

```

# overall statistics calculated by year, study data type, type of transparency
measure
fig2_data2 %>%
  select(year_split, EmpiricalStudyData, Type, n, prop, available) %>%
  print(., n = nrow(fig2_data2))
## # A tibble: 30 × 6
## # Groups:   year_split, EmpiricalStudyData [4]
##   year_split      EmpiricalStudyData Type           n  prop availa...1
##   <fct>          <fct>          <fct>       <int> <dbl> <fct>
## 1 Post-RC (2018-2019) Primary      "Materials "      106  75.7 " Not a...
## 2 Post-RC (2018-2019) Primary      "Materials "       34  24.3 " Avail...
## 3 Post-RC (2018-2019) Secondary    "Materials "       43  91.5 " Not a...
## 4 Post-RC (2018-2019) Secondary    "Materials "        4   8.5 " Avail...
## 5 Pre-RC (2008-09) Primary         "Materials "      104  85.2 " Not a...
## 6 Pre-RC (2008-09) Primary         "Materials "       18  14.8 " Avail...
## 7 Pre-RC (2008-09) Secondary       "Materials "       47  97.9 " Not a...
## 8 Pre-RC (2008-09) Secondary       "Materials "        1   2.1 " Avail...
## 9 Post-RC (2018-2019) Primary       "Raw Data "        5   3.6 " Avail...
## 10 Post-RC (2018-2019) Secondary    "Raw Data "       20  42.6 " Avail...
## 11 Pre-RC (2008-09) Primary         "Raw Data "        8   6.5 " Avail...
## 12 Pre-RC (2008-09) Secondary       "Raw Data "       17  34   " Avail...
## 13 Post-RC (2018-2019) Primary       "Raw Data "      135  96.4 " Not a...
## 14 Post-RC (2018-2019) Secondary    "Raw Data "       27  57.4 " Not a...
## 15 Pre-RC (2008-09) Primary         "Raw Data "      115  93.5 " Not a...
## 16 Pre-RC (2008-09) Secondary       "Raw Data "       33  66   " Not a...
## 17 Post-RC (2018-2019) Primary       "Processed Data "    5   3.6 " Avail...
## 18 Post-RC (2018-2019) Secondary    "Processed Data "    4   8.5 " Avail...
## 19 Pre-RC (2008-09) Primary         "Processed Data "    1   0.8 " Avail...
## 20 Pre-RC (2008-09) Secondary       "Processed Data "    2    4   " Avail...
## 21 Post-RC (2018-2019) Primary       "Processed Data "   135  96.4 " Not a...
## 22 Post-RC (2018-2019) Secondary    "Processed Data "    43  91.5 " Not a...
## 23 Pre-RC (2008-09) Primary         "Processed Data "   122  99.2 " Not a...
## 24 Pre-RC (2008-09) Secondary       "Processed Data "    48  96   " Not a...
## 25 Post-RC (2018-2019) Primary       "Analysis "        1   0.7 " Avail...
## 26 Post-RC (2018-2019) Secondary    "Analysis "        2   4.3 " Avail...
## 27 Post-RC (2018-2019) Primary       "Analysis "      139  99.3 " Not a...
## 28 Post-RC (2018-2019) Secondary    "Analysis "       45  95.7 " Not a...
## 29 Pre-RC (2008-09) Primary         "Analysis "      123 100   " Not a...
## 30 Pre-RC (2008-09) Secondary       "Analysis "       50 100   " Not a...
## # ... with abbreviated variable name 1available
# statistics calculated by year, type of transparency measure (summed over study data
type)
fig2_data2 %>%
  group_by(year_split, Type, available) %>%
  summarise(total_n = sum(n), .groups = "keep") %>%
  group_by(year_split, Type) %>%
  mutate(total_prop = total_n / sum(total_n) * 100)
## # A tibble: 15 × 5
## # Groups:   year_split, Type [8]
##   year_split      Type      available      total_n total_prop
##   <fct>          <fct>          <fct>       <int>     <dbl>
## 1 Pre-RC (2008-09) "Materials "    " Available"        19      11.2
## 2 Pre-RC (2008-09) "Materials "    " Not available"    151      88.8
## 3 Pre-RC (2008-09) "Raw Data "     " Available"        25      14.5
## 4 Pre-RC (2008-09) "Raw Data "     " Not available"   148      85.5

```

```
## 5 Pre-RC (2008-09) "Processed Data " " Available" 3 1.73
## 6 Pre-RC (2008-09) "Processed Data " " Not available" 170 98.3
## 7 Pre-RC (2008-09) "Analysis " " Not available" 173 100
## 8 Post-RC (2018-2019) "Materials " " Available" 38 20.3
## 9 Post-RC (2018-2019) "Materials " " Not available" 149 79.7
## 10 Post-RC (2018-2019) "Raw Data " " Available" 25 13.4
## 11 Post-RC (2018-2019) "Raw Data " " Not available" 162 86.6
## 12 Post-RC (2018-2019) "Processed Data " " Available" 9 4.81
## 13 Post-RC (2018-2019) "Processed Data " " Not available" 178 95.2
## 14 Post-RC (2018-2019) "Analysis " " Available" 3 1.60
## 15 Post-RC (2018-2019) "Analysis " " Not available" 184 98.4
# statistics calculated by study data type, transparency measured (summed over years)
```

```
fig2_data2 %>%
```

```
  group_by(EmpiricalStudyData, Type, available) %>%
  summarise(total_n = sum(n), .groups = "keep") %>%
  group_by(EmpiricalStudyData, Type) %>%
  mutate(total_prop = total_n / sum(total_n) * 100)
```

```
## # A tibble: 16 × 5
```

```
## # Groups:   EmpiricalStudyData, Type [8]
```

##	EmpiricalStudyData	Type	available	total_n	total_prop
##	<fct>	<fct>	<fct>	<int>	<dbl>
## 1	Secondary	"Materials "	" Available"	5	5.26
## 2	Secondary	"Materials "	" Not available"	90	94.7
## 3	Secondary	"Raw Data "	" Available"	37	38.1
## 4	Secondary	"Raw Data "	" Not available"	60	61.9
## 5	Secondary	"Processed Data "	" Available"	6	6.19
## 6	Secondary	"Processed Data "	" Not available"	91	93.8
## 7	Secondary	"Analysis "	" Available"	2	2.06
## 8	Secondary	"Analysis "	" Not available"	95	97.9
## 9	Primary	"Materials "	" Available"	52	19.8
## 10	Primary	"Materials "	" Not available"	210	80.2
## 11	Primary	"Raw Data "	" Available"	13	4.94
## 12	Primary	"Raw Data "	" Not available"	250	95.1
## 13	Primary	"Processed Data "	" Available"	6	2.28
## 14	Primary	"Processed Data "	" Not available"	257	97.7
## 15	Primary	"Analysis "	" Available"	1	0.380
## 16	Primary	"Analysis "	" Not available"	262	99.6

```
# statistics calculated by study data type (summed over transparency measures and years )
```

```
fig2_data2 %>%
```

```
  group_by(Type, available) %>%
  summarise(total_n = sum(n), .groups = "keep") %>%
  group_by(Type) %>%
  mutate(total_prop = total_n / sum(total_n) * 100)
```

```
## # A tibble: 8 × 4
```

```
## # Groups:   Type [4]
```

##	Type	available	total_n	total_prop
##	<fct>	<fct>	<int>	<dbl>
## 1	"Materials "	" Available"	57	16.0
## 2	"Materials "	" Not available"	300	84.0
## 3	"Raw Data "	" Available"	50	13.9
## 4	"Raw Data "	" Not available"	310	86.1
## 5	"Processed Data "	" Available"	12	3.33
## 6	"Processed Data "	" Not available"	348	96.7
## 7	"Analysis "	" Available"	3	0.833

```

## 8 "Analysis " " Not available" 357 99.2
# open access statistics after fixing coding issues on the initial dataset (n = 600)
by year
openaccessDF_all %>%
  group_by(open_access, year_split) %>%
  summarize(total_n = n(), .groups = "keep") %>%
  group_by(open_access) %>%
  mutate(open_prop = total_n / sum(total_n) * 100)
## # A tibble: 6 × 4
## # Groups:   open_access [3]
##   open_access year_split total_n open_prop
##   <chr>      <chr>      <int>   <dbl>
## 1 no        Post-RC        144    42.1
## 2 no        Pre-RC         198    57.9
## 3 unknown   Post-RC         29    61.7
## 4 unknown   Pre-RC         18    38.3
## 5 yes       Post-RC        127    60.2
## 6 yes       Pre-RC         84    39.8
# open access statistics on the included dataset (n = 519) by year
openaccessDF_used %>%
  group_by(open_access, year_split) %>%
  summarize(total_n = n(), .groups = "keep") %>%
  group_by(open_access) %>%
  mutate(open_prop = total_n / sum(total_n) * 100)
## # A tibble: 6 × 4
## # Groups:   open_access [3]
##   open_access year_split total_n open_prop
##   <chr>      <chr>      <int>   <dbl>
## 1 no        Post-RC        119    40.8
## 2 no        Pre-RC        173    59.2
## 3 unknown   Post-RC         21     60
## 4 unknown   Pre-RC         14     40
## 5 yes       Post-RC        115    59.9
## 6 yes       Pre-RC         77    40.1
# open access statistics on the included articles reporting empirical studies (n =
360) by year
openaccessDF_filtered %>%
  group_by(open_access, year_split) %>%
  summarize(total_n = n(), .groups = "keep") %>%
  group_by(open_access) %>%
  mutate(open_prop = total_n / sum(total_n) * 100)
## # A tibble: 6 × 4
## # Groups:   open_access [3]
##   open_access year_split total_n open_prop
##   <chr>      <chr>      <int>   <dbl>
## 1 no        Post-RC         93    44.7
## 2 no        Pre-RC        115    55.3
## 3 unknown   Post-RC         13    56.5
## 4 unknown   Pre-RC          10    43.5
## 5 yes       Post-RC         81    62.8
## 6 yes       Pre-RC          48    37.2
# replication statistics on the included articles reporting empirical studies (n =
360) by year
# note that we double checked these and one was not a replication study and was
miscoded

```

```

DF_filtered_ps$Replication[DF_filtered_ps$Replication == ""] <- "There is no clear
statement that the article reports a replication study (or studies)"
DF_filtered_ps %>%
  group_by(Replication, year_split) %>%
  summarize(total_n = n(), .groups = "keep")
## # A tibble: 4 × 3
## # Groups:   Replication, year_split [4]
##   Replication                                year_...1 total_n
##   <chr>                                <chr>      <int>
## 1 The article claims to report a replication study (or studies) Post-...      1
## 2 The article claims to report a replication study (or studies) Pre-RC        4
## 3 There is no clear statement that the article reports a replic... Post-...    186
## 4 There is no clear statement that the article reports a replic... Pre-RC    169
## # ... with abbreviated variable name 1year_split
# coi statistics on the included dataset (n = 519) by year
DF_filtered$COI[DF_filtered$COI == ""] <- "No, there is no conflict of interest
statement"
DF_filtered %>%
  group_by(COI, year_split) %>%
  summarize(total_n = n(), .groups = "keep") %>%
  group_by(COI) %>%
  mutate(COI_prop = total_n / sum(total_n) * 100)
## # A tibble: 4 × 4
## # Groups:   COI [2]
##   COI                                year_...1 total_n COI_p...2
##   <chr>                                <chr>      <int>    <dbl>
## 1 No, there is no conflict of interest statement Post-...    209    44.8
## 2 No, there is no conflict of interest statement Pre-RC     258    55.2
## 3 Yes, the statement says that there is no conflict of ... Post-...     46    88.5
## 4 Yes, the statement says that there is no conflict of ... Pre-RC        6    11.5
## # ... with abbreviated variable names 1year_split, 2COI_prop

```