

Funnel Plot

```
## Small-study bias
funnel (m.hksj , xlab="Effect estimate",
```

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```

col = "black", cex=1.5, lines="red", bg='black', ylim=(c(1.1, 0)),
contour = c(.95, .975, .99), col.contour=c("darkgray", "gray", "lightgray"))+
legend(1.4, 0, c("Studies", "< 0.01", "p<0.025", "p < 0.05", "p>0.05"), bty = "o",
pch=c(16, NA, NA, NA),
fill=c("white", "lightgray", "gray", "darkgray", "white"), bg='white', border =
"black")

```

Cumulative Meta-analyses

```

#Fit a simple random-effects meta-analytic model
random = rma(yi=data$SMD, vi=data$se, method="DL",
test="t", slab=paste(data$Study), tau2="TRUE")
tmp <- cumul(random, order=order(data$Year), transf=TRUE)
forest(tmp, xlim=c(-4, 2), at=(c(-2, -1, -0.5, -.1, 0)),
digits=c(2, 2), cex=0.5, yaxt="n")

```