Final Code

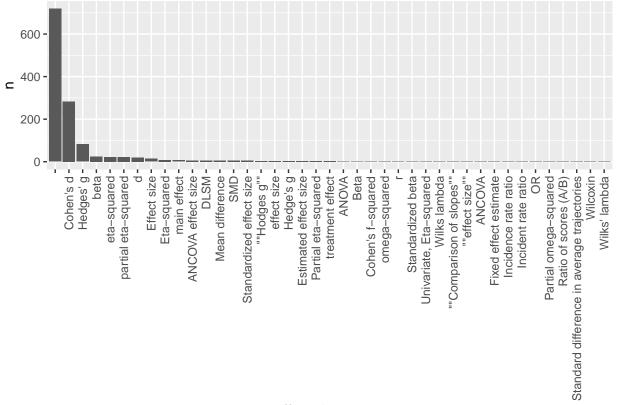
2023-05-09

```
library(tidyverse)
## -- Attaching packages -
                                                    ----- tidyverse 1.3.2 --
## v ggplot2 3.4.0
                       v purrr
                                  0.3.5
## v tibble 3.1.8
                       v dplyr
                                 1.0.10
## v tidyr
           1.2.1
                       v stringr 1.4.1
## v readr
           2.1.3
                        v forcats 0.5.2
                                                ----- tidyverse_conflicts() --
## -- Conflicts -----
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                     masks stats::lag()
library(rio)
library(janitor)
##
## Attaching package: 'janitor'
## The following objects are masked from 'package:stats':
##
       chisq.test, fisher.test
library(broom)
library(stargazer)
##
## Please cite as:
##
## Hlavac, Marek (2022). stargazer: Well-Formatted Regression and Summary Statistics Tables.
   R package version 5.2.3. https://CRAN.R-project.org/package=stargazer
Data Downloading and Cleaning
ptsd_comparison <- import("PTSD_Outcome_Comparisons_Between_Treatment_Arms.csv")</pre>
# git_survey <- import("survey_results_public.csv")</pre>
ptsd_comparison <- ptsd_comparison %>%
  clean_names()
ptsd comparison <- ptsd comparison %>%
  mutate(bias_number = ifelse(risk_of_bias_rating_study_level == "High", 3, 2))
ptsd_summary <- ptsd_comparison %>%
  group_by(study_class) %>%
```

mean_effect = mean(effect_size_1_value, na.rm = T))

summarize(number = n(),

```
ptsd_comparison %>%
  count(effect_size_1_type) %>%
  ggplot(aes(x = reorder(effect_size_1_type, -n), y = n)) +
  geom_bar(stat = 'identity') +
  xlab("effect size 1 type") +
  theme(axis.text.x = element_text(angle = 90, vjust = 0.5, hjust=1))
```



effect size 1 type

```
ptsd_cohensd <- ptsd_comparison %>%
  filter(effect_size_1_type == "Cohen's d")
cohensd_summary <- ptsd_cohensd %>%
   group_by(study_class) %>%
   summarize(number = n(),
             mean_effect = mean(effect_size_1_value))
ptsd_cohensd <- ptsd_cohensd %>%
  filter(study_class != "Nonpharmacologic cognitive")
ptsd_cohensd <- ptsd_cohensd %>%
  mutate(psych = ifelse(study_class == "Psychotherapy", 1, 0)) %>%
  mutate(other = ifelse(study_class == "Other mixed", 1, 0)) %>%
  mutate(psych_pharm = ifelse(study_class == "Mixed: Psychotherapy & pharmacotherapy", 1, 0)) %>%
  mutate(pharm = ifelse(study_class == "Pharmacotherapy", 1, 0)) %>%
  mutate(psych_cih = ifelse(study_class == "Mixed: Psychotherapy & CIH", 1, 0)) %>%
  mutate(cih = ifelse(study_class == "Complementary and integrative health (CIH)", 1, 0)) %>%
  mutate(nonpharm_bio = ifelse(study_class == "Nonpharmacologic biological", 1, 0)) %>%
  mutate(collab = ifelse(study_class == "Collaborative care", 1, 0))
```

```
mean_effect_data <- ptsd_cohensd %>%
  group_by(study_class) %>%
  summarize(
    effect_size_mean = mean(effect_size_1_value),
    effect_size_median = median(effect_size_1_value),
    study_number = n()
)
```

ANOVA

```
one.anova <- aov(effect_size_1_value ~ study_class, data = ptsd_cohensd)
summary(one.anova)
##
               Df Sum Sq Mean Sq F value
                                         Pr(>F)
## study class
               7 16.14 2.3062
                                 5.019 2.27e-05 ***
## Residuals
              275 126.35 0.4595
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
Linear regression
num_model <- lm(effect_size_1_value ~ psych + other + psych_pharm + pharm + psych_cih + nonpharm_bio +</pre>
class_model <- lm(effect_size_1_value ~ study_class + total_n_randomized, data = ptsd_cohensd)</pre>
summary(num_model)
##
## Call:
## lm(formula = effect_size_1_value ~ psych + other + psych_pharm +
      pharm + psych_cih + nonpharm_bio + collab, data = ptsd_cohensd)
##
##
## Residuals:
##
      Min
               1Q Median
                              30
                                     Max
## -2.3428 -0.3367 -0.1197 0.2572 4.1972
##
## Coefficients:
               Estimate Std. Error t value Pr(>|t|)
               ## (Intercept)
                0.9428
                           0.1826 5.162 4.68e-07 ***
## psych
                           0.2144 5.317 2.19e-07 ***
## other
                1.1397
                           0.2183 3.794 0.000183 ***
## psych_pharm
                0.8281
## pharm
                0.6495
                           0.2341 2.774 0.005915 **
                           0.2475 4.304 2.33e-05 ***
## psych_cih
                1.0653
## nonpharm_bio
                           0.3274 2.133 0.033828 *
                0.6983
## collab
                0.7300
                           0.5103 1.431 0.153667
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.6778 on 275 degrees of freedom
## Multiple R-squared: 0.1133, Adjusted R-squared: 0.09072
## F-statistic: 5.019 on 7 and 275 DF, p-value: 2.267e-05
```

Images

Table 1: Relationship Between Effect Size and Treatment Type

	Dependent variable:
	$effect_size_1_value$
Psychotherapy	0.943***
	(0.183)
Other	1.140***
	(0.214)
Psych Pharm	0.828***
	(0.218)
Pharmacotherapy	0.649***
	(0.234)
Psych CIH	1.065***
	(0.248)
Nonpharm bio	0.698**
	(0.327)
Collaborative Care	0.730
	(0.510)
Constant	-0.350**
	(0.175)
Observations	283
Adjusted R ²	0.091
Note:	*p<0.1; **p<0.05; ***p<

Comparison of PTSD Treatment Groups

