Output of Random Effects model for Sunk Costs

```
Random-Effects Model (k = 36; tau^2 estimator: REML)

tau^2 (estimated amount of total heterogeneity): 0.0025 (SE = 0.0053)
tau (square root of estimated tau^2 value):       0.0499
I^2 (total heterogeneity / total variability):   9.18%
H^2 (total variability / sampling variability):  1.10


Test for Heterogeneity:
Q(df = 35) = 35.5500, p-val = 0.4423


Model Results:

estimate      se     zval     pval   ci.lb    ci.ub
  0.2928  0.0284  10.3034  <.0001  0.2371   0.3485   ***


---
Signif. codes:  0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ....... 0.1 ... ... 1
```
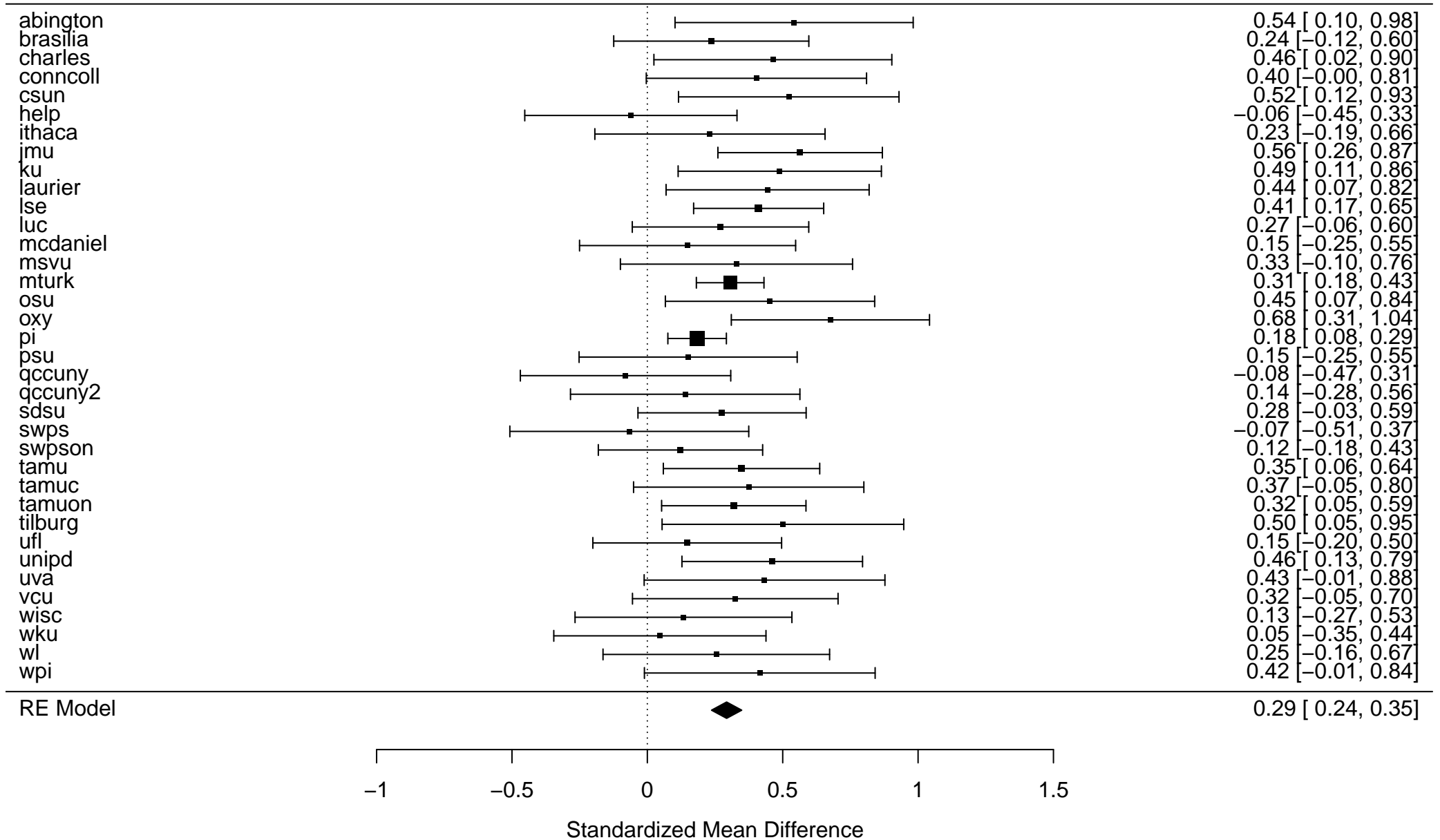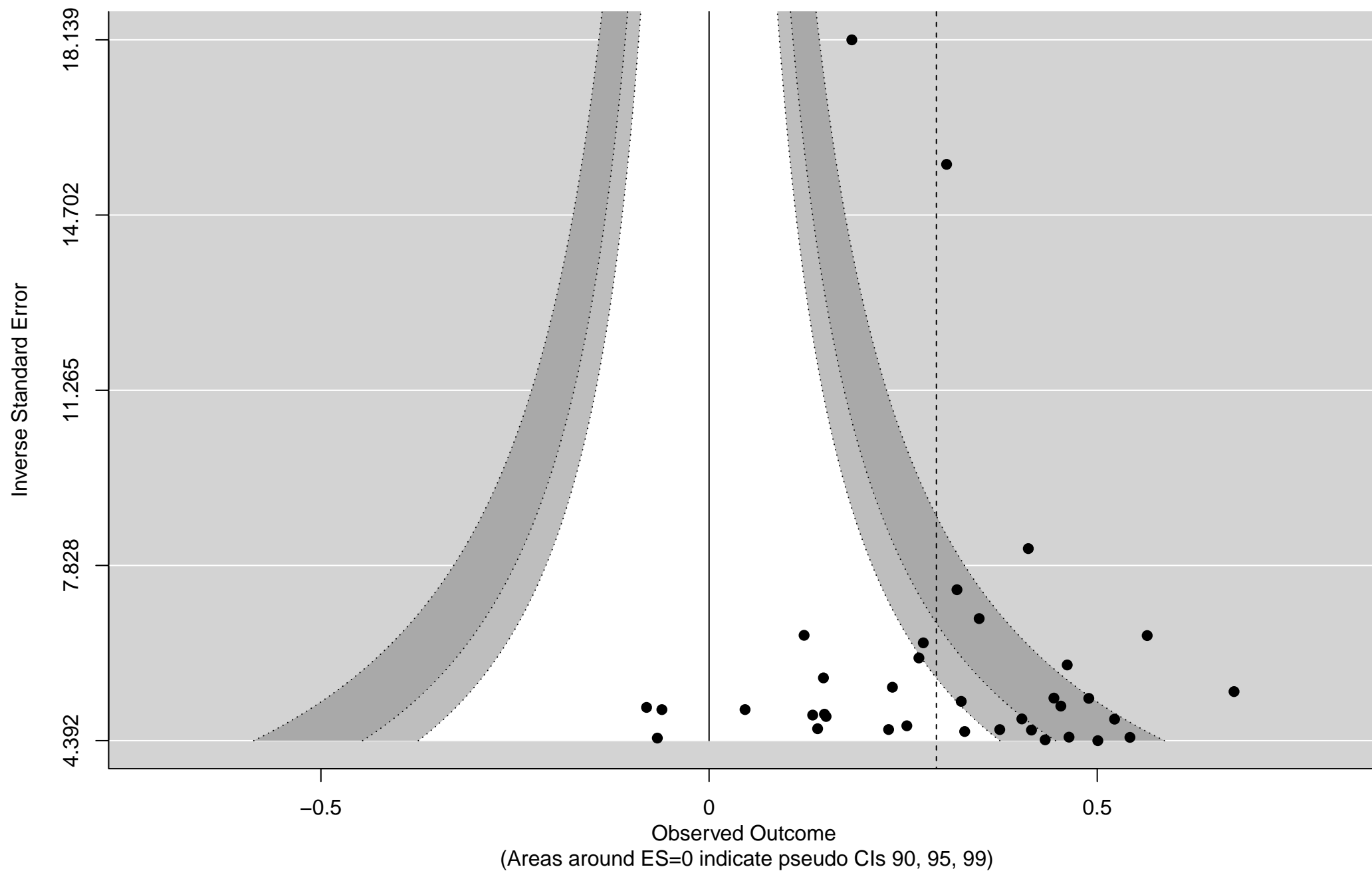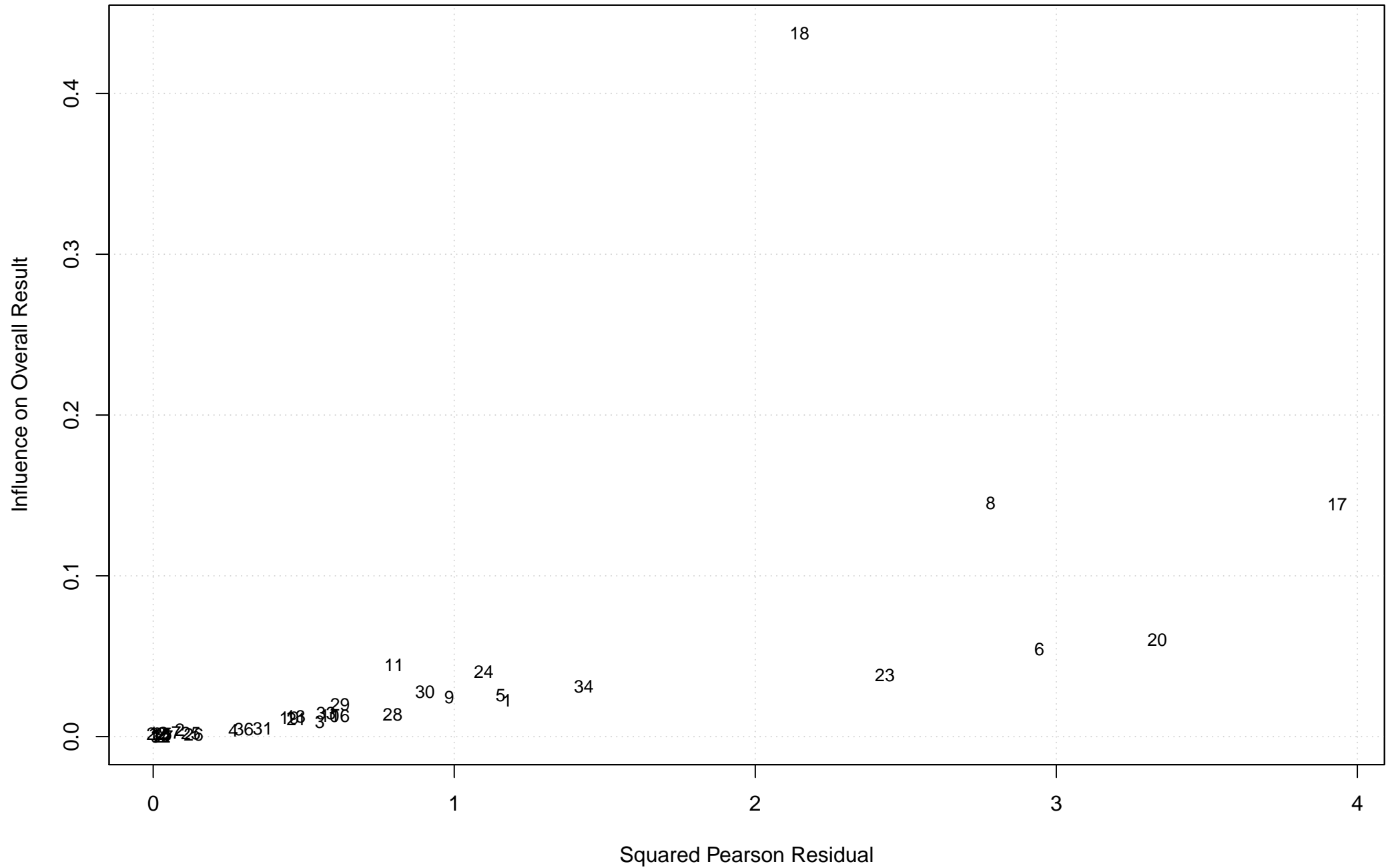
Random Effects model for Sunk Costs

Study	SMD [95% CI]
abington	0.54 [0.10, 0.98]
brasilia	0.24 [−0.12, 0.60]
charles	0.46 [0.02, 0.90]
conncoll	0.40 [−0.00, 0.81]
csun	0.52 [0.12, 0.93]
help	−0.06 [−0.45, 0.33]
ithaca	0.23 [−0.19, 0.66]
jmu	0.56 [0.26, 0.87]
ku	0.49 [0.11, 0.86]
laurier	0.44 [0.07, 0.82]
lse	0.41 [0.17, 0.65]
luc	0.27 [−0.06, 0.60]
mcdaniel	0.15 [−0.25, 0.55]
msvu	0.33 [−0.10, 0.76]
mturk	0.31 [0.18, 0.43]
osu	0.45 [0.07, 0.84]
oxy	0.68 [0.31, 1.04]
pi	0.18 [0.08, 0.29]
psu	0.15 [−0.25, 0.55]
qccuny	−0.08 [−0.47, 0.31]
qccuny2	0.14 [−0.28, 0.56]
sdsu	0.28 [−0.03, 0.59]
swps	−0.07 [−0.51, 0.37]
swpson	0.12 [−0.18, 0.43]
tamu	0.35 [0.06, 0.64]
tamuc	0.37 [−0.05, 0.80]
tamuon	0.32 [0.05, 0.59]
tilburg	0.50 [0.05, 0.95]
ufl	0.15 [−0.20, 0.50]
unipd	0.46 [0.13, 0.79]
uva	0.43 [−0.01, 0.88]
vcu	0.32 [−0.05, 0.70]
wisc	0.13 [−0.27, 0.53]
wku	0.05 [−0.35, 0.44]
wl	0.25 [−0.16, 0.67]
wpi	0.42 [−0.01, 0.84]
RE Model	0.29 [0.24, 0.35]

Standardized Mean Difference

Funnel plot
RE model for Sunk Costs
dotted line = ES estimate

Inverse Standard Error

Observed Outcome
(Areas around ES=0 indicate pseudo CIs 90, 95, 99)

Influence plot (Baujat)
RE model for Sunk Costs

Radial plot (Galbraith)
RE model for Sunk Costs

$z_i = \dfrac{y_i}{\sqrt{v_i + \tau^2}}$

$x_i = 1/\sqrt{v_i + \tau^2}$

ManyLabs1: https://osf.io/wx7ck/
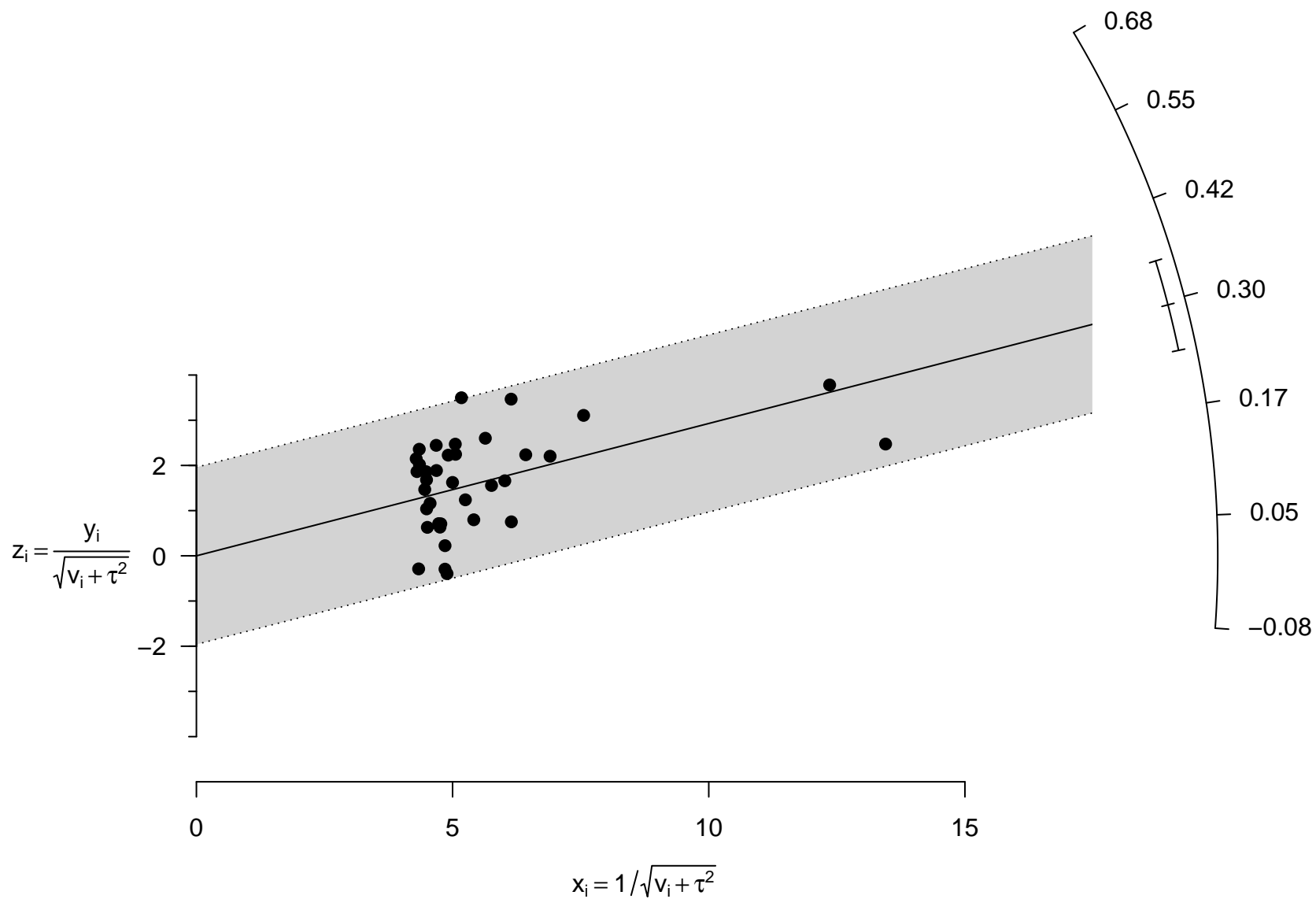
Output of Random Effects model for Gain vs loss framing

```
Random-Effects Model (k = 36; tau^2 estimator: REML)

tau^2 (estimated amount of total heterogeneity): 0.0000 (SE = 0.0049)
tau (square root of estimated tau^2 value):      0.0019
I^2 (total heterogeneity / total variability):   0.01%
H^2 (total variability / sampling variability):  1.00

Test for Heterogeneity:
Q(df = 35) = 37.0116, p-val = 0.3762

Model Results:

estimate      se     zval     pval    ci.lb    ci.ub
  0.6601   0.0296  22.2670  <.0001   0.6020   0.7182   ***

---
Signif. codes:  0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ....... 0.1 ... ... 1
```
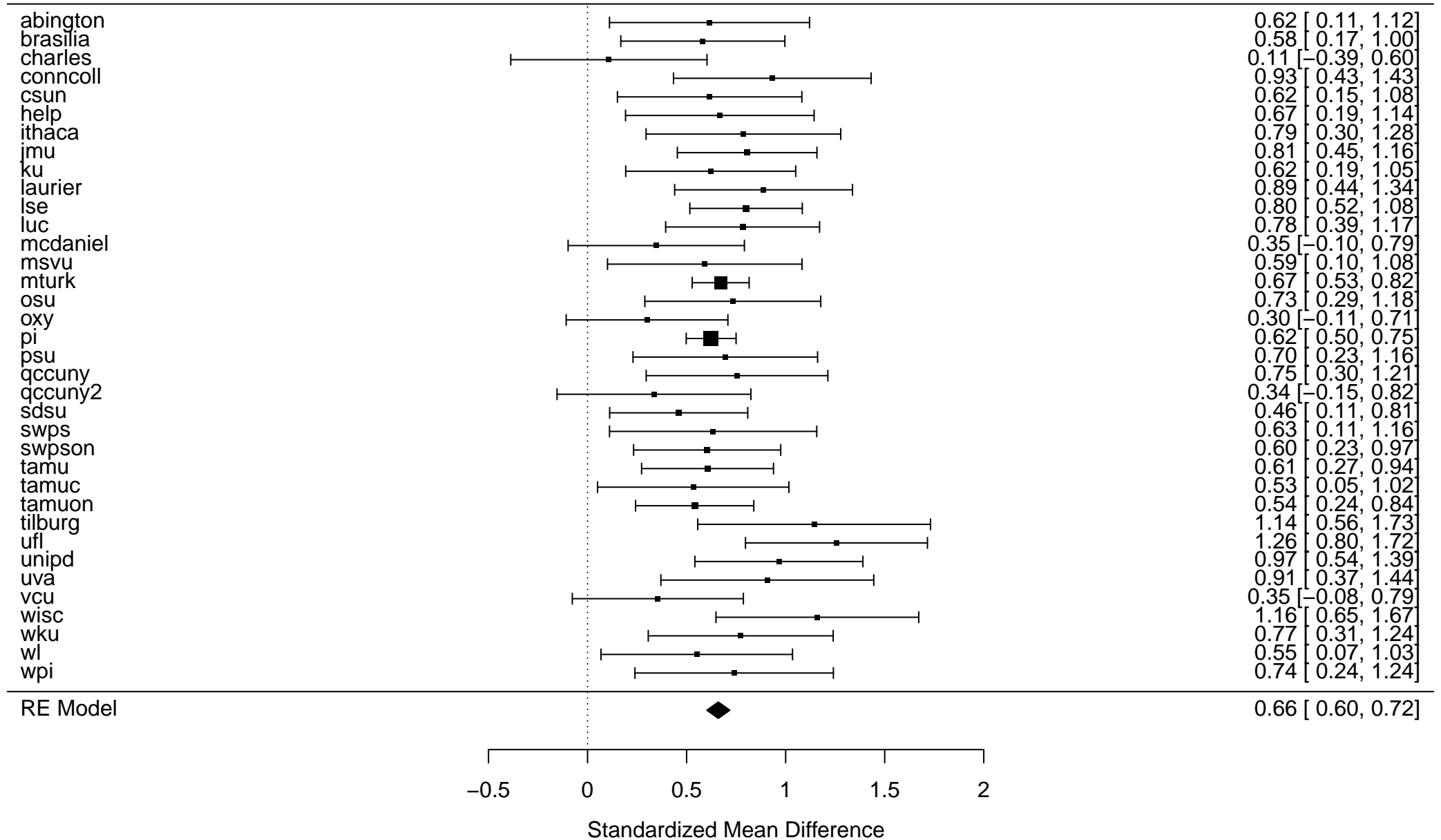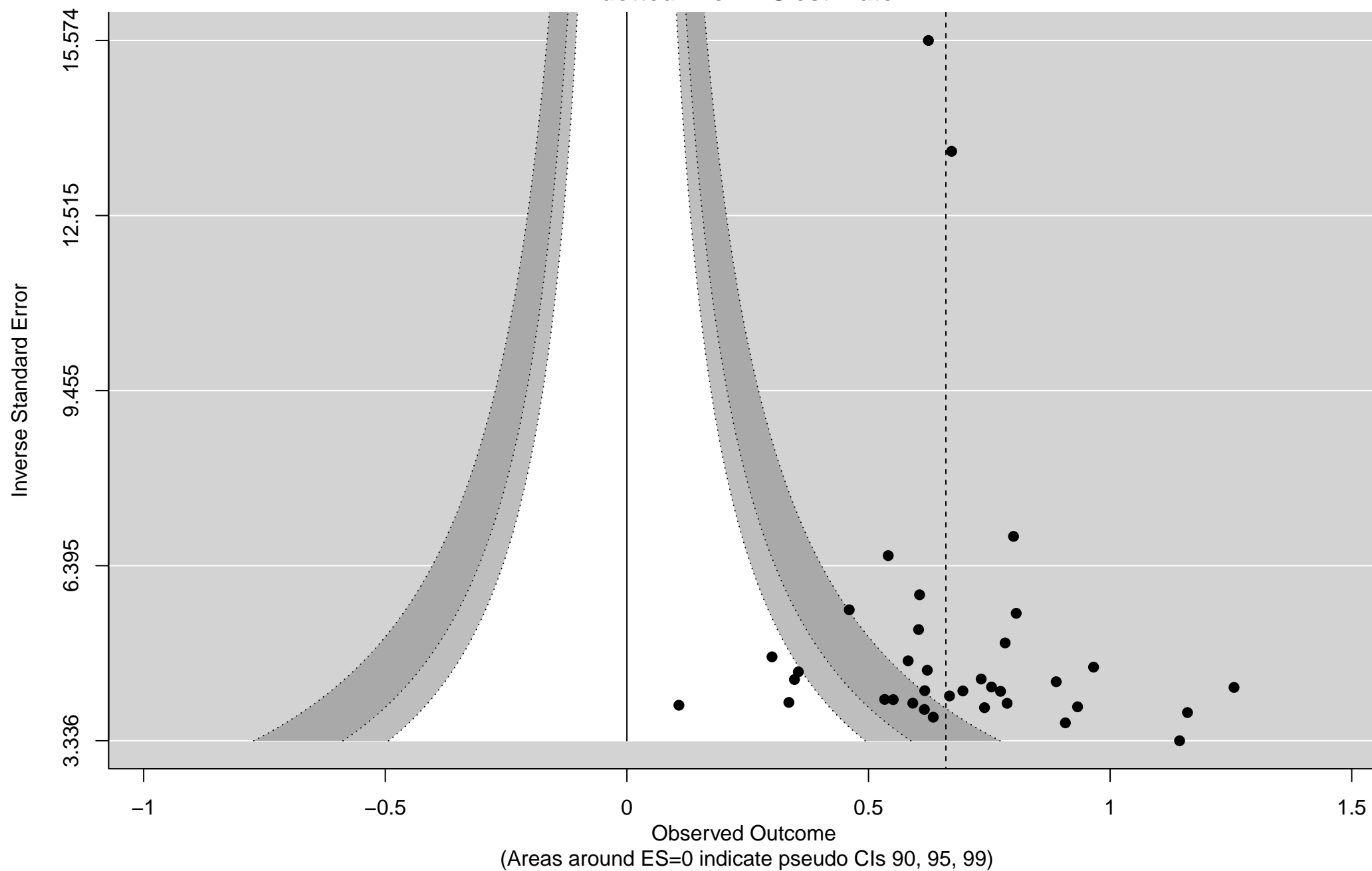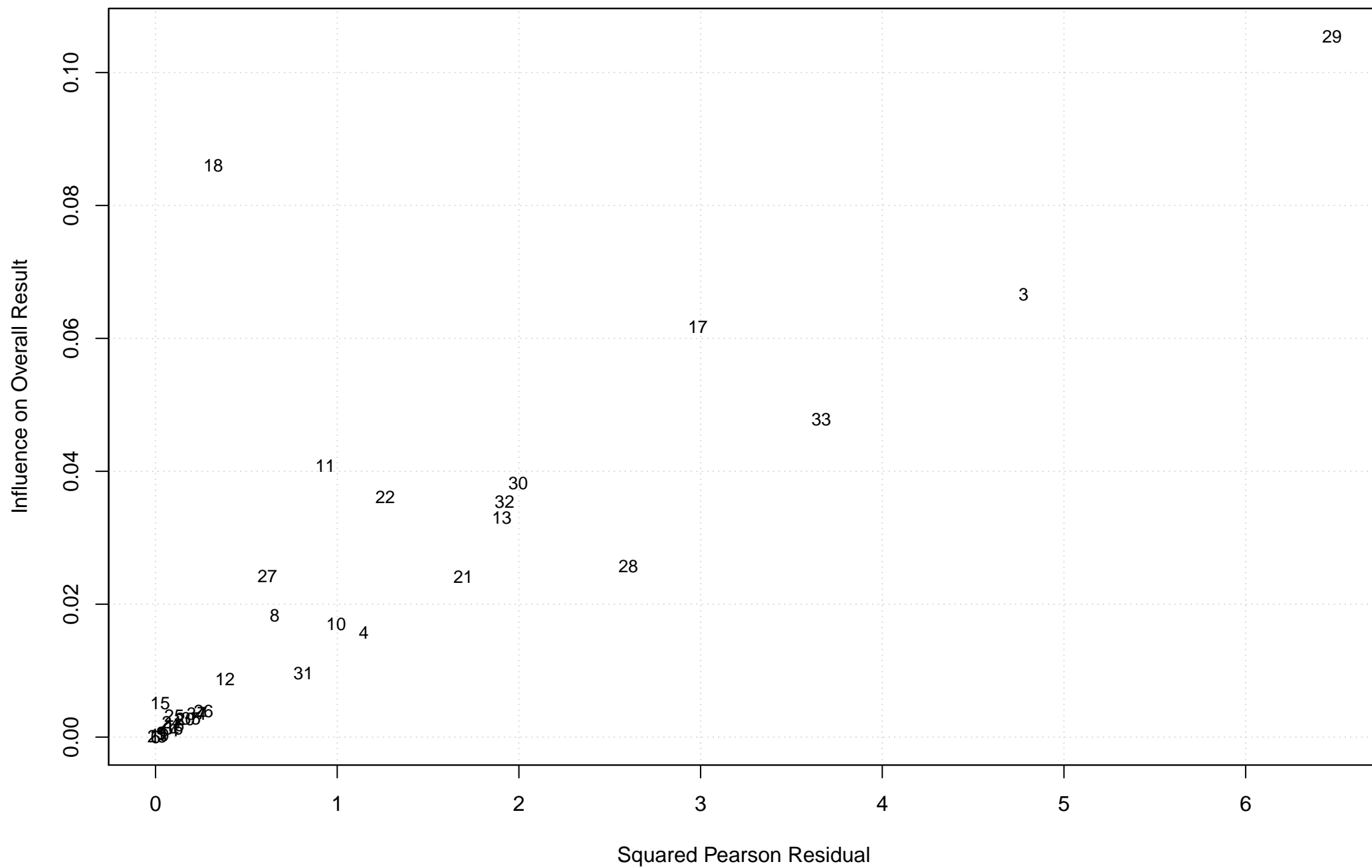
Random Effects model for Gain vs loss framing

abington		0.62 [0.11, 1.12]
brasilia		0.58 [0.17, 1.00]
charles		0.11 [−0.39, 0.60]
conncoll		0.93 [0.43, 1.43]
csun		0.62 [0.15, 1.08]
help		0.67 [0.19, 1.14]
ithaca		0.79 [0.30, 1.28]
jmu		0.81 [0.45, 1.16]
ku		0.62 [0.19, 1.05]
laurier		0.89 [0.44, 1.34]
lse		0.80 [0.52, 1.08]
luc		0.78 [0.39, 1.17]
mcdaniel		0.35 [−0.10, 0.79]
msvu		0.59 [0.10, 1.08]
mturk		0.67 [0.53, 0.82]
osu		0.73 [0.29, 1.18]
oxy		0.30 [−0.11, 0.71]
pi		0.62 [0.50, 0.75]
psu		0.70 [0.23, 1.16]
qccuny		0.75 [0.30, 1.21]
qccuny2		0.34 [−0.15, 0.82]
sdsu		0.46 [0.11, 0.81]
swps		0.63 [0.11, 1.16]
swpson		0.60 [0.23, 0.97]
tamu		0.61 [0.27, 0.94]
tamuc		0.53 [0.05, 1.02]
tamuon		0.54 [0.24, 0.84]
tilburg		1.14 [0.56, 1.73]
ufl		1.26 [0.80, 1.72]
unipd		0.97 [0.54, 1.39]
uva		0.91 [0.37, 1.44]
vcu		0.35 [−0.08, 0.79]
wisc		1.16 [0.65, 1.67]
wku		0.77 [0.31, 1.24]
wl		0.55 [0.07, 1.03]
wpi		0.74 [0.24, 1.24]
RE Model		0.66 [0.60, 0.72]

Standardized Mean Difference

Funnel plot
RE model for Gain vs loss framing
dotted line = ES estimate

Inverse Standard Error

Observed Outcome
(Areas around ES=0 indicate pseudo CIs 90, 95, 99)

Influence plot (Baujat)
RE model for Gain vs loss framing

Radial plot (Galbraith)
RE model for Gain vs loss framing

$z_i = \dfrac{y_i}{\sqrt{v_i + \tau^2}}$

$x_i = 1/\sqrt{v_i + \tau^2}$

ManyLabs1: https://osf.io/wx7ck/
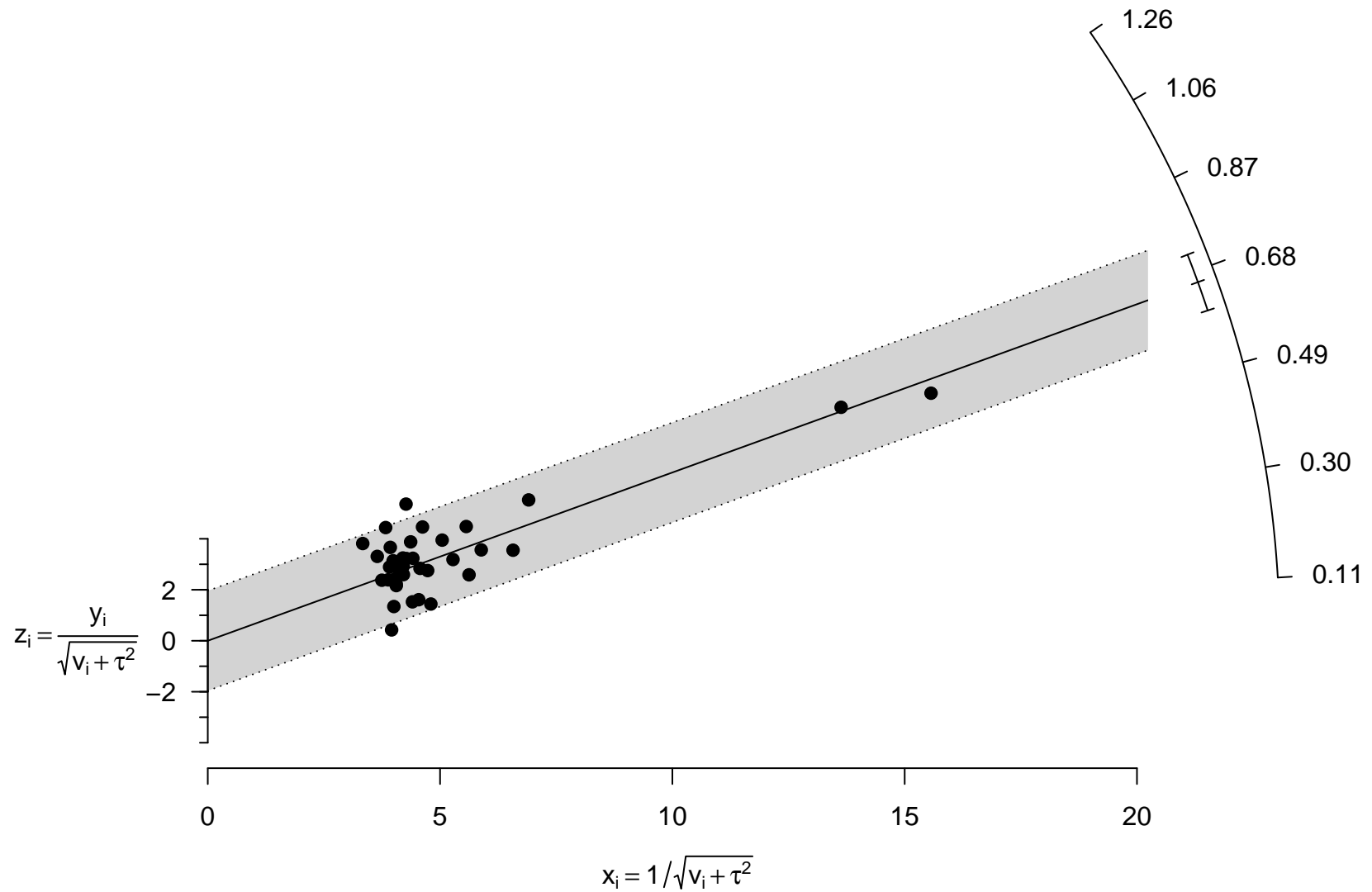
Output of Random Effects model for Anchoring – Distance to NYC

```
Random-Effects Model (k = 36; tau^2 estimator: REML)

tau^2 (estimated amount of total heterogeneity): 0.0230 (SE = 0.0154)
tau (square root of estimated tau^2 value):       0.1517
I^2 (total heterogeneity / total variability):   40.23%
H^2 (total variability / sampling variability):  1.67

Test for Heterogeneity:
Q(df = 35) = 59.7076, p-val = 0.0057

Model Results:

estimate      se     zval     pval    ci.lb   ci.ub
  1.2089  0.0439  27.5201  <.0001  1.1228  1.2950  ***

---
Signif. codes:  0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ....... 0.1 ... ... 1
```
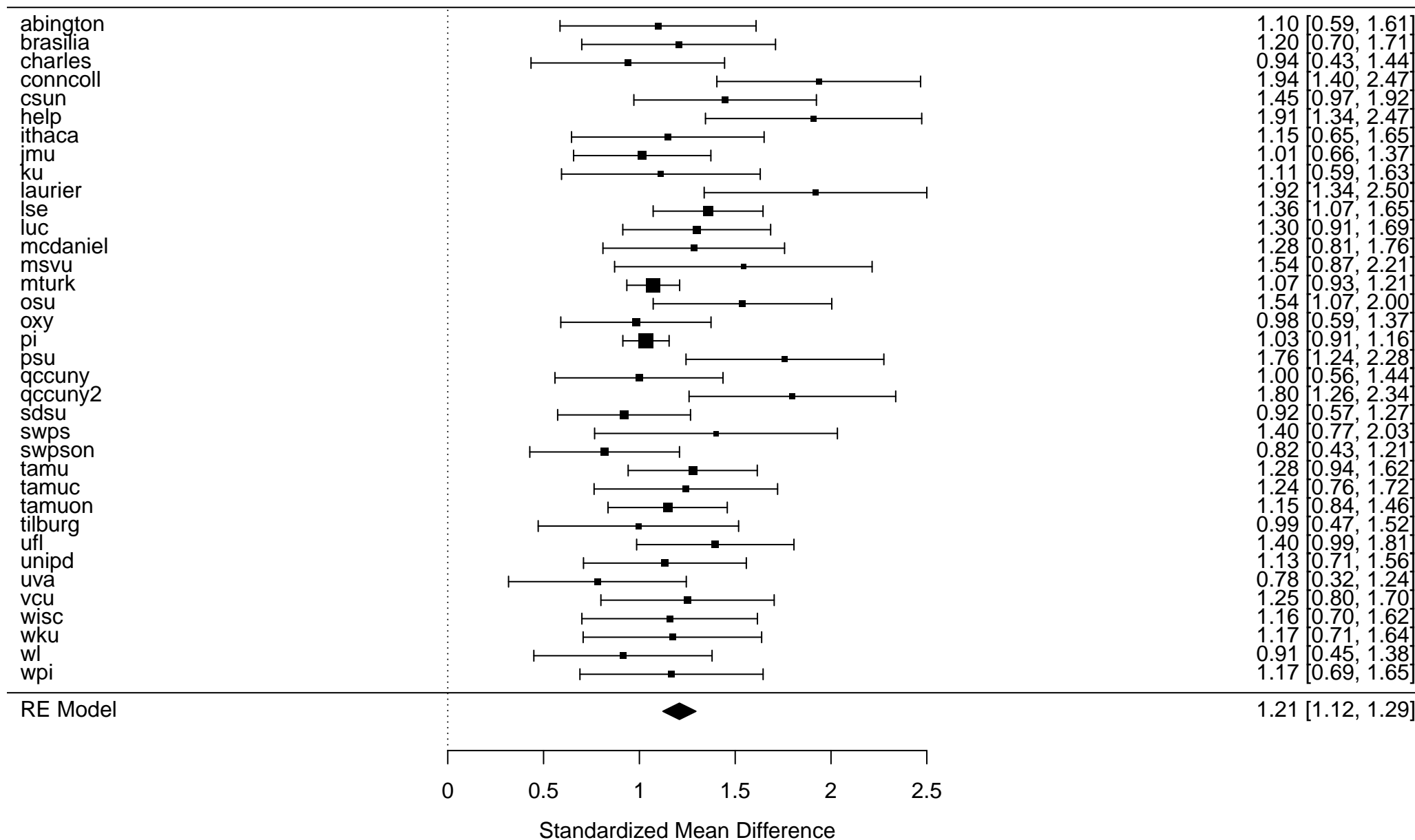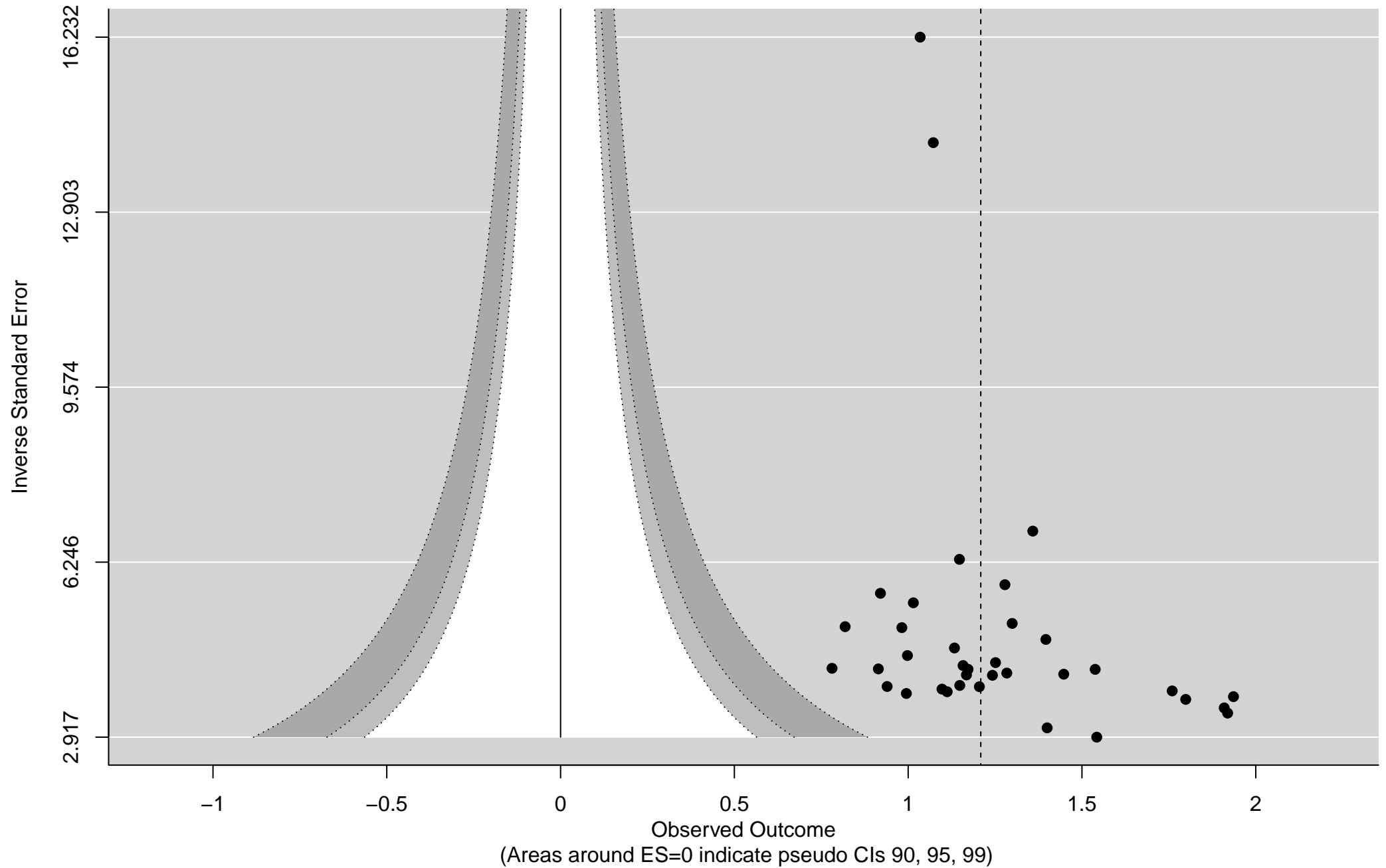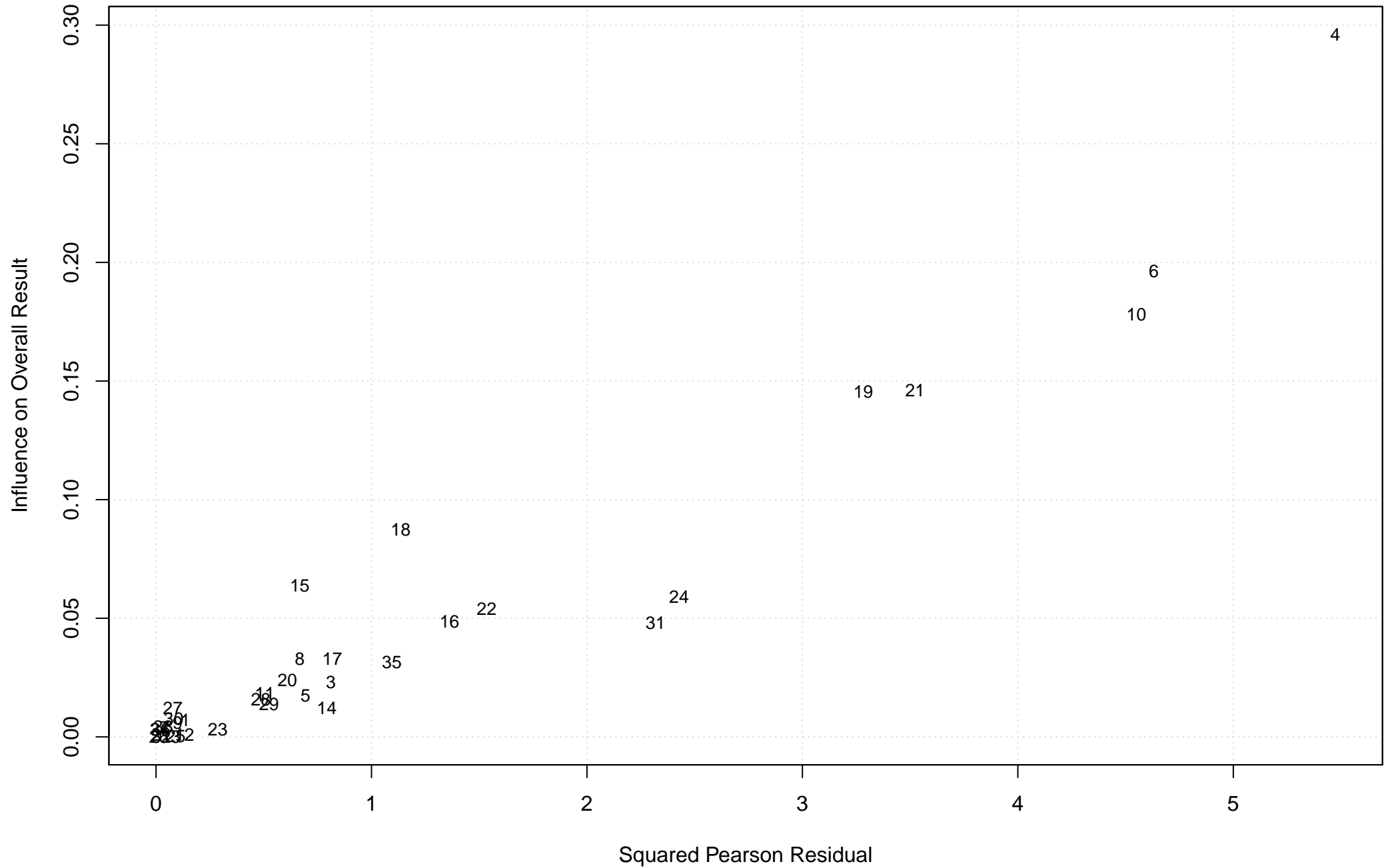
Random Effects model for Anchoring – Distance to NYC

abington	1.10 [0.59, 1.61]
brasilia	1.20 [0.70, 1.71]
charles	0.94 [0.43, 1.44]
conncoll	1.94 [1.40, 2.47]
csun	1.45 [0.97, 1.92]
help	1.91 [1.34, 2.47]
ithaca	1.15 [0.65, 1.65]
jmu	1.01 [0.66, 1.37]
ku	1.11 [0.59, 1.63]
laurier	1.92 [1.34, 2.50]
lse	1.36 [1.07, 1.65]
luc	1.30 [0.91, 1.69]
mcdaniel	1.28 [0.81, 1.76]
msvu	1.54 [0.87, 2.21]
mturk	1.07 [0.93, 1.21]
osu	1.54 [1.07, 2.00]
oxy	0.98 [0.59, 1.37]
pi	1.03 [0.91, 1.16]
psu	1.76 [1.24, 2.28]
qccuny	1.00 [0.56, 1.44]
qccuny2	1.80 [1.26, 2.34]
sdsu	0.92 [0.57, 1.27]
swps	1.40 [0.77, 2.03]
swpson	0.82 [0.43, 1.21]
tamu	1.28 [0.94, 1.62]
tamuc	1.24 [0.76, 1.72]
tamuon	1.15 [0.84, 1.46]
tilburg	0.99 [0.47, 1.52]
ufl	1.40 [0.99, 1.81]
unipd	1.13 [0.71, 1.56]
uva	0.78 [0.32, 1.24]
vcu	1.25 [0.80, 1.70]
wisc	1.16 [0.70, 1.62]
wku	1.17 [0.71, 1.64]
wl	0.91 [0.45, 1.38]
wpi	1.17 [0.69, 1.65]
RE Model	1.21 [1.12, 1.29]

Standardized Mean Difference

Funnel plot
RE model for Anchoring – Distance to NYC
dotted line = ES estimate

Inverse Standard Error

Observed Outcome
(Areas around ES=0 indicate pseudo CIs 90, 95, 99)

Influence plot (Baujat)
RE model for Anchoring – Distance to NYC

Influence on Overall Result

Squared Pearson Residual

Radial plot (Galbraith)
RE model for Anchoring – Distance to NYC

$z_i = \dfrac{y_i}{\sqrt{v_i + \tau^2}}$

$x_i = 1/\sqrt{v_i + \tau^2}$
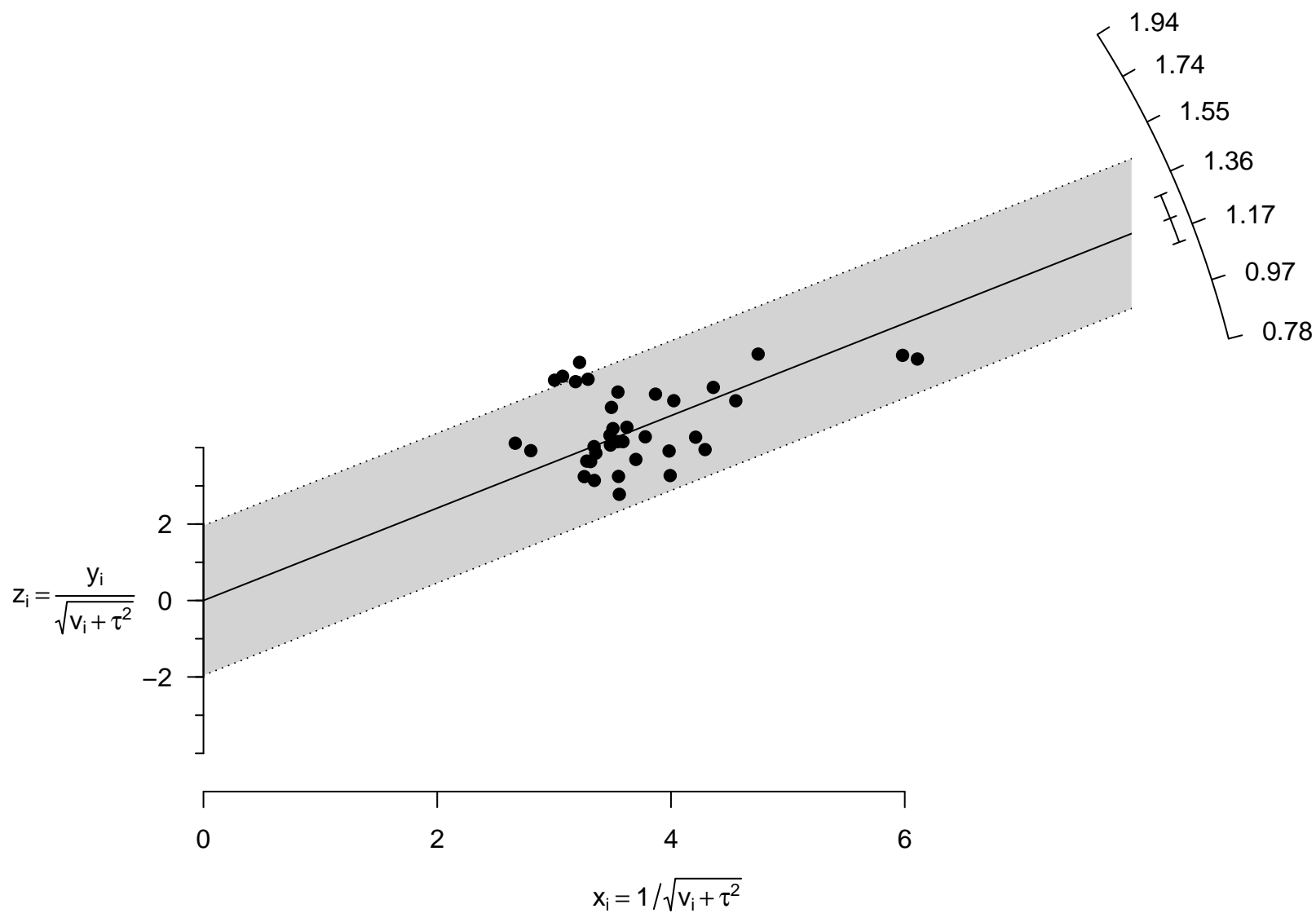
Output of Random Effects model for Anchoring – Chicago

```
Random-Effects Model (k = 36; tau^2 estimator: REML)

tau^2 (estimated amount of total heterogeneity): 0.1284 (SE = 0.0456)
tau (square root of estimated tau^2 value):       0.3583
I^2 (total heterogeneity / total variability):   75.36%
H^2 (total variability / sampling variability):  4.06


Test for Heterogeneity:
Q(df = 35) = 152.3407, p-val < .0001


Model Results:

estimate      se      zval     pval    ci.lb   ci.ub
  1.9969   0.0732   27.2643   <.0001   1.8533   2.1404   ***


---
Signif. codes:  0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ....... 0.1 ... ... 1
```
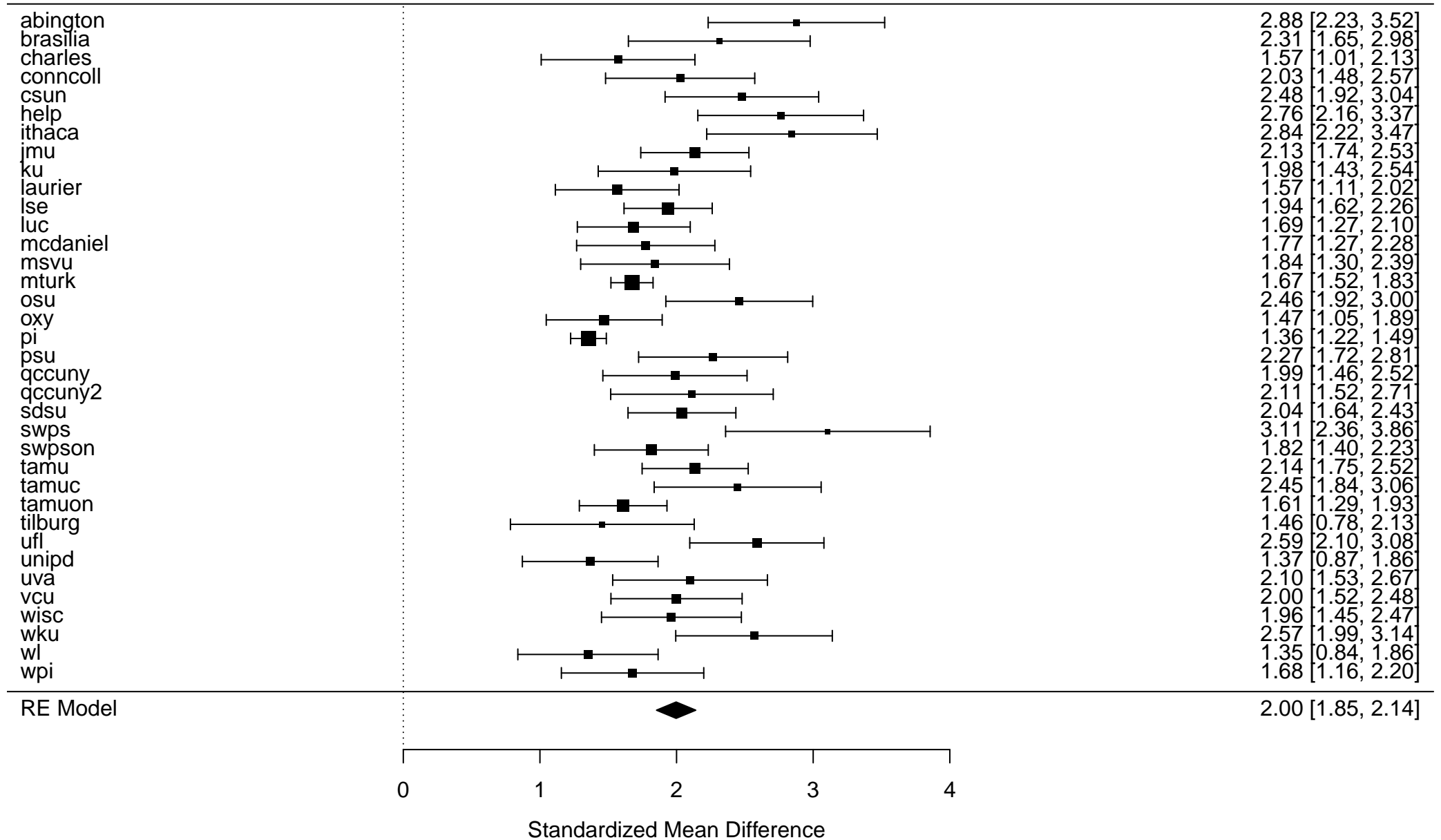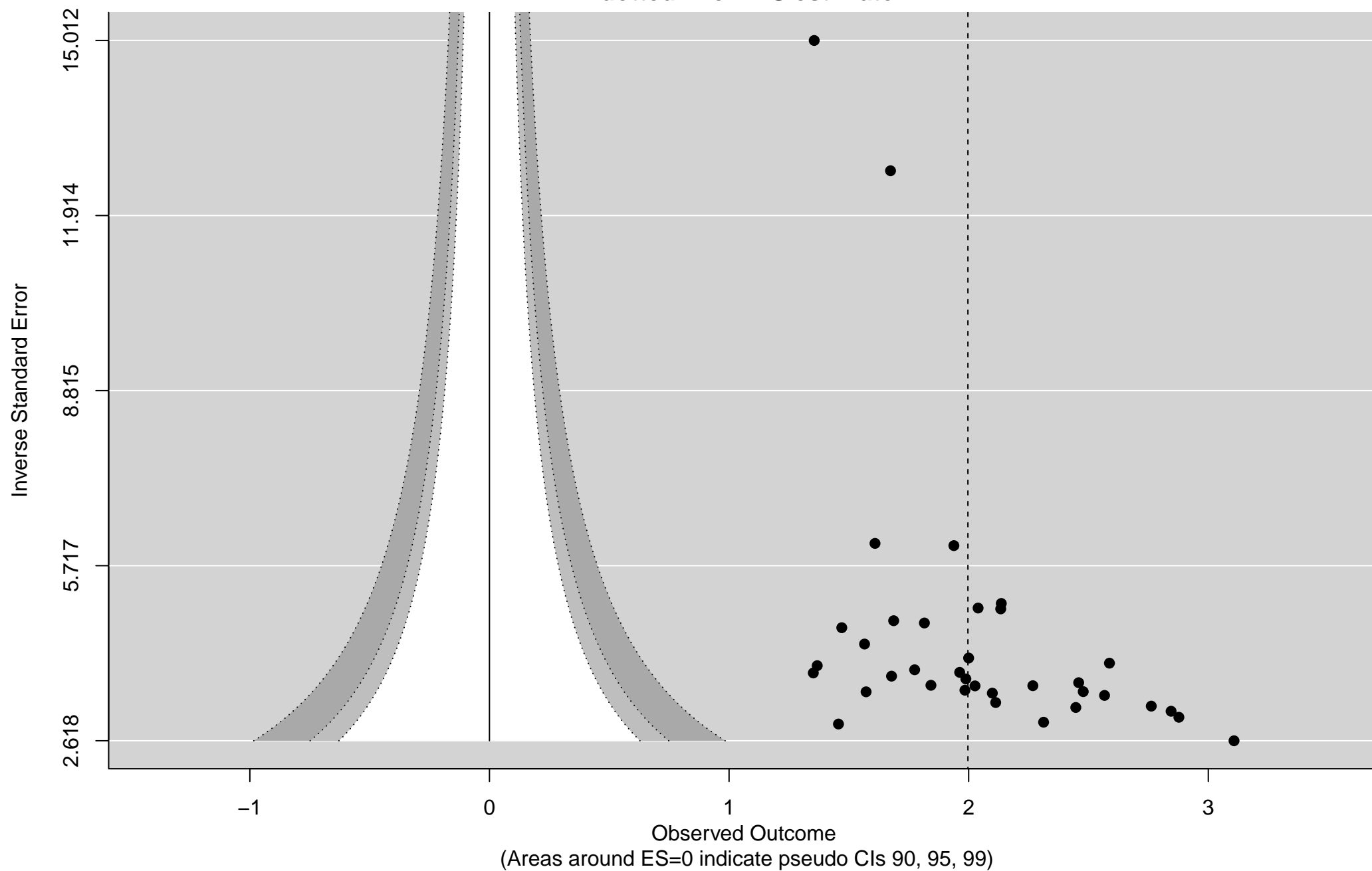
Random Effects model for Anchoring – Chicago

abington	2.88 [2.23, 3.52]
brasilia	2.31 [1.65, 2.98]
charles	1.57 [1.01, 2.13]
conncoll	2.03 [1.48, 2.57]
csun	2.48 [1.92, 3.04]
help	2.76 [2.16, 3.37]
ithaca	2.84 [2.22, 3.47]
jmu	2.13 [1.74, 2.53]
ku	1.98 [1.43, 2.54]
laurier	1.57 [1.11, 2.02]
lse	1.94 [1.62, 2.26]
luc	1.69 [1.27, 2.10]
mcdaniel	1.77 [1.27, 2.28]
msvu	1.84 [1.30, 2.39]
mturk	1.67 [1.52, 1.83]
osu	2.46 [1.92, 3.00]
oxy	1.47 [1.05, 1.89]
pi	1.36 [1.22, 1.49]
psu	2.27 [1.72, 2.81]
qccuny	1.99 [1.46, 2.52]
qccuny2	2.11 [1.52, 2.71]
sdsu	2.04 [1.64, 2.43]
swps	3.11 [2.36, 3.86]
swpson	1.82 [1.40, 2.23]
tamu	2.14 [1.75, 2.52]
tamuc	2.45 [1.84, 3.06]
tamuon	1.61 [1.29, 1.93]
tilburg	1.46 [0.78, 2.13]
ufl	2.59 [2.10, 3.08]
unipd	1.37 [0.87, 1.86]
uva	2.10 [1.53, 2.67]
vcu	2.00 [1.52, 2.48]
wisc	1.96 [1.45, 2.47]
wku	2.57 [1.99, 3.14]
wl	1.35 [0.84, 1.86]
wpi	1.68 [1.16, 2.20]
RE Model	2.00 [1.85, 2.14]

Standardized Mean Difference

Funnel plot
RE model for Anchoring – Chicago
dotted line = ES estimate
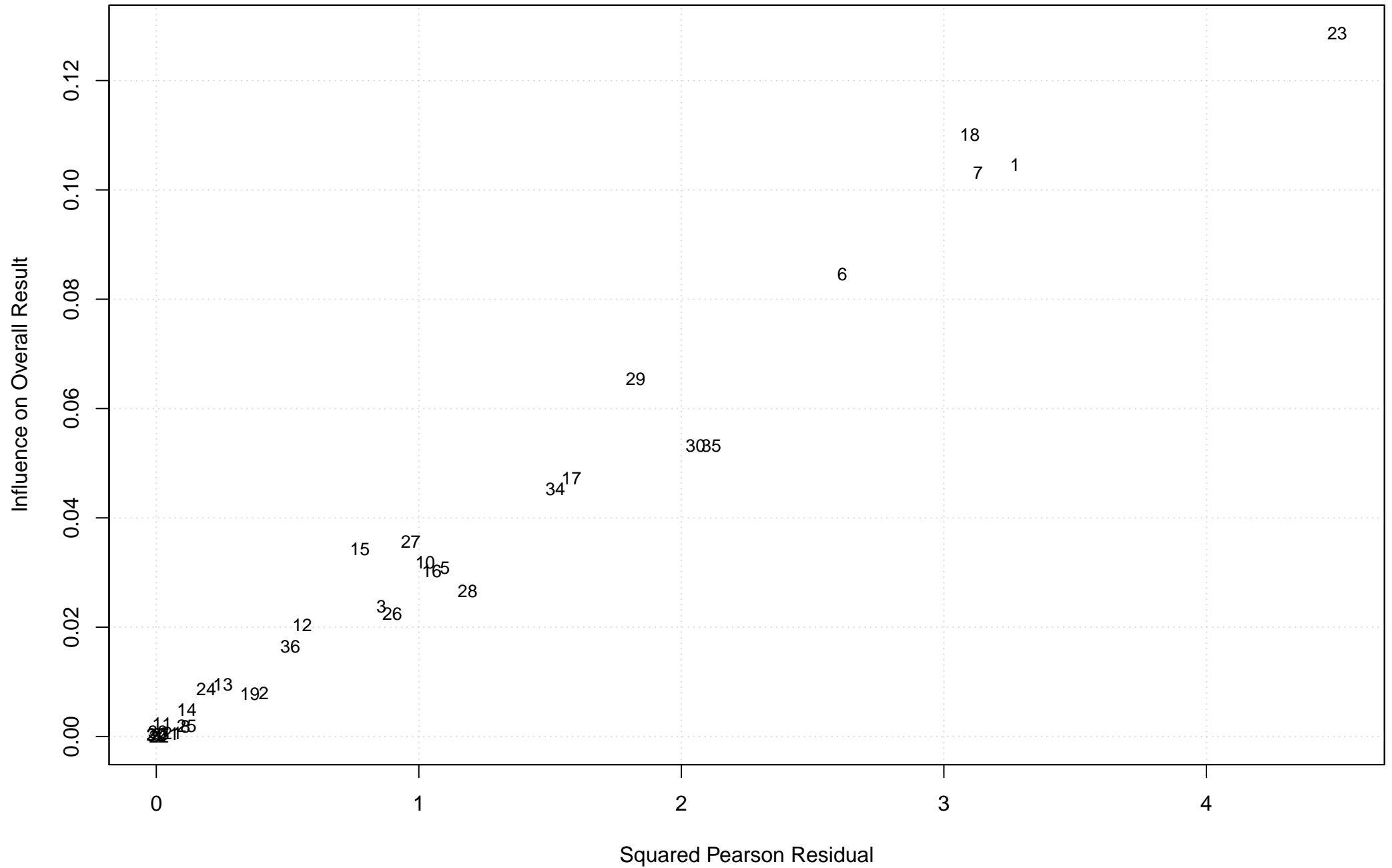
Observed Outcome
(Areas around ES=0 indicate pseudo CIs 90, 95, 99)

Influence plot (Baujat)
RE model for Anchoring – Chicago

Radial plot (Galbraith)
RE model for Anchoring – Chicago

$$z_i = \frac{y_i}{\sqrt{v_i + \tau^2}}$$

$$x_i = 1/\sqrt{v_i + \tau^2}$$
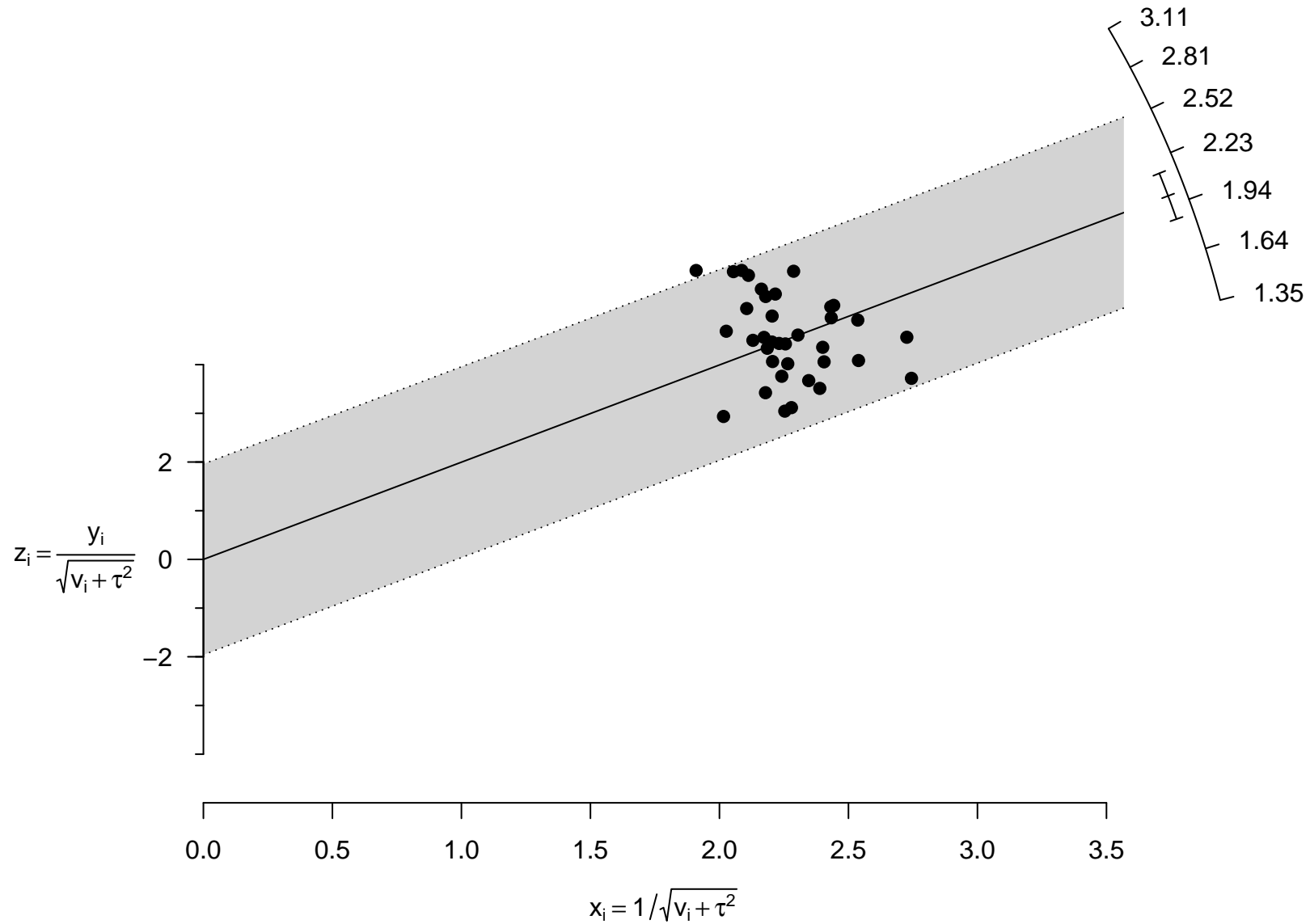
Output of Random Effects model for Anchoring – Mt. Everest

```
Random-Effects Model (k = 36; tau^2 estimator: REML)

tau^2 (estimated amount of total heterogeneity): 0.4797 (SE = 0.1327)
tau (square root of estimated tau^2 value):      0.6926
I^2 (total heterogeneity / total variability):   91.29%
H^2 (total variability / sampling variability):  11.48

Test for Heterogeneity:
Q(df = 35) = 312.7508, p-val < .0001

Model Results:

estimate      se     zval     pval    ci.lb   ci.ub
  2.4126   0.1243  19.4066  <.0001  2.1689  2.6563   ***

---
Signif. codes:  0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ....... 0.1 ... ... 1
```
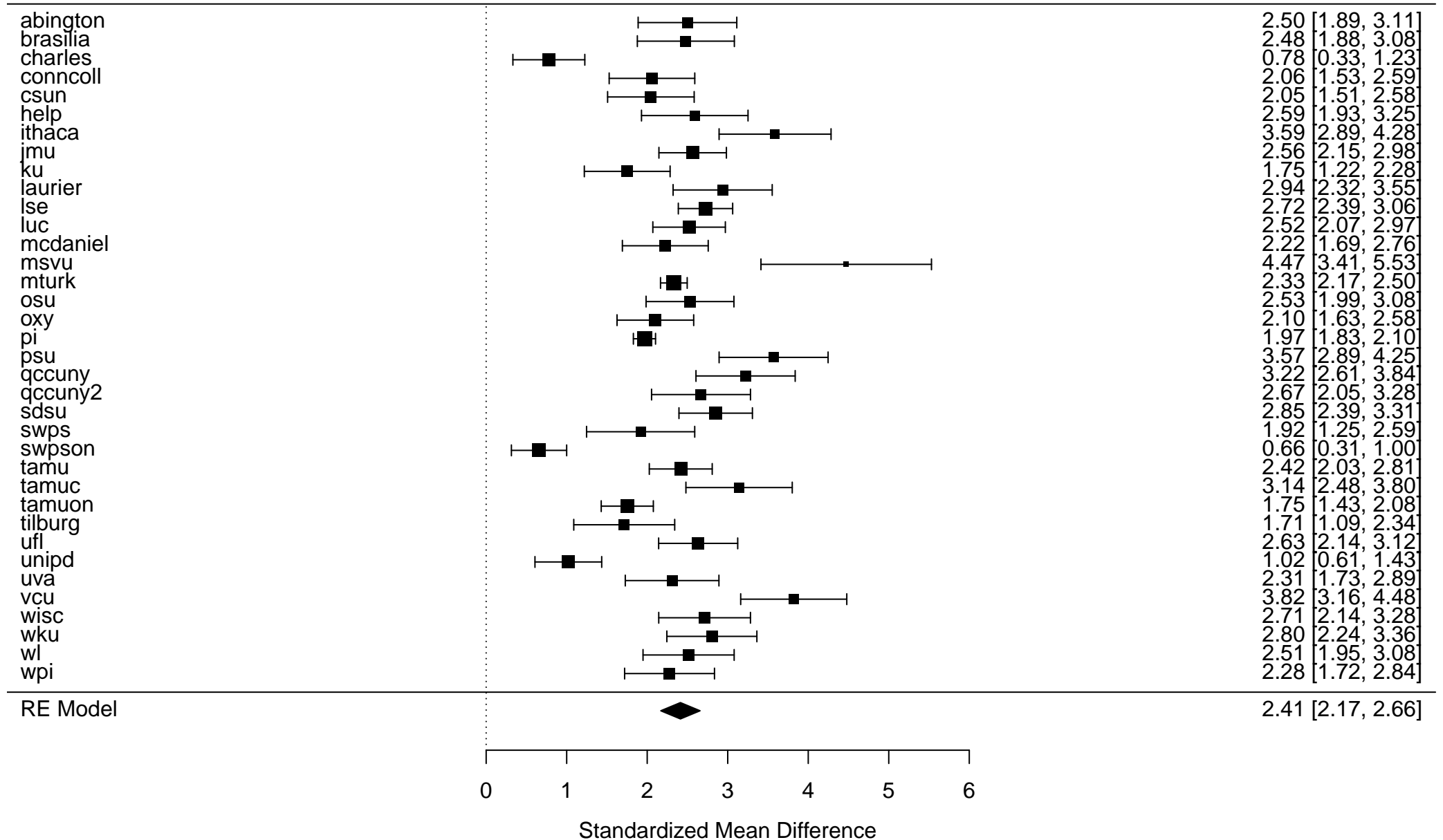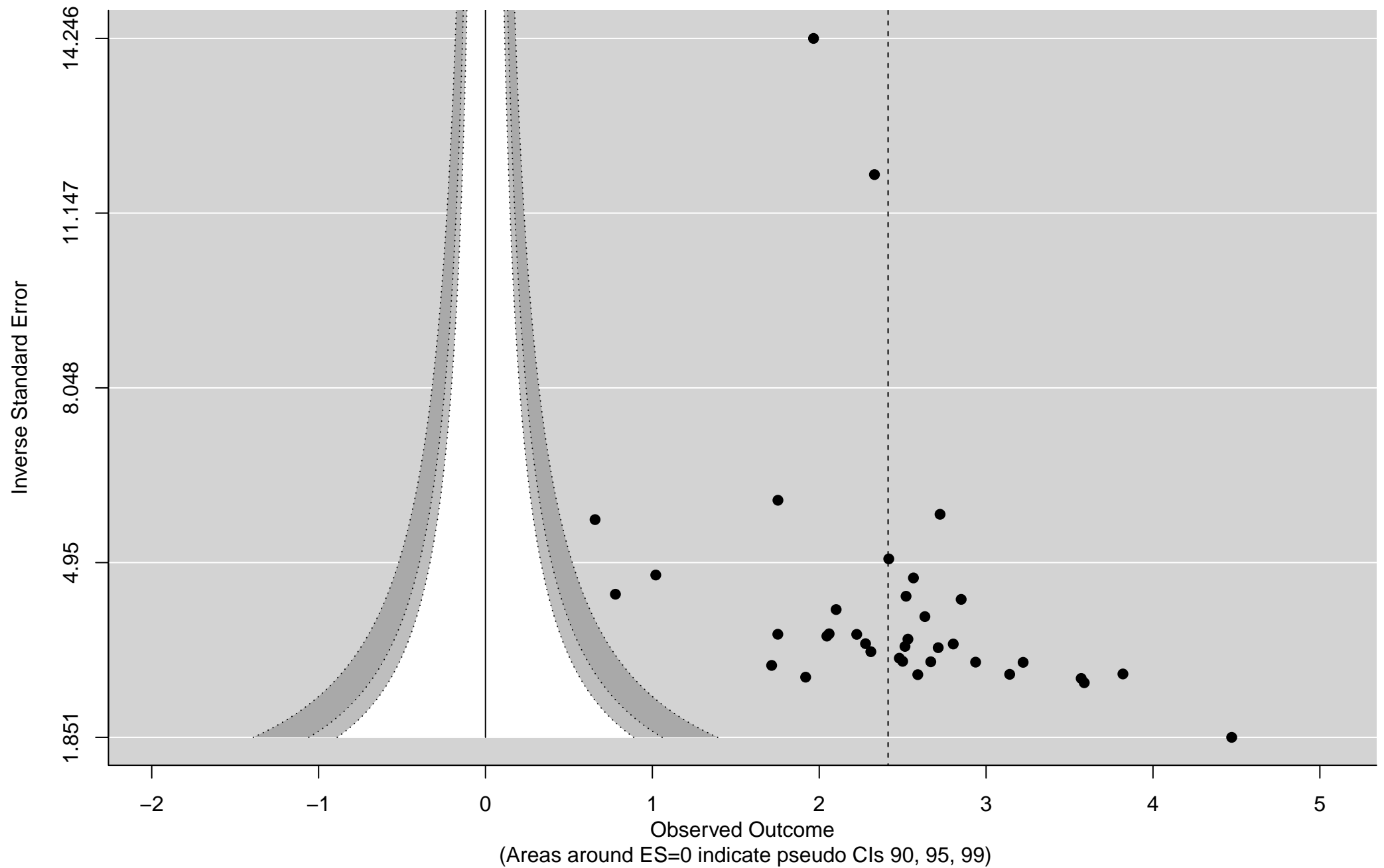
Random Effects model for Anchoring – Mt. Everest

Study	SMD [95% CI]
abington	2.50 [1.89, 3.11]
brasilia	2.48 [1.88, 3.08]
charles	0.78 [0.33, 1.23]
conncoll	2.06 [1.53, 2.59]
csun	2.05 [1.51, 2.58]
help	2.59 [1.93, 3.25]
ithaca	3.59 [2.89, 4.28]
jmu	2.56 [2.15, 2.98]
ku	1.75 [1.22, 2.28]
laurier	2.94 [2.32, 3.55]
lse	2.72 [2.39, 3.06]
luc	2.52 [2.07, 2.97]
mcdaniel	2.22 [1.69, 2.76]
msvu	4.47 [3.41, 5.53]
mturk	2.33 [2.17, 2.50]
osu	2.53 [1.99, 3.08]
oxy	2.10 [1.63, 2.58]
pi	1.97 [1.83, 2.10]
psu	3.57 [2.89, 4.25]
qccuny	3.22 [2.61, 3.84]
qccuny2	2.67 [2.05, 3.28]
sdsu	2.85 [2.39, 3.31]
swps	1.92 [1.25, 2.59]
swpson	0.66 [0.31, 1.00]
tamu	2.42 [2.03, 2.81]
tamuc	3.14 [2.48, 3.80]
tamuon	1.75 [1.43, 2.08]
tilburg	1.71 [1.09, 2.34]
ufl	2.63 [2.14, 3.12]
unipd	1.02 [0.61, 1.43]
uva	2.31 [1.73, 2.89]
vcu	3.82 [3.16, 4.48]
wisc	2.71 [2.14, 3.28]
wku	2.80 [2.24, 3.36]
wl	2.51 [1.95, 3.08]
wpi	2.28 [1.72, 2.84]
RE Model	2.41 [2.17, 2.66]

Standardized Mean Difference

Funnel plot
RE model for Anchoring – Mt. Everest
dotted line = ES estimate
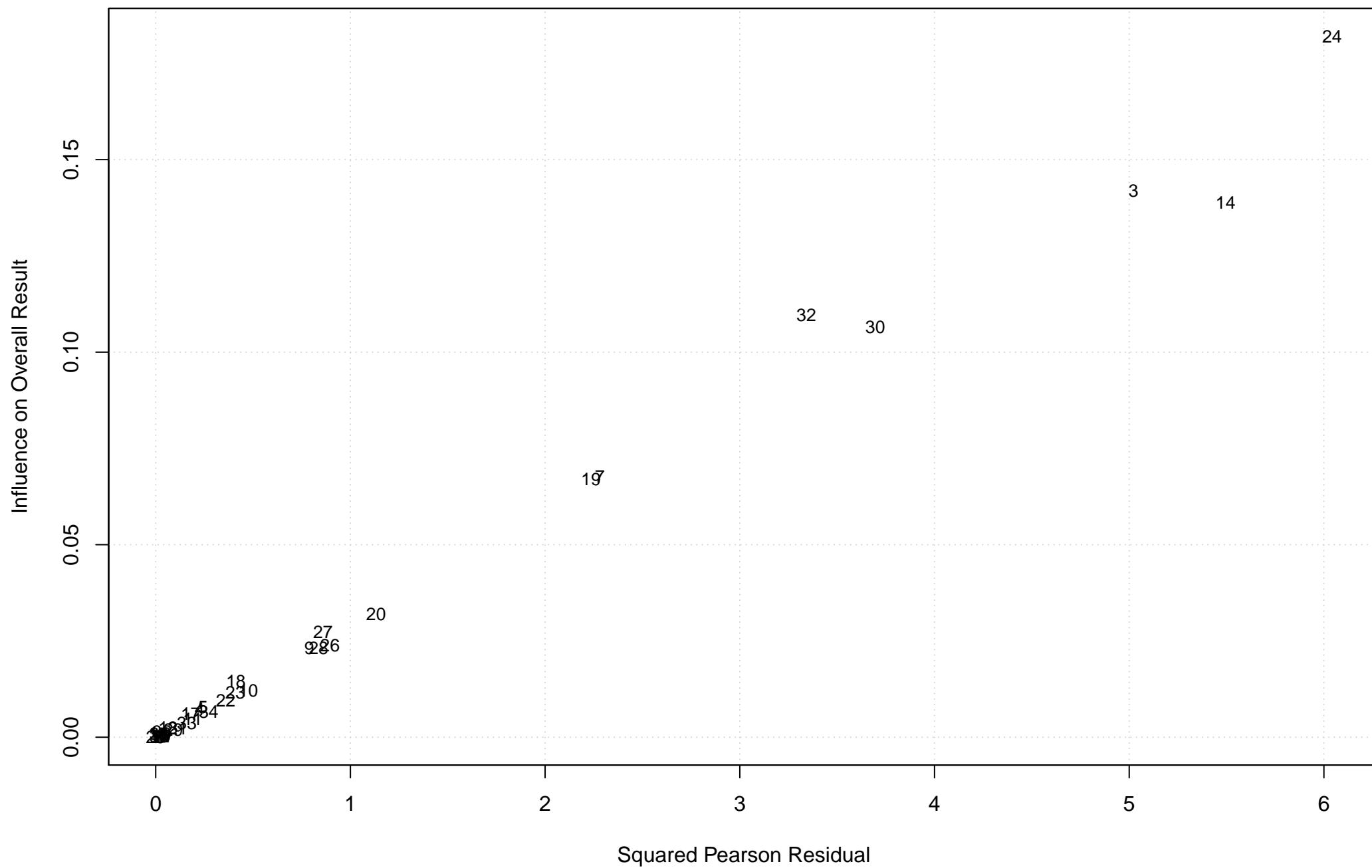
Inverse Standard Error

Observed Outcome
(Areas around ES=0 indicate pseudo CIs 90, 95, 99)

Influence plot (Baujat)
RE model for Anchoring – Mt. Everest

Radial plot (Galbraith)
RE model for Anchoring – Mt. Everest

$z_i = \dfrac{y_i}{\sqrt{v_i + \tau^2}}$

$x_i = 1/\sqrt{v_i + \tau^2}$
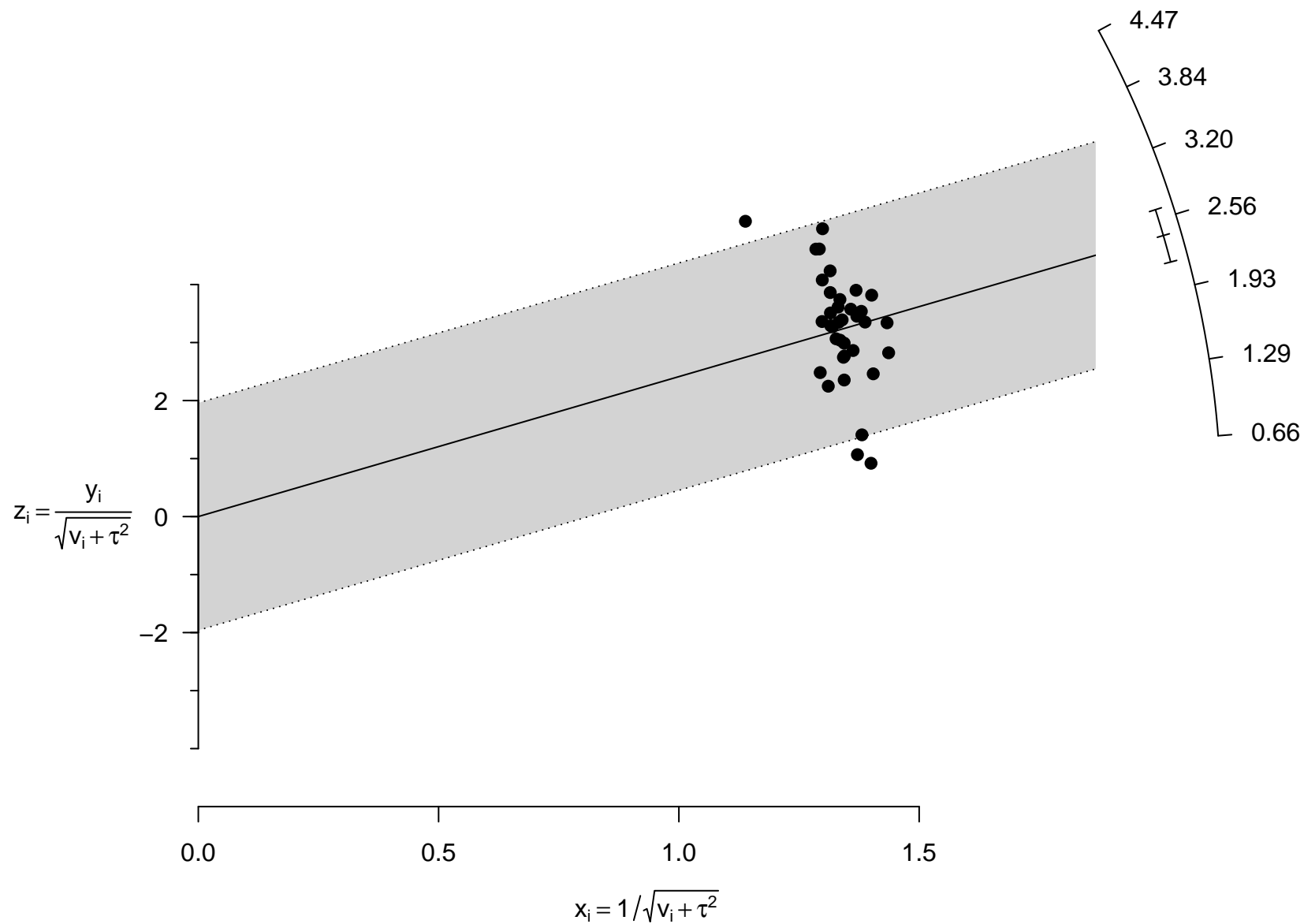
Output of Random Effects model for Anchoring – Babies Born

```
Random-Effects Model (k = 36; tau^2 estimator: REML)

tau^2 (estimated amount of total heterogeneity): 0.0885 (SE = 0.0372)
tau (square root of estimated tau^2 value):       0.2975
I^2 (total heterogeneity / total variability):   64.67%
H^2 (total variability / sampling variability):  2.83


Test for Heterogeneity:
Q(df = 35) = 88.1153, p-val < .0001


Model Results:

estimate      se     zval     pval    ci.lb   ci.ub
  2.5271  0.0664  38.0368   <.0001   2.3969  2.6574   ***


---
Signif. codes:  0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ....... 0.1 ... ... 1
```
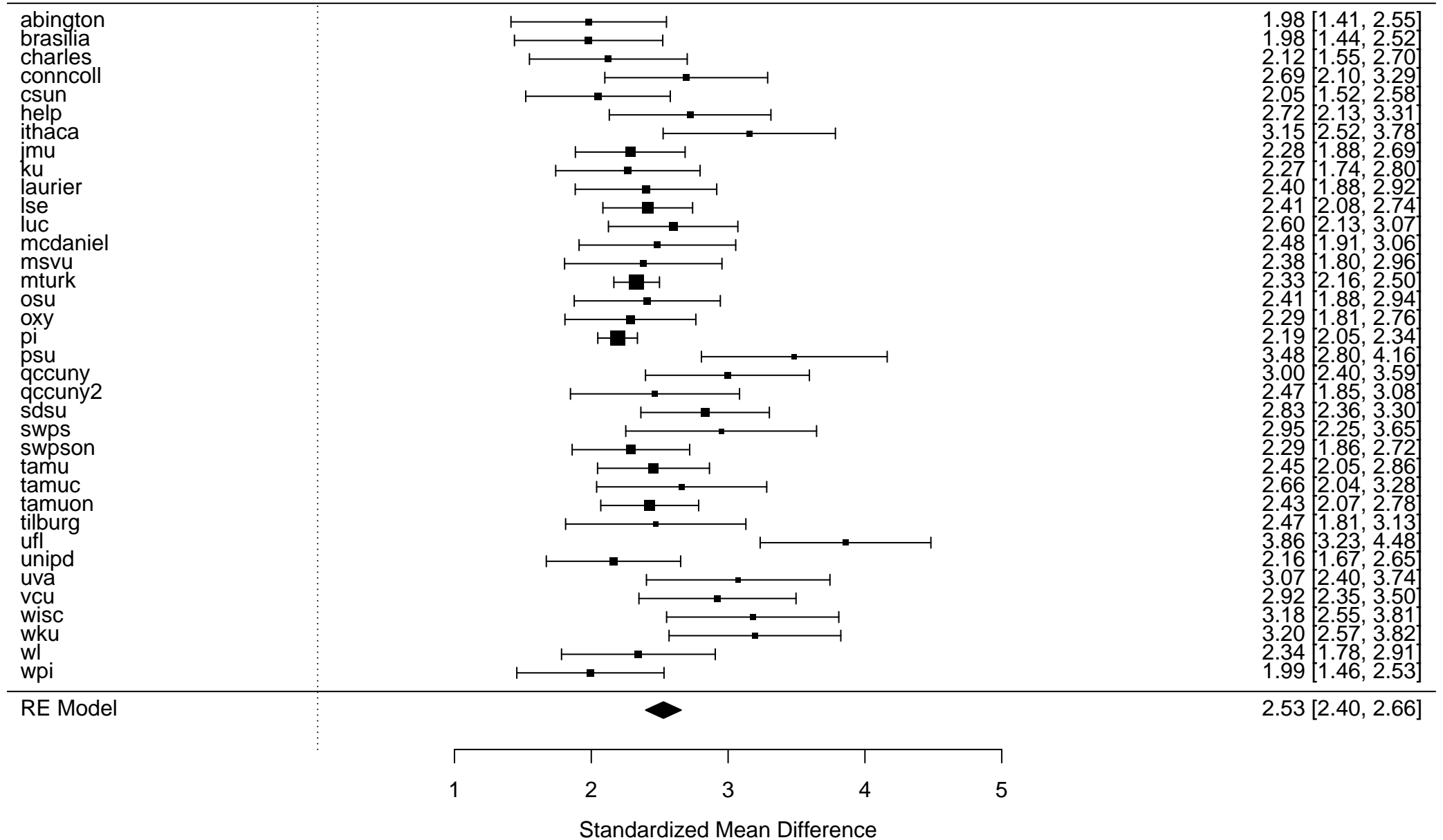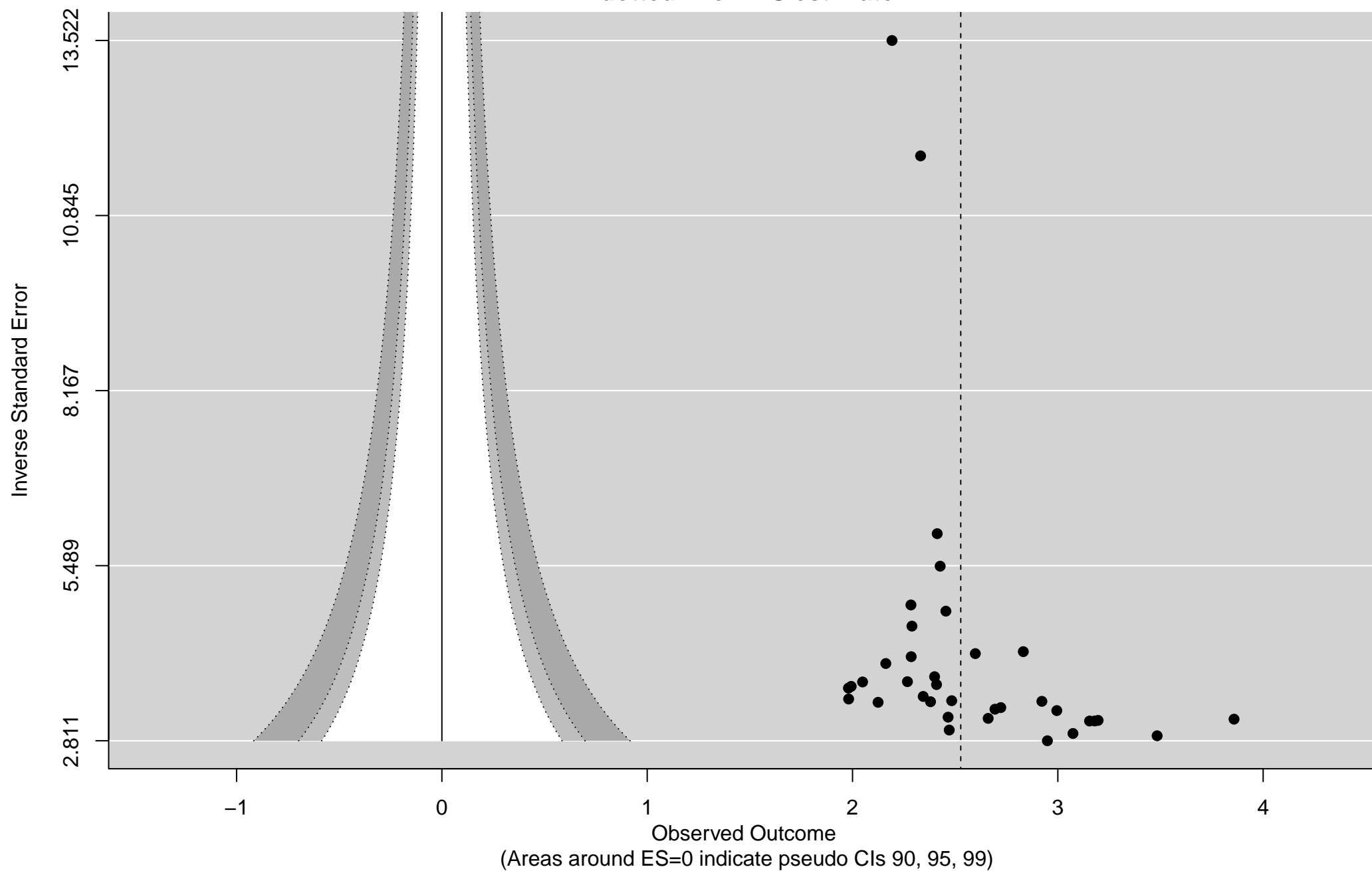
Random Effects model for Anchoring – Babies Born

abington	1.98 [1.41, 2.55]
brasilia	1.98 [1.44, 2.52]
charles	2.12 [1.55, 2.70]
conncoll	2.69 [2.10, 3.29]
csun	2.05 [1.52, 2.58]
help	2.72 [2.13, 3.31]
ithaca	3.15 [2.52, 3.78]
jmu	2.28 [1.88, 2.69]
ku	2.27 [1.74, 2.80]
laurier	2.40 [1.88, 2.92]
lse	2.41 [2.08, 2.74]
luc	2.60 [2.13, 3.07]
mcdaniel	2.48 [1.91, 3.06]
msvu	2.38 [1.80, 2.96]
mturk	2.33 [2.16, 2.50]
osu	2.41 [1.88, 2.94]
oxy	2.29 [1.81, 2.76]
pi	2.19 [2.05, 2.34]
psu	3.48 [2.80, 4.16]
qccuny	3.00 [2.40, 3.59]
qccuny2	2.47 [1.85, 3.08]
sdsu	2.83 [2.36, 3.30]
swps	2.95 [2.25, 3.65]
swpson	2.29 [1.86, 2.72]
tamu	2.45 [2.05, 2.86]
tamuc	2.66 [2.04, 3.28]
tamuon	2.43 [2.07, 2.78]
tilburg	2.47 [1.81, 3.13]
ufl	3.86 [3.23, 4.48]
unipd	2.16 [1.67, 2.65]
uva	3.07 [2.40, 3.74]
vcu	2.92 [2.35, 3.50]
wisc	3.18 [2.55, 3.81]
wku	3.20 [2.57, 3.82]
wl	2.34 [1.78, 2.91]
wpi	1.99 [1.46, 2.53]
RE Model	2.53 [2.40, 2.66]

Standardized Mean Difference

Funnel plot
RE model for Anchoring – Babies Born
dotted line = ES estimate
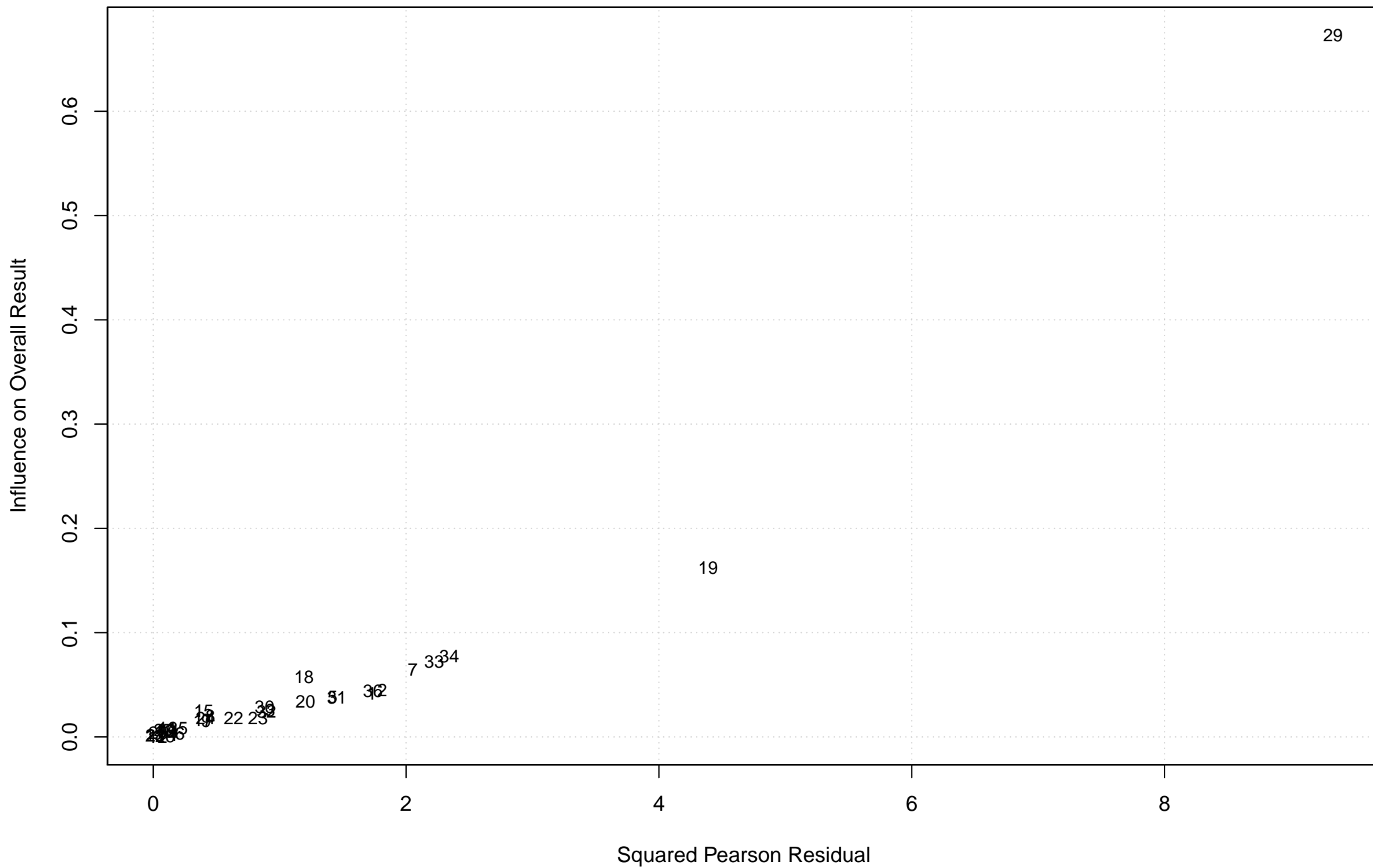
Inverse Standard Error

Observed Outcome
(Areas around ES=0 indicate pseudo CIs 90, 95, 99)

Influence plot (Baujat)
RE model for Anchoring – Babies Born

Radial plot (Galbraith)
RE model for Anchoring – Babies Born

$$z_i = \frac{y_i}{\sqrt{v_i + \tau^2}}$$

$$x_i = 1/\sqrt{v_i + \tau^2}$$
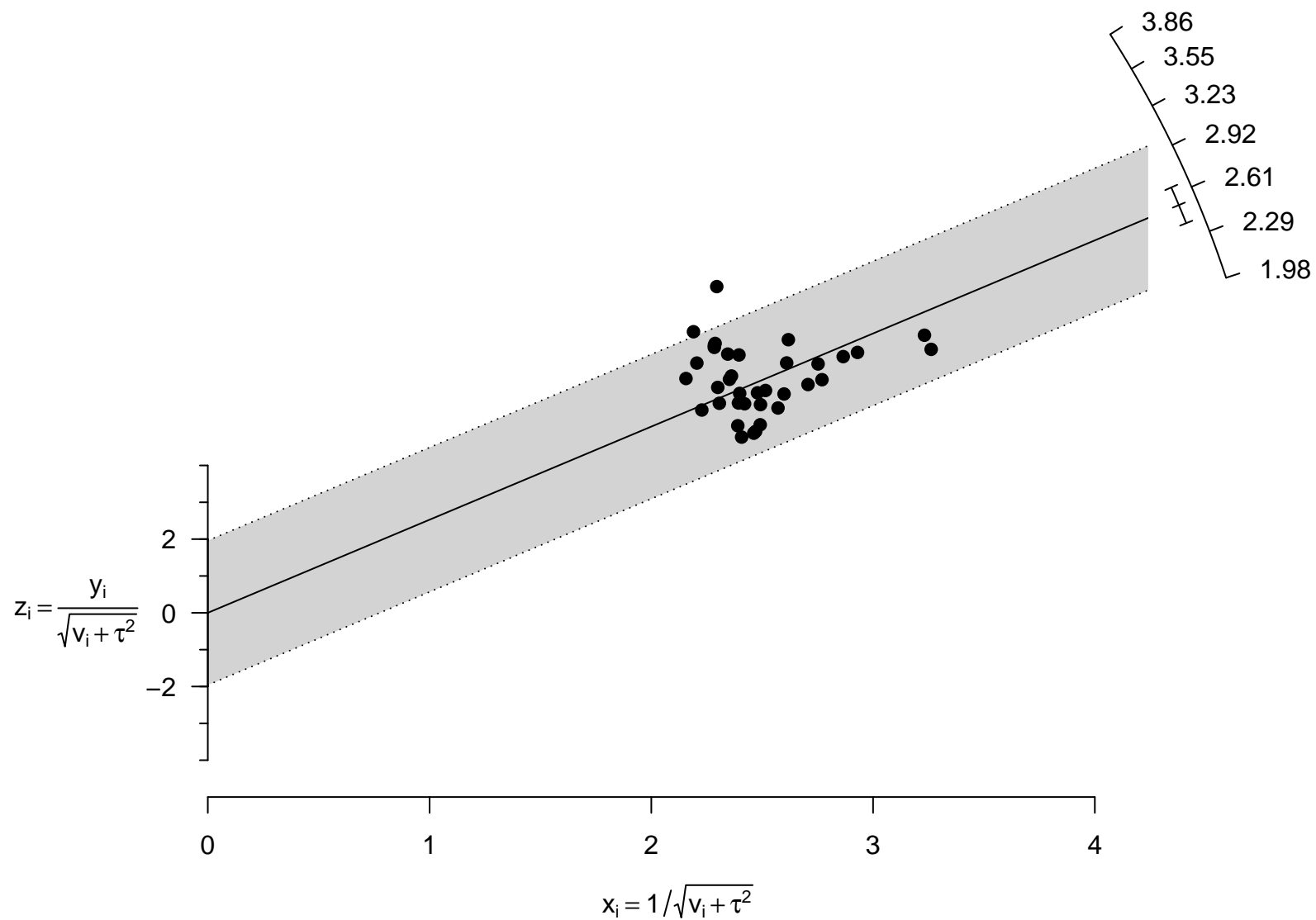
Output of Random Effects model for Retrospective gambler fallacy

```
Random-Effects Model (k = 36; tau^2 estimator: REML)

tau^2 (estimated amount of total heterogeneity): 0.0081 (SE = 0.0085)
tau (square root of estimated tau^2 value):       0.0902
I^2 (total heterogeneity / total variability):   22.85%
H^2 (total variability / sampling variability):  1.30


Test for Heterogeneity:
Q(df = 35) = 50.8321, p-val = 0.0408


Model Results:

estimate      se     zval     pval    ci.lb    ci.ub
  0.6127  0.0338  18.1484  <.0001   0.5466   0.6789   ***


---
Signif. codes:  0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ....... 0.1 ... ... 1
```
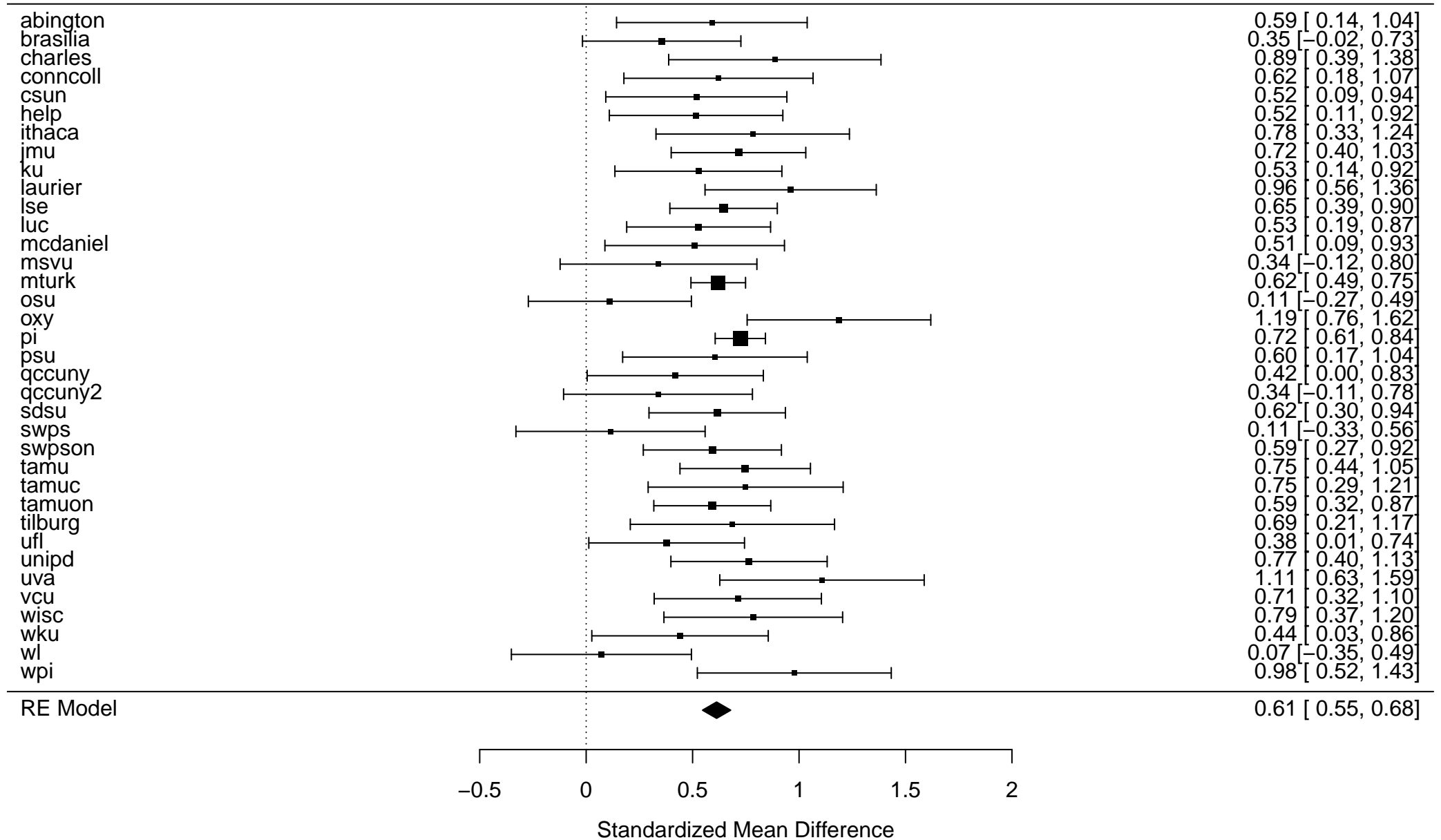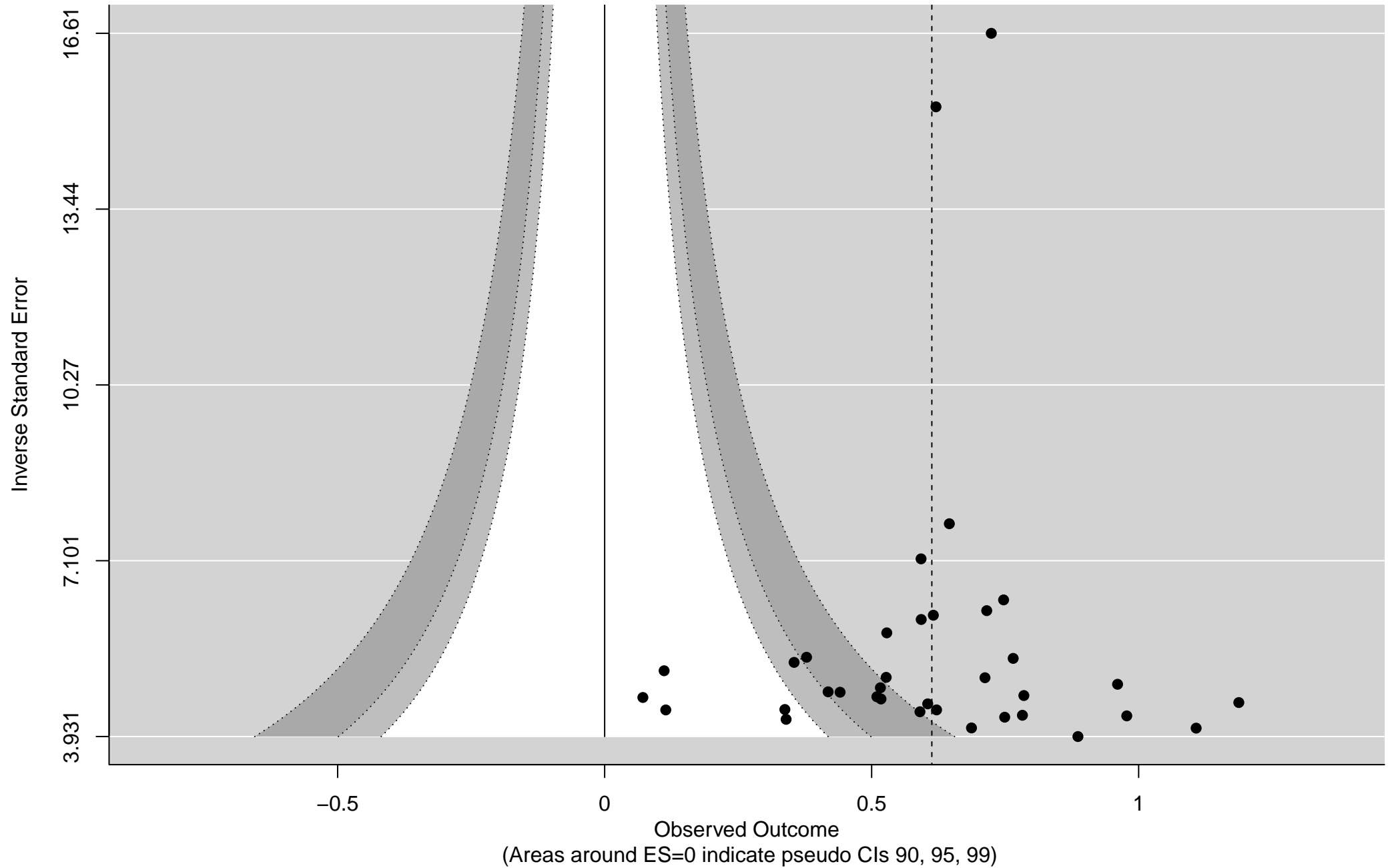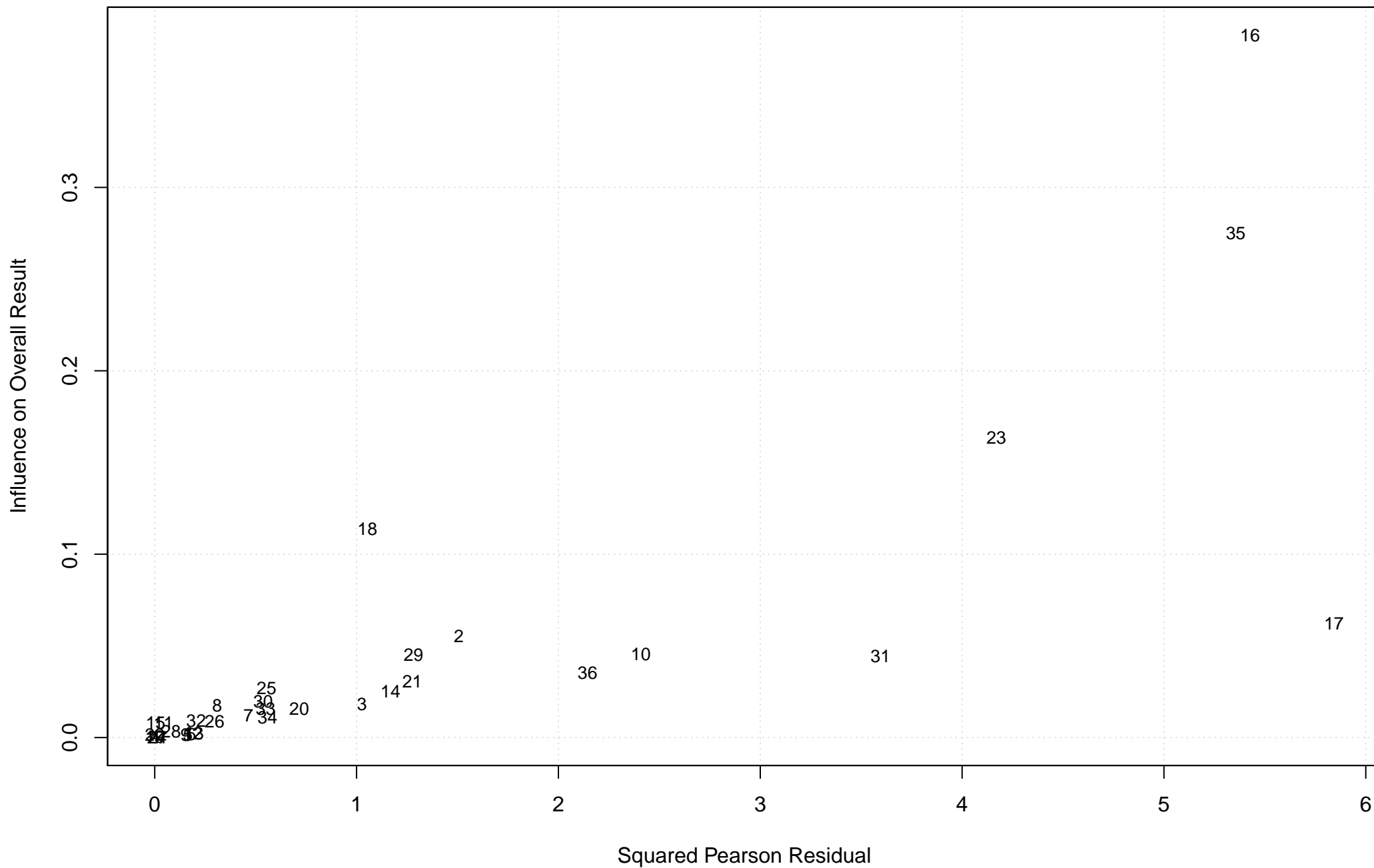
Random Effects model for Retrospective gambler fallacy

	Standardized Mean Difference
abington	0.59 [0.14, 1.04]
brasilia	0.35 [−0.02, 0.73]
charles	0.89 [0.39, 1.38]
conncoll	0.62 [0.18, 1.07]
csun	0.52 [0.09, 0.94]
help	0.52 [0.11, 0.92]
ithaca	0.78 [0.33, 1.24]
jmu	0.72 [0.40, 1.03]
ku	0.53 [0.14, 0.92]
laurier	0.96 [0.56, 1.36]
lse	0.65 [0.39, 0.90]
luc	0.53 [0.19, 0.87]
mcdaniel	0.51 [0.09, 0.93]
msvu	0.34 [−0.12, 0.80]
mturk	0.62 [0.49, 0.75]
osu	0.11 [−0.27, 0.49]
oxy	1.19 [0.76, 1.62]
pi	0.72 [0.61, 0.84]
psu	0.60 [0.17, 1.04]
qccuny	0.42 [0.00, 0.83]
qccuny2	0.34 [−0.11, 0.78]
sdsu	0.62 [0.30, 0.94]
swps	0.11 [−0.33, 0.56]
swpson	0.59 [0.27, 0.92]
tamu	0.75 [0.44, 1.05]
tamuc	0.75 [0.29, 1.21]
tamuon	0.59 [0.32, 0.87]
tilburg	0.69 [0.21, 1.17]
ufl	0.38 [0.01, 0.74]
unipd	0.77 [0.40, 1.13]
uva	1.11 [0.63, 1.59]
vcu	0.71 [0.32, 1.10]
wisc	0.79 [0.37, 1.20]
wku	0.44 [0.03, 0.86]
wl	0.07 [−0.35, 0.49]
wpi	0.98 [0.52, 1.43]
RE Model	0.61 [0.55, 0.68]

Standardized Mean Difference

Funnel plot
RE model for Retrospective gambler fallacy
dotted line = ES estimate

Inverse Standard Error

Observed Outcome
(Areas around ES=0 indicate pseudo CIs 90, 95, 99)

Influence plot (Baujat)
RE model for Retrospective gambler fallacy

Radial plot (Galbraith)
RE model for Retrospective gambler fallacy

$z_i = \dfrac{y_i}{\sqrt{v_i + \tau^2}}$

$x_i = 1/\sqrt{v_i + \tau^2}$
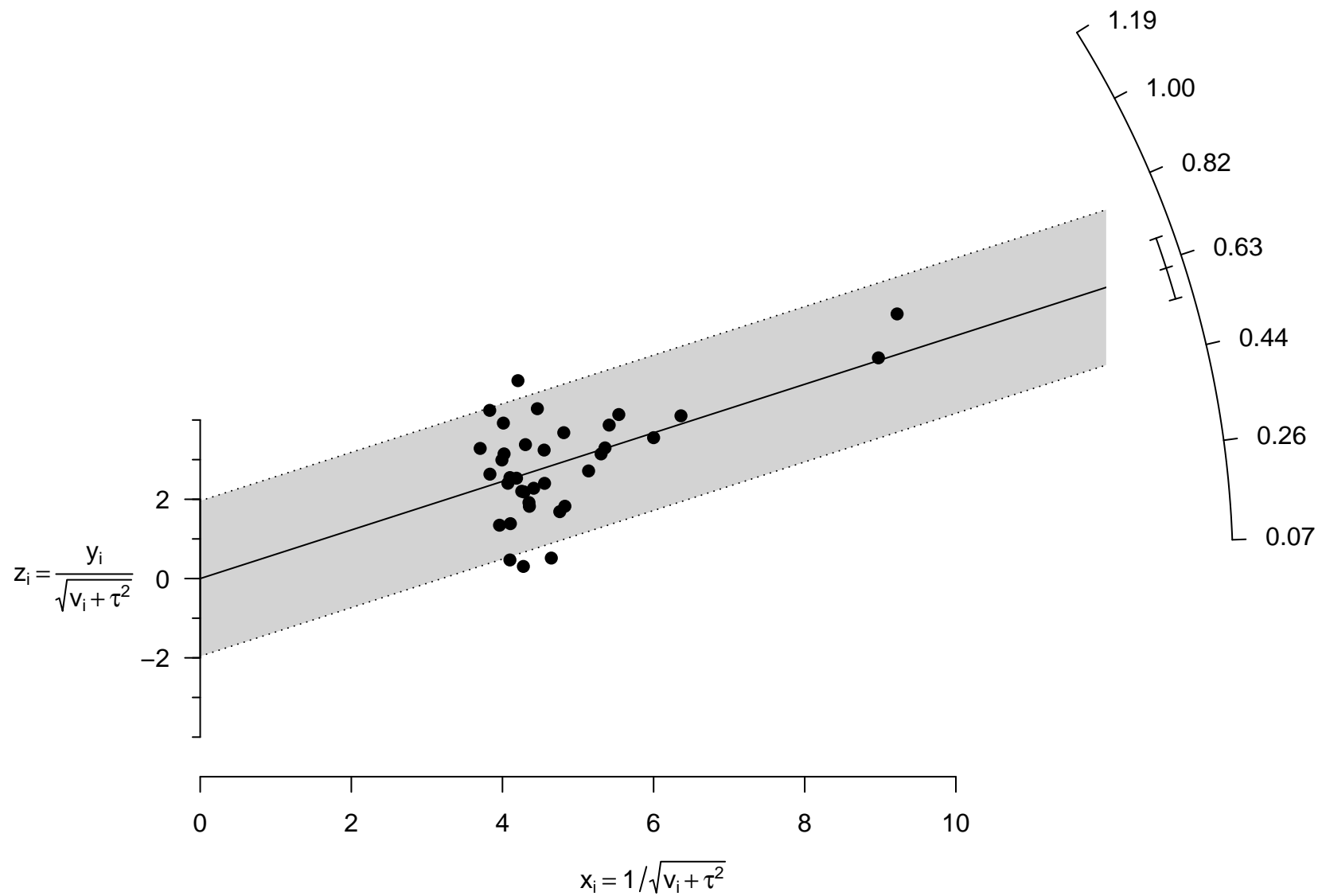
Output of Random Effects model for Low vs high category scales

```
Random-Effects Model (k = 36; tau^2 estimator: REML)

tau^2 (estimated amount of total heterogeneity): 0.0241 (SE = 0.0296)
tau (square root of estimated tau^2 value):       0.1554
I^2 (total heterogeneity / total variability):   19.20%
H^2 (total variability / sampling variability):  1.24

Test for Heterogeneity:
Q(df = 35) = 36.0217, p-val = 0.4205

Model Results:

estimate      se      zval     pval    ci.lb   ci.ub
  0.8753   0.0710   12.3279   <.0001   0.7362  1.0145   ***

---
Signif. codes:  0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ....... 0.1 ... ... 1
```
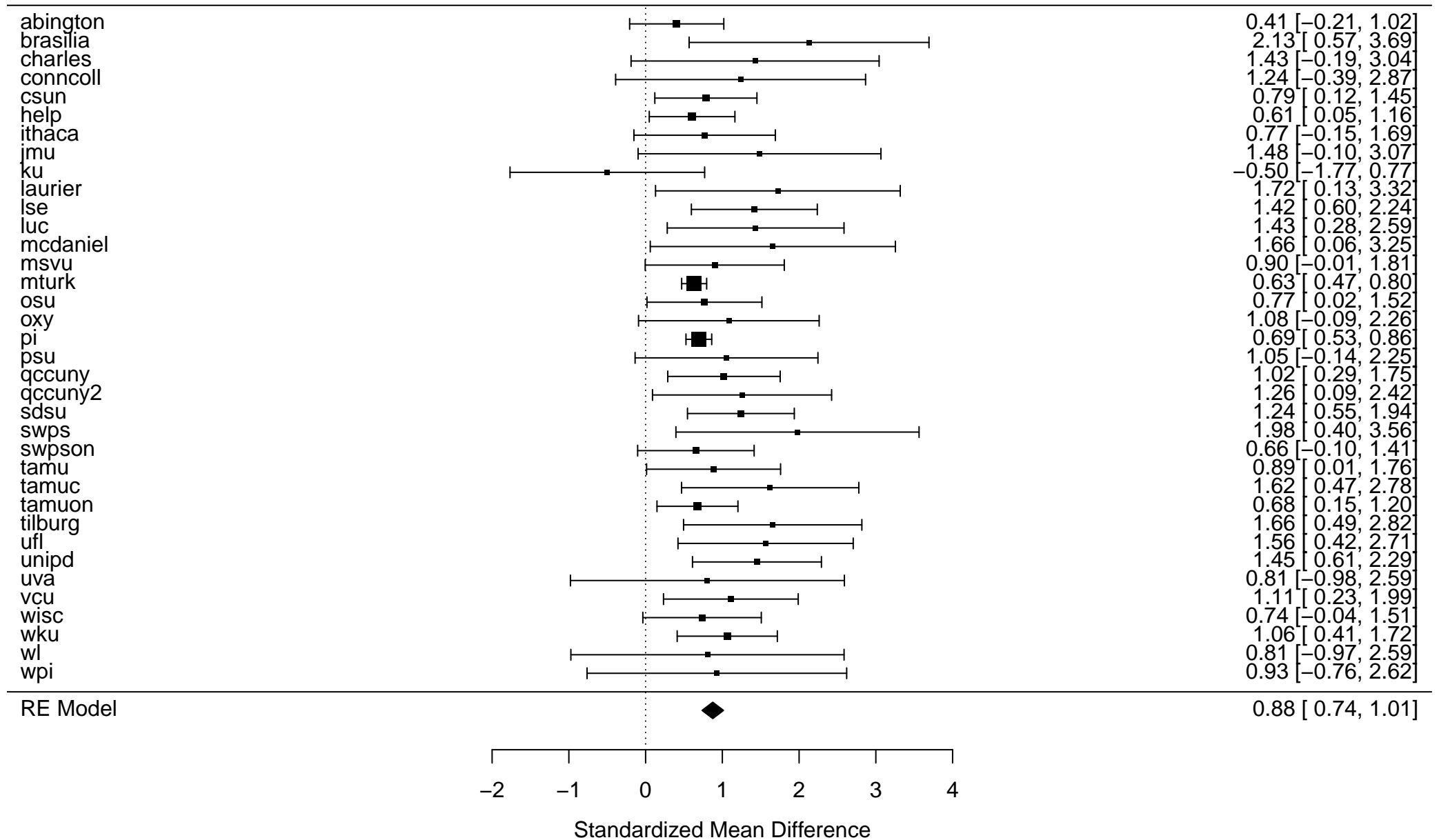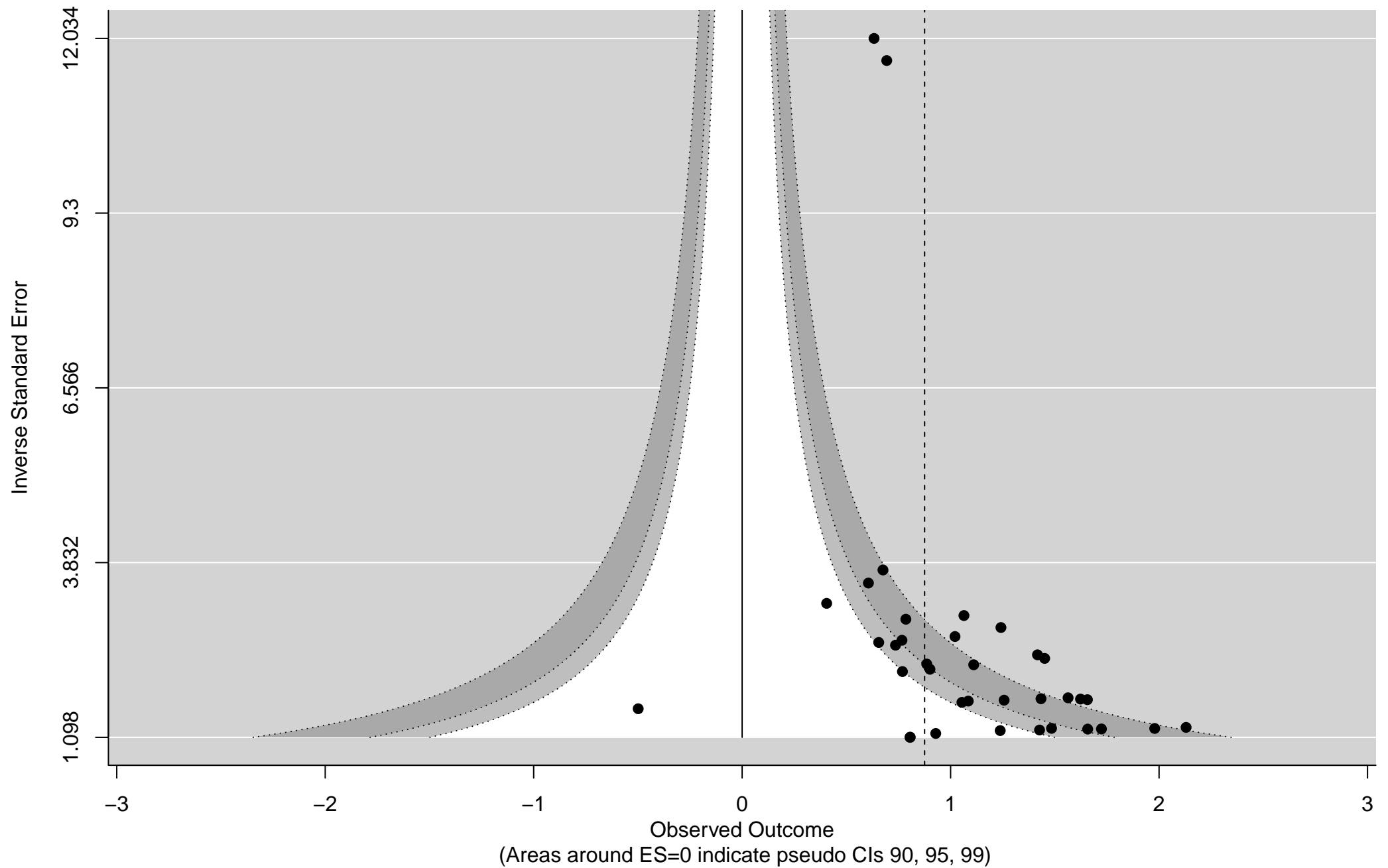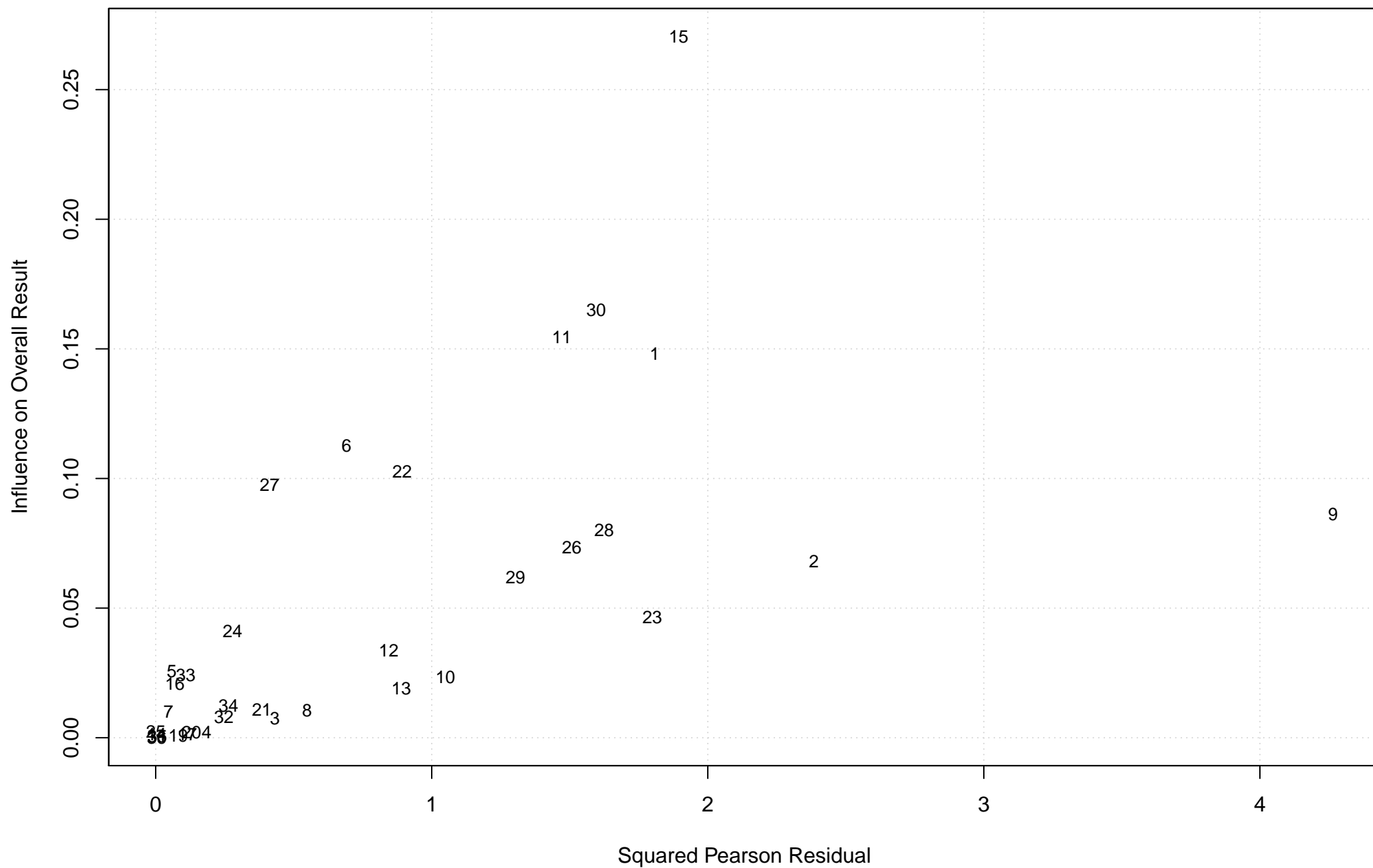
Random Effects model for Low vs high category scales

abington		0.41 [−0.21, 1.02]
brasilia		2.13 [0.57, 3.69]
charles		1.43 [−0.19, 3.04]
conncoll		1.24 [−0.39, 2.87]
csun		0.79 [0.12, 1.45]
help		0.61 [0.05, 1.16]
ithaca		0.77 [−0.15, 1.69]
jmu		1.48 [−0.10, 3.07]
ku		−0.50 [−1.77, 0.77]
laurier		1.72 [0.13, 3.32]
lse		1.42 [0.60, 2.24]
luc		1.43 [0.28, 2.59]
mcdaniel		1.66 [0.06, 3.25]
msvu		0.90 [−0.01, 1.81]
mturk		0.63 [0.47, 0.80]
osu		0.77 [0.02, 1.52]
oxy		1.08 [−0.09, 2.26]
pi		0.69 [0.53, 0.86]
psu		1.05 [−0.14, 2.25]
qccuny		1.02 [0.29, 1.75]
qccuny2		1.26 [0.09, 2.42]
sdsu		1.24 [0.55, 1.94]
swps		1.98 [0.40, 3.56]
swpson		0.66 [−0.10, 1.41]
tamu		0.89 [0.01, 1.76]
tamuc		1.62 [0.47, 2.78]
tamuon		0.68 [0.15, 1.20]
tilburg		1.66 [0.49, 2.82]
ufl		1.56 [0.42, 2.71]
unipd		1.45 [0.61, 2.29]
uva		0.81 [−0.98, 2.59]
vcu		1.11 [0.23, 1.99]
wisc		0.74 [−0.04, 1.51]
wku		1.06 [0.41, 1.72]
wl		0.81 [−0.97, 2.59]
wpi		0.93 [−0.76, 2.62]
RE Model		0.88 [0.74, 1.01]

Standardized Mean Difference

Funnel plot
RE model for Low vs high category scales
dotted line = ES estimate

Inverse Standard Error

Observed Outcome
(Areas around ES=0 indicate pseudo CIs 90, 95, 99)

Influence plot (Baujat)
RE model for Low vs high category scales

Radial plot (Galbraith)
RE model for Low vs high category scales

$z_i = \dfrac{y_i}{\sqrt{v_i + \tau^2}}$

$x_i = 1/\sqrt{v_i + \tau^2}$
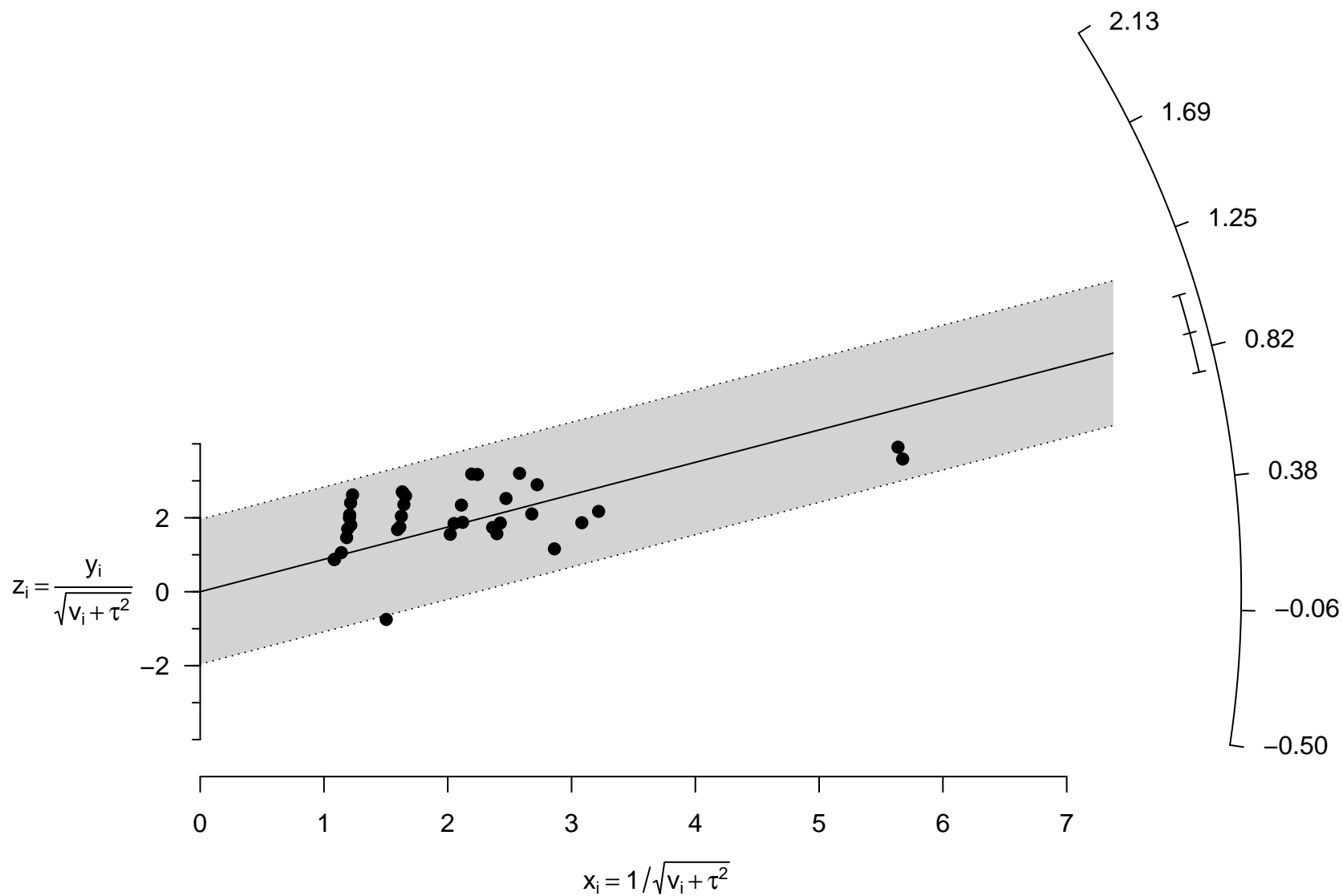
Output of Random Effects model for Norm of reciprocity

```
Random-Effects Model (k = 36; tau^2 estimator: REML)

tau^2 (estimated amount of total heterogeneity): 0.0083 (SE = 0.0108)
tau (square root of estimated tau^2 value):       0.0912
I^2 (total heterogeneity / total variability):   17.21%
H^2 (total variability / sampling variability):  1.21


Test for Heterogeneity:
Q(df = 35) = 38.8932, p-val = 0.2987


Model Results:

estimate      se     zval     pval    ci.lb    ci.ub
  0.3634   0.0387   9.3816   <.0001   0.2875   0.4394   ***


---
Signif. codes:  0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ....... 0.1 ... ... 1
```
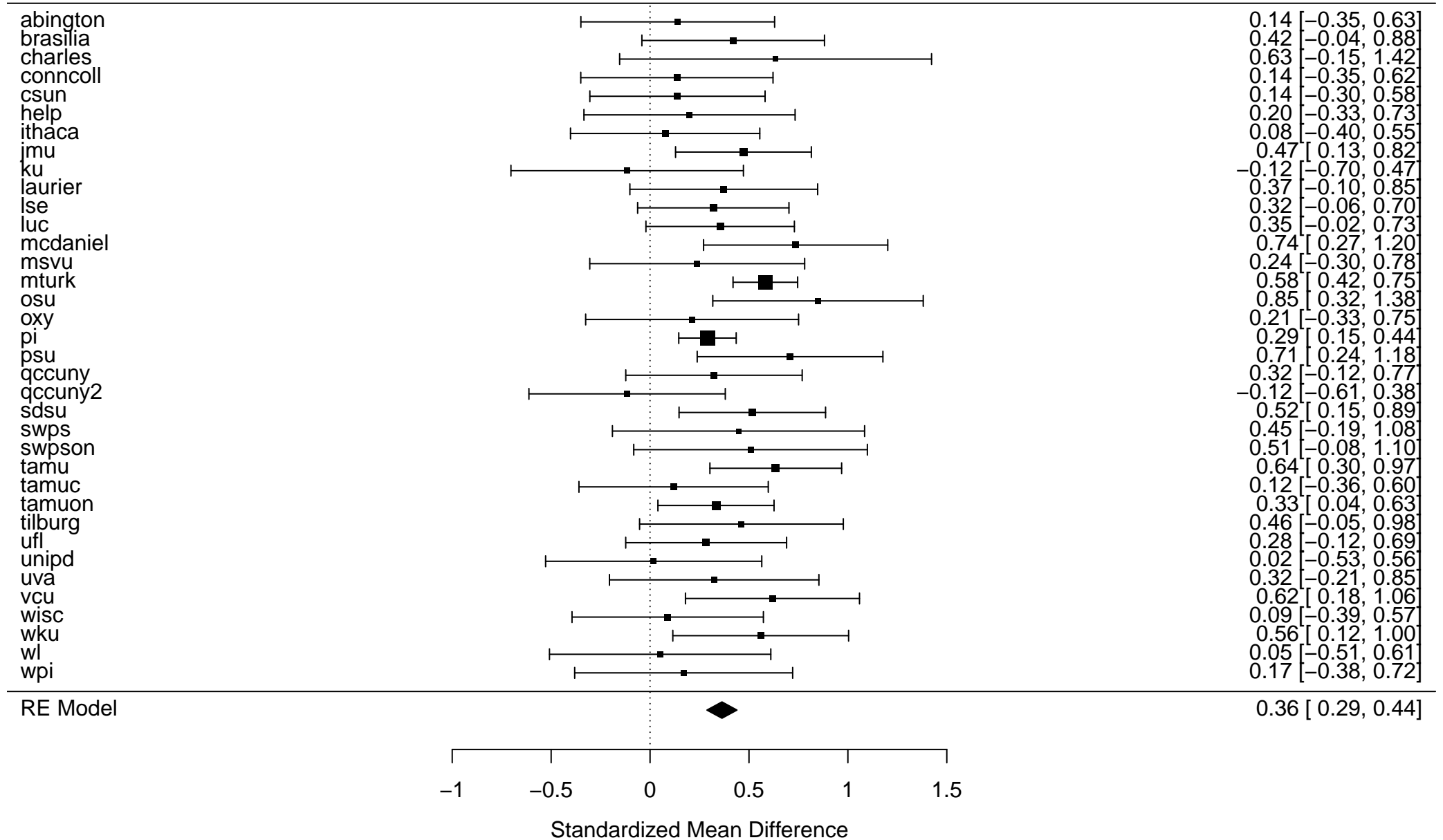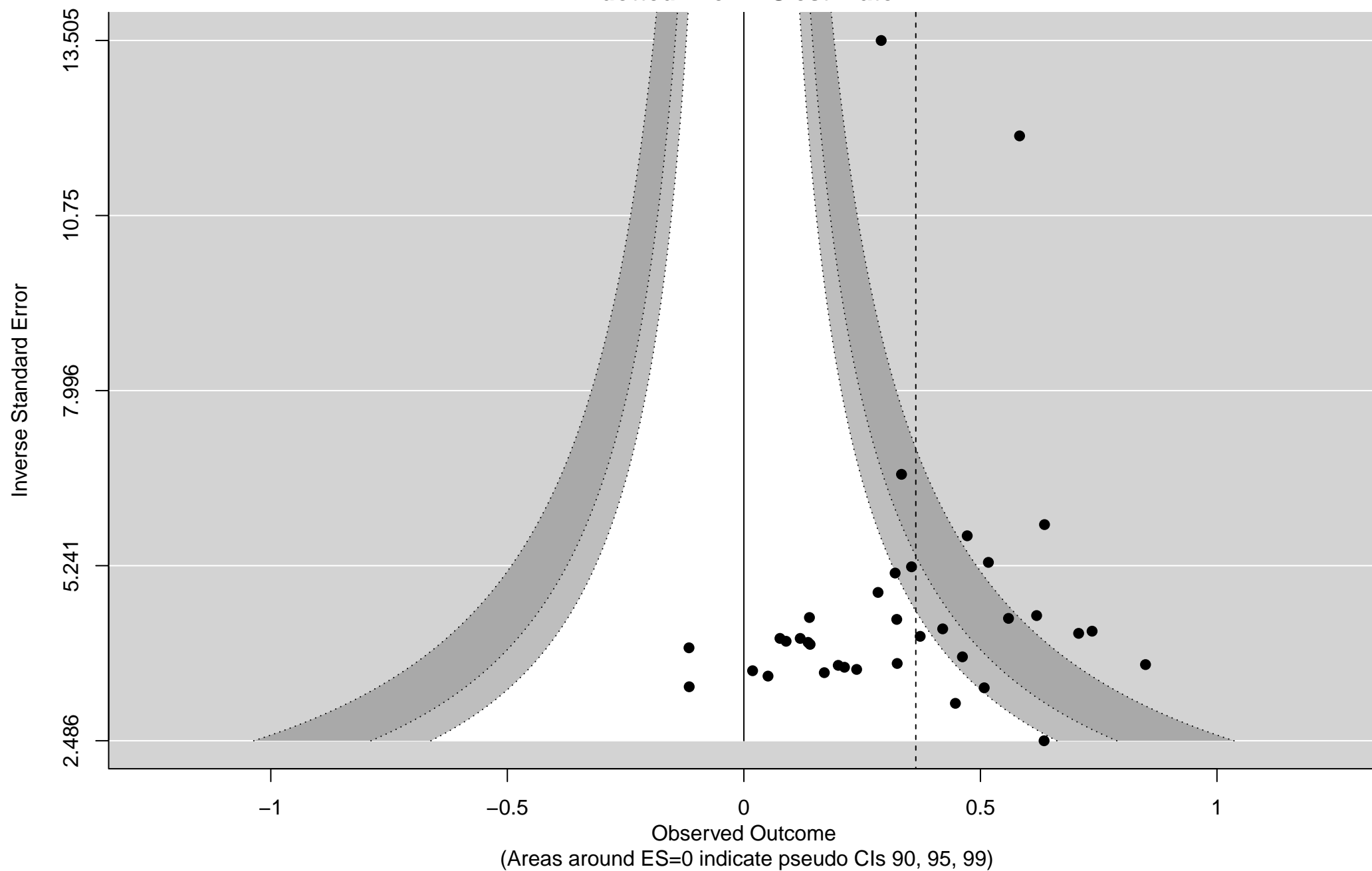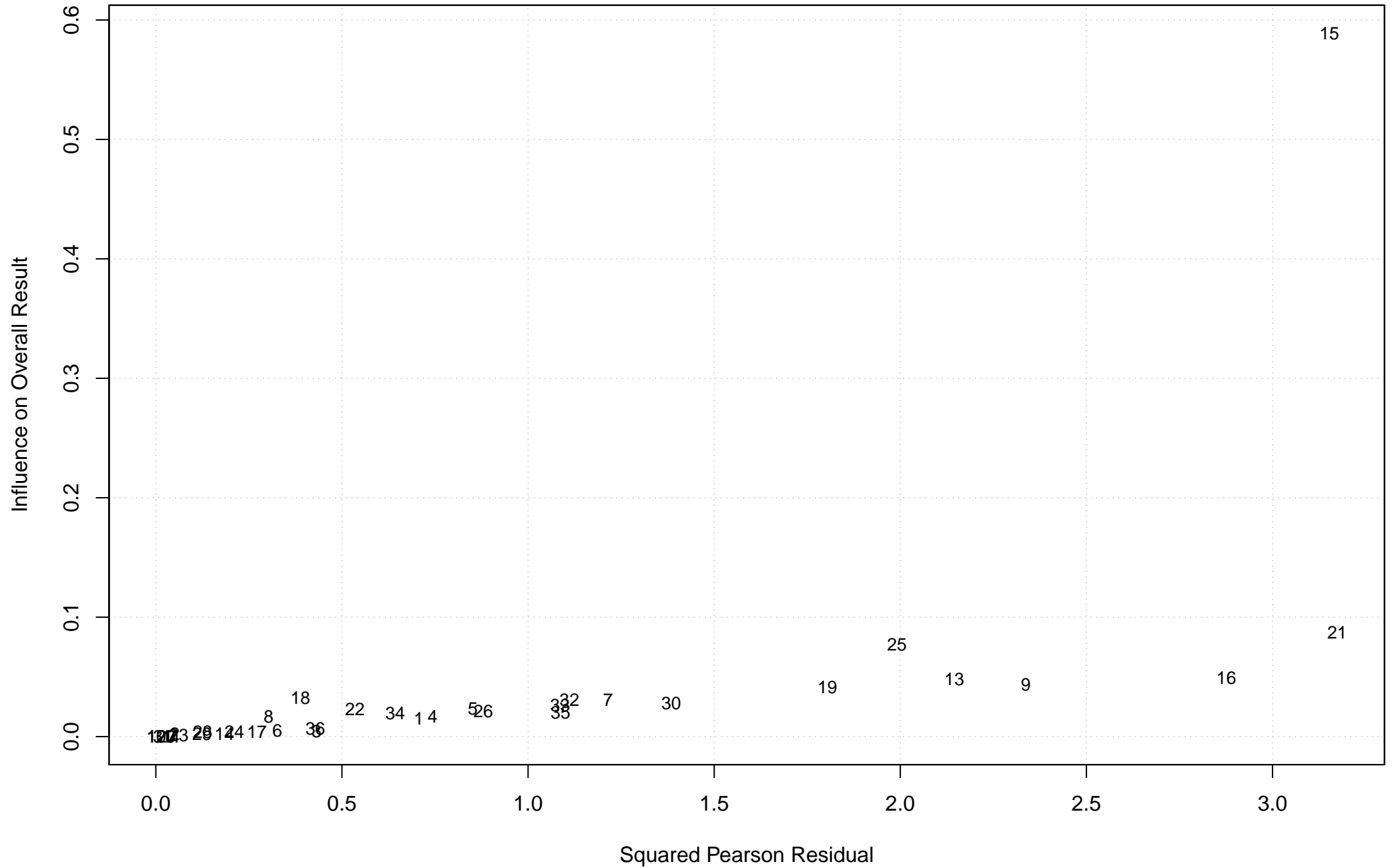
Random Effects model for Norm of reciprocity

abington		0.14 [−0.35, 0.63]
brasilia		0.42 [−0.04, 0.88]
charles		0.63 [−0.15, 1.42]
conncoll		0.14 [−0.35, 0.62]
csun		0.14 [−0.30, 0.58]
help		0.20 [−0.33, 0.73]
ithaca		0.08 [−0.40, 0.55]
jmu		0.47 [0.13, 0.82]
ku		−0.12 [−0.70, 0.47]
laurier		0.37 [−0.10, 0.85]
lse		0.32 [−0.06, 0.70]
luc		0.35 [−0.02, 0.73]
mcdaniel		0.74 [0.27, 1.20]
msvu		0.24 [−0.30, 0.78]
mturk		0.58 [0.42, 0.75]
osu		0.85 [0.32, 1.38]
oxy		0.21 [−0.33, 0.75]
pi		0.29 [0.15, 0.44]
psu		0.71 [0.24, 1.18]
qccuny		0.32 [−0.12, 0.77]
qccuny2		−0.12 [−0.61, 0.38]
sdsu		0.52 [0.15, 0.89]
swps		0.45 [−0.19, 1.08]
swpson		0.51 [−0.08, 1.10]
tamu		0.64 [0.30, 0.97]
tamuc		0.12 [−0.36, 0.60]
tamuon		0.33 [0.04, 0.63]
tilburg		0.46 [−0.05, 0.98]
ufl		0.28 [−0.12, 0.69]
unipd		0.02 [−0.53, 0.56]
uva		0.32 [−0.21, 0.85]
vcu		0.62 [0.18, 1.06]
wisc		0.09 [−0.39, 0.57]
wku		0.56 [0.12, 1.00]
wl		0.05 [−0.51, 0.61]
wpi		0.17 [−0.38, 0.72]
RE Model		0.36 [0.29, 0.44]

Standardized Mean Difference

Funnel plot
RE model for Norm of reciprocity
dotted line = ES estimate

Inverse Standard Error

Observed Outcome
(Areas around ES=0 indicate pseudo CIs 90, 95, 99)

Influence plot (Baujat)
RE model for Norm of reciprocity

Radial plot (Galbraith)
RE model for Norm of reciprocity

$z_i = \dfrac{y_i}{\sqrt{v_i + \tau^2}}$

$x_i = 1/\sqrt{v_i + \tau^2}$
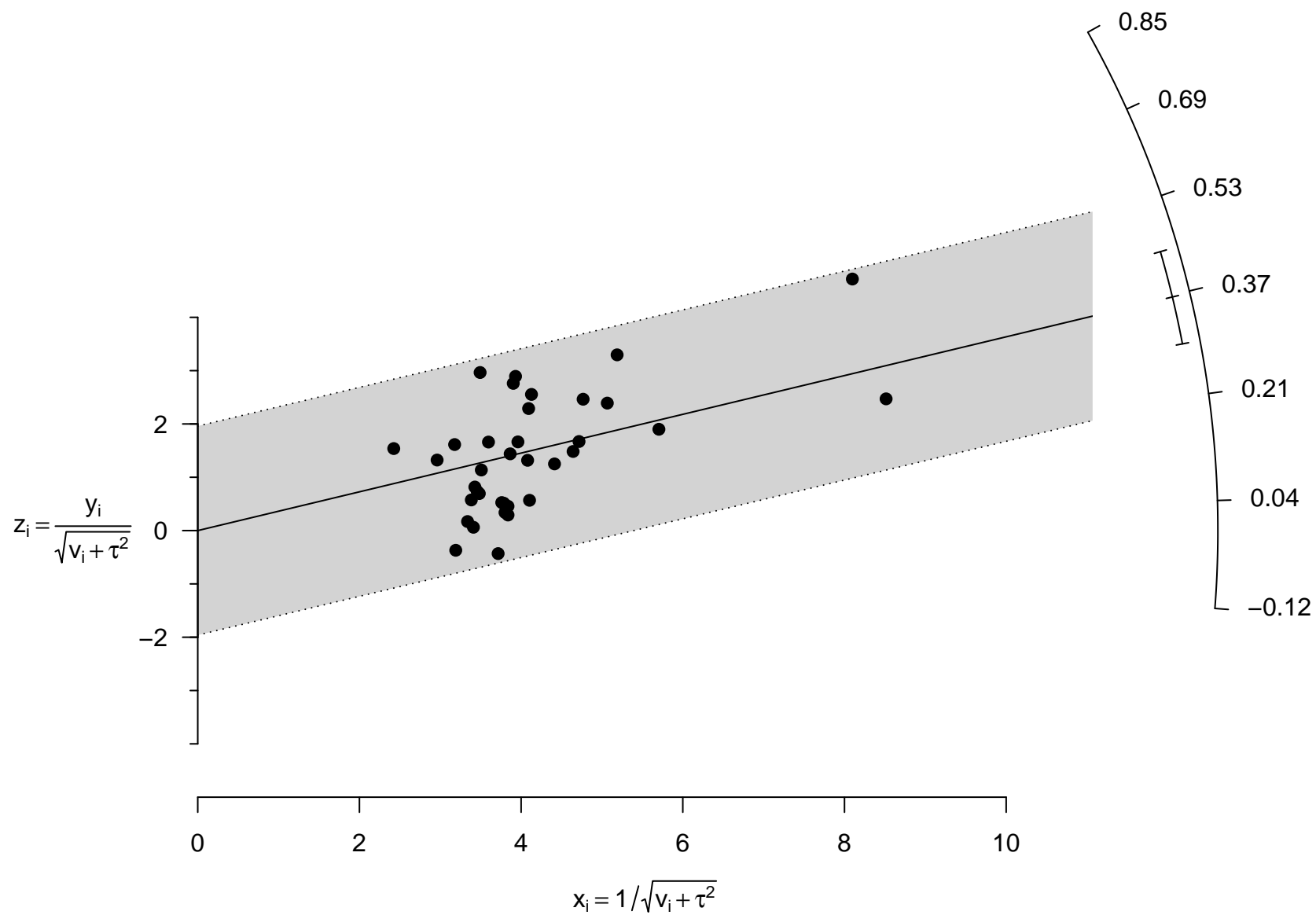
Output of Random Effects model for Allowed/Forbidden

```
Random-Effects Model (k = 36; tau^2 estimator: REML)

tau^2 (estimated amount of total heterogeneity): 0 (SE = 0.0132)
tau (square root of estimated tau^2 value):       0
I^2 (total heterogeneity / total variability):   0.00%
H^2 (total variability / sampling variability):  1.00


Test for Heterogeneity:
Q(df = 35) = 28.9606, p-val = 0.7540


Model Results:

estimate       se      zval     pval    ci.lb    ci.ub
  0.7634   0.0462   16.5154   <.0001   0.6728   0.8540   ***


---
Signif. codes:  0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ....... 0.1 ... ... 1
```
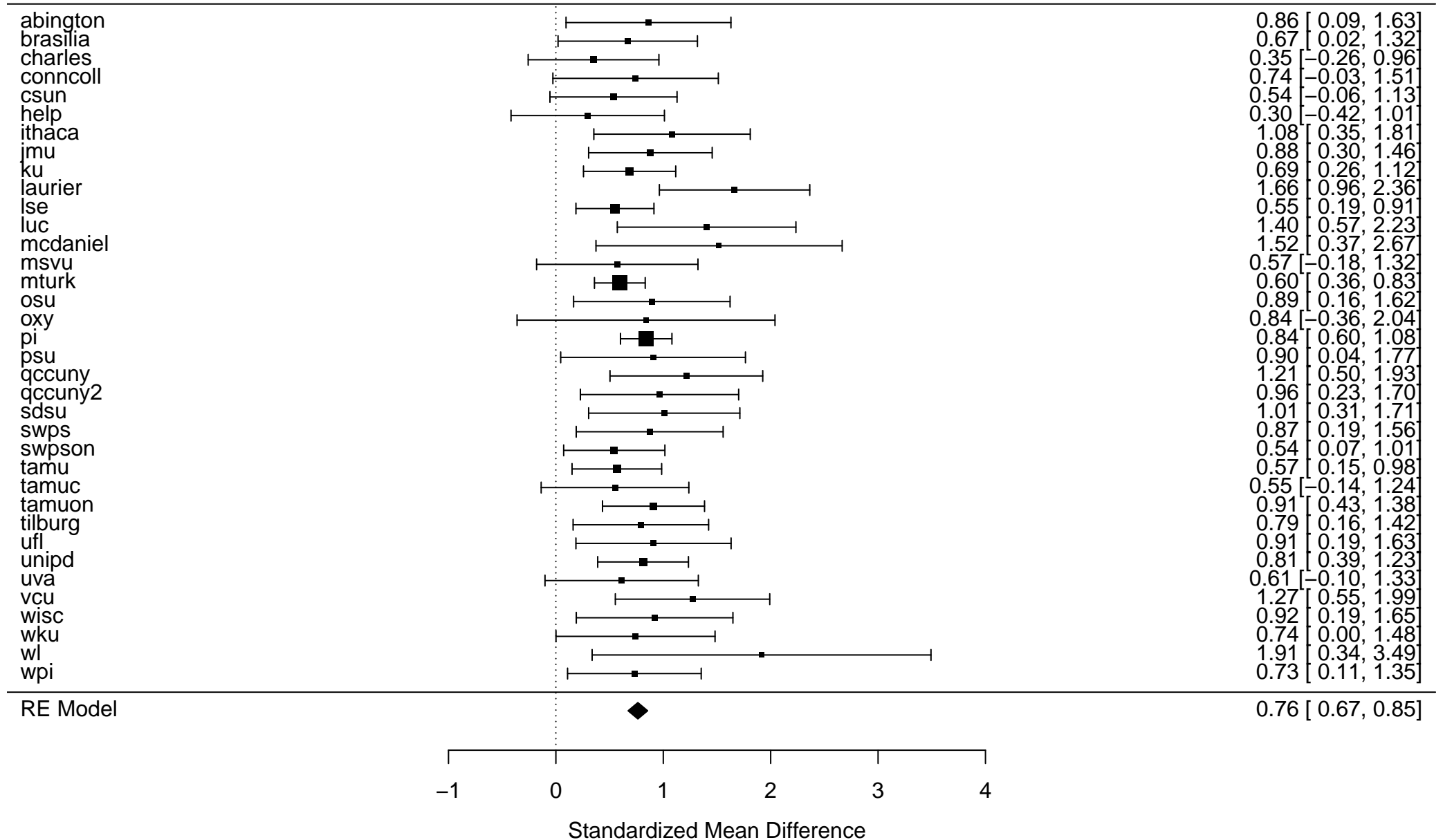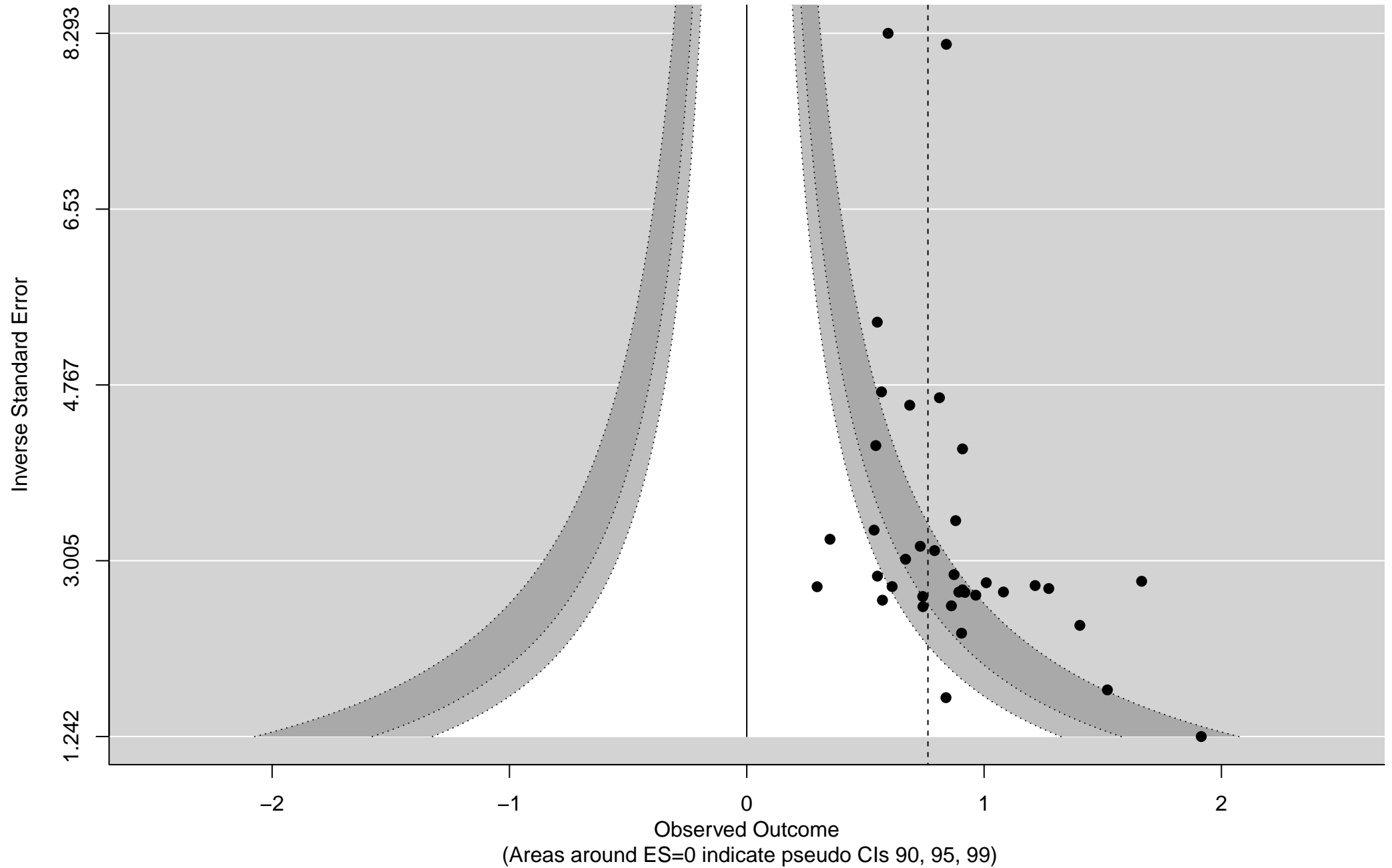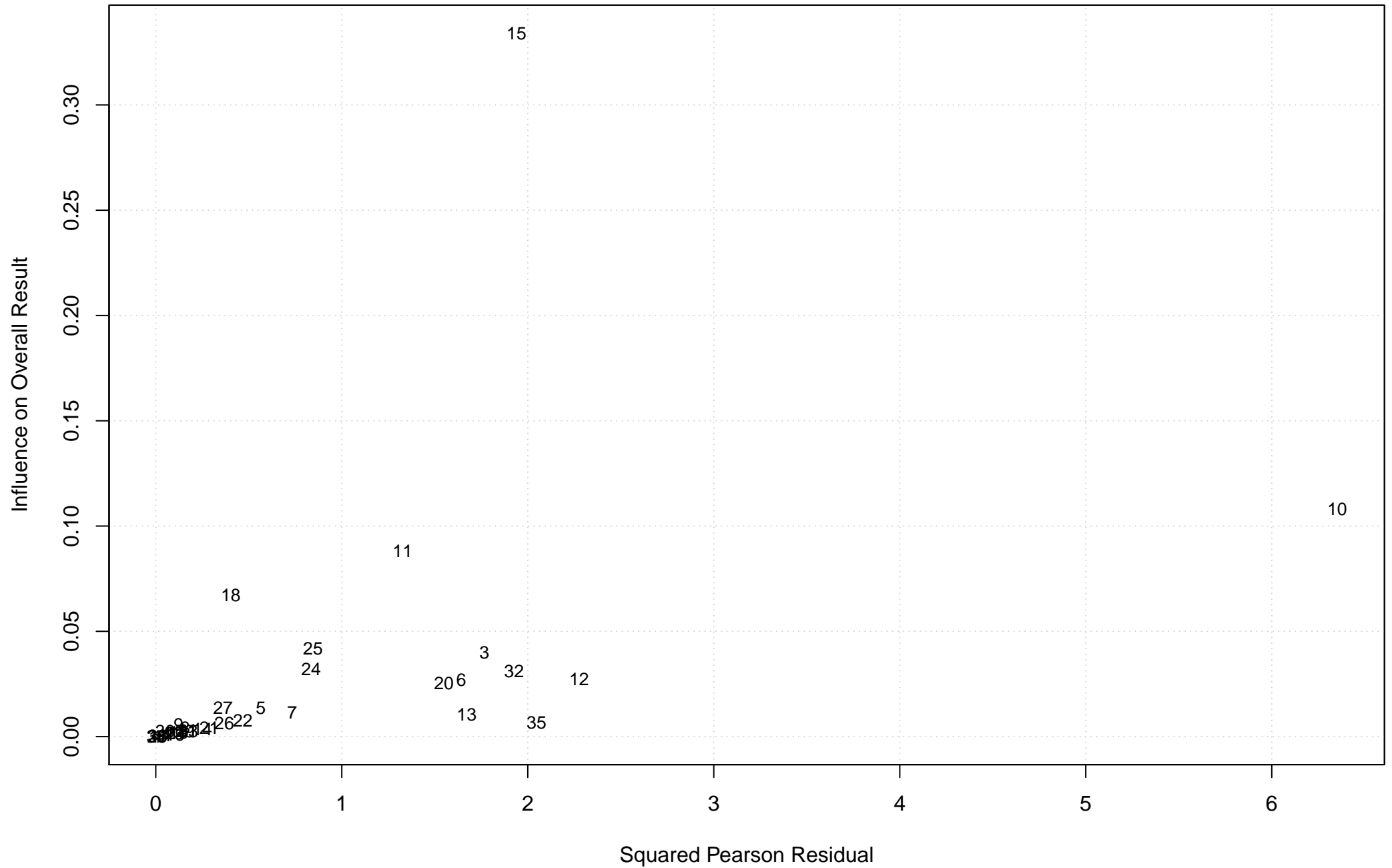
Random Effects model for Allowed/Forbidden

Study	SMD [95% CI]
abington	0.86 [0.09, 1.63]
brasilia	0.67 [0.02, 1.32]
charles	0.35 [−0.26, 0.96]
conncoll	0.74 [−0.03, 1.51]
csun	0.54 [−0.06, 1.13]
help	0.30 [−0.42, 1.01]
ithaca	1.08 [0.35, 1.81]
jmu	0.88 [0.30, 1.46]
ku	0.69 [0.26, 1.12]
laurier	1.66 [0.96, 2.36]
lse	0.55 [0.19, 0.91]
luc	1.40 [0.57, 2.23]
mcdaniel	1.52 [0.37, 2.67]
msvu	0.57 [−0.18, 1.32]
mturk	0.60 [0.36, 0.83]
osu	0.89 [0.16, 1.62]
oxy	0.84 [−0.36, 2.04]
pi	0.84 [0.60, 1.08]
psu	0.90 [0.04, 1.77]
qccuny	1.21 [0.50, 1.93]
qccuny2	0.96 [0.23, 1.70]
sdsu	1.01 [0.31, 1.71]
swps	0.87 [0.19, 1.56]
swpson	0.54 [0.07, 1.01]
tamu	0.57 [0.15, 0.98]
tamuc	0.55 [−0.14, 1.24]
tamuon	0.91 [0.43, 1.38]
tilburg	0.79 [0.16, 1.42]
ufl	0.91 [0.19, 1.63]
unipd	0.81 [0.39, 1.23]
uva	0.61 [−0.10, 1.33]
vcu	1.27 [0.55, 1.99]
wisc	0.92 [0.19, 1.65]
wku	0.74 [0.00, 1.48]
wl	1.91 [0.34, 3.49]
wpi	0.73 [0.11, 1.35]
RE Model	0.76 [0.67, 0.85]

Standardized Mean Difference

Funnel plot
RE model for Allowed/Forbidden
dotted line = ES estimate

Inverse Standard Error

Observed Outcome
(Areas around ES=0 indicate pseudo CIs 90, 95, 99)

Influence plot (Baujat)
RE model for Allowed/Forbidden

Radial plot (Galbraith)
RE model for Allowed/Forbidden

$$z_i = \frac{y_i}{\sqrt{v_i + \tau^2}}$$

$$x_i = 1/\sqrt{v_i + \tau^2}$$
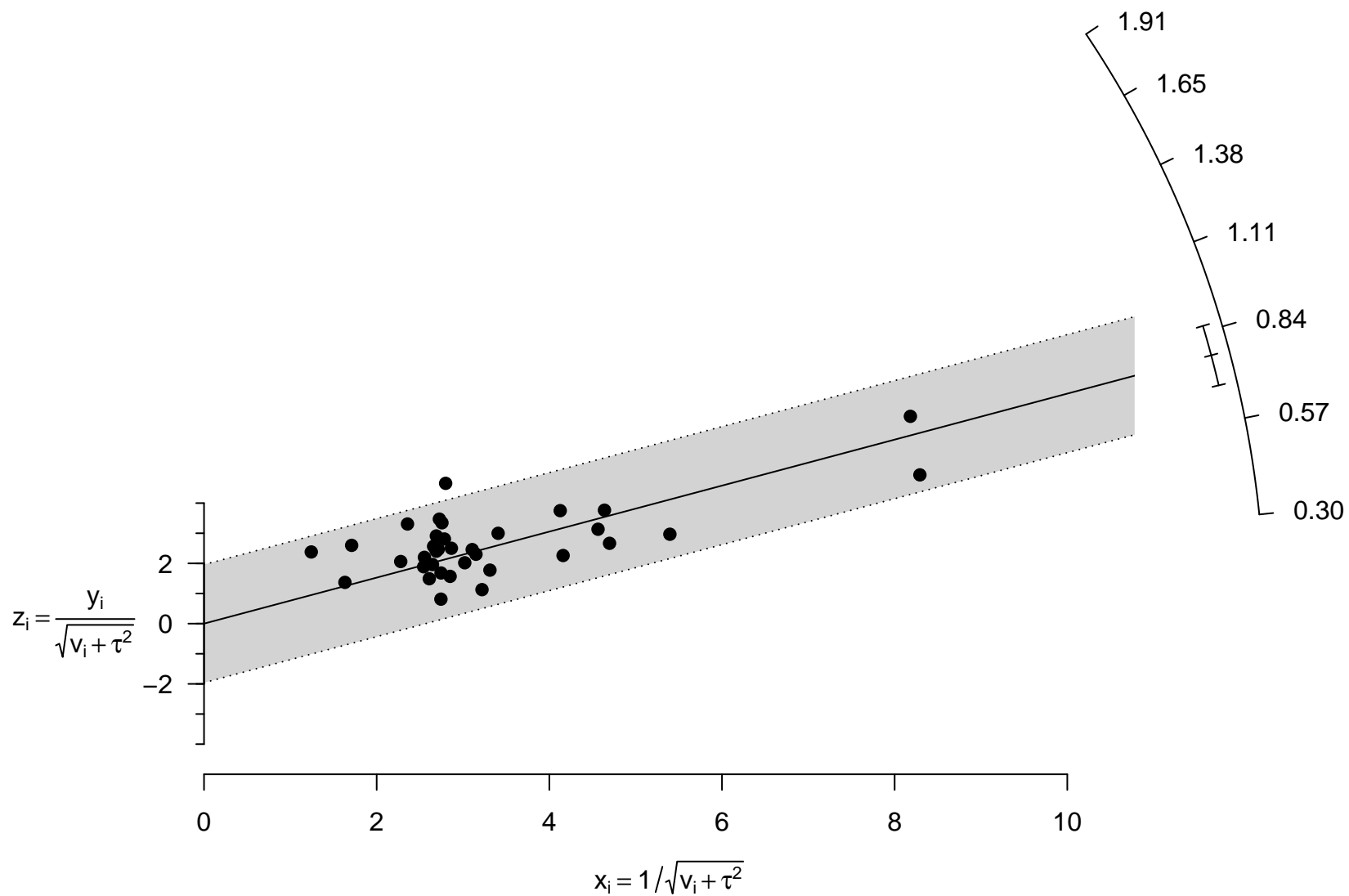
Output of Random Effects model for Quote Attribution

```
Random-Effects Model (k = 36; tau^2 estimator: REML)

tau^2 (estimated amount of total heterogeneity): 0.0268 (SE = 0.0138)
tau (square root of estimated tau^2 value):       0.1638
I^2 (total heterogeneity / total variability):   52.05%
H^2 (total variability / sampling variability):  2.09


Test for Heterogeneity:
Q(df = 35) = 67.6962, p-val = 0.0008


Model Results:

estimate      se     zval     pval    ci.lb    ci.ub
  0.3091   0.0408   7.5748   <.0001   0.2291   0.3891   ***


---
Signif. codes:  0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ....... 0.1 ... ... 1
```
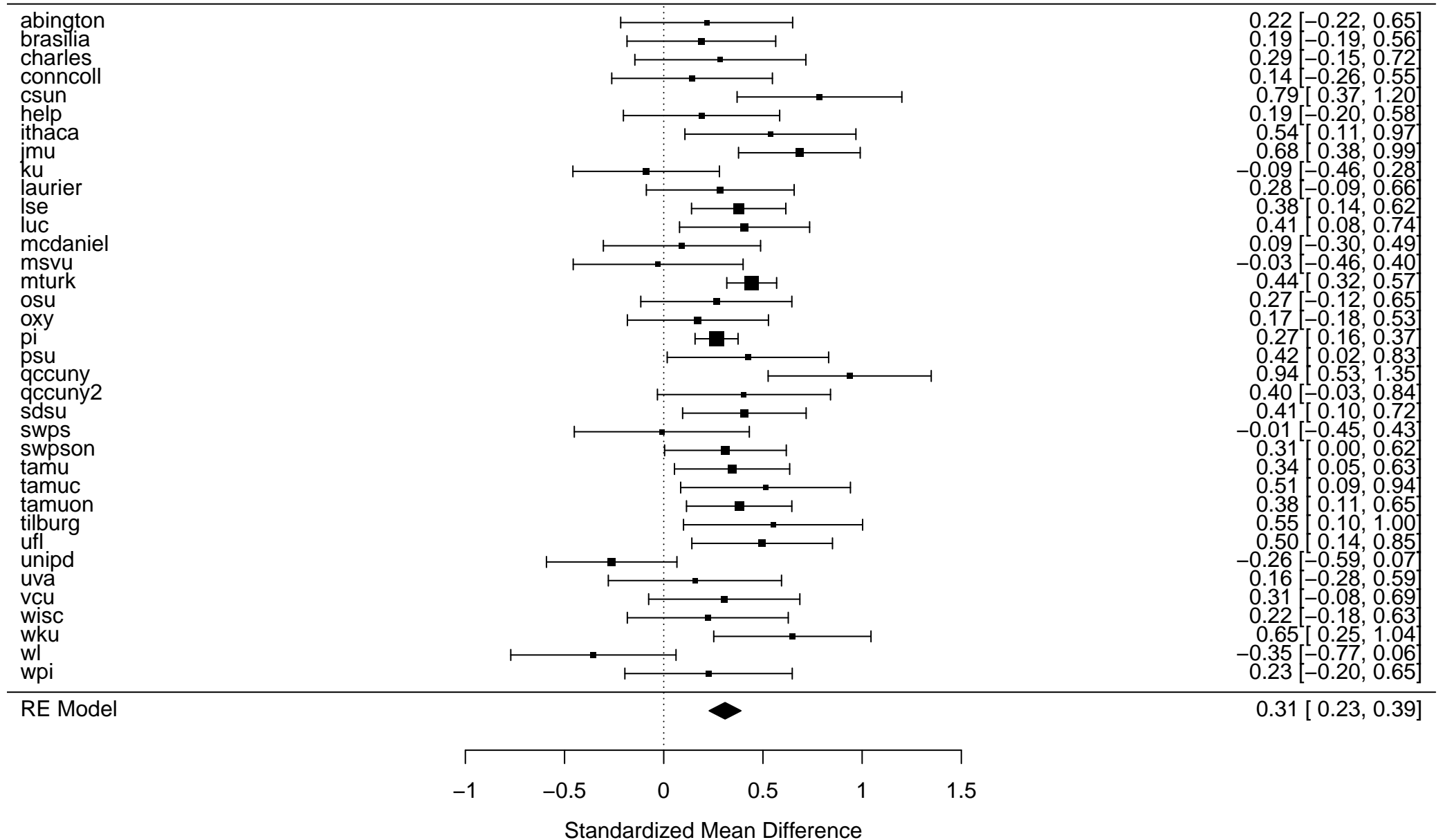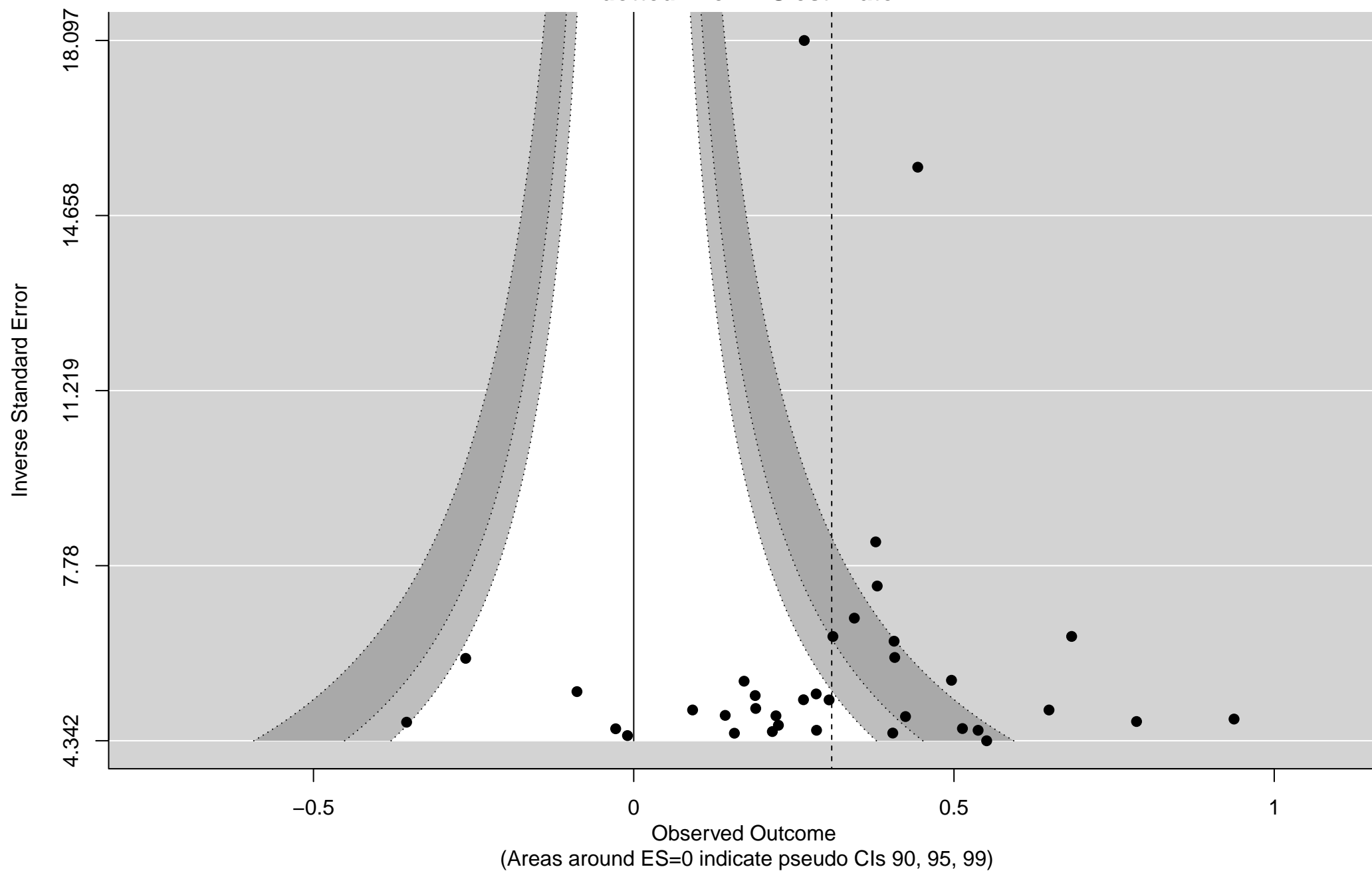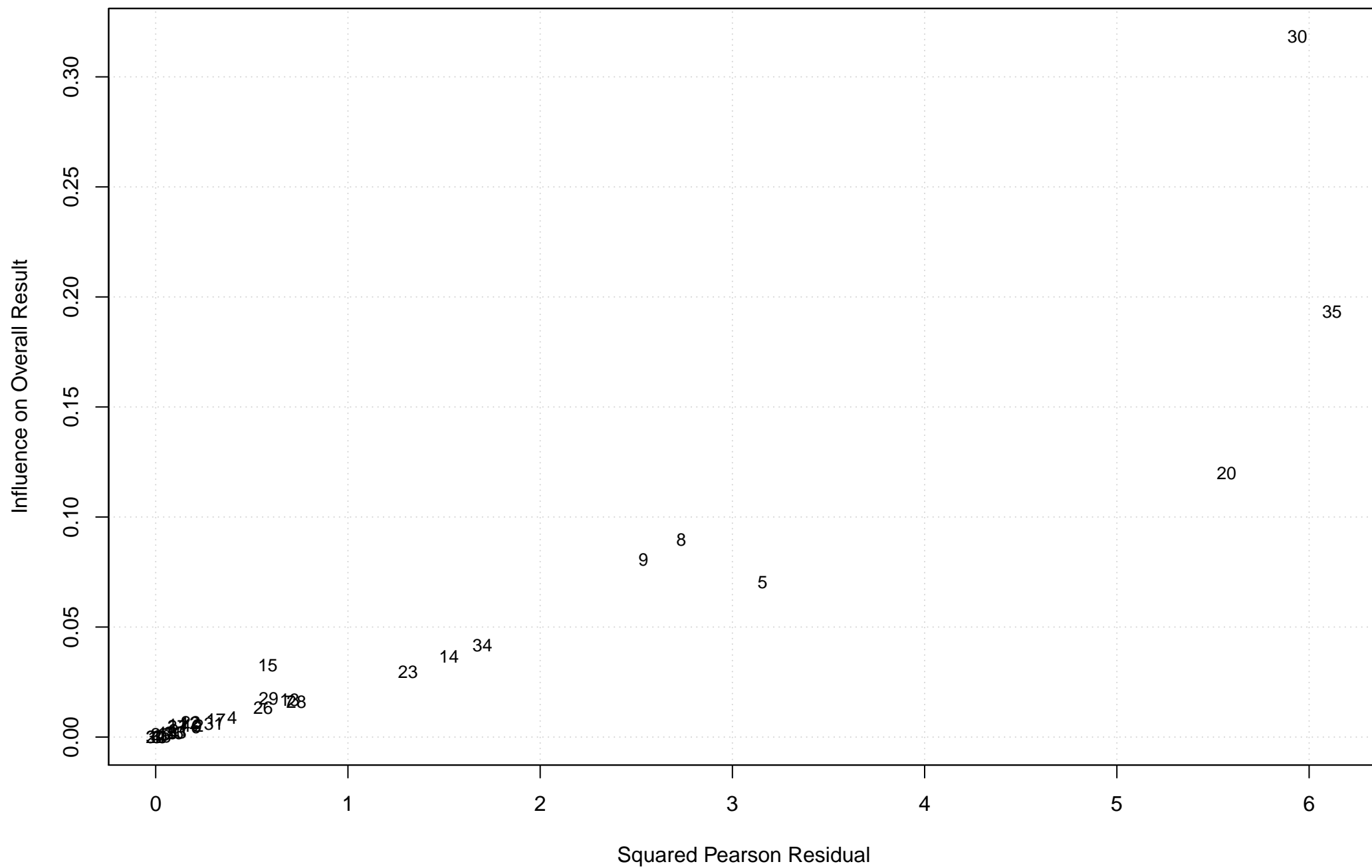
Random Effects model for Quote Attribution

abington		0.22 [−0.22, 0.65]
brasilia		0.19 [−0.19, 0.56]
charles		0.29 [−0.15, 0.72]
conncoll		0.14 [−0.26, 0.55]
csun		0.79 [0.37, 1.20]
help		0.19 [−0.20, 0.58]
ithaca		0.54 [0.11, 0.97]
jmu		0.68 [0.38, 0.99]
ku		−0.09 [−0.46, 0.28]
laurier		0.28 [−0.09, 0.66]
lse		0.38 [0.14, 0.62]
luc		0.41 [0.08, 0.74]
mcdaniel		0.09 [−0.30, 0.49]
msvu		−0.03 [−0.46, 0.40]
mturk		0.44 [0.32, 0.57]
osu		0.27 [−0.12, 0.65]
oxy		0.17 [−0.18, 0.53]
pi		0.27 [0.16, 0.37]
psu		0.42 [0.02, 0.83]
qccuny		0.94 [0.53, 1.35]
qccuny2		0.40 [−0.03, 0.84]
sdsu		0.41 [0.10, 0.72]
swps		−0.01 [−0.45, 0.43]
swpson		0.31 [0.00, 0.62]
tamu		0.34 [0.05, 0.63]
tamuc		0.51 [0.09, 0.94]
tamuon		0.38 [0.11, 0.65]
tilburg		0.55 [0.10, 1.00]
ufl		0.50 [0.14, 0.85]
unipd		−0.26 [−0.59, 0.07]
uva		0.16 [−0.28, 0.59]
vcu		0.31 [−0.08, 0.69]
wisc		0.22 [−0.18, 0.63]
wku		0.65 [0.25, 1.04]
wl		−0.35 [−0.77, 0.06]
wpi		0.23 [−0.20, 0.65]
RE Model		0.31 [0.23, 0.39]

Standardized Mean Difference

Funnel plot
RE model for Quote Attribution
dotted line = ES estimate

Inverse Standard Error

18.097
14.658
11.219
7.78
4.342

−0.5   0   0.5   1

Observed Outcome
(Areas around ES=0 indicate pseudo CIs 90, 95, 99)

Influence plot (Baujat)
RE model for Quote Attribution

Radial plot (Galbraith)
RE model for Quote Attribution

$$z_i = \frac{y_i}{\sqrt{v_i + \tau^2}}$$

$$x_i = 1/\sqrt{v_i + \tau^2}$$
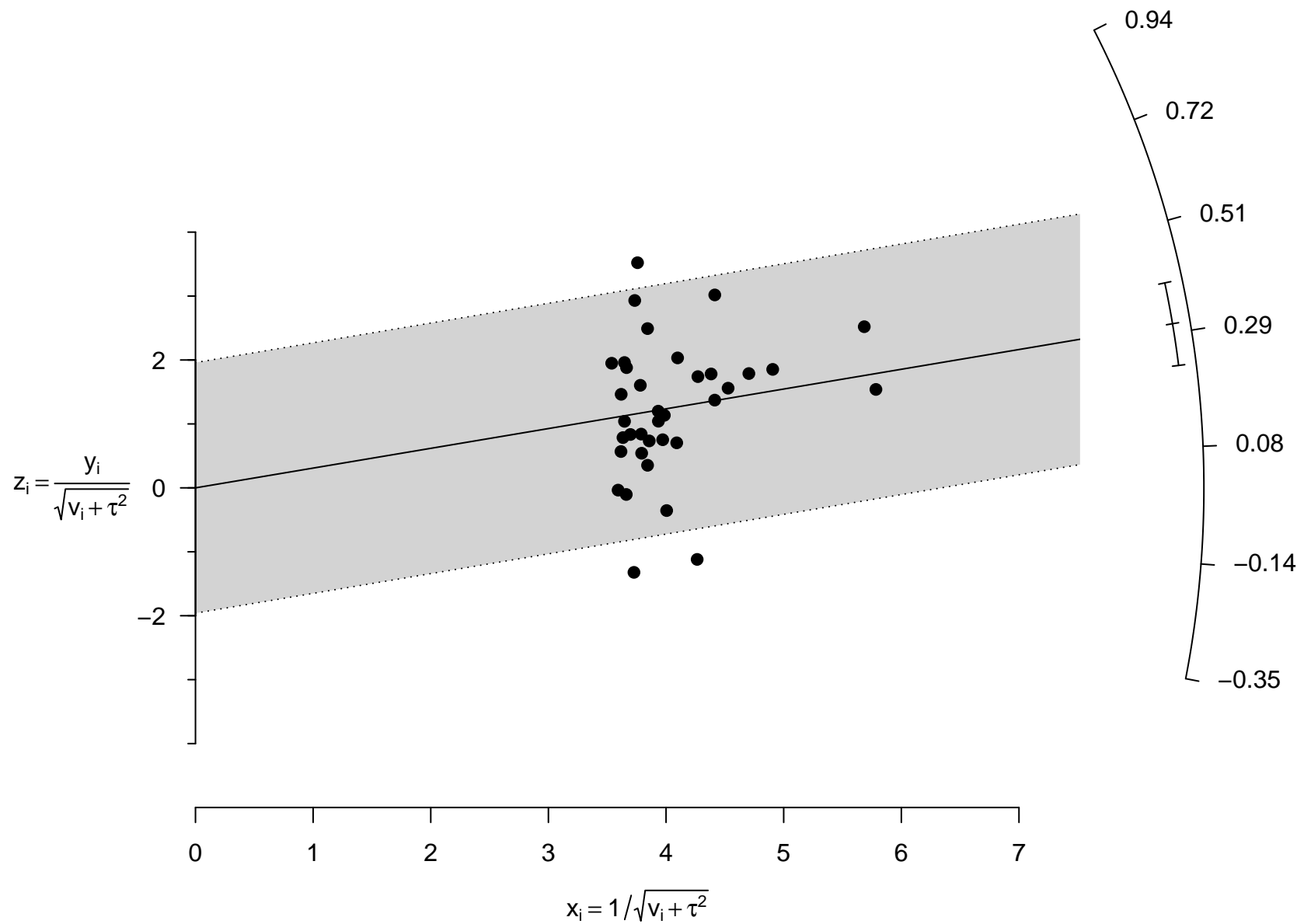
Output of Random Effects model for Flag Priming

```
Random-Effects Model (k = 36; tau^2 estimator: REML)

tau^2 (estimated amount of total heterogeneity): 0 (SE = 0.0036)
tau (square root of estimated tau^2 value):       0
I^2 (total heterogeneity / total variability):   0.00%
H^2 (total variability / sampling variability):  1.00

Test for Heterogeneity:
Q(df = 35) = 30.3332, p-val = 0.6929

Model Results:

estimate      se     zval     pval     ci.lb    ci.ub
  0.0183   0.0254   0.7186   0.4724   -0.0315   0.0681

---
Signif. codes:  0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ....... 0.1 ... ... 1
```
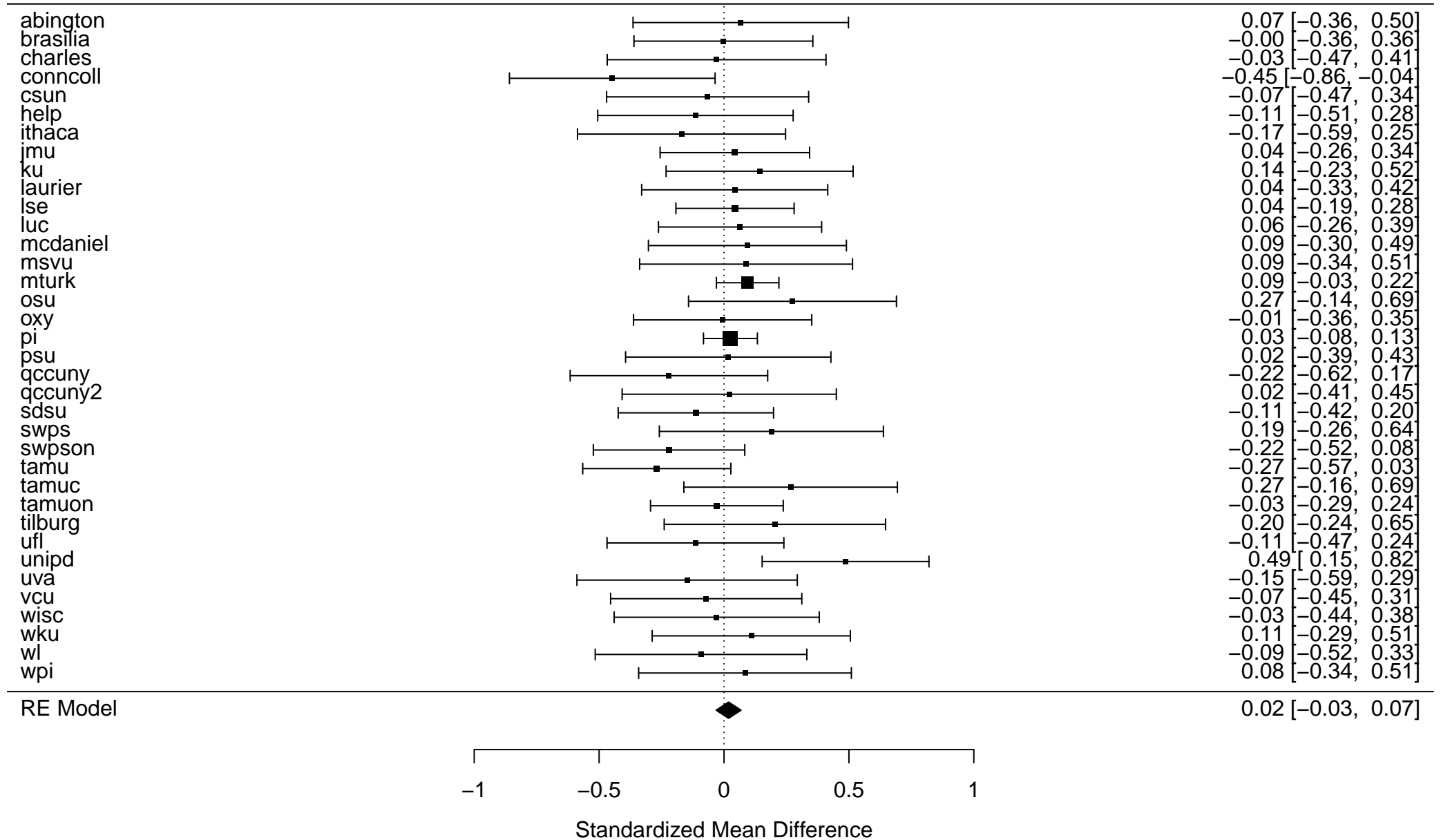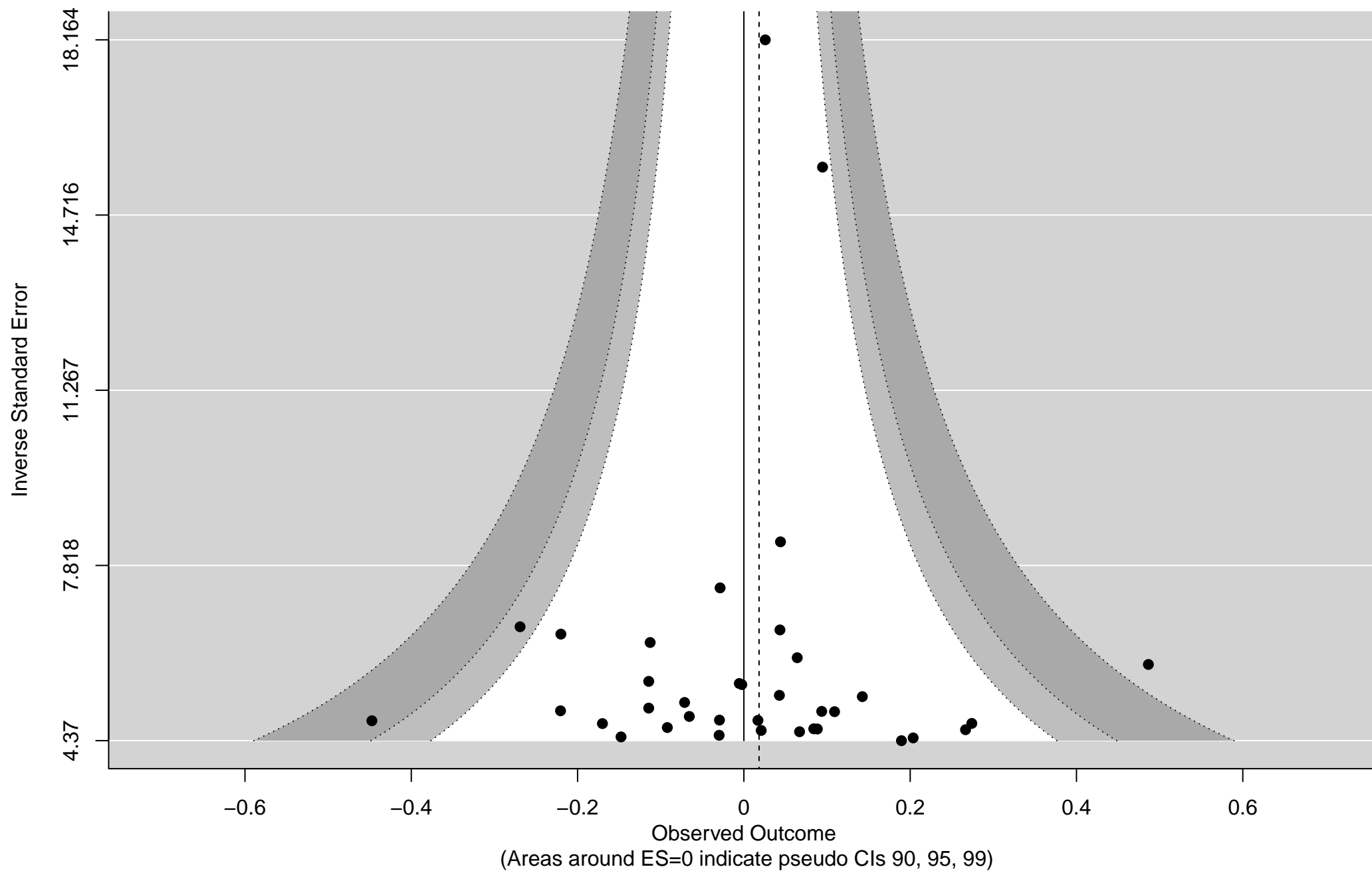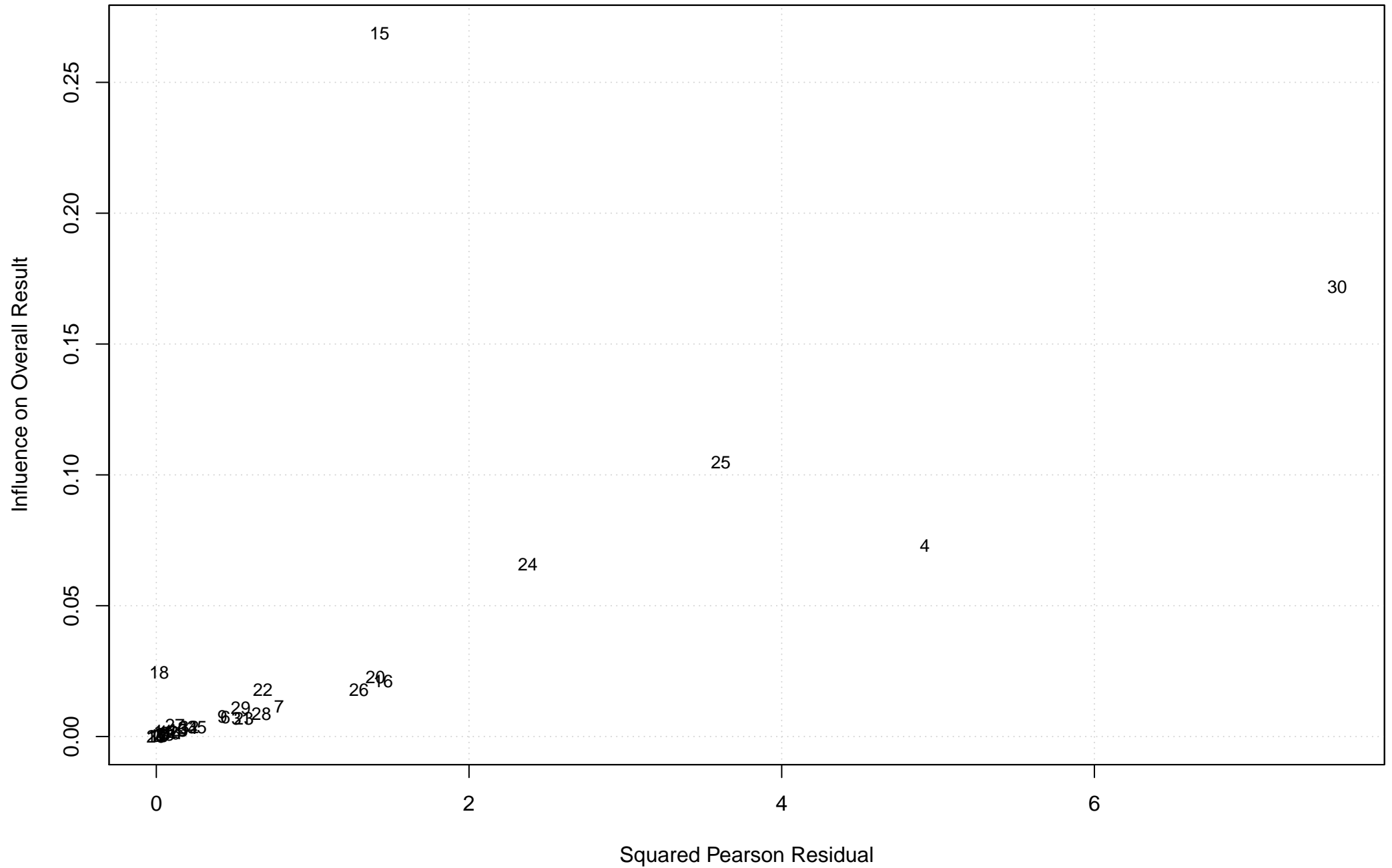
Random Effects model for Flag Priming

abington	0.07 [−0.36, 0.50]
brasilia	−0.00 [−0.36, 0.36]
charles	−0.03 [−0.47, 0.41]
conncoll	−0.45 [−0.86, −0.04]
csun	−0.07 [−0.47, 0.34]
help	−0.11 [−0.51, 0.28]
ithaca	−0.17 [−0.59, 0.25]
jmu	0.04 [−0.26, 0.34]
ku	0.14 [−0.23, 0.52]
laurier	0.04 [−0.33, 0.42]
lse	0.04 [−0.19, 0.28]
luc	0.06 [−0.26, 0.39]
mcdaniel	0.09 [−0.30, 0.49]
msvu	0.09 [−0.34, 0.51]
mturk	0.09 [−0.03, 0.22]
osu	0.27 [−0.14, 0.69]
oxy	−0.01 [−0.36, 0.35]
pi	0.03 [−0.08, 0.13]
psu	0.02 [−0.39, 0.43]
qccuny	−0.22 [−0.62, 0.17]
qccuny2	0.02 [−0.41, 0.45]
sdsu	−0.11 [−0.42, 0.20]
swps	0.19 [−0.26, 0.64]
swpson	−0.22 [−0.52, 0.08]
tamu	−0.27 [−0.57, 0.03]
tamuc	0.27 [−0.16, 0.69]
tamuon	−0.03 [−0.29, 0.24]
tilburg	0.20 [−0.24, 0.65]
ufl	−0.11 [−0.47, 0.24]
unipd	0.49 [0.15, 0.82]
uva	−0.15 [−0.59, 0.29]
vcu	−0.07 [−0.45, 0.31]
wisc	−0.03 [−0.44, 0.38]
wku	0.11 [−0.29, 0.51]
wl	−0.09 [−0.52, 0.33]
wpi	0.08 [−0.34, 0.51]
RE Model	0.02 [−0.03, 0.07]

Standardized Mean Difference

Funnel plot
RE model for Flag Priming
dotted line = ES estimate

Inverse Standard Error

Observed Outcome
(Areas around ES=0 indicate pseudo CIs 90, 95, 99)

Influence plot (Baujat)
RE model for Flag Priming

Radial plot (Galbraith)
RE model for Flag Priming

$$z_i = \frac{y_i}{\sqrt{v_i + \tau^2}}$$

$$x_i = 1/\sqrt{v_i + \tau^2}$$

ManyLabs1: https://osf.io/wx7ck/
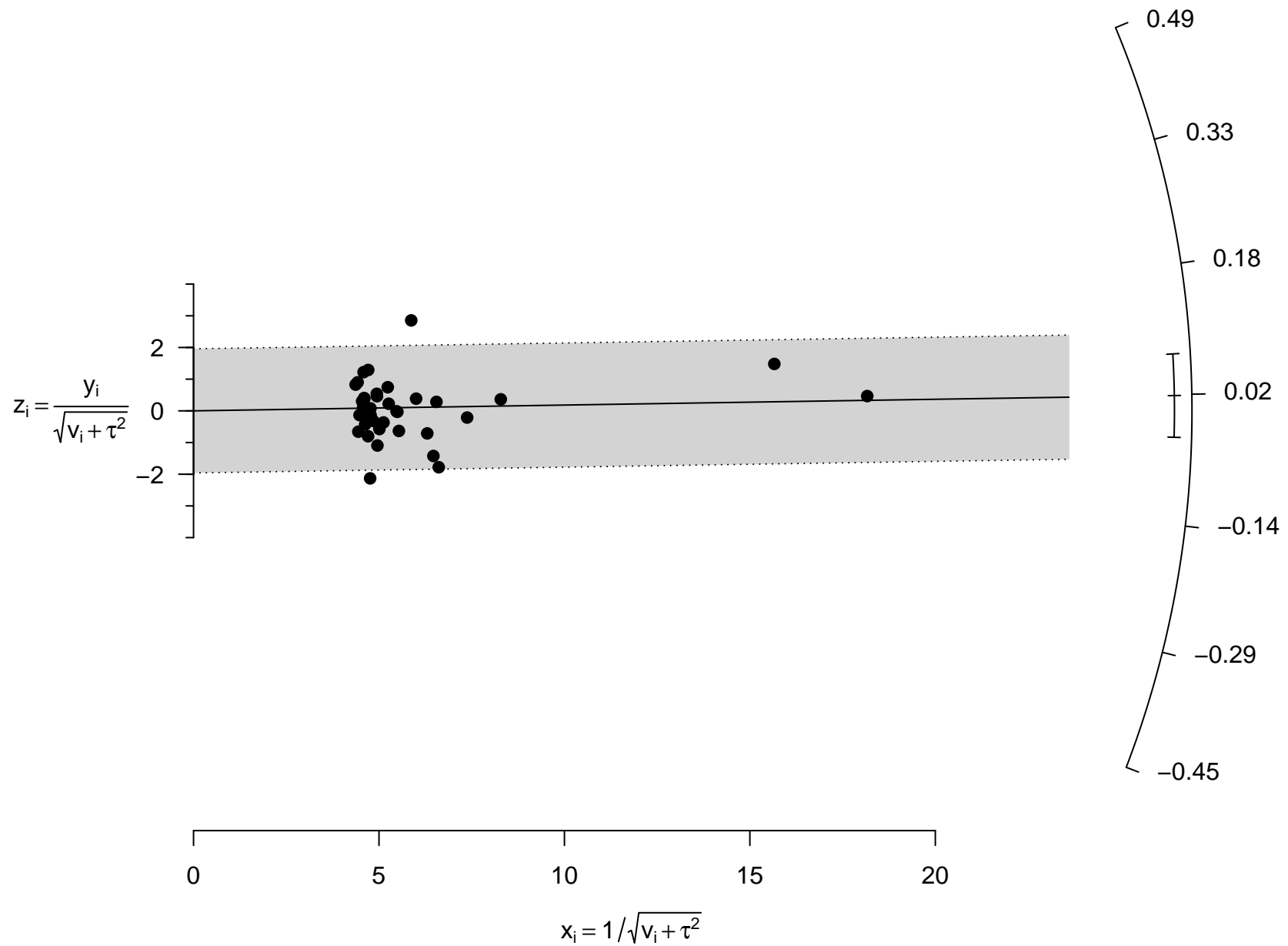
Output of Random Effects model for Currency Priming

```
Random-Effects Model (k = 36; tau^2 estimator: REML)

tau^2 (estimated amount of total heterogeneity): 0 (SE = 0.0036)
tau (square root of estimated tau^2 value):       0
I^2 (total heterogeneity / total variability):   0.00%
H^2 (total variability / sampling variability):  1.00


Test for Heterogeneity:
Q(df = 35) = 28.4128, p-val = 0.7769


Model Results:

estimate      se      zval     pval     ci.lb    ci.ub
 -0.0175   0.0252   -0.6925   0.4886   -0.0670   0.0320


---
Signif. codes:  0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ....... 0.1 ... ... 1
```
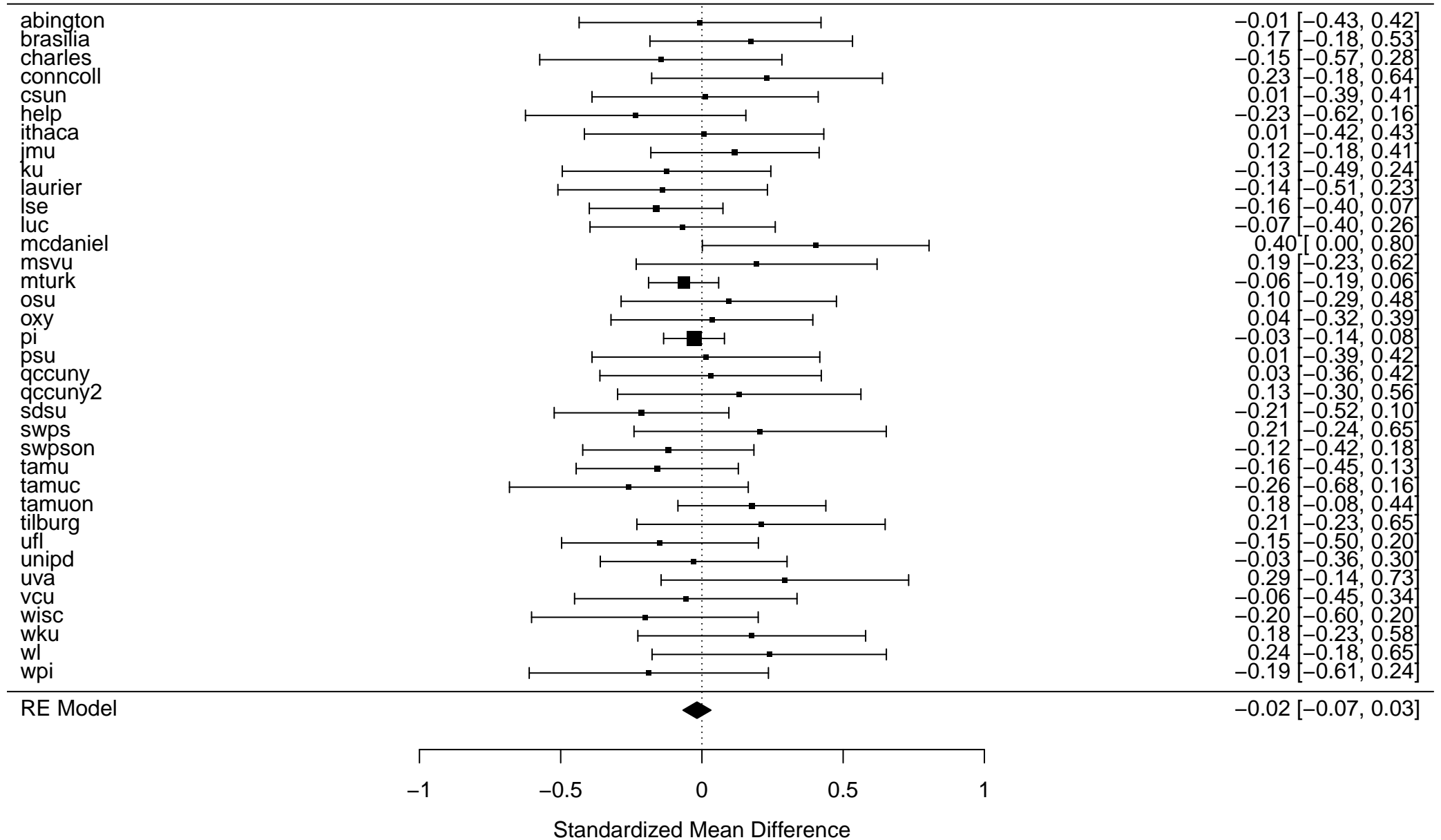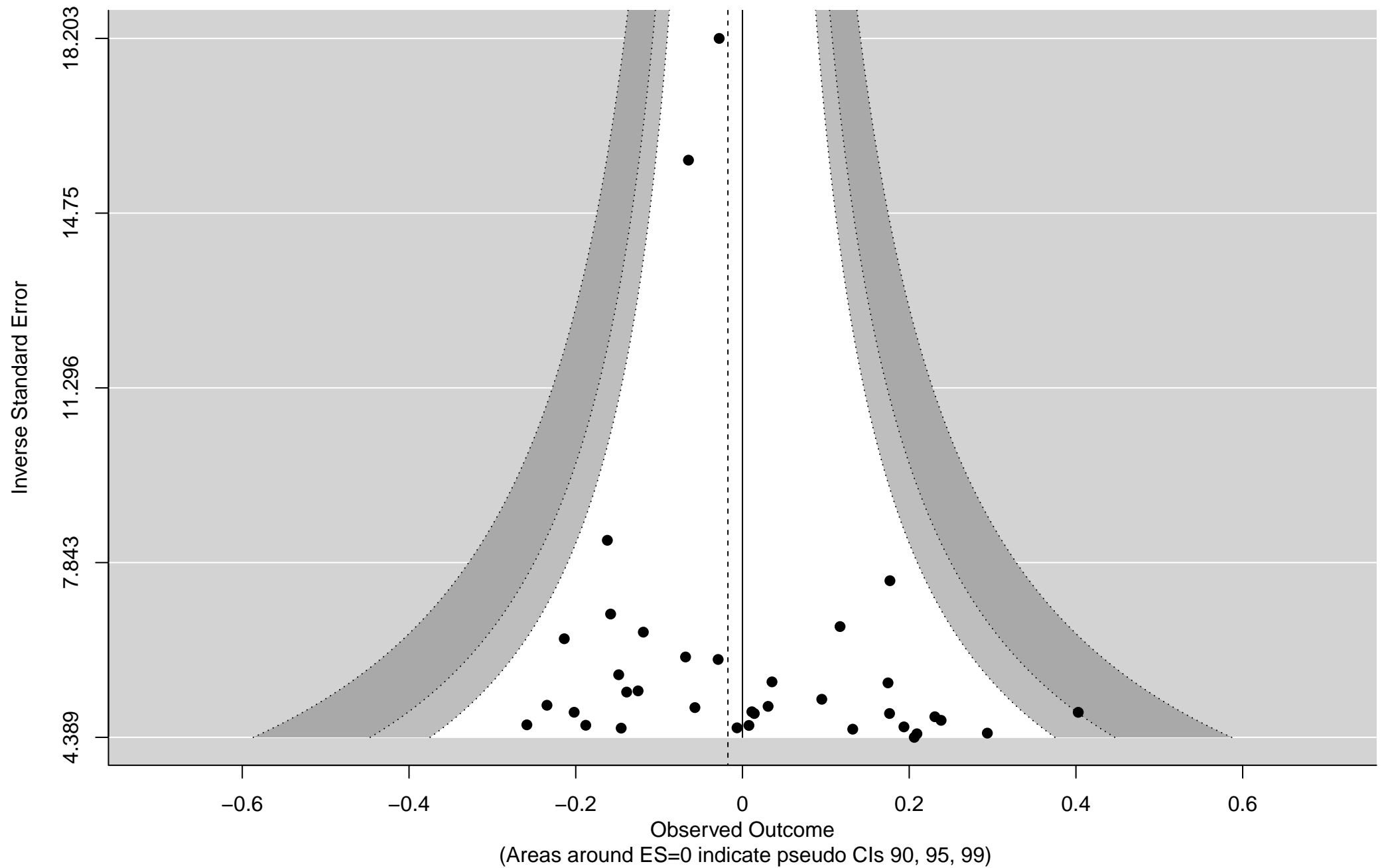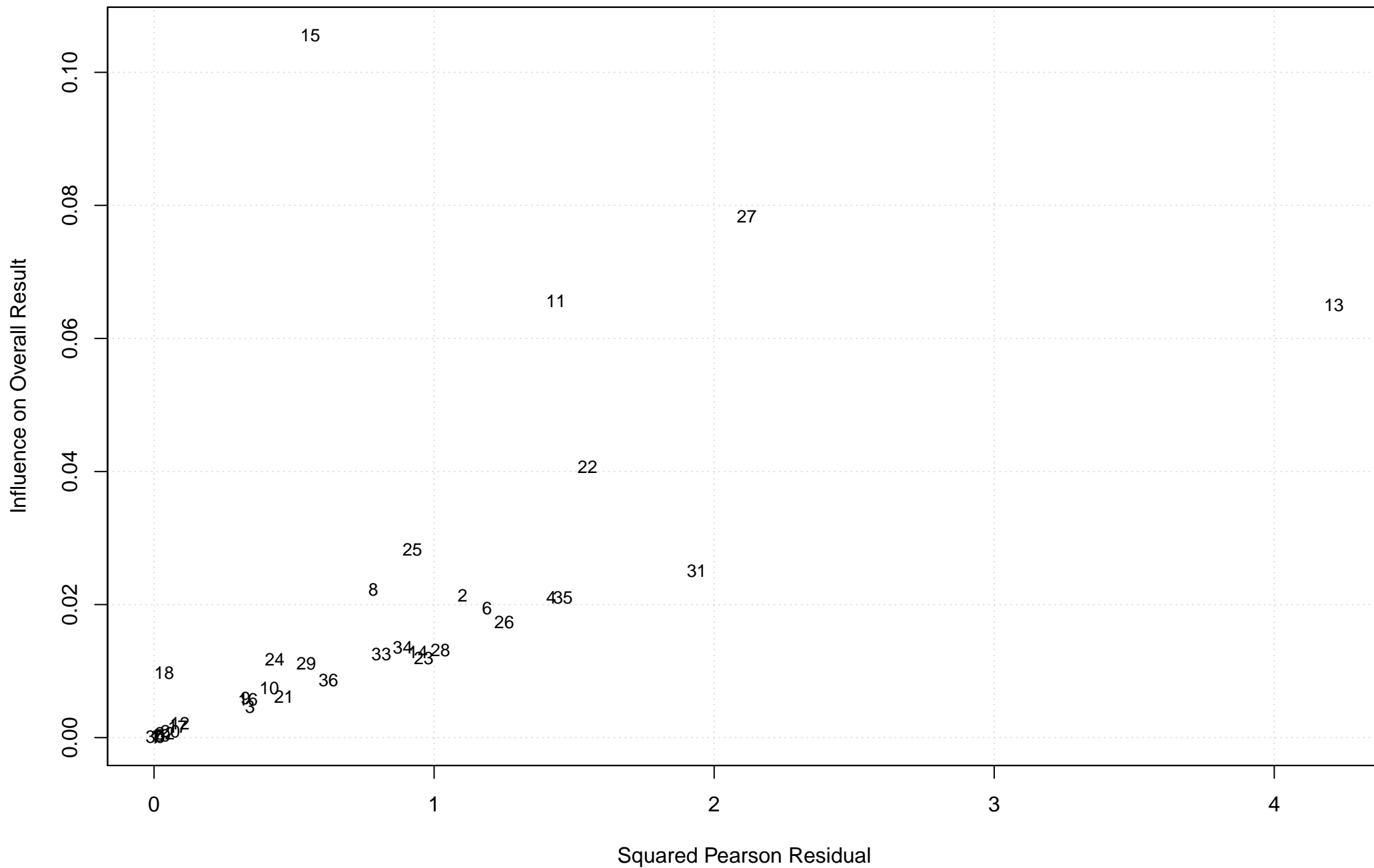
Random Effects model for Currency Priming

abington		−0.01 [−0.43, 0.42]
brasilia		0.17 [−0.18, 0.53]
charles		−0.15 [−0.57, 0.28]
conncoll		0.23 [−0.18, 0.64]
csun		0.01 [−0.39, 0.41]
help		−0.23 [−0.62, 0.16]
ithaca		0.01 [−0.42, 0.43]
jmu		0.12 [−0.18, 0.41]
ku		−0.13 [−0.49, 0.24]
laurier		−0.14 [−0.51, 0.23]
lse		−0.16 [−0.40, 0.07]
luc		−0.07 [−0.40, 0.26]
mcdaniel		0.40 [0.00, 0.80]
msvu		0.19 [−0.23, 0.62]
mturk		−0.06 [−0.19, 0.06]
osu		0.10 [−0.29, 0.48]
oxy		0.04 [−0.32, 0.39]
pi		−0.03 [−0.14, 0.08]
psu		0.01 [−0.39, 0.42]
qccuny		0.03 [−0.36, 0.42]
qccuny2		0.13 [−0.30, 0.56]
sdsu		−0.21 [−0.52, 0.10]
swps		0.21 [−0.24, 0.65]
swpson		−0.12 [−0.42, 0.18]
tamu		−0.16 [−0.45, 0.13]
tamuc		−0.26 [−0.68, 0.16]
tamuon		0.18 [−0.08, 0.44]
tilburg		0.21 [−0.23, 0.65]
ufl		−0.15 [−0.50, 0.20]
unipd		−0.03 [−0.36, 0.30]
uva		0.29 [−0.14, 0.73]
vcu		−0.06 [−0.45, 0.34]
wisc		−0.20 [−0.60, 0.20]
wku		0.18 [−0.23, 0.58]
wl		0.24 [−0.18, 0.65]
wpi		−0.19 [−0.61, 0.24]
RE Model		−0.02 [−0.07, 0.03]

−1   −0.5   0   0.5   1

Standardized Mean Difference

Funnel plot
RE model for Currency Priming
dotted line = ES estimate

Inverse Standard Error

Observed Outcome
(Areas around ES=0 indicate pseudo CIs 90, 95, 99)

Influence plot (Baujat)
RE model for Currency Priming

Radial plot (Galbraith)
RE model for Currency Priming

$$z_i = \frac{y_i}{\sqrt{v_i + \tau^2}}$$

$$x_i = 1/\sqrt{v_i + \tau^2}$$
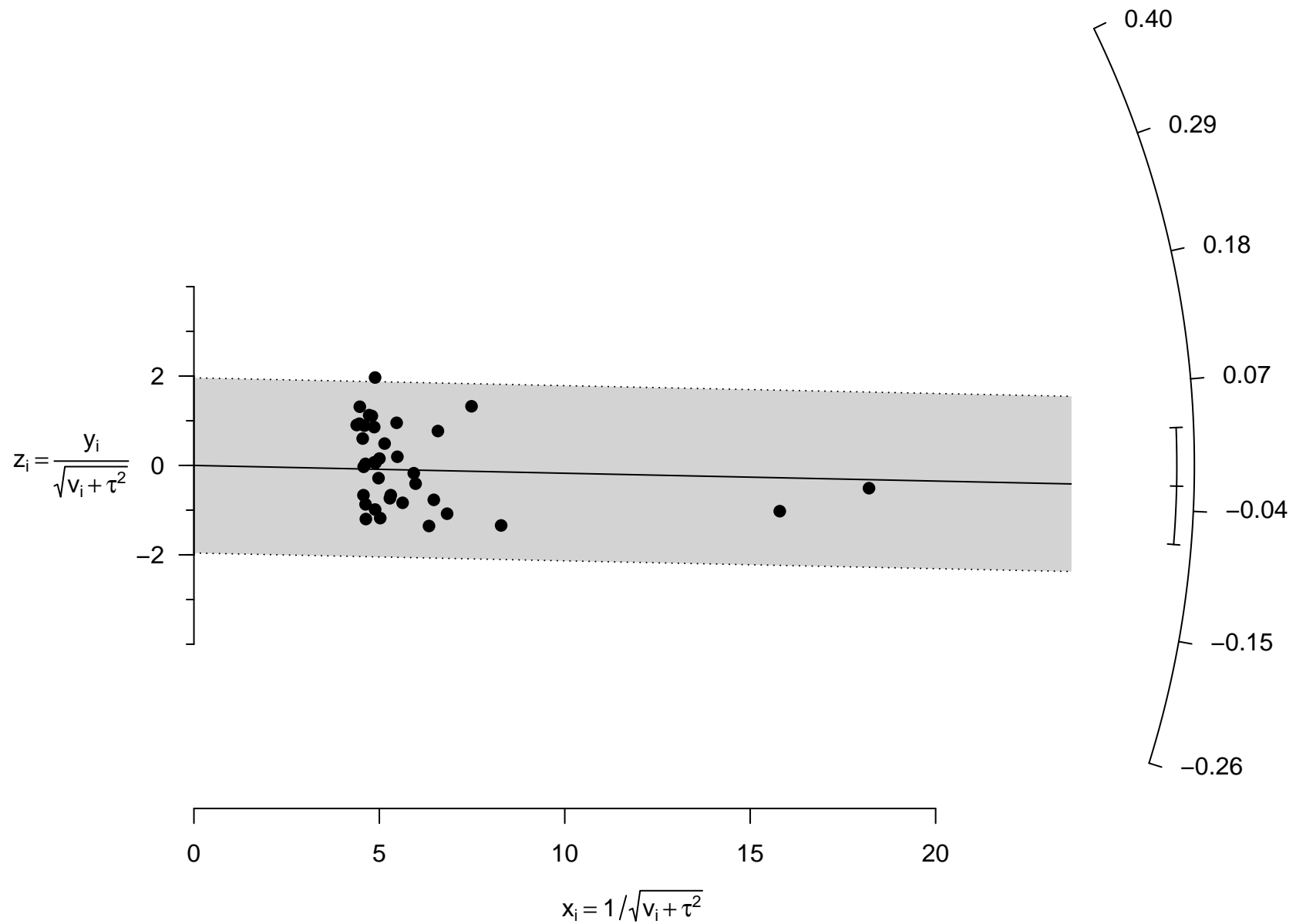
Output of Random Effects model for Imagined contact

```
Random-Effects Model (k = 36; tau^2 estimator: REML)

tau^2 (estimated amount of total heterogeneity): 0.0063 (SE = 0.0072)
tau (square root of estimated tau^2 value):       0.0795
I^2 (total heterogeneity / total variability):   20.60%
H^2 (total variability / sampling variability):  1.26


Test for Heterogeneity:
Q(df = 35) = 45.8726, p-val = 0.1033


Model Results:

estimate      se     zval     pval    ci.lb   ci.ub
  0.1183  0.0313  3.7866  0.0002  0.0571  0.1796   ***


---
Signif. codes:  0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ....... 0.1 ... ... 1
```
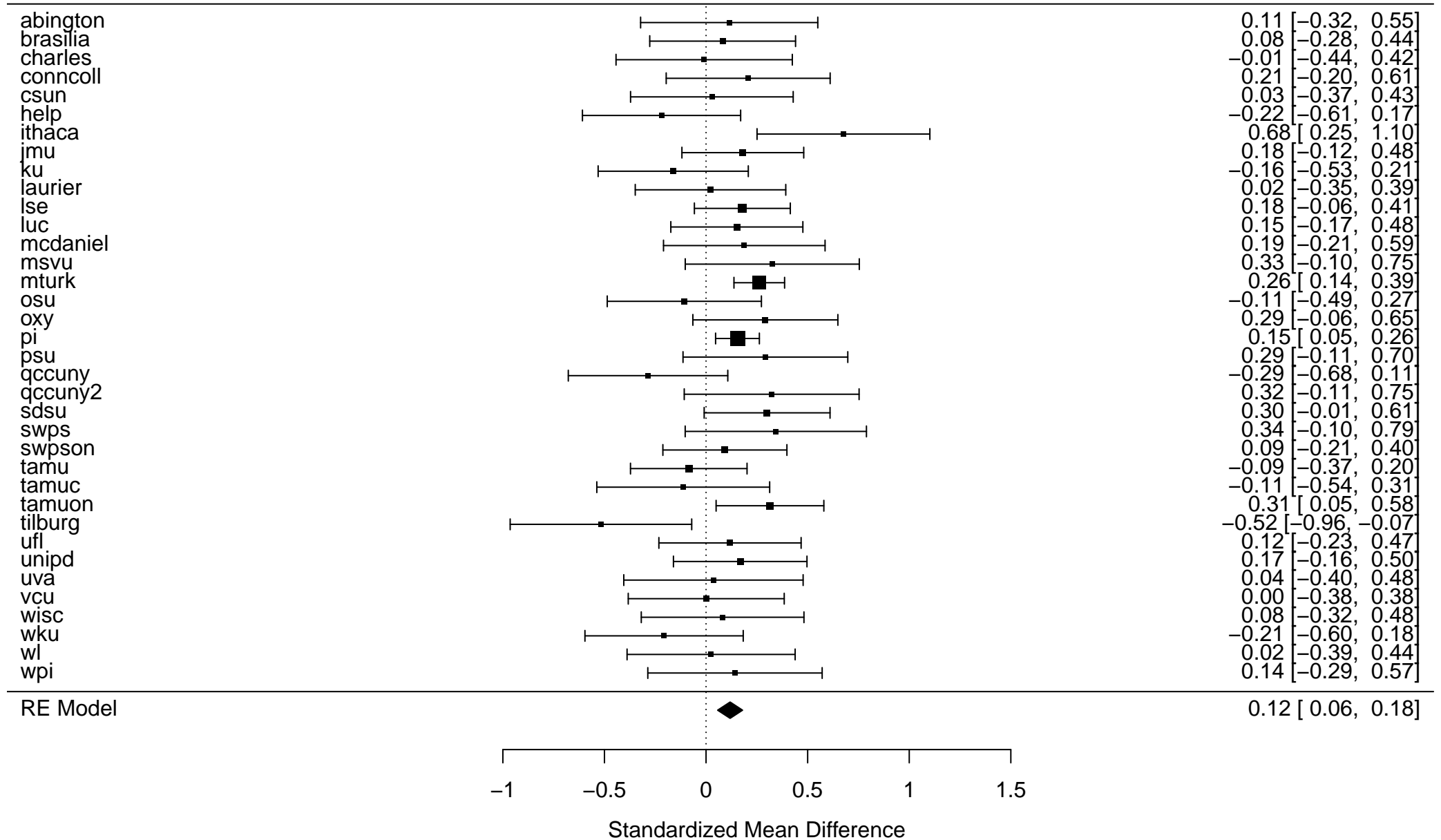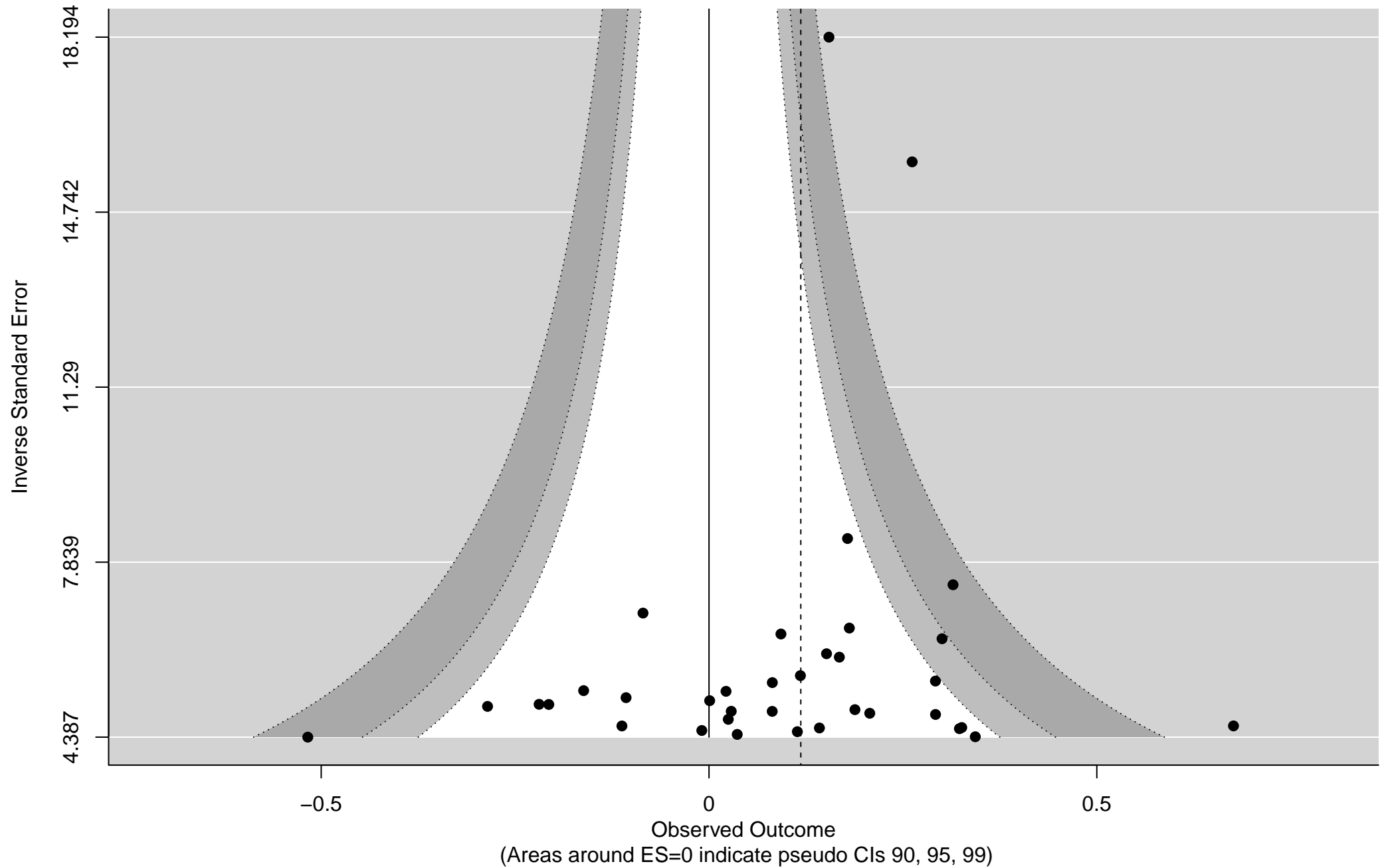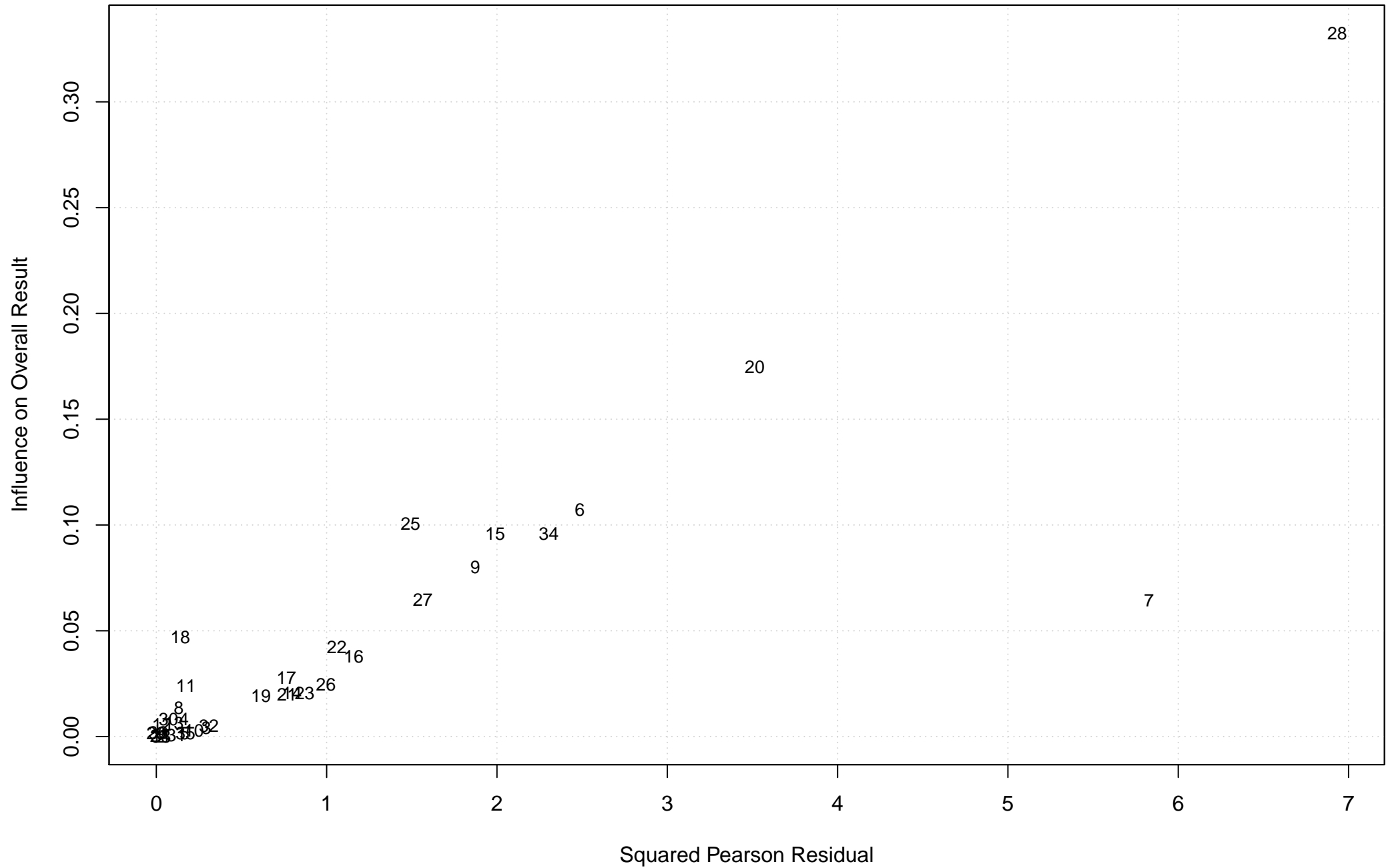
Random Effects model for Imagined contact

abington		0.11 [−0.32, 0.55]
brasilia		0.08 [−0.28, 0.44]
charles		−0.01 [−0.44, 0.42]
conncoll		0.21 [−0.20, 0.61]
csun		0.03 [−0.37, 0.43]
help		−0.22 [−0.61, 0.17]
ithaca		0.68 [0.25, 1.10]
jmu		0.18 [−0.12, 0.48]
ku		−0.16 [−0.53, 0.21]
laurier		0.02 [−0.35, 0.39]
lse		0.18 [−0.06, 0.41]
luc		0.15 [−0.17, 0.48]
mcdaniel		0.19 [−0.21, 0.59]
msvu		0.33 [−0.10, 0.75]
mturk		0.26 [0.14, 0.39]
osu		−0.11 [−0.49, 0.27]
oxy		0.29 [−0.06, 0.65]
pi		0.15 [0.05, 0.26]
psu		0.29 [−0.11, 0.70]
qccuny		−0.29 [−0.68, 0.11]
qccuny2		0.32 [−0.11, 0.75]
sdsu		0.30 [−0.01, 0.61]
swps		0.34 [−0.10, 0.79]
swpson		0.09 [−0.21, 0.40]
tamu		−0.09 [−0.37, 0.20]
tamuc		−0.11 [−0.54, 0.31]
tamuon		0.31 [0.05, 0.58]
tilburg		−0.52 [−0.96, −0.07]
ufl		0.12 [−0.23, 0.47]
unipd		0.17 [−0.16, 0.50]
uva		0.04 [−0.40, 0.48]
vcu		0.00 [−0.38, 0.38]
wisc		0.08 [−0.32, 0.48]
wku		−0.21 [−0.60, 0.18]
wl		0.02 [−0.39, 0.44]
wpi		0.14 [−0.29, 0.57]
RE Model		0.12 [0.06, 0.18]

Standardized Mean Difference

Funnel plot
RE model for Imagined contact
dotted line = ES estimate

Inverse Standard Error

18.194

14.742

11.29

7.839

4.387

−0.5   0   0.5

Observed Outcome
(Areas around ES=0 indicate pseudo CIs 90, 95, 99)

Influence plot (Baujat)
RE model for Imagined contact

Radial plot (Galbraith)
RE model for Imagined contact
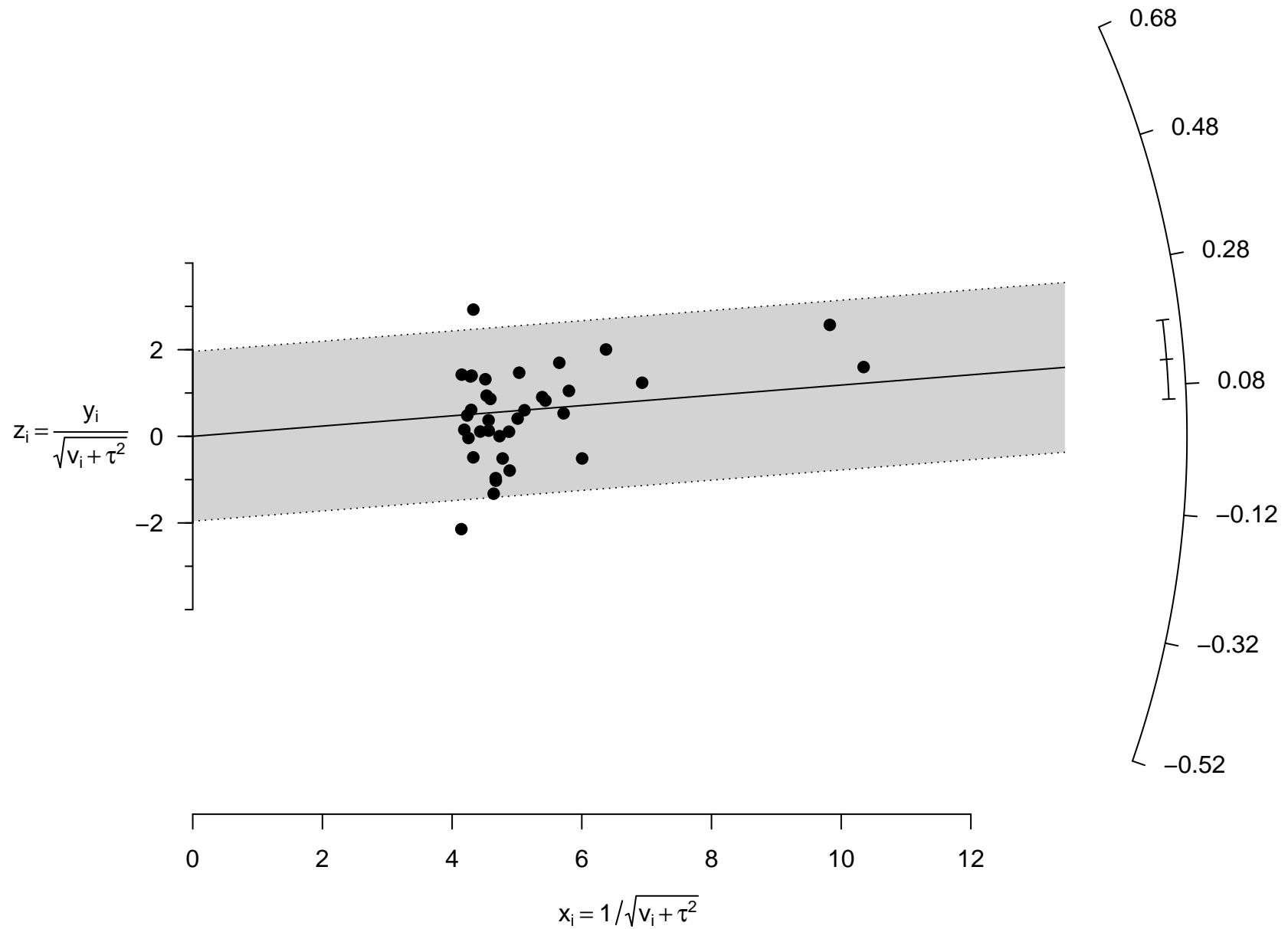
$$z_i = \frac{y_i}{\sqrt{v_i + \tau^2}}$$

$$x_i = 1/\sqrt{v_i + \tau^2}$$

Output of Random Effects model for Sex differences in implicit math attitudes

```
Random-Effects Model (k = 35; tau^2 estimator: REML)

tau^2 (estimated amount of total heterogeneity): 0.0126 (SE = 0.0115)
tau (square root of estimated tau^2 value):       0.1124
I^2 (total heterogeneity / total variability):   28.06%
H^2 (total variability / sampling variability):  1.39


Test for Heterogeneity:
Q(df = 34) = 47.5978, p-val = 0.0608


Model Results:

estimate      se     zval     pval    ci.lb    ci.ub
  0.5736  0.0394  14.5562  <.0001   0.4964   0.6508   ***


---
Signif. codes:  0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ....... 0.1 ... ... 1
```
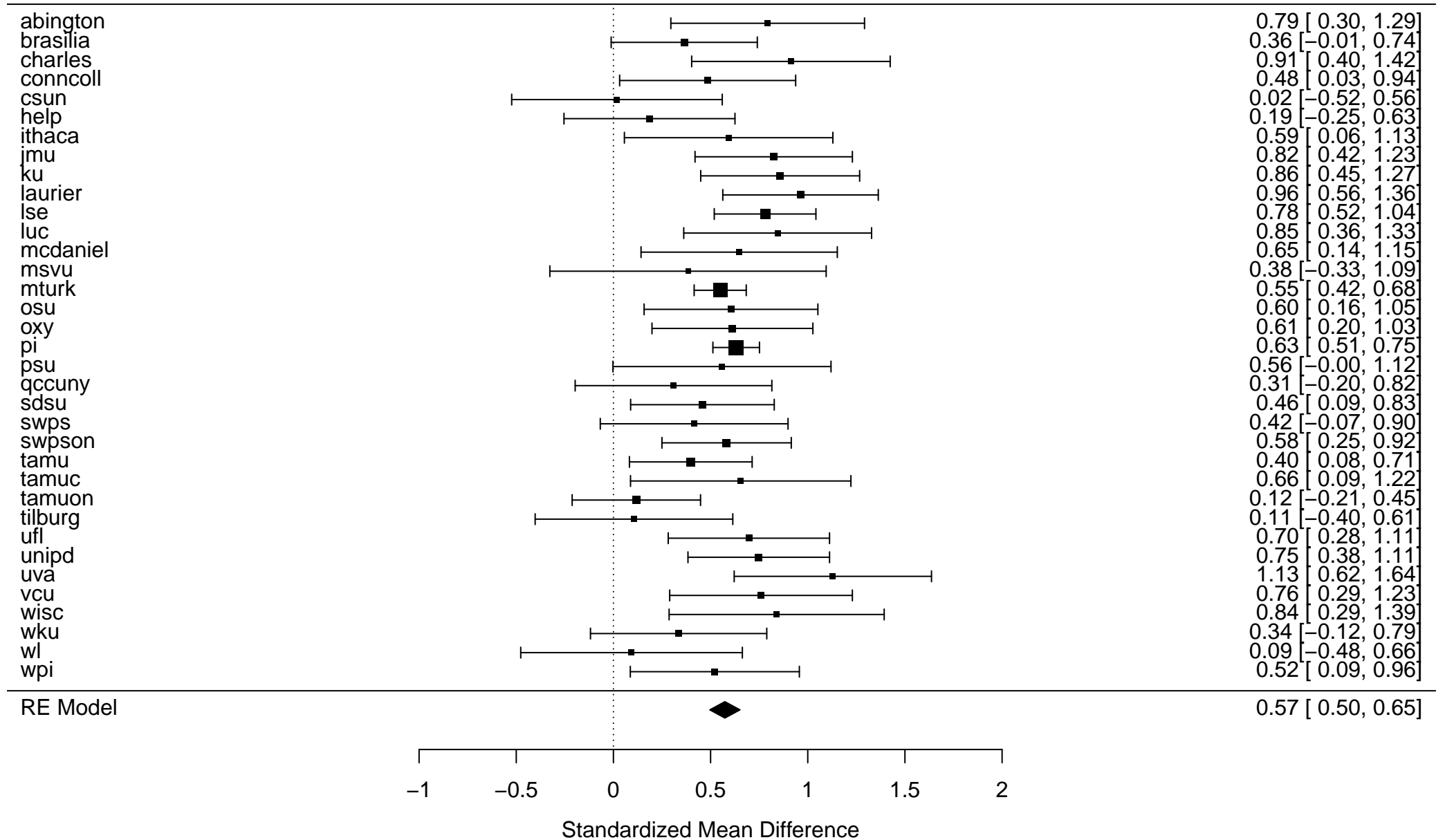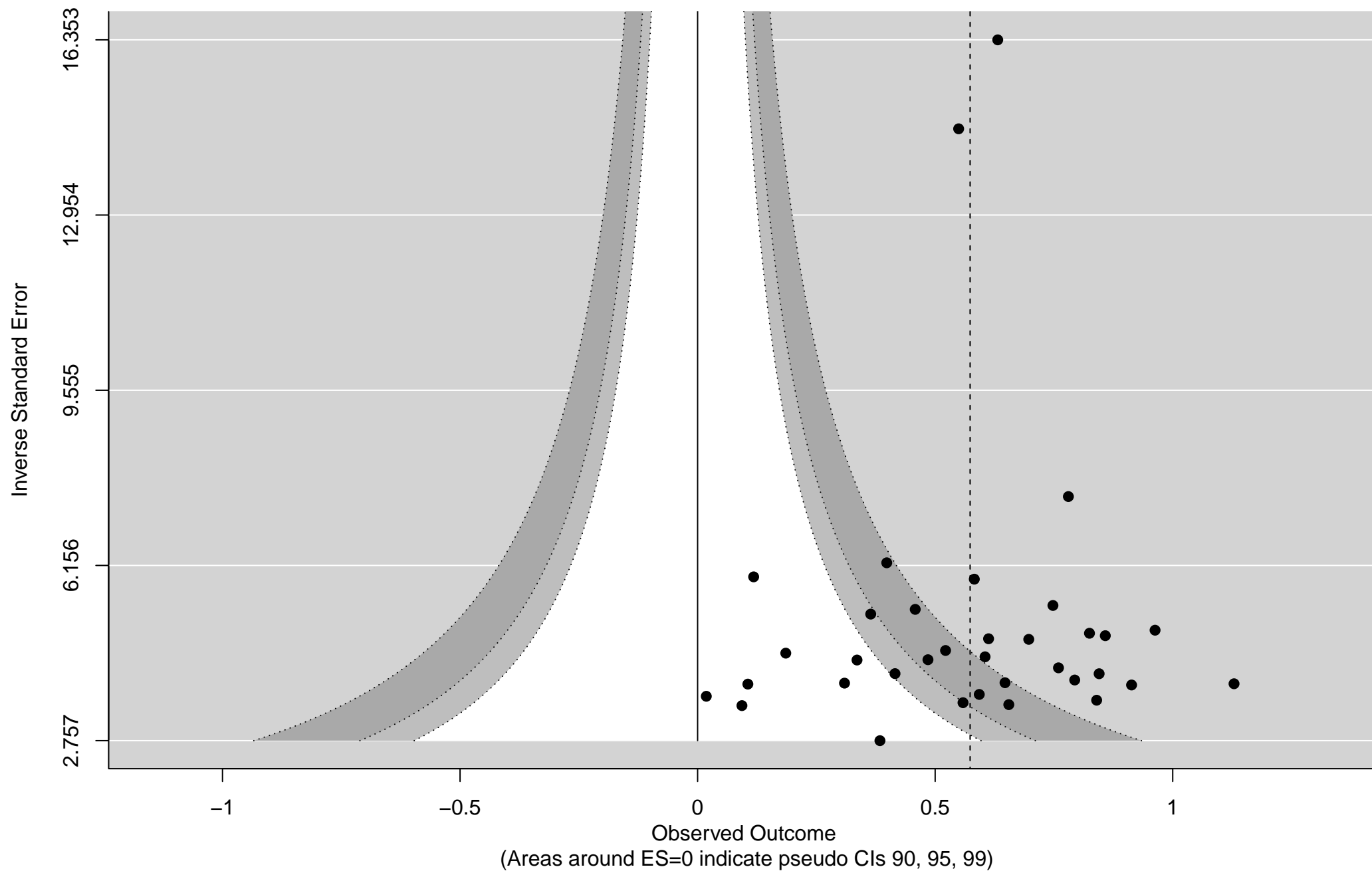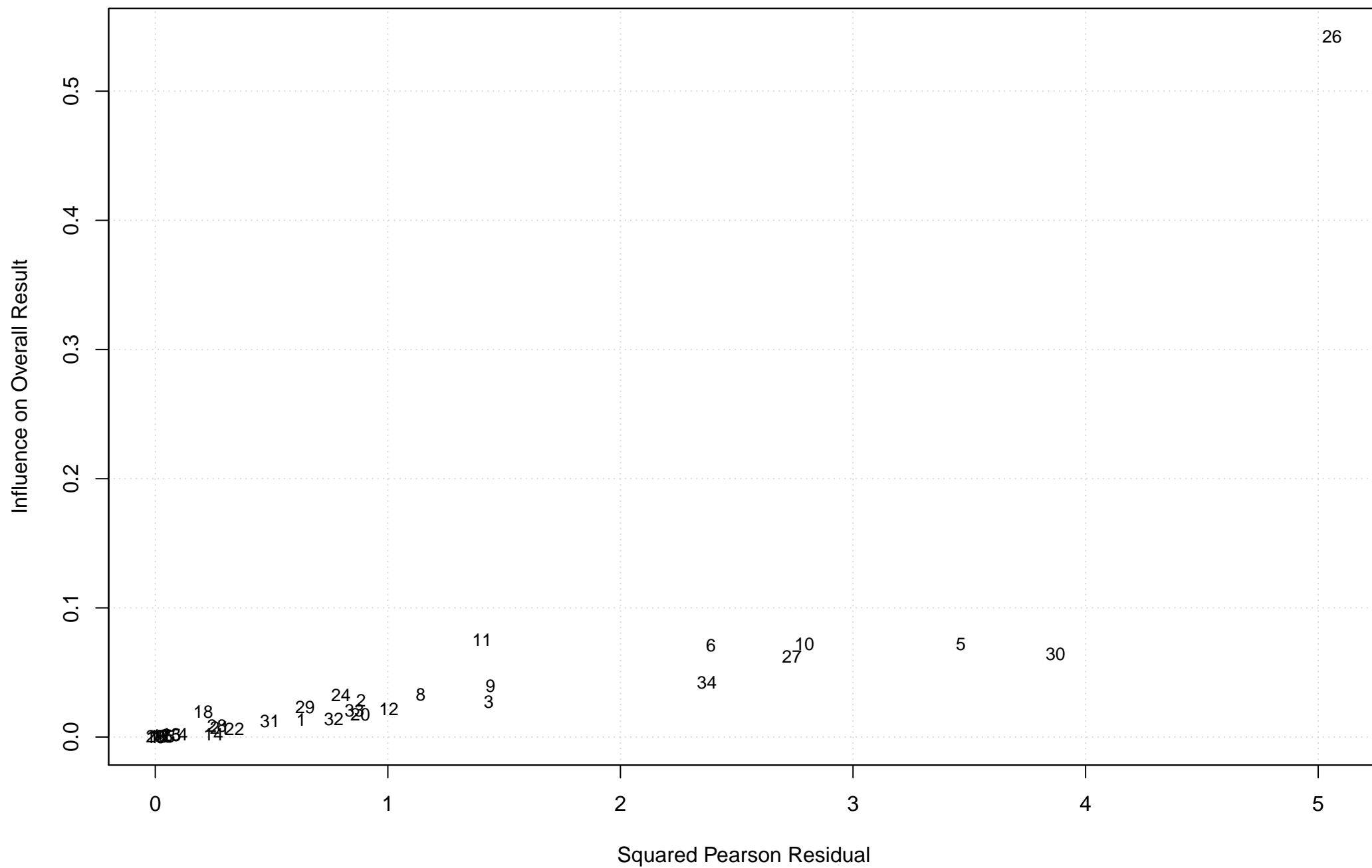
Random Effects model for Sex differences in implicit math attitudes

abington	0.79 [0.30, 1.29]
brasilia	0.36 [−0.01, 0.74]
charles	0.91 [0.40, 1.42]
conncoll	0.48 [0.03, 0.94]
csun	0.02 [−0.52, 0.56]
help	0.19 [−0.25, 0.63]
ithaca	0.59 [0.06, 1.13]
jmu	0.82 [0.42, 1.23]
ku	0.86 [0.45, 1.27]
laurier	0.96 [0.56, 1.36]
lse	0.78 [0.52, 1.04]
luc	0.85 [0.36, 1.33]
mcdaniel	0.65 [0.14, 1.15]
msvu	0.38 [−0.33, 1.09]
mturk	0.55 [0.42, 0.68]
osu	0.60 [0.16, 1.05]
oxy	0.61 [0.20, 1.03]
pi	0.63 [0.51, 0.75]
psu	0.56 [−0.00, 1.12]
qccuny	0.31 [−0.20, 0.82]
sdsu	0.46 [0.09, 0.83]
swps	0.42 [−0.07, 0.90]
swpson	0.58 [0.25, 0.92]
tamu	0.40 [0.08, 0.71]
tamuc	0.66 [0.09, 1.22]
tamuon	0.12 [−0.21, 0.45]
tilburg	0.11 [−0.40, 0.61]
ufl	0.70 [0.28, 1.11]
unipd	0.75 [0.38, 1.11]
uva	1.13 [0.62, 1.64]
vcu	0.76 [0.29, 1.23]
wisc	0.84 [0.29, 1.39]
wku	0.34 [−0.12, 0.79]
wl	0.09 [−0.48, 0.66]
wpi	0.52 [0.09, 0.96]
RE Model	0.57 [0.50, 0.65]

Standardized Mean Difference

Funnel plot
RE model for Sex differences in implicit math attitudes
dotted line = ES estimate

Inverse Standard Error

Observed Outcome
(Areas around ES=0 indicate pseudo CIs 90, 95, 99)

Influence plot (Baujat)
RE model for Sex differences in implicit math attitudes

Radial plot (Galbraith)
RE model for Sex differences in implicit math attitudes
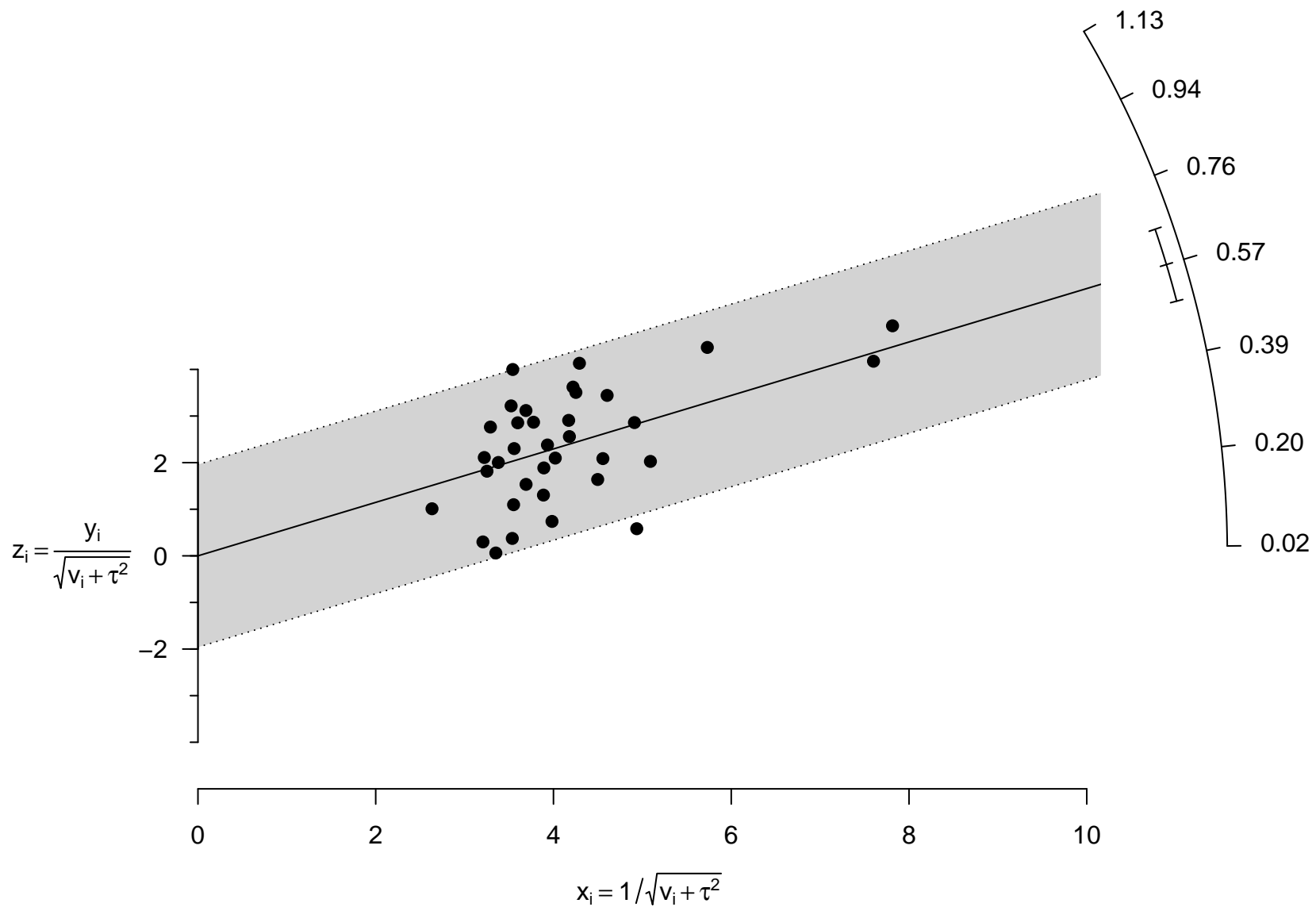
$z_i = \dfrac{y_i}{\sqrt{v_i + \tau^2}}$

$x_i = 1/\sqrt{v_i + \tau^2}$

Output of Random Effects model for Relations between impl. and expl. math attitudes

```
Random-Effects Model (k = 35; tau^2 estimator: REML)

tau^2 (estimated amount of total heterogeneity): 0.0032 (SE = 0.0021)
tau (square root of estimated tau^2 value):       0.0562
I^2 (total heterogeneity / total variability):   40.05%
H^2 (total variability / sampling variability):  1.67


Test for Heterogeneity:
Q(df = 34) = 54.8361, p-val = 0.0133


Model Results:


estimate       se     zval     pval    ci.lb    ci.ub
  0.3927   0.0162   24.2877   <.0001   0.3610   0.4244   ***


---
Signif. codes:  0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ....... 0.1 ... ... 1
```
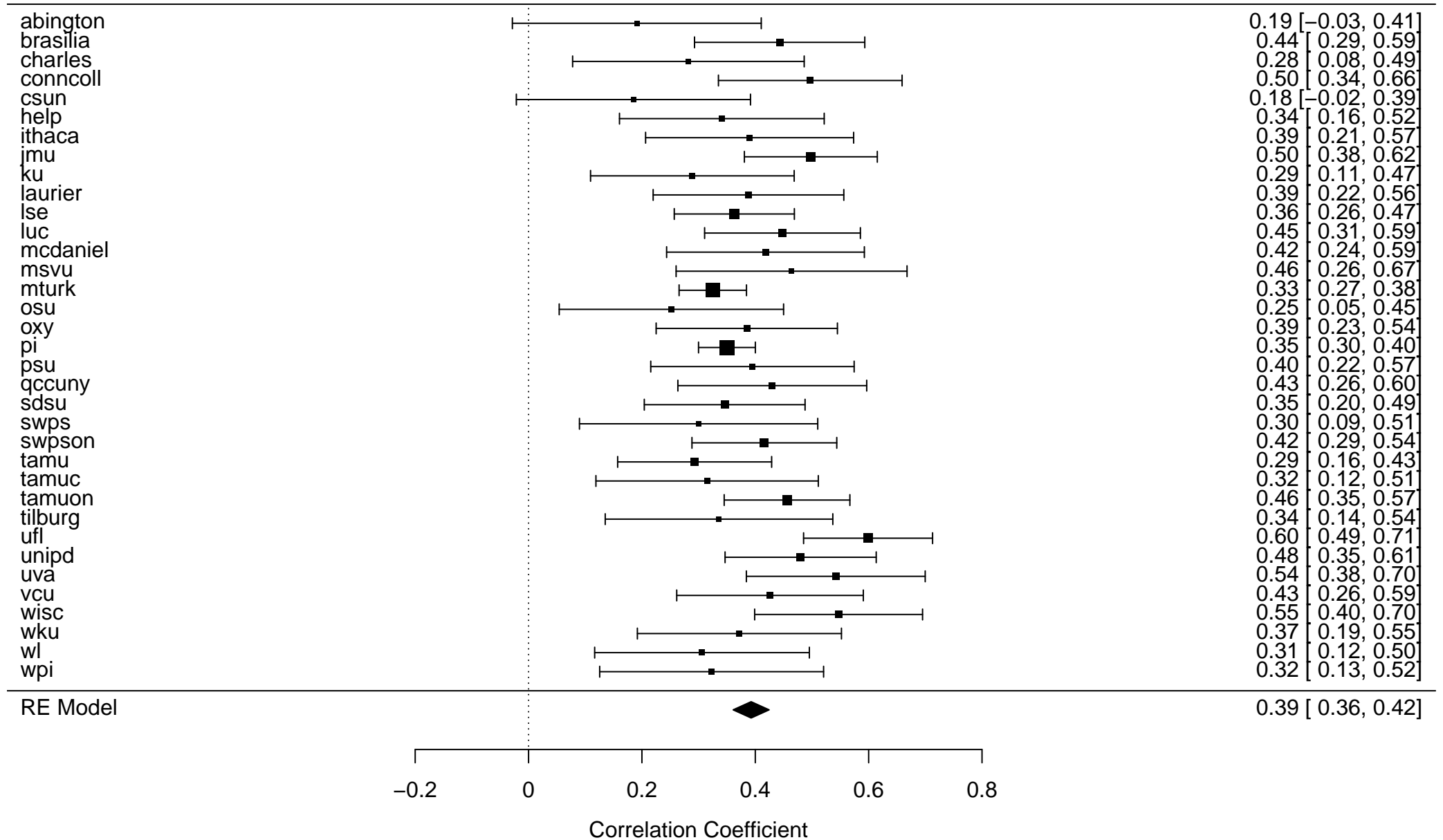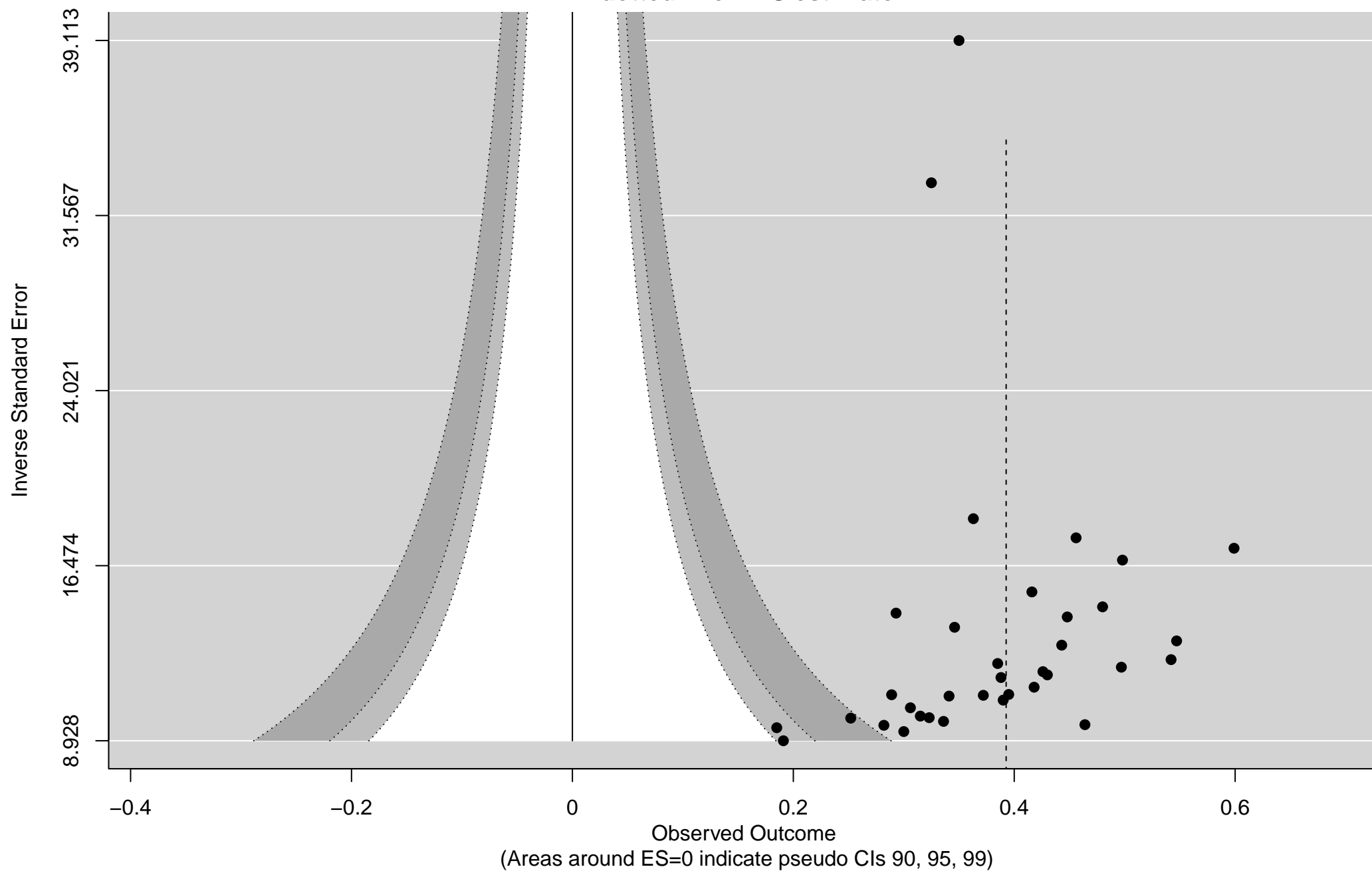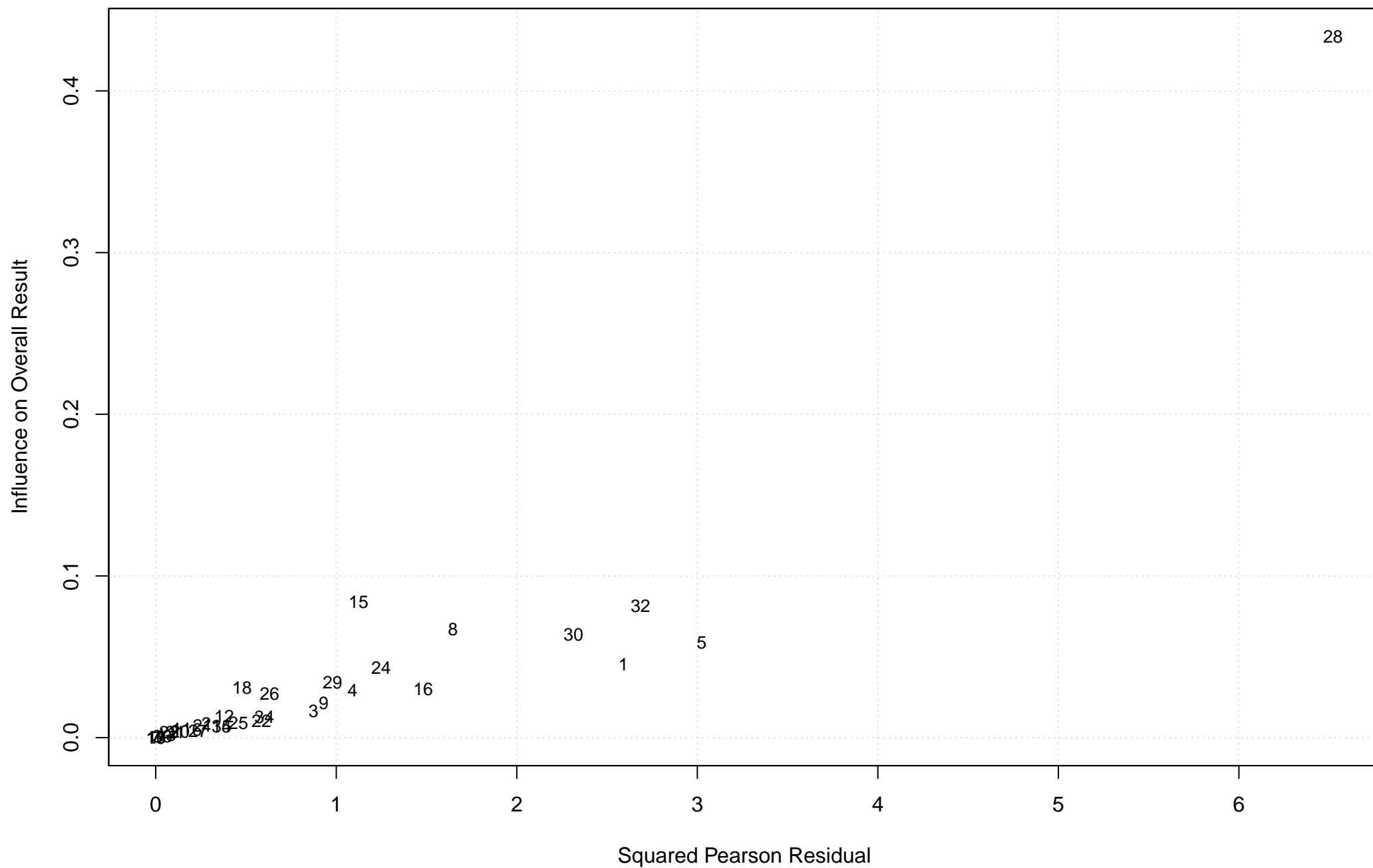
Random Effects model for Relations between impl. and expl. math attitudes

abington		0.19 [−0.03, 0.41]
brasilia		0.44 [0.29, 0.59]
charles		0.28 [0.08, 0.49]
conncoll		0.50 [0.34, 0.66]
csun		0.18 [−0.02, 0.39]
help		0.34 [0.16, 0.52]
ithaca		0.39 [0.21, 0.57]
jmu		0.50 [0.38, 0.62]
ku		0.29 [0.11, 0.47]
laurier		0.39 [0.22, 0.56]
lse		0.36 [0.26, 0.47]
luc		0.45 [0.31, 0.59]
mcdaniel		0.42 [0.24, 0.59]
msvu		0.46 [0.26, 0.67]
mturk		0.33 [0.27, 0.38]
osu		0.25 [0.05, 0.45]
oxy		0.39 [0.23, 0.54]
pi		0.35 [0.30, 0.40]
psu		0.40 [0.22, 0.57]
qccuny		0.43 [0.26, 0.60]
sdsu		0.35 [0.20, 0.49]
swps		0.30 [0.09, 0.51]
swpson		0.42 [0.29, 0.54]
tamu		0.29 [0.16, 0.43]
tamuc		0.32 [0.12, 0.51]
tamuon		0.46 [0.35, 0.57]
tilburg		0.34 [0.14, 0.54]
ufl		0.60 [0.49, 0.71]
unipd		0.48 [0.35, 0.61]
uva		0.54 [0.38, 0.70]
vcu		0.43 [0.26, 0.59]
wisc		0.55 [0.40, 0.70]
wku		0.37 [0.19, 0.55]
wl		0.31 [0.12, 0.50]
wpi		0.32 [0.13, 0.52]
RE Model		0.39 [0.36, 0.42]

−0.2   0   0.2   0.4   0.6   0.8

Correlation Coefficient

Funnel plot
RE model for Relations between impl. and expl. math attitudes
dotted line = ES estimate

Inverse Standard Error

39.113
31.567
24.021
16.474
8.928

−0.4   −0.2   0   0.2   0.4   0.6

Observed Outcome
(Areas around ES=0 indicate pseudo CIs 90, 95, 99)

Influence plot (Baujat)
RE model for Relations between impl. and expl. math attitudes

Radial plot (Galbraith)
RE model for Relations between impl. and expl. math attitudes

$$z_i = \frac{y_i}{\sqrt{v_i + \tau^2}}$$

$$x_i = 1 / \sqrt{v_i + \tau^2}$$