

```

CF1 <- read.csv("CF1.csv")
CF2 <- read.csv("CF2.csv")

mat1 <- as.matrix(CF1)
mat2 <- as.matrix(CF2)

dimnames(mat1)[[1]] <- dimnames(mat1)[[2]] <- c("BO", "STS")
dimnames(mat2)[[1]] <- dimnames(mat2)[[2]] <- c("BO", "STS")

matrix.list <- list(mat1, mat2)
names(matrix.list) <- c("Sodeke-Gregson et al., 2013", "Deighton et al., 2007")
n <- c(253,100)
all.data <- list(matrix.list, n)

library(metaSEM)

cfa1 <- tssem1(all.data[[1]], all.data[[2]], method="REM", RE.type = "Diag")
summary(cfa1)

##
## Call:
## meta(y = ES, v = acovR, RE.constraints = Diag(paste0(RE.startvalues,
##           "*Tau2_", 1:no.es, "_", 1:no.es)), RE.lbound = RE.lbound,
##           I2 = I2, model.name = model.name, suppressWarnings = TRUE,
##           silent = silent, run = run)
##
## 95% confidence intervals: z statistic approximation (robust=FALSE)
## Coefficients:
##             Estimate Std. Error    lbound    ubound z value Pr(>|z|)
## Intercept1 0.628613  0.129048  0.375684  0.881542 4.8712 1.109e-06 ***
## Tau2_1_1   0.029929  0.033275 -0.035289  0.095148 0.8994   0.3684
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Q statistic on the homogeneity of effect sizes: 20.09591
## Degrees of freedom of the Q statistic: 1
## P value of the Q statistic: 7.36542e-06
##
## Heterogeneity indices (based on the estimated Tau2):
##             Estimate
## Intercept1: I2 (Q statistic)  0.9003
##
## Number of studies (or clusters): 2
## Number of observed statistics: 2
## Number of estimated parameters: 2
## Degrees of freedom: 0
## -2 log likelihood: -1.130132
## OpenMx status1: 0 ("0" or "1": The optimization is considered fine.
## Other values may indicate problems.)

dims <- c("BO", "STS", "CF")
mat<-matrix(rep(0, 3*3), nrow=3, ncol=3)
dimnames(mat)[[1]]<-dimnames(mat)[[2]]<-dims

```

```

mat

##      BO  STS  CF
## BO    0    0    0
## STS   0    0    0
## CF    0    0    0
A <- matrix(c(0,0,"0.3*CF",0,0,"0.3*CF",0,0,0),nrow=3,ncol=3,byrow=TRUE)
dimnames(A)[[1]]<-dimnames(A)[[2]]<-dims
A

##      BO  STS  CF
## BO  "0" "0" "0.3*CF"
## STS "0" "0" "0.3*CF"
## CF  "0" "0" "0"
A<-as.mxMatrix(A)

Vars <- Diag(c("0.2*var_B0", "0.2*var_STS"))
Cors <- matrix(1,nrow=1,ncol=1)
S <- bdiagMat(list(Vars, Cors))
dimnames(S)[[1]] <- dimnames(S)[[2]] <- dims
S

##      BO          STS          CF
## BO  "0.2*var_B0" "0"          "0"
## STS "0"          "0.2*var_STS" "0"
## CF  "0"          "0"          "1"
S <- as.mxMatrix(S)

F <- Diag(c(1, 1, 0))
F <- F[1:2,]
dimnames(F)[[1]] <- dims[1:2]
dimnames(F)[[2]] <- dims
F

##      BO  STS  CF
## BO  1    0    0
## STS 0    1    0
F <- as.mxMatrix(F)
cfa2 <- tssem2(cfa1, Amatrix = A, Smatrix = S, Fmatrix = F, diag.constraints = FALSE)
summary (cfa2)

##
## Call:
## wls(Cov = pooledS, aCov = aCov, n = tssem1.obj$total.n, RAM = RAM,
##     Amatrix = Amatrix, Smatrix = Smatrix, Fmatrix = Fmatrix,
##     diag.constraints = diag.constraints, cor.analysis = cor.analysis,
##     intervals.type = intervals.type, mx.algebras = mx.algebras,
##     model.name = model.name, suppressWarnings = suppressWarnings,
##     silent = silent, run = run)
##
## 95% confidence intervals: z statistic approximation

```

```

## Coefficients:
##   Estimate Std. Error  lbound  ubound z value Pr(>|z|)
## CF 0.792851  0.081382 0.633345 0.952357  9.7423 < 2.2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Goodness-of-fit indices:
##                               Value
## Sample size                  353.000
## Chi-square of target model    0.000
## DF of target model           0.000
## p value of target model      1.000
## Number of constraints imposed on "Smatrix" 0.000
## DF manually adjusted        0.000
## Chi-square of independence model 23.728
## DF of independence model     1.000
## RMSEA                         0.000
## RMSEA lower 95% CI            0.000
## RMSEA upper 95% CI            0.000
## SRMR                          0.000
## TLI                           NA
## CFI                           1.000
## AIC                           0.000
## BIC                           0.000
## OpenMx status1: 0 ("0" or "1": The optimization is considered fine.
## Other values indicate problems.)

```