

Behaviour Change Meta-regression Models

Controlling for comparator use of BCT/intervention function using revised method

Prepared by Craig Whittington

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Covariates:

Variable	Categories	Label
iif1	Yes_No	IIF1
iif2	Yes_No	IIF2
iif3	Yes_No	IIF3
iif4	Yes_No	IIF4
iif5	Yes_No	IIF5
iif6	Yes_No	IIF6
iif7	Yes_No	IIF7
iif8	Yes_No	IIF8
iif9	Yes_No	IIF9
itb	Yes_No	ITB
Cluster1_SS	Yes_No	Cluster1: Social Support
Cluster2_Reg	Yes_No	Cluster2: Regulation
Cluster3_FM	Yes_No	Cluster3: Feedback & Monitoring
Cluster4_Asc	Yes_No	Cluster4: Associations
Cluster5_RS	Yes_No	Cluster5: Repetition and Substitutions
Cluster6_Ant	Yes_No	Cluster6: Antecedents
Cluster7_SK	Yes_No	Cluster7: Shaping Knowledge
Cluster8_SB	Yes_No	Cluster8: Self-belief
Cluster9_SC	Yes_No	Cluster9: Scheduled Consequences
Cluster10_RT	Yes_No	Cluster10: Reward & Threat
Cluster11_GP	Yes_No	Cluster11: Goals & Planning
Cluster12_CO	Yes_No	Cluster12: Comparison of Outcomes
Cluster13_Id	Yes_No	Cluster13: Identity
Cluster14_NC	Yes_No	Cluster14: Natural Consequences
Cluster15_CB	Yes_No	Cluster15: Comparison of Behaviour
Cluster16_CL	Yes_No	Cluster16: Covert Learning

Revised analyses - controlling for Cluster/intervention function in control group using revised method

Revised method involved creating a new dummy variable for each cluster/IF where, for example:

```
Cluster1[interv]=0 & Cluster1[control]=0, then Rev_Cluster1 was coded 0
Cluster1[interv]=1 & Cluster1[control]=0, then Rev_Cluster1 was coded 1
Cluster1[interv]=1 & Cluster1[control]=1, then Rev_Cluster1 was coded 0
Cluster1[interv]=0 & Cluster1[control]=1, then Rev_Cluster1 was coded 0
```

SEXUAL HEALTH

Meta-analysis

```
. metaan ES _SE if Target_Beh==1, dl forest label(StudyID)
```

DerSimonian-Laird random-effects method selected

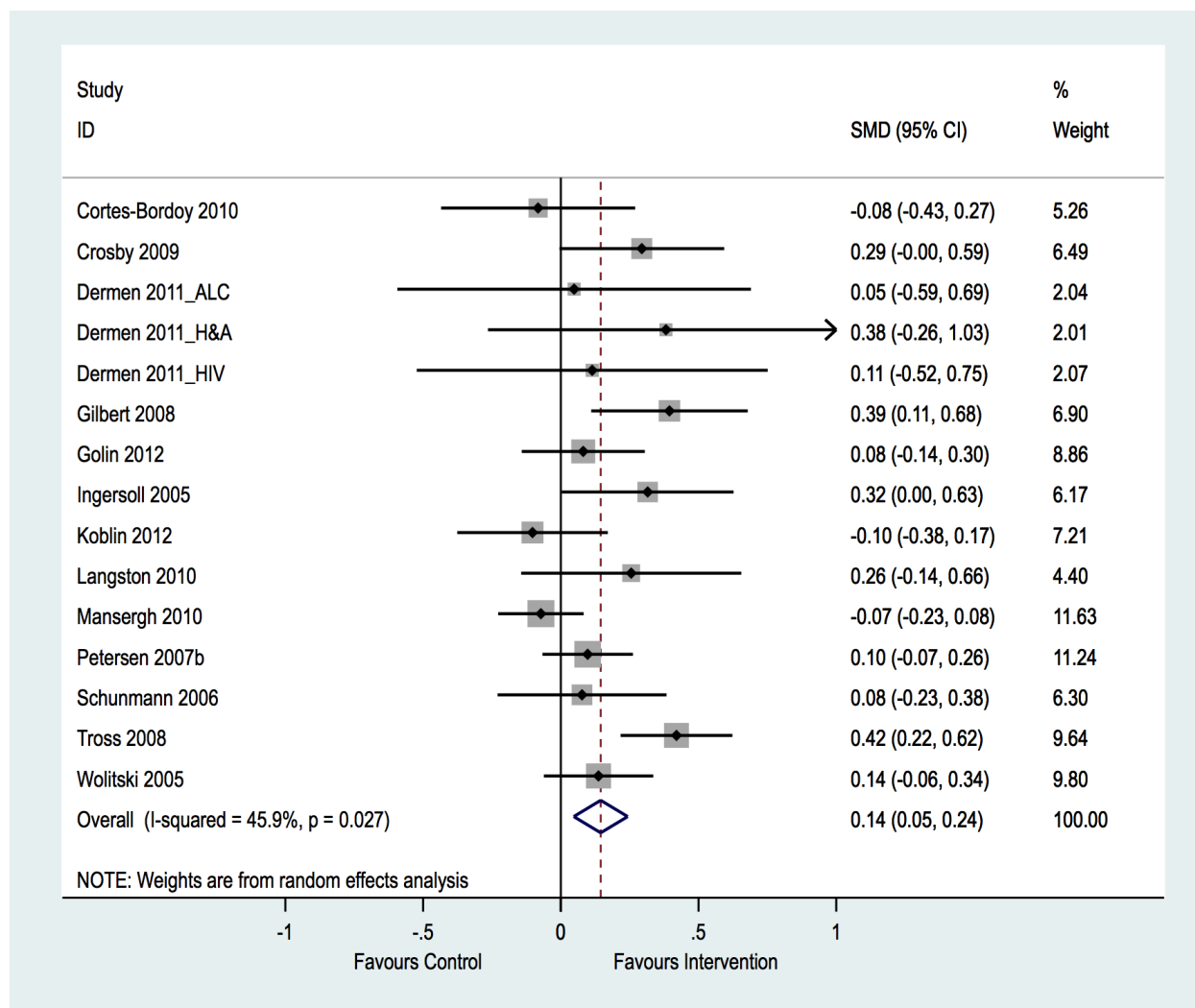
Study		Effect	[95% Conf. Interval]		% Weight
-----+-----					
Cortes-Bordoy 2010		-0.082	-0.435	0.270	5.26
Crosby 2009		0.294	-0.005	0.593	6.49
Dermen 2011_ALC		0.048	-0.593	0.690	2.04
Dermen 2011_H&A		0.382	-0.265	1.028	2.01
Dermen 2011_HIV		0.114	-0.523	0.751	2.07
Gilbert 2008		0.395	0.110	0.679	6.90
Golin 2012		0.081	-0.142	0.305	8.86
Ingersoll 2005		0.315	0.004	0.627	6.17
Koblin 2012		-0.103	-0.376	0.171	7.21
Langston 2010		0.256	-0.144	0.655	4.40
Mansergh 2010		-0.072	-0.227	0.083	11.63
Petersen 2007b		0.098	-0.067	0.262	11.24
Schunmann 2006		0.077	-0.230	0.384	6.30
Tross 2008		0.420	0.217	0.623	9.64
Wolitski 2005		0.137	-0.062	0.336	9.80
-----+-----					
Overall effect (dl)		0.145	0.047	0.243	100.00

Heterogeneity chi-squared = 25.88 (d.f. = 14) p = 0.027

I-squared (variation in ES attributable to heterogeneity) = 45.9% (95% CI = 0 to 69.06)

Estimate of between-study variance Tau-squared = 0.0152

Test of ES=0 : z= 2.90 p = 0.004



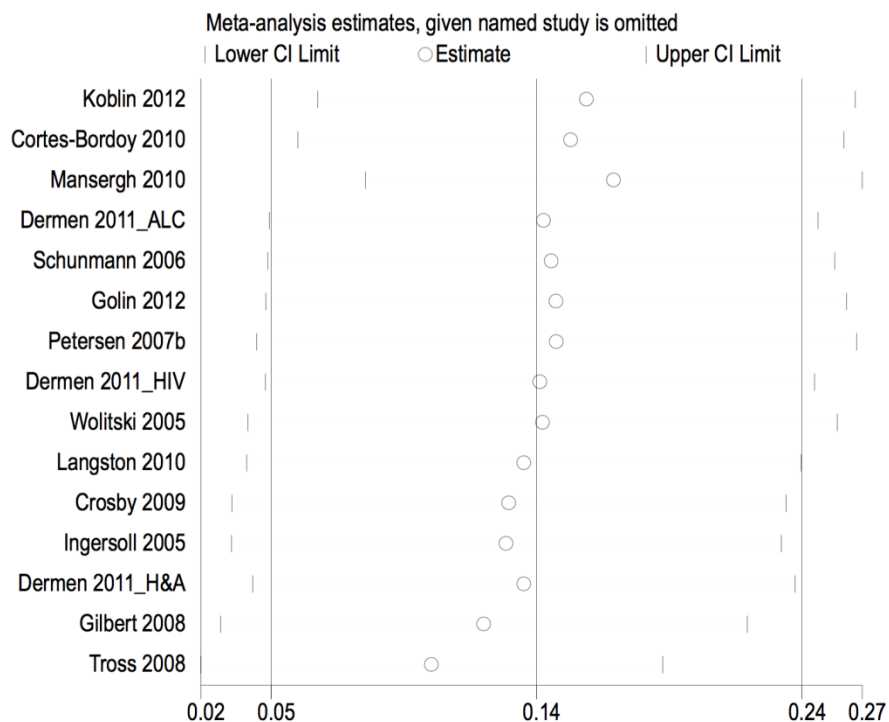
Outliers

```
. metaninf ES _SE if Target_Beh==1, label(namevar=StudyID) random
```

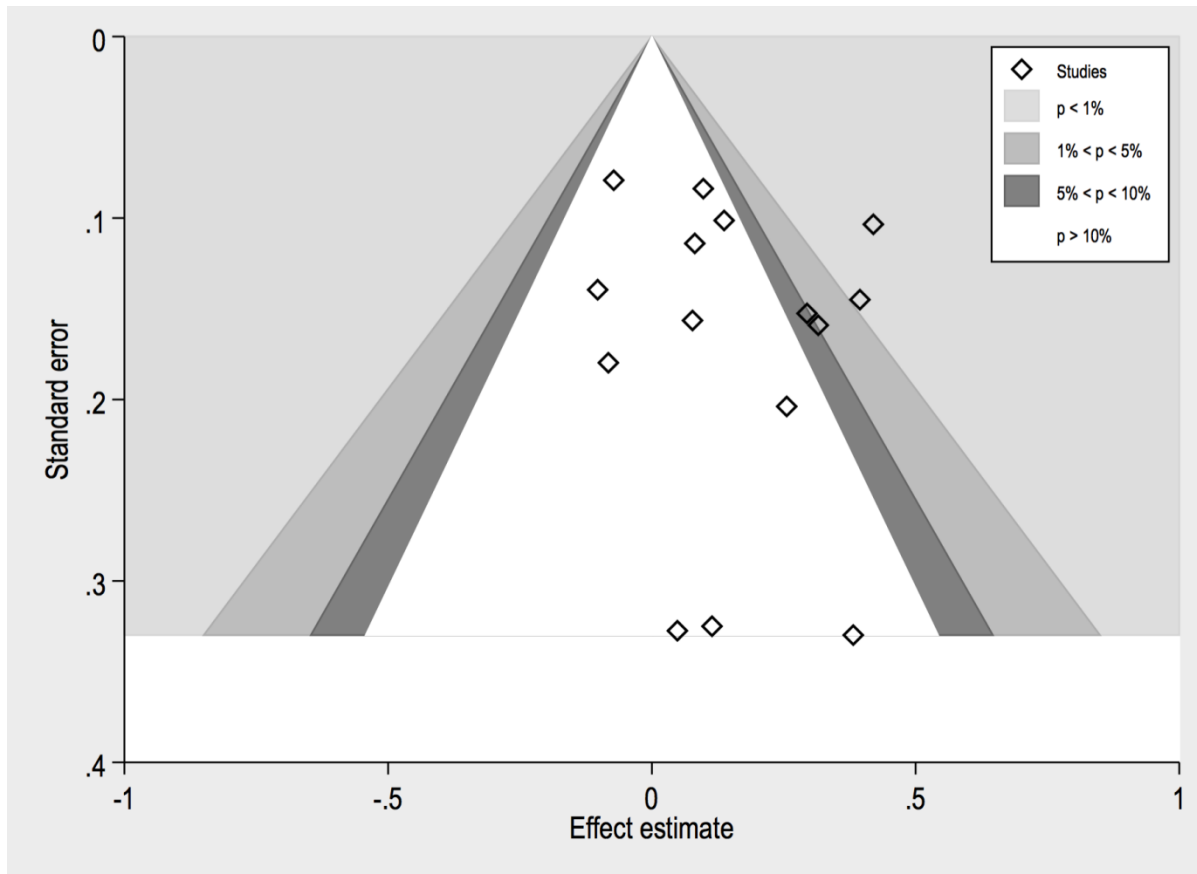
Study omitted	Estimate	[95% Conf. Interval]
Koblin 2012	.16326833	.06408713 .26244953
Cortes-Bordoy 2010	.15752694	.05670537 .25834849
Mansergh 2010	.17335628	.08168732 .26502526
Dermen 2011_ALC	.14747903	.04624901 .24870904
Schunmann 2006	.15030524	.04572014 .25489035
Golin 2012	.15208486	.04493742 .25923228

Petersen 2007b		.15221345	.04151234	.26291457
Dermen 2011_HIV		.14610371	.044737	.24747041
Wolitski 2005		.14708555	.03832681	.2558443
Langston 2010		.14017203	.03786758	.24247648
Crosby 2009		.13468958	.03242434	.23695484
Ingersoll 2005		.13371125	.03220603	.23521645
Dermen 2011_H&A		.14017621	.04007941	.240273
Gilbert 2008		.12541217	.02818007	.22264427
Tross 2008		.10614477	.02090535	.1913842
-----+-----				
Combined		.14484664	.04690475	.24278852

No trials had point estimate outside the combined CI.



Publication bias



```
. metabias ES SE if Target_Beh==1, 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 = 15 Root MSE = 1.374

	Std_Eff	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
slope		.0330191	.1210846	0.27	0.789	-.2285683 .2946065
bias		.781698	.924796	0.85	0.413	-1.216202 2.779598

Test of H0: no small-study effects P = 0.413

```
. metatrim ES _SE          if Target_Beh==1, reffect funnel
```

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

Meta-analysis

	Pooled	95% CI		Asymptotic		No. of
Method	Est	Lower	Upper	z_value	p_value	studies
Fixed	0.128	0.061	0.194	3.773	0.000	15
Random	0.145	0.047	0.243	2.899	0.004	

Test for heterogeneity: Q= 25.882 on 14 degrees of freedom (p= 0.027)

Moment-based estimate of between studies variance = 0.015

Trimming estimator: Linear

Meta-analysis type: Random-effects model

iteration	estimate	Tn	# to trim	diff
1	0.145	65	1	120
2	0.106	76	2	22
3	0.074	92	4	32
4	0.055	95	5	6
5	0.039	96	5	2
6	0.039	96	5	0

Filled

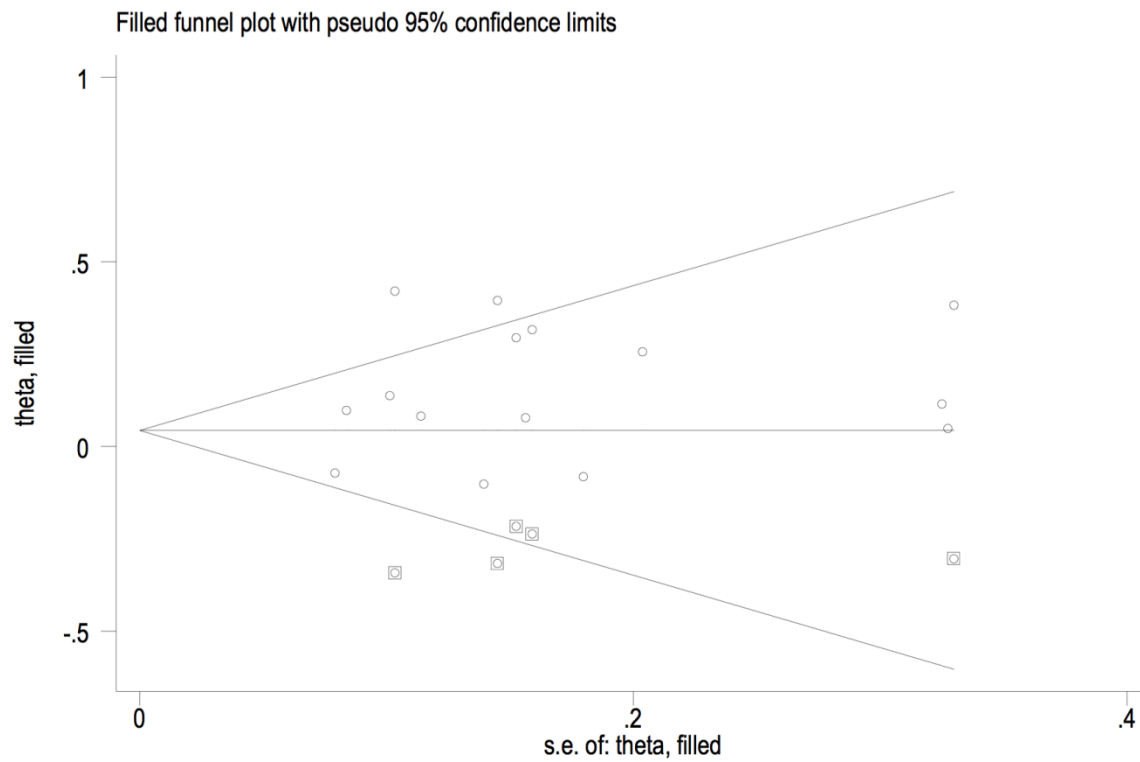
Meta-analysis

	Pooled	95% CI		Asymptotic		No. of
Method	Est	Lower	Upper	z_value	p_value	studies
Fixed	0.039	-0.020	0.098	1.294	0.196	20

Random | 0.043 -0.069 0.156 0.757 0.449

Test for heterogeneity: $Q = 59.253$ on 19 degrees of freedom ($p = 0.000$)

Moment-based estimate of between studies variance = 0.039



Meta-regression of BCT Clusters

Meta-regression	Number of obs	=	15
REML estimate of between-study variance	tau2	=	.0188
% residual variation due to heterogeneity	I-squared_res	=	48.93%
Proportion of between-study variance explained	Adj R-squared	=	-12.19%
With Knapp-Hartung modification			

11

```

.
. *Model Rev_SXH_U1b
.
. tabulate Rev_Cluster2_Reg          if Target_Beh==1

```

Cluster2:				
Regulation				
-				
Controlling				
for				
comparator				
use		Freq.	Percent	Cum.
-----+-----				
0		13	86.67	86.67
1		2	13.33	100.00
-----+-----				
Total		15	100.00	

```

.
.
. *Model Rev_SXH_U1c
.
. tabulate Rev_Cluster3_FM          if Target_Beh==1

```

Cluster3:				
Feedback &				
Monitoring				
-				
Controlling				
for				
comparator				
use		Freq.	Percent	Cum.
-----+-----				
0		6	40.00	40.00

1		9	60.00	100.00
---	--	---	-------	--------

-----+-----

Total		15	100.00
-------	--	----	--------

```
.
. metareg ES Rev_Cluster3_FM if Target_Beh==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	15
REML estimate of between-study variance	tau2	=	.01932
% residual variation due to heterogeneity	I-squared_res	=	49.76%
Proportion of between-study variance explained	Adj R-squared	=	-15.30%
With Knapp-Hartung modification			

ES		Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----						
Rev_Cluster3_FM		.0356279	.1078827	0.33	0.746	-.1974384 .2686942
_cons		.1254331	.0825175	1.52	0.152	-.0528351 .3037013

```
.
. *Model Rev_SXH_U1d
.
. tabulate Rev_Cluster4_Asc if Target_Beh==1
```

Cluster4:				
Association				
s -				
Controlling				
for				
comparator				
use		Freq.	Percent	Cum.
-----+-----				
0		15	100.00	100.00
-----+-----				

```

Total |          15      100.00

.

. *Model Rev_SXH_Ule

.

. tabulate Rev_Cluster5_RS          if Target_Beh==1


Cluster5: |
Repetition |
and |
Substitutio |
ns - |
Controlling |
for |
comparator |
use |      Freq.      Percent      Cum.
-----+-----
      0 |          10      66.67      66.67
      1 |           5      33.33     100.00
-----+-----
Total |          15     100.00

.

. metareg ES Rev_Cluster5_RS          if Target_Beh==1, wsse(_SE) knapphartung reml


Meta-regression                      Number of obs =          15
REML estimate of between-study variance      tau2              =    .01947
% residual variation due to heterogeneity     I-squared_res      =   49.75%
Proportion of between-study variance explained  Adj R-squared      = -16.23%
With Knapp-Hartung modification

-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster5_RS |   .0152358   .1097235    0.14   0.892   - .2218073   .252279

```

```

      _cons |      .1405269      .0676756      2.08      0.058      -.0056773      .2867312
-----+-----

.
. *Model Rev_SXH_U1f
.
. tabulate Rev_Cluster6_Ant          if Target_Beh==1

Cluster6: |
Antecedents |
      - |
Controlling |
      for |
comparator |
      use |      Freq.      Percent      Cum.
-----+-----
      0 |      10      66.67      66.67
      1 |       5      33.33     100.00
-----+-----
Total |      15     100.00

.
. metareg ES Rev_Cluster6_Ant      if Target_Beh==1, wsse(_SE) knapphartung reml

Meta-regression                                Number of obs =      15
REML estimate of between-study variance          tau2              =   .01933
% residual variation due to heterogeneity         I-squared_res     =  49.73%
Proportion of between-study variance explained   Adj R-squared     = -15.35%
With Knapp-Hartung modification

-----+-----
      ES |      Coef.      Std. Err.      t      P>|t|      [95% Conf. Interval]
-----+-----
Rev_Cluster6_Ant |   -.0194584   .1197784    -0.16   0.873    -.278224    .2393072
      _cons |    .151528   .0622091     2.44   0.030    .0171335    .2859225

```

```

-----

.
. *Model Rev_SXH_Ulg
.
. tabulate Rev_Cluster7_SK          if Target_Beh==1

Cluster7: |
  Shaping |
Knowledge - |
Controlling |
  for |
comparator |
  use |      Freq.      Percent      Cum.
-----+-----
      0 |          9      60.00      60.00
      1 |          6      40.00     100.00
-----+-----
Total   |         15     100.00

.

. metareg ES Rev_Cluster7_SK          if Target_Beh==1, wsse(_SE) knapphartung reml

Meta-regression                      Number of obs =      15
REML estimate of between-study variance      tau2          =   .01871
% residual variation due to heterogeneity     I-squared_res    =  48.40%
Proportion of between-study variance explained  Adj R-squared   = -11.64%
With Knapp-Hartung modification

-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster7_SK |   -.043706   .1054759    -0.41   0.685    -.2715729    .1841609
      _cons |   .1687875   .0760099     2.22   0.045     .0045781    .3329969
-----

```

```

.
. *Model Rev_SXH_U1h
.
. tabulate Rev_Cluster8_SB          if Target_Beh==1

```

Cluster8:				
Self-belief				
-				
Controlling				
for				
comparator				
use	Freq.	Percent	Cum.	
-----+-----				
0	13	86.67	86.67	
1	2	13.33	100.00	
-----+-----				
Total	15	100.00		

```

.
.
. *Model Rev_SXH_U1i
.
. tabulate Rev_Cluster9_SC          if Target_Beh==1

```

Cluster9:				
Scheduled				
Consequence				
s -				
Controlling				
for				
comparator				
use	Freq.	Percent	Cum.	
-----+-----				

```

0 | 15 100.00 100.00
-----+-----
Total | 15 100.00

.
.
. *Model Rev_SXH_U1j
.
. tabulate Rev_Cluster10_RT if Target_Beh==1

Cluster10: |
Reward & |
Threat - |
Controlling |
for |
comparator |
use | Freq. Percent Cum.
-----+-----
0 | 13 86.67 86.67
1 | 2 13.33 100.00
-----+-----
Total | 15 100.00

.
.
. *Model Rev_SXH_U1k
.
. tabulate Rev_Cluster11_GP if Target_Beh==1

Cluster11: |
Goals & |
Planning - |
Controlling |
for |

```

comparator			
use	Freq.	Percent	Cum.
-----+-----			
0	7	46.67	46.67
1	8	53.33	100.00
-----+-----			
Total	15	100.00	

```
.
. metareg ES Rev_Cluster11_GP if Target_Beh==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                      Number of obs =      15
REML estimate of between-study variance      tau2          =    .0183
% residual variation due to heterogeneity     I-squared_res   =  48.68%
Proportion of between-study variance explained  Adj R-squared   =  -9.22%
With Knapp-Hartung modification
```

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_Cluster11_GP	-.03733	.1143579	-0.33	0.749	-.2843851	.2097252
_cons	.1721023	.0956962	1.80	0.095	-.0346367	.3788413
-----+-----						

```
.
. *Model Rev_SXH_U11
.
. tabulate Rev_Cluster12_CO if Target_Beh==1
```

```
Cluster12: |
Comparison |
of Outcomes |
- |
Controlling |
for |
```

comparator			
use	Freq.	Percent	Cum.
-----+-----			
0	9	60.00	60.00
1	6	40.00	100.00
-----+-----			
Total	15	100.00	

```
.
. metareg ES Rev_Cluster12_CO if Target_Beh==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                      Number of obs =      15
REML estimate of between-study variance      tau2          =   .01731
% residual variation due to heterogeneity     I-squared_res   =  46.82%
Proportion of between-study variance explained  Adj R-squared   =  -3.32%
With Knapp-Hartung modification
```

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_Cluster12_CO	-.1289195	.1107053	-1.16	0.265	-.3680838	.1102447
_cons	.1868776	.0626164	2.98	0.011	.051603	.3221522
-----+-----						

```
.
. *Model Rev_SXH_U1m
.
. tabulate Rev_Cluster13_Id if Target_Beh==1
```

```
Cluster13: |
Identity - |
Controlling |
for |
comparator |
use | Freq. Percent Cum.
```

-----+-----			
0	15	100.00	100.00
-----+-----			
Total	15	100.00	

```
.
.
. *Model Rev_SXH_Uln
.
. tabulate Rev_Cluster14_NC          if Target_Beh==1
```

Cluster14:			
Natural			
Consequence			
s -			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
-----+-----			
0	9	60.00	60.00
1	6	40.00	100.00
-----+-----			
Total	15	100.00	

```
.
.
. metareg ES Rev_Cluster14_NC      if Target_Beh==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	15
REML estimate of between-study variance	tau2	= .01909
% residual variation due to heterogeneity	I-squared_res	= 49.73%
Proportion of between-study variance explained	Adj R-squared	= -13.92%
With Knapp-Hartung modification		

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_Cluster14_NC	-.0229167	.1165206	-0.20	0.847	-.2746441	.2288107
_cons	.152901	.0629725	2.43	0.030	.0168572	.2889447

```
.
. *Model Rev_SXH_U1o
.
. tabulate Rev_Cluster15_CB          if Target_Beh==1
```

Cluster15:			
Comparison			
of			
Behaviour -			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
-----+-----			
0	9	60.00	60.00
1	6	40.00	100.00
-----+-----			
Total	15	100.00	

```
.
. metareg ES Rev_Cluster15_CB      if Target_Beh==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	15
REML estimate of between-study variance	tau2 =	.0194
% residual variation due to heterogeneity	I-squared_res =	49.74%
Proportion of between-study variance explained	Adj R-squared =	-15.81%
With Knapp-Hartung modification		

	ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----							
Rev_Cluster15_CB		.0118807	.1084894	0.11	0.914	-.2224965	.2462579
_cons		.1415123	.0688854	2.05	0.061	-.0073056	.2903302

```
.
. *Model Rev_SXH_U1p
.
. tabulate Rev_Cluster16_CL if Target_Beh==1
```

Cluster16:				
Covert				
Learning -				
Controlling				
for				
comparator				
use		Freq.	Percent	Cum.
-----+-----				
0		15	100.00	100.00
-----+-----				
Total		15	100.00	

Meta-regression of Intervention function

```
. *Model Rev_SXH_U2a
.
. tabulate Rev_iif1 if Target_Beh==1
```

Rev_iif1		Freq.	Percent	Cum.
-----+-----				
0		7	46.67	46.67
1		8	53.33	100.00
-----+-----				

Total	15	100.00
-------	----	--------

```
.
. metareg ES Rev_iif1 if Target_Beh==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	15
REML estimate of between-study variance	tau2	= .01797
% residual variation due to heterogeneity	I-squared_res	= 45.51%
Proportion of between-study variance explained	Adj R-squared	= -7.28%
With Knapp-Hartung modification		

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_iif1	-.0473822	.1044469	-0.45	0.658	-.273026	.1782617
_cons	.1682587	.0718181	2.34	0.036	.0131052	.3234122

```
.
. *Model Rev_SXH_U2b
.
. tabulate Rev_iif2 if Target_Beh==1
```

Rev_iif2	Freq.	Percent	Cum.
-----+-----			
0	11	73.33	73.33
1	4	26.67	100.00
-----+-----			
Total	15	100.00	

```
.
. metareg ES Rev_iif2 if Target_Beh==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	15
REML estimate of between-study variance	tau2	= .01739

```
% residual variation due to heterogeneity          I-squared_res = 48.86%
Proportion of between-study variance explained      Adj R-squared = -3.82%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_iif2	-.0963455	.1601816	-0.60	0.558	-.4423967	.2497058
_cons	.1570443	.0550563	2.85	0.014	.0381024	.2759862

```
.
. *Model Rev_SXH_U2c
.
. tabulate Rev_iif3                                if Target_Beh==1
```

Rev_iif3	Freq.	Percent	Cum.
-----+-----			
0	13	86.67	86.67
1	2	13.33	100.00
-----+-----			
Total	15	100.00	

```
.
.
. *Model Rev_SXH_U2d
.
. tabulate Rev_iif4                                if Target_Beh==1
```

Rev_iif4	Freq.	Percent	Cum.
-----+-----			
0	14	93.33	93.33
1	1	6.67	100.00
-----+-----			
Total	15	100.00	

```

.
.
. *Model Rev_SXH_U2e
.
. tabulate Rev_iif5                                if Target_Beh==1

      Rev_iif5 |      Freq.    Percent    Cum.
-----+-----
          0 |         10     66.67     66.67
          1 |          5     33.33    100.00
-----+-----
        Total |         15    100.00

.
. metareg ES Rev_iif5                                if Target_Beh==1, wsse(_SE) knapphartung reml

Meta-regression                                Number of obs =      15
REML estimate of between-study variance          tau2              =   .01956
% residual variation due to heterogeneity        I-squared_res       =  49.74%
Proportion of between-study variance explained  Adj R-squared       = -16.77%
With Knapp-Hartung modification

-----+-----
      ES |      Coef.   Std. Err.      t    P>|t|    [95% Conf. Interval]
-----+-----
    Rev_iif5 |   .0229273   .1088628     0.21   0.836   - .2122564   .258111
      _cons |   .1371735   .0688713     1.99   0.068   - .011614   .2859609
-----+-----

.
. *Model Rev_SXH_U2f
.
. tabulate Rev_iif6                                if Target_Beh==1

```

Rev_iif6	Freq.	Percent	Cum.
0	15	100.00	100.00
Total	15	100.00	

. *Model Rev_SXH_U2g

. tabulate Rev_iif7 if Target_Beh==1

Rev_iif7	Freq.	Percent	Cum.
0	12	80.00	80.00
1	3	20.00	100.00
Total	15	100.00	

. metareg ES Rev_iif7 if Target_Beh==1, wsse(_SE) knapphartung reml

Meta-regression Number of obs = 15
 REML estimate of between-study variance tau2 = .01965
 % residual variation due to heterogeneity I-squared_res = 49.62%
 Proportion of between-study variance explained Adj R-squared = -17.27%
 With Knapp-Hartung modification

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_iif7	.0188494	.1204664	0.16	0.878	-.2414025 .2791012
_cons	.1413102	.0624413	2.26	0.041	.0064139 .2762064

```

.
. *Model Rev_SXH_U2h
.
. tabulate Rev_iif8                                if Target_Beh==1

      Rev_iif8 |      Freq.    Percent    Cum.
-----+-----
          0 |         12      80.00      80.00
          1 |          3      20.00     100.00
-----+-----
        Total |         15     100.00
.

. metareg ES Rev_iif8                                if Target_Beh==1, wsse(_SE) knapphartung reml

```

```

Meta-regression                                Number of obs =      15
REML estimate of between-study variance          tau2              =    .0195
% residual variation due to heterogeneity         I-squared_res      =  49.70%
Proportion of between-study variance explained    Adj R-squared      = -16.38%
With Knapp-Hartung modification

```

```

-----+-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
  Rev_iif8 |   .0580355   .1199458     0.48   0.637    - .2010917    .3171627
    _cons |   .1306258   .0623958     2.09   0.056    - .0041721    .2654236
-----+-----

```

```

.
. *Model Rev_SXH_U2i
.
. tabulate Rev_iif9                                if Target_Beh==1

```

```

      Rev_iif9 |      Freq.    Percent    Cum.
-----+-----

```

0	4	26.67	26.67
1	11	73.33	100.00
-----+-----			
Total	15	100.00	

```
.
. metareg ES Rev_iif9 if Target_Beh==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      15
REML estimate of between-study variance         tau2              =    .0184
% residual variation due to heterogeneity        I-squared_res     =  48.36%
Proportion of between-study variance explained   Adj R-squared     =  -9.80%
With Knapp-Hartung modification
```

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_iif9	.1107458	.1142525	0.97	0.350	-.1360817	.3575734
_cons	.0687156	.0954395	0.72	0.484	-.1374689	.2749002

```
.
.
```

Meta-regression of Theory-basedness

```
. *Model Rev_SXH_U3
```

```
.
```

```
. tabulate itb                                if Target_Beh==1
```

ITB	Freq.	Percent	Cum.
-----+-----			
No	12	80.00	80.00
Yes	3	20.00	100.00
-----+-----			
Total	15	100.00	

```
.
```

```
. metareg ES itb                                if Target_Beh==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      15
REML estimate of between-study variance         tau2              =   .01844
% residual variation due to heterogeneity        I-squared_res     =  48.80%
Proportion of between-study variance explained  Adj R-squared     = -10.06%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
itb	-.0796645	.1254307	-0.64	0.536	-.3506411	.1913121
_cons	.1640487	.0596917	2.75	0.017	.0350926	.2930049

ALCOHOL

Meta-analysis

```
. metaan ES _SE if Target_Beh==2, dl forest label(StudyID)
```

DerSimonian-Laird random-effects method selected

Study		Effect	[95% Conf. Interval]		% Weight
-----+-----					
Burke 2008		-0.157	-0.410	0.096	2.84
Carey 2006_BMI		0.220	-0.420	0.861	0.58
Carey 2006_BMI+TLFB		0.028	-0.609	0.665	0.59
Carey 2006_EBMI		-0.056	-0.695	0.583	0.58
Carey 2006_EBMI+TLFB		-0.118	-0.755	0.519	0.59
Carey 2006_TLFB		-0.105	-0.739	0.530	0.59
Chang 2011		-0.055	-0.232	0.122	4.49
Curry 2003		0.203	-0.062	0.468	2.66
Daeppen 2007		-0.007	-0.181	0.166	4.58
Dent 2008_BI		-0.298	-0.699	0.102	1.36
Dent 2008_MI		-0.107	-0.516	0.301	1.32
Dermen 2011_ALC		0.457	-0.108	1.022	0.73
Dermen 2011_H&A		-0.037	-0.601	0.528	0.74
Emmen 2005		-0.186	-0.540	0.168	1.68
Feldman 2011		0.089	-0.286	0.464	1.53
Field 2009_BP		-0.025	-0.256	0.206	3.23
Field 2009_HP		0.143	-0.026	0.313	4.71
Field 2009_WP		0.037	-0.115	0.189	5.27
Fleming 2008		0.354	0.096	0.611	2.76
Fleming 2010		0.075	-0.050	0.199	6.23
Gilbert 2008		0.174	-0.149	0.497	1.95
Holloway 2007_SEE		0.483	-0.003	0.968	0.97
Holloway 2007_SHB		0.487	-0.001	0.975	0.96
Ingersoll 2005		0.149	-0.130	0.428	2.46
Juarez 2006 MF		0.108	-1.132	1.348	0.16

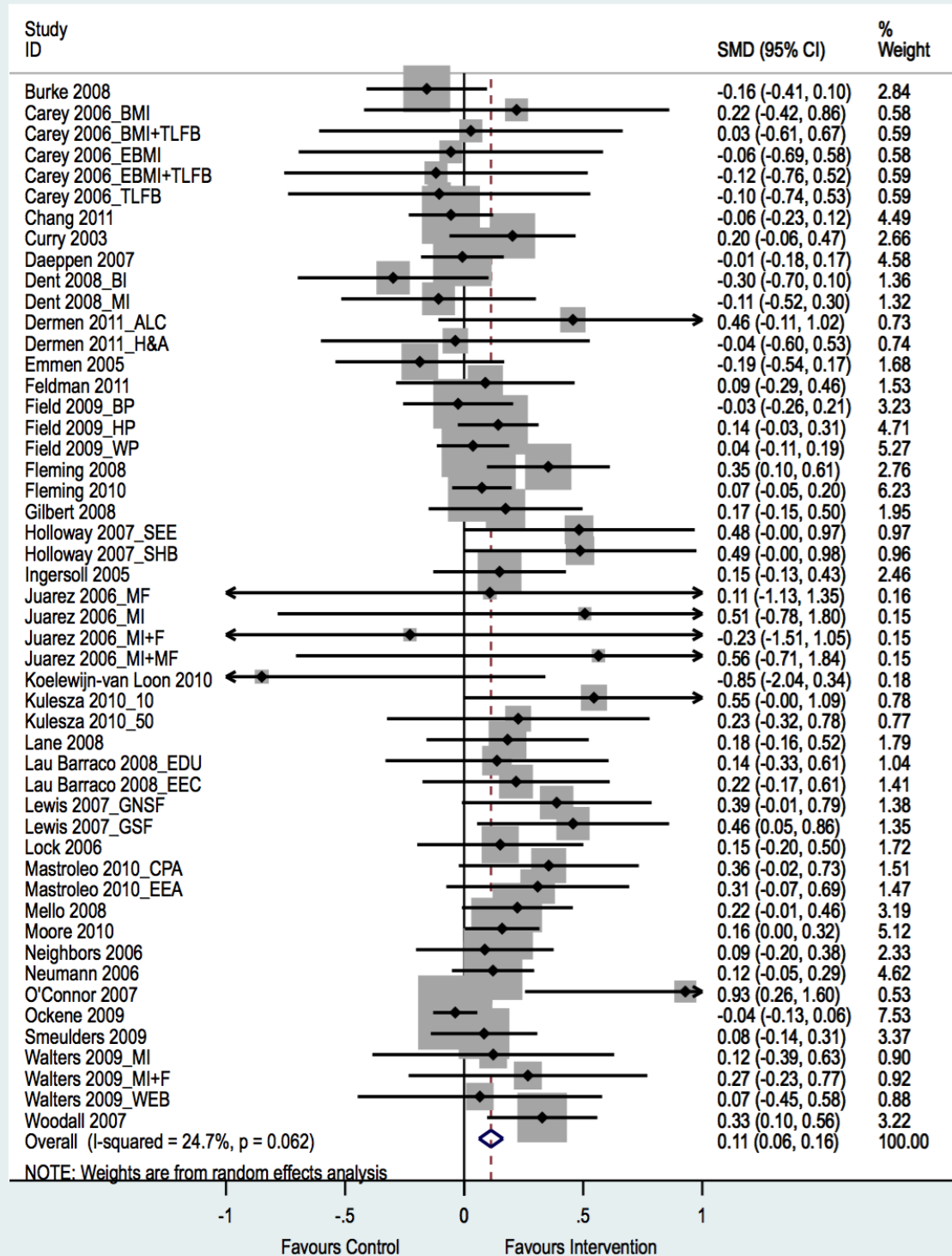
Juarez 2006_MI		0.507	-0.783	1.798	0.15
Juarez 2006_MI+F		-0.227	-1.507	1.052	0.15
Juarez 2006_MI+MF		0.565	-0.706	1.835	0.15
Koelewijn-van Loon 2		-0.850	-2.041	0.341	0.18
Kulesza 2010_10		0.545	-0.003	1.093	0.78
Kulesza 2010_50		0.227	-0.324	0.778	0.77
Lane 2008		0.183	-0.158	0.523	1.79
Lau Barraco 2008_EDU		0.138	-0.330	0.606	1.04
Lau Barraco 2008_EEC		0.218	-0.175	0.611	1.41
Lewis 2007_GNSF		0.389	-0.009	0.787	1.38
Lewis 2007_GSF		0.457	0.054	0.860	1.35
Lock 2006		0.152	-0.197	0.501	1.72
Mastroleo 2010_CPA		0.356	-0.022	0.733	1.51
Mastroleo 2010_EEA		0.309	-0.074	0.693	1.47
Mello 2008		0.224	-0.009	0.457	3.19
Moore 2010		0.160	0.003	0.316	5.12
Neighbors 2006		0.087	-0.202	0.376	2.33
Neumann 2006		0.121	-0.051	0.294	4.62
O'Connor 2007		0.929	0.256	1.601	0.53
Ockene 2009		-0.037	-0.130	0.055	7.53
Smeulders 2009		0.084	-0.140	0.307	3.37
Walters 2009_MI		0.122	-0.385	0.630	0.90
Walters 2009_MI+F		0.268	-0.233	0.769	0.92
Walters 2009_WEB		0.066	-0.447	0.579	0.88
Woodall 2007		0.328	0.097	0.559	3.22
-----+-----					
Overall effect (dl)		0.113	0.063	0.163	100.00

Heterogeneity chi-squared = 65.09 (d.f. = 49) p = 0.062

I-squared (variation in ES attributable to heterogeneity) = 24.7% (95% CI = 0 to 46.88)

Estimate of between-study variance Tau-squared = 0.0065

Test of ES=0 : z= 4.40 p = 0.000



Outliers

```
. metaninf ES _SE if Target_Beh==2, label(namevar=StudyID) random
```

Study omitted	Estimate	[95% Conf. Interval]
Koelewijn-van Loon 2010	.11347695	.06389877 .16305514
Dent 2008_BI	.11640519	.0671692 .16564117
Juarez 2006_MI+F	.11395603	.06321065 .1647014
Emmen 2005	.11704365	.0669619 .16712539
Burke 2008	.11879653	.06911338 .1684797
Carey 2006_EBBI+TLFB	.11472635	.06393276 .16551994
Dent 2008_MI	.11601906	.06524877 .16678935

Carey 2006_TLFB		.1146915	.06387058	.16551241
Carey 2006_EBMI		.11449936	.06359498	.16540374
Chang 2011		.12012845	.06916503	.17109187
Ockene 2009		.12203757	.07295205	.17112309
Dermen 2011_H&A		.11463998	.06368253	.16559741
Field 2009_BP		.11788164	.06646408	.1692992
Daepfen 2007		.11910229	.06726933	.17093524
Carey 2006_BMI+TLFB		.11411638	.06312444	.16510831
Field 2009_WP		.11826748	.06568625	.17084871
Walters 2009_WEB		.11407449	.06297256	.16517642
Fleming 2010		.11728875	.06394404	.17063347
Smeulders 2009		.11501689	.06301574	.16701806
Neighbors 2006		.11445925	.06284965	.16606887
Feldman 2011		.11410295	.06277747	.16542843
Juarez 2006_MF		.11359991	.06272794	.16447189
Neumann 2006		.11377352	.06132608	.16622096
Walters 2009_MI		.1135627	.06246023	.16466516
Lau Barraco 2008_EDU		.11337885	.06224332	.16451436
Field 2009_HP		.1125221	.06018378	.16486041
Ingersoll 2005		.11279964	.06124343	.16435584
Lock 2006		.11297222	.06164827	.16429618
Moore 2010		.11131344	.05901978	.16360711
Gilbert 2008		.11235463	.06102935	.16367991
Lane 2008		.11226471	.06100859	.16352083
Curry 2003		.11086984	.0595474	.16219229
Lau Barraco 2008_EEC		.11189704	.06084076	.16295333
Carey 2006_BMI		.11287906	.06195814	.16379997
Mello 2008		.10933191	.0581396	.16052423
Kulesza 2010_50		.11257905	.06163992	.16351818
Walters 2009_MI+F		.11186395	.06101255	.16271535
Mastroleo 2010_EEA		.10986803	.05926628	.16046977
Woodall 2007		.10345344	.05395615	.15295072
Fleming 2008		.10383891	.05446023	.15321757
Mastroleo 2010_CPA		.10860831	.05836193	.15885469
Lewis 2007_GNSF		.108272	.05821862	.15832537
Dermen 2011_ALC		.10993192	.0597667	.16009715
Lewis 2007_GSF		.10664728	.05720478	.15608978
Holloway 2007_SEE		.10822113	.05849459	.15794766
Holloway 2007_SHB		.10820048	.05849137	.1579096
Juarez 2006_MI		.11271039	.06205684	.16336392
Kulesza 2010_10		.10834689	.05875519	.1579386
Juarez 2006_MI+MF		.11250868	.06192583	.16309153
O'Connor 2007		.10473463	.05720742	.15226184

Combined		.11287057	.06258289	.16315826

No trials had point estimate outside the combined CI.

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 = 50 Root MSE = 1.098

-----+-----						
Std_Eff	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
slope	.0072195	.0395764	0.18	0.856	-.0723543	.0867932
bias	.7003978	.2872368	2.44	0.019	.1228695	1.277926

Test of H0: no small-study effects P = 0.019

. metatrim ES_SE if Target_Beh==2, reffect funnel

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

Meta-analysis

	Pooled	95% CI		Asymptotic		No. of
Method	Est	Lower	Upper	z_value	p_value	studies
-----+-----						
Fixed	0.088	0.050	0.127	4.536	0.000	50
Random	0.113	0.063	0.163	4.399	0.000	

Test for heterogeneity: Q= 65.088 on 49 degrees of freedom (p= 0.062)

Moment-based estimate of between studies variance = 0.007

Trimming estimator: Linear

Meta-analysis type: Random-effects model

iteration		estimate	Tn	# to trim	diff
-----+-----					
1		0.113	736	4	1275
2		0.100	770	5	68
3		0.095	784	6	28
4		0.090	799	7	30
5		0.083	822	7	46
6		0.083	822	7	0

Filled

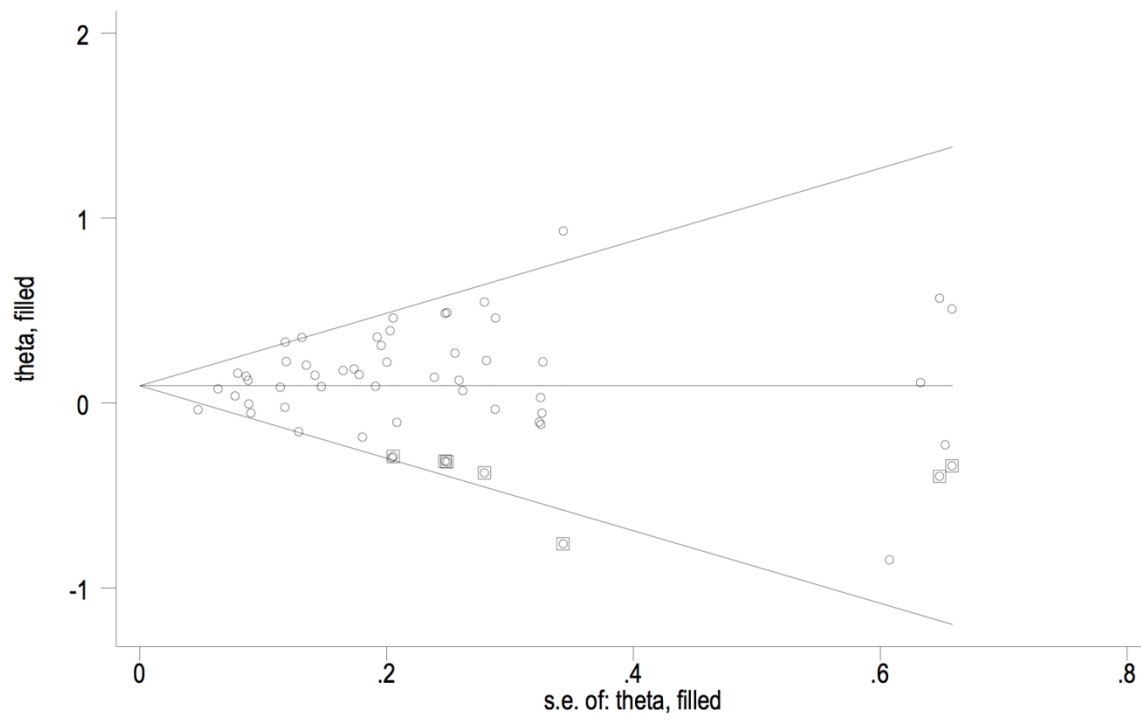
Meta-analysis

		Pooled	95% CI		Asymptotic		No. of
Method		Est	Lower	Upper	z_value	p_value	studies
-----+-----							
Fixed		0.075	0.037	0.112	3.887	0.000	57
Random		0.093	0.039	0.147	3.382	0.001	

Test for heterogeneity: Q= 83.265 on 56 degrees of freedom (p= 0.010)

Moment-based estimate of between studies variance = 0.011

Filled funnel plot with pseudo 95% confidence limits



Univariate analysis

Meta-regression of BCT Clusters

*Model Rev_ALC_U1a

```
. tabulate Rev_Cluster1_SS if Target_Beh==2
```

Cluster1:				
Social				
Support	-			
Controlling				
for				
comparator				
use		Freq.	Percent	Cum.
-----+-----				
0		10	20.00	20.00
1		40	80.00	100.00
-----+-----				
Total		50	100.00	

```
.  
. metareg ES Rev_Cluster1_SS if Target_Beh==2, wsse(_SE) knapphartung reml
```

Meta-regression Number of obs = 50

REML estimate of between-study variance tau2 = .007372

% residual variation due to heterogeneity I-squared_res = 25.62%

Proportion of between-study variance explained Adj R-squared = -10.89%

With Knapp-Hartung modification

ES		Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----						
Rev_Cluster1_SS		-.0234369	.0613589	-0.38	0.704	-.1468073 .0999335
_cons		.1321365	.0534681	2.47	0.017	.0246317 .2396412

```

.
. *Model Rev_ALC_U1b
.
. tabulate Rev_Cluster2_Reg          if Target_Beh==2

```

Cluster2:				
Regulation				
-				
Controlling				
for				
comparator				
use		Freq.	Percent	Cum.
-----+-----				
0		49	98.00	98.00
1		1	2.00	100.00
-----+-----				
Total		50	100.00	

```

.
.
. *Model Rev_ALC_U1c
.
. tabulate Rev_Cluster3_FM          if Target_Beh==2

```

Cluster3:				
Feedback &				
Monitoring				
-				
Controlling				
for				
comparator				
use		Freq.	Percent	Cum.
-----+-----				
0		15	30.00	30.00

1	35	70.00	100.00
---	----	-------	--------

-----+-----

Total	50	100.00	
-------	----	--------	--

.

```
. metareg ES Rev_Cluster3_FM if Target_Beh==2, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	50
-----------------	-----------------	----

REML estimate of between-study variance	tau2 =	.004765
---	--------	---------

% residual variation due to heterogeneity	I-squared_res =	15.85%
---	-----------------	--------

Proportion of between-study variance explained	Adj R-squared =	28.33%
--	-----------------	--------

With Knapp-Hartung modification

-----+-----

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
----	-------	-----------	---	------	----------------------

-----+-----

Rev_Cluster3_FM	.1096903	.0497763	2.20	0.032	.0096082 .2097723
-----------------	----------	----------	------	-------	-------------------

_cons	.0436481	.0385131	1.13	0.263	-.0337878 .1210839
-------	----------	----------	------	-------	--------------------

-----+-----

.

```
. *Model Rev_ALC_U1d
```

.

```
. tabulate Rev_Cluster4_Asc if Target_Beh==2
```

Cluster4: |

Association |

s - |

Controlling |

for |

comparator |

use	Freq.	Percent	Cum.
-----	-------	---------	------

-----+-----

0	50	100.00	100.00
---	----	--------	--------

-----+-----

Total		50	100.00
-------	--	----	--------

```
.
.
. *Model Rev_ALC_Ule
.
. tabulate Rev_Cluster5_RS          if Target_Beh==2
```

Cluster5:				
Repetition				
and				
Substitutio				
ns -				
Controlling				
for				
comparator				
use		Freq.	Percent	Cum.
-----+-----				
0		47	94.00	94.00
1		3	6.00	100.00
-----+-----				
Total		50	100.00	

```
.
. metareg ES Rev_Cluster5_RS          if Target_Beh==2, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	50
REML estimate of between-study variance	tau2	=	.006545
% residual variation due to heterogeneity	I-squared_res	=	24.84%
Proportion of between-study variance explained	Adj R-squared	=	1.54%
With Knapp-Hartung modification			

ES		Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----						

Rev_Cluster5_RS	.1092588	.1272303	0.86	0.395	-.1465549	.3650726
_cons	.108287	.0262472	4.13	0.000	.0555135	.1610605

```

.
. *Model Rev_ALC_U1f
.
. tabulate Rev_Cluster6_Ant          if Target_Beh==2

```

```

Cluster6: |
Antecedents |
    - |
Controlling |
    for |
comparator |
    use |      Freq.      Percent      Cum.
-----+-----
    0 |          48        96.00        96.00
    1 |           2         4.00       100.00
-----+-----
Total |          50       100.00

```

```

.
.
. *Model Rev_ALC_U1g
.
. tabulate Rev_Cluster7_SK          if Target_Beh==2

```

```

Cluster7: |
    Shaping |
Knowledge - |
Controlling |
    for |

```

```

comparator |

          use |      Freq.      Percent      Cum.
-----+-----
          0 |         45        90.00        90.00
          1 |          5        10.00       100.00
-----+-----

        Total |         50       100.00

.

. metareg ES  Rev_Cluster7_SK                if Target_Beh==2, wsse(_SE) knapphartung reml

Meta-regression                                Number of obs =         50
REML estimate of between-study variance          tau2              = .007253
% residual variation due to heterogeneity        I-squared_res        = 25.68%
Proportion of between-study variance explained  Adj R-squared        = -9.11%
With Knapp-Hartung modification

-----
          ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster7_SK |   .0053368   .0811808     0.07   0.948    - .1578882    .1685617
      _cons |   .1135201   .027842     4.08   0.000     .0575401    .1695001
-----

.

. *Model Rev_ALC_U1h

.

. tabulate  Rev_Cluster8_SB                if Target_Beh==2

Cluster8: |
Self-belief |
          - |
Controlling |
          for |
comparator |

```

use	Freq.	Percent	Cum.
0	45	90.00	90.00
1	5	10.00	100.00
Total	50	100.00	

```
.
. metareg ES Rev_Cluster8_SB if Target_Beh==2, wsse(_SE) knapphartung reml
```

```
Meta-regression           Number of obs =      50
REML estimate of between-study variance      tau2           = .004486
% residual variation due to heterogeneity     I-squared_res    = 17.99%
Proportion of between-study variance explained  Adj R-squared    = 32.52%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_Cluster8_SB	-.095505	.0579734	-1.65	0.106	-.2120683 .0210584
_cons	.130634	.0278139	4.70	0.000	.0747105 .1865576

```
.
. *Model Rev_ALC_U1i
.
. tabulate Rev_Cluster9_SC if Target_Beh==2
```

```
Cluster9: |
Scheduled |
Consequence |
s - |
Controlling |
for |
comparator |
```

use	Freq.	Percent	Cum.
-----+-----			
0	50	100.00	100.00
-----+-----			
Total	50	100.00	

```

.
.
. *Model Rev_ALC_U1j
.
. tabulate Rev_Cluster10_RT          if Target_Beh==2

```

Cluster10:			
Reward &			
Threat -			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
-----+-----			
0	50	100.00	100.00
-----+-----			
Total	50	100.00	

```

.
.
. *Model Rev_ALC_U1k
.
. tabulate Rev_Cluster11_GP          if Target_Beh==2

```

Cluster11:			
Goals &			
Planning -			
Controlling			

```

    for |
comparator |
    use |      Freq.      Percent      Cum.
-----+-----
    0 |      30      60.00      60.00
    1 |      20      40.00     100.00
-----+-----
Total |      50     100.00

```

```

.
. metareg ES Rev_Cluster11_GP if Target_Beh==2, wsse(_SE) knapphartung reml

```

```

Meta-regression                      Number of obs =      50
REML estimate of between-study variance      tau2          = .006427
% residual variation due to heterogeneity     I-squared_res  = 23.04%
Proportion of between-study variance explained  Adj R-squared  =  3.32%
With Knapp-Hartung modification

```

```

-----+-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster11_GP |   -.046326   .0512702    -0.90   0.371    -.1494116    .0567595
      _cons |   .1347061   .035318     3.81   0.000    .0636946    .2057176
-----+-----

```

```

.
. *Model Rev_ALC_U11
.
. tabulate Rev_Cluster12_CO if Target_Beh==2

```

```

Cluster12: |
Comparison |
of Outcomes |
      - |
Controlling |

```

```

    for |
comparator |

    use |      Freq.      Percent      Cum.
-----+-----
    0 |      37      74.00      74.00
    1 |      13      26.00     100.00
-----+-----
Total |      50     100.00

```

```

.
. metareg ES  Rev_Cluster12_CO    if Target_Beh==2, wsse(_SE) knapphartung reml

```

```

Meta-regression                                Number of obs =      50
REML estimate of between-study variance         tau2              = .007215
% residual variation due to heterogeneity       I-squared_res     = 26.08%
Proportion of between-study variance explained  Adj R-squared     = -8.53%
With Knapp-Hartung modification

```

```

-----+-----
    ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster12_CO |  -.0352775   .0610932    -0.58   0.566   - .1581136   .0875586
    _cons |   .1225854   .0299903     4.09   0.000    .062286   .1828849
-----+-----

```

```

.
. *Model Rev_ALC_U1m
.
. tabulate Rev_Cluster13_Id          if Target_Beh==2

```

```

Cluster13: |
Identity - |
Controlling |
    for |
comparator |

```

use	Freq.	Percent	Cum.
0	50	100.00	100.00
Total	50	100.00	

```
.
.
. *Model Rev_ALC_Uln
.
. tabulate Rev_Cluster14_NC          if Target_Beh==2
```

```
Cluster14: |
Natural |
Consequence |
s - |
Controlling |
for |
comparator |
```

use	Freq.	Percent	Cum.
0	20	40.00	40.00
1	30	60.00	100.00
Total	50	100.00	

```
.
. metareg ES Rev_Cluster14_NC      if Target_Beh==2, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	50
REML estimate of between-study variance	tau2	= .007398
% residual variation due to heterogeneity	I-squared_res	= 26.22%
Proportion of between-study variance explained	Adj R-squared	= -11.29%
With Knapp-Hartung modification		

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_Cluster14_NC	.01511	.0528633	0.29	0.776	-.0911788	.1213989
_cons	.1059367	.0395226	2.68	0.010	.0264711	.1854022

```
.
. *Model Rev_ALC_Ulo
.
. tabulate Rev_Cluster15_CB          if Target_Beh==2
```

Cluster15:			
Comparison			
of			
Behaviour -			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
-----+-----			
0	28	56.00	56.00
1	22	44.00	100.00
-----+-----			
Total	50	100.00	

```
.
. metareg ES Rev_Cluster15_CB      if Target_Beh==2, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	50
REML estimate of between-study variance	tau2	= .007502
% residual variation due to heterogeneity	I-squared_res	= 26.07%
Proportion of between-study variance explained	Adj R-squared	= -12.85%
With Knapp-Hartung modification		

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_Cluster15_CB	.0186735	.0551672	0.34	0.736	-.0922475	.1295945
_cons	.1080118	.0326405	3.31	0.002	.0423836	.1736399

```

.
. *Model Rev_ALC_Ulp
.
. tabulate Rev_Cluster16_CL          if Target_Beh==2

```

Cluster16:				
Covert				
Learning -				
Controlling				
for				
comparator				
use	Freq.	Percent	Cum.	
-----+-----				
0	50	100.00	100.00	
-----+-----				
Total	50	100.00		

Meta-regression of Intervention function

```
. *Model Rev_ALC_U2a
```

```
.
```

```
. tabulate Rev_iif1 if Target_Beh==2
```

Rev_iif1	Freq.	Percent	Cum.
-----+-----			
0	14	28.00	28.00
1	36	72.00	100.00
-----+-----			
Total	50	100.00	

```
.
```

```
. metareg ES Rev_iif1 if Target_Beh==2, wsse(_SE) knapphartung reml
```

```
Meta-regression                      Number of obs =      50
REML estimate of between-study variance      tau2          = .008746
% residual variation due to heterogeneity     I-squared_res   = 25.94%
Proportion of between-study variance explained  Adj R-squared   = -31.57%
With Knapp-Hartung modification
```

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_iif1	.0828708	.0563139	1.47	0.148	-.0303558	.1960974
_cons	.0636501	.0449253	1.42	0.163	-.0266783	.1539786

```
.
```

```
. *Model Rev_ALC_U2b
```

```
.
```

```
. tabulate Rev_iif2 if Target_Beh==2
```

Rev_iif2	Freq.	Percent	Cum.
-----+-----			
0	29	58.00	58.00

1	21	42.00	100.00
-----+-----			
Total	50	100.00	

```
.
. metareg ES Rev_iif2 if Target_Beh==2, wsse(_SE) knapphartung reml
```

```
Meta-regression                      Number of obs =      50
REML estimate of between-study variance      tau2          = .005733
% residual variation due to heterogeneity     I-squared_res  = 21.98%
Proportion of between-study variance explained  Adj R-squared  = 13.75%
With Knapp-Hartung modification
```

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_iif2	-.0378697	.0512438	-0.74	0.463	-.1409022	.0651629
_cons	.1276279	.0335434	3.80	0.000	.0601844	.1950714

```
.
. *Model Rev_ALC_U2c
.
. tabulate Rev_iif3 if Target_Beh==2
```

Rev_iif3	Freq.	Percent	Cum.
-----+-----			
0	50	100.00	100.00
-----+-----			
Total	50	100.00	

```
.
.
. *Model Rev_ALC_U2d
.
```

```
. tabulate Rev_iif4 if Target_Beh==2
```

Rev_iif4	Freq.	Percent	Cum.
0	49	98.00	98.00
1	1	2.00	100.00
Total	50	100.00	

```
.
.
. *Model Rev_ALC_U2e
```

```
. tabulate Rev_iif5 if Target_Beh==2
```

Rev_iif5	Freq.	Percent	Cum.
0	45	90.00	90.00
1	5	10.00	100.00
Total	50	100.00	

```
. metareg ES Rev_iif5 if Target_Beh==2, wsse(_SE) knapphartung reml
```

```
Meta-regression      Number of obs =      50
REML estimate of between-study variance      tau2      = .007239
% residual variation due to heterogeneity      I-squared_res = 25.30%
Proportion of between-study variance explained      Adj R-squared = -8.90%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_iif5	-.0957336	.0871573	-1.10	0.278	-.2709751 .0795079

```
_cons | .1236959 .0275581 4.49 0.000 .0682867 .1791052
```

```
.
. *Model Rev_ALC_U2f
.
. tabulate Rev_iif6 if Target_Beh==2
```

Rev_iif6	Freq.	Percent	Cum.
0	50	100.00	100.00
Total	50	100.00	

```
.
.
. *Model Rev_ALC_U2g
.
. tabulate Rev_iif7 if Target_Beh==2
```

Rev_iif7	Freq.	Percent	Cum.
0	50	100.00	100.00
Total	50	100.00	

```
.
.
. *Model Rev_ALC_U2h
.
. tabulate Rev_iif8 if Target_Beh==2
```

Rev_iif8	Freq.	Percent	Cum.
----------	-------	---------	------

0	50	100.00	100.00
---	----	--------	--------

-----+-----

Total	50	100.00	
-------	----	--------	--

.

.

. *Model Rev_ALC_U2i

.

. tabulate Rev_iif9 if Target_Beh==2

Rev_iif9	Freq.	Percent	Cum.
----------	-------	---------	------

-----+-----

0	9	18.00	18.00
---	---	-------	-------

1	41	82.00	100.00
---	----	-------	--------

-----+-----

Total	50	100.00	
-------	----	--------	--

.

. metareg ES Rev_iif9 if Target_Beh==2, wsse(_SE) knapphartung reml

Meta-regression	Number of obs =	50
-----------------	-----------------	----

REML estimate of between-study variance	tau2 =	.007448
---	--------	---------

% residual variation due to heterogeneity	I-squared_res =	26.06%
---	-----------------	--------

Proportion of between-study variance explained	Adj R-squared =	-12.04%
--	-----------------	---------

With Knapp-Hartung modification

-----+-----

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
----	-------	-----------	---	------	----------------------

-----+-----

Rev_iif9	.0011297	.0619745	0.02	0.986	-.1234783 .1257377
----------	----------	----------	------	-------	--------------------

_cons	.1135989	.0542032	2.10	0.041	.0046161 .2225818
-------	----------	----------	------	-------	-------------------

-----+-----

.

.

Meta-regression of Theory-basedness

```
. *Model ALC_U3
```

```
. tabulate itb                                if Target_Beh==2
```

ITB	Freq.	Percent	Cum.
-----+-----			
No	44	88.00	88.00
Yes	6	12.00	100.00
-----+-----			
Total	50	100.00	

```
. metareg ES itb                                if Target_Beh==2, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      50
REML estimate of between-study variance         tau2              =   .00702
% residual variation due to heterogeneity        I-squared_res    =  25.60%
Proportion of between-study variance explained  Adj R-squared    =  -5.61%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
itb	.0360844	.0811006	0.44	0.658	-.1269793	.199148
cons	.1095643	.0276588	3.96	0.000	.0539525	.1651762
-----+-----						

SMOKING

Meta-analysis

```
. metan ES _SE if Target_Beh==3, label(namevar=StudyID) sortby(StudyID) random effect(SMD)
astext(50) textsize(230) force xlabel(-1, -0.5, 0, 0.5, 1) favours (Favours Control # Favours
Intervention)
```

Study		ES	[95% Conf. Interval]		% Weight
-----+-----					
An 2006		0.691	0.380	1.002	1.72
Anthonisen 2005		0.871	0.755	0.987	2.36
Armitage 2008		1.522	0.394	2.650	0.36
Azodi 2009		0.505	-0.056	1.067	1.00
Baker 2006		0.917	-0.647	2.481	0.20
Bernstein 2011		0.145	-0.212	0.501	1.56
Bock 2008		0.099	-0.216	0.414	1.71
Borrelli 2005		0.435	-0.491	1.361	0.49
Carpenter 2004_MA+NR		1.015	0.502	1.528	1.11
Carpenter 2004_SR+NR		0.829	0.306	1.353	1.09
Chouinard 2005_IC		0.442	-0.316	1.199	0.67
Chouinard 2005_IC+FU		0.442	-0.316	1.199	0.67
Dornelas 2006		0.528	-0.402	1.458	0.49
El-Mohandes 2011		0.440	0.120	0.761	1.69
Free 2011		0.465	0.351	0.579	2.37
Froelicher 2004		-0.000	-0.294	0.294	1.78
Giannuzzi 2008		0.162	0.022	0.303	2.30
Glasgow 2009		0.235	-0.302	0.772	1.06
Gordon 2010a_3As		0.413	-0.260	1.085	0.80
Gordon 2010a_5As		0.463	-0.203	1.129	0.81
Gordon 2010b		0.585	0.319	0.851	1.88
Groeneveld 2011		0.123	-0.259	0.505	1.48
Hall 2009_ECBT		0.411	-0.007	0.829	1.37
Hall 2009_ENRT+CBT		0.192	-0.224	0.607	1.38
Harting 2006		0.310	0.013	0.607	1.77
Hilberink 2011		0.459	-0.064	0.982	1.09
Hovell 2009		0.260	-0.061	0.582	1.68

Hyman 2007_Seq		0.325	-0.333	0.983	0.82
Hyman 2007_Sim		0.449	-0.201	1.099	0.83
Joseph 2008		0.013	-0.549	0.575	1.00
Joseph 2011		0.305	0.043	0.568	1.89
Katz 2004		0.186	-0.129	0.500	1.71
Koelewijn-van Loon 2		-0.631	-1.582	0.320	0.47
Kotz 2009_CC+Nort		0.388	-0.414	1.190	0.62
Kotz 2009_HE+Nort		0.409	-0.391	1.209	0.62
Lacasse 2008		-0.096	-0.514	0.322	1.37
Lawrence 2003_SHM		0.464	-0.493	1.421	0.47
Lawrence 2003_SHM+IC		0.365	-0.613	1.344	0.45
Malchodi 2003		0.080	-0.354	0.515	1.32
McBride 2004_PAI		0.220	-0.261	0.700	1.20
McBride 2004_WOI		0.193	-0.291	0.676	1.19
McClure 2005		0.037	-0.396	0.471	1.33
Mohiuddin 2007		0.886	0.449	1.323	1.31
Molyneux 2003_Cou		-0.321	-1.193	0.550	0.54
Molyneux 2003_Cou+NR		0.223	-0.475	0.921	0.76
Muniz 2010		0.123	-0.118	0.364	1.97
Neuner 2009		0.149	-0.053	0.350	2.11
Nollen 2007		0.147	-0.117	0.410	1.89
Ondersma 2012_CD-5As		0.960	-0.285	2.204	0.30
Ondersma 2012_CD-5As		0.568	-0.636	1.771	0.32
Ondersma 2012_CM-Lit		-0.382	-1.819	1.055	0.23
Pbert 2004		0.575	0.228	0.921	1.60
Pisinger 2009_GC		0.145	-0.930	1.219	0.39
Pisinger 2009_IC		-0.042	-1.190	1.106	0.34
Rabius 2004		0.310	0.197	0.423	2.37
Ratner 2004		-0.046	-0.413	0.321	1.53
Reid 2008		0.033	-0.635	0.702	0.80
Rigotti 2006		0.209	-0.336	0.754	1.04
Rodriguez-Aralejo 20		0.525	0.062	0.987	1.24
Ruger 2008_CS		-0.136	-0.716	0.444	0.96
Ruger 2008_RQ		0.683	-0.032	1.398	0.73

Sallit 2009		0.366	0.015	0.717	1.58
Schumann 2008		-0.023	-0.246	0.201	2.03
Segan 2011		0.022	-0.185	0.229	2.09
Simmons 2007		-0.147	-0.725	0.430	0.97
Smeulders 2009		-0.010	-0.234	0.213	2.03
Stotts 2009_MI+USF		0.338	-0.178	0.855	1.11
Stotts 2009_USF		0.169	-0.362	0.699	1.07
Sutton 2007		0.037	-0.126	0.201	2.23
Swartz 2006		0.539	0.092	0.987	1.28
Tappin 2005		0.027	-0.343	0.397	1.52
Thomsen 2010		0.240	-0.428	0.908	0.80
Toll 2010		0.067	-0.062	0.196	2.33
Unrod 2007		0.315	-0.035	0.664	1.59
VHSG		0.528	0.029	1.028	1.15
Vale 2003		0.172	-0.134	0.477	1.74
Vidrine 2012		0.795	0.419	1.171	1.50
Willemsen 2006		-0.007	-0.317	0.304	1.72
Wood 2008		0.239	0.053	0.426	2.16
de Vries 2006		1.010	0.082	1.938	0.49

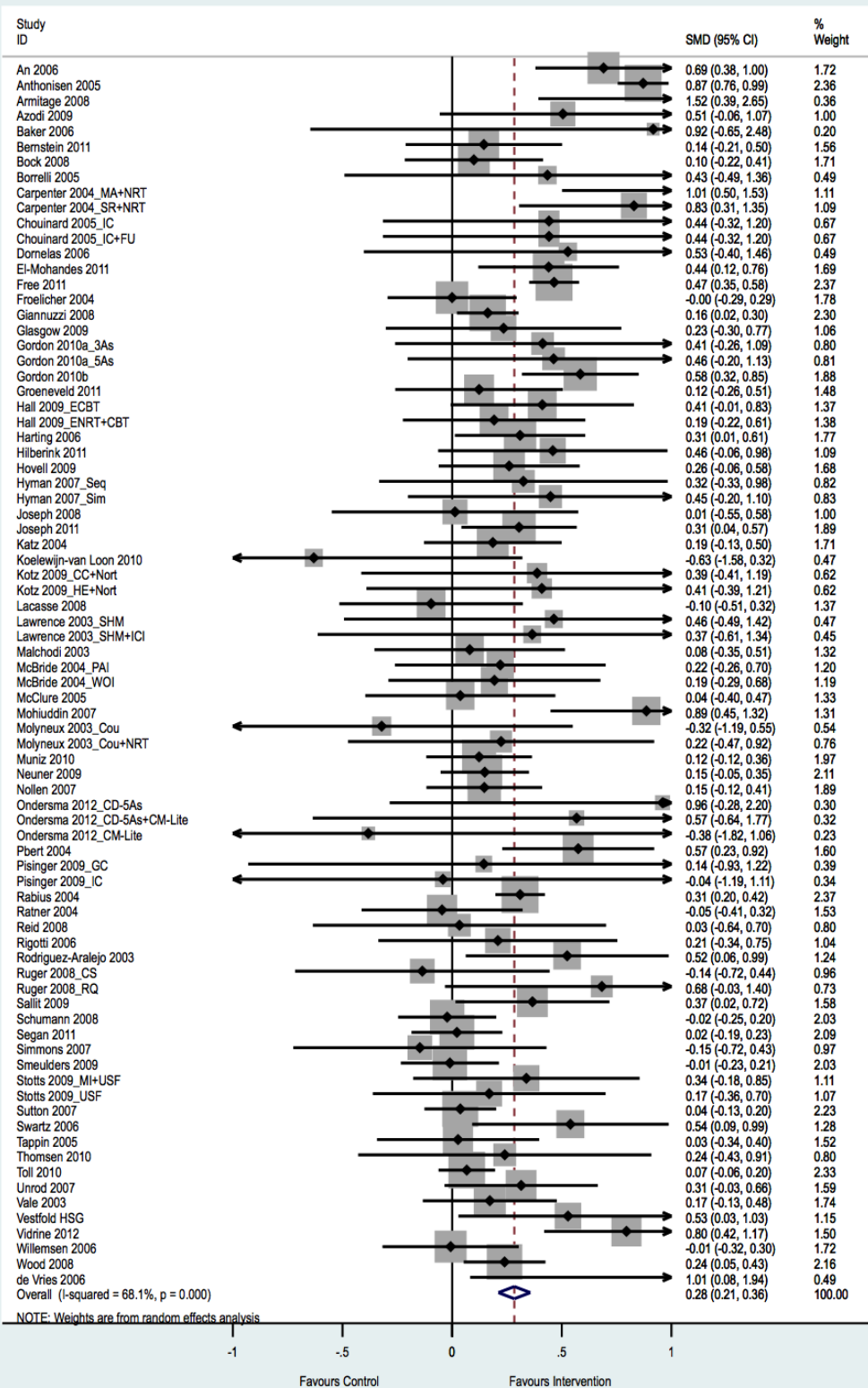
-----+-----					
D+L pooled ES		0.284	0.211	0.356	100.00
-----+-----					

Heterogeneity chi-squared = 247.38 (d.f. = 79) p = 0.000

I-squared (variation in ES attributable to heterogeneity) = 68.1% (95% CI = 59.19 to 74.23)

Estimate of between-study variance Tau-squared = 0.0545

Test of ES=0 : z= 7.66 p = 0.000

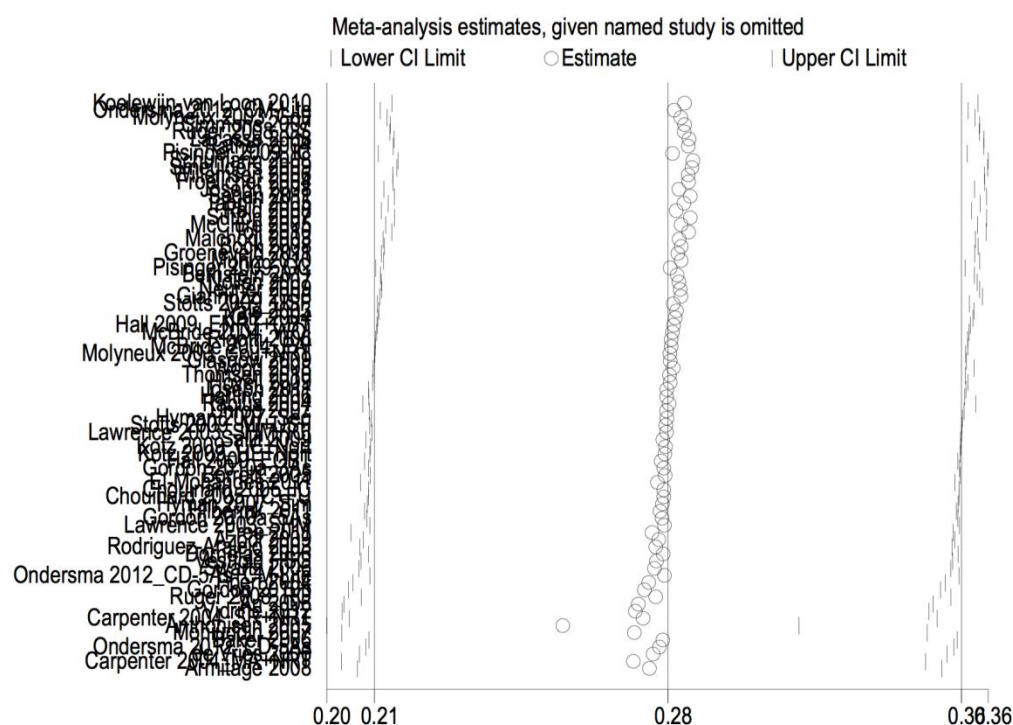


Outliers

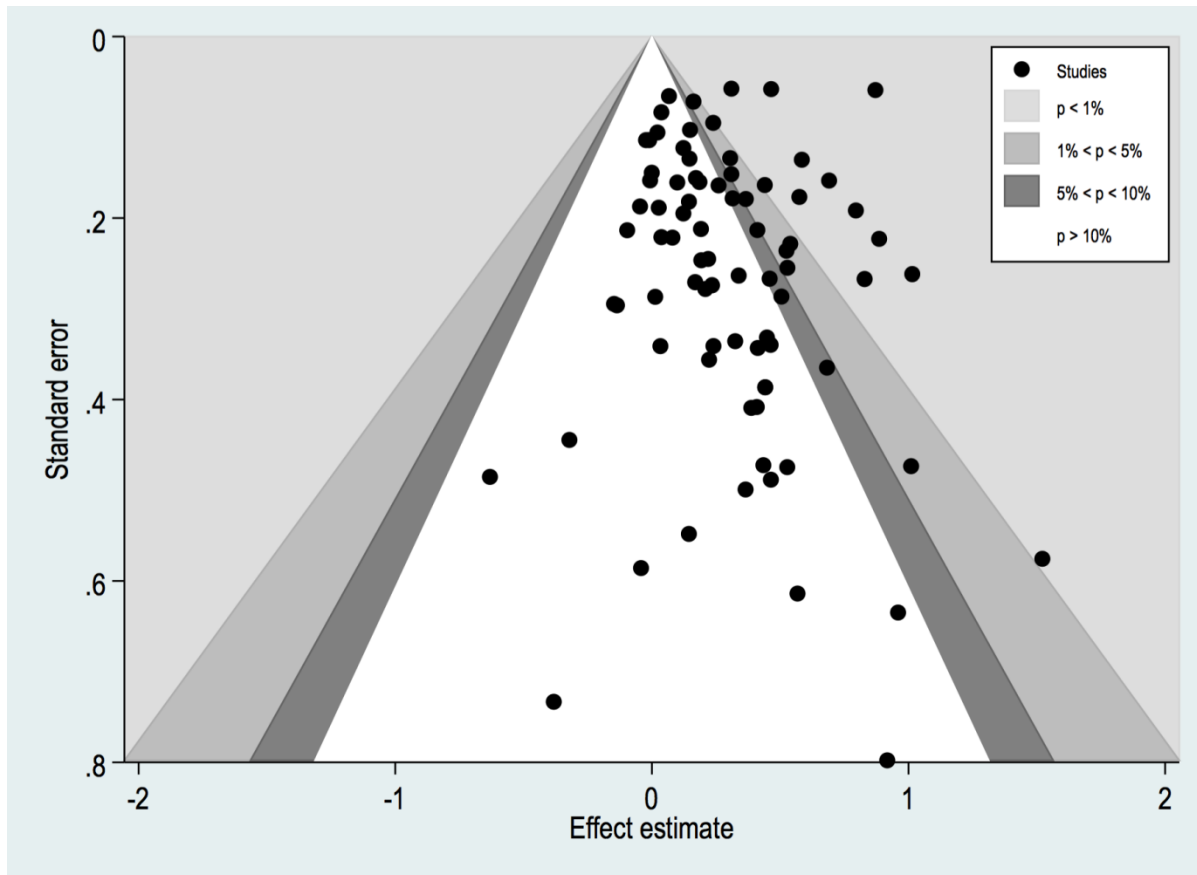
Study omitted	Estimate	[95% Conf. Interval]
Koelewijn-van Loon 2010	.28790602	.21549831 .36031371
Ondersma 2012_CM-Lite	.28527713	.21260208 .35795221
Molyneux 2003_Cou	.28698578	.21431616 .35965544
Simmons 2007	.28790295	.21507433 .36073157
Ruger 2008_CS	.28777319	.21492933 .36061707
Lacasse 2008	.28892449	.2160214 .36182755
Ratner 2004	.28879893	.21578334 .3618145
Pisinger 2009_IC	.28489083	.21209724 .3576844
Schumann 2008	.28993225	.21700305 .36286142
Smeulders 2009	.2897073	.21669564 .36271897
Willemsen 2006	.28878102	.21565478 .36190724
Froelicher 2004	.2888369	.2156895 .36198431
Joseph 2008	.28649718	.21347816 .3595162
Segan 2011	.28925118	.21606168 .36244068
Tappin 2005	.28771377	.21452762 .36089993
Reid 2008	.28579274	.21282332 .35876215
Sutton 2007	.28927666	.21607798 .36247531
McClure 2005	.28707126	.21392442 .36021808
Toll 2010	.28889361	.21547121 .36231601
Malchodi 2003	.28650999	.21330795 .35971203
Bock 2008	.28700489	.21359903 .36041078
Groeneveld 2011	.28622529	.21289837 .3595522
Muniz 2010	.28708178	.21344067 .3607229
Pisinger 2009_GC	.28431812	.21147212 .35716408
Bernstein 2011	.28603497	.21263529 .35943463
Nollen 2007	.28650093	.21286808 .36013377
Neuner 2009	.28682762	.21293691 .36071834
Giannuzzi 2008	.28696162	.21248785 .36143538
Stotts 2009_USF	.28504762	.21189053 .35820469
Vale 2003	.28583804	.21228375 .35939232
Katz 2004	.28556955	.21202113 .35911798
Hall 2009_ENRT+CBT	.28511447	.21178296 .35844594
McBride 2004_WOI	.28490692	.21167983 .35813403
Rigotti 2006	.28459525	.21143934 .35775119
McBride 2004_PAI	.28459272	.21135075 .35783467
Molyneux 2003_Cou+NRT	.28425473	.21123381 .35727564
Glasgow 2009	.28433505	.21116298 .35750711
Wood 2008	.28505719	.21079186 .35932252
Thomsen 2010	.28414914	.21110368 .35719457
Hovell 2009	.28428596	.21070169 .35787022
Joseph 2011	.28352454	.20971745 .3573316
Harting 2006	.2834326	.20976351 .35710168
Rabius 2004	.28403804	.20826307 .35981303
Unrod 2007	.2833651	.20985399 .35687616
Hyman 2007_Seq	.28345639	.2103997 .35651305
Stotts 2009_MI+USF	.2831997	.20999767 .35640174
Lawrence 2003_SHM+ICI	.28341088	.21052803 .35629374
Sallit 2009	.28252995	.20904131 .3560186
Kotz 2009_CC+Nort	.28313908	.21018441 .35609373
Kotz 2009_HE+Nort	.28300157	.21004936 .35595375
Hall 2009_ECBT	.28204787	.20872599 .35536975
Gordon 2010a_3As	.28275281	.20972218 .35578346
Borrelli 2005	.28302893	.21013579 .35592207
El-Mohandes 2011	.28116089	.20767091 .35465086
Chouinard 2005_IC	.28271127	.20974317 .35567939
Chouinard 2005_IC+FU	.28271127	.20974317 .35567939
Hyman 2007_Sim	.28239873	.20936237 .3554351
Hilberink 2011	.28185672	.20870957 .35500389
Gordon 2010a_5As	.28232425	.20930484 .3553437

Lawrence 2003_SHM		.28292802	.21005081	.35580525
Free 2011		.27979857	.20534651	.35425064
Azodi 2009		.2815319	.20845202	.35461175
Rodriguez-Aralejo 2003		.28074014	.20758221	.35389808
Dornelas 2006		.28256762	.20969617	.35543904
Vestfold HSG		.28093225	.2078148	.35404968
Swartz 2006		.28044111	.20728514	.3535971
Ondersma 2012_CD-5As+CM-Lite		.28286144	.2100611	.35566181
Pbert 2004		.27900663	.20582011	.35219318
Gordon 2010b		.27792534	.20474662	.35110408
Ruger 2008_RQ		.28079662	.20793118	.35366204
An 2006		.27642381	.20363873	.34920889
Vidrine 2012		.27568981	.20315783	.34822178
Carpenter 2004_SR+NRT		.27761143	.20494902	.35027385
Anthonisen 2005		.25772455	.19937061	.31607848
Mohiuddin 2007		.27545309	.2030713	.34783489
Baker 2006		.28248304	.20978869	.35517737
Ondersma 2012_CD-5As		.28169063	.20901677	.35436451
de Vries 2006		.28008237	.20748083	.35268393
Carpenter 2004_MA+NRT		.27522409	.20303012	.34741804
Armitage 2008		.27916875	.20692916	.35140833
-----+-----				
Combined		.28371844	.21116025	.35627663

No trials had point estimate outside the combined CI.



Publication bias



Egger's test for small-study effects:

Regress standard normal deviate of intervention

effect estimate against its standard error

Number of studies = 80 Root MSE = 1.779

	Std_Eff	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
slope		.3127805	.0549599	5.69	0.000	.2033637 .4221973
bias		-.1220548	.3492682	-0.35	0.728	-.8173943 .5732847

Test of H0: no small-study effects P = 0.728

```
. metatrim ES SE if Target Beh==3, reffect funnel
```

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

Meta-analysis

	Pooled	95% CI		Asymptotic		No. of
Method	Est	Lower	Upper	z_value	p_value	studies
-----+-----						
Fixed	0.297	0.263	0.331	16.881	0.000	80
Random	0.284	0.211	0.356	7.664	0.000	

Test for heterogeneity: Q= 247.376 on 79 degrees of freedom (p= 0.000)

Moment-based estimate of between studies variance = 0.055

Trimming estimator: Linear

Meta-analysis type: Random-effects model

iteration	estimate	Tn	# to trim	diff
-----+-----				
1	0.284	1670	1	3240
2	0.279	1704	2	68
3	0.271	1760	4	112
4	0.265	1799	5	78
5	0.264	1810	5	22
6	0.264	1810	5	0

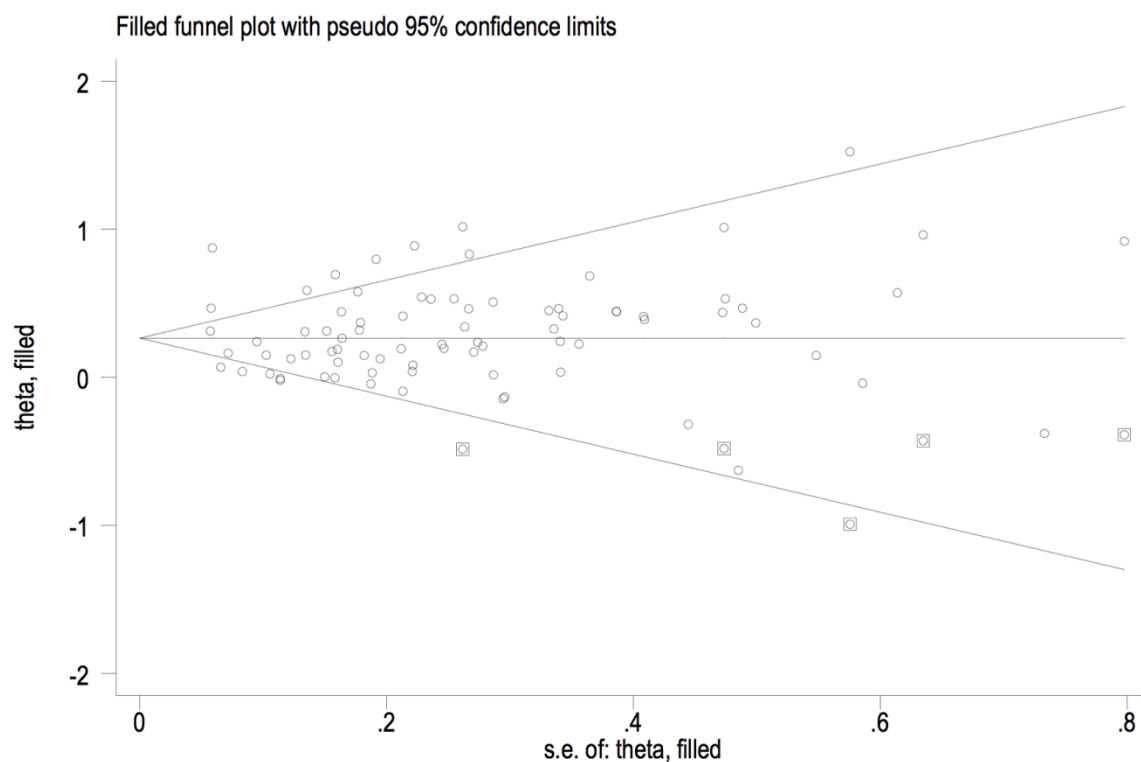
Filled

Meta-analysis

	Pooled	95% CI		Asymptotic		No. of
Method	Est	Lower	Upper	z_value	p_value	studies
-----+-----						
Fixed	0.290	0.256	0.325	16.569	0.000	85
Random	0.264	0.191	0.337	7.067	0.000	

Test for heterogeneity: Q= 266.013 on 84 degrees of freedom (p= 0.000)

Moment-based estimate of between studies variance = 0.058



Univariate analysis

Meta-regression of BCT Clusters

```
. *Model Rev_SMK_U1a
.
. tabulate Rev_Cluster1_SS          if Target_Beh==3
```

Cluster1:				
Social				
Support	-			
Controlling				
for				
comparator				
use		Freq.	Percent	Cum.
-----+-----				
0		29	36.25	36.25
1		51	63.75	100.00
-----+-----				
Total		80	100.00	

```
.
. metareg ES Rev_Cluster1_SS if Target_Beh==3, wsse(_SE) knapphartung reml
```

```
Meta-regression           Number of obs   =      80
REML estimate of between-study variance      tau2           =   .03503
% residual variation due to heterogeneity     I-squared_res    =  62.82%
Proportion of between-study variance explained  Adj R-squared    =  12.17%
With Knapp-Hartung modification
```

```
-----+-----
          ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster1_SS |   .1421851   .067179     2.12   0.037     .008442     .2759281
      _cons |   .1915088   .0530146     3.61   0.001     .0859648     .2970528
-----+-----
```

```
.
. *Model Rev_SMK_U1b
.
. tabulate Rev_Cluster2_Reg if Target_Beh==3
```

```
Cluster2: |
Regulation |
      - |
Controlling |
      for |
comparator |
      use |      Freq.      Percent      Cum.
-----+-----
          0 |          42       52.50       52.50
          1 |          38       47.50      100.00
-----+-----
        Total |          80      100.00
```

```
.
. metareg ES Rev_Cluster2_Reg if Target_Beh==3, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      80
REML estimate of between-study variance          tau2              =   .03744
% residual variation due to heterogeneity         I-squared_res     =  62.29%
Proportion of between-study variance explained   Adj R-squared     =   6.12%
With Knapp-Hartung modification
```

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_Cluster2_Reg	.1026321	.0664023	1.55	0.126	-.0295647	.2348289
_cons	.2315725	.0458801	5.05	0.000	.1402323	.3229127
-----+-----						

```
.
. *Model Rev_SMK_U1c
.
. tabulate Rev_Cluster3_FM if Target_Beh==3
```

Cluster3:			
Feedback &			
Monitoring			
-			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
-----+-----			
0	64	80.00	80.00
1	16	20.00	100.00
-----+-----			
Total	80	100.00	

```
.
. metareg ES Rev_Cluster3_FM if Target_Beh==3, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      80
REML estimate of between-study variance         tau2              =   .04101
% residual variation due to heterogeneity       I-squared_res     =  68.32%
Proportion of between-study variance explained  Adj R-squared     =  -2.84%
With Knapp-Hartung modification
```

```
-----
              ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster3_FM |   -.040883   .0877276    -0.47   0.642    -.2155353    .1337692
      _cons |   .2888415   .0376873     7.66   0.000     .2138119    .3638711
-----
```

```
.
. *Model Rev_SMK_Uld
.
. tabulate Rev_Cluster4_Asc if Target_Beh==3
```

```
Cluster4: |
Association |
          s - |
Controlling |
          for |
comparator |
          use |      Freq.      Percent      Cum.
-----+-----
          0 |          80      100.00      100.00
-----+-----
Total |          80      100.00
```

```
.
.
```

```

. *Model Rev_SMK_Ule
.
. tabulate Rev_Cluster5_RS          if Target_Beh==3

Cluster5: |
Repetition |
and |
Substitutio |
ns - |
Controlling |
for |
comparator |
use |      Freq.      Percent      Cum.
-----+-----
0 |          69      86.25      86.25
1 |          11      13.75     100.00
-----+-----
Total |          80     100.00

.
. metareg ES Rev_Cluster5_RS          if Target_Beh==3, wsse(_SE) knapphartung reml

Meta-regression                      Number of obs =      80
REML estimate of between-study variance      tau2          =   .04098
% residual variation due to heterogeneity      I-squared_res    =  68.44%
Proportion of between-study variance explained      Adj R-squared    =  -2.76%
With Knapp-Hartung modification

-----+-----
ES |      Coef.   Std. Err.      t    P>|t|    [95% Conf. Interval]
-----+-----
Rev_Cluster5_RS |   .0058622   .0866988    0.07   0.946   - .1667418   .1784662
   _cons |   .2801747   .0378088    7.41   0.000    .2049031   .3554463
-----+-----

```

```

.
. *Model Rev_SMK_U1f
.
. tabulate Rev_Cluster6_Ant          if Target_Beh==3

Cluster6: |
Antecedents |
- |
Controlling |
for |
comparator |
use |      Freq.      Percent      Cum.
-----+-----
0 |          57       71.25       71.25
1 |          23       28.75      100.00
-----+-----
Total |          80      100.00

.

. metareg ES Rev_Cluster6_Ant    if Target_Beh==3, wsse(_SE) knapphartung reml

Meta-regression                                Number of obs =      80
REML estimate of between-study variance        tau2              =   .04005
% residual variation due to heterogeneity      I-squared_res     =  64.85%
Proportion of between-study variance explained Adj R-squared   = -0.43%
With Knapp-Hartung modification

-----
ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster6_Ant |   .037381   .071746     0.52   0.604   - .1054542   .1802163
   _cons |   .2686712 .0413766     6.49   0.000   .1862968   .3510457
-----

```

```

. *Model Rev_SMK_U1g
.
. tabulate Rev_Cluster7_SK          if Target_Beh==3

Cluster7: |
    Shaping |
Knowledge - |
Controlling |
    for |
comparator |
    use |      Freq.      Percent      Cum.
-----+-----
      0 |         68       85.00       85.00
      1 |         12       15.00      100.00
-----+-----
    Total |         80      100.00

.

. metareg ES Rev_Cluster7_SK          if Target_Beh==3, wsse(_SE) knapphartung reml

Meta-regression                               Number of obs =      80
REML estimate of between-study variance        tau2              =   .04103
% residual variation due to heterogeneity      I-squared_res      =  68.17%
Proportion of between-study variance explained Adj R-squared  = -2.89%
With Knapp-Hartung modification

-----+-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster7_SK |   .0309018   .092718    0.33   0.740   - .1536855   .2154892
      _cons |   .2763395   .0371495    7.44   0.000    .2023805   .3502985
-----+-----

.

. *Model Rev_SMK_U1h

```

```

.
. tabulate Rev_Cluster8_SB          if Target_Beh==3

Cluster8: |
Self-belief |
- |
Controlling |
for |
comparator |
use |      Freq.      Percent      Cum.
-----+-----
0 |          77       96.25       96.25
1 |           3        3.75      100.00
-----+-----
Total |          80      100.00

.

. metareg ES Rev_Cluster8_SB          if Target_Beh==3, wsse(_SE) knapphartung reml

Meta-regression                      Number of obs =          80
REML estimate of between-study variance      tau2           =    .04108
% residual variation due to heterogeneity     I-squared_res    =   68.09%
Proportion of between-study variance explained  Adj R-squared    =   -3.02%
With Knapp-Hartung modification

-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster8_SB |    .037205   .1295541     0.29   0.775    - .2207173    .2951274
      _cons |    .2785332   .0353958     7.87   0.000     .2080657    .3490008
-----

.

. *Model Rev_SMK_U1i
.

```

```
. tabulate Rev_Cluster9_SC if Target_Beh==3
```

Cluster9:				
Scheduled				
Consequence				
s -				
Controlling				
for				
comparator				
use		Freq.	Percent	Cum.
-----+-----				
0		79	98.75	98.75
1		1	1.25	100.00
-----+-----				
Total		80	100.00	

```
.
.
. *Model Rev_SMK_U1j
.
```

```
. tabulate Rev_Cluster10_RT if Target_Beh==3
```

Cluster10:				
Reward &				
Threat -				
Controlling				
for				
comparator				
use		Freq.	Percent	Cum.
-----+-----				
0		77	96.25	96.25
1		3	3.75	100.00
-----+-----				
Total		80	100.00	

```
.
. metareg ES Rev_Cluster10_RT if Target_Beh==3, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      80
REML estimate of between-study variance          tau2              =   .04099
% residual variation due to heterogeneity         I-squared_res     =  68.43%
Proportion of between-study variance explained    Adj R-squared     = -2.78%
With Knapp-Hartung modification
```

```
-----
              ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster10_RT |   -.0822554   .1417148    -0.58   0.563    - .364388    .1998771
      _cons |    .2863436   .0351219     8.15   0.000     .2164212    .356266
-----
```

```
.
. *Model Rev_SMK_U1k
.
. tabulate Rev_Cluster11_GP if Target_Beh==3
```

```
Cluster11: |
  Goals & |
Planning - |
Controlling |
  for |
comparator |
  use |      Freq.      Percent      Cum.
-----+-----
      0 |         30        37.50        37.50
      1 |         50        62.50       100.00
-----+-----
Total |         80       100.00
```

```
.
. metareg ES Rev_Cluster11_GP if Target_Beh==3, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      80
REML estimate of between-study variance         tau2              =   .03884
% residual variation due to heterogeneity       I-squared_res    =  67.20%
Proportion of between-study variance explained  Adj R-squared    =   2.62%
With Knapp-Hartung modification
```

```
-----+-----
              ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster11_GP |   -.0716221   .0693257    -1.03   0.305    - .2096389    .0663946
      _cons |    .325829   .0549335     5.93   0.000     .2164648    .4351932
-----+-----
```

```
.
. *Model Rev_SMK_U11
.
. tabulate Rev_Cluster12_CO if Target_Beh==3
```

```
Cluster12: |
Comparison |
of Outcomes |
      - |
Controlling |
      for |
comparator |
      use |      Freq.      Percent      Cum.
-----+-----
      0 |          58       72.50       72.50
      1 |          22       27.50      100.00
-----+-----
Total |          80      100.00
```

```
.
. metareg ES Rev_Cluster12_CO if Target_Beh==3, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      80
REML estimate of between-study variance          tau2              =   .04005
% residual variation due to heterogeneity        I-squared_res     =  67.69%
Proportion of between-study variance explained   Adj R-squared     =  -0.42%
With Knapp-Hartung modification
```

```
-----
              ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster12_CO |   -.0531908   .0773602    -0.69   0.494    - .2072031   .1008215
      _cons      |    .2947708   .0392136     7.52   0.000     .2167026   .3728391
-----
```

```
.
. *Model Rev_SMK_Ulm
.
. tabulate Rev_Cluster13_Id if Target_Beh==3
```

```
Cluster13: |
Identity - |
Controlling |
for |
comparator |
use |      Freq.      Percent      Cum.
-----+-----
      0 |         73         91.25         91.25
      1 |          7          8.75        100.00
-----+-----
Total |         80        100.00
```

```
.
. metareg ES Rev_Cluster13_Id if Target_Beh==3, wsse(_SE) knapphartung reml
```

```

Meta-regression                                Number of obs =      80
REML estimate of between-study variance         tau2           =   .04065
% residual variation due to heterogeneity       I-squared_res   =  67.79%
Proportion of between-study variance explained  Adj R-squared   =  -1.93%
With Knapp-Hartung modification

```

```

-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster13_Id |   -.0611302   .1196144    -0.51   0.611    -.2992641    .1770038
      _cons |    .286624   .0355521     8.06   0.000     .2158452    .3574027
-----

```

```

.
. *Model Rev_SMK_Uln
.
. tabulate Rev_Cluster14_NC          if Target_Beh==3

```

```

Cluster14: |
  Natural |
Consequence |
    s - |
Controlling |
    for |
comparator |
    use |      Freq.      Percent      Cum.
-----+-----
      0 |         55         68.75         68.75
      1 |         25         31.25        100.00
-----+-----
    Total |         80        100.00

```

```

.
. metareg ES Rev_Cluster14_NC      if Target_Beh==3, wsse(_SE) knapphartung reml

```

```

Meta-regression                                Number of obs =      80
REML estimate of between-study variance        tau2           =   .04062
% residual variation due to heterogeneity      I-squared_res  =  68.23%
Proportion of between-study variance explained Adj R-squared =  -1.86%
With Knapp-Hartung modification

```

```

-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster14_NC |   .0163714   .0756082     0.22   0.829    - .134153   .1668958
      _cons |   .2766384   .0399911     6.92   0.000    .1970221   .3562546
-----

```

```

.
. *Model Rev_SMK_U1o
.
. tabulate Rev_Cluster15_CB          if Target_Beh==3

```

```

Cluster15: |
Comparison |
      of |
Behaviour - |
Controlling |
      for |
comparator |
      use |      Freq.      Percent      Cum.
-----+-----
      0 |          76          95.00          95.00
      1 |           4           5.00         100.00
-----+-----
Total |          80         100.00

```

```

.
. metareg ES Rev_Cluster15_CB      if Target_Beh==3, wsse(_SE) knapphartung reml

```

Meta-regression

REML estimate of between-study variance

% residual variation due to heterogeneity

Proportion of between-study variance explained

With Knapp-Hartung modification

Number of obs = 80

tau2 = .04069

I-squared_res = 67.74%

Adj R-squared = -2.04%

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_Cluster15_CB	.0564418	.1441355	0.39	0.696	-.23051	.3433935
_cons	.2779036	.0350037	7.94	0.000	.2082165	.3475907

```
.
. *Model Rev_SMK_U1p
.
. tabulate Rev_Cluster16_CL if Target_Beh==3
```

Cluster16:			
Covert			
Learning -			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
0	79	98.75	98.75
1	1	1.25	100.00
Total	80	100.00	

Meta-regression of Intervention function

```
. *Model Rev_SMK_U2a
```

```
.
. tabulate Rev_iif1                                if Target_Beh==3
```

Rev_iif1	Freq.	Percent	Cum.
-----+-----			
0	48	60.00	60.00
1	32	40.00	100.00
-----+-----			
Total	80	100.00	

```
.
. metareg ES Rev_iif1                                if Target_Beh==3, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      80
REML estimate of between-study variance          tau2              =   .04083
% residual variation due to heterogeneity         I-squared_res     =  68.39%
Proportion of between-study variance explained    Adj R-squared     = -2.38%
With Knapp-Hartung modification
```

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_iif1	-.0260823	.070095	-0.37	0.711	-.1656307	.1134662
_cons	.2911203	.043098	6.75	0.000	.2053188	.3769218
-----+-----						

```
.
. *Model Rev_SMK_U2b
.
. tabulate Rev_iif2                                if Target_Beh==3
```

Rev_iif2	Freq.	Percent	Cum.
-----+-----			
0	59	73.75	73.75

1	21	26.25	100.00
---	----	-------	--------

-----+-----

Total	80	100.00
-------	----	--------

.

```
. metareg ES Rev_iif2 if Target_Beh==3, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	80
REML estimate of between-study variance	tau2 =	.04086
% residual variation due to heterogeneity	I-squared_res =	68.47%
Proportion of between-study variance explained	Adj R-squared =	-2.47%

With Knapp-Hartung modification

-----+-----

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
----	-------	-----------	---	------	----------------------

-----+-----

Rev_iif2	-.0087047	.0770197	-0.11	0.910	-.1620392 .1446298
----------	-----------	----------	-------	-------	--------------------

_cons	.2835746	.0396583	7.15	0.000	.204621 .3625283
-------	----------	----------	------	-------	------------------

-----+-----

.

```
. *Model Rev_SMK_U2c
```

.

```
. tabulate Rev_iif3 if Target_Beh==3
```

Rev_iif3	Freq.	Percent	Cum.
----------	-------	---------	------

-----+-----

0	74	92.50	92.50
---	----	-------	-------

1	6	7.50	100.00
---	---	------	--------

-----+-----

Total	80	100.00
-------	----	--------

.

```
. metareg ES Rev_iif3 if Target_Beh==3, wsse(_SE) knapphartung reml
```

```

Meta-regression                                Number of obs =      80
REML estimate of between-study variance         tau2           =    .0405
% residual variation due to heterogeneity       I-squared_res  =   68.33%
Proportion of between-study variance explained  Adj R-squared  =   -1.55%
With Knapp-Hartung modification

```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_iif3	-.140571	.1252342	-1.12	0.265	-.3898931	.1087511
_cons	.2923916	.0353465	8.27	0.000	.2220221	.362761

```

.
. *Model Rev_SMK_U2d
.
. tabulate Rev_iif4                                if Target_Beh==3

```

Rev_iif4	Freq.	Percent	Cum.
-----+-----			
0	79	98.75	98.75
1	1	1.25	100.00
-----+-----			
Total	80	100.00	

```

.
.
. *Model Rev_SMK_U2e
.
. tabulate Rev_iif5                                if Target_Beh==3

```

Rev_iif5	Freq.	Percent	Cum.
-----+-----			
0	61	76.25	76.25
1	19	23.75	100.00

```

-----+-----
      Total |          80          100.00

.

. metareg ES Rev_iif5                                if Target_Beh==3, wsse(_SE) knapphartung reml

Meta-regression                                     Number of obs =          80
REML estimate of between-study variance              tau2                =   .04055
% residual variation due to heterogeneity            I-squared_res       =  67.82%
Proportion of between-study variance explained       Adj R-squared       =  -1.68%
With Knapp-Hartung modification

-----+-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
  Rev_iif5 |  -.0269759   .0763938    -0.35   0.725    - .1790642   .1251124
    _cons |   .2884923   .0397076     7.27   0.000     .2094405   .3675442
-----+-----

.

. *Model Rev_SMK_U2f

.

. tabulate Rev_iif6                                if Target_Beh==3

      Rev_iif6 |      Freq.   Percent      Cum.
-----+-----
          0 |          80   100.00   100.00
-----+-----

      Total |          80   100.00

.

.

. *Model Rev_SMK_U2g

.

. tabulate Rev_iif7                                if Target_Beh==3

```

Rev_iif7	Freq.	Percent	Cum.
-----+-----			
0	66	82.50	82.50
1	14	17.50	100.00
-----+-----			
Total	80	100.00	

```
.
. metareg ES Rev_iif7 if Target_Beh==3, wsse(_SE) knapphartung reml
```

```
Meta-regression                      Number of obs =      80
REML estimate of between-study variance      tau2          =   .03806
% residual variation due to heterogeneity     I-squared_res   =  61.92%
Proportion of between-study variance explained  Adj R-squared   =   4.56%
With Knapp-Hartung modification
```

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_iif7	.0915331	.0830859	1.10	0.274	-.0738782	.2569443
_cons	.2622651	.0372852	7.03	0.000	.1880359	.3364942
-----+-----						

```
.
. *Model Rev_SMK_U2h
.
. tabulate Rev_iif8 if Target_Beh==3
```

Rev_iif8	Freq.	Percent	Cum.
-----+-----			
0	79	98.75	98.75
1	1	1.25	100.00
-----+-----			
Total	80	100.00	

```

.
.
. *Model Rev_SMK_U2i
.
. tabulate Rev_iif9                                if Target_Beh==3

```

Rev_iif9	Freq.	Percent	Cum.
0	25	31.25	31.25
1	55	68.75	100.00
Total	80	100.00	

```

.
. metareg ES Rev_iif9                                if Target_Beh==3, wsse(_SE) knapphartung reml

```

```

Meta-regression                                Number of obs =      80
REML estimate of between-study variance          tau2              =   .04026
% residual variation due to heterogeneity        I-squared_res      =  66.44%
Proportion of between-study variance explained  Adj R-squared      = -0.96%
With Knapp-Hartung modification

```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_iif9	.037996	.0722555	0.53	0.600	-.1058537 .1818456
_cons	.2555157	.0593455	4.31	0.000	.1373679 .3736635

Meta-regression of Theory-basedness

```

..
. *Model Rev_SMK_U3
.
. tabulate itb                                if Target_Beh==3

```

ITB	Freq.	Percent	Cum.
-----+-----			
No	59	73.75	73.75
Yes	21	26.25	100.00
-----+-----			
Total	80	100.00	

```
.
. metareg ES itb if Target_Beh==3, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      80
REML estimate of between-study variance         tau2              =   .03572
% residual variation due to heterogeneity       I-squared_res    =  64.96%
Proportion of between-study variance explained  Adj R-squared    =  10.43%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
itb	-.1338075	.0767846	-1.74	0.085	-.2866739	.0190588
_cons	.3121625	.0375241	8.32	0.000	.2374577	.3868672
-----+-----						

```
..
```

DIET

Meta-analysis

```
. metan ES _SE if Target_Beh==5, label(namevar=StudyID) sortby(StudyID) random effect(SMD)
astext(50) textsize(100) force xlabel(-1, -0.5, 0, 0.5, 1) favo
> urs (Favours Control # Favours Intervention)
```

Study	ES	[95% Conf. Interval]		% Weight
Burke 2008	0.206	-0.078	0.490	3.66
Clark 2004	0.548	0.148	0.947	2.73
Eakin 2007	0.380	0.100	0.660	3.70
Eakin 2010	0.204	0.014	0.394	4.53
Ellingsen 2005	0.339	0.173	0.506	4.74
Giannuzzi 2008	0.222	0.153	0.291	5.44
Glasgow 2006	0.368	0.139	0.597	4.17
Groeneveld 2011	1.114	0.910	1.317	4.40
Guelinckx 2010	0.399	-0.031	0.828	2.53

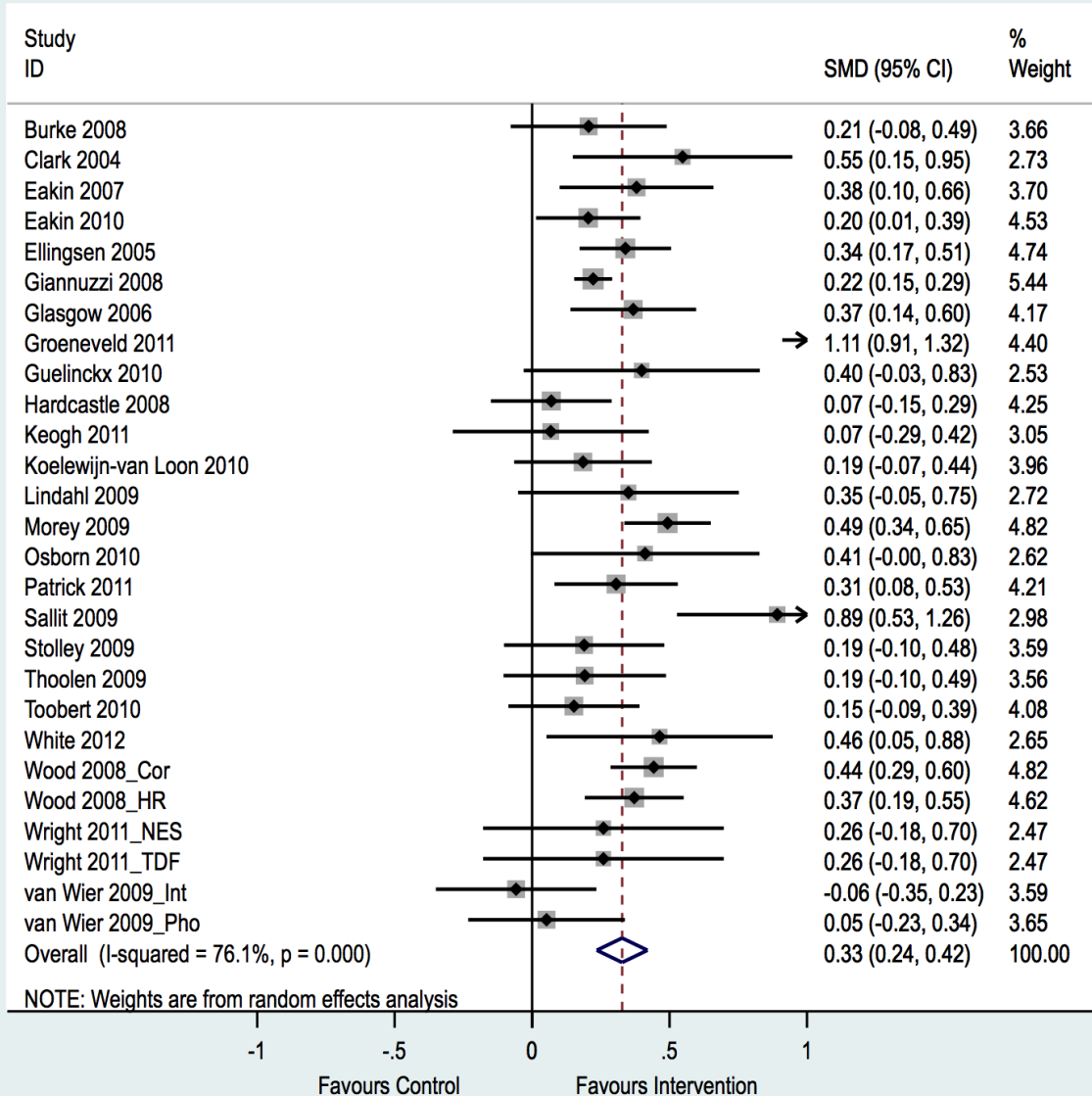
Hardcastle 2008		0.070	-0.150	0.290	4.25
Keogh 2011		0.068	-0.289	0.424	3.05
Koelewijn-van Loon 2		0.185	-0.065	0.436	3.96
Lindahl 2009		0.351	-0.051	0.752	2.72
Morey 2009		0.493	0.336	0.650	4.82
Osborn 2010		0.411	-0.005	0.827	2.62
Patrick 2011		0.306	0.081	0.530	4.21
Sallit 2009		0.892	0.527	1.257	2.98
Stolley 2009		0.189	-0.102	0.481	3.59
Thoolen 2009		0.192	-0.104	0.487	3.56
Toobert 2010		0.152	-0.086	0.391	4.08
White 2012		0.464	0.052	0.875	2.65
Wood 2008_Cor		0.443	0.285	0.600	4.82
Wood 2008_HR		0.372	0.192	0.551	4.62
Wright 2011_NES		0.260	-0.178	0.697	2.47
Wright 2011_TDF		0.260	-0.178	0.697	2.47
van Wier 2009_Int		-0.058	-0.350	0.234	3.59
van Wier 2009_Ph		0.053	-0.232	0.337	3.65
-----+-----					
D+L pooled ES		0.328	0.235	0.420	100.00
-----+-----					

Heterogeneity chi-squared = 108.57 (d.f. = 26) p = 0.000

I-squared (variation in ES attributable to heterogeneity) = 76.1%

Estimate of between-study variance Tau-squared = 0.0394

Test of ES=0 : z= 6.97 p = 0.000

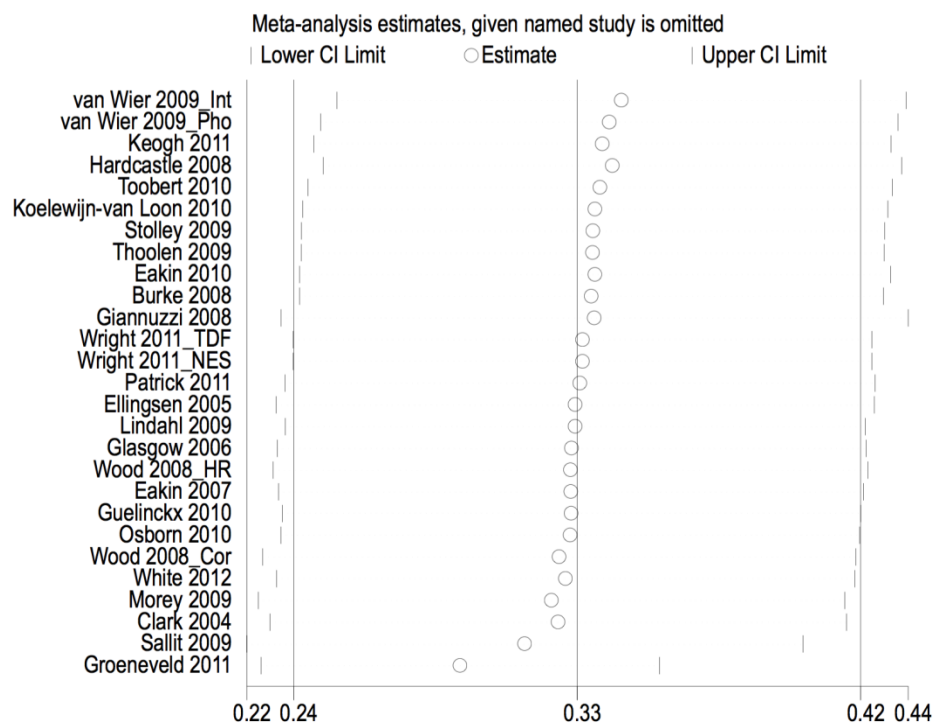


Outliers

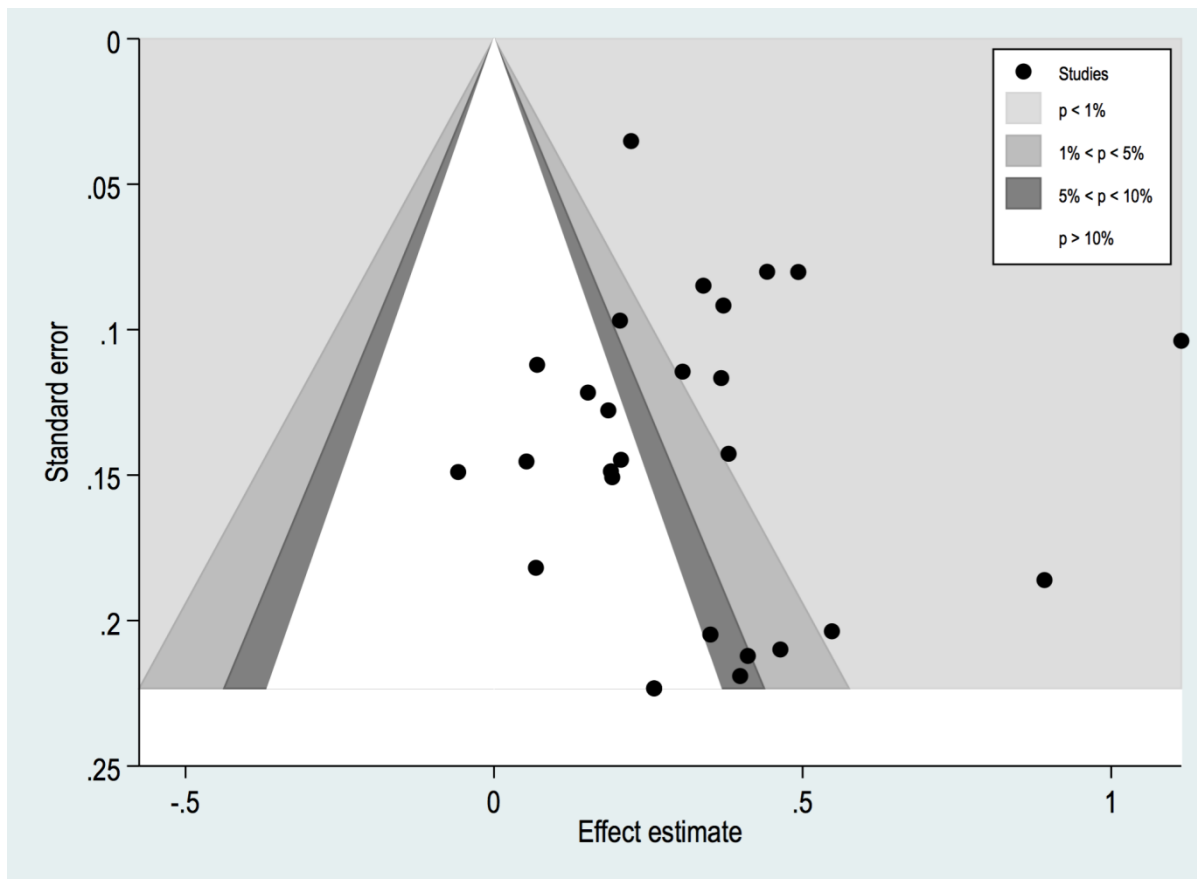
```
. metaninf ES _SE if Target_Beh==5, label(namevar=StudyID) random
```

Study omitted	Estimate	[95% Conf. Interval]
van Wier 2009_Int	.34192914	.24943407 .43442419
van Wier 2009_Ph	.33800712	.2442046 .43180963
Keogh 2011	.33575717	.24198081 .42953351
Hardcastle 2008	.33903766	.24500984 .43306547
Toobert 2010	.33501554	.24005148 .42997959
Koelewijn-van Loon 2010	.33344278	.23834178 .42854378
Stolley 2009	.33272418	.23796664 .42748171
Thoolen 2009	.33259475	.23785943 .42733011
Eakin 2010	.33336931	.23729654 .42944208
Burke 2008	.33220142	.23730873 .42709413
Giannuzzi 2008	.33321345	.23129018 .43513674
Wright 2011_TDF	.32930961	.23529416 .42332503
Wright 2011_NES	.32930961	.23529416 .42332503
Patrick 2011	.32851332	.23262993 .42439669
Ellingsen 2005	.32696277	.22975309 .42417243
Lindahl 2009	.32692501	.23272125 .42112878
Glasgow 2006	.32580164	.23009144 .42151183
Wood 2008_HR	.32543096	.22877735 .42208457
Eakin 2007	.32555148	.23050253 .42060041
Guelinckx 2010	.32571724	.23170744 .41972706
Osborn 2010	.3253164	.23126429 .41936854
Wood 2008_Cor	.32178867	.22538954 .41818777
White 2012	.3238537	.22990365 .41780376
Morey 2009	.31922948	.2239428 .41451618
Clark 2004	.32139552	.2277109 .41508013
Sallit 2009	.31058943	.22018847 .4009904
Groeneveld 2011	.28959233	.22486502 .3543196
Combined	.32758663	.23546573 .41970753

No trials had point estimate outside the combined CI.



Publication bias



```
. metabias ES SE if Target_Beh==5, egger graph
```

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 = 27 Root MSE = 2.067

	Std_Eff	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
slope		.2623561	.0853636	3.07	0.005	.0865465 .4381658
bias		.5192526	.8089531	0.64	0.527	-1.146817 2.185323

Test of H0: no small-study effects P = 0.527

```
. metatrim ES _SE          if Target_Beh==5, reffect funnel
```

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

Meta-analysis

	Pooled	95% CI		Asymptotic		No. of
Method	Est	Lower	Upper	z_value	p_value	studies
Fixed	0.310	0.270	0.350	15.268	0.000	27
Random	0.328	0.235	0.420	6.970	0.000	

Test for heterogeneity: Q= 108.574 on 26 degrees of freedom (p= 0.000)

Moment-based estimate of between studies variance = 0.039

Trimming estimator: Linear

Meta-analysis type: Random-effects model

iteration	estimate	Tn	# to trim	diff
1	0.328	159	0	378
2	0.328	159	0	0

Note: no trimming performed; data unchanged

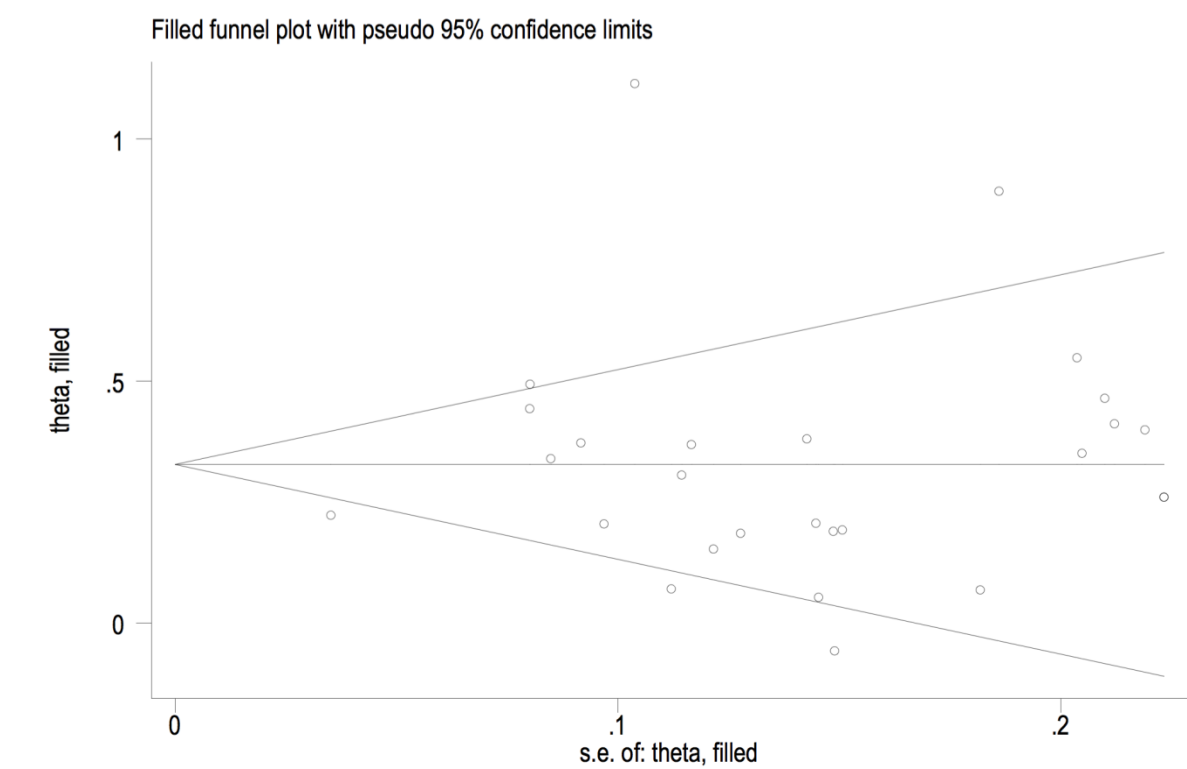
Filled

Meta-analysis

	Pooled	95% CI		Asymptotic		No. of
Method	Est	Lower	Upper	z_value	p_value	studies
Fixed	0.310	0.270	0.350	15.268	0.000	27
Random	0.328	0.235	0.420	6.970	0.000	

Test for heterogeneity: Q= 108.574 on 26 degrees of freedom (p= 0.000)

Moment-based estimate of between studies variance = 0.039



Meta-regression of BCT Clusters

```
. *Model Rev_Diet_U1a
.
. tabulate  Rev_Cluster1_SS              if Target_Beh==5
```

Cluster1:				
Social				
Support	-			
Controlling				
for				
comparator				
use		Freq.	Percent	Cum.
-----+-----				
0		8	29.63	29.63

1	19	70.37	100.00
---	----	-------	--------

-----+-----

Total	27	100.00	
-------	----	--------	--

```
.
. metareg ES Rev_Cluster1_SS if Target_Beh==5, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	27
REML estimate of between-study variance	tau2 =	.04698
% residual variation due to heterogeneity	I-squared_res =	76.95%
Proportion of between-study variance explained	Adj R-squared =	-4.85%
With Knapp-Hartung modification		

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----					
Rev_Cluster1_SS	-.0095912	.115529	-0.08	0.934	-.2475277 .2283453
_cons	.3346993	.100047	3.35	0.003	.1286487 .54075

```
.
. *Model Rev_Diet_U1b
.
. tabulate Rev_Cluster2_Reg if Target_Beh==5
```

Cluster2:			
Regulation			
-			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
-----+-----			
0	23	85.19	85.19
1	4	14.81	100.00

```

-----+-----
Total |          27      100.00

.

. metareg ES  Rev_Cluster2_Reg      if Target_Beh==5, wsse(_SE) knapphartung reml

Meta-regression                                Number of obs =          27
REML estimate of between-study variance          tau2              =   .04633
% residual variation due to heterogeneity        I-squared_res    =   76.85%
Proportion of between-study variance explained   Adj R-squared    =   -3.39%
With Knapp-Hartung modification

-----+-----
              ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster2_Reg |   .1156394   .1502685     0.77   0.449    - .1938443    .4251231
      _cons      |   .313001   .0532289     5.88   0.000     .2033741    .4226279
-----+-----

.

. *Model Rev_Diet_U1c

.

. tabulate  Rev_Cluster3_FM              if Target_Beh==5

Cluster3: |
Feedback & |
Monitoring |
      - |
Controlling |
      for |
comparator |
      use |      Freq.      Percent      Cum.
-----+-----
      0 |          13          48.15          48.15
      1 |          14          51.85         100.00

```

```

-----+-----
Total |          27      100.00

.

. metareg ES   Rev_Cluster3_FM              if Target_Beh==5, wsse(_SE) knapphartung reml

```

```

Meta-regression                                Number of obs =          27
REML estimate of between-study variance          tau2           =   .04693
% residual variation due to heterogeneity        I-squared_res    =  76.95%
Proportion of between-study variance explained   Adj R-squared    =  -4.73%

With Knapp-Hartung modification

```

```

-----+-----
          ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster3_FM |  -.0259768   .1000209    -0.26   0.797    -.2319736    .1800201
      _cons |   .3403923   .0704445     4.83   0.000     .1953091    .4854755
-----+-----

```

```

.

. *Model Rev_Diet_U1d

.

. tabulate Rev_Cluster4_Asc              if Target_Beh==5

```

```

Cluster4: |
Association |
          s - |
Controlling |
          for |
comparator |
          use |      Freq.      Percent      Cum.
-----+-----
          0 |          26          96.30          96.30
          1 |           1           3.70         100.00
-----+-----

```

Total		27	100.00
-------	--	----	--------

```
.
.
. *Model Rev_Diet_U1e
.
. tabulate Rev_Cluster5_RS          if Target_Beh==5
```

Cluster5:				
Repetition				
and				
Substitutio				
ns -				
Controlling				
for				
comparator				
use		Freq.	Percent	Cum.
-----+-----				
0		16	59.26	59.26
1		11	40.74	100.00
-----+-----				
Total		27	100.00	

```
.
. metareg ES Rev_Cluster5_RS          if Target_Beh==5, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	27
REML estimate of between-study variance	tau2	=	.04697
% residual variation due to heterogeneity	I-squared_res	=	75.91%
Proportion of between-study variance explained	Adj R-squared	=	-4.82%
With Knapp-Hartung modification			

ES		Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----						

```

Rev_Cluster5_RS |  -.0262425   .1013358   -0.26   0.798   -.2349474   .1824624
      _cons |    .3385452    .065723    5.15   0.000    .2031862    .4739042

```

```

.
. *Model Rev_Diet_Ulf
.
. tabulate Rev_Cluster6_Ant          if Target_Beh==5

```

```

Cluster6: |
Antecedents |
      - |
Controlling |
      for |
comparator |
      use |      Freq.      Percent      Cum.
-----+-----
      0 |          17          62.96          62.96
      1 |          10          37.04         100.00
-----+-----
Total |          27         100.00

```

```

. metareg ES Rev_Cluster6_Ant      if Target_Beh==5, wsse(_SE) knapphartung reml

```

```

Meta-regression                               Number of obs =          27
REML estimate of between-study variance        tau2              =    .04727
% residual variation due to heterogeneity      I-squared_res      =   76.51%
Proportion of between-study variance explained Adj R-squared   =  -5.49%
With Knapp-Hartung modification

```

```

      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster6_Ant |  -.0136529   .1020045    -0.13   0.895   - .2237351   .1964293

```

```

      _cons |      .3330813      .0651919      5.11      0.000      .1988162      .4673465
-----

```

```

.
. *Model Rev_Diet_Ulg
.
. tabulate Rev_Cluster7_SK          if Target_Beh==5

```

```

Cluster7: |
  Shaping |
Knowledge - |
Controlling |
  for |
comparator |
  use |      Freq.      Percent      Cum.
-----+-----
      0 |          16          59.26          59.26
      1 |          11          40.74         100.00
-----+-----
Total |          27         100.00

```

```

.
. metareg ES Rev_Cluster7_SK          if Target_Beh==5, wsse(_SE) knapphartung reml

```

```

Meta-regression                      Number of obs =          27
REML estimate of between-study variance      tau2              =    .04386
% residual variation due to heterogeneity     I-squared_res        =   74.67%
Proportion of between-study variance explained  Adj R-squared        =    2.11%
With Knapp-Hartung modification

```

```

-----
      ES |      Coef.      Std. Err.      t      P>|t|      [95% Conf. Interval]
-----+-----
Rev_Cluster7_SK |   -.1203326    .0990344     -1.22    0.236    -.3242979    .0836326
      _cons |    .3775808    .0638696      5.91    0.000    .2460389    .5091226

```

```
.  
. *Model Rev_Diet_U1h  
.   
. tabulate  Rev_Cluster8_SB          if Target_Beh==5
```

Cluster8:				
Self-belief				
-				
Controlling				
for				
comparator				
use		Freq.	Percent	Cum.
-----+-----				
0		26	96.30	96.30
1		1	3.70	100.00
-----+-----				
Total		27	100.00	

```
.  
.   
. *Model Rev_Diet_U1i  
.   
. tabulate  Rev_Cluster9_SC          if Target_Beh==5
```

Cluster9:				
Scheduled				
Consequence				
s -				
Controlling				
for				
comparator				
use		Freq.	Percent	Cum.

-----+-----			
0	27	100.00	100.00
-----+-----			
Total	27	100.00	

```

.
.
. *Model Rev_Diet_U1j
.
. tabulate Rev_Cluster10_RT          if Target_Beh==5

```

Cluster10:			
Reward &			
Threat -			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
-----+-----			
0	23	85.19	85.19
1	4	14.81	100.00
-----+-----			
Total	27	100.00	

```

.
. metareg ES Rev_Cluster10_RT      if Target_Beh==5, wsse(_SE) knapphartung reml

```

Meta-regression	Number of obs =	27
REML estimate of between-study variance	tau2	= .04715
% residual variation due to heterogeneity	I-squared_res	= 76.65%
Proportion of between-study variance explained	Adj R-squared	= -5.22%
With Knapp-Hartung modification		

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]

```

-----+-----
Rev_Cluster10_RT | .0097035 .1441806 0.07 0.947 -.2872419 .3066489
      _cons | .3261427 .0540319 6.04 0.000 .2148619 .4374234
-----+-----

```

```

.
.
. *Model Rev_Diet_U1k
.
. tabulate Rev_Cluster11_GP          if Target_Beh==5

```

```

Cluster11: |
  Goals & |
Planning - |
Controlling |
      for |
  comparator |
      use |      Freq.      Percent      Cum.
-----+-----
      0 |          1          3.70          3.70
      1 |         26         96.30        100.00
-----+-----
      Total |          27        100.00

```

```

.
.
. *Model Rev_Diet_U1l
.
. tabulate Rev_Cluster12_CO          if Target_Beh==5

```

```

Cluster12: |
Comparison |
of Outcomes |
      - |

```

```
Controlling |
      for |
comparator |
      use |      Freq.      Percent      Cum.
-----+-----
      0 |      22      81.48      81.48
      1 |       5      18.52     100.00
-----+-----
Total |      27     100.00

.
. metareg ES  Rev_Cluster12_CO      if Target_Beh==5, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      27
REML estimate of between-study variance         tau2              =   .03815
% residual variation due to heterogeneity        I-squared_res     =  76.92%
Proportion of between-study variance explained   Adj R-squared     =  14.85%
With Knapp-Hartung modification
```

```
-----+-----
      ES |      Coef.   Std. Err.      t    P>|t|    [95% Conf. Interval]
-----+-----
Rev_Cluster12_CO |   .2526857   .121803    2.07   0.048   .0018277   .5035436
      _cons |   .2828945   .0512368    5.52   0.000   .1773703   .3884188
-----+-----
```

```
.
. *Model Rev_Diet_Ulm
.
. tabulate Rev_Cluster13_Id      if Target_Beh==5
```

```
Cluster13: |
Identity - |
Controlling |
      for |
```

```

comparator |
      use |      Freq.      Percent      Cum.
-----+-----
      0 |      25      92.59      92.59
      1 |       2       7.41     100.00
-----+-----
    Total |      27     100.00

.
.
. *Model Rev_Diet_Uln
.
. tabulate  Rev_Cluster14_NC          if Target_Beh==5

```

```

Cluster14: |
    Natural |
Consequence |
      s - |
Controlling |
      for |
comparator |
      use |      Freq.      Percent      Cum.
-----+-----
      0 |      23      85.19      85.19
      1 |       4      14.81     100.00
-----+-----
    Total |      27     100.00

```

```

.
. metareg ES  Rev_Cluster14_NC    if Target_Beh==5, wsse(_SE) knapphartung reml

```

Meta-regression	Number of obs	=	27
REML estimate of between-study variance	tau2	=	.04637
% residual variation due to heterogeneity	I-squared_res	=	76.89%

Proportion of between-study variance explained

Adj R-squared = -3.49%

With Knapp-Hartung modification

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_Cluster14_NC	-.0816579	.1438388	-0.57	0.575	-.3778994	.2145835
_cons	.3388797	.0536709	6.31	0.000	.2283424	.4494169

```
.  
. *Model Rev_Diet_U1o  
.   
. tabulate Rev_Cluster15_CB if Target_Beh==5
```

Cluster15:			
Comparison			
of			
Behaviour -			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
0	23	85.19	85.19
1	4	14.81	100.00
Total	27	100.00	

```
.  
. metareg ES Rev_Cluster15_CB if Target_Beh==5, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	27
REML estimate of between-study variance	tau2 =	.04729
% residual variation due to heterogeneity	I-squared_res =	76.89%

Proportion of between-study variance explained

Adj R-squared = -5.55%

With Knapp-Hartung modification

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_Cluster15_CB	-.034548	.1392004	-0.25	0.806	-.3212366	.2521406
_cons	.3328008	.0545021	6.11	0.000	.2205516	.4450499

```
.  
. *Model Rev_Diet_Ulp  
.   
. tabulate Rev_Cluster16_CL if Target_Beh==5
```

Cluster16:			
Covert			
Learning -			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
-----+-----			
0	27	100.00	100.00
-----+-----			
Total	27	100.00	

Meta-regression of Intervention function

```
. *Model Rev_Diet_U2a  
.   
. tabulate Rev_iif1 if Target_Beh==5
```

Rev_iif1	Freq.	Percent	Cum.
-----+-----			
0	10	37.04	37.04
1	17	62.96	100.00

```

-----+-----
Total |          27          100.00

.

. metareg ES  Rev_iif1                      if Target_Beh==5, wsse(_SE) knapphartung reml

```

```

Meta-regression                      Number of obs =          27
REML estimate of between-study variance      tau2              =    .04616
% residual variation due to heterogeneity     I-squared_res      =   76.07%
Proportion of between-study variance explained  Adj R-squared      =   -3.02%
With Knapp-Hartung modification

```

```

-----+-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_iif1 |  -.0679579   .1031426    -0.66   0.516    - .2803841   .1444682
   _cons |   .3705295   .0820616     4.52   0.000     .2015205   .5395385
-----+-----

```

```

.

. *Model Rev_Diet_U2b

.

. tabulate  Rev_iif2                      if Target_Beh==5

```

```

Rev_iif2 |      Freq.   Percent      Cum.
-----+-----
      0 |         21     77.78     77.78
      1 |          6     22.22    100.00
-----+-----
Total   |         27    100.00

```

```

.

. metareg ES  Rev_iif2                      if Target_Beh==5, wsse(_SE) knapphartung reml

Meta-regression                      Number of obs =          27

```

```

REML estimate of between-study variance      tau2      = .04696
% residual variation due to heterogeneity     I-squared_res = 76.52%
Proportion of between-study variance explained  Adj R-squared = -4.80%
With Knapp-Hartung modification

```

```

-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
    Rev_iif2 |   .0834717   .1194356     0.70   0.491    - .1625104   .3294539
      _cons |   .3085673   .0568913     5.42   0.000     .1913974   .4257372
-----

```

```

.
. *Model Rev_Diet_U2c
.
. tabulate Rev_iif3                                if Target_Beh==5

```

```

      Rev_iif3 |      Freq.   Percent      Cum.
-----+-----
          0 |         23     85.19     85.19
          1 |          4     14.81    100.00
-----+-----
        Total |         27    100.00

```

```

.
. metareg ES Rev_iif3                                if Target_Beh==5, wsse(_SE) knapphartung reml

```

```

Meta-regression      Number of obs =      27
REML estimate of between-study variance      tau2      = .04715
% residual variation due to heterogeneity     I-squared_res = 76.65%
Proportion of between-study variance explained  Adj R-squared = -5.22%
With Knapp-Hartung modification

```

```

-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----

```

```

Rev_iif3 | .0097035 .1441806 0.07 0.947 -.2872419 .3066489
_cons | .3261427 .0540319 6.04 0.000 .2148619 .4374234

```

```

.
.
. *Model Rev_Diet_U2d
.
. tabulate Rev_iif4 if Target_Beh==5

```

Rev_iif4	Freq.	Percent	Cum.
0	27	100.00	100.00
Total	27	100.00	

```

.
.
. *Model Rev_Diet_U2e
.
. tabulate Rev_iif5 if Target_Beh==5

```

Rev_iif5	Freq.	Percent	Cum.
0	12	44.44	44.44
1	15	55.56	100.00
Total	27	100.00	

```

.
. metareg ES Rev_iif5 if Target_Beh==5, wsse(_SE) knapphartung reml

```

Meta-regression	Number of obs =	27
REML estimate of between-study variance	tau2 =	.04106

```
% residual variation due to heterogeneity          I-squared_res = 73.44%
Proportion of between-study variance explained      Adj R-squared = 8.36%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_iif5	-.1543646	.095977	-1.61	0.120	-.3520331	.0433038
_cons	.4133886	.0715652	5.78	0.000	.2659972	.5607799

```
.
. *Model Rev_Diet_U2f
.
. tabulate Rev_iif6                                if Target_Beh==5
```

Rev_iif6	Freq.	Percent	Cum.
-----+-----			
0	27	100.00	100.00
-----+-----			
Total	27	100.00	

```
.
.
. *Model Rev_Diet_U2g
.
. tabulate Rev_iif7                                if Target_Beh==5
```

Rev_iif7	Freq.	Percent	Cum.
-----+-----			
0	21	77.78	77.78
1	6	22.22	100.00
-----+-----			
Total	27	100.00	

```
.
. metareg ES Rev_iif7                                if Target_Beh==5, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs   =        27
REML estimate of between-study variance         tau2              =    .04741
% residual variation due to heterogeneity        I-squared_res    =   76.75%
Proportion of between-study variance explained   Adj R-squared    =   -5.80%
With Knapp-Hartung modification
```

```
-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
  Rev_iif7 |   .0250175   .1139993     0.22   0.828    - .2097685   .2598035
    _cons |   .3209222   .0584718     5.49   0.000     .2004972   .4413472
-----
```

```
.
.
. *Model Rev_Diet_U2h
.
. tabulate Rev_iif8                                if Target_Beh==5
```

```
      Rev_iif8 |      Freq.   Percent      Cum.
-----+-----
          0 |          26     96.30     96.30
          1 |           1      3.70    100.00
-----+-----
        Total |          27    100.00
```

```
.
.
. *Model Rev_Diet_U2i
.
. tabulate Rev_iif9                                if Target_Beh==5
```

Rev_iif9	Freq.	Percent	Cum.
0	2	7.41	7.41
1	25	92.59	100.00
Total	27	100.00	

.

Meta-regression of Theory-basedness

.

. *Model Diet_U3

.

. tabulate itb if Target_Beh==5

ITB	Freq.	Percent	Cum.
No	15	55.56	55.56
Yes	12	44.44	100.00
Total	27	100.00	

.

. metareg ES itb if Target_Beh==5, wsse(_SE) knapphartung reml

```

Meta-regression                                Number of obs =      27
REML estimate of between-study variance         tau2              =    .0471
% residual variation due to heterogeneity        I-squared_res     =   76.92%
Proportion of between-study variance explained   Adj R-squared     =   -5.12%
With Knapp-Hartung modification

```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
itb	-.0193035	.1012018	-0.19	0.850	-.2277324	.1891254
_cons	.3357728	.0662286	5.07	0.000	.1993724	.4721732

PHYSICAL ACTIVITY

Meta-analysis

```
. metan ES _SE if Target_Beh==4, label(namevar=StudyID) sortby(StudyID) random effect(SMD)
astext(50) textsize(200) force xlab
```

```
> 1(-1, -0.5, 0, 0.5, 1) favours (Favours Control # Favours Intervention)
```

Study	ES	[95% Conf. Interval]		%Weight
Armit 2008_ES	0.072	-0.538	0.682	0.86
Armit 2008_ES+P	0.480	-0.112	1.073	0.89
Burke 2008	0.262	0.009	0.516	1.73
Clark 2004	0.333	-0.062	0.728	1.33
Debussche 2012	0.095	-0.126	0.315	1.83
Di Loreto 2003	1.100	0.872	1.329	1.80
Eakin 2007	0.125	-0.152	0.403	1.66
Eakin 2010	-0.059	-0.248	0.131	1.91
Elley 2003	0.265	0.076	0.453	1.91
Eriksson 2009	0.354	-0.010	0.718	1.41
Giannuzzi 2008	0.178	0.109	0.247	2.16
Grandes 2009	0.032	-0.082	0.147	2.08
Groeneveld 2011	0.032	-0.157	0.221	1.91
Guelinckx 2010	0.274	-0.153	0.701	1.25
Hardcastle 2008	0.227	0.007	0.447	1.83
Harting 2006	0.007	-0.114	0.129	2.07
Hertogh 2010	0.010	-0.320	0.340	1.51
Horden 2009	0.158	-0.138	0.454	1.61
Hyman 2007_Seq	0.031	-0.323	0.385	1.44
Hyman 2007_Sim	0.019	-0.333	0.370	1.45
Keogh 2011	0.621	0.256	0.986	1.41
Kirk 2009_PA-P	0.264	-0.294	0.822	0.95
Kirk 2009_PA-W	0.417	-0.136	0.971	0.96
Koelewijin-van Loon	0.030	-0.220	0.280	1.74
Kolt 2007	0.457	0.148	0.766	1.57
Kuller 2012	0.133	-0.056	0.321	1.91
Lawton 2008	0.156	0.019	0.292	2.04
Lindahl 2009	0.503	0.137	0.868	1.41
Lorig 2006	0.057	-0.084	0.198	2.03
Lorig 2010_SM	0.041	-0.204	0.287	1.75
Lorig 2010_SM+MR	-0.001	-0.252	0.251	1.74
Luoto 2011	-0.190	-0.403	0.024	1.85
Marcus 2007_PB	0.523	0.135	0.910	1.35
Marcus 2007_TB	0.153	-0.230	0.536	1.36
McMurdo 2010_BCI	0.401	-0.015	0.816	1.28
McMurdo 2010_BCI+P	0.223	-0.189	0.636	1.28
Moore 2006	0.072	-0.176	0.320	1.75
Morey 2009	0.137	-0.018	0.292	2.00
Muniz 2010	0.140	0.009	0.271	2.05
Nies 2003	0.053	-0.276	0.381	1.51
Nijamkin 2012	0.488	0.143	0.833	1.47
Patrick 2011	0.234	0.011	0.458	1.82
Penn 2009	-0.047	-0.492	0.398	1.20
Pinto 2011	0.442	-0.065	0.949	1.06
Prestwich 2009_II	0.067	-0.652	0.786	0.69
Prestwich 2009_II+SM	0.441	-0.285	1.166	0.69
Prestwich 2009_SMS	0.160	-0.554	0.874	0.70
Reid 2011	0.151	-0.180	0.481	1.51
Smeulders 2009	0.102	-0.122	0.326	1.82

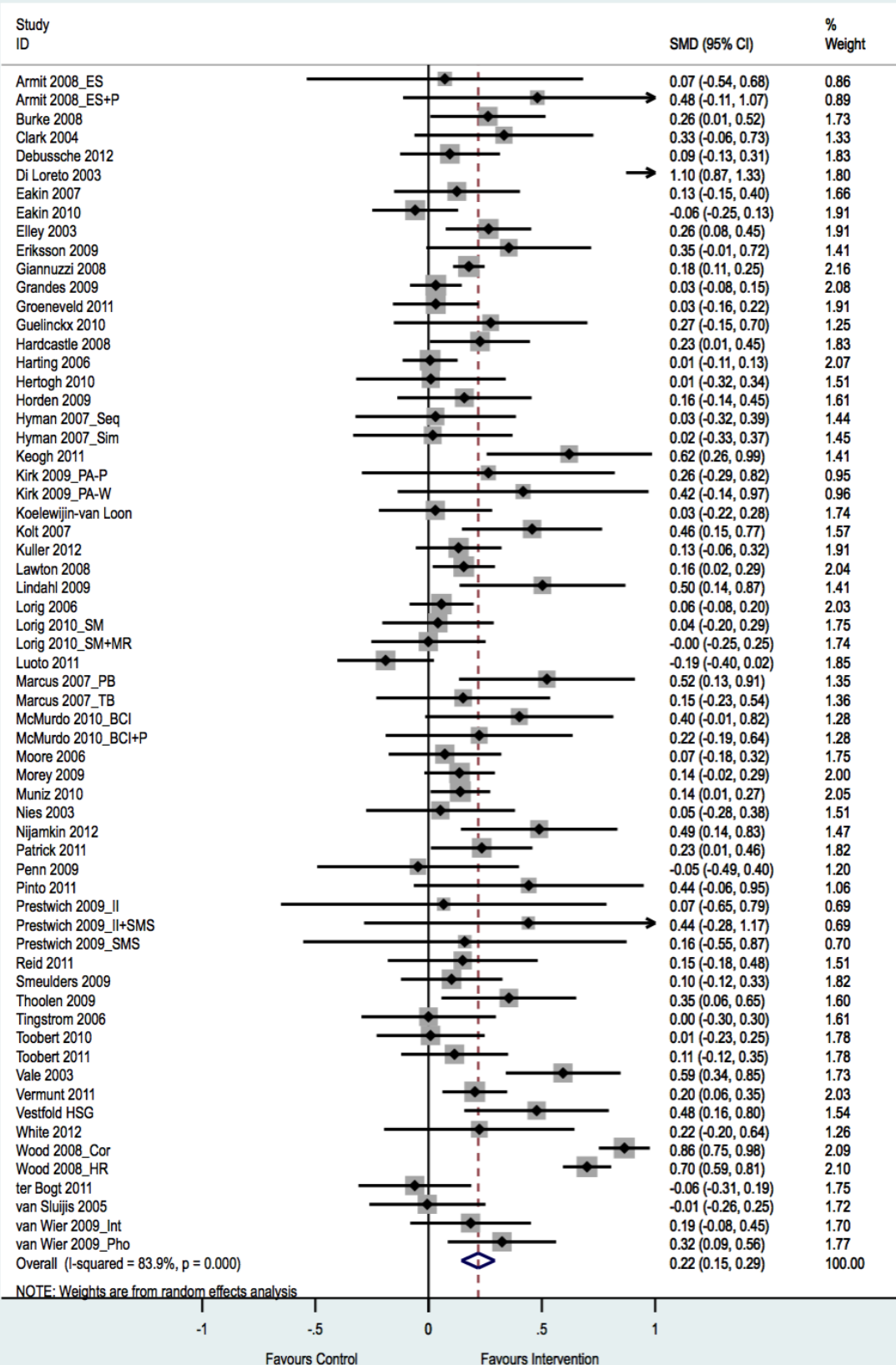
Thoolen 2009		0.355	0.058	0.652	1.60
Tingstrom 2006		0.000	-0.297	0.297	1.61
Toobert 2010		0.009	-0.229	0.247	1.78
Toobert 2011		0.115	-0.121	0.351	1.78
Vale 2003		0.594	0.341	0.847	1.73
Vermunt 2011		0.204	0.062	0.346	2.03
Vestfold HSG		0.477	0.158	0.796	1.54
White 2012		0.224	-0.196	0.644	1.26
Wood 2008_Cor		0.864	0.752	0.976	2.09
Wood 2008_HR		0.700	0.594	0.807	2.10
ter Bogt 2011		-0.061	-0.310	0.188	1.75
van Sluijjs 2005		-0.006	-0.262	0.251	1.72
van Wier 2009_Int		0.186	-0.081	0.452	1.70
van Wier 2009_Ph0		0.324	0.085	0.563	1.77
-----+-----					
D+L pooled ES		0.219	0.147	0.291	100.00
-----+-----					

Heterogeneity chi-squared = 384.40 (d.f. = 62) p = 0.000

I-squared (variation in ES attributable to heterogeneity) = 83.9%

Estimate of between-study variance Tau-squared = 0.0621

Test of ES=0 : z= 5.92 p = 0.000

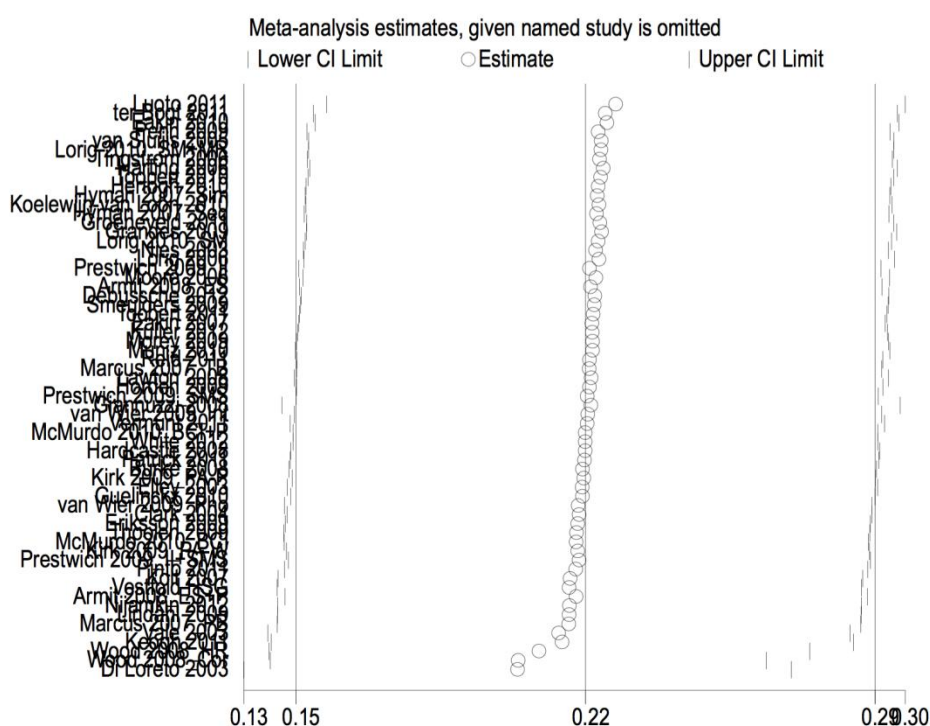


Outliers

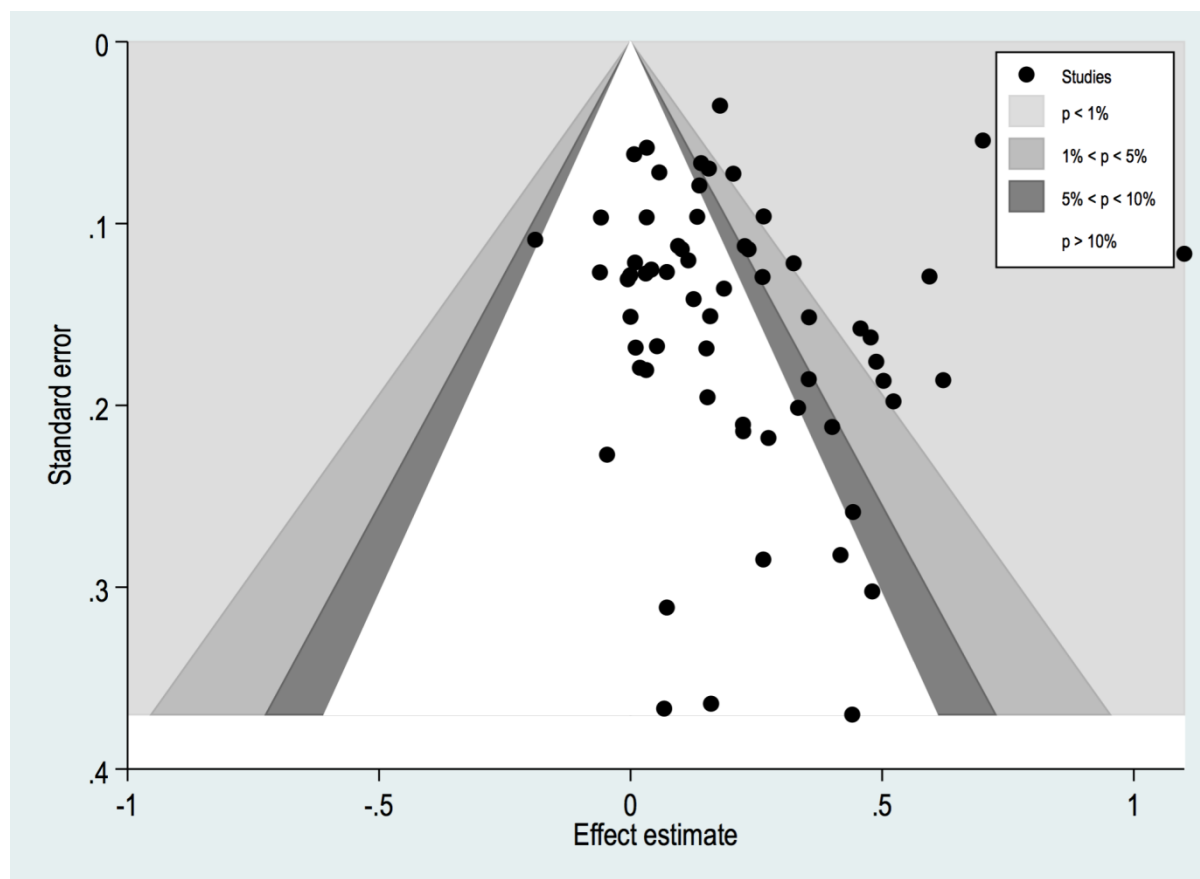
```
. metaninf ES _SE if Target_Beh==4, label(namevar=StudyID) random
```

Study omitted	Estimate	[95% Conf. Interval]
Luoto 2011	.22652543	.15419105 .2988598
ter Bogt 2011	.22389522	.15085915 .2969313
Eakin 2010	.22432551	.15131393 .29733709
Penn 2009	.22216605	.14923616 .29509595
van Sluijjs 2005	.22288114	.14969513 .29606715
Lorig 2010_SM+MR	.22282466	.14962038 .29602894
Tingstrom 2006	.2225177	.1493751 .29566029
Harting 2006	.22343478	.14992999 .29693955
Toobert 2010	.22274548	.14949501 .29599595
Hertogh 2010	.22214544	.14903191 .29525897
Hyman 2007_Sim	.22188888	.14879386 .29498392
Koelewijn-van Loon 2010	.2222984	.1490192 .29557762
Hyman 2007_Seq	.22169493	.14858957 .29480028
Groeneveld 2011	.22260277	.14916505 .29604048
Grandes 2009	.22296213	.14914261 .29678166
Lorig 2010_SM	.22212772	.14881541 .29544005
Nies 2003	.22150975	.14834164 .29467788
Lorig 2006	.22234692	.14854132 .29615253
Prestwich 2009_II	.22000557	.14721692 .29279423
Moore 2006	.22157328	.14820839 .29493818
Armit 2008_ES	.22021508	.14735496 .2930752
Debussche 2012	.22129062	.14779328 .29478794
Smeulders 2009	.22114331	.14764634 .29464027
Toobert 2011	.22086428	.14739193 .29433665
Eakin 2007	.22054791	.14719507 .29390076
Kuller 2012	.22068152	.14695543 .29440761
Morey 2009	.22070239	.14669028 .29471451
Muniz 2010	.22071084	.14636381 .29505786
Reid 2011	.22000384	.14676224 .29324546
Marcus 2007_TB	.21986713	.14672451 .29300973
Lawton 2008	.22038275	.14608242 .2946831
Horden 2009	.21995822	.14663096 .29328546
Prestwich 2009_SMS	.21935962	.14655384 .2921654
Giannuzzi 2008	.22032398	.14300717 .2976408
van Wier 2009_Int	.21955217	.14612426 .2929801
Vermunt 2011	.21937704	.1450741 .29367998
McMurdo 2010_BCI+P	.21889676	.14578974 .29200381
White 2012	.21889107	.14579503 .29198709
Hardcastle 2008	.21884744	.14522195 .29247293
Patrick 2011	.2187072	.14509879 .2923156
Burke 2008	.21821706	.1447407 .29169342
Kirk 2009_PA-P	.21851373	.14558646 .29144099
Elley 2003	.21812813	.14431873 .2919375
Guelinckx 2010	.21825752	.1451758 .29133922
van Wier 2009_Ph	.21708232	.14359403 .29057062
Clark 2004	.21741574	.14430159 .29052988
Eriksson 2009	.2170129	.14385939 .29016641
Thoolen 2009	.21674815	.14346267 .29003361
McMurdo 2010_BCI	.21659417	.14354707 .28964126
Kirk 2009_PA-W	.21701129	.14411603 .28990653
Prestwich 2009_II+SMS	.2174063	.14463215 .29018044

Pinto 2011		.21655051	.14362681	.28947422
Kolt 2007		.21514548	.14201337	.2882776
Vestfold HSG		.21489345	.1418058	.28798109
Armit 2008_ES+P		.21658927	.14375129	.28942725
Nijamkin 2012		.21492371	.14188106	.28796634
Lindahl 2009		.21487549	.1418725	.28787848
Marcus 2007_PB		.21477841	.14181978	.28773704
Vale 2003		.21227616	.13949084	.28506151
Keogh 2011		.21315396	.14034837	.28595954
Wood 2008_HR		.2073735	.13974842	.27499858
Wood 2008_Cor		.20213185	.14009295	.26417077
Di Loreto 2003		.20194164	.13345826	.27042502
-----+				
Combined		.21892636	.14650118	.29135154



Publication bias



```
. metabias ES _SE          if Target_Beh==4, 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 = 63 Root MSE = 2.506

Std_Eff	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
slope	.2573077	.0693963	3.71	0.000	.1185412	.3960742
bias	-.2862308	.6449148	-0.44	0.659	-1.575818	1.003356

Test of H0: no small-study effects P = 0.659

```
. metatrim ES _SE          if Target_Beh==4, reffect funnel
```

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

Meta-analysis

	Pooled	95% CI		Asymptotic		No. of
Method	Est	Lower	Upper	z_value	p_value	studies
Fixed	0.230	0.204	0.257	16.999	0.000	63
Random	0.219	0.147	0.291	5.925	0.000	

Test for heterogeneity: Q= 384.399 on 62 degrees of freedom (p= 0.000)

Moment-based estimate of between studies variance = 0.062

Trimming estimator: Linear

Meta-analysis type: Random-effects model

iteration	estimate	Tn	# to trim	diff
1	0.219	932	0	2016
2	0.219	932	0	0

Note: no trimming performed; data unchanged

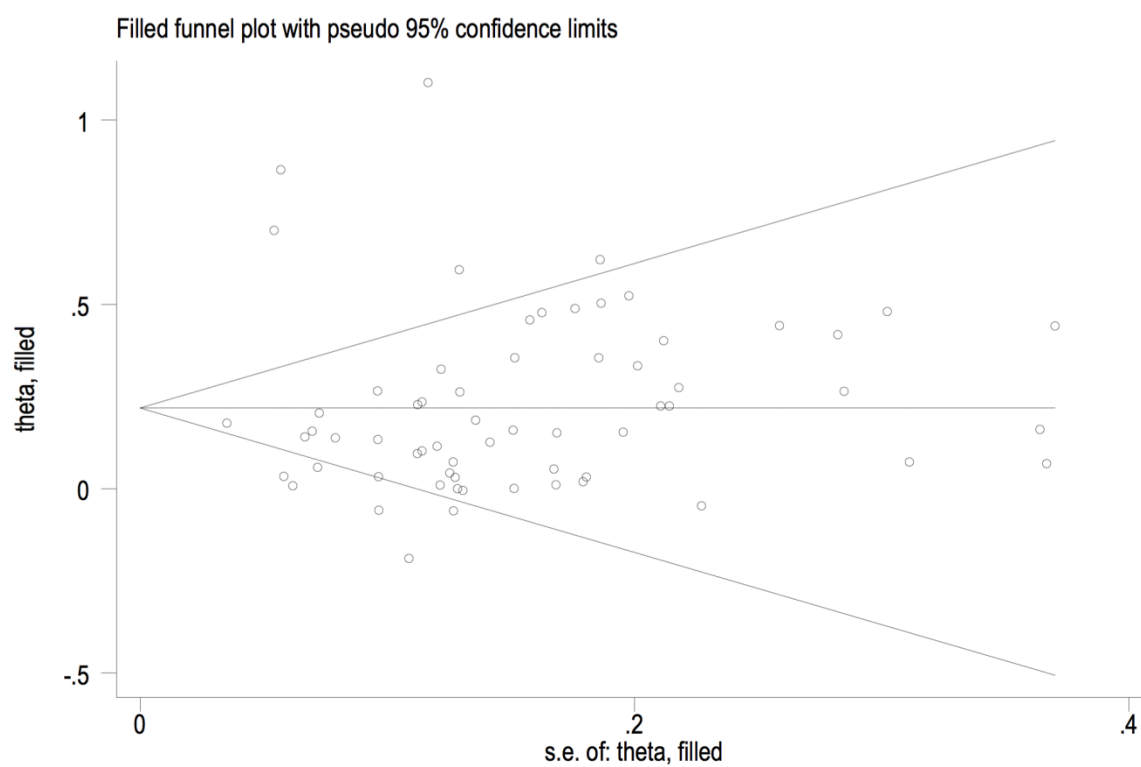
Filled

Meta-analysis

	Pooled	95% CI		Asymptotic		No. of
Method	Est	Lower	Upper	z_value	p_value	studies
Fixed	0.230	0.204	0.257	16.999	0.000	63
Random	0.219	0.147	0.291	5.925	0.000	

Test for heterogeneity: $Q = 384.399$ on 62 degrees of freedom ($p = 0.000$)

Moment-based estimate of between studies variance = 0.062



Meta-regression of BCT Clusters

```
. *Model Rev_PA_U1a
```

```
.
```

```
. tabulate Rev_Cluster1_SS if Target_Beh==4
```

Cluster1:				
Social				
Support -				
Controlling				
for				
comparator				
use		Freq.	Percent	Cum.
-----+-----				
0		19	30.16	30.16
1		44	69.84	100.00
-----+-----				
Total		63	100.00	

```
.
```

```
. metareg ES Rev_Cluster1_SS if Target_Beh==4, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	63	
REML estimate of between-study variance	tau2	=	.04628	
% residual variation due to heterogeneity	I-squared_res	=	83.97%	
Proportion of between-study variance explained	Adj R-squared	=	1.61%	
With Knapp-Hartung modification				

ES	Coef.	Std. Err.	t P> t [95% Conf. Interval]	
-----+-----				
Rev_Cluster1_SS	-.0985576	.0750669	-1.31 0.194	-.2486631 .0515479
_cons	.2903151	.0643509	4.51 0.000	.1616376 .4189927

```
.
```

```
. *Model Rev_PA_U1b
```

```

.
. tabulate Rev_Cluster2_Reg          if Target_Beh==4

Cluster2: |
Regulation |
- |
Controlling |
for |
comparator |
use |      Freq.      Percent      Cum.
-----+-----
0 |          50       79.37       79.37
1 |          13       20.63      100.00
-----+-----
Total |          63      100.00

.

. metareg ES Rev_Cluster2_Reg      if Target_Beh==4, wsse(_SE) knapphartung reml

Meta-regression                               Number of obs =          63
REML estimate of between-study variance        tau2              =   .04686
% residual variation due to heterogeneity      I-squared_res     =  83.27%
Proportion of between-study variance explained Adj R-squared   =   0.38%
With Knapp-Hartung modification

-----
ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster2_Reg |  -.0712297   .0816285    -0.87   0.386   - .2344559   .0919965
   _cons |   .2329335   .0374624     6.22   0.000    .1580229   .3078441
-----
.

. *Model Rev_PA_U1c
.

```

```
. tabulate Rev_Cluster3_FM if Target_Beh==4
```

Cluster3:				
Feedback &				
Monitoring				
-				
Controlling				
for				
comparator				
use		Freq.	Percent	Cum.
-----+-----				
0		30	47.62	47.62
1		33	52.38	100.00
-----+-----				
Total		63	100.00	

```
.
. metareg ES Rev_Cluster3_FM if Target_Beh==4, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	63
REML estimate of between-study variance	tau2	=	.04563
% residual variation due to heterogeneity	I-squared_res	=	82.85%
Proportion of between-study variance explained	Adj R-squared	=	3.00%

With Knapp-Hartung modification

-----+-----						
ES		Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----						
Rev_Cluster3_FM		-.095104	.0659682	-1.44	0.155	-.2270156 .0368075
_cons		.2669652	.0474123	5.63	0.000	.1721585 .361772
-----+-----						

```
.
. *Model Rev_PA_U1d
.
```

```
. tabulate Rev_Cluster4_Asc if Target_Beh==4
```

```
Cluster4: |
Association |
s - |
Controlling |
for |
comparator |
use | Freq. Percent Cum.
-----+-----
0 | 58 92.06 92.06
1 | 5 7.94 100.00
-----+-----
Total | 63 100.00
```

```
.
. metareg ES Rev_Cluster4_Asc if Target_Beh==4, wsse(_SE) knapphartung reml
```

```
Meta-regression Number of obs = 63
REML estimate of between-study variance tau2 = .04802
% residual variation due to heterogeneity I-squared_res = 84.09%
Proportion of between-study variance explained Adj R-squared = -2.10%
With Knapp-Hartung modification
-----+-----
ES | Coef. Std. Err. t P>|t| [95% Conf. Interval]
-----+-----
Rev_Cluster4_Asc | .0257395 .1316966 0.20 0.846 -.2376042 .2890831
_cons | .2162164 .0348198 6.21 0.000 .1465898 .2858429
-----+-----
```

```
.
. *Model Rev_PA_Ule
.
. tabulate Rev_Cluster5_RS if Target_Beh==4
```

```

Cluster5: |
Repetition |
and |
Substitutio |
ns - |
Controlling |
for |
comparator |
use | Freq. Percent Cum.
-----+-----
0 | 44 69.84 69.84
1 | 19 30.16 100.00
-----+-----
Total | 63 100.00

.

. metareg ES Rev_Cluster5_RS if Target_Beh==4, wsse(_SE) knapphartung reml

```

```

Meta-regression          Number of obs =      63
REML estimate of between-study variance      tau2          =   .03801
% residual variation due to heterogeneity     I-squared_res   =  78.52%
Proportion of between-study variance explained  Adj R-squared    =  19.19%
With Knapp-Hartung modification

```

```

-----+-----
ES | Coef. Std. Err. t P>|t| [95% Conf. Interval]
-----+-----
Rev_Cluster5_RS | .1919188 .0674677 2.84 0.006 .0570088 .3268288
_cons | .1596788 .0369474 4.32 0.000 .0857978 .2335597
-----+-----

```

```

.
. *Model Rev_PA_U1f
.

```

```
. tabulate Rev_Cluster6_Ant if Target_Beh==4
```

```
Cluster6: |
```

```
Antecedents |
```

```
- |
```

```
Controlling |
```

```
for |
```

```
comparator |
```

```
use | Freq. Percent Cum.
```

```
-----+-----
```

```
0 | 42 66.67 66.67
```

```
1 | 21 33.33 100.00
```

```
-----+-----
```

```
Total | 63 100.00
```

```
.
```

```
. metareg ES Rev_Cluster6_Ant if Target_Beh==4, wsse(_SE) knapphartung reml
```

```
Meta-regression Number of obs = 63
```

```
REML estimate of between-study variance tau2 = .04635
```

```
% residual variation due to heterogeneity I-squared_res = 82.46%
```

```
Proportion of between-study variance explained Adj R-squared = 1.46%
```

```
With Knapp-Hartung modification
```

```
-----
```

```
ES | Coef. Std. Err. t P>|t| [95% Conf. Interval]
```

```
-----+-----
```

```
Rev_Cluster6_Ant | .0783095 .0704545 1.11 0.271 -.0625731 .219192
```

```
_cons | .1919767 .0405311 4.74 0.000 .1109297 .2730237
```

```
-----
```

```
.
```

```
. *Model Rev_PA_Ulg
```

```
.
```

```
. tabulate Rev_Cluster7_SK if Target_Beh==4
```

```

Cluster7: |
  Shaping |
Knowledge - |
Controlling |
  for |
comparator |
  use |      Freq.      Percent      Cum.
-----+-----
      0 |         41        65.08        65.08
      1 |         22        34.92       100.00
-----+-----
    Total |         63       100.00

.

. metareg ES  Rev_Cluster7_SK                if Target_Beh==4, wsse(_SE) knapphartung reml

Meta-regression                                Number of obs =         63
REML estimate of between-study variance          tau2              =    .04776
% residual variation due to heterogeneity        I-squared_res      =   83.56%
Proportion of between-study variance explained  Adj R-squared      =   -1.53%
With Knapp-Hartung modification

-----+-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster7_SK |  -.0347416   .0701757    -0.50   0.622   - .1750667   .1055834
      _cons |   .2302219   .0416288     5.53   0.000    .1469799   .3134638
-----+-----

.

. *Model Rev_PA_Ulh

.

. tabulate  Rev_Cluster8_SB                if Target_Beh==4

```

```

Cluster8: |
Self-belief |
- |
Controlling |
for |
comparator |
use |      Freq.      Percent      Cum.
-----+-----
0 |          61        96.83        96.83
1 |           2         3.17       100.00
-----+-----
Total |          63       100.00

.
.
. *Model Rev_PA_Uli
.
. tabulate  Rev_Cluster9_SC              if Target_Beh==4

```

```

Cluster9: |
Scheduled |
Consequence |
s - |
Controlling |
for |
comparator |
use |      Freq.      Percent      Cum.
-----+-----
0 |          63       100.00       100.00
-----+-----
Total |          63       100.00

```

```

.
.

```

```

. *Model Rev_PA_Ulj
.
. tabulate Rev_Cluster10_RT          if Target_Beh==4

Cluster10: |
  Reward & |
  Threat - |
Controlling |
  for |
comparator |
  use |      Freq.      Percent      Cum.
-----+-----
      0 |          59      93.65      93.65
      1 |           4       6.35     100.00
-----+-----
Total   |          63     100.00

.

. metareg ES Rev_Cluster10_RT      if Target_Beh==4, wsse(_SE) knapphartung reml

Meta-regression                                Number of obs =      63
REML estimate of between-study variance          tau2              =   .04793
% residual variation due to heterogeneity         I-squared_res     =  84.00%
Proportion of between-study variance explained    Adj R-squared     = -1.91%
With Knapp-Hartung modification

-----+-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster10_RT |   -.044067   .1269876    -0.35   0.730    -.2979945    .2098605
      _cons |    .221338   .034902     6.34   0.000     .1515472    .2911288
-----+-----

.

. *Model Rev_PA_Ulk

```

```

.
. tabulate Rev_Cluster11_GP          if Target_Beh==4

Cluster11: |
    Goals & |
    Planning - |
Controlling |
    for |
comparator |
    use |      Freq.      Percent      Cum.
-----+-----
      0 |          6       9.52       9.52
      1 |         57      90.48      100.00
-----+-----
    Total |          63     100.00

.

. metareg ES  Rev_Cluster11_GP      if Target_Beh==4, wsse(_SE) knapphartung reml

Meta-regression                                Number of obs =         63
REML estimate of between-study variance          tau2              =    .04784
% residual variation due to heterogeneity         I-squared_res      =   84.13%
Proportion of between-study variance explained    Adj R-squared      =   -1.71%
With Knapp-Hartung modification

-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_Cluster11_GP |  -.0183709   .1284006    -0.14   0.887    -.2751237    .2383819
      _cons |   .2350207   .123583     1.90   0.062    -.0120987    .4821401
-----

.

. *Model Rev_PA_U11
.

```

```
. tabulate Rev_Cluster12_CO if Target_Beh==4
```

```
Cluster12: |
```

```
Comparison |
```

```
of Outcomes |
```

```
- |
```

```
Controlling |
```

```
for |
```

```
comparator |
```

```
use | Freq. Percent Cum.
```

```
-----+-----
```

```
0 | 51 80.95 80.95
```

```
1 | 12 19.05 100.00
```

```
-----+-----
```

```
Total | 63 100.00
```

```
.
```

```
. metareg ES Rev_Cluster12_CO if Target_Beh==4, wsse(_SE) knapphartung reml
```

```
Meta-regression Number of obs = 63
```

```
REML estimate of between-study variance tau2 = .04602
```

```
% residual variation due to heterogeneity I-squared_res = 84.09%
```

```
Proportion of between-study variance explained Adj R-squared = 2.16%
```

```
With Knapp-Hartung modification
```

```
-----+-----
```

```
ES | Coef. Std. Err. t P>|t| [95% Conf. Interval]
```

```
-----+-----
```

```
Rev_Cluster12_CO | .1317791 .0822561 1.60 0.114 -.0327022 .2962604
```

```
_cons | .1911569 .0370336 5.16 0.000 .1171036 .2652101
```

```
-----+-----
```

```
.
```

```
. *Model Rev_PA_U1m
```

```
.
```

```
. tabulate Rev_Cluster13_Id if Target_Beh==4
```

```
Cluster13: |
```

```
Identity - |
```

```
Controlling |
```

```
for |
```

```
comparator |
```

```
use | Freq. Percent Cum.
```

```
-----+-----
```

```
0 | 62 98.41 98.41
```

```
1 | 1 1.59 100.00
```

```
-----+-----
```

```
Total | 63 100.00
```

```
.
```

```
.
```

```
. *Model Rev_PA_Uln
```

```
.
```

```
. tabulate Rev_Cluster14_NC if Target_Beh==4
```

```
Cluster14: |
```

```
Natural |
```

```
Consequence |
```

```
s - |
```

```
Controlling |
```

```
for |
```

```
comparator |
```

```
use | Freq. Percent Cum.
```

```
-----+-----
```

```
0 | 51 80.95 80.95
```

```
1 | 12 19.05 100.00
```

```
-----+-----
```

```
Total | 63 100.00
```

```
.
. metareg ES Rev_Cluster14_NC if Target_Beh==4, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      63
REML estimate of between-study variance          tau2              =   .04806
% residual variation due to heterogeneity         I-squared_res     =  83.84%
Proportion of between-study variance explained    Adj R-squared     =  -2.17%
With Knapp-Hartung modification
```

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_Cluster14_NC	.0201049	.0841351	0.24	0.812	-.1481336	.1883434
_cons	.2140177	.0375296	5.70	0.000	.1389726	.2890628
-----+-----						

```
.
. *Model Rev_PA_Ulo
.
. tabulate Rev_Cluster15_CB if Target_Beh==4
```

Cluster15:			
Comparison			
of			
Behaviour -			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
-----+-----			
0	54	85.71	85.71
1	9	14.29	100.00
-----+-----			
Total	63	100.00	

```
.
. metareg ES Rev_Cluster15_CB if Target_Beh==4, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      63
REML estimate of between-study variance          tau2              =   .04757
% residual variation due to heterogeneity        I-squared_res     =  83.73%
Proportion of between-study variance explained   Adj R-squared     =  -1.13%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_Cluster15_CB	-.0456556	.0932675	-0.49	0.626	-.2321554	.1408442
_cons	.2249121	.0363357	6.19	0.000	.1522544	.2975697

```
.
. *Model Rev_PA_Ulp
.
. tabulate Rev_Cluster16_CL if Target_Beh==4
```

Cluster16:			
Covert			
Learning -			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
-----+-----			
0	63	100.00	100.00
-----+-----			
Total	63	100.00	

```
..
```

Meta-regression of Intervention function

```
. *Model Rev_PA_U2a
```

```
.
```

```
. tabulate Rev_iif1 if Target_Beh==4
```

Rev_iif1	Freq.	Percent	Cum.
-----+-----			
0	27	42.86	42.86
1	36	57.14	100.00
-----+-----			
Total	63	100.00	

```
.
```

```
. metareg ES Rev_iif1 if Target_Beh==4, wsse(_SE) knapphartung reml
```

```
Meta-regression                      Number of obs =      63
REML estimate of between-study variance      tau2          =   .04787
% residual variation due to heterogeneity     I-squared_res   =  83.69%
Proportion of between-study variance explained  Adj R-squared   =  -1.76%
With Knapp-Hartung modification
```

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_iif1	.0139292	.0679949	0.20	0.838	-.122035	.1498934
_cons	.2099021	.0518578	4.05	0.000	.1062061	.3135982

```
.
```

```
. *Model Rev_PA_U2b
```

```
.
```

```
. tabulate Rev_iif2 if Target_Beh==4
```

Rev_iif2	Freq.	Percent	Cum.
-----+-----			
0	53	84.13	84.13

1	10	15.87	100.00
---	----	-------	--------

-----+-----

Total	63	100.00
-------	----	--------

.

```
. metareg ES Rev_iif2 if Target_Beh==4, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	63
REML estimate of between-study variance	tau2 =	.04753
% residual variation due to heterogeneity	I-squared_res =	83.67%
Proportion of between-study variance explained	Adj R-squared =	-1.04%

With Knapp-Hartung modification

-----+-----

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
----	-------	-----------	---	------	----------------------

-----+-----

Rev_iif2	-.0547232	.0871524	-0.63	0.532	-.2289952 .1195488
----------	-----------	----------	-------	-------	--------------------

_cons	.2278083	.0369353	6.17	0.000	.1539516 .3016649
-------	----------	----------	------	-------	-------------------

-----+-----

.

```
. *Model Rev_PA_U2c
```

.

```
. tabulate Rev_iif3 if Target_Beh==4
```

Rev_iif3	Freq.	Percent	Cum.
----------	-------	---------	------

-----+-----

0	57	90.48	90.48
---	----	-------	-------

1	6	9.52	100.00
---	---	------	--------

-----+-----

Total	63	100.00
-------	----	--------

.

```
. metareg ES Rev_iif3 if Target_Beh==4, wsse(_SE) knapphartung reml
```

```

Meta-regression                                Number of obs =      63
REML estimate of between-study variance         tau2           =   .04778
% residual variation due to heterogeneity       I-squared_res  =  83.98%
Proportion of between-study variance explained  Adj R-squared  =  -1.58%
With Knapp-Hartung modification

```

```

-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
    Rev_iif3 |   -.0528739   .1087849    -0.49   0.629    - .2704027    .164655
      _cons |    .223614   .0354541     6.31   0.000     .1527191    .2945089
-----

```

```

.
. *Model Rev_PA_U2d
.
. tabulate Rev_iif4                                if Target_Beh==4

```

```

      Rev_iif4 |      Freq.   Percent      Cum.
-----+-----
          0 |         63    100.00    100.00
-----+-----
      Total |         63    100.00

```

```

.
.
. *Model Rev_PA_U2e
.
. tabulate Rev_iif5                                if Target_Beh==4

```

```

      Rev_iif5 |      Freq.   Percent      Cum.
-----+-----
          0 |        32     50.79     50.79
          1 |        31     49.21    100.00
-----+-----

```

Total | 63 100.00

.

. metareg ES Rev_iif5 if Target_Beh==4, wsse(_SE) knapphartung reml

Meta-regression Number of obs = 63
 REML estimate of between-study variance tau2 = .04799
 % residual variation due to heterogeneity I-squared_res = 83.61%
 Proportion of between-study variance explained Adj R-squared = -2.03%
 With Knapp-Hartung modification

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_iif5	-.0049644	.0671511	-0.07	0.941	-.1392413	.1293125
_cons	.220525	.0477617	4.62	0.000	.1250195	.3160304

.

. *Model Rev_PA_U2f

.

. tabulate Rev_iif6 if Target_Beh==4

Rev_iif6	Freq.	Percent	Cum.
-----+-----			
0	63	100.00	100.00
-----+-----			
Total	63	100.00	

.

.

. *Model Rev_PA_U2g

.

. tabulate Rev_iif7 if Target_Beh==4

Rev_iif7	Freq.	Percent	Cum.
0	50	79.37	79.37
1	13	20.63	100.00
Total	63	100.00	

.

```
. metareg ES Rev_iif7                                if Target_Beh==4, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      63
REML estimate of between-study variance          tau2              =   .04335
% residual variation due to heterogeneity         I-squared_res     =  81.37%
Proportion of between-study variance explained    Adj R-squared     =   7.84%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_iif7	.1723255	.0795511	2.17	0.034	.0132533	.3313976
_cons	.1815763	.0364049	4.99	0.000	.1087802	.2543723

.

```
. *Model Rev_PA_U2h
```

.

```
. tabulate Rev_iif8                                if Target_Beh==4
```

Rev_iif8	Freq.	Percent	Cum.
0	60	95.24	95.24
1	3	4.76	100.00
Total	63	100.00	

```
.
. metareg ES Rev_iif8                                if Target_Beh==4, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      63
REML estimate of between-study variance        tau2              =   .04793
% residual variation due to heterogeneity      I-squared_res     =  84.09%
Proportion of between-study variance explained Adj R-squared  =  -1.90%
With Knapp-Hartung modification
```

```
-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
  Rev_iif8 |   .0857146   .1513971     0.57   0.573    - .2170227   .3884518
    _cons |   .2135678   .034462     6.20   0.000     .1446567   .2824789
-----
```

```
.
.
. *Model Rev_PA_U2i
.
. tabulate Rev_iif9                                if Target_Beh==4
```

```
Rev_iif9 |      Freq.   Percent      Cum.
-----+-----
      0 |         11     17.46     17.46
      1 |         52     82.54    100.00
-----+-----
    Total |         63    100.00
```

```
.
. metareg ES Rev_iif9                                if Target_Beh==4, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      63
REML estimate of between-study variance        tau2              =   .04694
% residual variation due to heterogeneity      I-squared_res     =  84.00%
```

Proportion of between-study variance explained Adj R-squared = 0.20%

With Knapp-Hartung modification

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_iif9	-.0874393	.092665	-0.94	0.349	-.2727343	.0978558
_cons	.2920499	.0853119	3.42	0.001	.1214582	.4626415

Meta-regression of Theory-basedness

```
. *Model PA_U3
.
. tabulate itb                                if Target_Beh==4

      ITB |      Freq.      Percent      Cum.
-----+-----
      No |         34        53.97        53.97
      Yes |         29        46.03       100.00
-----+-----
    Total |         63       100.00

.
. metareg ES  itb                                if Target_Beh==4, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =         63
REML estimate of between-study variance          tau2              =    .04768
% residual variation due to heterogeneity        I-squared_res       =   83.84%
Proportion of between-study variance explained   Adj R-squared       =   -1.36%
With Knapp-Hartung modification
```

```
-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
      itb |   -.020661   .0685599    -0.30   0.764    -.1577551    .116433
    _cons |    .22612   .0430054     5.26   0.000     .1401253    .3121146
-----
```

Revised multivariate analyses

SEXUAL HEALTH

Model SXH_M1: controlling for control group BCT use and theory-basedness

Forward stepwise approach: Step 1

Empty model

```
. *Model SXH_M1
. *Forward stepwise approach: Step 1
```

```
. metareg ES if Target_Beh==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs   =      15
REML estimate of between-study variance         tau2            =   .01675
% residual variation due to heterogeneity        I-squared_res   =  45.91%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
_cons	.1454386	.0512063	2.84	0.013	.0356119	.2552652

```
.
```

Forward stepwise approach: Step 2
No variables to add (because no variables explained any between-study variance).

ALCOHOL

Model ALC_M1: controlling for control group BCT use and theory-basedness

Forward stepwise approach: Step 1

Empty model

```
. metareg ES if Target_Beh==2, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      50
REML estimate of between-study variance         tau2              = .006648
% residual variation due to heterogeneity       I-squared_res    = 24.72%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
_cons	.1131187	.0257518	4.39	0.000	.0613684	.1648689

Forward stepwise approach: Step 2

Add Rev_Cluster8 (in univariate model, adjusted R-sq=32.52%)

```
. metareg ES Rev_Cluster8_SB itb if Target_Beh==2, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      50
REML estimate of between-study variance         tau2              = .005059
% residual variation due to heterogeneity       I-squared_res    = 19.64%
Proportion of between-study variance explained Adj R-squared    = 23.90%
Joint test for all covariates                  Model F(2,47)    =    1.28
With Knapp-Hartung modification                Prob > F          = 0.2865
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_Cluster8_SB	-.0929236	.0606907	-1.53	0.132	-.2150175	.0291703
itb	.0136772	.080297	0.17	0.865	-.1478596	.1752139
_cons	.1293714	.0305673	4.23	0.000	.067878	.1908649

Forward stepwise approach: Step 3

Add Rev_Cluster3 (in univariate model, adjusted R-sq=28.33%)

```
. metareg ES Rev_Cluster8_SB Rev_Cluster3_FM itb if Target_Beh==2, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	50
REML estimate of between-study variance	tau2	=	.005745
% residual variation due to heterogeneity	I-squared_res	=	18.40%
Proportion of between-study variance explained	Adj R-squared	=	13.58%
Joint test for all covariates	Model F(3,46)	=	1.59
With Knapp-Hartung modification	Prob > F	=	0.2042

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_Cluster8_SB	-.0182243	.0785446	-0.23	0.818	-.1763264	.1398779
Rev_Cluster3_FM	.0999172	.0654394	1.53	0.134	-.0318055	.23164
itb	.0207003	.080699	0.26	0.799	-.1417383	.183139
_cons	.0528756	.059225	0.89	0.377	-.0663382	.1720894

Forward stepwise approach: Step 4

Remove Rev_Cluster8; add IF2: Persuasion (in univariate model, adjusted R-sq=13.75%)

```
. metareg ES Rev_Cluster3_FM Rev_iif2 itb if Target_Beh==2, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	50
REML estimate of between-study variance	tau2	=	0
% residual variation due to heterogeneity	I-squared_res	=	11.09%
Proportion of between-study variance explained	Adj R-squared	=	100.00%
Joint test for all covariates	Model F(3,46)	=	3.96
With Knapp-Hartung modification	Prob > F	=	0.0136

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_Cluster3_FM	.1208483	.0419931	2.88	0.006	.0363207	.205376
Rev_iif2	-.0880264	.0417091	-2.11	0.040	-.1719825	-.0040702
itb	.0299159	.073076	0.41	0.684	-.1171785	.1770102

_cons		.0628906	.0358899	1.75	0.086	-.0093521	.1351333
-------	--	----------	----------	------	-------	-----------	----------

Forward stepwise approach: Step 5

Add Rev_Cluster11 (in univariate model, adjusted R-sq=3.32%)

```
. metareg ES Rev_Cluster3_FM Rev_iif2 Rev_Cluster11_GP itb if Target_Beh==2, wsse(_SE)
knapphartung reml
```

Meta-regression	Number of obs	=	50
REML estimate of between-study variance	tau2	=	.001076
% residual variation due to heterogeneity	I-squared_res	=	11.47%
Proportion of between-study variance explained	Adj R-squared	=	83.82%
Joint test for all covariates	Model F(4,45)	=	2.66
With Knapp-Hartung modification	Prob > F	=	0.0449

ES		Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_Cluster3_FM		.1227478	.0448932	2.73	0.009	.0323283 .2131673
Rev_iif2		-.0712201	.0464716	-1.53	0.132	-.1648186 .0223785
Rev_Cluster11_GP		-.0415904	.0459954	-0.90	0.371	-.1342299 .0510492
itb		.0209602	.0744111	0.28	0.779	-.1289115 .170832
_cons		.0789699	.0415639	1.90	0.064	-.004744 .1626838

Forward stepwise approach: Step 6

Remove Rev_Cluster11; Add Rev_Cluster5 (in univariate model, adjusted R-sq=1.54%)

```
. metareg ES Rev_Cluster3_FM Rev_iif2 Rev_Cluster5_RS itb if Target_Beh==2, wsse(_SE)
knapphartung reml
```

numerical derivatives are approximate

nearby values are missing

numerical derivatives are approximate

nearby values are missing

numerical derivatives are approximate

nearby values are missing

numerical derivatives are approximate

nearby values are missing

numerical derivatives are approximate
nearby values are missing
numerical derivatives are approximate
nearby values are missing

Meta-regression	Number of obs	=	50
REML estimate of between-study variance	tau2	=	0
% residual variation due to heterogeneity	I-squared_res	=	8.89%
Proportion of between-study variance explained	Adj R-squared	=	100.00%
Joint test for all covariates	Model F(4,45)	=	3.58
With Knapp-Hartung modification	Prob > F	=	0.0129

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_Cluster3_FM	.1215433	.0414862	2.93	0.005	.0379858	.2051007
Rev_iif2	-.0986707	.0418414	-2.36	0.023	-.1829435	-.0143978
Rev_Cluster5_RS	.1805041	.1234722	1.46	0.151	-.0681815	.4291898
itb	.0348829	.0722691	0.48	0.632	-.1106745	.1804403
_cons	.0620606	.0354589	1.75	0.087	-.0093573	.1334786

Forward stepwise approach: Final Step

Remove Rev_Cluster5 because insufficient data (see tabulations below)

```
. metareg ES Rev_Cluster3_FM Rev_iif2 itb if Target_Beh==2, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	50
REML estimate of between-study variance	tau2	=	0
% residual variation due to heterogeneity	I-squared_res	=	11.09%
Proportion of between-study variance explained	Adj R-squared	=	100.00%
Joint test for all covariates	Model F(3,46)	=	3.96
With Knapp-Hartung modification	Prob > F	=	0.0136

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_Cluster3_FM	.1208483	.0419931	2.88	0.006	.0363207	.205376
Rev_iif2	-.0880264	.0417091	-2.11	0.040	-.1719825	-.0040702

itb	.0299159	.073076	0.41	0.684	-.1171785	.1770102
_cons	.0628906	.0358899	1.75	0.086	-.0093521	.1351333

Tabulations

-> tabulation of Rev_Cluster3_FM by Rev_iif2 if Target_Beh==2

Cluster3:			
Feedback &			
Monitoring			
-			
Controllin			
g for			
comparator	Rev_iif2		
use	0	1	Total
-----+-----+-----			
0	12	3	15
1	17	18	35
-----+-----+-----			
Total	29	21	50

-> tabulation of Rev_Cluster3_FM by Rev_Cluster5_RS if Target_Beh==2

Cluster3:			
Feedback &			
Monitoring			
-	Cluster5: Repetition		
Controllin	and Substitutions -		
g for	Controlling for		
comparator	comparator use		
use	0	1	Total
-----+-----+-----			
0	14	1	15

1	33	2	35
-----+-----+-----			
Total	47	3	50

-> tabulation of Rev_Cluster3_FM by itb if Target_Beh==2

Cluster3:			
Feedback &			
Monitoring			
-			
Controllin			
g for			
comparator	ITB		
use	No	Yes	Total
-----+-----+-----			
0	14	1	15
1	30	5	35
-----+-----+-----			
Total	44	6	50

-> tabulation of Rev_iif2 by Rev_Cluster5_RS if Target_Beh==2

	Cluster5: Repetition		
	and Substitutions -		
	Controlling for		
	comparator use		
Rev_iif2	0	1	Total
-----+-----+-----			
0	29	0	29
1	18	3	21
-----+-----+-----			
Total	47	3	50

-> tabulation of Rev_iif2 by itb if Target_Beh==2

Rev_iif2	ITB		Total
	No	Yes	
0	25	4	29
1	19	2	21
Total	44	6	50

-> tabulation of Rev_Cluster5_RS by itb if Target_Beh==2

Cluster5:			
Repetition			
and			
Substitut			
ions -			
Controllin			
g for			
comparator	ITB		
use	No	Yes	Total
0	41	6	47
1	3	0	3
Total	44	6	50

Model ALC_M1: controlling for control group BCT use and theory-basedness (Long-term FU only)

. tabulate FU_Cat if Target_Beh==2

FU Category	Freq.	Percent	Cum.
-------------	-------	---------	------

-----+-----			
Short	27	54.00	54.00
Long	23	46.00	100.00
-----+-----			
Total	50	100.00	

Forward stepwise approach: Step 1

Empty model

```
.
. *Forward stepwise approach: Step 1
. metareg ES if Target_Beh==2 & FU_Cat==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                      Number of obs =      23
REML estimate of between-study variance      tau2          = .002768
% residual variation due to heterogeneity     I-squared_res   = 10.15%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
_cons	.0581953	.0271456	2.14	0.043	.0018987	.1144918

```
.
.
```

Forward stepwise approach: Final Step

```
. metareg ES Rev_Cluster3_FM Rev_iif2 itb if Target_Beh==2 & FU_Cat==1, wsse(_SE) knapphartung reml
```

numerical derivatives are approximate

nearby values are missing

numerical derivatives are approximate

nearby values are missing

numerical derivatives are approximate

nearby values are missing

numerical derivatives are approximate

nearby values are missing

Meta-regression	Number of obs	=	23
REML estimate of between-study variance	tau2	=	0
% residual variation due to heterogeneity	I-squared_res	=	0.00%
Proportion of between-study variance explained	Adj R-squared	=	100.00%
Joint test for all covariates	Model F(3,19)	=	3.15
With Knapp-Hartung modification	Prob > F	=	0.0489

	ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_Cluster3_FM		.1080251	.0454107	2.38	0.028	.0129793 .2030708
Rev_iif2		-.092808	.0456231	-2.03	0.056	-.1882984 .0026823
itb		.0882682	.0905297	0.98	0.342	-.1012128 .2777491
_cons		.0389308	.0393843	0.99	0.335	-.0435016 .1213632

SMOKING

Model SMK_M1: controlling for control group BCT use and theory-basedness

Forward stepwise approach: Step 1

Empty model

```
. metareg ES if Target_Beh==3, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      80
REML estimate of between-study variance          tau2              =   .03988
% residual variation due to heterogeneity         I-squared_res     =  68.06%

With Knapp-Hartung modification
```

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
_cons	.2810698	.0337618	8.33	0.000	.2138685	.348271

Forward stepwise approach: Step 2

Add Rev_Cluster1: Social Support (in univariate model, adjusted R-sq= 12.17%)

```
. metareg ES Rev_Cluster1_SS itb if Target_Beh==3, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      80
REML estimate of between-study variance          tau2              =   .03368
% residual variation due to heterogeneity         I-squared_res     =  62.04%
Proportion of between-study variance explained    Adj R-squared     =  15.55%
Joint test for all covariates                    Model F(2,77)     =    2.92
With Knapp-Hartung modification                  Prob > F           =   0.0601
```

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_Cluster1_SS	.1149434	.0711713	1.62	0.110	-.0267768	.2566636
itb	-.0890835	.0809849	-1.10	0.275	-.2503451	.0721781
_cons	.2293746	.0631368	3.63	0.001	.1036531	.3550961

Forward stepwise approach: Step 3

Add Rev_Cluster2: Regulation (in univariate model, adjusted R-sq=6.12%)

```
. metareg ES Rev_Cluster1_SS Rev_Cluster2_Reg itb if Target_Beh==3, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	80
REML estimate of between-study variance	tau2	=	.0331
% residual variation due to heterogeneity	I-squared_res	=	59.38%
Proportion of between-study variance explained	Adj R-squared	=	16.99%
Joint test for all covariates	Model F(3,76)	=	2.30
With Knapp-Hartung modification	Prob > F	=	0.0837

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_Cluster1_SS	.092852	.0743044	1.25	0.215	-.055138 .2408421
Rev_Cluster2_Reg	.0673535	.0677483	0.99	0.323	-.0675789 .2022859
itb	-.0897785	.080646	-1.11	0.269	-.250399 .0708419
_cons	.2110208	.0654701	3.22	0.002	.0806257 .3414159

Forward stepwise approach: Step 4

Add Rev_iif7: Environmental Restructuring (in univariate model, adjusted R-sq=4.56%)

```
. metareg ES Rev_Cluster1_SS Rev_Cluster2_Reg Rev_iif7 itb if Target_Beh==3, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	80
REML estimate of between-study variance	tau2	=	.03303
% residual variation due to heterogeneity	I-squared_res	=	55.96%
Proportion of between-study variance explained	Adj R-squared	=	17.18%
Joint test for all covariates	Model F(4,75)	=	1.81
With Knapp-Hartung modification	Prob > F	=	0.1350

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_Cluster1_SS	.0863228	.0751208	1.15	0.254	-.0633255 .2359711
Rev_Cluster2_Reg	.0620484	.0683348	0.91	0.367	-.0740814 .1981782
Rev_iif7	.0475585	.0824318	0.58	0.566	-.116654 .211771

itb	-.0879165	.08067	-1.09	0.279	-.2486194	.0727863
_cons	.2074514	.0657187	3.16	0.002	.0765331	.3383698

Forward stepwise approach: Final Step

Add Rev_Cluster11 (adj R-sq=2.62%)

```
. metareg ES Rev_Cluster1_SS Rev_Cluster2_Reg Rev_iif7 Rev_Cluster11_GP itb if Target_Beh==3,
wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	80
REML estimate of between-study variance	tau2 =	.02622
% residual variation due to heterogeneity	I-squared_res =	44.98%
Proportion of between-study variance explained	Adj R-squared =	34.26%
Joint test for all covariates	Model F(5,74) =	2.63
With Knapp-Hartung modification	Prob > F =	0.0306

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_Cluster1_SS	.1183414	.0727628	1.63	0.108	-.0266417 .2633245
Rev_Cluster2_Reg	.0925354	.065736	1.41	0.163	-.0384463 .2235171
Rev_iif7	.0557341	.0769762	0.72	0.471	-.0976443 .2091126
Rev_Cluster11_GP	-.1366094	.0665985	-2.05	0.044	-.2693098 -.003909
itb	-.0705121	.0772364	-0.91	0.364	-.224409 .0833848
_cons	.2506582	.0660744	3.79	0.000	.119002 .3823143

No further variables to add or remove.

Tabulations

```
. tab2 Rev_Cluster1_SS Rev_Cluster2_Reg Rev_iif7 Rev_Cluster11_GP itb if Target_Beh==3
```

-> tabulation of Rev_Cluster1_SS by Rev_Cluster2_Reg if Target_Beh==3

Cluster1: |

Social |

Support - |

Controllin | Cluster2: Regulation

g for	- Controlling for		
comparator	comparator use		
use	0	1	Total
-----+-----+-----			
0	22	7	29
1	20	31	51
-----+-----+-----			
Total	42	38	80

-> tabulation of Rev_Cluster1_SS by Rev_iif7 if Target_Beh==3

Cluster1:			
Social			
Support -			
Controllin			
g for			
comparator	Rev_iif7		
use	0	1	Total
-----+-----+-----			
0	27	2	29
1	39	12	51
-----+-----+-----			
Total	66	14	80

-> tabulation of Rev_Cluster1_SS by Rev_Cluster11_GP if Target_Beh==3

Cluster1:			
Social			
Support -	Cluster11: Goals &		
Controllin	Planning -		
g for	Controlling for		

comparator		comparator use	
use		0	1 Total
0		14	15 29
1		16	35 51
Total		30	50 80

-> tabulation of Rev_Cluster1_SS by itb if Target_Beh==3

Cluster1:			
Social			
Support -			
Controllin			
g for			
comparator		ITB	
use		No	Yes Total
0		16	13 29
1		43	8 51
Total		59	21 80

-> tabulation of Rev_Cluster2_Reg by Rev_iif7 if Target_Beh==3

Cluster2:			
Regulation			
-			
Controllin			
g for			
comparator		Rev_iif7	
use		0	1 Total

-----+-----+-----			
0	39	3	42
1	27	11	38
-----+-----+-----			
Total	66	14	80

-> tabulation of Rev_Cluster2_Reg by Rev_Cluster11_GP if Target_Beh==3

Cluster2:			
Regulation			
-	Cluster11: Goals &		
Controllin	Planning -		
g for	Controlling for		
comparator	comparator use		
use	0	1	Total
-----+-----+-----			
0	20	22	42
1	10	28	38
-----+-----+-----			
Total	30	50	80

-> tabulation of Rev_Cluster2_Reg by itb if Target_Beh==3

Cluster2:			
Regulation			
-			
Controllin			
g for			
comparator	ITB		
use	No	Yes	Total
-----+-----+-----			
0	29	13	42

1		30	8		38
-----+-----+-----					
Total		59	21		80

-> tabulation of Rev_iif7 by Rev_Cluster11_GP if Target_Beh==3

		Cluster11: Goals &			
		Planning -			
		Controlling for			
		comparator use			
Rev_iif7		0	1		Total
-----+-----+-----					
0		25	41		66
1		5	9		14
-----+-----+-----					
Total		30	50		80

-> tabulation of Rev_iif7 by itb if Target_Beh==3

		ITB			
Rev_iif7		No	Yes		Total
-----+-----+-----					
0		48	18		66
1		11	3		14
-----+-----+-----					
Total		59	21		80

-> tabulation of Rev_Cluster11_GP by itb if Target_Beh==3

Cluster11: |
Goals & |

Planning -			
Controllin			
g for			
comparator	ITB		
use	No	Yes	Total
-----+-----+-----			
0	24	6	30
1	35	15	50
-----+-----+-----			
Total	59	21	80

Model SMK_M1: controlling for control group BCT/IF use and theory-basedness (Long-term FU only)

```
. tabulate FU_Cat if Target_Beh==3
```

FU Category	Freq.	Percent	Cum.
-----+-----			
Short	50	62.50	62.50
Long	30	37.50	100.00
-----+-----			
Total	80	100.00	

```
.
Forward stepwise approach: Step 1
. metareg ES if Target_Beh==3 & FU_Cat==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      30
REML estimate of between-study variance         tau2              =   .05244
% residual variation due to heterogeneity        I-squared_res     =  79.35%
```

With Knapp-Hartung modification

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
_cons	.2466204	.0601454	4.10	0.000	.1236092	.3696316

Forward stepwise approach: Final Step

```
. metareg ES Rev_Cluster1_SS Rev_Cluster2_Reg Rev_iif7 Rev_Cluster11_GP itb if Target_Beh==3 &
FU_Cat==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	30
REML estimate of between-study variance	tau2	=	.03089
% residual variation due to heterogeneity	I-squared_res	=	39.81%
Proportion of between-study variance explained	Adj R-squared	=	41.09%
Joint test for all covariates	Model F(5,24)	=	2.28
With Knapp-Hartung modification	Prob > F	=	0.0789

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_Cluster1_SS	-.1293086	.1861902	-0.69	0.494	-.5135862 .2549691
Rev_Cluster2_Reg	.1043233	.1183233	0.88	0.387	-.139884 .3485306
Rev_iif7	.1331162	.1172489	1.14	0.267	-.1088737 .375106
Rev_Cluster11_GP	-.2309401	.1165561	-1.98	0.059	-.4715002 .00962
itb	-.2157067	.1797763	-1.20	0.242	-.5867468 .1553333
_cons	.4755018	.2200201	2.16	0.041	.0214025 .929601

DIET

Model Diet_M1: controlling for control group cluster/IF use and theory-basedness

Forward stepwise approach: Step 1

Empty model

```
. metareg ES if Target_Beh==5, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	27
REML estimate of between-study variance	tau2	=	.04481
% residual variation due to heterogeneity	I-squared_res	=	76.05%
With Knapp-Hartung modification			

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
_cons	.3275228	.0491847	6.66	0.000	.2264223 .4286234

Forward stepwise approach: Step 2

Add Rev_Cluster12_CO (adj R-sq=14.85%)

```
. metareg ES Rev_Cluster12_CO itb if Target_Beh==5, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	27
REML estimate of between-study variance	tau2	=	.04039
% residual variation due to heterogeneity	I-squared_res	=	77.72%
Proportion of between-study variance explained	Adj R-squared	=	9.87%
Joint test for all covariates	Model F(2,24)	=	2.10
With Knapp-Hartung modification	Prob > F	=	0.1444

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_Cluster12_CO	.2533955	.124269	2.04	0.053	-.0030832 .5098742
itb	-.0233127	.0958802	-0.24	0.810	-.2211996 .1745742
_cons	.2926901	.066094	4.43	0.000	.1562789 .4291014

Forward stepwise approach: Step 3

Add Rev_iif5 (adj R-sq=8.36%)

```
. metareg ES Rev_Cluster12_CO Rev_iif5 itb if Target_Beh==5, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	27
REML estimate of between-study variance	tau2	=	.03673
% residual variation due to heterogeneity	I-squared_res	=	74.50%
Proportion of between-study variance explained	Adj R-squared	=	18.03%
Joint test for all covariates	Model F(3,23)	=	2.26
With Knapp-Hartung modification	Prob > F	=	0.1083

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_Cluster12_CO	.2373918	.1206416	1.97	0.061	-.0121744 .4869581

Rev_iif5	-.1412483	.0928821	-1.52	0.142	-.3333896	.050893
itb	-.0313591	.0930178	-0.34	0.739	-.2237812	.1610629
_cons	.3774875	.0851006	4.44	0.000	.2014436	.5535314

Forward stepwise approach: Step 4

Add Rev_Cluster7_SK (adj R-sq=2.11%)

```
. metareg ES Rev_Cluster12_CO Rev_iif5 Rev_Cluster7_SK itb if Target_Beh==5, wsse(_SE)
knapphartung reml
```

Meta-regression	Number of obs =	27
REML estimate of between-study variance	tau2 =	.03891
% residual variation due to heterogeneity	I-squared_res =	75.58%
Proportion of between-study variance explained	Adj R-squared =	13.17%
Joint test for all covariates	Model F(4,22) =	1.63
With Knapp-Hartung modification	Prob > F =	0.2018

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_Cluster12_CO	.2382906	.1233219	1.93	0.066	-.0174634 .4940445
Rev_iif5	-.1551176	.14614	-1.06	0.300	-.4581935 .1479583
Rev_Cluster7_SK	.0190594	.1474393	0.13	0.898	-.286711 .3248298
itb	-.0344384	.0963587	-0.36	0.724	-.2342741 .1653973
_cons	.3784034	.087073	4.35	0.000	.197825 .5589817

Forward stepwise approach: Final Step

Remove Rev_Cluster7_SK

```
. metareg ES Rev_Cluster12_CO Rev_iif5 itb if Target_Beh==5, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	27
REML estimate of between-study variance	tau2 =	.03673
% residual variation due to heterogeneity	I-squared_res =	74.50%
Proportion of between-study variance explained	Adj R-squared =	18.03%

With Knapp-Hartung modification Prob > F = 0.1083

	ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_Cluster12_CO		.2373918	.1206416	1.97	0.061	-.0121744 .4869581
Rev_iif5		-.1412483	.0928821	-1.52	0.142	-.3333896 .050893
itb		-.0313591	.0930178	-0.34	0.739	-.2237812 .1610629
cons		.3774875	.0851006	4.44	0.000	.2014436 .5535314

```
. tabulate FU Cat if Target Beh==5
```

FU Category	Freq.	Percent	Cum.
-----+			
Short	18	66.67	66.67
Long	9	33.33	100.00
-----+			
Total	27	100.00	

Empty model

```
. metareg ES if Target Beh==5 & FU Cat==1, wsse( SE) knapphartung reml
```

REML estimate of between-study variance tau2 = .01207

% residual variation due to heterogeneity I-squared res = 50.72%

With Knapp-Hartung modification

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
cons	.3347802	.0633407	5.29	0.001	.1887163 .4808442

Forward stepwise approach: Final Step

```
. metareg ES Rev_Cluster12_CO Rev_iif5 itb if Target_Beh==5 & FU_Cat==1, wsse(_SE) knapphartung reml
```

note: Rev_Cluster12_CO dropped because of collinearity

Meta-regression	Number of obs	=	9
REML estimate of between-study variance	tau2	=	.000233
% residual variation due to heterogeneity	I-squared_res	=	26.58%
Proportion of between-study variance explained	Adj R-squared	=	98.07%
Joint test for all covariates	Model F(2,6)	=	2.96
With Knapp-Hartung modification	Prob > F	=	0.1278

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_iif5	-.1883234	.0945765	-1.99	0.094	-.4197438	.043097
itb	-.1098905	.1579619	-0.70	0.513	-.4964094	.2766285
_cons	.4504277	.0650341	6.93	0.000	.291295	.6095603

PHYSICAL ACTIVITY

Model PA_M1: controlling for control group cluster/IF use and theory-basedness

Forward stepwise approach: Step 1

Empty model

```
. metareg ES if Target_Beh==4, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	63
REML estimate of between-study variance	tau2	=	.04704
% residual variation due to heterogeneity	I-squared_res	=	83.87%
With Knapp-Hartung modification			

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
_cons	.2179438	.0333294	6.54	0.000	.1513193	.2845684

Forward stepwise approach: Step 2

Add Rev_Cluster5_RS (adj R-sq=19.19%)

```
. metareg ES Rev_Cluster5_RS itb if Target_Beh==4, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	63
REML estimate of between-study variance	tau2	=	.03874
% residual variation due to heterogeneity	I-squared_res	=	78.84%
Proportion of between-study variance explained	Adj R-squared	=	17.64%
Joint test for all covariates	Model F(2,60)	=	3.98
With Knapp-Hartung modification	Prob > F	=	0.0238

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_Cluster5_RS	.190378	.068091	2.80	0.007	.0541758 .3265802
itb	-.0108988	.0640832	-0.17	0.866	-.1390844 .1172867
_cons	.1643914	.0455364	3.61	0.001	.0733051 .2554778

Forward stepwise approach: Step 3

Add Rev_iif7 (adj R-sq=7.84%)

```
. metareg ES Rev_Cluster5_RS iif7 itb if Target_Beh==4, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	63
REML estimate of between-study variance	tau2	=	.03711
% residual variation due to heterogeneity	I-squared_res	=	78.74%
Proportion of between-study variance explained	Adj R-squared	=	21.10%
Joint test for all covariates	Model F(3,59)	=	3.86
With Knapp-Hartung modification	Prob > F	=	0.0138

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_Cluster5_RS	.1822159	.0673186	2.71	0.009	.0475116 .3169201
iif7	.132116	.0734578	1.80	0.077	-.0148726 .2791047

itb	-.0214219	.0634196	-0.34	0.737	-.1483242	.1054804
_cons	.1405522	.0466863	3.01	0.004	.0471332	.2339713

Forward stepwise approach: Step 4

Add Rev_Cluster3_FM (adj R-sq=3%)

```
. metareg ES Rev_Cluster5_RS iif7 Rev_Cluster3_FM itb if Target_Beh==4, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	63
REML estimate of between-study variance	tau2 =	.03565
% residual variation due to heterogeneity	I-squared_res =	78.71%
Proportion of between-study variance explained	Adj R-squared =	24.21%
Joint test for all covariates	Model F(4,58) =	3.70
With Knapp-Hartung modification	Prob > F =	0.0095

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_Cluster5_RS	.1839052	.066431	2.77	0.008	.0509291 .3168812
iif7	.1340171	.0724218	1.85	0.069	-.0109508 .278985
Rev_Cluster3_FM	-.1007889	.0605277	-1.67	0.101	-.2219483 .0203705
itb	-.0239604	.0626053	-0.38	0.703	-.1492785 .1013576
_cons	.1920973	.0555253	3.46	0.001	.0809513 .3032433

Forward stepwise approach: Step 5

Add Rev_Cluster12_CO (adj R-sq=2.16%)

```
. metareg ES Rev_Cluster5_RS iif7 Rev_Cluster3_FM Rev_Cluster12_CO itb if Target_Beh==4, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	63
REML estimate of between-study variance	tau2 =	.0355
% residual variation due to heterogeneity	I-squared_res =	78.01%
Proportion of between-study variance explained	Adj R-squared =	24.54%
Joint test for all covariates	Model F(5,57) =	3.49

With Knapp-Hartung modification

Prob > F = 0.0081

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_Cluster5_RS	.1787967	.066415	2.69	0.009	.0458028	.3117905
iif7	.1487557	.0728902	2.04	0.046	.0027956	.2947158
Rev_Cluster3_FM	-.0872288	.0610214	-1.43	0.158	-.2094219	.0349644
Rev_Cluster12_CO	.123353	.0766079	1.61	0.113	-.0300517	.2767578
itb	-.014026	.0628239	-0.22	0.824	-.1398286	.1117766
_cons	.154133	.0602356	2.56	0.013	.0335132	.2747527

Forward stepwise approach: Step 6

Add Rev_Cluster1_SS (adj R-sq=1.61%)

```
. metareg ES Rev_Cluster5_RS iif7 Rev_Cluster3_FM Rev_Cluster12_CO Rev_Cluster1_SS itb if
Target_Beh==4, wsse(_SE) knapphartung

> reml
```

Meta-regression	Number of obs	=	63
REML estimate of between-study variance	tau2	=	.03305
% residual variation due to heterogeneity	I-squared_res	=	77.29%
Proportion of between-study variance explained	Adj R-squared	=	29.74%
Joint test for all covariates	Model F(6,56)	=	3.69
With Knapp-Hartung modification	Prob > F	=	0.0037

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_Cluster5_RS	.1839391	.0649115	2.83	0.006	.0539057	.3139725
iif7	.1587146	.0712891	2.23	0.030	.0159053	.3015239
Rev_Cluster3_FM	-.0914364	.059603	-1.53	0.131	-.2108356	.0279627
Rev_Cluster12_CO	.1239221	.0747094	1.66	0.103	-.0257389	.273583
Rev_Cluster1_SS	-.1313586	.0685005	-1.92	0.060	-.2685816	.0058645
itb	-.0333263	.0621844	-0.54	0.594	-.1578966	.091244
_cons	.2566069	.0794835	3.23	0.002	.0973823	.4158315

Forward stepwise approach: Step 7

Add Rev_Cluster6_Ant (adj R-sq=1.46%)

```
. metareg ES Rev_Cluster5_RS iif7 Rev_Cluster3_FM Rev_Cluster12_CO Rev_Cluster1_SS  
Rev_Cluster6_Ant itb if Target_Beh==4, wsse(  
> SE) knapphartung reml
```

Meta-regression	Number of obs	=	63
REML estimate of between-study variance	tau2	=	.03371
% residual variation due to heterogeneity	I-squared_res	=	77.69%
Proportion of between-study variance explained	Adj R-squared	=	28.33%
Joint test for all covariates	Model F(7,55)	=	3.13
With Knapp-Hartung modification	Prob > F	=	0.0075

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_Cluster5_RS	.1901065	.0683287	2.78	0.007	.0531726	.3270404
iif7	.1811426	.0988813	1.83	0.072	-.01702	.3793052
Rev_Cluster3_FM	-.0893819	.060309	-1.48	0.144	-.2102439	.0314801
Rev_Cluster12_CO	.1240565	.075244	1.65	0.105	-.0267359	.2748488
Rev_Cluster1_SS	-.1259229	.0707903	-1.78	0.081	-.2677898	.015944
Rev_Cluster6_Ant	-.0307789	.0941853	-0.33	0.745	-.2195303	.1579726
itb	-.0288869	.0638773	-0.45	0.653	-.1568999	.0991261
_cons	.2531376	.0805971	3.14	0.003	.0916175	.4146578

Forward stepwise approach: Step 8

Remove Rev_Cluster6_Ant; Add Rev_Cluster2_Reg (adj R-sq=0.38%)

```
. metareg ES Rev_Cluster5_RS iif7 Rev_Cluster3_FM Rev_Cluster12_CO Rev_Cluster1_SS  
Rev_Cluster2_Reg itb if Target_Beh==4, wsse(  
> SE) knapphartung reml
```

Meta-regression	Number of obs	=	63
REML estimate of between-study variance	tau2	=	.03371
% residual variation due to heterogeneity	I-squared_res	=	76.41%
Proportion of between-study variance explained	Adj R-squared	=	28.34%
Joint test for all covariates	Model F(7,55)	=	3.12

With Knapp-Hartung modification

Prob > F = 0.0077

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_Cluster5_RS	.1846726	.0656847	2.81	0.007	.0530376	.3163077
iif7	.1558221	.0743023	2.10	0.041	.0069169	.3047274
Rev_Cluster3_FM	-.0898556	.0607235	-1.48	0.145	-.2115482	.0318369
Rev_Cluster12_CO	.1208076	.0785289	1.54	0.130	-.0365679	.2781831
Rev_Cluster1_SS	-.1315213	.0689368	-1.91	0.062	-.2696736	.0066311
Rev_Cluster2_Reg	-.0128544	.0795368	-0.16	0.872	-.1722497	.1465408
itb	-.0333679	.0625921	-0.53	0.596	-.1588053	.0920695
_cons	.2598202	.0826577	3.14	0.003	.0941704	.4254699

Forward stepwise approach: Final Step

Remove Rev_Cluster2_Reg (adj R-sq=0.38%)

```
. metareg ES Rev_Cluster5_RS iif7 Rev_Cluster3_FM Rev_Cluster12_CO Rev_Cluster1_SS itb if
Target_Beh==4, wsse(_SE) knapphartung

> reml
```

Meta-regression	Number of obs	=	63
REML estimate of between-study variance	tau2	=	.03305
% residual variation due to heterogeneity	I-squared_res	=	77.29%
Proportion of between-study variance explained	Adj R-squared	=	29.74%
Joint test for all covariates	Model F(6,56)	=	3.69
With Knapp-Hartung modification	Prob > F	=	0.0037

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_Cluster5_RS	.1839391	.0649115	2.83	0.006	.0539057	.3139725
iif7	.1587146	.0712891	2.23	0.030	.0159053	.3015239
Rev_Cluster3_FM	-.0914364	.059603	-1.53	0.131	-.2108356	.0279627
Rev_Cluster12_CO	.1239221	.0747094	1.66	0.103	-.0257389	.273583
Rev_Cluster1_SS	-.1313586	.0685005	-1.92	0.060	-.2685816	.0058645
itb	-.0333263	.0621844	-0.54	0.594	-.1578966	.091244
_cons	.2566069	.0794835	3.23	0.002	.0973823	.4158315

Model PA_M1: controlling for control group cluster/IF use and theory-basedness (Long-term FU only)

```
. tabulate FU_Cat if Target_Beh==4
```

FU Category	Freq.	Percent	Cum.
-----+-----			
Short	44	69.84	69.84
Long	19	30.16	100.00
-----+-----			
Total	63	100.00	

Forward stepwise approach: Step 1

Empty model

```
. metareg ES if Target_Beh==4 & FU_Cat==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      19
REML estimate of between-study variance         tau2              =   .06294
% residual variation due to heterogeneity       I-squared_res    =  92.10%
With Knapp-Hartung modification
```

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
_cons	.2347238	.0636521	3.69	0.002	.1009957	.3684519
-----+-----						

.

Forward stepwise approach: Final Step

```
. metareg ES Rev_Cluster5_RS iif7 Rev_Cluster3_FM Rev_Cluster12_CO Rev_Cluster1_SS itb if
Target_Beh==4 & FU_Cat==1, wsse(_SE) kna
```

```
> pphartung reml
```

```
Meta-regression                                Number of obs =      19
REML estimate of between-study variance         tau2              =   .008418
% residual variation due to heterogeneity       I-squared_res    =  47.24%
```

Proportion of between-study variance explained	Adj R-squared = 86.62%
Joint test for all covariates	Model F(6,12) = 11.13
With Knapp-Hartung modification	Prob > F = 0.0003

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_Cluster5_RS	.3202426	.0735981	4.35	0.001	.1598862	.4805991
iif7	.269583	.0795438	3.39	0.005	.0962721	.442894
Rev_Cluster3_FM	-.2357654	.0751998	-3.14	0.009	-.3996116	-.0719192
Rev_Cluster12_CO	.3436455	.1243233	2.76	0.017	.0727682	.6145228
Rev_Cluster1_SS	-.1749275	.1035166	-1.69	0.117	-.4004708	.0506158
itb	-.1283822	.0947853	-1.35	0.201	-.3349015	.0781371
_cons	.3317866	.1200624	2.76	0.017	.070193	.5933802

Overall analysis across behaviour areas

META-ANALYSIS

```
. metan ES _SE if Filter_Overall==1, label(namevar=StudyID) sortby(StudyID) random effect(SMD)
astext(50) textsize(200) force xlabel(-1, -0.5, 0, 0.5, 1) favours (Favours Control # Favours
Intervention)
```

Study		ES	[95% Conf. Interval]		%Weight
-----+-----					
An 2006		0.691	0.380	1.002	0.59
Anthonisen 2005		0.871	0.755	0.987	0.92
Armit 2008_ES		0.072	-0.538	0.682	0.27
Armit 2008_ES+P		0.480	-0.112	1.073	0.28
Armitage 2008		1.522	0.394	2.650	0.10
Azodi 2009		0.505	-0.056	1.067	0.30
Baker 2006		0.917	-0.647	2.481	0.05
Bernstein 2011		0.145	-0.212	0.501	0.52
Bock 2008		0.099	-0.216	0.414	0.59
Borrelli 2005		0.435	-0.491	1.361	0.14
Burke 2008		0.104	-0.160	0.368	0.67
Carey 2006_BMI		0.220	-0.420	0.861	0.25
Carey 2006_BMI+TLFB		0.028	-0.609	0.665	0.25
Carey 2006_EBMI		-0.056	-0.695	0.583	0.25
Carey 2006_EBMI+TLFB		-0.118	-0.755	0.519	0.25
Carey 2006_TLFB		-0.105	-0.739	0.530	0.26
Carpenter 2004_MA+NR		1.015	0.502	1.528	0.34
Carpenter 2004_SR+NR		0.829	0.306	1.353	0.34
Chang 2011		-0.055	-0.232	0.122	0.82
Chouinard 2005_IC		0.442	-0.316	1.199	0.19
Chouinard 2005_IC+FU		0.442	-0.316	1.199	0.19
Clark 2004		0.440	0.043	0.837	0.47
Cortes-Bordoy 2010		-0.082	-0.435	0.270	0.53
Crosby 2009		0.294	-0.005	0.593	0.61
Curry 2003		0.203	-0.062	0.468	0.67
Daepfen 2007		-0.007	-0.181	0.166	0.83
Debussche 2012		0.095	-0.126	0.315	0.75
Dent 2008_BI		-0.298	-0.699	0.102	0.46
Dent 2008_MI		-0.107	-0.516	0.301	0.45
Dermen 2011_ALC		0.253	-0.349	0.855	0.28
Dermen 2011_H&A		0.173	-0.434	0.779	0.27
Dermen 2011_HIV		0.114	-0.523	0.751	0.25
Di Loreto 2003		1.100	0.872	1.329	0.73
Dornelas 2006		0.528	-0.402	1.458	0.14
Eakin 2007		0.253	-0.026	0.531	0.64
Eakin 2010		0.073	-0.117	0.262	0.80
El-Mohandes 2011		0.440	0.120	0.761	0.58
Elley 2003		0.265	0.076	0.453	0.80
Ellingsen 2005		0.339	0.173	0.506	0.84
Emmen 2005		-0.186	-0.540	0.168	0.53
Eriksson 2009		0.354	-0.010	0.718	0.51
Feldman 2011		0.089	-0.286	0.464	0.50
Field 2009_BP		-0.025	-0.256	0.206	0.73
Field 2009_HP		0.143	-0.026	0.312	0.84
Field 2009_WP		0.037	-0.115	0.189	0.87
Fleming 2008		0.354	0.096	0.611	0.68
Fleming 2010		0.075	-0.050	0.199	0.91
Free 2011		0.465	0.351	0.579	0.93

Froelicher 2004		-0.000	-0.294	0.294	0.62
Giannuzzi 2008		0.200	0.131	0.269	0.98
Gilbert 2008		0.284	-0.020	0.589	0.60
Glasgow 2006		0.368	0.139	0.597	0.73
Glasgow 2009		0.235	-0.302	0.772	0.32
Golin 2012		0.081	-0.142	0.305	0.74
Gordon 2010a_3As		0.413	-0.260	1.085	0.23
Gordon 2010a_5As		0.463	-0.203	1.129	0.24
Gordon 2010b		0.585	0.319	0.851	0.67
Grandes 2009		0.032	-0.082	0.147	0.92
Groeneveld 2011		0.573	0.376	0.769	0.79
Guelinckx 2010		0.336	-0.092	0.765	0.43
Hall 2009_ECBT		0.411	-0.007	0.829	0.44
Hall 2009_ENRT+CBT		0.192	-0.224	0.607	0.45
Hardcastle 2008		0.148	-0.072	0.368	0.75
Harting 2006		0.159	-0.068	0.386	0.73
Hertogh 2010		0.010	-0.320	0.340	0.56
Hilberink 2011		0.459	-0.064	0.982	0.34
Holloway 2007_SEE		0.483	-0.003	0.968	0.37
Holloway 2007_SHB		0.487	-0.001	0.975	0.37
Horden 2009		0.158	-0.138	0.454	0.62
Hovell 2009		0.260	-0.061	0.582	0.58
Hyman 2007_Seq		0.178	-0.350	0.706	0.33
Hyman 2007_Sim		0.234	-0.289	0.756	0.34
Ingersoll 2005		0.232	-0.063	0.528	0.62
Joseph 2008		0.013	-0.549	0.575	0.30
Joseph 2011		0.305	0.043	0.568	0.67
Juarez 2006_MF		0.108	-1.132	1.348	0.08
Juarez 2006_MI		0.507	-0.783	1.798	0.08
Juarez 2006_MI+F		-0.227	-1.507	1.052	0.08
Juarez 2006_MI+MF		0.565	-0.706	1.835	0.08
Katz 2004		0.186	-0.129	0.500	0.59
Keogh 2011		0.345	-0.016	0.705	0.52
Kirk 2009_PA-P		0.264	-0.294	0.822	0.31
Kirk 2009_PA-W		0.417	-0.136	0.971	0.31
Koblin 2012		-0.103	-0.376	0.171	0.65
Koelewijn-van Loon 2		0.108	-0.142	0.358	0.69
Kolt 2007		0.457	0.148	0.766	0.59
Kotz 2009_CC+Nort		0.388	-0.414	1.190	0.18
Kotz 2009_HE+Nort		0.409	-0.391	1.209	0.18
Kulesza 2010_10		0.545	-0.003	1.093	0.32
Kulesza 2010_50		0.227	-0.324	0.778	0.31
Kuller 2012		0.133	-0.056	0.321	0.80
Lacasse 2008		-0.096	-0.514	0.322	0.44
Lane 2008		0.183	-0.158	0.523	0.55
Langston 2010		0.256	-0.144	0.655	0.47
Lau Barraco 2008_EDU		0.138	-0.330	0.606	0.39
Lau Barraco 2008_EEC		0.218	-0.175	0.611	0.47
Lawrence 2003_SHM		0.464	-0.493	1.421	0.13
Lawrence 2003_SHM+IC		0.365	-0.613	1.344	0.13
Lawton 2008		0.156	0.019	0.292	0.89
Lewis 2007_GNSF		0.389	-0.009	0.787	0.47
Lewis 2007_GSF		0.457	0.054	0.860	0.46
Lindahl 2009		0.427	0.043	0.811	0.49
Lock 2006		0.152	-0.197	0.501	0.53
Lorig 2006		0.057	-0.084	0.198	0.88
Lorig 2010_SM		0.041	-0.204	0.287	0.70
Lorig 2010_SM+MR		-0.001	-0.252	0.251	0.69
Luoto 2011		-0.190	-0.403	0.024	0.76
Malchodi 2003		0.080	-0.354	0.515	0.42
Mansergh 2010		-0.072	-0.227	0.083	0.86
Marcus 2007_PB		0.523	0.135	0.910	0.48
Marcus 2007_TB		0.153	-0.230	0.536	0.49

Mastroleo 2010_CPA		0.356	-0.022	0.733	0.49
Mastroleo 2010_EEA		0.309	-0.074	0.693	0.49
McBride 2004_PAI		0.220	-0.261	0.700	0.38
McBride 2004_WOI		0.193	-0.291	0.676	0.37
McClure 2005		0.037	-0.396	0.471	0.43
McMurdo 2010_BCI		0.401	-0.015	0.816	0.45
McMurdo 2010_BCI+P		0.223	-0.189	0.636	0.45
Mello 2008		0.224	-0.009	0.457	0.72
Mohiuddin 2007		0.886	0.449	1.323	0.42
Molyneux 2003_Cou		-0.321	-1.193	0.550	0.15
Molyneux 2003_Cou+NR		0.223	-0.475	0.921	0.22
Moore 2006		0.072	-0.176	0.320	0.70
Moore 2010		0.160	0.003	0.316	0.86
Morey 2009		0.315	0.159	0.471	0.86
Muniz 2010		0.132	-0.062	0.325	0.79
Neighbors 2006		0.087	-0.202	0.376	0.63
Neumann 2006		0.121	-0.051	0.294	0.83
Neuner 2009		0.149	-0.053	0.350	0.78
Nies 2003		0.053	-0.276	0.381	0.56
Nijamkin 2012		0.488	0.143	0.833	0.54
Nollen 2007		0.147	-0.117	0.410	0.67
O'Connor 2007		0.929	0.256	1.601	0.23
Ockene 2009		-0.037	-0.130	0.055	0.95
Ondersma 2012_CD-5As		0.960	-0.285	2.204	0.08
Ondersma 2012_CD-5As		0.568	-0.636	1.771	0.09
Ondersma 2012_CM-Lit		-0.382	-1.819	1.055	0.06
Osborn 2010		0.411	-0.005	0.827	0.45
Patrick 2011		0.270	0.046	0.494	0.74
Pbert 2004		0.575	0.228	0.921	0.54
Penn 2009		-0.047	-0.492	0.398	0.41
Petersen 2007b		0.098	-0.067	0.262	0.85
Pinto 2011		0.442	-0.065	0.949	0.35
Pisinger 2009_GC		0.145	-0.930	1.219	0.11
Pisinger 2009_IC		-0.042	-1.190	1.106	0.09
Prestwich 2009_II		0.067	-0.652	0.786	0.21
Prestwich 2009_II+SM		0.441	-0.285	1.166	0.21
Prestwich 2009_SMS		0.160	-0.554	0.874	0.21
Rabius 2004		0.310	0.197	0.423	0.93
Ratner 2004		-0.046	-0.413	0.321	0.51
Reid 2008		0.033	-0.635	0.702	0.24
Reid 2011		0.151	-0.180	0.481	0.56
Rigotti 2006		0.209	-0.336	0.754	0.32
Rodriguez-Aralejo 20		0.525	0.062	0.987	0.39
Ruger 2008_CS		-0.136	-0.716	0.444	0.29
Ruger 2008_RQ		0.683	-0.032	1.398	0.21
Sallit 2009		0.629	0.271	0.987	0.52
Schumann 2008		-0.023	-0.246	0.201	0.74
Schunmann 2006		0.077	-0.230	0.384	0.60
Segan 2011		0.022	-0.185	0.229	0.77
Simmons 2007		-0.147	-0.725	0.430	0.29
Smeulders 2009		0.058	-0.165	0.282	0.74
Stolley 2009		0.189	-0.102	0.481	0.62
Stotts 2009_MI+USF		0.338	-0.178	0.855	0.34
Stotts 2009_USF		0.169	-0.362	0.699	0.33
Sutton 2007		0.037	-0.126	0.201	0.85
Swartz 2006		0.539	0.092	0.987	0.41
Tappin 2005		0.027	-0.343	0.397	0.50
Thomsen 2010		0.240	-0.428	0.908	0.24
Thoolen 2009		0.273	-0.023	0.569	0.62
Tingstrom 2006		0.000	-0.297	0.297	0.61
Toll 2010		0.067	-0.062	0.196	0.90
Toobert 2010		0.081	-0.158	0.319	0.71
Toobert 2011		0.115	-0.121	0.351	0.72

Tross 2008		0.420	0.217	0.623	0.78
Unrod 2007		0.315	-0.035	0.664	0.53
VHSG		0.528	0.029	1.028	0.36
Vale 2003		0.383	0.102	0.663	0.64
Vermunt 2011		0.204	0.062	0.346	0.88
Vestfold HSG		0.477	0.158	0.796	0.58
Vidrine 2012		0.795	0.419	1.171	0.50
Walters 2009_MI		0.122	-0.385	0.630	0.35
Walters 2009_MI+F		0.268	-0.233	0.769	0.36
Walters 2009_WEB		0.066	-0.447	0.579	0.34
White 2012		0.344	-0.072	0.760	0.45
Willemsen 2006		-0.007	-0.317	0.304	0.59
Wolitski 2005		0.137	-0.062	0.336	0.79
Wood 2008_Cor		0.515	0.361	0.670	0.86
Wood 2008_HR		0.536	0.388	0.684	0.87
Woodall 2007		0.328	0.097	0.559	0.73
Wright 2011_NES		0.260	-0.178	0.697	0.42
Wright 2011_TDF		0.260	-0.178	0.697	0.42
de Vries 2006		1.010	0.082	1.938	0.14
ter Bogt 2011		-0.061	-0.310	0.188	0.70
van Sluijjs 2005		-0.006	-0.262	0.251	0.68
van Wier 2009_Int		0.064	-0.216	0.343	0.64
van Wier 2009_Ph0		0.188	-0.075	0.451	0.67
-----+-----					
D+L pooled ES		0.225	0.187	0.262	100.00
-----+-----					

Heterogeneity chi-squared = 576.75 (d.f. = 196) p = 0.000
I-squared (variation in ES attributable to heterogeneity) = 66.0%
Estimate of between-study variance Tau-squared = 0.0353

Test of ES=0 : z= 11.87 p = 0.000

Outliers

```
. metaninf ES _SE if Filter_Overall==1, label(namevar=StudyID) random
```

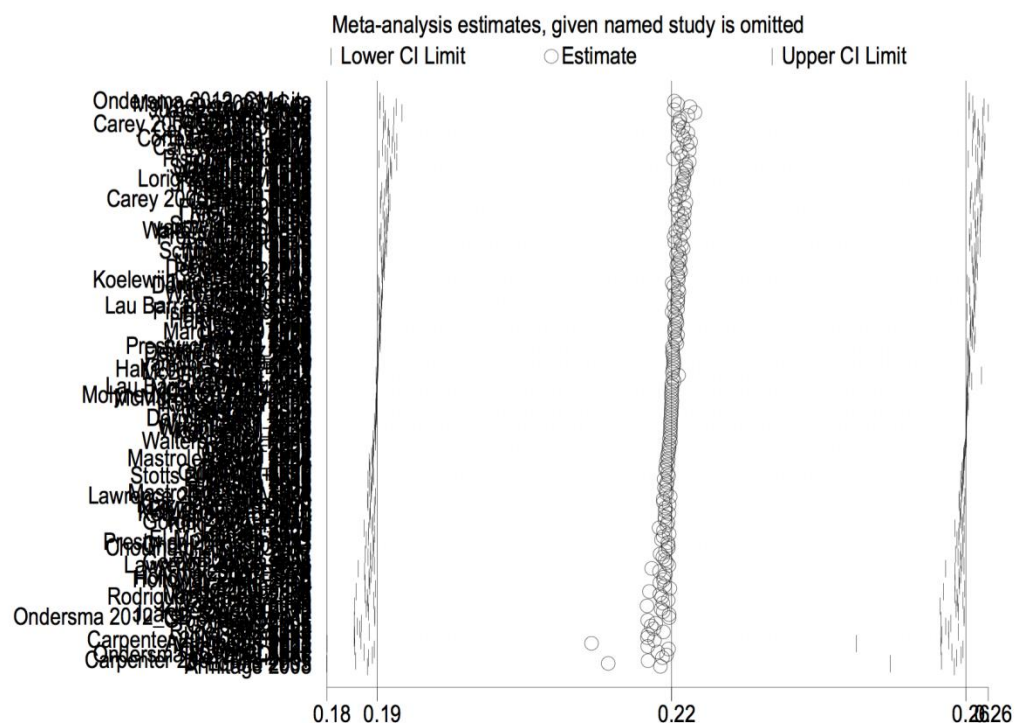
Study omitted	Estimate	[95% Conf. Interval]
-----+-----		
Ondersma 2012_CM-Lite	.2249596	.1878618 .26205739
Molyneux 2003_Cou	.22540493	.18830979 .26250008
Dent 2008_BI	.22690547	.18987437 .26393658
Juarez 2006_MI+F	.22493634	.18782917 .26204351
Luoto 2011	.2275271	.19059807 .26445612
Emmen 2005	.22668056	.18958932 .2637718
Simmons 2007	.22566265	.18853584 .26278946
Ruger 2008_CS	.22562389	.18849446 .26275334
Carey 2006_EBMI+TLFB	.22545025	.18831955 .26258096
Dent 2008_MI	.22607403	.18893006 .26321799
Carey 2006_TLFB	.22542284	.18828957 .26255614
Koblin 2012	.22667377	.18954343 .26380411
Lacasse 2008	.22598915	.18884067 .26313761
Cortes-Bordoy 2010	.22619215	.18903555 .26334876
Mansergh 2010	.22701406	.18996572 .2640624
ter Bogt 2011	.22654216	.18937843 .26370591
Carey 2006_EBMI	.22529681	.18815586 .26243779
Chang 2011	.22682253	.18969475 .26395032
Penn 2009	.22570273	.18853962 .26286584
Ratner 2004	.22595716	.18878379 .26313052
Pisinger 2009_IC	.22484423	.18772548 .26196298
Ockene 2009	.22683179	.18994857 .26371503
Field 2009_BP	.22639154	.18919416 .26358894
Schumann 2008	.22640547	.18920565 .2636053
Daepfen 2007	.22649799	.18928438 .2637116
Willemsen 2006	.22596203	.18876095 .26316309
van Sluijjs 2005	.22616242	.18894975 .26337507
Lorig 2010_SM+MR	.22614811	.18893087 .26336536
Froelicher 2004	.22598505	.18877684 .26319328
Tingstrom 2006	.22597507	.1887673 .26318282
Hertogh 2010	.22580348	.18859905 .26300791
Joseph 2008	.22523883	.18807949 .26239815
Segan 2011	.22616693	.18891853 .26341534
Tappin 2005	.22559857	.1883987 .26279846
Carey 2006_BMI+TLFB	.22509439	.1879427 .2622461
Grandes 2009	.22640552	.18910204 .26370898
Reid 2008	.22504713	.1878984 .26219586
Field 2009_WP	.22625099	.18895786 .26354411
McClure 2005	.22539644	.18820985 .26258302
Sutton 2007	.22620994	.18892373 .26349616
Lorig 2010_SM	.22589841	.18864962 .26314721
Nies 2003	.22557995	.18835907 .26280084
Lorig 2006	.2261371	.1887987 .26347551
Smeulders 2009	.2258552	.18858375 .26312664
van Wier 2009_Int	.22565177	.18840672 .26289681
Walters 2009_WEB	.22514653	.18797211 .26232097
Toll 2010	.2261057	.18873087 .26348054
Prestwich 2009_II	.22492951	.18778332 .26207569
Moore 2006	.22568682	.18842165 .26295197
Armit 2008_ES	.22501163	.18785243 .26217082
Eakin 2010	.22586024	.18855314 .26316735
Fleming 2010	.22606061	.18866225 .26345897
Schunmann 2006	.22549947	.18826188 .26273707
Malchodi 2003	.22521709	.18802287 .2624113
Toobert 2010	.22565925	.18838358 .26293492
Golin 2012	.22569533	.18840897 .26298168
Neighbors 2006	.22548492	.18823566 .26273417

Feldman 2011		.22528453	.18807074	.26249835
Debussche 2012		.22561188	.18831551	.26290825
Petersen 2007b		.22574982	.1883902	.26310945
Bock 2008		.22535215	.18811209	.2625922
Burke 2008		.22543967	.18817052	.26270881
Koelewijn-van Loon 2010		.22544526	.18816561	.26272491
Juarez 2006_MF		.22469075	.18757005	.26181144
Dermen 2011_HIV		.22488098	.18772262	.26203933
Toobert 2011		.22542982	.18813661	.26272303
Neumann 2006		.22553939	.188173	.26290578
Walters 2009_MI		.22496228	.18778104	.26214352
Muniz 2010		.2254052	.18806271	.2627477
Kuller 2012		.22540946	.18805993	.26275903
Wolitski 2005		.22535393	.18801509	.26269275
Lau Barraco 2008_EDU		.22494319	.18775137	.262135
Field 2009_HP		.225375	.18798995	.26276004
Pisinger 2009_GC		.22468148	.18755502	.26180795
Bernstein 2011		.22503594	.18780637	.2622655
Nollen 2007		.22515911	.18787797	.26244026
Hardcastle 2008		.22522528	.18790637	.26254418
Neuner 2009		.22525762	.18791775	.2625975
Reid 2011		.22503605	.1877939	.26227823
Lock 2006		.22500814	.18777438	.2622419
Marcus 2007_TB		.22496399	.18774429	.2621837
Lawton 2008		.22536494	.18789442	.26283547
Horden 2009		.22503774	.18777585	.26229966
Harting 2006		.22513837	.18782383	.2624529
Moore 2010		.22527392	.1878541	.26269373
Prestwich 2009_SMS		.22473744	.18758674	.26188815
Stotts 2009_USF		.22478853	.18760972	.26196733
Dermen 2011_H&A		.22474433	.18757932	.26190937
Hyman 2007_Seq		.22475961	.18758005	.26193917
Lane 2008		.2248507	.18761064	.26209077
Katz 2004		.22485572	.1876018	.26210964
van Wier 2009_Ph		.22488382	.18759634	.2621713
Stolley 2009		.22485077	.18758324	.26211831
Hall 2009_ENRT+CBT		.2247598	.1875497	.26196989
McBride 2004_WOI		.22472587	.18753557	.26191616
Giannuzzi 2008		.22546846	.18734381	.26359311
Curry 2003		.22478101	.18749455	.26206747
Vermunt 2011		.2249295	.18745947	.26239952
Rigotti 2006		.224655	.18747853	.26183149
Lau Barraco 2008_EEC		.2246446	.18742621	.26186299
McBride 2004_PAI		.22462562	.18743451	.26181671
Carey 2006_BMI		.22461189	.18745157	.26177222
Molyneux 2003_Cou+NRT		.22460298	.18745002	.26175594
McMurdo 2010_BCI+P		.22461762	.18740647	.26182878
Mello 2008		.22465812	.1873444	.26197183
Kulesza 2010_50		.22459577	.18742059	.26177093
Ingersoll 2005		.22458136	.18731666	.26184607
Hyman 2007_Sim		.22457416	.18739322	.26175508
Glasgow 2009		.22457169	.18739386	.26174954
Thomsen 2010		.22456354	.18740717	.26171991
Dermen 2011_ALC		.22452381	.1873582	.26168942
Eakin 2007		.22444953	.18717574	.26172334
Langston 2010		.22446656	.18725213	.26168099
Wright 2011_NES		.22446121	.18725954	.26166287
Wright 2011_TDF		.22446121	.18725954	.26166287
Hovell 2009		.22441636	.18716876	.26166394
Kirk 2009_PA-P		.22448179	.18730898	.26165459
Elley 2003		.22435196	.18699311	.26171082
Walters 2009_MI+F		.22444962	.18726513	.26163408
Patrick 2011		.22431114	.18699647	.2616258

Thoolen 2009		.22432514	.18706551	.26158476
Gilbert 2008		.22425991	.18700677	.26151305
Crosby 2009		.22419387	.18693987	.26144788
Joseph 2011		.22408104	.18680826	.26135382
Mastroleo 2010_EEA		.22419529	.18698116	.2614094
Rabius 2004		.22397235	.1864713	.26147342
Unrod 2007		.22412743	.18690145	.2613534
Morey 2009		.22390053	.18652265	.26127842
Woodall 2007		.2238725	.18658744	.26115757
Guelinckx 2010		.22411893	.18692295	.26131493
Stotts 2009_MI+USF		.22420873	.18703339	.26138407
Ellingsen 2005		.22368024	.18634345	.26101705
White 2012		.22406821	.18687002	.26126641
Keogh 2011		.22398132	.1867661	.26119655
Fleming 2008		.22372995	.18647422	.26098567
Eriksson 2009		.22393519	.18672337	.26114699
Mastroleo 2010_CPA		.22395171	.18674463	.26115879
Lawrence 2003_SHM+ICI		.22441708	.18728881	.26154533
Glasgow 2006		.22355393	.18629153	.26081634
Vale 2003		.22357802	.18634711	.26080891
Kotz 2009_CC+Nort		.2243055	.18716846	.26144254
Lewis 2007_GNSF		.22382401	.18663101	.26101699
McMurdo 2010_BCI		.22380327	.18661736	.26098919
Kotz 2009_HE+Nort		.22426522	.1871295	.26140094
Osborn 2010		.22375572	.18657264	.26093879
Hall 2009_ECBT		.22375977	.18657717	.26094237
Gordon 2010a_3As		.22415091	.18700536	.26129648
Kirk 2009_PA-W		.22398977	.18683119	.26114836
Tross 2008		.223042	.18581951	.26026449
Lindahl 2009		.22359978	.18641493	.26078463
Borrelli 2005		.22430035	.18717311	.26142761
Clark 2004		.22356808	.18639018	.26074597
El-Mohandes 2011		.22332768	.18613672	.26051864
Prestwich 2009_II+SMS		.22414072	.18700244	.26127899
Chouinard 2005_IC		.22416866	.18703277	.26130453
Chouinard 2005_IC+FU		.22416866	.18703277	.26130453
Pinto 2011		.22382255	.18666217	.26098293
Kolt 2007		.22317919	.18599613	.26036227
Lewis 2007_GSF		.22350031	.18632931	.26067132
Hilberink 2011		.22379363	.18663883	.26094842
Gordon 2010a_5As		.22402023	.18687993	.26116049
Lawrence 2003_SHM		.22427718	.18715301	.26140136
Free 2011		.22210082	.18512109	.25908056
Vestfold HSG		.22308959	.18591928	.26025987
Armit 2008_ES+P		.22385953	.18671583	.26100323
Holloway 2007_SEE		.22361895	.18646562	.26077232
Holloway 2007_SHB		.2236097	.18645781	.26076159
Nijamkin 2012		.22313003	.185967	.26029307
Azodi 2009		.22372083	.18657948	.2608622
Juarez 2006_MI		.22437453	.18726048	.26148859
Wood 2008_Cor		.22182742	.1848544	.25880045
Marcus 2007_PB		.22311731	.18597223	.2602624
Rodriguez-Aralejo 2003		.22338316	.18624075	.26052555
Dornelas 2006		.22416963	.18704925	.26128998
VHSG		.22348234	.18634288	.26062182
Wood 2008_HR		.22152488	.18465079	.25839895
Swartz 2006		.22326919	.18613163	.26040676
Kulesza 2010_10		.22355644	.18642378	.26068911
Juarez 2006_MI+MF		.22432102	.18720932	.26143274
Ondersma 2012_CD-5As+CM-Lite		.22428961	.18717729	.26140192
Groeneveld 2011		.22158541	.18462914	.25854167
Pbert 2004		.22262852	.18551916	.25973785
Gordon 2010b		.22204548	.18499064	.25910032

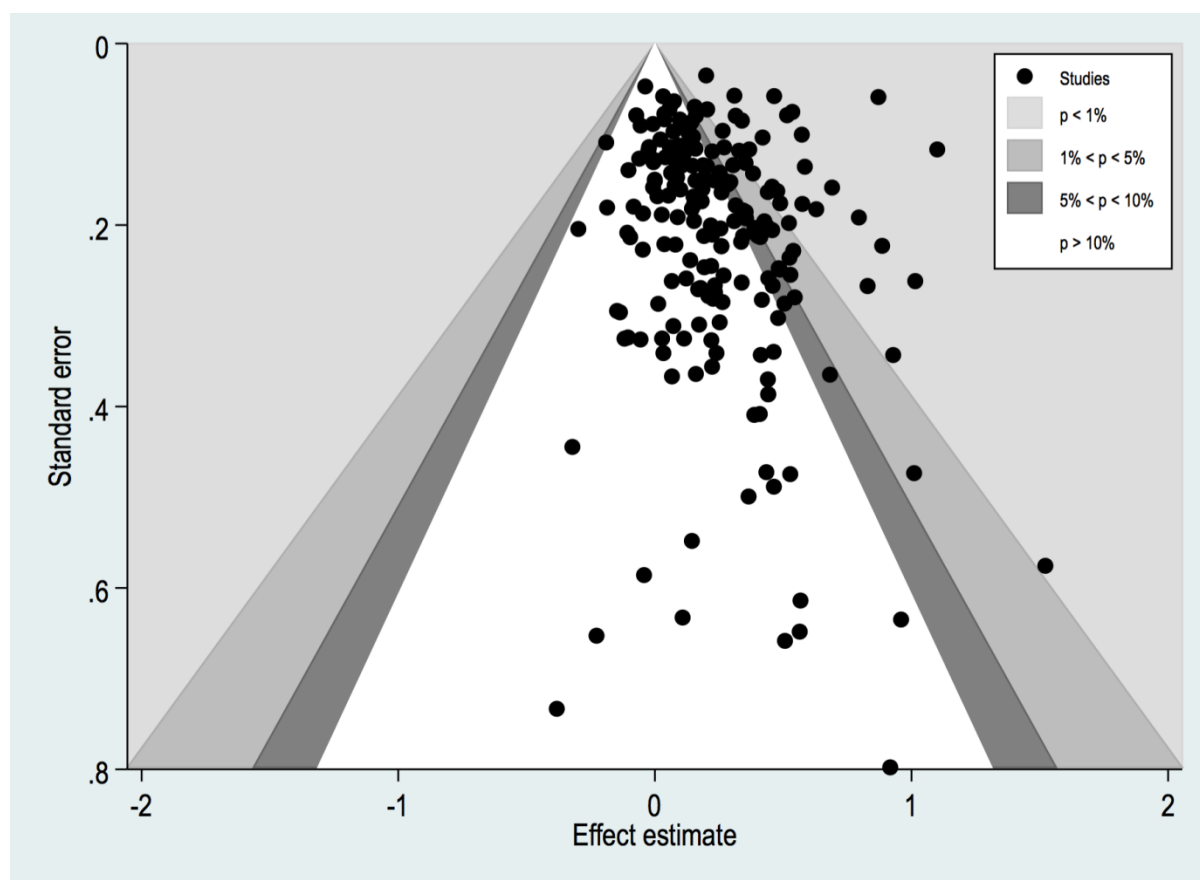
Sallit 2009		.22237825	.18530448	.25945204
Ruger 2008_RQ		.22358616	.18648541	.26068693
An 2006		.22164012	.18466148	.25861877
Vidrine 2012		.221558	.1846142	.25850183
Carpenter 2004_SR+NRT		.2224526	.18543303	.25947216
Anthonisen 2005		.21452999	.18119091	.24786907
Mohiuddin 2007		.22161373	.18468714	.25854033
Baker 2006		.22420765	.18711601	.26129931
O'Connor 2007		.22285555	.18583089	.25988021
Ondersma 2012_CD-5As		.22396365	.18688391	.2610434
de Vries 2006		.22344908	.18640056	.2604976
Carpenter 2004_MA+NRT		.2216706	.18477167	.25856954
Di Loreto 2003		.21664269	.18114609	.2521393
Armitage 2008		.22321703	.18624727	.26018676

Combined		.2245708	.18749699	.26164462



Publication bias

```
. confunnel ES_SE          if Filter_Overall==1
```



```
. metabias ES_SE          if Filter_Overall==1, egger graph
```

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 = 197 Root MSE = 1.71

-----+-----						
Std_Eff	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
slope	.1699208	.0307439	5.53	0.000	.1092876	.230554
bias	.3423395	.2294186	1.49	0.137	-.1101208	.7947999

Test of H0: no small-study effects P = 0.137

```
. metatrim ES _SE if Filter_Overall==1, reffect funnel
```

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

Meta-analysis

	Pooled	95% CI		Asymptotic		No. of
Method	Est	Lower	Upper	z_value	p_value	studies
Fixed	0.209	0.190	0.228	21.869	0.000	197
Random	0.225	0.187	0.262	11.872	0.000	

Test for heterogeneity: Q= 576.749 on 196 degrees of freedom (p= 0.000)

Moment-based estimate of between studies variance = 0.035

Trimming estimator: Linear

Meta-analysis type: Random-effects model

iteration	estimate	Tn	# to trim	diff
1	0.225	10144	4	19503
2	0.211	10684	9	1080
3	0.195	11427	17	1486
4	0.174	12338	26	1822
5	0.161	12889	32	1102
6	0.151	13321	36	864
7	0.139	13839	42	1036
8	0.134	14027	44	376
9	0.133	14052	44	50
10	0.133	14052	44	0

Warning: iterative algorithm did not converge

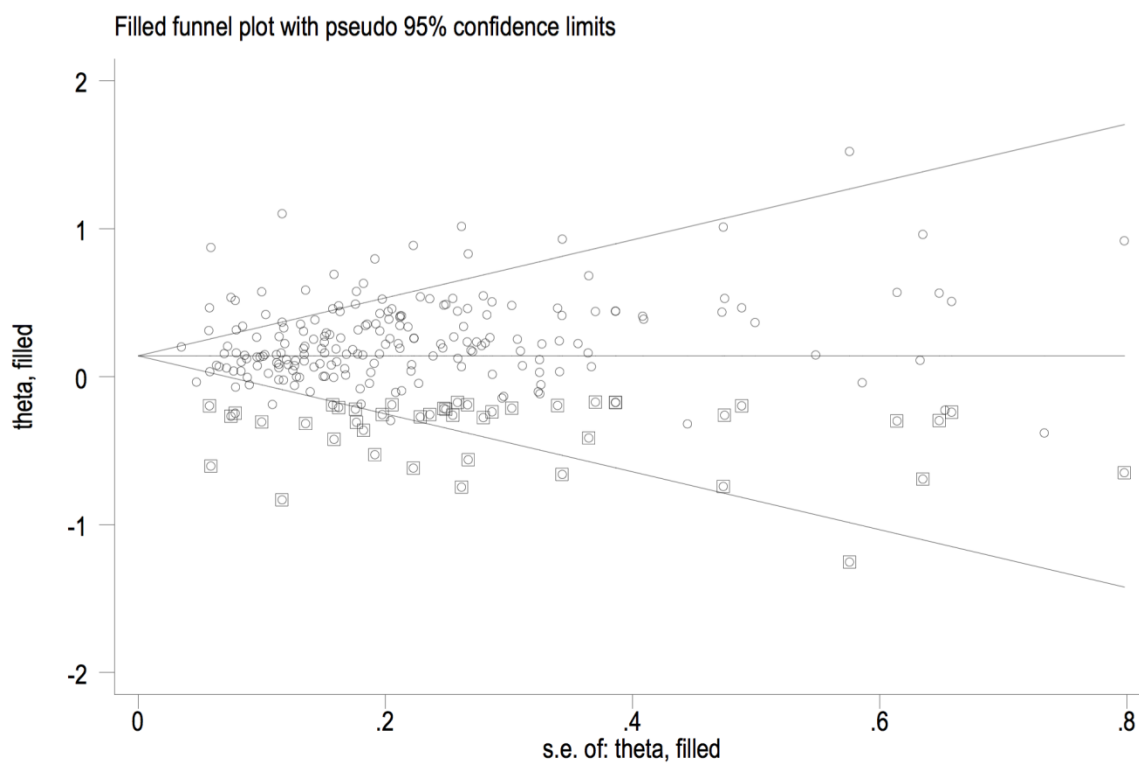
Filled

Meta-analysis

	Pooled	95% CI		Asymptotic		No. of
Method	Est	Lower	Upper	z_value	p_value	studies
Fixed	0.133	0.115	0.150	14.932	0.000	241
Random	0.141	0.098	0.184	6.473	0.000	

Test for heterogeneity: $Q = 1111.226$ on 240 degrees of freedom ($p = 0.000$)

Moment-based estimate of between studies variance = 0.070



Univariate meta-regression – Controlling for BCT in control group using revised method

Individual BCTs

Revised method involved creating a new dummy variable for each BCT where, for example:

```
BCT1[interv]=0 & BCT1[control]=0, then Rev_BCT1 was coded 0
BCT1 [interv]=1 & BCT1 [control]=0, then Rev_ BCT1 was coded 1
BCT1 [interv]=1 & BCT1 [control]=1, then Rev_ BCT1was coded 0
BCT1 [interv]=0 & BCT1 [control]=1, then Rev_ BCT1 was coded 0
```

```
. tabulate Rev_ibct1 if Filter_Overall==1
```

Rev_ibct1	Freq.	Percent	Cum.
0	189	95.94	95.94
1	8	4.06	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct1 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	197
REML estimate of between-study variance	tau2	=	.0303
% residual variation due to heterogeneity	I-squared_res	=	65.83%
Proportion of between-study variance explained	Adj R-squared	=	2.39%
With Knapp-Hartung modification			

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_ibct1	.1473549	.0774624	1.90	0.059	-.0054166 .3001265
_cons	.214753	.0186168	11.54	0.000	.178037 .251469

```
. tabulate Rev_ibct2 if Filter_Overall==1
```

Rev_ibct2	Freq.	Percent	Cum.
0	194	98.48	98.48
1	3	1.52	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct2 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	197
REML estimate of between-study variance	tau2	=	.03106
% residual variation due to heterogeneity	I-squared_res	=	66.08%
Proportion of between-study variance explained	Adj R-squared	=	-0.04%
With Knapp-Hartung modification			

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_ibct2	.1234236	.1493766	0.83	0.410	-.1711775 .4180247
_cons	.2216114	.0183409	12.08	0.000	.1854394 .2577833

```
. tabulate Rev_ibct3 if Filter_Overall==1
```

Rev_ibct3	Freq.	Percent	Cum.
0	64	32.49	32.49
1	133	67.51	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct3 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance          tau2           =    .03122
% residual variation due to heterogeneity         I-squared_res  =   66.00%
Proportion of between-study variance explained    Adj R-squared  =  -0.57%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_ibct3	.014396	.039315	0.37	0.715	-.0631413	.0919332
_cons	.2136273	.0325866	6.56	0.000	.1493599	.2778947

```
. tabulate Rev_ibct4 if Filter_Overall==1
```

Rev_ibct4	Freq.	Percent	Cum.
0	162	82.23	82.23
1	35	17.77	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct4 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance          tau2           =    .02895
% residual variation due to heterogeneity         I-squared_res  =   61.00%
Proportion of between-study variance explained    Adj R-squared  =    6.74%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_ibct4	.1221948	.0501931	2.43	0.016	.0232038	.2211858
_cons	.2047739	.0193214	10.60	0.000	.1666681	.2428796

```
. tabulate Rev_ibct5 if Filter_Overall==1
```

Rev_ibct5	Freq.	Percent	Cum.
0	176	89.34	89.34
1	21	10.66	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct5 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance          tau2           =    .03138
% residual variation due to heterogeneity         I-squared_res  =   66.19%
Proportion of between-study variance explained    Adj R-squared  =  -1.08%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
----	-------	-----------	---	------	----------------------	--

```

-----+-----
Rev_ibct5 | .0296276 .0562975 0.53 0.599 -.0814027 .1406578
_cons | .2200212 .0194569 11.31 0.000 .1816483 .2583941
-----+-----

. tabulate Rev_ibct6 if Filter_Overall==1

Rev_ibct6 | Freq. Percent Cum.
-----+-----
0 | 196 99.49 99.49
1 | 1 0.51 100.00
-----+-----
Total | 197 100.00

. tabulate Rev_ibct7 if Filter_Overall==1

Rev_ibct7 | Freq. Percent Cum.
-----+-----
0 | 197 100.00 100.00
-----+-----
Total | 197 100.00

. tabulate Rev_ibct8 if Filter_Overall==1

Rev_ibct8 | Freq. Percent Cum.
-----+-----
0 | 138 70.05 70.05
1 | 59 29.95 100.00
-----+-----
Total | 197 100.00

. metareg ES Rev_ibct8 if Filter_Overall==1, wsse(_SE) knapphartung reml

Meta-regression
REML estimate of between-study variance
% residual variation due to heterogeneity
Proportion of between-study variance explained
With Knapp-Hartung modification

Number of obs = 197
tau2 = .03126
I-squared_res = 66.01%
Adj R-squared = -0.69%

-----+-----
ES | Coef. Std. Err. t P>|t| [95% Conf. Interval]
-----+-----
Rev_ibct8 | -.0261348 .0399773 -0.65 0.514 -.1049782 .0527085
_cons | .2312452 .0217248 10.64 0.000 .1883994 .274091
-----+-----

. tabulate Rev_ibct9 if Filter_Overall==1

Rev_ibct9 | Freq. Percent Cum.
-----+-----
0 | 182 92.39 92.39
1 | 15 7.61 100.00
-----+-----
Total | 197 100.00

. metareg ES Rev_ibct9 if Filter_Overall==1, wsse(_SE) knapphartung reml

Meta-regression
REML estimate of between-study variance
% residual variation due to heterogeneity
Proportion of between-study variance explained
With Knapp-Hartung modification

Number of obs = 197
tau2 = .03114
I-squared_res = 65.80%
Adj R-squared = -0.30%

```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_ibct9	.0527912	.069996	0.75	0.452	-.0852551	.1908375
_cons	.2196369	.0189204	11.61	0.000	.182322	.2569519

```
. tabulate Rev_ibct10 if Filter_Overall==1
```

Rev_ibct10	Freq.	Percent	Cum.
0	165	83.76	83.76
1	32	16.24	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct10 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance          tau2           =   .03106
% residual variation due to heterogeneity         I-squared_res  =  65.77%
Proportion of between-study variance explained   Adj R-squared  =  -0.04%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_ibct10	-.0393718	.0468884	-0.84	0.402	-.1318452	.0531016
_cons	.2307511	.0201609	11.45	0.000	.1909897	.2705126

```
. tabulate Rev_ibct11 if Filter_Overall==1
```

Rev_ibct11	Freq.	Percent	Cum.
0	192	97.46	97.46
1	5	2.54	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct11 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance          tau2           =   .03132
% residual variation due to heterogeneity         I-squared_res  =  66.17%
Proportion of between-study variance explained   Adj R-squared  =  -0.89%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_ibct11	-.0247743	.1082217	-0.23	0.819	-.2382095	.1886609
_cons	.2242697	.018521	12.11	0.000	.1877425	.260797

```
. tabulate Rev_ibct12 if Filter_Overall==1
```

Rev_ibct12	Freq.	Percent	Cum.
0	195	98.98	98.98
1	2	1.02	100.00
Total	197	100.00	

```
. tabulate Rev_ibct13 if Filter_Overall==1
```

Rev_ibct13	Freq.	Percent	Cum.
0	195	98.98	98.98
1	2	1.02	100.00
Total	197	100.00	

```
. tabulate Rev_ibct14 if Filter_Overall==1
```

Rev_ibct14	Freq.	Percent	Cum.
0	188	95.43	95.43
1	9	4.57	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct14 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression
REML estimate of between-study variance
% residual variation due to heterogeneity
Proportion of between-study variance explained
With Knapp-Hartung modification

Number of obs = 197
tau2 = .03072
I-squared_res = 65.94%
Adj R-squared = 1.04%

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_ibct14	-.2175191	.1339671	-1.62	0.106	-.4817296 .0466915
_cons	.2274459	.0183159	12.42	0.000	.1913232 .2635687

```
. tabulate Rev_ibct15 if Filter_Overall==1
```

Rev_ibct15	Freq.	Percent	Cum.
0	192	97.46	97.46
1	5	2.54	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct15 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression
REML estimate of between-study variance
% residual variation due to heterogeneity
Proportion of between-study variance explained
With Knapp-Hartung modification

Number of obs = 197
tau2 = .03126
I-squared_res = 66.15%
Adj R-squared = -0.71%

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_ibct15	.0686156	.1105839	0.62	0.536	-.1494784 .2867097
_cons	.2216086	.0184986	11.98	0.000	.1851255 .2580916

```
. tabulate Rev_ibct16 if Filter_Overall==1
```

Rev_ibct16	Freq.	Percent	Cum.
0	197	100.00	100.00
Total	197	100.00	

```
. tabulate Rev_ibct17 if Filter_Overall==1
```

Rev_ibct17	Freq.	Percent	Cum.
0	197	100.00	100.00
Total	197	100.00	

```
. tabulate Rev_ibct18 if Filter_Overall==1
```

Rev_ibct18	Freq.	Percent	Cum.
0	197	100.00	100.00
Total	197	100.00	

```
. tabulate Rev_ibct19 if Filter_Overall==1
```

Rev_ibct19	Freq.	Percent	Cum.
0	197	100.00	100.00
Total	197	100.00	

```
. tabulate Rev_ibct20 if Filter_Overall==1
```

Rev_ibct20	Freq.	Percent	Cum.
0	197	100.00	100.00
Total	197	100.00	

```
. tabulate Rev_ibct21 if Filter_Overall==1
```

Rev_ibct21	Freq.	Percent	Cum.
0	197	100.00	100.00
Total	197	100.00	

```
. tabulate Rev_ibct22 if Filter_Overall==1
```

Rev_ibct22	Freq.	Percent	Cum.
0	197	100.00	100.00
Total	197	100.00	

```
. tabulate Rev_ibct23 if Filter_Overall==1
```

Rev_ibct23	Freq.	Percent	Cum.
0	181	91.88	91.88
1	16	8.12	100.00
Total	197	100.00	

Total | 197 100.00

. metareg ES Rev_ibct23 if Filter_Overall==1, wsse(_SE) knapphartung reml

Meta-regression	Number of obs	=	197
REML estimate of between-study variance	tau2	=	.03133
% residual variation due to heterogeneity	I-squared_res	=	66.18%
Proportion of between-study variance explained	Adj R-squared	=	-0.92%
With Knapp-Hartung modification			

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_ibct23	-.0268912	.0594289	-0.45	0.651	-.144097 .0903147
_cons	.226381	.0192945	11.73	0.000	.1883284 .2644336

. tabulate Rev_ibct24 if Filter_Overall==1

Rev_ibct24	Freq.	Percent	Cum.
0	197	100.00	100.00
Total	197	100.00	

. tabulate Rev_ibct25 if Filter_Overall==1

Rev_ibct25	Freq.	Percent	Cum.
0	182	92.39	92.39
1	15	7.61	100.00
Total	197	100.00	

. metareg ES Rev_ibct25 if Filter_Overall==1, wsse(_SE) knapphartung reml

Meta-regression	Number of obs	=	197
REML estimate of between-study variance	tau2	=	.03105
% residual variation due to heterogeneity	I-squared_res	=	65.54%
Proportion of between-study variance explained	Adj R-squared	=	-0.01%
With Knapp-Hartung modification			

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_ibct25	.0393584	.0675911	0.58	0.561	-.093945 .1726619
_cons	.220372	.018962	11.62	0.000	.182975 .2577689

. tabulate Rev_ibct26 if Filter_Overall==1

Rev_ibct26	Freq.	Percent	Cum.
0	197	100.00	100.00
Total	197	100.00	

. tabulate Rev_ibct27 if Filter_Overall==1

Rev_ibct27	Freq.	Percent	Cum.
0	197	100.00	100.00

Total	197	100.00
-------	-----	--------

```
. tabulate Rev_ibct28 if Filter_Overall==1
```

Rev_ibct28	Freq.	Percent	Cum.
0	192	97.46	97.46
1	5	2.54	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct28 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	197
REML estimate of between-study variance	tau2 =	.03061
% residual variation due to heterogeneity	I-squared_res =	64.91%
Proportion of between-study variance explained	Adj R-squared =	1.39%
With Knapp-Hartung modification		

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_ibct28	.101132	.0982782	1.03	0.305	-.0926927 .2949567
_cons	.2197843	.0184531	11.91	0.000	.1833911 .2561775

```
. tabulate Rev_ibct29 if Filter_Overall==1
```

Rev_ibct29	Freq.	Percent	Cum.
0	188	95.43	95.43
1	9	4.57	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct29 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	197
REML estimate of between-study variance	tau2 =	.02922
% residual variation due to heterogeneity	I-squared_res =	64.91%
Proportion of between-study variance explained	Adj R-squared =	5.87%
With Knapp-Hartung modification		

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_ibct29	.2176024	.0841559	2.59	0.010	.0516298 .383575
_cons	.2126464	.0183198	11.61	0.000	.1765161 .2487767

```
. tabulate Rev_ibct30 if Filter_Overall==1
```

Rev_ibct30	Freq.	Percent	Cum.
0	195	98.98	98.98
1	2	1.02	100.00
Total	197	100.00	

```
. tabulate Rev_ibct31 if Filter_Overall==1
```

Rev_ibct31	Freq.	Percent	Cum.
-----+-----			

0	194	98.48	98.48
1	3	1.52	100.00
-----+-----			
Total	197	100.00	

```
. metareg ES Rev_ibct31 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2           =    .03043
% residual variation due to heterogeneity       I-squared_res  =   64.90%
Proportion of between-study variance explained  Adj R-squared  =    1.97%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_ibct31	.1962476	.130177	1.51	0.133	-.0604881	.4529832
_cons	.2194325	.0182745	12.01	0.000	.1833914	.2554736

```
. tabulate Rev_ibct32 if Filter_Overall==1
```

Rev_ibct32	Freq.	Percent	Cum.
-----+-----			
0	195	98.98	98.98
1	2	1.02	100.00
-----+-----			
Total	197	100.00	

```
. tabulate Rev_ibct33 if Filter_Overall==1
```

Rev_ibct33	Freq.	Percent	Cum.
-----+-----			
0	196	99.49	99.49
1	1	0.51	100.00
-----+-----			
Total	197	100.00	

```
. tabulate Rev_ibct34 if Filter_Overall==1
```

Rev_ibct34	Freq.	Percent	Cum.
-----+-----			
0	158	80.20	80.20
1	39	19.80	100.00
-----+-----			
Total	197	100.00	

```
. metareg ES Rev_ibct34 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2           =    .02956
% residual variation due to heterogeneity       I-squared_res  =   62.80%
Proportion of between-study variance explained  Adj R-squared  =    4.78%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_ibct34	.0847644	.0448554	1.89	0.060	-.0036996	.1732284
_cons	.2061065	.0200571	10.28	0.000	.1665497	.2456633

```
. tabulate Rev_ibct35 if Filter_Overall==1
```

Rev_ibct35	Freq.	Percent	Cum.
0	188	95.43	95.43
1	9	4.57	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct35 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2           =    .03132
% residual variation due to heterogeneity        I-squared_res  =   66.19%
Proportion of between-study variance explained   Adj R-squared  =  -0.91%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_ibct35	-.0200541	.0790166	-0.25	0.800	-.1758908 .1357827
_cons	.2246791	.0187874	11.96	0.000	.1876266 .2617316

```
. tabulate Rev_ibct36 if Filter_Overall==1
```

Rev_ibct36	Freq.	Percent	Cum.
0	155	78.68	78.68
1	42	21.32	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct36 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2           =    .03133
% residual variation due to heterogeneity        I-squared_res  =   66.11%
Proportion of between-study variance explained   Adj R-squared  =  -0.92%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_ibct36	-.0019202	.0423986	-0.05	0.964	-.0855388 .0816985
_cons	.2240184	.0210108	10.66	0.000	.1825808 .2654559

```
. tabulate Rev_ibct37 if Filter_Overall==1
```

Rev_ibct37	Freq.	Percent	Cum.
0	186	94.42	94.42
1	11	5.58	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct37 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2           =    .0311
% residual variation due to heterogeneity        I-squared_res  =   65.92%
Proportion of between-study variance explained   Adj R-squared  =  -0.18%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
----	-------	-----------	---	------	----------------------

```

-----+-----
Rev_ibct37 | -.0601394 .0703824 -0.85 0.394 -.1989478 .078669
_cons | .2278223 .0189041 12.05 0.000 .1905395 .265105
-----+-----

. tabulate Rev_ibct38 if Filter_Overall==1

Rev_ibct38 | Freq. Percent Cum.
-----+-----
0 | 197 100.00 100.00
-----+-----
Total | 197 100.00

. tabulate Rev_ibct39 if Filter_Overall==1

Rev_ibct39 | Freq. Percent Cum.
-----+-----
0 | 196 99.49 99.49
1 | 1 0.51 100.00
-----+-----
Total | 197 100.00

. tabulate Rev_ibct40 if Filter_Overall==1

Rev_ibct40 | Freq. Percent Cum.
-----+-----
0 | 189 95.94 95.94
1 | 8 4.06 100.00
-----+-----
Total | 197 100.00

. metareg ES Rev_ibct40 if Filter_Overall==1, wsse(_SE) knapphartung reml

Meta-regression
REML estimate of between-study variance
% residual variation due to heterogeneity
Proportion of between-study variance explained
With Knapp-Hartung modification

Number of obs = 197
tau2 = .03134
I-squared_res = 66.17%
Adj R-squared = -0.97%

-----+-----
ES | Coef. Std. Err. t P>|t| [95% Conf. Interval]
-----+-----
Rev_ibct40 | -.0584469 .0836511 -0.70 0.486 -.223424 .1065302
_cons | .2264797 .0187271 12.09 0.000 .189546 .2634134
-----+-----

. tabulate Rev_ibct41 if Filter_Overall==1

Rev_ibct41 | Freq. Percent Cum.
-----+-----
0 | 196 99.49 99.49
1 | 1 0.51 100.00
-----+-----
Total | 197 100.00

. tabulate Rev_ibct42 if Filter_Overall==1

Rev_ibct42 | Freq. Percent Cum.
-----+-----
0 | 194 98.48 98.48
1 | 3 1.52 100.00

```

```

-----+-----
      Total |          197          100.00

. metareg ES Rev_ibct42 if Filter_Overall==1, wsse(_SE) knapphartung reml

Meta-regression                                     Number of obs =       197
REML estimate of between-study variance             tau2              =    .03144
% residual variation due to heterogeneity           I-squared_res      =   66.07%
Proportion of between-study variance explained      Adj R-squared      =   -1.27%
With Knapp-Hartung modification

-----+-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
  Rev_ibct42 |   -.0323349   .1118185    -0.29   0.773    - .2528639    .188194
    _cons |   .2244637   .0185242    12.12   0.000     .1879302    .2609972
-----+-----

. tabulate Rev_ibct43 if Filter_Overall==1

Rev_ibct43 |      Freq.      Percent      Cum.
-----+-----
      0 |          195          98.98      98.98
      1 |           2           1.02     100.00
-----+-----
    Total |          197          100.00

. tabulate Rev_ibct44 if Filter_Overall==1

Rev_ibct44 |      Freq.      Percent      Cum.
-----+-----
      0 |          197          100.00     100.00
-----+-----
    Total |          197          100.00

. tabulate Rev_ibct45 if Filter_Overall==1

Rev_ibct45 |      Freq.      Percent      Cum.
-----+-----
      0 |          197          100.00     100.00
-----+-----
    Total |          197          100.00

. tabulate Rev_ibct46 if Filter_Overall==1

Rev_ibct46 |      Freq.      Percent      Cum.
-----+-----
      0 |          197          100.00     100.00
-----+-----
    Total |          197          100.00

. tabulate Rev_ibct47 if Filter_Overall==1

Rev_ibct47 |      Freq.      Percent      Cum.
-----+-----
      0 |          197          100.00     100.00
-----+-----
    Total |          197          100.00

```

```
. tabulate Rev_ibct48 if Filter_Overall==1
```

Rev_ibct48	Freq.	Percent	Cum.
0	197	100.00	100.00
Total	197	100.00	

```
. tabulate Rev_ibct49 if Filter_Overall==1
```

Rev_ibct49	Freq.	Percent	Cum.
0	197	100.00	100.00
Total	197	100.00	

```
. tabulate Rev_ibct50 if Filter_Overall==1
```

Rev_ibct50	Freq.	Percent	Cum.
0	196	99.49	99.49
1	1	0.51	100.00
Total	197	100.00	

```
. tabulate Rev_ibct51 if Filter_Overall==1
```

Rev_ibct51	Freq.	Percent	Cum.
0	197	100.00	100.00
Total	197	100.00	

```
. tabulate Rev_ibct52 if Filter_Overall==1
```

Rev_ibct52	Freq.	Percent	Cum.
0	197	100.00	100.00
Total	197	100.00	

```
. tabulate Rev_ibct53 if Filter_Overall==1
```

Rev_ibct53	Freq.	Percent	Cum.
0	197	100.00	100.00
Total	197	100.00	

```
. tabulate Rev_ibct54 if Filter_Overall==1
```

Rev_ibct54	Freq.	Percent	Cum.
0	196	99.49	99.49
1	1	0.51	100.00
Total	197	100.00	

```
. tabulate Rev_ibct55 if Filter_Overall==1
```

Rev_ibct55	Freq.	Percent	Cum.
0	197	100.00	100.00
Total	197	100.00	

```
. tabulate Rev_ibct56 if Filter_Overall==1
```

Rev_ibct56	Freq.	Percent	Cum.
0	191	96.95	96.95
1	6	3.05	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct56 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	197
REML estimate of between-study variance	tau2	=	.03136
% residual variation due to heterogeneity	I-squared_res	=	66.10%
Proportion of between-study variance explained	Adj R-squared	=	-1.03%
With Knapp-Hartung modification			

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_ibct56	.0156497	.08909	0.18	0.861	-.1600539 .1913534
_cons	.2228684	.0186697	11.94	0.000	.186048 .2596887

```
. tabulate Rev_ibct57 if Filter_Overall==1
```

Rev_ibct57	Freq.	Percent	Cum.
0	194	98.48	98.48
1	3	1.52	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct57 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	197
REML estimate of between-study variance	tau2	=	.03121
% residual variation due to heterogeneity	I-squared_res	=	65.88%
Proportion of between-study variance explained	Adj R-squared	=	-0.53%
With Knapp-Hartung modification			

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_ibct57	-.0588741	.1339042	-0.44	0.661	-.3229605 .2052123
_cons	.224626	.0184033	12.21	0.000	.188331 .2609211

```
. tabulate Rev_ibct58 if Filter_Overall==1
```

Rev_ibct58	Freq.	Percent	Cum.
0	196	99.49	99.49
1	1	0.51	100.00

```
-----+-----
Total |      197      100.00
```

```
. tabulate Rev_ibct59 if Filter_Overall==1
```

```
Rev_ibct59 |      Freq.      Percent      Cum.
-----+-----
0 |      196      99.49      99.49
1 |       1       0.51     100.00
-----+-----
Total |      197      100.00
```

```
. tabulate Rev_ibct60 if Filter_Overall==1
```

```
Rev_ibct60 |      Freq.      Percent      Cum.
-----+-----
0 |      197     100.00     100.00
-----+-----
Total |      197     100.00
```

```
. tabulate Rev_ibct61 if Filter_Overall==1
```

```
Rev_ibct61 |      Freq.      Percent      Cum.
-----+-----
0 |      131      66.50      66.50
1 |       66      33.50     100.00
-----+-----
Total |      197     100.00
```

```
. metareg ES Rev_ibct61 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance          tau2           =    .03125
% residual variation due to heterogeneity        I-squared_res  =   66.19%
Proportion of between-study variance explained   Adj R-squared  =  -0.67%
With Knapp-Hartung modification
```

```
-----+-----
ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
Rev_ibct61 | .0270076   .037452     0.72   0.472    - .0468554   .1008706
 _cons | .2130907   .0232797    9.15   0.000     .1671784   .2590029
-----+-----
```

```
. tabulate Rev_ibct62 if Filter_Overall==1
```

```
Rev_ibct62 |      Freq.      Percent      Cum.
-----+-----
0 |      115      58.38      58.38
1 |       82      41.62     100.00
-----+-----
Total |      197     100.00
```

```
. metareg ES Rev_ibct62 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance          tau2           =    .03123
% residual variation due to heterogeneity        I-squared_res  =   66.00%
Proportion of between-study variance explained   Adj R-squared  =  -0.60%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_ibct62	.017845	.0366062	0.49	0.626	-.0543498	.0900398
_cons	.2153804	.0247229	8.71	0.000	.1666218	.264139

```
. tabulate Rev_ibct63 if Filter_Overall==1
```

Rev_ibct63	Freq.	Percent	Cum.
0	164	83.25	83.25
1	33	16.75	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct63 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance          tau2              =   .03064
% residual variation due to heterogeneity         I-squared_res     =  65.58%
Proportion of between-study variance explained    Adj R-squared     =   1.29%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_ibct63	.0547593	.0468665	1.17	0.244	-.037671	.1471897
_cons	.2133252	.0200617	10.63	0.000	.1737594	.252891

```
. tabulate Rev_ibct64 if Filter_Overall==1
```

Rev_ibct64	Freq.	Percent	Cum.
0	131	66.50	66.50
1	66	33.50	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct64 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance          tau2              =   .03085
% residual variation due to heterogeneity         I-squared_res     =  65.66%
Proportion of between-study variance explained    Adj R-squared     =   0.61%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_ibct64	.0388447	.0372544	1.04	0.298	-.0346286	.112318
_cons	.208284	.0232528	8.96	0.000	.1624248	.2541432

```
. tabulate Rev_ibct65 if Filter_Overall==1
```

Rev_ibct65	Freq.	Percent	Cum.
0	181	91.88	91.88
1	16	8.12	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct65 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```

Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2          =    .02987
% residual variation due to heterogeneity        I-squared_res =   64.78%
Proportion of between-study variance explained   Adj R-squared  =    3.77%
With Knapp-Hartung modification

```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_ibct65	.1018652	.0579116	1.76	0.080	-.0123484	.2160788
_cons	.2121129	.019057	11.13	0.000	.1745286	.2496972

```
. tabulate Rev_ibct66 if Filter_Overall==1
```

Rev_ibct66	Freq.	Percent	Cum.
0	194	98.48	98.48
1	3	1.52	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct66 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```

Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2          =    .03109
% residual variation due to heterogeneity        I-squared_res =   66.10%
Proportion of between-study variance explained   Adj R-squared  =   -0.14%
With Knapp-Hartung modification

```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_ibct66	.1134203	.1616651	0.70	0.484	-.2054163	.4322568
_cons	.2220234	.0183258	12.12	0.000	.1858813	.2581656

```
. tabulate Rev_ibct67 if Filter_Overall==1
```

Rev_ibct67	Freq.	Percent	Cum.
0	184	93.40	93.40
1	13	6.60	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct67 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```

Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2          =    .03128
% residual variation due to heterogeneity        I-squared_res =   65.86%
Proportion of between-study variance explained   Adj R-squared  =   -0.76%
With Knapp-Hartung modification

```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_ibct67	-.0220671	.0678486	-0.33	0.745	-.1558784	.1117441
_cons	.2252639	.0190012	11.86	0.000	.1877897	.2627381

```
. tabulate Rev_ibct68 if Filter_Overall==1
```

Rev_ibct68	Freq.	Percent	Cum.
0	185	93.91	93.91

1	12	6.09	100.00
-----+-----			
Total	197	100.00	

. metareg ES Rev_ibct68 if Filter_Overall==1, wsse(_SE) knapphartung reml

```

Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2           =    .03131
% residual variation due to heterogeneity        I-squared_res  =   66.17%
Proportion of between-study variance explained   Adj R-squared  =   -0.86%
With Knapp-Hartung modification

```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_ibct68	-.0256234	.069981	-0.37	0.715	-.1636402	.1123935
_cons	.2254216	.0189548	11.89	0.000	.1880388	.2628043

. tabulate Rev_ibct69 if Filter_Overall==1

Rev_ibct69	Freq.	Percent	Cum.
-----+-----			
0	188	95.43	95.43
1	9	4.57	100.00
-----+-----			
Total	197	100.00	

. metareg ES Rev_ibct69 if Filter_Overall==1, wsse(_SE) knapphartung reml

```

Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2           =    .03132
% residual variation due to heterogeneity        I-squared_res  =   66.17%
Proportion of between-study variance explained   Adj R-squared  =   -0.89%
With Knapp-Hartung modification

```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_ibct69	-.0071676	.0840415	-0.09	0.932	-.1729147	.1585794
_cons	.2238996	.0187179	11.96	0.000	.1869841	.2608151

. tabulate Rev_ibct70 if Filter_Overall==1

Rev_ibct70	Freq.	Percent	Cum.
-----+-----			
0	182	92.39	92.39
1	15	7.61	100.00
-----+-----			
Total	197	100.00	

. metareg ES Rev_ibct70 if Filter_Overall==1, wsse(_SE) knapphartung reml

```

Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2           =    .0307
% residual variation due to heterogeneity        I-squared_res  =   66.00%
Proportion of between-study variance explained   Adj R-squared  =    1.11%
With Knapp-Hartung modification

```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_ibct70	.0861891	.0691416	1.25	0.214	-.0501723	.2225505
_cons	.2169647	.0188549	11.51	0.000	.1797791	.2541503

```
. tabulate Rev_ibct71 if Filter_Overall==1
```

Rev_ibct71	Freq.	Percent	Cum.
0	163	82.74	82.74
1	34	17.26	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct71 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	197
REML estimate of between-study variance	tau2 =	.03117
% residual variation due to heterogeneity	I-squared_res =	65.82%
Proportion of between-study variance explained	Adj R-squared =	-0.42%
With Knapp-Hartung modification		

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_ibct71	-.0229237	.0515379	-0.44	0.657	-.124567 .0787196
_cons	.226862	.0197242	11.50	0.000	.1879618 .2657622

```
. tabulate Rev_ibct72 if Filter_Overall==1
```

Rev_ibct72	Freq.	Percent	Cum.
0	196	99.49	99.49
1	1	0.51	100.00
Total	197	100.00	

```
. tabulate Rev_ibct73 if Filter_Overall==1
```

Rev_ibct73	Freq.	Percent	Cum.
0	197	100.00	100.00
Total	197	100.00	

```
. tabulate Rev_ibct74 if Filter_Overall==1
```

Rev_ibct74	Freq.	Percent	Cum.
0	197	100.00	100.00
Total	197	100.00	

```
. tabulate Rev_ibct75 if Filter_Overall==1
```

Rev_ibct75	Freq.	Percent	Cum.
0	191	96.95	96.95
1	6	3.05	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct75 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```

Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2          =    .03128
% residual variation due to heterogeneity        I-squared_res =   66.14%
Proportion of between-study variance explained   Adj R-squared  =  -0.75%
With Knapp-Hartung modification

```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_ibct75	.1122471	.1038786	1.08	0.281	-.0926228	.3171169
_cons	.2199576	.0185379	11.87	0.000	.1833971	.2565182

```
. tabulate Rev_ibct76 if Filter_Overall==1
```

Rev_ibct76	Freq.	Percent	Cum.
0	193	97.97	97.97
1	4	2.03	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct76 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```

Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2          =    .03118
% residual variation due to heterogeneity        I-squared_res =   66.19%
Proportion of between-study variance explained   Adj R-squared  =  -0.43%
With Knapp-Hartung modification

```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_ibct76	-.0353339	.1841527	-0.19	0.848	-.3985205	.3278528
_cons	.2238543	.0183136	12.22	0.000	.187736	.2599725

```
. tabulate Rev_ibct77 if Filter_Overall==1
```

Rev_ibct77	Freq.	Percent	Cum.
0	197	100.00	100.00
Total	197	100.00	

```
. tabulate Rev_ibct78 if Filter_Overall==1
```

Rev_ibct78	Freq.	Percent	Cum.
0	145	73.60	73.60
1	52	26.40	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct78 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```

Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2          =    .03128
% residual variation due to heterogeneity        I-squared_res =   66.05%
Proportion of between-study variance explained   Adj R-squared  =  -0.75%
With Knapp-Hartung modification

```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
----	-------	-----------	---	------	----------------------	--

Rev_ibct78	.0188299	.0423708	0.44	0.657	-.064734	.1023938
_cons	.2189061	.0210018	10.42	0.000	.1774863	.2603259

```
. tabulate Rev_ibct79 if Filter_Overall==1
```

Rev_ibct79	Freq.	Percent	Cum.
0	193	97.97	97.97
1	4	2.03	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct79 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	197
REML estimate of between-study variance	tau2 =	.03089
% residual variation due to heterogeneity	I-squared_res =	64.64%
Proportion of between-study variance explained	Adj R-squared =	0.50%
With Knapp-Hartung modification		

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_ibct79	-.1110113	.1101214	-1.01	0.315	-.3281932 .1061705
_cons	.2265362	.0184329	12.29	0.000	.1901827 .2628898

```
. tabulate Rev_ibct80 if Filter_Overall==1
```

Rev_ibct80	Freq.	Percent	Cum.
0	158	80.20	80.20
1	39	19.80	100.00
Total	197	100.00	

```
. metareg ES Rev_ibct80 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	197
REML estimate of between-study variance	tau2 =	.03022
% residual variation due to heterogeneity	I-squared_res =	64.87%
Proportion of between-study variance explained	Adj R-squared =	2.66%
With Knapp-Hartung modification		

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_ibct80	-.0972887	.0464019	-2.10	0.037	-.1888028 -.0057746
_cons	.2413385	.0200134	12.06	0.000	.201868 .2808089

```
. tabulate Rev_ibct81 if Filter_Overall==1
```

Rev_ibct81	Freq.	Percent	Cum.
0	197	100.00	100.00
Total	197	100.00	

```
. tabulate Rev_ibct82 if Filter_Overall==1
```

Rev_ibct82	Freq.	Percent	Cum.
------------	-------	---------	------

0	196	99.49	99.49
1	1	0.51	100.00
-----+-----			
Total	197	100.00	

```
. tabulate Rev_ibct83 if Filter_Overall==1
```

Rev_ibct83	Freq.	Percent	Cum.
-----+-----			
0	197	100.00	100.00
-----+-----			
Total	197	100.00	

```
. tabulate Rev_ibct84 if Filter_Overall==1
```

Rev_ibct84	Freq.	Percent	Cum.
-----+-----			
0	188	95.43	95.43
1	9	4.57	100.00
-----+-----			
Total	197	100.00	

```
. metareg ES Rev_ibct84 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	197
REML estimate of between-study variance	tau2	.03138
% residual variation due to heterogeneity	I-squared_res	66.07%
Proportion of between-study variance explained	Adj R-squared	-1.08%
With Knapp-Hartung modification		

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_ibct84	.0082231	.0763521	0.11	0.914	-.1423588	.1588051
_cons	.2230593	.0188404	11.84	0.000	.1859021	.2602165

```
. tabulate Rev_ibct85 if Filter_Overall==1
```

Rev_ibct85	Freq.	Percent	Cum.
-----+-----			
0	164	83.25	83.25
1	33	16.75	100.00
-----+-----			
Total	197	100.00	

```
. metareg ES Rev_ibct85 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	197
REML estimate of between-study variance	tau2	.03059
% residual variation due to heterogeneity	I-squared_res	65.56%
Proportion of between-study variance explained	Adj R-squared	1.46%
With Knapp-Hartung modification		

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_ibct85	-.0804735	.0511568	-1.57	0.117	-.1813652	.0204181
_cons	.2351842	.0196223	11.99	0.000	.196485	.2738835

```
. tabulate Rev_ibct86 if Filter_Overall==1
```

Rev_ibct86	Freq.	Percent	Cum.
0	196	99.49	99.49
1	1	0.51	100.00
Total	197	100.00	

```
. tabulate Rev_ibct87 if Filter_Overall==1
```

Rev_ibct87	Freq.	Percent	Cum.
0	197	100.00	100.00
Total	197	100.00	

```
. tabulate Rev_ibct88 if Filter_Overall==1
```

Rev_ibct88	Freq.	Percent	Cum.
0	197	100.00	100.00
Total	197	100.00	

```
. tabulate Rev_ibct89 if Filter_Overall==1
```

Rev_ibct89	Freq.	Percent	Cum.
0	196	99.49	99.49
1	1	0.51	100.00
Total	197	100.00	

Clusters

Model Overall_U2a

```
.
. tabulate Rev_Cluster1_SS if Filter_Overall==1
```

Cluster1:			
Social			
Support -			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
-----+-----			
0	63	31.98	31.98
1	134	68.02	100.00
-----+-----			
Total	197	100.00	

```
.
. metareg ES Rev_Cluster1_SS if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	197
REML estimate of between-study variance	tau2	=	.0312
% residual variation due to heterogeneity	I-squared_res	=	65.98%
Proportion of between-study variance explained	Adj R-squared	=	-0.50%
With Knapp-Hartung modification			

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----					
Rev_Cluster1_SS	.0165841	.0395204	0.42	0.675	-.0613581 .0945264
_cons	.2120165	.0329021	6.44	0.000	.1471269 .2769061
-----+-----					

```
.
.
Model Overall_U2b
```

```
.
. tabulate Rev_Cluster2_Reg if Filter_Overall==1
```

Cluster2:			
Regulation			
-			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
-----+-----			
0	146	74.11	74.11
1	51	25.89	100.00
-----+-----			
Total	197	100.00	

```
.
. metareg ES Rev_Cluster2_Reg if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	197
REML estimate of between-study variance	tau2	=	.0298
% residual variation due to heterogeneity	I-squared_res	=	63.12%
Proportion of between-study variance explained	Adj R-squared	=	4.01%
With Knapp-Hartung modification			

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_Cluster2_Reg	.0939406	.0419547	2.24	0.026	.0111974	.1766838
_cons	.2003381	.0206621	9.70	0.000	.1595881	.2410881

```
.
.
Model Overall_U2c
.
. tabulate Rev_Cluster3_FM if Filter_Overall==1
```

Cluster3:			
Feedback &			
Monitoring			
-			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
0	109	55.33	55.33
1	88	44.67	100.00
Total	197	100.00	

```
.
. metareg ES Rev_Cluster3_FM if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance          tau2              =   .03076
% residual variation due to heterogeneity         I-squared_res     =  65.65%
Proportion of between-study variance explained    Adj R-squared     =   0.92%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_Cluster3_FM	-.0487642	.0364384	-1.34	0.182	-.1206281	.0230998
_cons	.2456585	.0246234	9.98	0.000	.197096	.2942209

```
.
.
Model Overall_U2d
.
. tabulate Rev_Cluster4_Asc if Filter_Overall==1
```

Cluster4:			
Association			
s -			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
0	192	97.46	97.46
1	5	2.54	100.00
Total	197	100.00	

```
.
. metareg ES Rev_Cluster4_Asc if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```

Meta-regression
REML estimate of between-study variance
% residual variation due to heterogeneity
Proportion of between-study variance explained
With Knapp-Hartung modification
Number of obs = 197
tau2 = .03126
I-squared_res = 66.15%
Adj R-squared = -0.71%

```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_Cluster4_Asc	.0686156	.1105839	0.62	0.536	-.1494784	.2867097
_cons	.2216086	.0184986	11.98	0.000	.1851255	.2580916

```

.
.
Model Overall_U2e
.
. tabulate Rev_Cluster5_RS if Filter_Overall==1

```

```

Cluster5: |
Repetition |
and |
Substitutio |
ns - |
Controlling |
for |
comparator |
use | Freq. Percent Cum.
-----+-----
0 | 157 79.70 79.70
1 | 40 20.30 100.00
-----+-----
Total | 197 100.00

```

```

.
. metareg ES Rev_Cluster5_RS if Filter_Overall==1, wsse(_SE) knapphartung reml

```

```

Meta-regression
REML estimate of between-study variance
% residual variation due to heterogeneity
Proportion of between-study variance explained
With Knapp-Hartung modification
Number of obs = 197
tau2 = .02931
I-squared_res = 64.29%
Adj R-squared = 5.58%

```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_Cluster5_RS	.0870299	.0420356	2.07	0.040	.0041272	.1699326
_cons	.202287	.0204992	9.87	0.000	.1618583	.2427157

```

.
.
Model Overall_U2f
.
. tabulate Rev_Cluster6_Ant if Filter_Overall==1

```

```

Cluster6: |
Antecedents |
- |
Controlling |
for |
comparator |
use | Freq. Percent Cum.
-----+-----
0 | 150 76.14 76.14

```

1	47	23.86	100.00
-----+-----			
Total	197	100.00	

```
.
. metareg ES Rev_Cluster6_Ant if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	197
REML estimate of between-study variance	tau2 =	.02927
% residual variation due to heterogeneity	I-squared_res =	62.59%
Proportion of between-study variance explained	Adj R-squared =	5.71%
With Knapp-Hartung modification		

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----					
Rev_Cluster6_Ant	.0884355	.0415777	2.13	0.035	.0064357 .1704353
_cons	.2012799	.0205922	9.77	0.000	.1606678 .241892

```
.
.
Model Overall_U2g
```

```
. tabulate Rev_Cluster7_SK if Filter_Overall==1
```

Cluster7:			
Shaping			
Knowledge -			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
-----+-----			
0	151	76.65	76.65
1	46	23.35	100.00
-----+-----			
Total	197	100.00	

```
.
. metareg ES Rev_Cluster7_SK if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	197
REML estimate of between-study variance	tau2 =	.03127
% residual variation due to heterogeneity	I-squared_res =	66.03%
Proportion of between-study variance explained	Adj R-squared =	-0.72%
With Knapp-Hartung modification		

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----					
Rev_Cluster7_SK	-.0171657	.0410561	-0.42	0.676	-.0981366 .0638053
_cons	.2281732	.0213542	10.69	0.000	.1860583 .2702882

```
.
.
Model Overall_U2h
```

```
. tabulate Rev_Cluster8_SB if Filter_Overall==1
```

Cluster8:
Self-belief
-
Controlling

for			
comparator			
use	Freq.	Percent	Cum.
-----+-----			
0	185	93.91	93.91
1	12	6.09	100.00
-----+-----			
Total	197	100.00	

```
.
. metareg ES Rev_Cluster8_SB if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                      Number of obs =      197
REML estimate of between-study variance      tau2          =      .0311
% residual variation due to heterogeneity    I-squared_res  =    65.88%
Proportion of between-study variance explained  Adj R-squared  =    -0.18%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----					
Rev_Cluster8_SB	-.0661654	.0658293	-1.01	0.316	-.1959941 .0636633
_cons	.2290085	.0190212	12.04	0.000	.1914948 .2665222
-----+-----					

```
.
.
Model Overall_U2i
```

```
. tabulate Rev_Cluster9_SC if Filter_Overall==1
```

Cluster9:			
Scheduled			
Consequence			
s -			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
-----+-----			
0	196	99.49	99.49
1	1	0.51	100.00
-----+-----			
Total	197	100.00	

```
.
.
Model Overall_U2j
```

```
. tabulate Rev_Cluster10_RT if Filter_Overall==1
```

Cluster10:			
Reward &			
Threat -			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
-----+-----			
0	186	94.42	94.42
1	11	5.58	100.00
-----+-----			
Total	197	100.00	

```
.
. metareg ES Rev_Cluster10_RT if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2              =    .03123
% residual variation due to heterogeneity       I-squared_res     =   66.15%
Proportion of between-study variance explained  Adj R-squared     =  -0.61%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_Cluster10_RT	-.0509412	.0685505	-0.74	0.458	-.1861367	.0842544
_cons	.2274233	.0189742	11.99	0.000	.1900024	.2648443

```
.
.
Model Overall_U2k
```

```
. tabulate Rev_Cluster11_GP if Filter_Overall==1
```

```
Cluster11: |
  Goals & |
  Planning - |
Controlling |
    for |
  comparator |
    use |      Freq.      Percent      Cum.
-----+-----
```

0	70	35.53	35.53
1	127	64.47	100.00
Total	197	100.00	

```
.
. metareg ES Rev_Cluster11_GP if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2              =    .0313
% residual variation due to heterogeneity       I-squared_res     =   66.02%
Proportion of between-study variance explained  Adj R-squared     =  -0.83%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_Cluster11_GP	-.0025928	.0395427	-0.07	0.948	-.0805792	.0753935
_cons	.2253347	.0329103	6.85	0.000	.1604288	.2902407

```
.
.
Model Overall_U2l
```

```
. tabulate Rev_Cluster12_CO if Filter_Overall==1
```

```
Cluster12: |
  Comparison |
of Outcomes |
    - |
Controlling |
    for |
  comparator |
    use |      Freq.      Percent      Cum.
```

-----+-----			
0	148	75.13	75.13
1	49	24.87	100.00
-----+-----			
Total	197	100.00	

```
.
. metareg ES Rev_Cluster12_CO if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2              =    .03127
% residual variation due to heterogeneity        I-squared_res     =   66.18%
Proportion of between-study variance explained   Adj R-squared     =  -0.72%
With Knapp-Hartung modification
```

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_Cluster12_CO	.0208244	.0438886	0.47	0.636	-.0657328	.1073816
_cons	.2189073	.020677	10.59	0.000	.178128	.2596866
-----+-----						

```
.
.
Model Overall_U2m
```

```
. tabulate Rev_Cluster13_Id if Filter_Overall==1
```

Cluster13:			
Identity -			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
-----+-----			
0	188	95.43	95.43
1	9	4.57	100.00
-----+-----			
Total	197	100.00	

```
.
. metareg ES Rev_Cluster13_Id if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2              =    .03122
% residual variation due to heterogeneity        I-squared_res     =   66.15%
Proportion of between-study variance explained   Adj R-squared     =  -0.58%
With Knapp-Hartung modification
```

-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_Cluster13_Id	.0731295	.092546	0.79	0.430	-.10939	.2556491
_cons	.2205601	.0186112	11.85	0.000	.1838551	.2572651
-----+-----						

```
.
.
Model Overall_U2n
```

```
. tabulate Rev_Cluster14_NC if Filter_Overall==1
```

```
Cluster14: |
Natural |
Consequence |
```

s -			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
-----+-----			
0	129	65.48	65.48
1	68	34.52	100.00
-----+-----			
Total	197	100.00	

```
.
. metareg ES Rev_Cluster14_NC if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2              =   .03119
% residual variation due to heterogeneity        I-squared_res     =  65.61%
Proportion of between-study variance explained  Adj R-squared     = -0.48%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_Cluster14_NC	-.0214691	.0392077	-0.55	0.585	-.0987947	.0558565
_cons	.2302902	.0220347	10.45	0.000	.1868333	.2737471
-----+-----						

```
.
.
Model Overall_U2o
```

```
.
. tabulate Rev_Cluster15_CB if Filter_Overall==1
```

Cluster15:			
Comparison			
of			
Behaviour -			
Controlling			
for			
comparator			
use	Freq.	Percent	Cum.
-----+-----			
0	154	78.17	78.17
1	43	21.83	100.00
-----+-----			
Total	197	100.00	

```
.
. metareg ES Rev_Cluster15_CB if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2              =   .03107
% residual variation due to heterogeneity        I-squared_res     =  66.03%
Proportion of between-study variance explained  Adj R-squared     = -0.09%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_Cluster15_CB	-.0429201	.0441065	-0.97	0.332	-.1299071	.0440668
_cons	.2328245	.020584	11.31	0.000	.1922286	.2734204
-----+-----						

Model Overall_U2p

```
.
. tabulate Rev_Cluster16_CL if Filter_Overall==1
```

Cluster16:				
Covert				
Learning -				
Controlling				
for				
comparator				
use		Freq.	Percent	Cum.
-----+-----				
0		196	99.49	99.49
1		1	0.51	100.00
-----+-----				
Total		197	100.00	

```
.
.
.
Intervention function
```

Model Overall_U3a

```
.
. tabulate Rev_iif1 if Filter_Overall==1
```

Rev_iif1		Freq.	Percent	Cum.
-----+-----				
0		91	46.19	46.19
1		106	53.81	100.00
-----+-----				
Total		197	100.00	

```
.
. metareg ES Rev_iif1 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	197
REML estimate of between-study variance	tau2	=	.03108
% residual variation due to heterogeneity	I-squared_res	=	65.58%
Proportion of between-study variance explained	Adj R-squared	=	-0.11%
With Knapp-Hartung modification			

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_iif1	-.0269619	.0364626	-0.74	0.461	-.0988735	.0449498
_cons	.2376664	.0264503	8.99	0.000	.185501	.2898317

```
.
.
Intervention functions
```

Model Overall_U3a

```
.
. tabulate Rev_iif1 if Filter_Overall==1
```

Rev_iif1		Freq.	Percent	Cum.
-----+-----				
0		91	46.19	46.19
1		106	53.81	100.00
-----+-----				
Total		197	100.00	

```
.
. metareg ES Rev_iif1                                if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance          tau2              =    .03108
% residual variation due to heterogeneity         I-squared_res     =   65.58%
Proportion of between-study variance explained    Adj R-squared      =   -0.11%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_iif1	-.0269619	.0364626	-0.74	0.461	-.0988735	.0449498
_cons	.2376664	.0264503	8.99	0.000	.185501	.2898317

```
.
.
Model Overall_U3b
```

```
. tabulate Rev_iif2                                if Filter_Overall==1
```

Rev_iif2	Freq.	Percent	Cum.
0	143	72.59	72.59
1	54	27.41	100.00
Total	197	100.00	

```
.
. metareg ES Rev_iif2                                if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance          tau2              =    .03121
% residual variation due to heterogeneity         I-squared_res     =   65.89%
Proportion of between-study variance explained    Adj R-squared      =   -0.52%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_iif2	-.0228607	.0414264	-0.55	0.582	-.104562	.0588406
_cons	.2295148	.0212261	10.81	0.000	.1876526	.271377

```
.
.
Model Overall_U3c
```

```
. tabulate Rev_iif3                                if Filter_Overall==1
```

Rev_iif3	Freq.	Percent	Cum.
0	181	91.88	91.88
1	16	8.12	100.00
Total	197	100.00	

```
.
. metareg ES Rev_iif3                                if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance          tau2              =    .03113
% residual variation due to heterogeneity         I-squared_res     =   66.12%
```

Proportion of between-study variance explained Adj R-squared = -0.27%
 With Knapp-Hartung modification

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_iif3	-.06881	.062391	-1.10	0.271	-.1918578	.0542377
_cons	.2299659	.0191372	12.02	0.000	.1922234	.2677085

```
.
.
Model Overall_U3d
.
. tabulate Rev_iif4 if Filter_Overall==1
```

Rev_iif4	Freq.	Percent	Cum.
0	194	98.48	98.48
1	3	1.52	100.00
Total	197	100.00	

```
.
. metareg ES Rev_iif4 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression Number of obs = 197
 REML estimate of between-study variance tau2 = .03112
 % residual variation due to heterogeneity I-squared_res = 66.09%
 Proportion of between-study variance explained Adj R-squared = -0.26%
 With Knapp-Hartung modification

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_iif4	-.1397637	.1297669	-1.08	0.283	-.3956905	.1161632
_cons	.2263007	.0183998	12.30	0.000	.1900124	.2625889

```
.
.
Model Overall_U3e
.
. tabulate Rev_iif5 if Filter_Overall==1
```

Rev_iif5	Freq.	Percent	Cum.
0	141	71.57	71.57
1	56	28.43	100.00
Total	197	100.00	

```
.
. metareg ES Rev_iif5 if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression Number of obs = 197
 REML estimate of between-study variance tau2 = .03124
 % residual variation due to heterogeneity I-squared_res = 66.19%
 Proportion of between-study variance explained Adj R-squared = -0.65%
 With Knapp-Hartung modification

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_iif5	.0214131	.038715	0.55	0.581	-.0549407	.0977668

```

      _cons |      .2164103      .0223137      9.70      0.000      .1724032      .2604174
-----

```

```

.
.
Model Overall_U3f
.
. tabulate Rev_iif6                                if Filter_Overall==1

```

```

      Rev_iif6 |      Freq.      Percent      Cum.
-----+-----
          0 |          197          100.00         100.00
-----+-----
      Total |          197          100.00

```

```

.
.
Model Overall_U3g
.
. tabulate Rev_iif7                                if Filter_Overall==1

```

```

      Rev_iif7 |      Freq.      Percent      Cum.
-----+-----
          0 |          170           86.29         86.29
          1 |           27           13.71         100.00
-----+-----
      Total |          197          100.00

```

```

.
. metareg ES Rev_iif7                                if Filter_Overall==1, wsse(_SE) knapphartung
reml

```

```

Meta-regression                                Number of obs =      197
REML estimate of between-study variance          tau2          =    .02852
% residual variation due to heterogeneity        I-squared_res   =   61.95%
Proportion of between-study variance explained  Adj R-squared   =    8.13%
With Knapp-Hartung modification

```

```

-----
      ES |      Coef.      Std. Err.      t    P>|t|      [95% Conf. Interval]
-----+-----
  Rev_iif7 |    .1295199    .0496624      2.61  0.010    .0315755    .2274642
    _cons |    .2032681    .0192632     10.55  0.000    .1652771    .2412591
-----

```

```

.
.
Model Overall_U3h
.
. tabulate Rev_iif8                                if Filter_Overall==1

```

```

      Rev_iif8 |      Freq.      Percent      Cum.
-----+-----
          0 |          189           95.94         95.94
          1 |           8            4.06         100.00
-----+-----
      Total |          197          100.00

```

```

.
. metareg ES Rev_iif8                                if Filter_Overall==1, wsse(_SE) knapphartung
reml

```

```

Meta-regression                                Number of obs =      197
REML estimate of between-study variance          tau2          =    .03139

```

```
% residual variation due to heterogeneity      I-squared_res = 66.12%
Proportion of between-study variance explained  Adj R-squared = -1.12%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_iif8	.0304389	.0812346	0.37	0.708	-.1297724	.1906501
_cons	.2219388	.0187678	11.83	0.000	.1849248	.2589527

```
.
.
Model Overall_U3i
```

```
. tabulate Rev_iif9 if Filter_Overall==1
```

Rev_iif9	Freq.	Percent	Cum.
0	49	24.87	24.87
1	148	75.13	100.00
Total	197	100.00	

```
.
. metareg ES Rev_iif9 if Filter_Overall==1, wsse(_SE) knapphartung
reml
```

```
Meta-regression      Number of obs = 197
REML estimate of between-study variance      tau2 = .03128
% residual variation due to heterogeneity      I-squared_res = 66.04%
Proportion of between-study variance explained  Adj R-squared = -0.76%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_iif9	.0094729	.0424268	0.22	0.824	-.0742013	.0931472
_cons	.2163792	.0368709	5.87	0.000	.1436622	.2890961

Theory-basedness

```
Model ALC_U3
```

```
.
. tabulate itb if Filter_Overall==1
```

ITB	Freq.	Percent	Cum.
No	138	70.05	70.05
Yes	59	29.95	100.00
Total	197	100.00	

```
.
. metareg ES itb if Filter_Overall==1, wsse(_SE) knapphartung reml
```

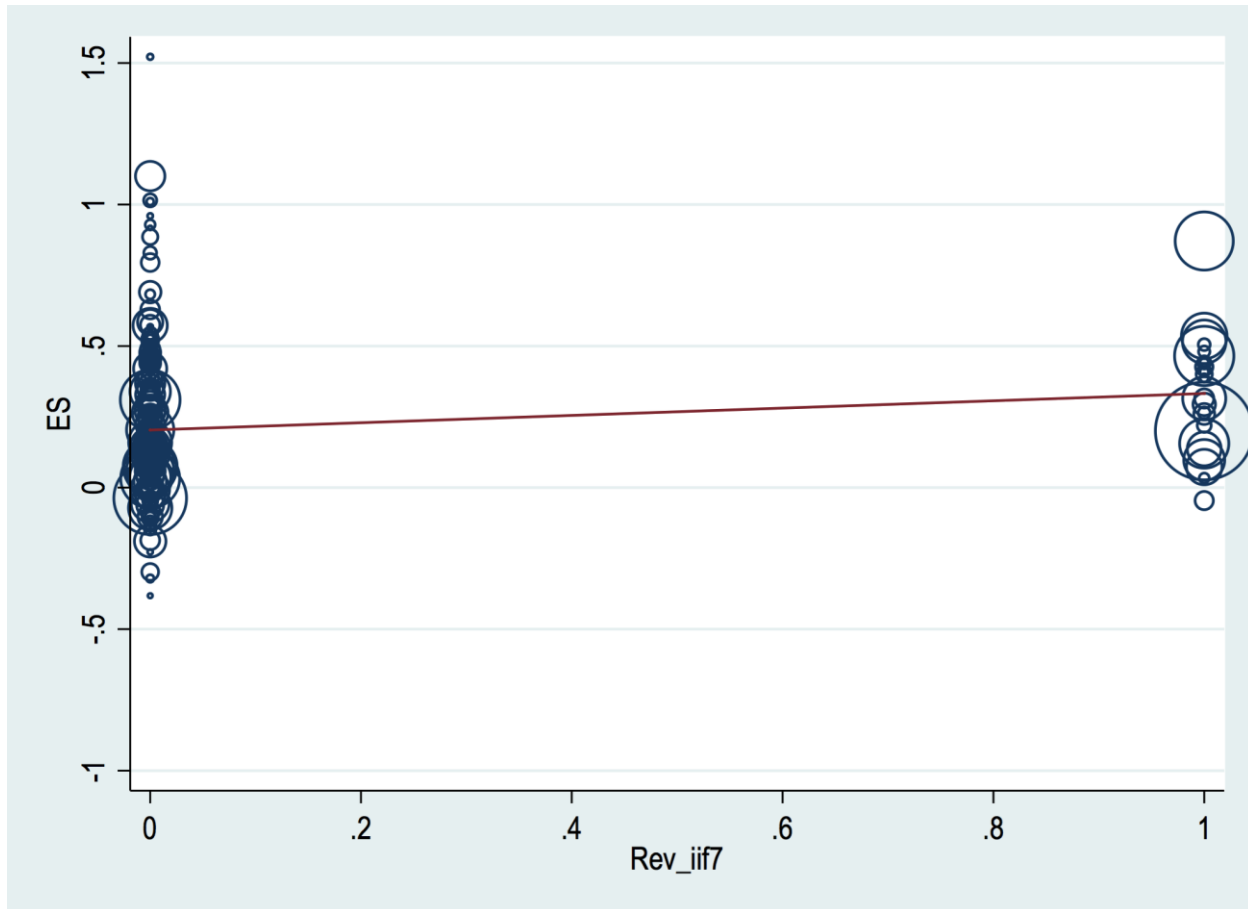
```
Meta-regression      Number of obs = 197
REML estimate of between-study variance      tau2 = .0312
% residual variation due to heterogeneity      I-squared_res = 66.11%
Proportion of between-study variance explained  Adj R-squared = -0.51%
With Knapp-Hartung modification
```

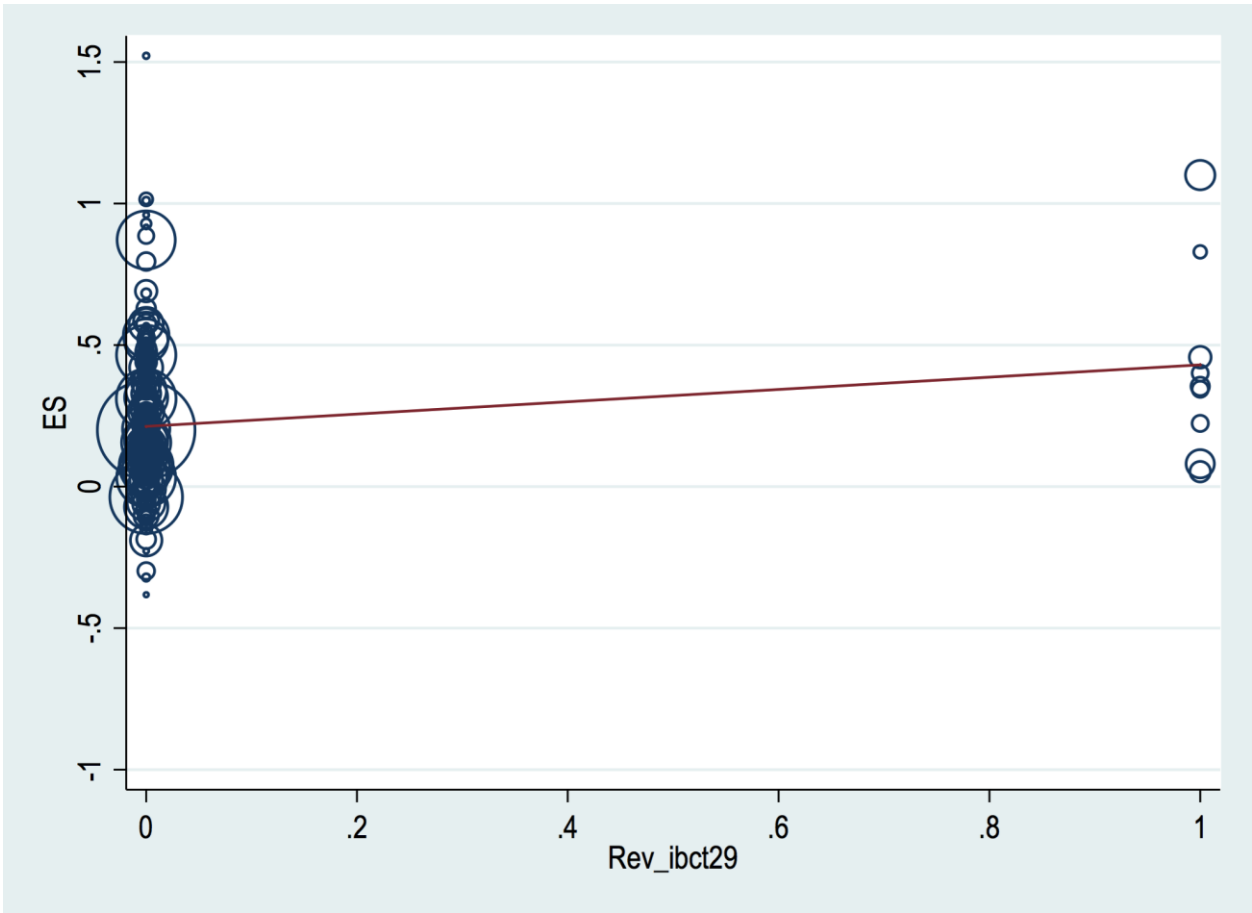
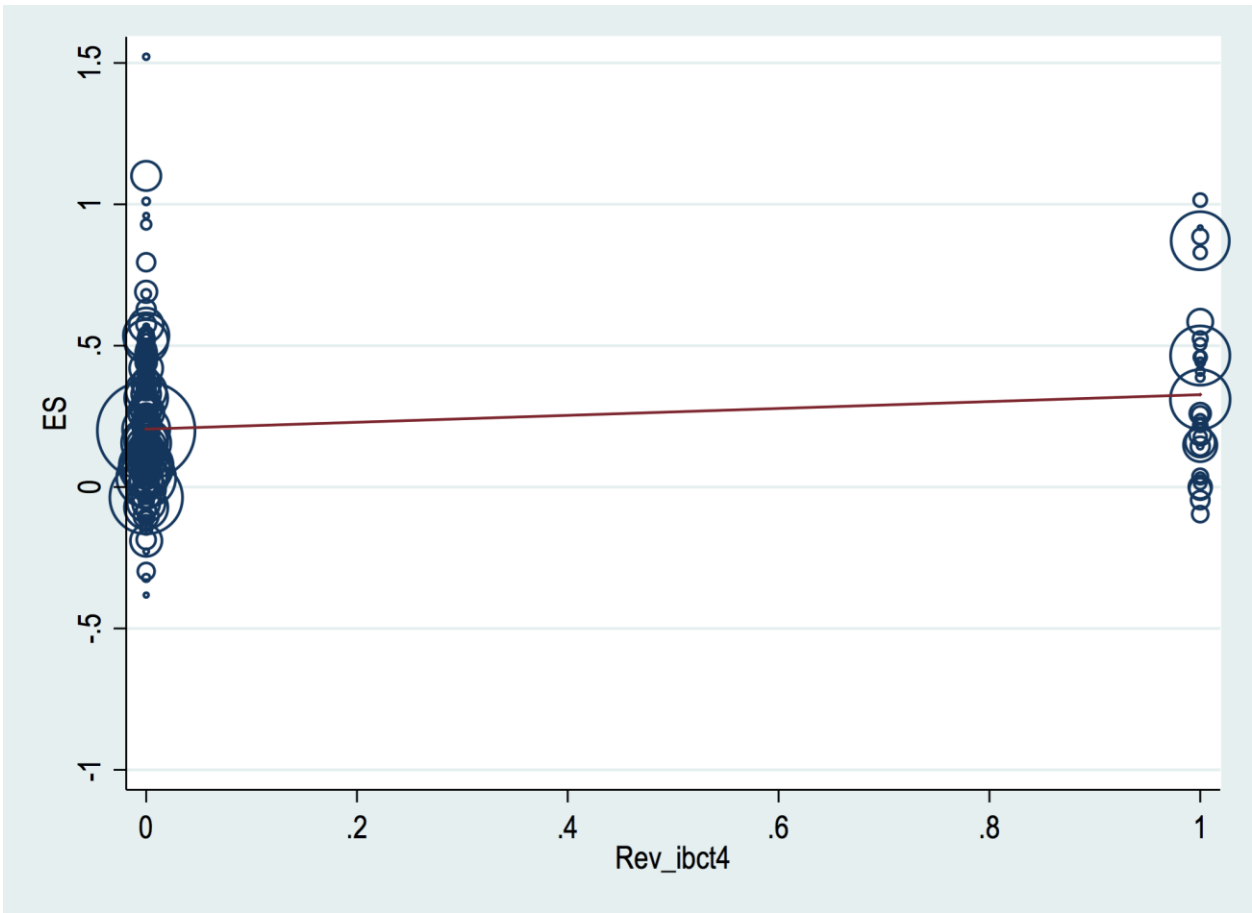
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
----	-------	-----------	---	------	----------------------	--

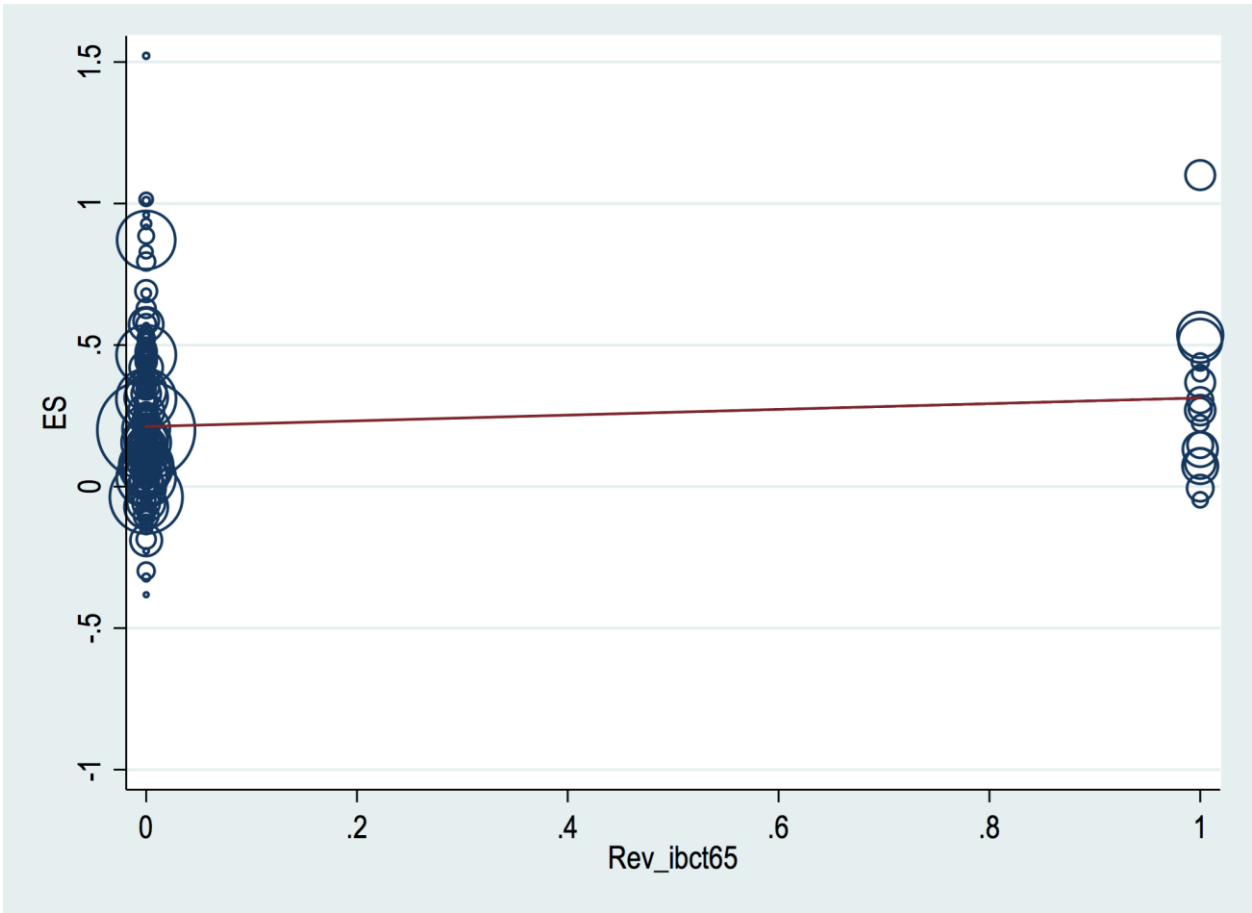
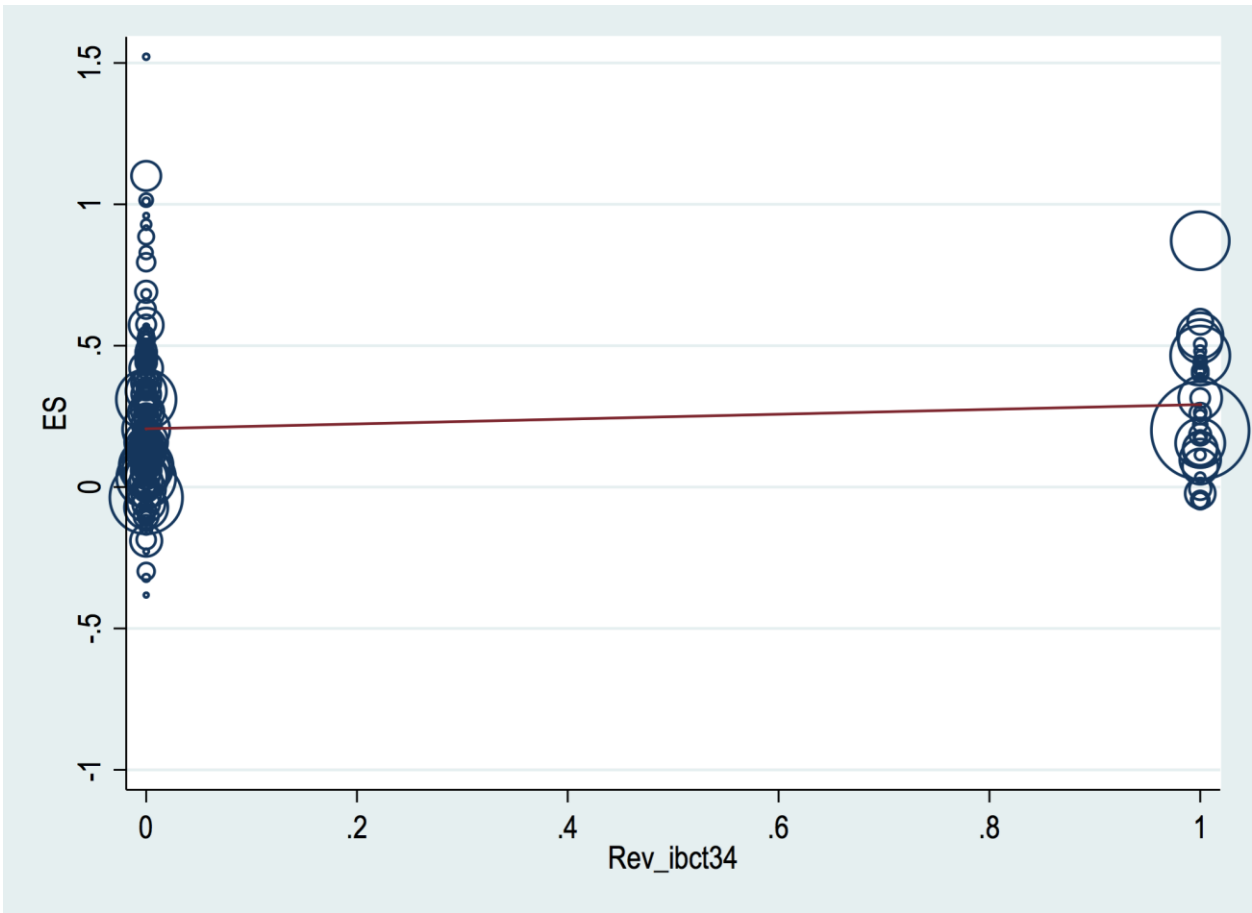
itb	-.0131241	.0406097	-0.32	0.747	-.0932147	.0669664
_cons	.2271827	.0214766	10.58	0.000	.1848265	.2695389

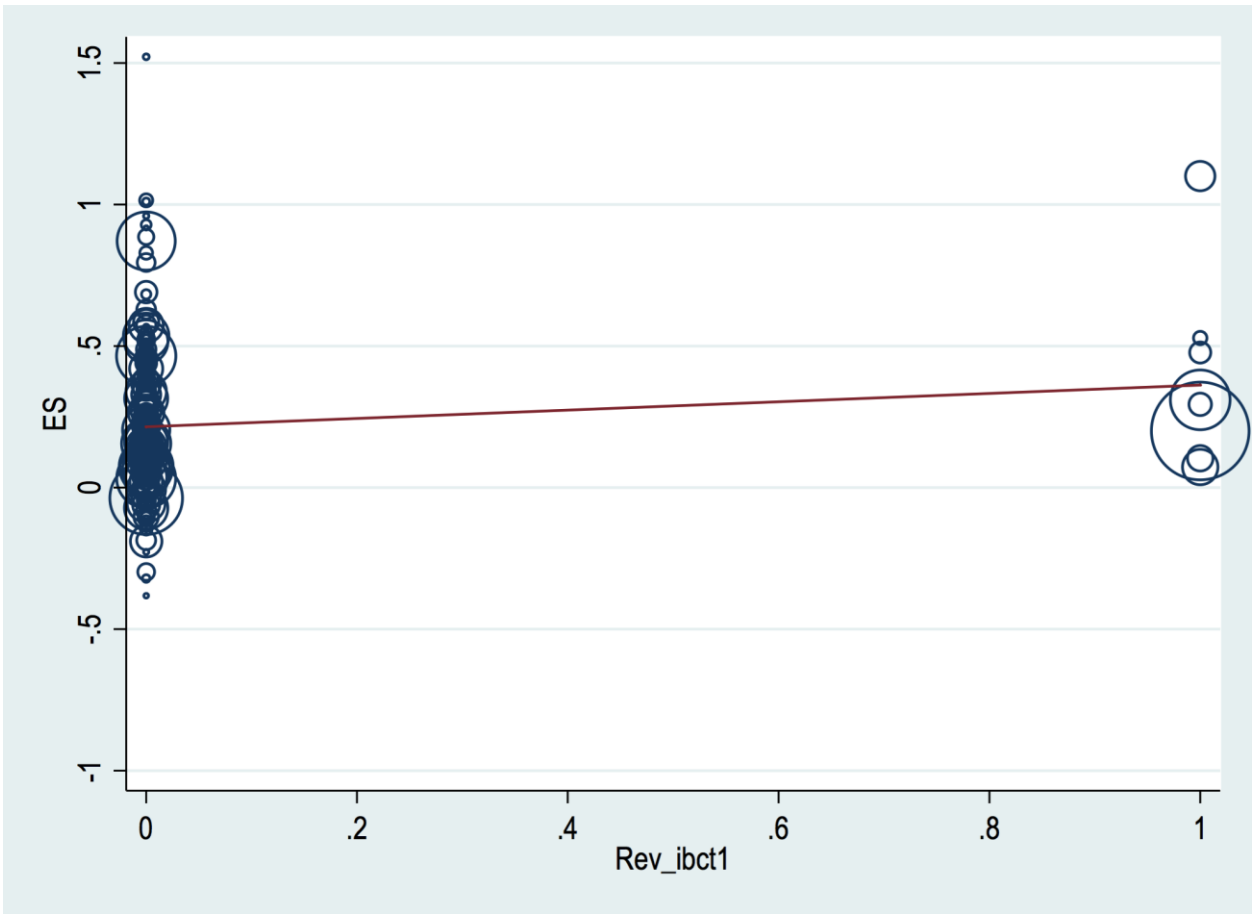
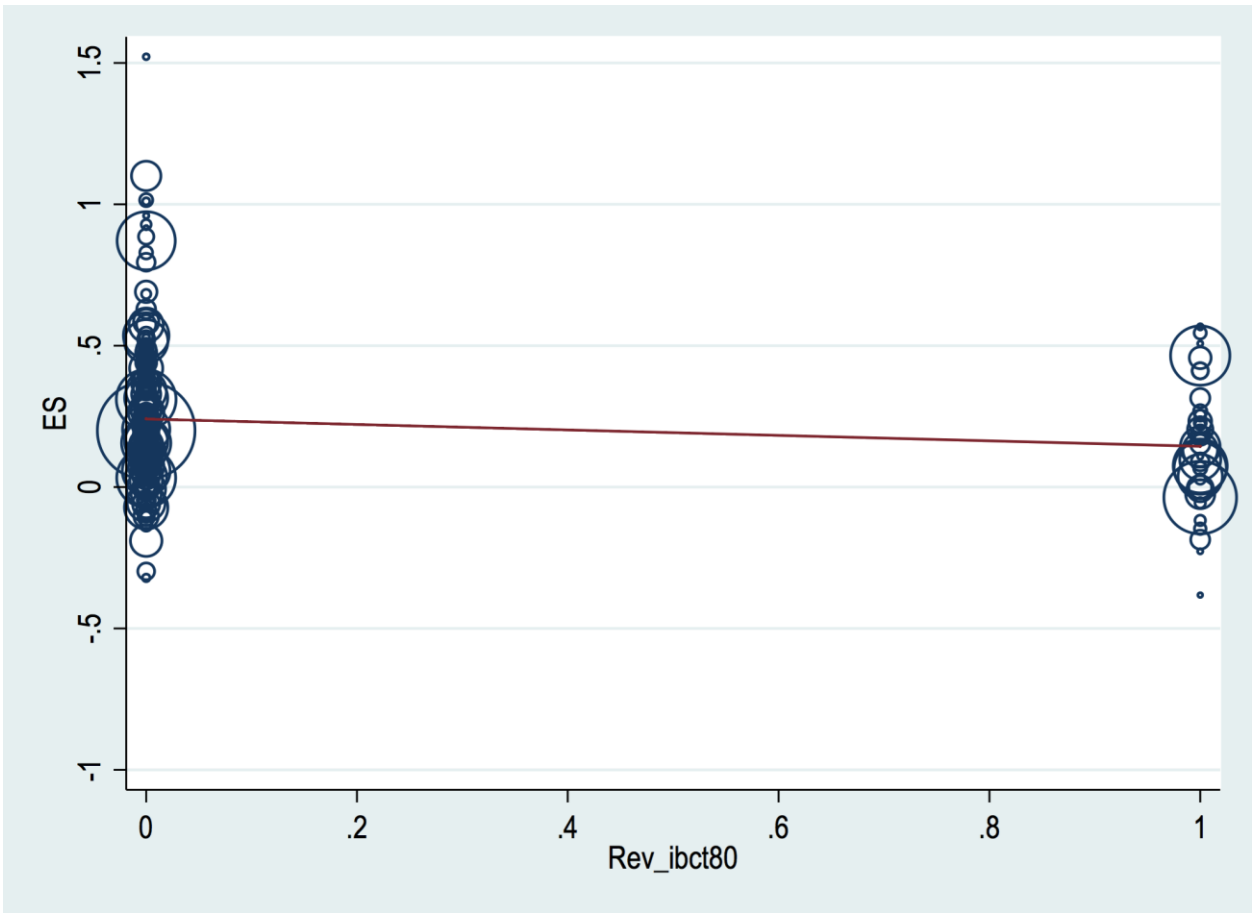
MULTIVARIATE META-ANALYSIS - CONTROLLING FOR BCT IN CONTROL GROUP USING REVISED METHOD: INDIVIDUAL BCTS AND IFS

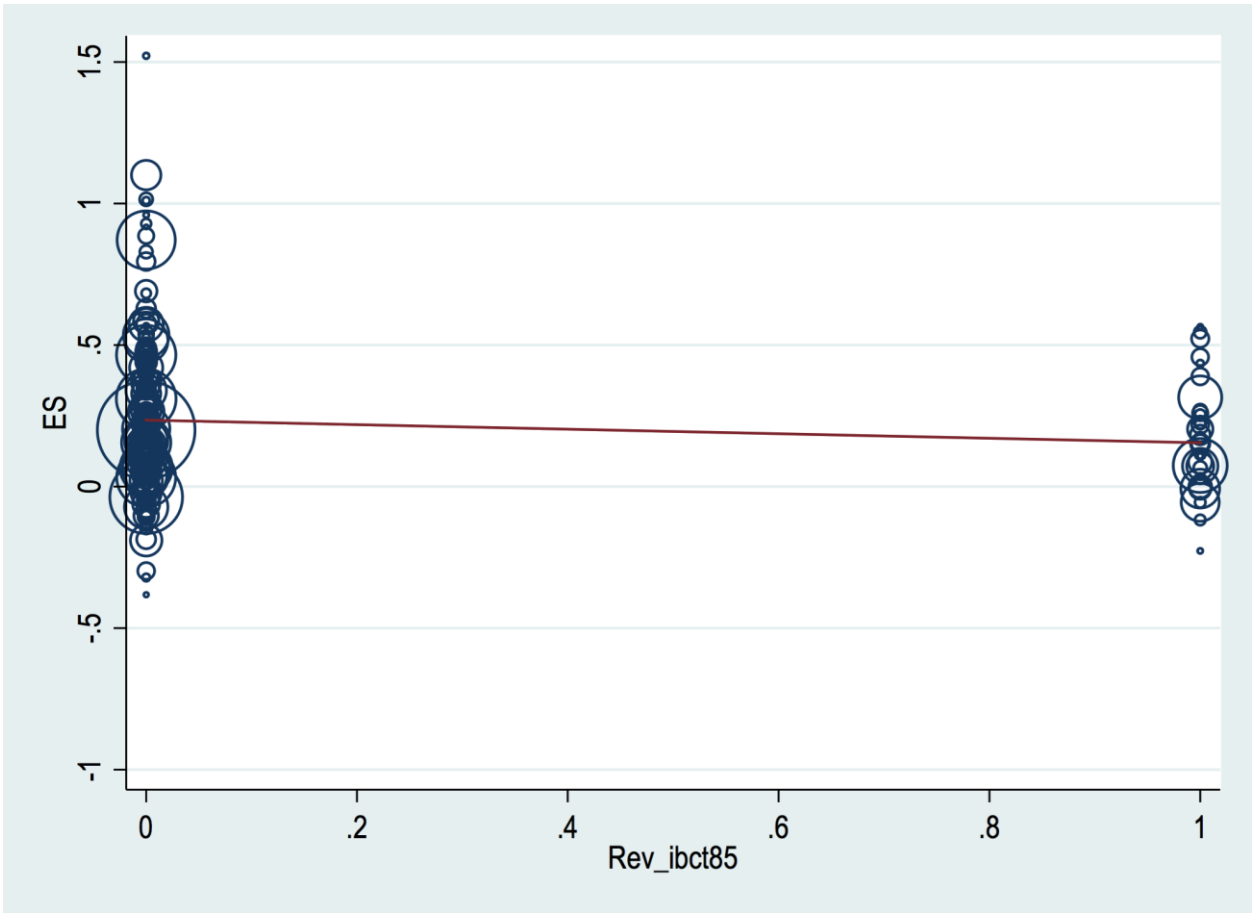
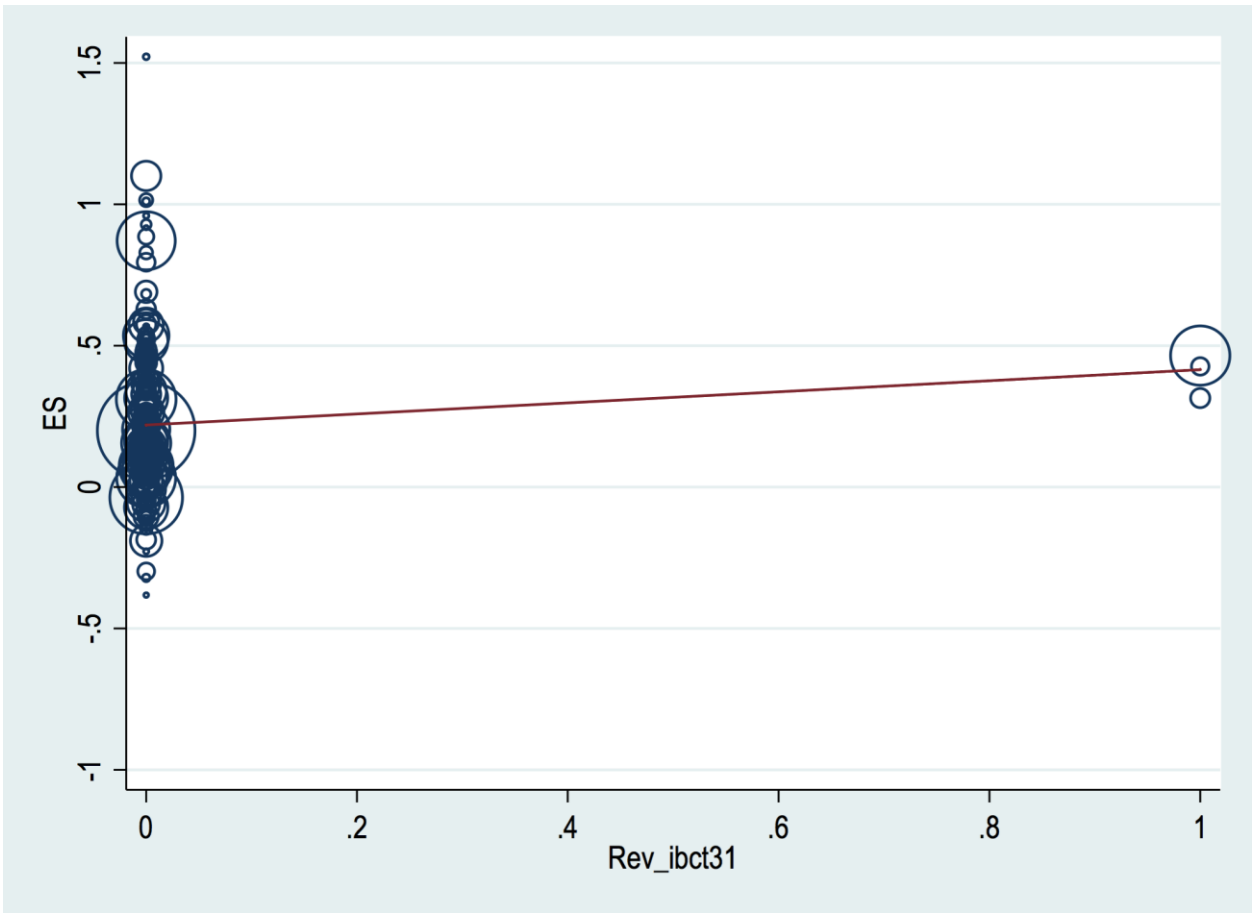
Bubble plots for covariates entered into meta-regression

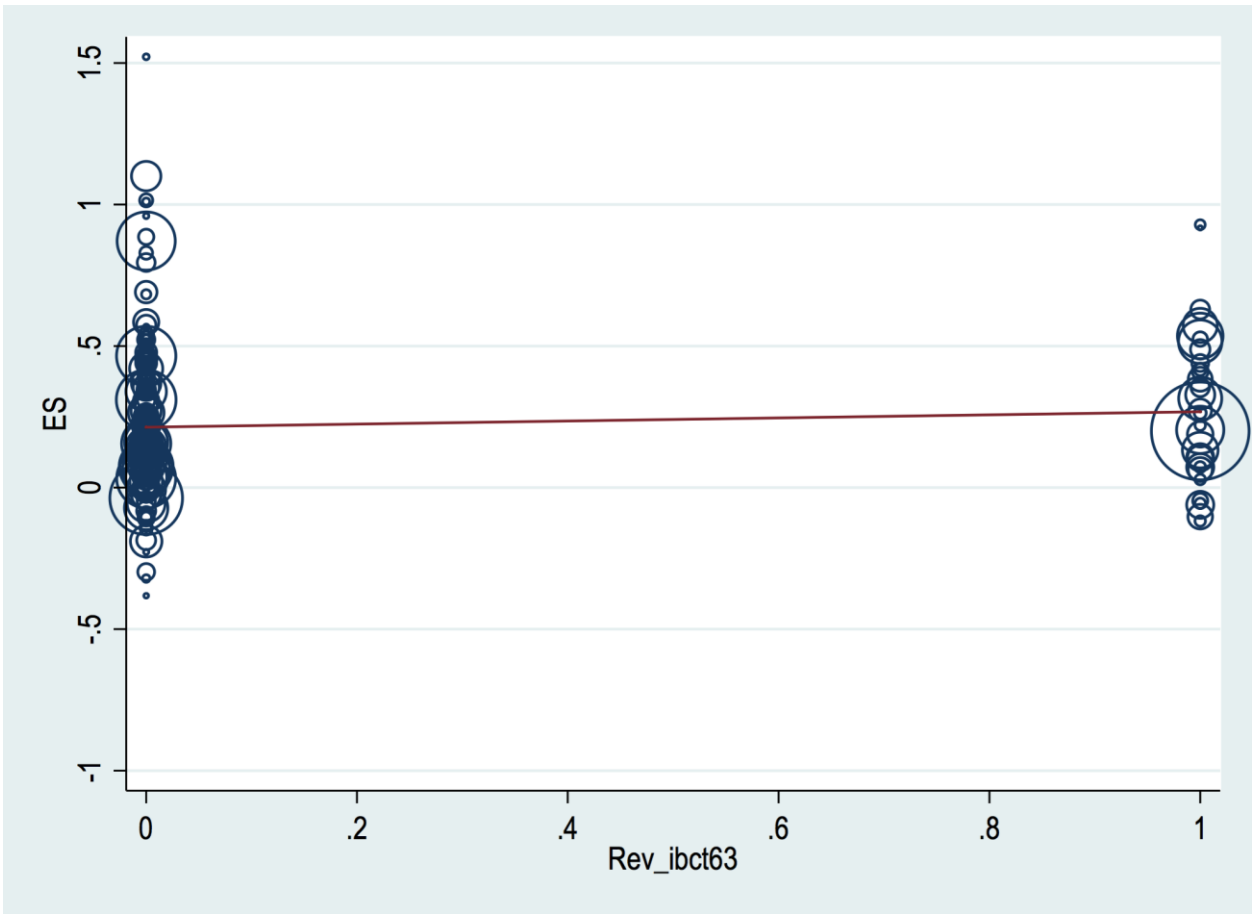
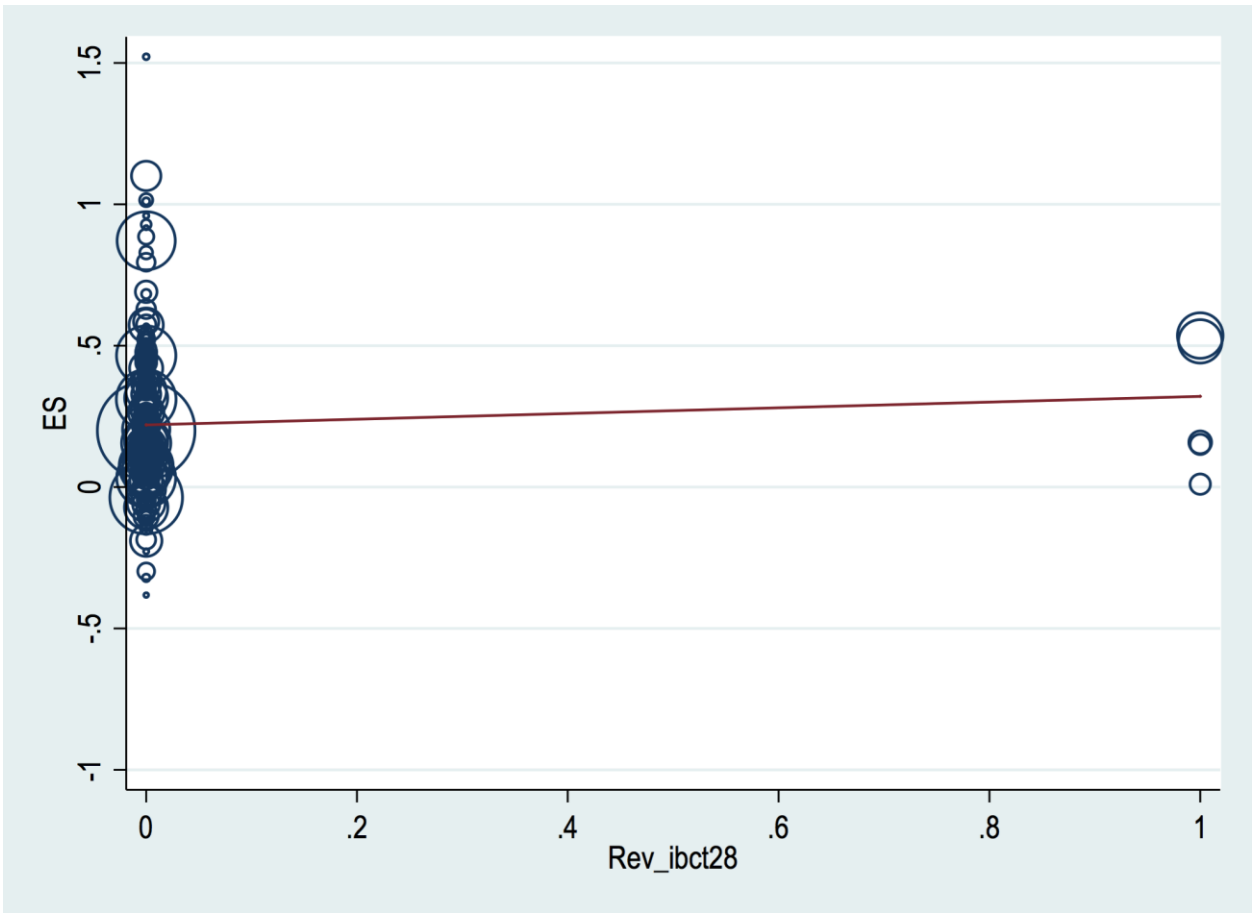


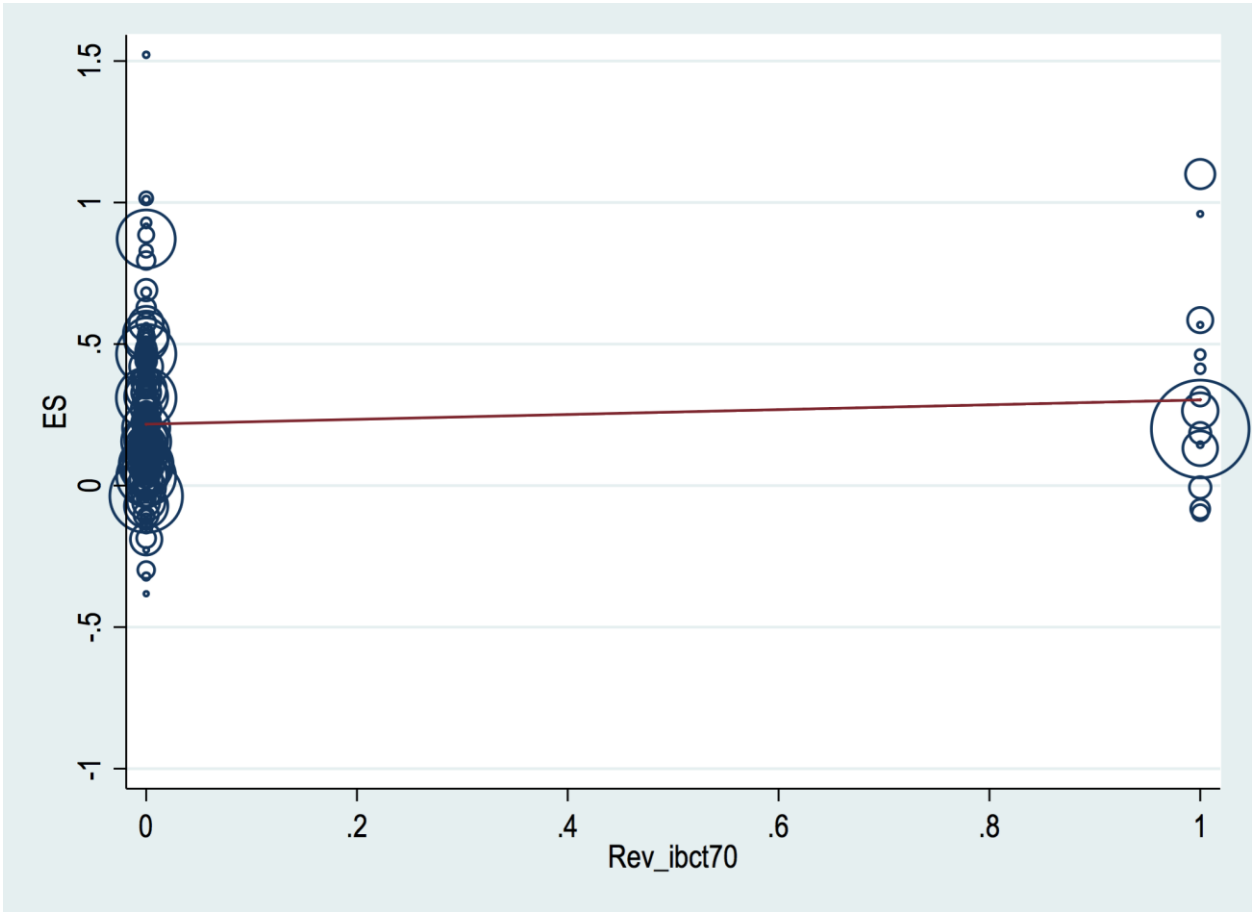


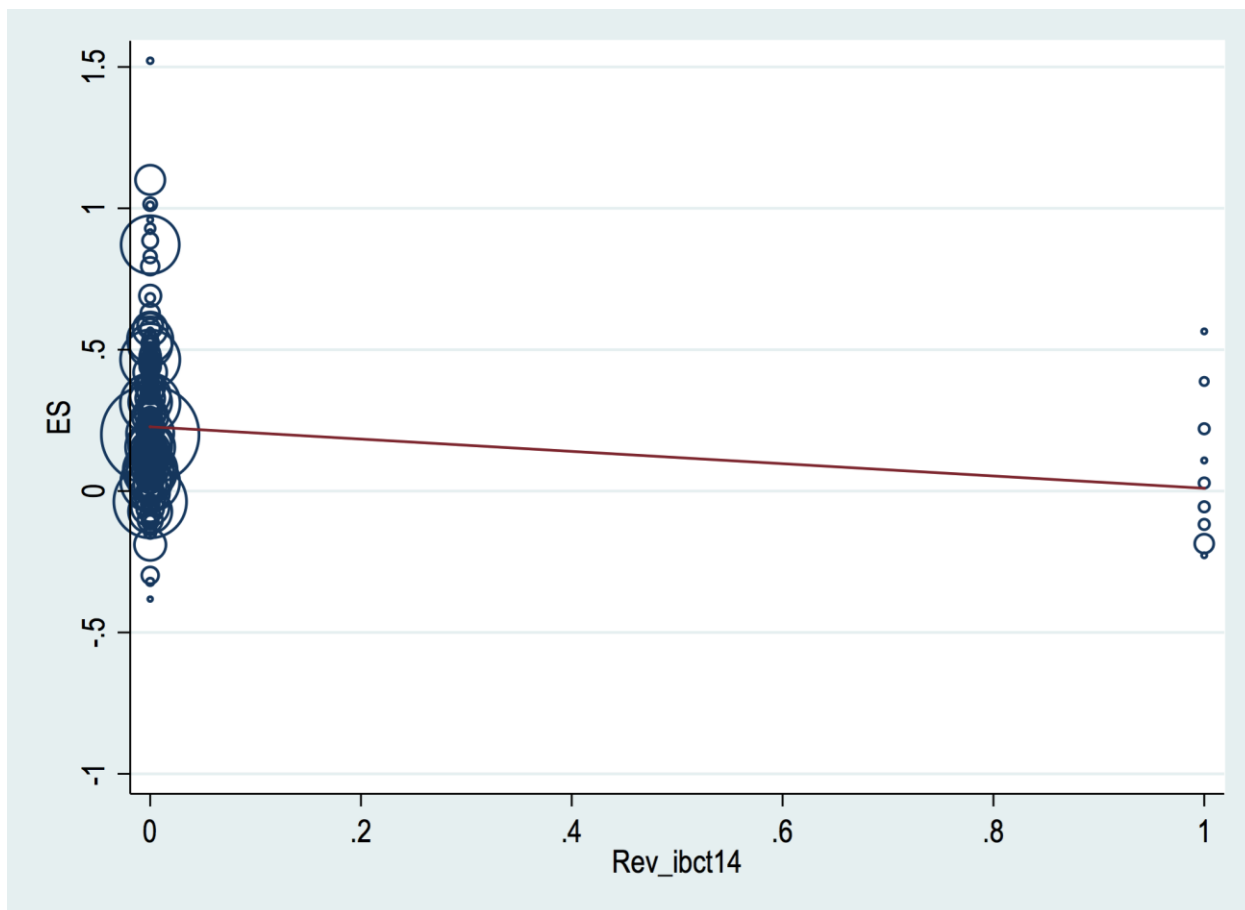












Model Overall_M1a

Rev_ibct4 (adj R-sq=6.74%)

Rev_iif7 (adj R-sq=8.13%)

Rev_ibct4 (adj R-sq=6.74%)

Rev_ibct29 (adj R-sq=5.87%)

Rev_ibct34 (adj R-sq=4.97%)

Rev_ibct65 (adj R-sq=3.77%)

Rev_ibct80 (adj R-sq=2.66%)

Rev_ibct1 (adj R-sq=2.39%)

Rev_ibct31 (adj R-sq=1.97%)

Rev_ibct85 (adj R-sq=1.46%)

Rev_ibct28 (adj R-sq=1.39%)

Rev_ibct63 (adj R-sq=1.29%)

Rev_ibct70 (adj R-sq=1.11%)

Rev_ibct14 (adj R-sq=1.04%)

Forward stepwise approach: Step 1

Model Overall_M1a

```
. metareg ES if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2           =    .03104
% residual variation due to heterogeneity       I-squared_res  =   66.02%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
_cons	.2234688	.0182	12.28	0.000	.1875758	.2593619

.

Forward stepwise approach: Step 2

Add Rev_iif7 (adj R-sq=8.13%)

```
. metareg ES Rev_iif7 itb if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance         tau2           =    .02863
% residual variation due to heterogeneity       I-squared_res  =   62.12%
Proportion of between-study variance explained  Adj R-squared  =    7.77%
Joint test for all covariates                  Model F(2,194) =    3.50
With Knapp-Hartung modification                Prob > F        =    0.0322
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_iif7	.1304394	.0497706	2.62	0.009	.0322785	.2286003
itb	-.0184455	.0396944	-0.46	0.643	-.0967336	.0598426
_cons	.208304	.0220695	9.44	0.000	.164777	.251831

.

Forward stepwise approach: Step 3

Add Rev_ibct4 (adj R-sq=6.74%)

```
. metareg ES Rev_iif7 Rev_ibct4 itb if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	197
REML estimate of between-study variance	tau2	=	.02723
% residual variation due to heterogeneity	I-squared_res	=	57.83%
Proportion of between-study variance explained	Adj R-squared	=	12.29%
Joint test for all covariates	Model F(3,193)	=	3.79
With Knapp-Hartung modification	Prob > F	=	0.0113

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_iif7	.1124512	.0498583	2.26	0.025	.0141141 .2107884
Rev_ibct4	.1014509	.0503877	2.01	0.045	.0020697 .2008321
itb	-.0130939	.0392614	-0.33	0.739	-.0905304 .0643426
_cons	.1940454	.0227971	8.51	0.000	.149082 .2390088

Forward stepwise approach: Step 4

Add Rev_ibct29 (adj R-sq=5.87%)

```
. metareg ES Rev_iif7 Rev_ibct4 Rev_ibct29 itb if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	197
REML estimate of between-study variance	tau2	=	.0243
% residual variation due to heterogeneity	I-squared_res	=	55.00%
Proportion of between-study variance explained	Adj R-squared	=	21.71%
Joint test for all covariates	Model F(4,192)	=	5.52
With Knapp-Hartung modification	Prob > F	=	0.0003

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_iif7	.1202664	.0481282	2.50	0.013	.0253386 .2151942
Rev_ibct4	.1082394	.0489606	2.21	0.028	.0116697 .2048091

Rev_ibct29	.2524516	.0819865	3.08	0.002	.0907418	.4141615
itb	-.036234	.0387881	-0.93	0.351	-.1127395	.0402715
_cons	.1854227	.0221972	8.35	0.000	.141641	.2292043

Forward stepwise approach: Step 5

Add Rev_ibct34 (adj R-sq=4.97%)

```
. metareg ES Rev_iif7 Rev_ibct4 Rev_ibct29 Rev_ibct34 itb if Filter_Overall==1, wsse(_SE)
knapphartung reml
```

Meta-regression	Number of obs	=	197
REML estimate of between-study variance	tau2	=	.02448
% residual variation due to heterogeneity	I-squared_res	=	55.17%
Proportion of between-study variance explained	Adj R-squared	=	21.14%
Joint test for all covariates	Model F(5,191)	=	4.44
With Knapp-Hartung modification	Prob > F	=	0.0008

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_iif7	.1502201	.0755374	1.99	0.048	.0012254 .2992148
Rev_ibct4	.1139754	.0503474	2.26	0.025	.0146671 .2132838
Rev_ibct29	.2506504	.082189	3.05	0.003	.0885357 .4127651
Rev_ibct34	-.0361143	.0697863	-0.52	0.605	-.1737652 .1015365
itb	-.0362457	.0388624	-0.93	0.352	-.1129004 .0404089
_cons	.187328	.0225165	8.32	0.000	.1429151 .231741

Forward stepwise approach: Step 6

Remove Rev_ibct34; Rev_ibct65 (adj R-sq=3.77%)

```
. metareg ES Rev_iif7 Rev_ibct4 Rev_ibct29 Rev_ibct65 itb if Filter_Overall==1, wsse(_SE)
knapphartung reml
```

Meta-regression	Number of obs	=	197
REML estimate of between-study variance	tau2	=	.02315

```
% residual variation due to heterogeneity      I-squared_res = 52.93%
Proportion of between-study variance explained  Adj R-squared = 25.43%
Joint test for all covariates                  Model F(5,191) = 5.16
With Knapp-Hartung modification                Prob > F      = 0.0002
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_iif7	.1075978	.0480791	2.24	0.026	.0127637	.202432
Rev_ibct4	.1226326	.0490254	2.50	0.013	.0259319	.2193333
Rev_ibct29	.2340187	.0818976	2.86	0.005	.0724788	.3955585
Rev_ibct65	.0939425	.0558933	1.68	0.094	-.016305	.20419
itb	-.0436757	.038536	-1.13	0.258	-.1196865	.0323352
_cons	.1773982	.0223375	7.94	0.000	.1333384	.221458

Forward stepwise approach: Step 7

Add Rev_ibct80 (adj R-sq=2.66%)

```
. metareg ES Rev_iif7 Rev_ibct4 Rev_ibct29 Rev_ibct65 Rev_ibct80 itb if Filter_Overall==1,
wsse(_SE) knapphartung reml
```

```
Meta-regression      Number of obs = 197
REML estimate of between-study variance    tau2      = .0224
% residual variation due to heterogeneity  I-squared_res = 51.44%
Proportion of between-study variance explained  Adj R-squared = 27.84%
Joint test for all covariates                  Model F(6,190) = 5.00
With Knapp-Hartung modification                Prob > F      = 0.0001
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_iif7	.1076703	.0475967	2.26	0.025	.0137845	.2015561
Rev_ibct4	.115816	.0487939	2.37	0.019	.0195688	.2120633
Rev_ibct29	.2307474	.0813003	2.84	0.005	.0703801	.3911146
Rev_ibct65	.0900876	.055403	1.63	0.106	-.0191963	.1993715
Rev_ibct80	-.0803965	.0427696	-1.88	0.062	-.1647607	.0039677

itb	-.0459469	.0382315	-1.20	0.231	-.1213595	.0294657
_cons	.1943445	.024002	8.10	0.000	.1469999	.2416892

Forward stepwise approach: Step 8

Add Rev_ibct1 (adj R-sq=2.39%)

```
. metareg ES Rev_iif7 Rev_ibct4 Rev_ibct29 Rev_ibct34 Rev_ibct65 Rev_ibct80 Rev_ibct1 itb if
Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	197
REML estimate of between-study variance	tau2 =	.02293
% residual variation due to heterogeneity	I-squared_res =	51.27%
Proportion of between-study variance explained	Adj R-squared =	26.14%
Joint test for all covariates	Model F(8,188) =	3.81
With Knapp-Hartung modification	Prob > F =	0.0004

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
----	-------	-----------	---	------	----------------------

Rev_iif7	.1310576	.0763163	1.72	0.088	-.0194887	.2816039
Rev_ibct4	.1226749	.0508644	2.41	0.017	.0223367	.2230132
Rev_ibct29	.2213599	.0822288	2.69	0.008	.0591503	.3835695
Rev_ibct34	-.0378789	.0707569	-0.54	0.593	-.1774585	.1017007
Rev_ibct65	.0912384	.0570888	1.60	0.112	-.0213785	.2038553
Rev_ibct80	-.0738767	.0435571	-1.70	0.092	-.1598002	.0120468
Rev_ibct1	.0566469	.0734978	0.77	0.442	-.0883395	.2016334
itb	-.0442735	.0385421	-1.15	0.252	-.120304	.031757
_cons	.1927175	.024523	7.86	0.000	.1443419	.2410931

Forward stepwise approach: Step 9

Remove Rev_ibct34; Add Rev_ibct31 (adj R-sq=1.97%)

```
. metareg ES Rev_iif7 Rev_ibct4 Rev_ibct29 Rev_ibct65 Rev_ibct80 Rev_ibct1 Rev_ibct31 itb if
Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	197
REML estimate of between-study variance	tau2	=	.02278
% residual variation due to heterogeneity	I-squared_res	=	51.37%
Proportion of between-study variance explained	Adj R-squared	=	26.61%
Joint test for all covariates	Model F(8,188)	=	3.97
With Knapp-Hartung modification	Prob > F	=	0.0002

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_iif7	.0776892	.0520161	1.49	0.137	-.024921 .1802994
Rev_ibct4	.1096061	.0492572	2.23	0.027	.0124382 .2067739
Rev_ibct29	.2207248	.0820418	2.69	0.008	.058884 .3825657
Rev_ibct65	.0895381	.0560094	1.60	0.112	-.0209496 .2000258
Rev_ibct80	-.0888888	.0445071	-2.00	0.047	-.1766863 -.0010913
Rev_ibct1	.0684879	.0731114	0.94	0.350	-.0757363 .2127121
Rev_ibct31	.1595039	.1318107	1.21	0.228	-.1005141 .4195219
itb	-.0394528	.0386321	-1.02	0.308	-.1156609 .0367554
_cons	.1929729	.0244209	7.90	0.000	.1447987 .2411471

Forward stepwise approach: Step 10

Remove Rev_ibct1; Add Rev_ibct85 (adj R-sq=1.46%)

```
. metareg ES Rev_iif7 Rev_ibct4 Rev_ibct29 Rev_ibct65 Rev_ibct80 Rev_ibct31 Rev_ibct85 itb if
Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	197
REML estimate of between-study variance	tau2	=	.02257
% residual variation due to heterogeneity	I-squared_res	=	51.65%
Proportion of between-study variance explained	Adj R-squared	=	27.29%
Joint test for all covariates	Model F(8,188)	=	3.91
With Knapp-Hartung modification	Prob > F	=	0.0003

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
----	-------	-----------	---	------	----------------------

Rev_iif7	.088448	.0507799	1.74	0.083	-.0117235	.1886195
Rev_ibct4	.1076109	.0494365	2.18	0.031	.0100893	.2051325
Rev_ibct29	.2252123	.0818403	2.75	0.007	.0637691	.3866556
Rev_ibct65	.0922879	.0558339	1.65	0.100	-.0178535	.2024294
Rev_ibct80	-.0888046	.045161	-1.97	0.051	-.177892	.0002829
Rev_ibct31	.1439748	.1315	1.09	0.275	-.1154303	.4033799
Rev_ibct85	-.0208551	.0492377	-0.42	0.672	-.1179845	.0762744
itb	-.0405124	.0386199	-1.05	0.296	-.1166965	.0356717
_cons	.1987584	.0248561	8.00	0.000	.1497257	.2477911

Forward stepwise approach: Step 11

Add Rev_ibct28 (adj R-sq=1.39%)

```
. metareg ES Rev_iif7 Rev_ibct4 Rev_ibct29 Rev_ibct65 Rev_ibct80 Rev_ibct31 Rev_ibct85
Rev_ibct28 itb if Filter_Overall=1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	197
REML estimate of between-study variance	tau2	=	.02272
% residual variation due to heterogeneity	I-squared_res	=	51.54%
Proportion of between-study variance explained	Adj R-squared	=	26.81%
Joint test for all covariates	Model F(9,187)	=	3.48
With Knapp-Hartung modification	Prob > F	=	0.0005

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_iif7	.0834184	.052038	1.60	0.111	-.0192387 .1860754
Rev_ibct4	.1097356	.0497703	2.20	0.029	.0115523 .207919
Rev_ibct29	.227297	.0821158	2.77	0.006	.0653046 .3892893
Rev_ibct65	.0858312	.0576625	1.49	0.138	-.0279214 .1995838
Rev_ibct80	-.0874405	.0453448	-1.93	0.055	-.1768935 .0020125
Rev_ibct31	.1486429	.1321658	1.12	0.262	-.1120846 .4093705
Rev_ibct85	-.019576	.0494015	-0.40	0.692	-.1170319 .07788
Rev_ibct28	.0436819	.0966174	0.45	0.652	-.1469183 .234282
itb	-.0374203	.039256	-0.95	0.342	-.1148619 .0400213

_cons	.196922	.0252641	7.79	0.000	.1470828	.2467612
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Forward stepwise approach: Step 12

Remove Rev_ibct85; Add Rev_ibct63 (adj R-sq=1.29%)

```
. metareg ES Rev_iif7 Rev_ibct4 Rev_ibct29 Rev_ibct65 Rev_ibct80 Rev_ibct31 Rev_ibct28
Rev_ibct63 itb if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	197
REML estimate of between-study variance	tau2 =	.02209
% residual variation due to heterogeneity	I-squared_res =	51.10%
Proportion of between-study variance explained	Adj R-squared =	28.84%
Joint test for all covariates	Model F(9,187) =	3.73
With Knapp-Hartung modification	Prob > F =	0.0002

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_iif7	.0738402	.0520303	1.42	0.158	-.0288017 .176482
Rev_ibct4	.124484	.0499561	2.49	0.014	.0259341 .2230339
Rev_ibct29	.2377525	.0813388	2.92	0.004	.0772929 .398212
Rev_ibct65	.08558	.057113	1.50	0.136	-.0270886 .1982485
Rev_ibct80	-.0832862	.0444915	-1.87	0.063	-.1710559 .0044835
Rev_ibct31	.1622233	.130623	1.24	0.216	-.0954606 .4199073
Rev_ibct28	.0332605	.0962039	0.35	0.730	-.1565239 .2230448
Rev_ibct63	.0582784	.0448245	1.30	0.195	-.0301484 .1467052
itb	-.0402011	.0388602	-1.03	0.302	-.1168619 .0364596
_cons	.1819925	.0259714	7.01	0.000	.130758 .233227

Forward stepwise approach: Step 13

Add Rev_ibct70 (adj R-sq=1.11%)

```
. metareg ES Rev_iif7 Rev_ibct4 Rev_ibct29 Rev_ibct65 Rev_ibct80 Rev_ibct31 Rev_ibct28
Rev_ibct63 Rev_ibct70 itb if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	197
REML estimate of between-study variance	tau2 =	.02238

```
% residual variation due to heterogeneity          I-squared_res = 51.16%
Proportion of between-study variance explained      Adj R-squared = 27.91%
Joint test for all covariates                      Model F(10,186)= 3.34
With Knapp-Hartung modification                   Prob > F = 0.0005
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
Rev_iif7	.0734661	.0522377	1.41	0.161	-.0295884	.1765207
Rev_ibct4	.1216761	.0506496	2.40	0.017	.0217546	.2215975
Rev_ibct29	.2349421	.0819144	2.87	0.005	.0733413	.3965429
Rev_ibct65	.08241	.0579771	1.42	0.157	-.0319673	.1967873
Rev_ibct80	-.0832643	.0446465	-1.86	0.064	-.171343	.0048143
Rev_ibct31	.1597945	.1313546	1.22	0.225	-.0993418	.4189308
Rev_ibct28	.0364184	.097069	0.38	0.708	-.1550794	.2279161
Rev_ibct63	.0579341	.044985	1.29	0.199	-.0308123	.1466804
Rev_ibct70	.022166	.0656899	0.34	0.736	-.1074271	.1517591
itb	-.0376992	.0396083	-0.95	0.342	-.1158385	.04044
_cons	.1806938	.0264416	6.83	0.000	.1285298	.2328579

.

Forward stepwise approach: Step 14

Remove Rev_ibct70; Add Rev_ibct14 (adj R-sq=1.04%)

```
. metareg ES Rev_iif7 Rev_ibct4 Rev_ibct29 Rev_ibct65 Rev_ibct80 Rev_ibct31 Rev_ibct28
Rev_ibct63 Rev_ibct14 itb if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression          Number of obs = 197
REML estimate of between-study variance      tau2 = .02211
% residual variation due to heterogeneity     I-squared_res = 51.23%
Proportion of between-study variance explained Adj R-squared = 28.79%
Joint test for all covariates                Model F(10,186)= 3.48
With Knapp-Hartung modification              Prob > F = 0.0003
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
----	-------	-----------	---	------	----------------------	--

Rev_iif7	.0732284	.0520426	1.41	0.161	-.0294412	.1758979
Rev_ibct4	.1262331	.0499877	2.53	0.012	.0276174	.2248488
Rev_ibct29	.2369467	.0813531	2.91	0.004	.0764532	.3974402
Rev_ibct65	.0826316	.0571817	1.45	0.150	-.0301765	.1954397
Rev_ibct80	-.0691099	.0462286	-1.49	0.137	-.1603096	.0220899
Rev_ibct31	.1521739	.130949	1.16	0.247	-.1061623	.41051
Rev_ibct28	.0322014	.0962252	0.33	0.738	-.1576316	.2220344
Rev_ibct63	.0662024	.0453759	1.46	0.146	-.0233152	.1557201
Rev_ibct14	-.1524114	.134678	-1.13	0.259	-.4181042	.1132813
itb	-.0395409	.0388704	-1.02	0.310	-.1162244	.0371426
_cons	.1807054	.0260009	6.95	0.000	.129411	.2319999

Forward stepwise approach: Final Step

Remove Rev_ibct28

```
. metareg ES Rev_iif7 Rev_ibct4 Rev_ibct29 Rev_ibct65 Rev_ibct80 Rev_ibct31 Rev_ibct63
Rev_ibct14 itb if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	197
REML estimate of between-study variance	tau2	=	.02189
% residual variation due to heterogeneity	I-squared_res	=	51.24%
Proportion of between-study variance explained	Adj R-squared	=	29.48%
Joint test for all covariates	Model F(9,187)	=	3.89
With Knapp-Hartung modification	Prob > F	=	0.0002

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Rev_iif7	.0766618	.0509342	1.51	0.134	-.0238177 .1771412
Rev_ibct4	.1252424	.0497375	2.52	0.013	.0271237 .2233611
Rev_ibct29	.2358722	.0810782	2.91	0.004	.0759268 .3958177
Rev_ibct65	.0874962	.0553108	1.58	0.115	-.0216172 .1966096
Rev_ibct80	-.0700526	.0460238	-1.52	0.130	-.1608451 .02074
Rev_ibct31	.1491931	.1302664	1.15	0.254	-.1077876 .4061737
Rev_ibct63	.0678563	.0450051	1.51	0.133	-.0209267 .1566393
Rev_ibct14	-.1527893	.1345034	-1.14	0.257	-.4181284 .1125498

```

      itb |   -.0419549   .0381624   -1.10   0.273   -.1172391   .0333293
    _cons |   .1815131   .0257756    7.04   0.000    .1306648   .2323614
-----+-----

```

Model Overall_M1a_s (Sensitivity analysis: Long-term data only)

```
. tabulate FU_Cat if Filter_Overall==1
```

```

FU Category |      Freq.      Percent      Cum.
-----+-----
      Short |         126         63.96         63.96
      Long  |          71         36.04        100.00
-----+-----
      Total |         197        100.00

```

Forward stepwise approach: Step 1

Empty model

```
. metareg ES if Filter_Overall==1 & FU_Cat==1, wsse(_SE) knapphartung reml
```

```

Meta-regression                                Number of obs =          71
REML estimate of between-study variance          tau2              =         .0325
% residual variation due to heterogeneity        I-squared_res      =       76.43%
With Knapp-Hartung modification

```

```

      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
    _cons |   .1780105   .0292655     6.08   0.000    .1196423    .2363788
-----+-----

```

Forward stepwise approach: Final Step

```
. metareg ES Rev_iif7 Rev_ibct4 Rev_ibct29 Rev_ibct65 Rev_ibct80 Rev_ibct31 Rev_ibct63
Rev_ibct14 itb if Filter_
```

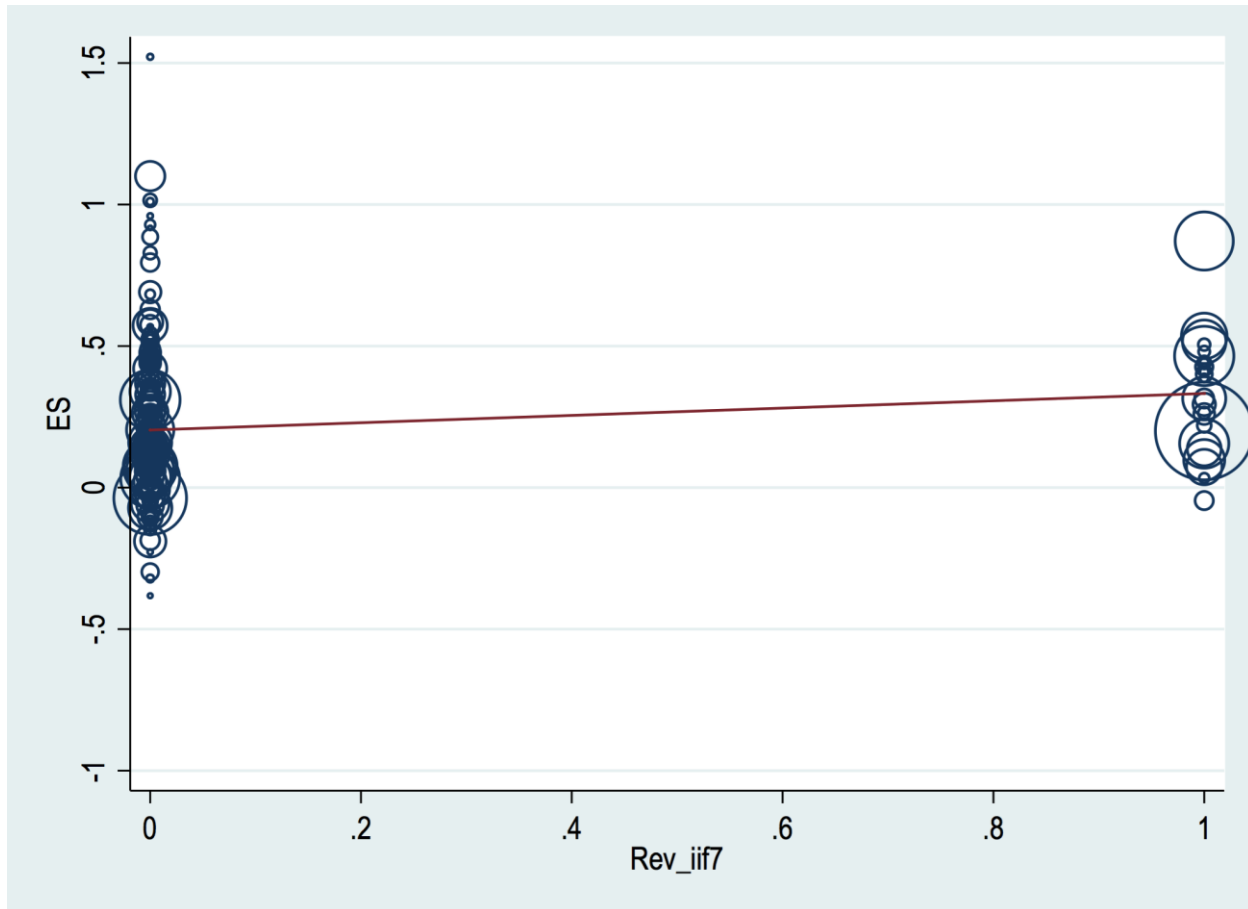
```
> Overall==1 & FU_Cat==1, wsse(_SE) knapphartung reml
```

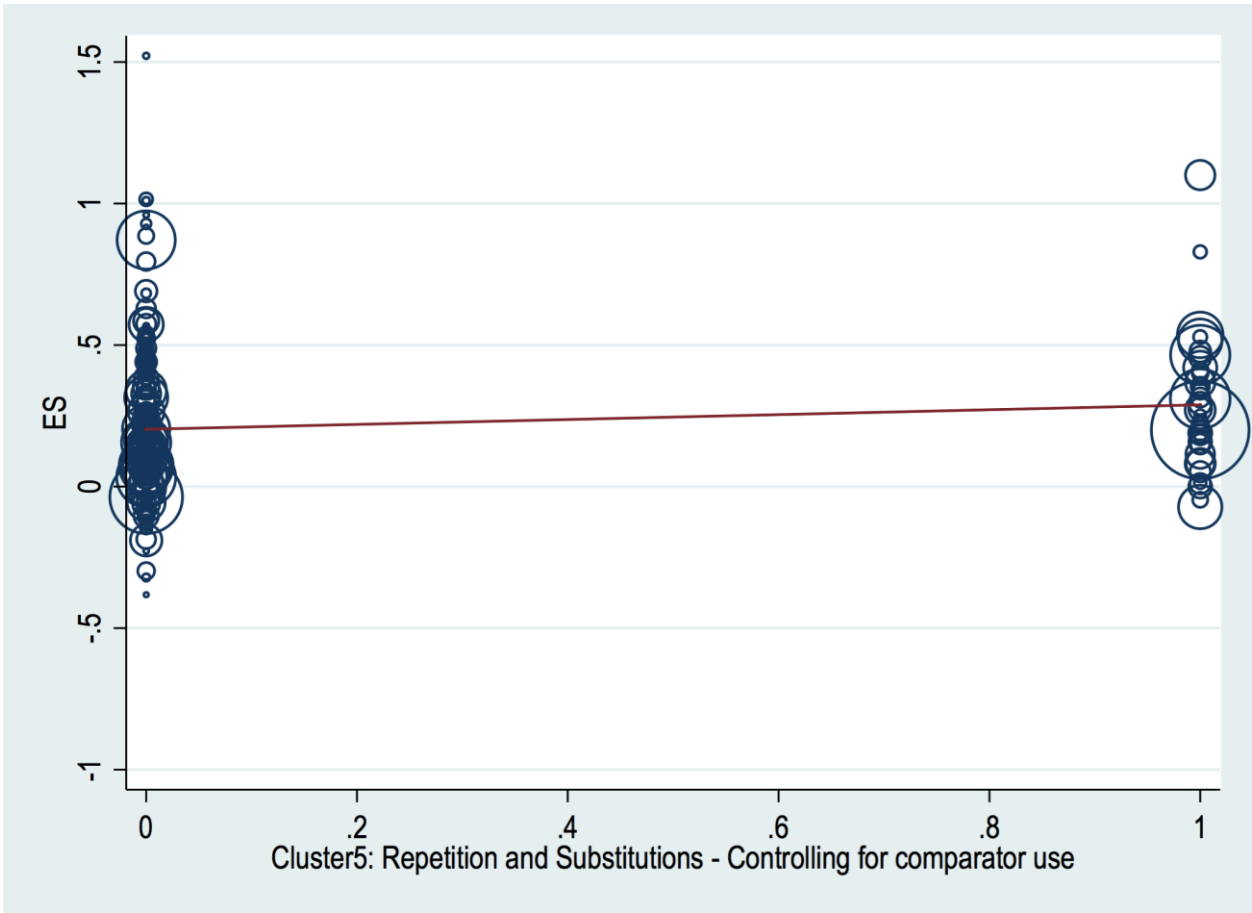
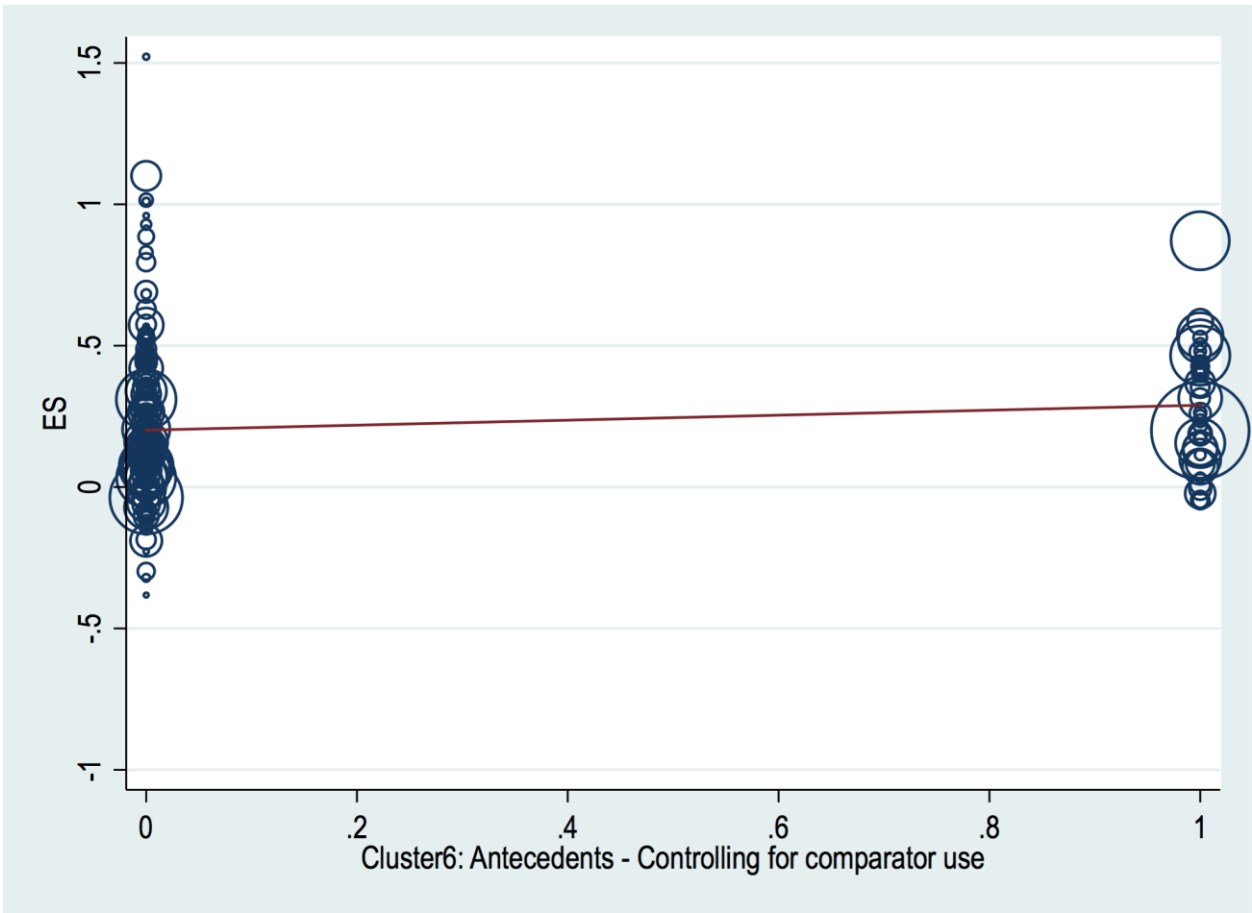
Meta-regression	Number of obs	=	71
REML estimate of between-study variance	tau2	=	.01733
% residual variation due to heterogeneity	I-squared_res	=	49.99%
Proportion of between-study variance explained	Adj R-squared	=	46.69%
Joint test for all covariates	Model F(9,61)	=	3.63
With Knapp-Hartung modification	Prob > F	=	0.0011

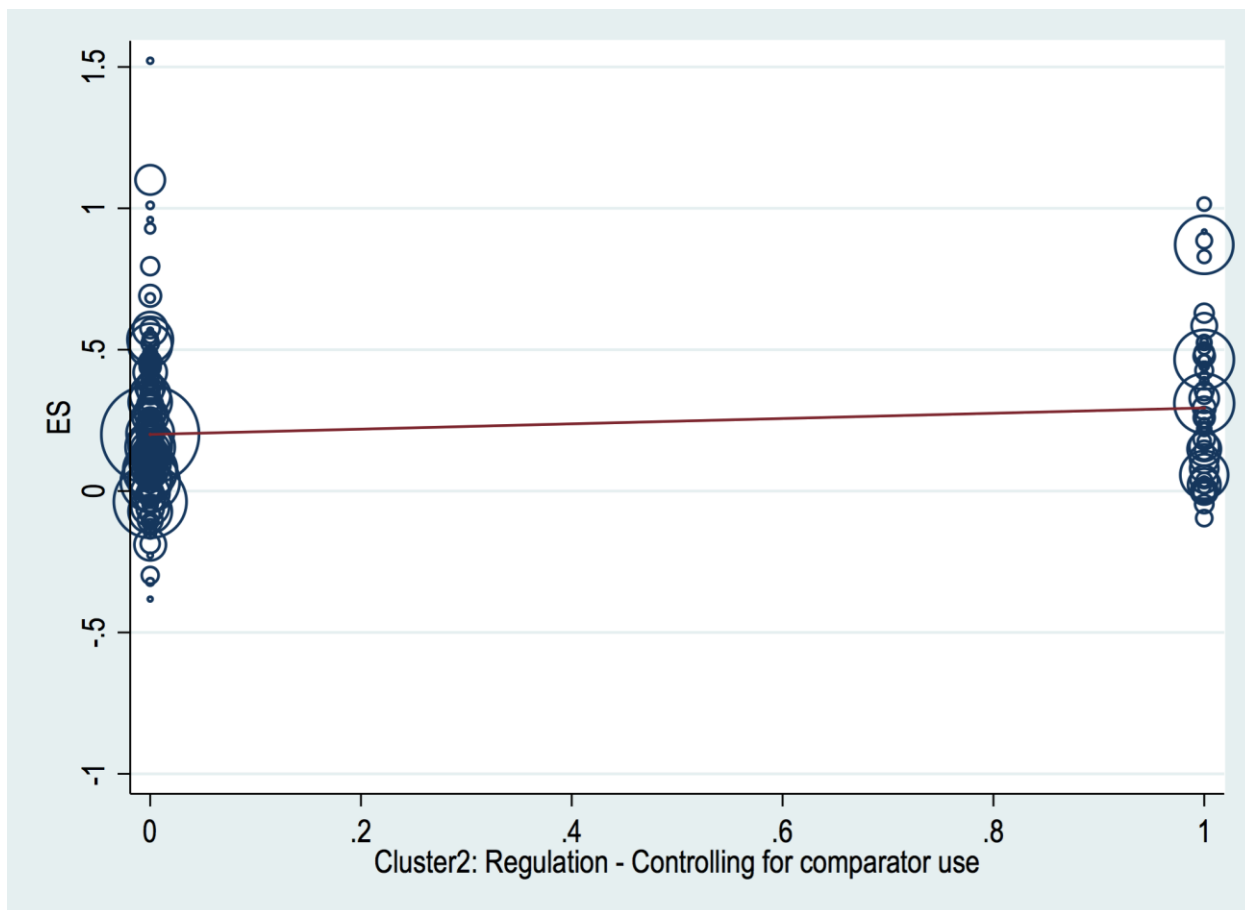
-----+-----						
ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_iif7	.1582346	.0748966	2.11	0.039	.0084695	.3079996
Rev_ibct4	.2042239	.0772326	2.64	0.010	.0497877	.35866
Rev_ibct29	.2198841	.1520152	1.45	0.153	-.0840891	.5238573
Rev_ibct65	.0641198	.1014819	0.63	0.530	-.1388058	.2670454
Rev_ibct80	-.0093258	.0589348	-0.16	0.875	-.1271733	.1085216
Rev_ibct31	.1796168	.2483319	0.72	0.472	-.3169535	.6761871
Rev_ibct63	.1672553	.0785951	2.13	0.037	.0100947	.3244158
Rev_ibct14	-.2049034	.1799359	-1.14	0.259	-.5647076	.1549007
itb	-.0615147	.0759866	-0.81	0.421	-.2134594	.0904299
_cons	.0888813	.0390353	2.28	0.026	.0108254	.1669373

MULTIVARIATE META-ANALYSIS - CONTROLLING FOR BCT IN CONTROL GROUP USING REVISED METHOD: CLUSTERS AND IFS

Bubble plots for covariates entered into meta-regression







Model Overall_M1b (overall clusters and IFs)

```
.
Rev_iif7 (adj R-sq=8.13%)
Rev_Cluster6_Ant (adj R-sq=5.71%)
Rev_Cluster5_RS (adj R-sq=5.58%)
Rev_Cluster2_Reg (adj R-sq=4.01%)
```

Forward stepwise approach: Step 1

Empty model

```
. metareg ES if Filter_Overall==1, wsse(_SE) knapphartung reml
```

```
Meta-regression                                Number of obs =      197
REML estimate of between-study variance          tau2              =   .03104
% residual variation due to heterogeneity         I-squared_res     =  66.02%
With Knapp-Hartung modification
```

```
-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
```

```
_cons | .2234688 .0182 12.28 0.000 .1875758 .2593619
```

Forward stepwise approach: Step 2

Add Rev_iif7 (adj R-sq=8.13%)

```
. metareg ES Rev_iif7 itb if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	197
REML estimate of between-study variance	tau2 =	.02863
% residual variation due to heterogeneity	I-squared_res =	62.12%
Proportion of between-study variance explained	Adj R-squared =	7.77%
Joint test for all covariates	Model F(2,194) =	3.50
With Knapp-Hartung modification	Prob > F =	0.0322

```
ES | Coef. Std. Err. t P>|t| [95% Conf. Interval]
```

```
Rev_iif7 | .1304394 .0497706 2.62 0.009 .0322785 .2286003
itb | -.0184455 .0396944 -0.46 0.643 -.0967336 .0598426
_cons | .208304 .0220695 9.44 0.000 .164777 .251831
```

Forward stepwise approach: Step 3

Add Rev_Cluster6_Ant (adj R-sq=5.71%)

```
. metareg ES Rev_iif7 Rev_Cluster6_Ant itb if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs =	197
REML estimate of between-study variance	tau2 =	.02875
% residual variation due to heterogeneity	I-squared_res =	62.15%
Proportion of between-study variance explained	Adj R-squared =	7.40%
Joint test for all covariates	Model F(3,193) =	2.41
With Knapp-Hartung modification	Prob > F =	0.0684

```
ES | Coef. Std. Err. t P>|t| [95% Conf. Interval]
```

```

-----+-----
      Rev_iif7 |   .1057242   .0695784    1.52   0.130   -.0315074   .2429558
Rev_Cluster6_Ant |   .0294438   .0580024    0.51   0.612   -.0849561   .1438437
      itb |   -.0202597   .039904   -0.51   0.612   -.0989636   .0584442
      _cons |   .2053409   .022874    8.98   0.000   .1602258   .2504559
-----+-----

```

.

Forward stepwise approach: Step 4

Remove Rev_Cluster6_Ant; add Rev_Cluster5_RS (adj R-sq=5.58%)

```
. metareg ES Rev_iif7 Rev_Cluster5_RS itb if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	197
REML estimate of between-study variance	tau2	=	.02737
% residual variation due to heterogeneity	I-squared_res	=	61.66%
Proportion of between-study variance explained	Adj R-squared	=	11.84%
Joint test for all covariates	Model F(3,193)	=	3.55
With Knapp-Hartung modification	Prob > F	=	0.0154

```

-----+-----
      ES |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
      Rev_iif7 |   .1181992   .0495617    2.38   0.018   .0204472   .2159512
Rev_Cluster5_RS |   .076939   .041889    1.84   0.068   -.0056799   .1595579
      itb |   -.0267893   .0394507   -0.68   0.498   -.1045991   .0510205
      _cons |   .1936756   .0231082    8.38   0.000   .1480986   .2392526
-----+-----

```

.

Forward stepwise approach: Final Step

Add Rev_Cluster2_Reg (adj R-sq=4.01%)

```
. metareg ES Rev_iif7 Rev_Cluster5_RS Rev_Cluster2_Reg itb if Filter_Overall==1, wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	197
REML estimate of between-study variance	tau2	=	.02667

```
% residual variation due to heterogeneity          I-squared_res = 58.94%
Proportion of between-study variance explained      Adj R-squared = 14.08%
Joint test for all covariates                      Model F(4,192) = 3.55
With Knapp-Hartung modification                    Prob > F = 0.0080
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_iif7	.107743	.0495184	2.18	0.031	.010073	.2054129
Rev_Cluster5_RS	.0710411	.0417213	1.70	0.090	-.0112498	.153332
Rev_Cluster2_Reg	.0748697	.041253	1.81	0.071	-.0064976	.156237
itb	-.0220594	.0392758	-0.56	0.575	-.0995269	.055408
_cons	.176984	.0246454	7.18	0.000	.1283734	.2255946

.

Model Overall_M1b_s (Sensitivity analysis: Long-term data only)

```
. tabulate FU_Cat if Filter_Overall==1
```

```
-----+-----
```

FU Category	Freq.	Percent	Cum.
Short	126	63.96	63.96
Long	71	36.04	100.00

```
-----+-----
```

Total	197	100.00	
-------	-----	--------	--

.

Forward stepwise approach: Step 1

Empty model

```
. metareg ES if Filter_Overall==1 & FU_Cat==1, wsse(_SE) knapphartung reml
```

```
Meta-regression          Number of obs = 71
REML estimate of between-study variance      tau2 = .0325
% residual variation due to heterogeneity     I-squared_res = 76.43%
With Knapp-Hartung modification
```

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
_cons	.1780105	.0292655	6.08	0.000	.1196423	.2363788

Forward stepwise approach: Final Step

```
. metareg ES Rev_iif7 Rev_Cluster5_RS Rev_Cluster2_Reg itb if Filter_Overall==1 & FU_Cat==1,
wsse(_SE) knapphartung reml
```

Meta-regression	Number of obs	=	71
REML estimate of between-study variance	tau2	=	.021
% residual variation due to heterogeneity	I-squared_res	=	58.50%
Proportion of between-study variance explained	Adj R-squared	=	35.39%
Joint test for all covariates	Model F(4,66)	=	5.02
With Knapp-Hartung modification	Prob > F	=	0.0014

ES	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
Rev_iif7	.2236121	.0685047	3.26	0.002	.086838	.3603861
Rev_Cluster5_RS	.0704008	.0637872	1.10	0.274	-.0569546	.1977561
Rev_Cluster2_Reg	.111536	.0560368	1.99	0.051	-.0003452	.2234171
itb	-.0439837	.0680449	-0.65	0.520	-.1798398	.0918723
_cons	.0939331	.036772	2.55	0.013	.0205155	.1673506

.
..