

```
# 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 `available`
```

```
# 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 included dataset 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         After-OS      119     40.8
## 2 no         Pre-OS       173     59.2
## 3 unknown    After-OS      21      60
## 4 unknown    Pre-OS       14      40
## 5 yes        After-OS     115     59.9
## 6 yes        Pre-OS       77      40.1
```

replication statistics by year

note that we double checked these and one was not a replication study and was misclassified

```
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) After-...      1
## 2 The article claims to report a replication study (or studies) Pre-OS        4
## 3 There is no clear statement that the article reports a replic... After-...    186
## 4 There is no clear statement that the article reports a replic... Pre-OS      169
## # ... with abbreviated variable name 1year_split

# coi statistics by year
DF_filtered$COI[DF_filtered$COI == ""] <- "No, there is no conflict of interest state
ment"
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 After-...    209    44.8
## 2 No, there is no conflict of interest statement Pre-OS      258    55.2
## 3 Yes, the statement says that there is no conflict of ... After-...     46    88.5
## 4 Yes, the statement says that there is no conflict of ... Pre-OS         6    11.5
## # ... with abbreviated variable names 1year_split, 2COI_prop
```