# Traditional Meta-Analysis Tutorial

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### Introduction

The following script is designed to perform a traditional meta-analysis using the metafor package in R.

The analysis is based on data from Majeed et al. (2021) and focuses on the relationship between dyslexia and creativity. The original paper can be found here: https://doi.org/10.1002/dys.1677.

The script includes steps for data preparation, effect size calculation, overall effect size computation, forest plot generation, tests for publication bias, and moderation analysis.

The script is structured to be run in RStudio, and it includes comments to guide users through each step of the process.

## Setting Up

This section sets up the working environment, installs necessary packages, loads the required libraries, and reads in the data.

If the metafor package is not already installed, use the install.packages() function to install it.

#### Explanation of the Code

- The setwd() function sets the working directory to the location of the script, ensuring that all file paths are relative to the script's location.
- The library() function loads the metafor package.
- The options() function is used to adjust the display settings, specifically to disable scientific notation and set the number of digits displayed.
- The read.csv() function reads in the data from a CSV file named "DYSCRE.csv", which contains the data drawn from Majeed et al. (2021).

```
### Set Up ------
# R version 4.5.0

# Set working directory to that of script's current location
setwd(dirname(rstudioapi::getActiveDocumentContext()$path))

# Load packages
library(metafor) # version 4.8-0
```

## Loading required package: Matrix

```
## Loading required package: metadat

## Loading required package: numDeriv

##

## Loading the 'metafor' package (version 4.8-0). For an

## introduction to the package please type: help(metafor)

# Display settings (to disable scientific notation)

options(scipen = 9999, digits = 4)

# Read in data drawn from Majeed et al. 2021

tradmeta_raw = read.csv("DYSCRE.csv")
```

## Prepare Data

This section prepares the data for analysis by computing effect sizes for each study and organizing the data frame.

The tradmeta\_raw data frame does not include pre-computed effect sizes for each study. Therefore, the escalc() function from metafor package is used to calculate them.

For more information on the escalc() function, refer to ?escalc in R.

- The measure function specifies the type of effect size to be calculated, in this case, "SMD" (Standardized Mean Difference).
- The n1i and n2i function specify the columns for the sample sizes of each group
- The m1i and m2i function specify the columns for the means of each group.
- The sdli and sdli function specify the columns for the standard deviations of each group.
- Afterwards, the escalc() function computes the effect sizes (yi) and their corresponding sampling variances (vi) for each study.
- The tradmeta\$Creativity.Measure\_type variable is converted to a factor with specified levels to ensure that the creativity measure types are ordered correctly in the forest plot.
- The tradmeta\_raw data frame is then sorted by the type of creativity measure and corresponding effect sizes to facilitate clearer visualization in the forest plot.

```
### Prepare Data ------

# Compute effect sizes for each study
tradmeta = escalc(
    # Type of effect size measure
    measure = "SMD",

# Columns for sample size of each group
n1i = n_dys,
```

```
n2i = n_control,
  # Columns for means of each group
  m1i = Mean CRE dys,
  m2i = Mean CRE control,
  # Columns for standard deviation of each group
  sd1i = SD_CRE_dys,
  sd2i = SD_CRE_control,
  # Specify data.frame that the information will be extracted from
  data = tradmeta_raw
# Convert Creativity. Measure_type to a factor with specified levels
tradmeta$Creativity.Measure_type = factor(
  tradmeta$Creativity.Measure_type,
  levels = c("Verbal", "Mixed", "Non-verbal")
)
# Order the data frame by Creativity. Measure_type and effect sizes (yi)
tradmeta = tradmeta[order(tradmeta$Creativity.Measure_type, tradmeta$yi), ]
```

## Computing the Overall Effect size

This section estimates the overall effect size using the rma() function from the metafor package, based on the computed effect sizes (yi) and their corresponding sampling variances (vi).

For more information on the rma() function, refer to ?rma in R.

The results are summarized to provide detailed information about the meta-analysis.

- The tradmeta data frame contains the computed effect sizes (yi) and their corresponding sampling variances (vi).
- The yi column represents the effect size estimates, while the vi column represents the sampling variance for each effect size.
- The rma() function is used to perform a random-effects meta-analysis, which accounts for the variability between studies.
- The method function specifies the method used to estimate heterogeneity, in this case, "REML" (Restricted Maximum Likelihood).
- The summary() function is used to provide detailed results of the meta-analysis, including the overall effect size estimate, confidence intervals, and heterogeneity statistics.

```
### Compute Overall Effect size -----

tradmetaresults = rma(
    # Effect size estimates
```

```
yi = yi,
# Sampling variance
vi = vi,
# Specify method to estimate heterogeneity
method = "REML",
# Specify where to get the data from
data = tradmeta
)

# summary function used to provide detailed results of the meta-analysis
summary(tradmetaresults)
```

```
##
## Random-Effects Model (k = 13; tau^2 estimator: REML)
##
                          AIC
                                   BIC
                                           AICc
##
    logLik deviance
## -11.0151
            22.0302
                      26.0302
                               27.0000
                                         27.3635
##
## tau^2 (estimated amount of total heterogeneity): 0.2443 (SE = 0.1373)
## tau (square root of estimated tau^2 value):
                                                0.4943
## I^2 (total heterogeneity / total variability):
                                                77.16%
## H^2 (total variability / sampling variability): 4.38
## Test for Heterogeneity:
## Q(df = 12) = 42.9777, p-val < .0001
##
## Model Results:
##
## estimate
             se
                     zval
                            pval
                                    ci.lb
                                           ci.ub
##
    ##
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
```

## Forest Plot

This section generates a forest plot to visually represent the effect sizes and confidence intervals for each study included in the meta-analysis.

The forest plot is created using the forest() function from the metafor package.

The plot includes the following features:

- Arrangement of studies by effect sizes
- Sample size information for both dyslexia and control groups
- Custom headers for the plot
- Custom labels for the studies

Saving the forest plot as a PDF file allows for easy sharing and presentation, and allows adjustment to the plot's dimensions.

- The pdf() function starts the graphics device driver to create PDF files, and the file function specifies the name of the file.
- The width and height function adjust the dimensions of the PDF file.
- The forest() function is used to create the forest plot, and the tradmetaresults object contains the results of the meta-analysis.
- The order function specifies the arrangement of studies, with "obs" indicating that the studies should be arranged by effect sizes. To organise by column, replace "obs" with the specific column in the data frame.
- The ylim function sets the y-axis limits for the plot.
- The ilab function is used to add sample size information for both dyslexia and control groups into the forest plot.
- The cbind() function combines the columns indicating the sample size of the groups (dys and control).
- The ilab.xpos function specifies the horizontal arrangement of the columns.
- The slab function is used to label each effect size with its respective study, using the paste() function to combine the "Paper" and "Study" columns. The paste() function creates the label, and the sep function specifies the separator between the columns.
- The xlim function sets the x-axis limits for the plot.
- The alim function sets the confidence interval limits, and the steps function determines the number of intervals in the x-axis.
- The header function is set to FALSE to allow for manual specification of headers.
- The text() function is used to manually include text within the plot, such as the "Author(s) Year" header and specific sample size column headers.
- The x and y function in the text() function adjust the position of the headers, with the x function specifying the horizontal arrangement of the columns and the y function specifying the vertical arrangement of the columns.
- $\bullet$  The x function specifies the horizontal arrangement of the columns and the y function specifies the vertical arrangement of the columns.
- The font function adjusts the font size.
- The pos function in the text() function specifies the position of the text relative to the specified coordinates.
- The font function adjusts the font size.
- The dev.off() function is used to close the graphics device and finalize the plot as a saved file.

```
### Forest Plot ------
# Save the forest plot as a PDF file
# Name the pdf file of the forest plot
pdf(file = "tradforestplot.pdf", width = 11, height = 8)
# Start creating the forest plot itself
```

```
# Specify dataset
forest(
  tradmetaresults,
  # Arrangement of studies
  order = "obs",
  # Add y-axis limits
  ylim = c(-2, 16),
  # Add sample size information for dyslexia (n_dys) and control (n_control) group
  # -4.2 for Dslx (dyslexia Group)
  # -3.7 for Ctrl (control Group)
  ilab = cbind(n_dys, n_control),
  ilab.xpos = c(-4.2, -3.7),
  # Label studies on the forest plot
  slab = paste(Paper, paste("Study", Study), sep = ", "),
  # Add x-axis limits
  xlim = c(-8, 4),
  # Add confidence interval limits
  # Adjust intervals based on the number of steps
  alim = c(-2.5, 2.5),
  steps = 11,
  # Show (TRUE) or hide (FALSE) default headers
  # Hide when we want to manually specify our own headers
  header = FALSE,
  # Add label for confidence interval, in this case, "Hedge's g"
  xlab = "Hedge's g"
# For the following lines of code,
# Use text function to manually include text within the plot
# Add "Author(s) Year" header
text(x = -7.2, y = 14.5, "Author(s) Year", font = 2)
# Add "Sample Size" header
text(x = -4.0, y = 15, "Sample Size", font = 2)
# Add specific sample size column headers for dyslexia and control groups
\# x = -4.2 \text{ for } Dslx \text{ (dyslexia Group)}
\# x = -3.8 \text{ for Ctrl (control Group)}
# y = 14.5 \text{ for both}
text(c(x = -4.2, x = -3.7), y = 14.5, c("Dslx", "Ctrl"), font = 2)
# Add "g [95% CI]" header
text(x = 3.5, y = 14.5, "g [95\% CI]", font = 2)
```

```
# Close the forest plot and finalise it as a saved file
dev.off()

## pdf
## 2
```

### Tests for Publication Bias

This section performs tests for publication bias, including a funnel plot, rank correlation test and Egger's test.

#### Funnel Plot

The funnel plot visually represents the distribution of effect sizes and their standard errors, allowing for the identification of potential publication bias. Saving the funnel plot as a PDF file allows for easy sharing and presentation, and allows adjustment to the plot's dimensions.

- The pdf() function starts the graphics device driver to create PDF files, and the file function specifies the name of the file.
- The width and height function adjust the dimensions of the PDF file.
- The funnel() function is used to create the funnel plot, and the tradmetaresults object contains the results of the meta-analysis.
- The legend function specifies whether to include a legend in the plot. TRUE indicates that a legend should be included, FALSE indicates that it should not.
- The xlab function specifies the confidence interval label for the funnel plot, in this case, "Hedge's g"
- The dev.off() function is used to close the graphics device and finalize the plot as a saved file.

```
### Tests for Publication Bias ------
# Funnel Plot #

# Save the funnel plot as a PDF file
# Name the pdf file of the funnel plot
# Adjust the width and height of the pdf file
pdf(file = "tradfunnelplot.pdf", width = 8, height = 5)
# funnel function to create the funnel plot, specify the data to create the plot
funnel(tradmetaresults, legend = TRUE, xlab = "Hedge's g")
# Close the funnel plot and finalise it as a saved file
dev.off()
```

```
## pdf
## 2
```

#### Rank Correlation Test

The rank correlation test serves as a complementary method to the funnel plot in assessing publication bias by examining the correlation between effect sizes and their standard errors.

#### Explanation of the Code

- The ranktest() function computes the Kendall tau value, which indicates the strength and direction of the association between the ranks of effect sizes and their standard errors.
- The tradmetaresults object contains the results of the meta-analysis, and the ranktest() function returns the Kendall tau value and its significance level.

```
### Tests for Publication Bias -----
# Rank Correlation Test #
ranktest(tradmetaresults)

##
## Rank Correlation Test for Funnel Plot Asymmetry
##
## Kendall's tau = -0.2308, p = 0.3062
```

### Egger's Test

The Egger's test is a statistical test that quantifies the degree of asymmetry in the funnel plot, providing a more formal assessment of publication bias.

- The tradmeta\$sei\_corrected variable is created to store the corrected standard error for each effect size, calculated using the formula  $\sqrt{\frac{(n_{dys}+n_{control})}{(n_{dys}\cdot n_{control})}}$ . Using Egger' test (unadjusted) on SMDs results in inflated type 1 error as SMD and SE are not independent. Hence, use corrected formula for SE.
- The rma() function is used to perform Egger's test, with the yi and vi functions specifying the effect size estimates and their corresponding sampling variances.
- The mods function specifies the moderator variable, which is the corrected standard error in this case.
- The weights function specifies the weight for each effect size, which is the inverse of the corrected standard error squared.
- The data function specifies the dataset to be used for the analysis.
- The summary() function provides the results of the Egger's test, including the slope estimate and its significance.

```
### Tests for Publication Bias -----
# Egger's Test #
# Calculate standard error (SE)
```

```
tradmeta$sei_corrected = with(
  tradmeta,
  sqrt((n_dys + n_control) / (n_dys * n_control))
)
rma(
  # Effect size estimates
 yi = yi,
  # Sampling variance
 vi = vi,
  # Indicate moderator which is SE/sei corrected
  mods = ~sei_corrected,
  # Indicate weight which is inverse SE^2
  weights = 1 / sei_corrected^2,
  # Specify dataset
  data = tradmeta
) |>
  # Estimate of interest is the intercept
  summary()
```

```
## Mixed-Effects Model (k = 13; tau^2 estimator: REML)
##
##
     logLik deviance
                            AIC
                                      BIC
                                               AICc
## -10.5945
              21.1890
                        27.1890
                                  28.3827
                                            30.6176
## tau^2 (estimated amount of residual heterogeneity):
                                                            0.2800 \text{ (SE = } 0.1613)
## tau (square root of estimated tau^2 value):
                                                            0.5291
## I^2 (residual heterogeneity / unaccounted variability): 77.97%
## H^2 (unaccounted variability / sampling variability):
                                                            4.54
## R^2 (amount of heterogeneity accounted for):
                                                            0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 11) = 42.5985, p-val < .0001
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.0673, p-val = 0.7954
## Model Results:
##
##
                  estimate
                                se
                                       zval
                                               pval
                                                        ci.lb
                                                                ci.ub
                                                    -1.0984
## intrcpt
                    0.2830 0.7048
                                     0.4016 0.6880
                   -0.6105 2.3539
                                    -0.2594 0.7954 -5.2240 4.0030
## sei_corrected
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

# **Moderation Analysis**

This section performs moderation analysis to explore the influence of different moderators on the effect sizes. It includes both continuous and categorical moderators.

### Explanation of the Code

- The rma() function is used to perform the moderation analysis, and the yi and vi functions specify the effect size estimates and their corresponding sampling variances.
- The mods function specifies the moderator variable, which can be either continuous or categorical.
- The method function specifies the method used to estimate heterogeneity, in this case, "REML" (Restricted Maximum Likelihood).
- The data function specifies the dataset to be used for the analysis.
- The **subset** function is used to specify the subset of data for categorical moderators, allowing for separate analyses for each category.

```
### Moderation Analysis ------

# Continuous variable (i.e., female proportion)
rma(
    yi = yi,
    vi = vi,
    # Specify continuous moderator (i.e., sex)
    mods = ~Proportion.of.female,
    method = "REML",
    data = tradmeta
)
```

## Warning: 2 studies with NAs omitted from model fitting.

```
## Mixed-Effects Model (k = 11; tau^2 estimator: REML)
##
## tau^2 (estimated amount of residual heterogeneity):
                                                            0.3157 \text{ (SE = } 0.1942)
## tau (square root of estimated tau^2 value):
                                                            0.5619
## I^2 (residual heterogeneity / unaccounted variability): 79.02%
## H^2 (unaccounted variability / sampling variability):
                                                            4.77
## R^2 (amount of heterogeneity accounted for):
                                                            0.00%
##
## Test for Residual Heterogeneity:
## QE(df = 9) = 40.1340, p-val < .0001
##
## Test of Moderators (coefficient 2):
## QM(df = 1) = 0.8519, p-val = 0.3560
##
## Model Results:
##
##
                                                                       ci.ub
                         estimate
                                              zval
                                                      pval
                                                               ci.lb
                                       se
## intrcpt
                          -0.6211 0.7645
                                           -0.8124
                                                    0.4165
                                                             -2.1196
                                                                     0.8773
## Proportion.of.female
                           1.7058 1.8481
                                            0.9230 0.3560 -1.9163 5.3279
##
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

```
# Categorical variable (i.e., type of creativity measure)
rma(
 yi = yi,
 vi = vi,
  # Specify categorical moderator (i.e., verbal)
 subset = (Creativity.Measure_type == "Verbal"),
 method = "REML",
 data = tradmeta
)
##
## Random-Effects Model (k = 3; tau^2 estimator: REML)
## tau^2 (estimated amount of total heterogeneity): 0.9624 (SE = 1.0886)
## tau (square root of estimated tau^2 value):
## I^2 (total heterogeneity / total variability):
                                                   88.45%
## H^2 (total variability / sampling variability): 8.65
## Test for Heterogeneity:
## Q(df = 2) = 16.6463, p-val = 0.0002
## Model Results:
##
## estimate
              se
                    zval
                             pval
                                      ci.lb ci.ub
## -0.4111 0.6024 -0.6824 0.4950 -1.5917 0.7696
##
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
rma(
 yi = yi,
 vi = vi,
 # Specify categorical moderator (i.e., mixed)
 subset = (Creativity.Measure_type == "Mixed"),
 method = "REML",
  data = tradmeta
)
## Random-Effects Model (k = 5; tau^2 estimator: REML)
## tau^2 (estimated amount of total heterogeneity): 0.0690 (SE = 0.0860)
## tau (square root of estimated tau^2 value):
                                                   0.2626
## I^2 (total heterogeneity / total variability):
## H^2 (total variability / sampling variability): 2.52
## Test for Heterogeneity:
## Q(df = 4) = 10.4551, p-val = 0.0334
##
## Model Results:
##
## estimate
               se zval pval
                                     ci.lb
## 0.2947 0.1568 1.8799 0.0601 -0.0125 0.6019
```

```
##
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
rma(
 yi = yi,
  vi = vi,
  # Specify categorical moderator (i.e., non-verbal)
  subset = (Creativity.Measure_type == "Non-verbal"),
 method = "REML",
  data = tradmeta
)
##
## Random-Effects Model (k = 5; tau^2 estimator: REML)
##
## tau^2 (estimated amount of total heterogeneity): 0.1221 (SE = 0.1676)
## tau (square root of estimated tau^2 value):
                                                    0.3495
## I^2 (total heterogeneity / total variability):
                                                    51.69%
## H^2 (total variability / sampling variability):
## Test for Heterogeneity:
## Q(df = 4) = 8.2822, p-val = 0.0818
##
## Model Results:
##
## estimate
                       zval
                              pval
                se
                                       ci.lb
                                               ci.ub
##
    0.1600 0.2178 0.7344
                            0.4627
                                    -0.2669
                                              0.5868
##
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
```

### Forest Plot of Moderators

This section generates a forest plot that includes moderators to visually represent the effect sizes and confidence intervals for each study included in the meta-analysis.

The plot is saved as a PDF file for easy sharing and presentation.

The forest plot includes the following features:

- Arrangement of studies by effect sizes and types of moderators
- Sample size information for both dyslexia and control groups
- Custom headers for the plot
- Custom labels for the studies
- Summary effect sizes for each moderator

- The pdf() function starts the graphics device driver to create PDF files, and the file function specifies the name of the file.
- The width and height function adjust the dimensions of the PDF file.
- The forest() function is used to create the forest plot, and the tradmetaresults object contains the results of the meta-analysis.
- The rows function specifies the arrangement of studies by creativity measure type, and in ascending order of effect sizes per creativity measure type.
- The ylim function sets the y-axis limits for the plot.
- The ilab function is used to add sample size information for both dyslexia and control groups into the forest plot.
- The cbind() function combines the columns indicating the sample size of the groups (dys and control).
- The ilab.xpos function specifies the horizontal arrangement of the columns, while the xlim function sets the x-axis limits for the plot.
- The slab function is used to label each effect size with its respective study, using the paste() function to combine the "Paper" and "Study" columns.
- The paste() function creates the label, and the sep function specifies the separator between the columns.
- The alim function sets the confidence interval limits, and the steps function determines the number
  of intervals in the x-axis.
- The header function is set to FALSE to allow for manual specification of headers.
- The xlab function specifies the label for the confidence interval, in this case, "Hedge's g".
- The text() function is used to manually include text within the plot, such as the "Author(s) Year" header and specific sample size column headers.
- The x and y functions in the text() function adjust the position of the headers.
- The x function specifies the horizontal arrangement of the columns and the y function specifies the vertical arrangement of the columns.
- The font function adjusts the font size.
- The pos function specifies the position of the text relative to the specified coordinates.
- The rma() function is used to perform moderation analysis for each type of creativity measure, with the subset function specifying the subset of data for each category.
- The res.v, res.n, and res.m variables store the results of the moderation analysis for verbal, non-verbal, and mixed creativity measures, respectively.
- The subset function is used to specify the subset of data for categorical moderators, allowing for separate analyses for each category.
- The addpoly() function is used to add summary effect sizes for each of the moderators, with the row function specifying the position of the summary in the plot.
- The dev.off() function is used to close the graphics device and finalize the plot as a saved file.

```
### Forest Plot of Moderators ---
# Save the forest plot as a PDF file
# Name the pdf file of the forest plot
# Adjust the width and height of the pdf file
pdf(file = "tradforestplotwithmoderators.pdf", width = 11, height = 9)
# Start creating the forest plot itself
# Specify dataset
forest(
  tradmetaresults,
  # Manually arrange effect sizes by creativity measure type
  # - Verbal: Rows 20 to 18
  # - Mixed: Rows 14 to 10
  # - Non-verbal: Rows 6 to 2
  \# The arrangement must consider spacing and must end at row 2
  rows = c(20:18, 14:10, 6:2),
  # Add y-axis limits
  ylim = c(-2, 24),
  # Add sample size information for dyslexia (n_dys) and control (n_control) group
  # -3.8 for Dslx (dyslexia Group)
  # -3.3 for Ctrl (control Group)
  ilab = cbind(n_dys, n_control),
  ilab.xpos = c(-3.8, -3.3),
  # Label studies on the forest plot
  slab = paste(Paper, paste("Study", Study), sep = ", "),
  \# Add x-axis limits
  xlim = c(-7, 4),
  # Add confidence interval limits
  # Adjust intervals based on the number of steps
  alim = c(-1.5, 1.5),
  steps = 11,
  # Remove headers (if any), for manual input
  header = FALSE,
  # Add label for confidence interval, in this case, "Hedge's g"
  xlab = "Hedge's g"
# For the following lines of code,
# Use text function to manually include text within the plot
# Add text labels for moderator (type of creativity task)
# Labels for different creativity task types (Moderator Analysis)
\# - "Non-verbal" at y = 7
\# - "Mixed" at y = 15
```

```
\# - "Verbal" at y = 21
text(
 x = -7,
 y = c(7, 15, 21),
 pos = 4,
 c("Non-verbal", "Mixed", "Verbal"),
 font = 2
# Moderation analysis
res.v = rma(
  yi,
  vi,
  subset = (Creativity.Measure_type == "Verbal"),
 data = tradmeta
)
res.n = rma(
 уi,
 subset = (Creativity.Measure_type == "Non-verbal"),
 data = tradmeta
res.m = rma(
  уi,
  vi,
 subset = (Creativity.Measure_type == "Mixed"),
 data = tradmeta
)
# Add summary effect sizes for each of the moderators
addpoly(res.n, row = 1) # summary effect for "non-verbal" group
addpoly(res.m, row = 9) # summary effect for "mixed" group
addpoly(res.v, row = 17) # summary effect for "verbal" group
# Add "Author(s) Year" header
text(x = -6.3, y = 23, "Author(s) Year", font = 2)
# Add "Sample Size" header
text(x = -3.6, y = 23.7, "Sample Size", font = 2)
# Add specific sample size column headers for dyslexia and control groups
# x = -3.8 for Dslx (dyslexia Group)
\# x = -3.3 \text{ for Ctrl (control Group)}
# y = 23  for  both
text(c(x = -3.8, x = -3.3), y = 23, c("Dslx", "Ctrl"), font = 2)
# Add "g [95% CI]" header
text(x = 3.5, y = 23, "g [95\% CI]", font = 2)
# Close the forest plot and finalise it as a saved file
dev.off()
```

## pdf

## 2

End of Code