

While we've posted most of the calculations from our analysis in a spreadsheet (see: [Mental Health - Meta Analysis](#) in the [metapsy r results spreadsheet](#)), we haven't had time to format it in a way that is easy to read. R data is labeled metapsy r results

The easiest way to directly replicate our findings, to test small changes, or to update the findings after more studies have been updated to the database is using the [metapsyData and metapsyTools R Packages](#). Contact us if you need help.

#Installation. You will need to run the code in this section before doing anything else or you will get an error. Subsequent code sections can be run in any order.

```
if (!require("devtools"))
  install.packages("devtools")

devtools::install_github("metapsy-project/metapsyData")

if (!require("remotes"))
  install.packages("remotes")

remotes::install_github(
  "metapsy-project/metapsyTools")

library(metapsyTools)
library(metapsyData)
library(dplyr)
library(meta)
```

#headline finding of 0.41, see trim-and-fill column

```
getData("depression-psyctr") %>%
  filterPoolingData(rob==4) %>%
  runMetaAnalysis("outliers") %>%
  correctPublicationBias()
```

#You can filter for any factor listed in METAPSY's [variable descriptions](#).

#in this example, we filter clinical samples with care as usual control groups, with risk of bias 4. Replace the contents of filterPoolingData with your preferred variables.

```
getData("depression-psyctr") %>%  
  filterPoolingData(rob==4,condition_arm2!="cau"&recruitment!="clin") %>%  
  runMetaAnalysis("outliers") %>%  
  correctPublicationBias()
```

Runs meta analyses and meta regressions without removing outliers.

```
res=getData("depression-psyctr") %>%  
  filterPoolingData() %>%  
  runMetaAnalysis("overall") %>%  
  correctPublicationBias()  
res  
metaRegression(res$model.overall, ~ percent_women + format+condition_arm1)  
#add additional meta regressions here  
#see variable descriptions at metapsydata to add any factor to the metaregression
```

global poor dataset - we manually identified studies that pertained to the global poor.

```
getData("depression-psyctr") %>%  
  filterPoolingData(study %in%  
    c("Jordans, 2019",  
      "Nakimuli-Mpungu, 2015",  
      "Nakimuli-Mpungu, 2020",  
      "Safren, 2021",  
      "Sikander, 2019",  
      "Petersen, 2014",  
      "Abas, 2018",  
      "Rahman, 2008",  
      "Husain, 2017",  
      "Bolton, 2003",  
      "Husain, 2021a",  
      "Husain, 2021b",
```

```
      "Lund, 2019"),
      rob==4#|rob==3#|rob==2#|rob==1|rob==0
) %>% #un-comment rob terms to decrease rob stringency
runMetaAnalysis("outliers") %>%
correctPublicationBias()
```

effect sizes for a given number of sessions

```
res = getData("depression-psyctr") %>%
  filterPoolingData(rob==4,n_sessions_arm1 %in%
c("1","2","3","4","5","6","7","8","9","10","11","12","13","14","15","16","17","18
","19","20")) %>% #add or subtract the desired sessions
  runMetaAnalysis("overall") %>%
  correctPublicationBias()
Res
#run a metaregression over the filtered data
metaRegression(res$model.overall, ~ n_sessions_arm1)
```