```
------------------------------------------------------------------------------
--------------


. metaprop otp_readmission otp_admissionall, by(sex) random
cimethod(exact) power(2) l
> abel(namevar=author, yearvar=year) xlab(0, 2, 3,  4,5) sortby(year
author) texts(100)
>   rflevel(70)

           Study     |      ES       [95% Conf. Interval]  % Weight
---------------------+---------------------------------------------------
     Boys
UNICEF (2018)        |        3.13      3.00         3.26        6.86
UNICEF (2019)        |        2.41      2.32         2.50        7.12
UNICEF (2020)        |        2.33      2.24         2.42        7.13
UNICEF (2021)        |        2.61      2.52         2.71        7.09
UNICEF (2022)        |        2.48      2.42         2.55        7.22
UNICEF (2023)        |        2.36      2.30         2.42        7.26
UNICEF (2024)        |        2.47      2.38         2.57        7.10
 Sub-total           |
  Random pooled  ES  |        2.54      2.39         2.68       49.79
---------------------+---------------------------------------------------
     Girls
UNICEF (2018)        |        3.20      3.08         3.32        6.94
UNICEF (2019)        |        2.40      2.31         2.48        7.16
UNICEF (2020)        |        2.14      2.06         2.22        7.19
UNICEF (2021)        |        2.31      2.23         2.39        7.17
UNICEF (2022)        |        2.17      2.11         2.23        7.27
UNICEF (2023)        |        2.12      2.07         2.17        7.30
UNICEF (2024)        |        2.29      2.21         2.36        7.19
 Sub-total           |
  Random pooled  ES  |        2.37      2.18         2.56       50.21
---------------------+---------------------------------------------------
Overall              |
  Random pooled  ES  |        2.45      2.32         2.58      100.00
---------------------+---------------------------------------------------

Test(s) of heterogeneity:
               Heterogeneity  degrees of
                 statistic     freedom            P       I^2**
Boys                128.56           6         0.00      95.33%
Girls               295.40           6         0.00      97.97%
Overall             532.25          13         0.00      97.56%
** I^2: the variation in ES attributable to heterogeneity)


Random: Test for heterogeneity between sub-groups:
                         1.84      1            0.17

Significance test(s) of  ES=0

Boys                 z= 33.57      p = 0.00
Girls                z= 24.25      p = 0.00
Overall              z= 36.59      p = 0.00
------------------------------------------------------------------------------

.
. ge logswt = log(_WT)

. ge logsees = log(_seES)

. **correct plot
```

```
. metabias6 _seES  _ES, graph(begg)

Note: default data input format (theta, se_theta) assumed.

Tests for Publication Bias

Begg's Test

  adj. Kendall's Score (P-Q) =      63
         Std. Dev. of Score =   18.27
          Number of Studies =      14
                          z  =    3.45
                  Pr > |z| =   0.001
                          z  =    3.39 (continuity corrected)
                  Pr > |z| =   0.001 (continuity corrected)

Egger's test
------------------------------------------------------------------------------
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------+----------------------------------------------------------------
       slope |  -.0003545   .0001451    -2.44   0.031    -.0006706
-.0000384
        bias |    .031862   .0060252     5.29   0.000     .0187344
.0449897
------------------------------------------------------------------------------

. metafunnel _seES  _ES, by(sex)

Note: default data input format (theta, se_theta) assumed.

. metabias _seES  _ES, egger

Note: data input format theta se_theta assumed

Egger's test for small-study effects:
Regress standard normal deviate of intervention
  effect estimate against its standard error

.
Number of studies =  14                                  Root MSE      =
.0025
------------------------------------------------------------------------------
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------+----------------------------------------------------------------
       slope |  -.0003545   .0001451    -2.44   0.031    -.0006706
-.0000384
        bias |    .031862   .0060252     5.29   0.000     .0187344
.0449897
------------------------------------------------------------------------------

Test of H0: no small-study effects          P = 0.000

.
.
. graph twoway (lfit logswt year) (scatter logswt year), ///
```

```
>         xlabel(2024(1)2018) ///
>   ytitle(log proportion of XXX) ///
>   xtitle(Year of publication)

. pwcorr logswt year, sig

             |   logswt     year
-------------+------------------
      logswt |   1.0000
             |
             |
        year |   0.6667   1.0000
             |   0.0092
             |

.
. ///sc readmission////
>
.

. metaprop sc_readmission sc_admissionall, by(sex) random
cimethod(exact) power(2) lab
> el(namevar=author, yearvar=year)  xlab (0, 2, 3,  4,5) sortby(year
author) texts(100)
>   rflevel(70)

           Study     |      ES       [95% Conf. Interval]  % Weight
---------------------+-------------------------------------------------
     Boys
UNICEF (2018)        |        2.28      1.85         2.78        7.03
UNICEF (2019)        |        2.66      2.35         3.00        7.22
UNICEF (2020)        |        2.67      2.37         3.00        7.23
UNICEF (2021)        |        3.92      3.55         4.31        7.15
UNICEF (2022)        |        3.76      3.48         4.06        7.26
UNICEF (2023)        |        4.97      4.67         5.28        7.24
UNICEF (2024)        |        3.70      3.31         4.13        7.10
 Sub-total           |
  Random pooled  ES  |        3.43      2.72         4.14       50.22
---------------------+-------------------------------------------------
     Girls
UNICEF (2018)        |        4.87      4.26         5.54        6.69
UNICEF (2019)        |        2.83      2.51         3.18        7.21
UNICEF (2020)        |        2.65      2.35         2.97        7.24
UNICEF (2021)        |        4.49      4.10         4.91        7.11
UNICEF (2022)        |        4.21      3.91         4.53        7.24
UNICEF (2023)        |        5.11      4.81         5.42        7.24
UNICEF (2024)        |        4.68      4.25         5.13        7.06
 Sub-total           |
  Random pooled  ES  |        4.11      3.33         4.90       49.78
---------------------+-------------------------------------------------
Overall              |
  Random pooled  ES  |        3.77      3.25         4.29      100.00
---------------------+-------------------------------------------------

Test(s) of heterogeneity:
               Heterogeneity  degrees of
                 statistic     freedom            P       I^2**
Boys                182.32           6         0.00      96.71%
Girls               199.93           6         0.00      97.00%
Overall             405.55          13         0.00      96.79%
** I^2: the variation in ES attributable to heterogeneity)
```

```
Random: Test for heterogeneity between sub-groups:
                         1.60      1            0.21

Significance test(s) of  ES=0

Boys                   z= 9.47       p = 0.00
Girls                  z= 10.25      p = 0.00
Overall                z= 14.20      p = 0.00
------------------------------------------------------------------------------

.
. ge logswt = log(_WT)

. ge logsees = log(_seES)

. **correct plot
. metabias6 _seES  _ES, graph(begg)

Note: default data input format (theta, se_theta) assumed.

Tests for Publication Bias

Begg's Test

  adj. Kendall's Score (P-Q) =      23
         Std. Dev. of Score =   18.27
          Number of Studies =      14
                          z  =    1.26
                    Pr > |z| =   0.208
                          z  =    1.20 (continuity corrected)
                    Pr > |z| =   0.228 (continuity corrected)

Egger's test
------------------------------------------------------------------------------
-----
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------+----------------------------------------------------------------
-----
       slope |   .0016677   .0004177     3.99   0.002     .0007576
.0025779
        bias |   .0054175   .0123436     0.44   0.669    -.0214769
.0323119
------------------------------------------------------------------------------
-----

. metafunnel _seES  _ES

Note: default data input format (theta, se_theta) assumed.

. metabias _seES  _ES, egger

Note: data input format theta se_theta assumed

Egger's test for small-study effects:
Regress standard normal deviate of intervention
  effect estimate against its standard error

.
Number of studies =  14                                  Root MSE      =
.0123
------------------------------------------------------------------------------
-----
```

```
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------+------------------------------------------------------------
-----
       slope |   .0016677   .0004177     3.99   0.002     .0007576
.0025779
        bias |   .0054175   .0123436     0.44   0.669    -.0214769
.0323119
------------------------------------------------------------------------------
-----

Test of H0: no small-study effects          P = 0.669

.
.
. graph twoway (lfit logswt year) (scatter logswt year), ///
>         xlabel(2024(1)2018) ///
>   ytitle(log proportion of XXX) ///
>   xtitle(Year of publication)

. pwcorr logswt year, sig

             |   logswt     year
-------------+------------------
      logswt |   1.0000
             |
             |
        year |   0.3630   1.0000
             |   0.2021
             |

.
. ////OTP recovery/////
>
.
.

. metaprop otprecovery tot_otpexit, by(sex) random  cimethod(exact)
power(2) label(name
> var=author, yearvar=year)  xlab(0, 50, 60, 70, 80, 90) sortby(year
author) texts(100)
>   rflevel(70)

           Study     |      ES       [95% Conf. Interval]  % Weight
---------------------+-------------------------------------------------
     Boys
UNICEF (2018)        |       94.84     94.66        95.02        7.11
UNICEF (2019)        |       93.29     93.12        93.45        7.12
UNICEF (2020)        |       95.52     95.39        95.65        7.14
UNICEF (2021)        |       96.07     95.94        96.20        7.14
UNICEF (2022)        |       95.48     95.37        95.58        7.15
UNICEF (2023)        |       96.77     96.69        96.84        7.16
UNICEF (2024)        |       95.94     95.81        96.07        7.14
 Sub-total           |
  Random pooled  ES  |       95.42     94.65        96.19       49.98
---------------------+-------------------------------------------------
     Girls
UNICEF (2018)        |       94.78     94.61        94.94        7.12
UNICEF (2019)        |       93.46     93.31        93.61        7.13
UNICEF (2020)        |       95.25     95.13        95.37        7.15
UNICEF (2021)        |       95.94     95.82        96.06        7.15
UNICEF (2022)        |       95.39     95.29        95.49        7.16
UNICEF (2023)        |       96.82     96.76        96.89        7.17
```

```
UNICEF (2024)          |       95.81     95.70        95.92        7.15
 Sub-total             |
  Random pooled  ES    |       95.35     94.57        96.13       50.02
----------------------+-------------------------------------------------
Overall                |
  Random pooled  ES    |       95.39     94.87        95.90      100.00
----------------------+-------------------------------------------------

Test(s) of heterogeneity:
               Heterogeneity  degrees of
                 statistic     freedom            P       I^2**
Boys                1711.54      6            0.00     99.65%
Girls               2181.68      6            0.00     99.72%
Overall             3893.54     13            0.00     99.67%
** I^2: the variation in ES attributable to heterogeneity)


Random: Test for heterogeneity between sub-groups:
                         0.01      1            0.91

Significance test(s) of  ES=0

Boys                z= 243.20     p = 0.00
Girls               z= 239.73     p = 0.00
Overall             z= 362.29     p = 0.00
------------------------------------------------------------------------------

.
. ge logswt = log(_WT)

. ge logsees = log(_seES)

. **correct plot
. metabias6 _seES  _ES, graph(begg)

Note: default data input format (theta, se_theta) assumed.

Tests for Publication Bias

Begg's Test

  adj. Kendall's Score (P-Q) =     -43
         Std. Dev. of Score =   18.27
          Number of Studies =      14
                          z  =   -2.35
                   Pr > |z| =   0.019
                          z  =    2.30 (continuity corrected)
                   Pr > |z| =   0.021 (continuity corrected)

Egger's test
------------------------------------------------------------------------------
-----
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------+----------------------------------------------------------------
-----
       slope |   .0126816   .0027798     4.56   0.001     .0066249
.0187383
        bias |  -.0126317   .0029148    -4.33   0.001    -.0189825
-.0062808
------------------------------------------------------------------------------
-----
```

```
. metafunnel _seES  _ES

Note: default data input format (theta, se_theta) assumed.

. metabias _seES  _ES, egger

Note: data input format theta se_theta assumed

Egger's test for small-study effects:
Regress standard normal deviate of intervention
  effect estimate against its standard error


.
Number of studies =  14                                   Root MSE      =
1.2e-04
------------------------------------------------------------------------
-----
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------+----------------------------------------------------------
-----
       slope |   .0126816   .0027798     4.56   0.001     .0066249
.0187383
        bias |  -.0126317   .0029148    -4.33   0.001    -.0189825
-.0062808
------------------------------------------------------------------------
-----

Test of H0: no small-study effects          P = 0.001

.
.
. graph twoway (lfit logswt year) (scatter logswt year), ///
>         xlabel(2024(1)2018) ///
>   ytitle(log proportion of XXX) ///
>   xtitle(Year of publication)

. pwcorr logswt year, sig

             |   logswt     year
-------------+------------------
      logswt |   1.0000
             |
             |
        year |   0.8267   1.0000
             |   0.0003
             |


.
.
.
. ///SC rfecovery///
>

. metaprop sc_recovery tot_sc_exit , by(sex) random  cimethod(exact)
power(2) label(nam
> evar=author, yearvar=year)  xlab(0, 50, 60, 70, 80, 90) sortby(year
author) texts(100
> )  rflevel(70)

           Study     |      ES       [95% Conf. Interval]  % Weight
---------------------+--------------------------------------------------
     Boys
```

```
UNICEF (2018)          |       69.21     67.78        70.62        6.88
UNICEF (2019)          |       79.92     79.09        80.73        7.15
UNICEF (2020)          |       83.36     82.63        84.08        7.18
UNICEF (2021)          |       80.36     79.57        81.14        7.16
UNICEF (2022)          |       82.92     82.33        83.50        7.22
UNICEF (2023)          |       84.06     83.54        84.57        7.23
UNICEF (2024)          |       84.03     83.22        84.82        7.16
 Sub-total             |
  Random pooled  ES    |       80.61     78.20        83.03       49.97
----------------------+-------------------------------------------------
     Girls
UNICEF (2018)          |       71.63     70.28        72.96        6.92
UNICEF (2019)          |       80.68     79.86        81.48        7.15
UNICEF (2020)          |       83.45     82.73        84.15        7.18
UNICEF (2021)          |       80.15     79.35        80.94        7.16
UNICEF (2022)          |       81.66     81.05        82.26        7.21
UNICEF (2023)          |       84.36     83.85        84.86        7.23
UNICEF (2024)          |       84.69     83.93        85.42        7.17
 Sub-total             |
  Random pooled  ES    |       81.00     78.76        83.23       50.03
----------------------+-------------------------------------------------
Overall                |
  Random pooled  ES    |       80.81     79.25        82.37      100.00
----------------------+-------------------------------------------------

Test(s) of heterogeneity:
               Heterogeneity  degrees of
                 statistic     freedom            P       I^2**
Boys                466.78      6            0.00     98.71%
Girls               410.28      6            0.00     98.54%
Overall             877.24     13            0.00     98.52%
** I^2: the variation in ES attributable to heterogeneity)


Random: Test for heterogeneity between sub-groups:
                         0.05      1            0.82

Significance test(s) of  ES=0

Boys                 z= 65.46      p = 0.00
Girls                z= 70.96      p = 0.00
Overall              z= 101.32     p = 0.00
------------------------------------------------------------------------------


.
. ge logswt = log(_WT)

. ge logsees = log(_seES)

. **correct plot
. metabias6 _seES  _ES, graph(begg)

Note: default data input format (theta, se_theta) assumed.

Tests for Publication Bias

Begg's Test

  adj. Kendall's Score (P-Q) =      -55
         Std. Dev. of Score =    18.27
          Number of Studies =       14
                          z  =    -3.01
                  Pr > |z| =    0.003
```

```
                           z  =    2.96 (continuity corrected)
                     Pr > |z| =   0.003 (continuity corrected)

Egger's test
------------------------------------------------------------------------------
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------+----------------------------------------------------------------
       slope |   .0261113   .0021267    12.28   0.000     .0214776
.0307451
        bias |  -.0273386   .0026479   -10.32   0.000    -.0331079
-.0215692
------------------------------------------------------------------------------

. metafunnel _seES  _ES

Note: default data input format (theta, se_theta) assumed.

. metabias _seES  _ES, egger

Note: data input format theta se_theta assumed

Egger's test for small-study effects:
Regress standard normal deviate of intervention
  effect estimate against its standard error

.
Number of studies =  14                                  Root MSE      =
6.1e-04
------------------------------------------------------------------------------
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------+----------------------------------------------------------------
       slope |   .0261113   .0021267    12.28   0.000     .0214776
.0307451
        bias |  -.0273386   .0026479   -10.32   0.000    -.0331079
-.0215692
------------------------------------------------------------------------------

Test of H0: no small-study effects          P = 0.000

.
.
. graph twoway (lfit logswt year) (scatter logswt year), ///
>         xlabel(2024(1)2018) ///
>   ytitle(log proportion of XXX) ///
>   xtitle(Year of publication)

. pwcorr logswt year, sig

             |   logswt     year
-------------+------------------
      logswt |   1.0000
             |
             |
        year |   0.6863   1.0000
             |   0.0067
```

```
              |

.
.
. ////OTP deaths
>

. metaprop otp_died tot_otpexit , by(sex) random  cimethod(exact)
power(2) label(nameva
> r=author, yearvar=year)  xlab(0, 0.1, 0.2, 0.3, 0.4) sortby(year
author) texts(100)
> rflevel(70)

           Study     |      ES       [95% Conf. Interval]  % Weight
---------------------+-------------------------------------------------
     Boys
UNICEF (2018)        |        0.39      0.34         0.44        6.20
UNICEF (2019)        |        0.17      0.14         0.19        7.14
UNICEF (2020)        |        0.18      0.15         0.21        7.14
UNICEF (2021)        |        0.17      0.14         0.20        7.13
UNICEF (2022)        |        0.16      0.14         0.18        7.33
UNICEF (2023)        |        0.11      0.09         0.12        7.48
UNICEF (2024)        |        0.16      0.13         0.19        7.19
 Sub-total
  Random pooled  ES  |        0.18      0.14         0.23       49.62
---------------------+-------------------------------------------------
     Girls
UNICEF (2018)        |        0.36      0.32         0.41        6.49
UNICEF (2019)        |        0.17      0.14         0.20        7.21
UNICEF (2020)        |        0.19      0.17         0.22        7.20
UNICEF (2021)        |        0.15      0.13         0.18        7.26
UNICEF (2022)        |        0.15      0.14         0.17        7.39
UNICEF (2023)        |        0.09      0.08         0.10        7.52
UNICEF (2024)        |        0.15      0.13         0.17        7.31
 Sub-total
  Random pooled  ES  |        0.18      0.13         0.22       50.38
---------------------+-------------------------------------------------
Overall              |
  Random pooled  ES  |        0.18      0.15         0.21      100.00
---------------------+-------------------------------------------------

Test(s) of heterogeneity:
               Heterogeneity  degrees of
                 statistic     freedom            P       I^2**
Boys                132.84       6            0.00     95.48%
Girls               195.98       6            0.00     96.94%
Overall             334.05      13            0.00     96.11%
** I^2: the variation in ES attributable to heterogeneity)


Random: Test for heterogeneity between sub-groups:
                         0.06       1            0.81

Significance test(s) of  ES=0

Boys                z= 8.52       p = 0.00
Girls               z= 7.80       p = 0.00
Overall             z= 12.17      p = 0.00
------------------------------------------------------------------------------

.
. ge logswt = log(_WT)
```

```
. ge logsees = log(_seES)

. **correct plot
. metabias6 _seES  _ES, graph(begg)

Note: default data input format (theta, se_theta) assumed.

Tests for Publication Bias

Begg's Test

  adj. Kendall's Score (P-Q) =      65
         Std. Dev. of Score =   18.27
          Number of Studies =      14
                          z  =    3.56
                    Pr > |z| =   0.000
                          z  =    3.50 (continuity corrected)
                    Pr > |z| =   0.000 (continuity corrected)

Egger's test
------------------------------------------------------------------------------
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------+----------------------------------------------------------------
       slope |  -3.01e-06   .0000106    -0.28   0.782    -.0000262
.0000201
        bias |   .0732704   .0069658    10.52   0.000     .0580933
.0884475
------------------------------------------------------------------------------

. metafunnel _seES  _ES

Note: default data input format (theta, se_theta) assumed.

. metabias _seES  _ES, egger

Note: data input format theta se_theta assumed

Egger's test for small-study effects:
Regress standard normal deviate of intervention
  effect estimate against its standard error

.
Number of studies =  14                                  Root MSE      =
.0083
------------------------------------------------------------------------------
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------+----------------------------------------------------------------
       slope |  -3.01e-06   .0000106    -0.28   0.782    -.0000262
.0000201
        bias |   .0732704   .0069658    10.52   0.000     .0580933
.0884475
------------------------------------------------------------------------------

Test of H0: no small-study effects          P = 0.000
```

```
.
.
. graph twoway (lfit logswt year) (scatter logswt year), ///
>         xlabel(2024(1)2018) ///
>   ytitle(log proportion of XXX) ///
>   xtitle(Year of publication)

. pwcorr logswt year, sig

             |   logswt     year
-------------+------------------
      logswt |   1.0000
             |
             |
        year |   0.7196   1.0000
             |   0.0037
             |

.
. /// SC deaths///
>

. metaprop sc_died tot_sc_exit , by(sex) random  cimethod(exact) power(2)
label(namevar
> =author, yearvar=year)  xlab(0, 1, 1.5, 2, 2.5) sortby(year author)
texts(100)  rflev
> el(70)

           Study     |      ES       [95% Conf. Interval]  % Weight
---------------------+-------------------------------------------------
     Boys
UNICEF (2018)        |        1.47      1.13         1.89        6.51
UNICEF (2019)        |        1.90      1.63         2.20        7.06
UNICEF (2020)        |        1.96      1.70         2.24        7.11
UNICEF (2021)        |        1.62      1.38         1.89        7.23
UNICEF (2022)        |        1.98      1.77         2.20        7.40
UNICEF (2023)        |        1.20      1.05         1.36        7.67
UNICEF (2024)        |        1.53      1.28         1.82        7.13
 Sub-total           |
  Random pooled  ES  |        1.66      1.40         1.93       50.11
---------------------+-------------------------------------------------
     Girls
UNICEF (2018)        |        1.56      1.22         1.98        6.51
UNICEF (2019)        |        2.19      1.90         2.51        6.94
UNICEF (2020)        |        1.98      1.72         2.26        7.13
UNICEF (2021)        |        1.92      1.66         2.21        7.09
UNICEF (2022)        |        2.31      2.08         2.56        7.30
UNICEF (2023)        |        1.15      1.01         1.30        7.69
UNICEF (2024)        |        1.47      1.23         1.74        7.23
 Sub-total           |
  Random pooled  ES  |        1.79      1.42         2.17       49.89
---------------------+-------------------------------------------------
Overall              |
  Random pooled  ES  |        1.73      1.51         1.95      100.00
---------------------+-------------------------------------------------

Test(s) of heterogeneity:
               Heterogeneity  degrees of
                 statistic     freedom            P       I^2**
Boys                 50.95         6           0.00      88.22%
Girls                99.80         6           0.00      93.99%
Overall             151.71        13           0.00      91.43%
** I^2: the variation in ES attributable to heterogeneity)
```

```
Random: Test for heterogeneity between sub-groups:
                          0.31      1            0.57

Significance test(s) of  ES=0

Boys                   z= 12.26      p = 0.00
Girls                  z= 9.32       p = 0.00
Overall                z= 15.52      p = 0.00
------------------------------------------------------------------------------


.
. ge logswt = log(_WT)

. ge logsees = log(_seES)

. **correct plot
. metabias6 _seES  _ES, graph(begg)

Note: default data input format (theta, se_theta) assumed.

Tests for Publication Bias

Begg's Test

  adj. Kendall's Score (P-Q) =       5
         Std. Dev. of Score =   18.27
          Number of Studies =      14
                          z  =    0.27
                    Pr > |z| =   0.784
                          z  =    0.22 (continuity corrected)
                    Pr > |z| =   0.827 (continuity corrected)

Egger's test
------------------------------------------------------------------------------
-----
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------+----------------------------------------------------------------
-----
       slope |   .0004404   .0004519     0.97   0.349    -.0005443
.001425
        bias |   .0513255   .0278506     1.84   0.090    -.0093557
.1120067
------------------------------------------------------------------------------
-----

. metafunnel _seES  _ES

Note: default data input format (theta, se_theta) assumed.

. metabias _seES  _ES, egger

Note: data input format theta se_theta assumed

Egger's test for small-study effects:
Regress standard normal deviate of intervention
  effect estimate against its standard error

.
Number of studies =  14                                  Root MSE      =
.0217
```

```
------------------------------------------------------------------------------
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
       slope |   .0004404   .0004519     0.97   0.349    -.0005443    .001425
        bias |   .0513255   .0278506     1.84   0.090    -.0093557   .1120067
------------------------------------------------------------------------------

Test of H0: no small-study effects          P = 0.090

.
.
. graph twoway (lfit logswt year) (scatter logswt year), ///
>         xlabel(2024(1)2018) ///
>   ytitle(log proportion of XXX) ///
>   xtitle(Year of publication)

. pwcorr logswt year, sig

             |   logswt     year
-------------+------------------
      logswt |   1.0000
             |
             |
        year |   0.7778   1.0000
             |   0.0011
             |

.
.
. ///OTP defaulters
>


. metaprop otp_defaulters tot_otpexit , by(sex) random  cimethod(exact) power(2) label(
> namevar=author, yearvar=year)  xlab(0, 1, 2, 3,  4) sortby(year author) texts(100)  r
> flevel(70)

           Study     |      ES       [95% Conf. Interval]  % Weight
---------------------+-----------------------------------------------
     Boys
UNICEF (2018)        |        3.14      3.00         3.28        7.04
UNICEF (2019)        |        3.11      3.00         3.23        7.10
UNICEF (2020)        |        2.28      2.19         2.38        7.15
UNICEF (2021)        |        2.21      2.11         2.30        7.14
UNICEF (2022)        |        2.47      2.39         2.55        7.17
UNICEF (2023)        |        1.96      1.90         2.02        7.20
UNICEF (2024)        |        2.77      2.66         2.87        7.13
 Sub-total           |
  Random pooled  ES  |        2.56      2.23         2.89       49.93
---------------------+-----------------------------------------------
     Girls
UNICEF (2018)        |        3.13      3.00         3.26        7.07
UNICEF (2019)        |        3.07      2.96         3.17        7.13
UNICEF (2020)        |        2.34      2.26         2.43        7.16
UNICEF (2021)        |        2.29      2.20         2.38        7.16
```

```
UNICEF (2022)          |        2.39      2.32         2.46        7.19
UNICEF (2023)          |        1.92      1.87         1.97        7.21
UNICEF (2024)          |        2.90      2.81         2.99        7.15
 Sub-total             |
  Random pooled  ES    |        2.57      2.23         2.92       50.07
---------------------+-------------------------------------------------
Overall                |
  Random pooled  ES    |        2.57      2.34         2.79      100.00
---------------------+-------------------------------------------------

Test(s) of heterogeneity:
               Heterogeneity  degrees of
                 statistic     freedom            P       I^2**
Boys                535.72      6            0.00     98.88%
Girls               734.48      6            0.00     99.18%
Overall            1270.40     13            0.00     98.98%
** I^2: the variation in ES attributable to heterogeneity)


Random: Test for heterogeneity between sub-groups:
                         0.00      1            0.95

Significance test(s) of  ES=0

Boys                 z= 15.31      p = 0.00
Girls                z= 14.72      p = 0.00
Overall              z= 22.40      p = 0.00
------------------------------------------------------------------------------

.
. ge logswt = log(_WT)

. ge logsees = log(_seES)

. **correct plot
. metabias6 _seES  _ES, graph(begg)

Note: default data input format (theta, se_theta) assumed.

Tests for Publication Bias

Begg's Test

  adj. Kendall's Score (P-Q) =      55
         Std. Dev. of Score =   18.27
          Number of Studies =      14
                          z  =    3.01
                    Pr > |z| =   0.003
                          z  =    2.96 (continuity corrected)
                    Pr > |z| =   0.003 (continuity corrected)

Egger's test
------------------------------------------------------------------------------
-----
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------+----------------------------------------------------------------
-----
       slope |  -.0001753   .0001102    -1.59   0.138    -.0004155
.0000649
        bias |   .0254606   .0044718     5.69   0.000     .0157174
.0352037
------------------------------------------------------------------------------
```

```
-----

. metafunnel _seES  _ES

Note: default data input format (theta, se_theta) assumed.

. metabias _seES  _ES, egger

Note: data input format theta se_theta assumed

Egger's test for small-study effects:
Regress standard normal deviate of intervention
  effect estimate against its standard error

.
Number of studies =  14                                   Root MSE      =
.0028
------------------------------------------------------------------------------
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------+----------------------------------------------------------------
       slope |  -.0001753   .0001102    -1.59   0.138    -.0004155
.0000649
        bias |   .0254606   .0044718     5.69   0.000     .0157174
.0352037
------------------------------------------------------------------------------

Test of H0: no small-study effects          P = 0.000

.
.
. graph twoway (lfit logswt year) (scatter logswt year), ///
>         xlabel(2024(1)2018) ///
>   ytitle(log proportion of XXX) ///
>   xtitle(Year of publication)

. pwcorr logswt year, sig

             |   logswt     year
-------------+------------------
      logswt |   1.0000
             |
             |
        year |   0.7100   1.0000
             |   0.0044
             |

.
. /// SC defaulter///


. metaprop sc_defaulters tot_sc_exit , by(sex) random  cimethod(exact)
power(2) label(n
> amevar=author, yearvar=year)  xlab(0, 1, 2, 3,  4) sortby(year author)
texts(100)  rf
> level(70)

           Study     |      ES       [95% Conf. Interval]  % Weight
---------------------+------------------------------------------------
     Boys
```

```
UNICEF (2018)          |        3.30      2.78         3.89         6.54
UNICEF (2019)          |        3.39      3.03         3.78         7.07
UNICEF (2020)          |        2.98      2.66         3.33         7.17
UNICEF (2021)          |        3.68      3.32         4.07         7.07
UNICEF (2022)          |        2.35      2.12         2.59         7.37
UNICEF (2023)          |        1.88      1.70         2.08         7.44
UNICEF (2024)          |        1.82      1.54         2.13         7.26
 Sub-total             |
  Random pooled  ES    |        2.75      2.21         3.30        49.93
----------------------+-----------------------------------------------------
     Girls
UNICEF (2018)          |        2.93      2.45         3.47         6.70
UNICEF (2019)          |        3.55      3.18         3.95         7.05
UNICEF (2020)          |        3.21      2.89         3.57         7.15
UNICEF (2021)          |        3.45      3.10         3.83         7.09
UNICEF (2022)          |        2.50      2.27         2.76         7.35
UNICEF (2023)          |        1.72      1.54         1.90         7.46
UNICEF (2024)          |        1.93      1.66         2.24         7.27
 Sub-total             |
  Random pooled  ES    |        2.75      2.17         3.33        50.07
----------------------+-----------------------------------------------------
Overall                |
  Random pooled  ES    |        2.75      2.37         3.12       100.00
----------------------+-----------------------------------------------------

Test(s) of heterogeneity:
               Heterogeneity  degrees of
                 statistic     freedom            P       I^2**
Boys                140.26      6            0.00     95.72%
Girls               162.63      6            0.00     96.31%
Overall             303.07     13            0.00     95.71%
** I^2: the variation in ES attributable to heterogeneity)


Random: Test for heterogeneity between sub-groups:
                         0.00      1            0.98

Significance test(s) of  ES=0

Boys                 z= 9.91       p = 0.00
Girls                z= 9.28       p = 0.00
Overall              z= 14.35      p = 0.00
------------------------------------------------------------------------------


.
. ge logswt = log(_WT)

. ge logsees = log(_seES)

. **correct plot
. metabias6 _seES  _ES, graph(begg)

Note: default data input format (theta, se_theta) assumed.

Tests for Publication Bias

Begg's Test

  adj. Kendall's Score (P-Q) =      53
         Std. Dev. of Score =   18.27
          Number of Studies =      14
                          z  =    2.90
                  Pr > |z| =   0.004
```

```
                           z  =    2.85 (continuity corrected)
                     Pr > |z| =   0.004 (continuity corrected)

Egger's test
------------------------------------------------------------------------------
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------+----------------------------------------------------------------
       slope |   .0001427   .0003525     0.40   0.693    -.0006254
.0009107
        bias |   .0555273   .0142085     3.91   0.002     .0245695
.086485
------------------------------------------------------------------------------

. metafunnel _seES  _ES

Note: default data input format (theta, se_theta) assumed.

. metabias _seES  _ES, egger

Note: data input format theta se_theta assumed

Egger's test for small-study effects:
Regress standard normal deviate of intervention
  effect estimate against its standard error

.
Number of studies =  14                                  Root MSE      =
.0143
------------------------------------------------------------------------------
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------+----------------------------------------------------------------
       slope |   .0001427   .0003525     0.40   0.693    -.0006254
.0009107
        bias |   .0555273   .0142085     3.91   0.002     .0245695
.086485
------------------------------------------------------------------------------

Test of H0: no small-study effects          P = 0.002

.
.
. graph twoway (lfit logswt year) (scatter logswt year), ///
>         xlabel(2024(1)2018) ///
>   ytitle(log proportion of XXX) ///
>   xtitle(Year of publication)

. pwcorr logswt year, sig

             |   logswt     year
-------------+------------------
      logswt |   1.0000
             |
             |
        year |   0.8210   1.0000
             |   0.0003
```

```
              |

.
.
. ///OTP non-recovery//
>

. metaprop otp_nonrecovery tot_otpexit , by(sex) random  cimethod(exact)
power(2) label
> (namevar=author, yearvar=year)  xlab(0, 1, 2, 3,  4) sortby(year
author) texts(100)
> rflevel(70)

           Study     |      ES       [95% Conf. Interval]  % Weight
---------------------+-------------------------------------------------
     Boys
UNICEF (2018)        |        1.63      1.53         1.74        7.12
UNICEF (2019)        |        3.44      3.32         3.56        7.10
UNICEF (2020)        |        2.02      1.93         2.11        7.14
UNICEF (2021)        |        1.55      1.47         1.63        7.14
UNICEF (2022)        |        1.90      1.83         1.97        7.15
UNICEF (2023)        |        1.16      1.12         1.21        7.17
UNICEF (2024)        |        1.13      1.06         1.20        7.15
 Sub-total
  Random pooled  ES  |        1.83      1.37         2.29       49.98
---------------------+-------------------------------------------------
     Girls
UNICEF (2018)        |        1.73      1.64         1.83        7.13
UNICEF (2019)        |        3.30      3.19         3.41        7.12
UNICEF (2020)        |        2.21      2.13         2.30        7.14
UNICEF (2021)        |        1.61      1.54         1.69        7.15
UNICEF (2022)        |        2.06      2.00         2.13        7.16
UNICEF (2023)        |        1.17      1.13         1.21        7.17
UNICEF (2024)        |        1.15      1.09         1.21        7.16
 Sub-total
  Random pooled  ES  |        1.89      1.42         2.36       50.02
---------------------+-------------------------------------------------
Overall              |
  Random pooled  ES  |        1.86      1.55         2.17      100.00
---------------------+-------------------------------------------------

Test(s) of heterogeneity:
               Heterogeneity  degrees of
                 statistic     freedom            P       I^2**
Boys                1570.37      6            0.00     99.62%
Girls               2024.30      6            0.00     99.70%
Overall             3597.25     13            0.00     99.64%
** I^2: the variation in ES attributable to heterogeneity)


Random: Test for heterogeneity between sub-groups:
                         0.03      1            0.86

Significance test(s) of  ES=0

Boys                z= 7.83       p = 0.00
Girls               z= 7.86       p = 0.00
Overall             z= 11.80      p = 0.00
------------------------------------------------------------------------------

.
. ge logswt = log(_WT)
```

```
. ge logsees = log(_seES)

. **correct plot
. metabias6 _seES  _ES, graph(begg)

Note: default data input format (theta, se_theta) assumed.

Tests for Publication Bias

Begg's Test

  adj. Kendall's Score (P-Q) =      33
         Std. Dev. of Score =   18.27
          Number of Studies =      14
                          z  =    1.81
                    Pr > |z| =   0.071
                          z  =    1.75 (continuity corrected)
                    Pr > |z| =   0.080 (continuity corrected)

Egger's test
------------------------------------------------------------------------------
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------+----------------------------------------------------------------
       slope |   .0001132   .0000695     1.63   0.129    -.0000382
.0002646
        bias |    .015741   .0044179     3.56   0.004     .0061151
.0253668
------------------------------------------------------------------------------

. metafunnel _seES  _ES

Note: default data input format (theta, se_theta) assumed.

. metabias _seES  _ES, egger

Note: data input format theta se_theta assumed

Egger's test for small-study effects:
Regress standard normal deviate of intervention
  effect estimate against its standard error

.
Number of studies =  14                                  Root MSE      =
.005
------------------------------------------------------------------------------
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------+----------------------------------------------------------------
       slope |   .0001132   .0000695     1.63   0.129    -.0000382
.0002646
        bias |    .015741   .0044179     3.56   0.004     .0061151
.0253668
------------------------------------------------------------------------------

Test of H0: no small-study effects          P = 0.004
```

```
.
.
. graph twoway (lfit logswt year) (scatter logswt year), ///
>         xlabel(2024(1)2018) ///
>   ytitle(log proportion of XXX) ///
>   xtitle(Year of publication)

. pwcorr logswt year, sig

             |   logswt     year
-------------+------------------
      logswt |   1.0000
             |
             |
        year |   0.8531   1.0000
             |   0.0001
             |

.
. ///SC non-recovery///
>


. metaprop sc_nonnrecovery tot_sc_exit , by(sex) random  cimethod(exact)
power(2) label
> (namevar=author, yearvar=year)  xlab(0, 1, 1.5, 2, 2.5) sortby(year
author) texts(100
> )  rflevel(70)

           Study     |      ES       [95% Conf. Interval]  % Weight
---------------------+-----------------------------------------------
     Boys
UNICEF (2018)        |        1.06      0.77         1.42        6.35
UNICEF (2019)        |        0.98      0.79         1.20        7.13
UNICEF (2020)        |        0.73      0.57         0.91        7.33
UNICEF (2021)        |        0.44      0.32         0.59        7.49
UNICEF (2022)        |        0.59      0.47         0.71        7.55
UNICEF (2023)        |        0.46      0.37         0.57        7.63
UNICEF (2024)        |        2.22      1.91         2.56        6.30
 Sub-total
  Random pooled  ES |        0.90      0.61         1.18       49.78
---------------------+-----------------------------------------------
     Girls
UNICEF (2018)        |        1.38      1.06         1.77        6.10
UNICEF (2019)        |        0.76      0.59         0.96        7.26
UNICEF (2020)        |        0.77      0.61         0.95        7.32
UNICEF (2021)        |        0.25      0.16         0.36        7.62
UNICEF (2022)        |        0.53      0.42         0.65        7.57
UNICEF (2023)        |        0.45      0.36         0.55        7.64
UNICEF (2024)        |        1.65      1.40         1.93        6.72
 Sub-total
  Random pooled  ES |        0.80      0.53         1.06       50.22
---------------------+-----------------------------------------------
Overall              |
  Random pooled  ES |        0.84      0.66         1.02      100.00
---------------------+-----------------------------------------------

Test(s) of heterogeneity:
               Heterogeneity  degrees of
                 statistic     freedom           P       I^2**
Boys                137.12           6        0.00      95.62%
Girls               143.31           6        0.00      95.81%
Overall             287.02          13        0.00      95.47%
```

```
** I^2: the variation in ES attributable to heterogeneity)


Random: Test for heterogeneity between sub-groups:
                          0.25      1            0.61

Significance test(s) of  ES=0

Boys                   z= 6.21       p = 0.00
Girls                  z= 5.93       p = 0.00
Overall                z= 9.03       p = 0.00
------------------------------------------------------------------------------

.
. ge logswt = log(_WT)

. ge logsees = log(_seES)

. **correct plot
. metabias6 _seES  _ES, graph(begg)

Note: default data input format (theta, se_theta) assumed.

Tests for Publication Bias

Begg's Test

  adj. Kendall's Score (P-Q) =      69
         Std. Dev. of Score =   18.27
          Number of Studies =      14
                          z  =    3.78
                    Pr > |z| =   0.000
                          z  =    3.72 (continuity corrected)
                    Pr > |z| =   0.000 (continuity corrected)

Egger's test
------------------------------------------------------------------------------
------
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------+----------------------------------------------------------------
------
       slope |   .0002478   .0000705     3.52   0.004     .0000942
.0004014
        bias |   .0791205   .0128149     6.17   0.000     .0511991
.1070418
------------------------------------------------------------------------------
------

. metafunnel _seES  _ES

Note: default data input format (theta, se_theta) assumed.

. metabias _seES  _ES, egger

Note: data input format theta se_theta assumed

Egger's test for small-study effects:
Regress standard normal deviate of intervention
  effect estimate against its standard error

.
Number of studies =  14                                  Root MSE      =
```

```
.0239
------------------------------------------------------------------------------
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------+----------------------------------------------------------------
       slope |   .0002478   .0000705     3.52   0.004     .0000942
.0004014
        bias |   .0791205   .0128149     6.17   0.000     .0511991
.1070418
------------------------------------------------------------------------------

Test of H0: no small-study effects          P = 0.000

.
.
. graph twoway (lfit logswt year) (scatter logswt year), ///
>         xlabel(2024(1)2018) ///
>   ytitle(log proportion of XXX) ///
>   xtitle(Year of publication)

. pwcorr logswt year, sig

             |   logswt     year
-------------+------------------
      logswt |   1.0000
             |
             |
        year |   0.2657   1.0000
             |   0.3585
             |

.
. ///SC transfers///

. metaprop sc_transfers tot_sc_exit , by(sex) random  cimethod(exact)
power(2) label(na
> mevar=author, yearvar=year)  xlab(0, 5, 10, 15, 20, 25) sortby(year
author) texts(100
> )  rflevel(70)

           Study     |      ES       [95% Conf. Interval]  % Weight
---------------------+-----------------------------------------------------
     Boys
UNICEF (2018)        |       24.95     23.64        26.30        6.80
UNICEF (2019)        |       13.82     13.13        14.54        7.16
UNICEF (2020)        |       10.97     10.37        11.59        7.19
UNICEF (2021)        |       13.90     13.22        14.59        7.17
UNICEF (2022)        |       12.17     11.67        12.68        7.23
UNICEF (2023)        |       12.40     11.94        12.87        7.24
UNICEF (2024)        |       10.39      9.74        11.07        7.17
 Sub-total           |
  Random pooled  ES  |       14.01     11.98        16.05       49.96
---------------------+-----------------------------------------------------
     Girls
UNICEF (2018)        |       22.49     21.27        23.76        6.86
UNICEF (2019)        |       12.83     12.15        13.53        7.16
UNICEF (2020)        |       10.60     10.02        11.20        7.20
UNICEF (2021)        |       14.23     13.54        14.94        7.16
UNICEF (2022)        |       12.99     12.48        13.53        7.22
UNICEF (2023)        |       12.33     11.88        12.79        7.24
```

```
UNICEF (2024)          |       10.26      9.64        10.90        7.19
 Sub-total
  Random pooled  ES    |       13.62     11.77        15.46       50.04
---------------------+-------------------------------------------------
Overall                |
  Random pooled  ES    |       13.81     12.50        15.11      100.00
---------------------+-------------------------------------------------

Test(s) of heterogeneity:
               Heterogeneity  degrees of
                 statistic     freedom            P       I^2**
Boys                438.09      6            0.00     98.63%
Girls               371.62      6            0.00     98.39%
Overall             809.97     13            0.00     98.39%
** I^2: the variation in ES attributable to heterogeneity)


Random: Test for heterogeneity between sub-groups:
                        0.08      1            0.78

Significance test(s) of  ES=0

Boys                 z= 13.53      p = 0.00
Girls                z= 14.45      p = 0.00
Overall              z= 20.73      p = 0.00
------------------------------------------------------------------------------

.
. ge logswt = log(_WT)

. ge logsees = log(_seES)

. **correct plot
. metabias6 _seES  _ES, graph(begg)

Note: default data input format (theta, se_theta) assumed.

Tests for Publication Bias

Begg's Test

  adj. Kendall's Score (P-Q) =      39
         Std. Dev. of Score =   18.27
          Number of Studies =      14
                          z  =    2.14
                   Pr > |z| =   0.033
                          z  =    2.08 (continuity corrected)
                   Pr > |z| =   0.037 (continuity corrected)

Egger's test
------------------------------------------------------------------------------
-----
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------+----------------------------------------------------------------
-----
       slope |    .000334   .0007077     0.47   0.645     -.001208
.001876
        bias |   .0229001   .0055708     4.11   0.001     .0107624
.0350378
------------------------------------------------------------------------------
-----
```

```
. metafunnel _seES  _ES

Note: default data input format (theta, se_theta) assumed.

. metabias _seES  _ES, egger

Note: data input format theta se_theta assumed

Egger's test for small-study effects:
Regress standard normal deviate of intervention
  effect estimate against its standard error

.
Number of studies =  14                                   Root MSE      =
.0044
------------------------------------------------------------------------------
     Std_Eff | Coefficient  Std. err.      t    P>|t|     [95% conf.
interval]
-------------+----------------------------------------------------------------
       slope |    .000334   .0007077     0.47   0.645     -.001208
.001876
        bias |   .0229001   .0055708     4.11   0.001     .0107624
.0350378
------------------------------------------------------------------------------

Test of H0: no small-study effects          P = 0.001

.
.
. graph twoway (lfit logswt year) (scatter logswt year), ///
>         xlabel(2024(1)2018) ///
>   ytitle(log proportion of XXX) ///
>   xtitle(Year of publication)

. pwcorr logswt year, sig

             |   logswt     year
-------------+------------------
      logswt |   1.0000
             |
             |
        year |   0.6750   1.0000
             |   0.0081
             |

.
end of do-file


------------------------------------------------------------------------------
--------------
```