

ptg meta analysis descriptives

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Load Data

In the main analysis this should be T1 Raw

```
ptg_effect_sizes <- read_excel("ptg effect sizes.xlsx")
head(ptg_effect_sizes)
```

```
## # A tibble: 6 x 6
##   `study name`   `scale type` `effect size`   sd `sample size` comment
##   <chr>         <chr>      <chr>          <dbl> <dbl> <chr>
## 1 Adjorlolo 2022 PTGI-SF      23.1      NA      381 need to average~
## 2 Arnout 2021   PTG-21      67.5      NA      365 need to average~
## 3 Chasson 2022  PTGI       61.11     NA      916 need to average~
## 4 Chen 2022     PTGI       64.80033  NA      476 this one is cor~
## 5 Chen 2021     PTGI-SF     28        NA     12596 need to double ~
## 6 Dominick 2023 PTGI-X      1.39      NA      201 this is only a ~
```

how many measures are we considering

```
## print out the scale types
unique(ptg_effect_sizes$`scale type`)
```

```
## [1] "PTGI-SF" "PTG-21" "PTGI" "PTGI-X" "CPTG" "SRGS-SF" NA
```

```
## how many
length(unique(ptg_effect_sizes$`scale type`)) - 2
```

```
## [1] 5
```

```
## group by scale types and examine
ptg_effect_sizes %>% group_by(`scale type`) %>% count()
```

```
## # A tibble: 7 x 2
## # Groups:   scale type [7]
##   `scale type`     n
##   <chr>         <int>
## 1 CPTG           1
## 2 PTG-21         1
## 3 PTGI          12
## 4 PTGI-SF        8
## 5 PTGI-X         1
## 6 SRGS-SF        1
## 7 <NA>           1
```

NA is the additional column where I summed all the sample sizes and thus should not be included as a study; I will fix it later.

In total we can see that we have got 13 studies with PTGI (PTG-21 is PTGI), 8 studies with PTGI-SF;

The standard deviations I am in the process of entering them in for calculating effect sizes.

get numbers from all PTGI-measures

overview of the ptgi studies

```
ptgi_studies = ptg_effect_sizes %>% filter(`scale type` == 'PTGI' | `scale type` == 'PTG-21')
ptgi_studies
```

```
## # A tibble: 13 x 6
##   `study name`    `scale type` `effect size`    sd `sample size` comment
##   <chr>          <chr>      <chr>          <dbl>    <dbl> <chr>
## 1 Arnout 2021    PTG-21      67.5           NA       365 need to avera~
## 2 Chasson 2022   PTGI        61.11          NA       916 need to avera~
## 3 Chen 2022      PTGI        64.80033       NA       476 this one is c~
## 4 Gul 2023       PTGI        45.57          11.7     300 this is corre~
## 5 Kalaizaki 2022 PTGI        47.73          NA       352 this is corre~
## 6 Lau 2021       PTGI        35             NA       327 this is corre~
## 7 Lyu 2021       PTGI        60.9           NA       401 double check ~
## 8 Mo 2022        PTGI        96.26          NA       266 this is corre~
## 9 Northfield 2022 PTGI        47            NA       296 this is corre~
## 10 Willey 2022   PTGI        46            NA       193 this is corre~
## 11 Yildiz 2021   PTGI        63.49          NA       292 this is corre~
## 12 Zhang 2021    PTGI        67.17          14.8     1790 this is corre~
## 13 Zhou 2020     PTGI        58.34          NA       442 double check ~
```

descriptives for ptgi measures

```
describe(as.numeric(ptgi_studies$`effect size`))
```

```
##   vars  n  mean    sd median trimmed  mad min   max range skew kurtosis   se
## X1    1 13 58.53 15.23   60.9   57.24 9.79  35 96.26 61.26 0.77    0.48 4.22
```

get numbers from all PTGI-SF measures

```
ptgisf_studies = ptg_effect_sizes %>% filter(`scale type` == 'PTGI-SF')
ptgisf_studies
```

```
## # A tibble: 8 x 6
##   `study name`    `scale type` `effect size`    sd `sample size` comment
##   <chr>          <chr>      <chr>          <dbl>    <dbl> <chr>
## 1 Adjorlolo 2022 PTGI-SF      23.1           NA       381 need t~
## 2 Chen 2021      PTGI-SF      28            NA      12596 need t~
## 3 Feingold 2022   PTGI-SF      90% has positive chan~ NA       787 needs ~
## 4 Lewis 2021     PTGI-SF      12.64          NA      1424 this i~
## 5 Pirtrzak 2021   PTGI-SF      43.3% indicated they ~ NA       395 need t~
## 6 Ulset 2021     PTGI-SF      2.16           NA     12686 need t~
## 7 Vazquez 2021    PTGI-SF      36.51          NA     1951 this i~
## 8 Yeung 2022      PTGI-SF      2.19           0.97     1510 need t~
```

descriptives for ptgi-sf measures

```
describe(as.numeric(ptgi_studies$`effect size`))
```

```
##      vars  n  mean    sd median trimmed  mad min   max range skew kurtosis   se
## X1      1 13 58.53 15.23   60.9   57.24 9.79  35 96.26 61.26 0.77    0.48 4.22
```

This needs a bit more work as some of the PTGI-SF studies reported the average score of each item instead of summing all the items; at the same time two studies reported percentages instead of actual ptgi-sf values.