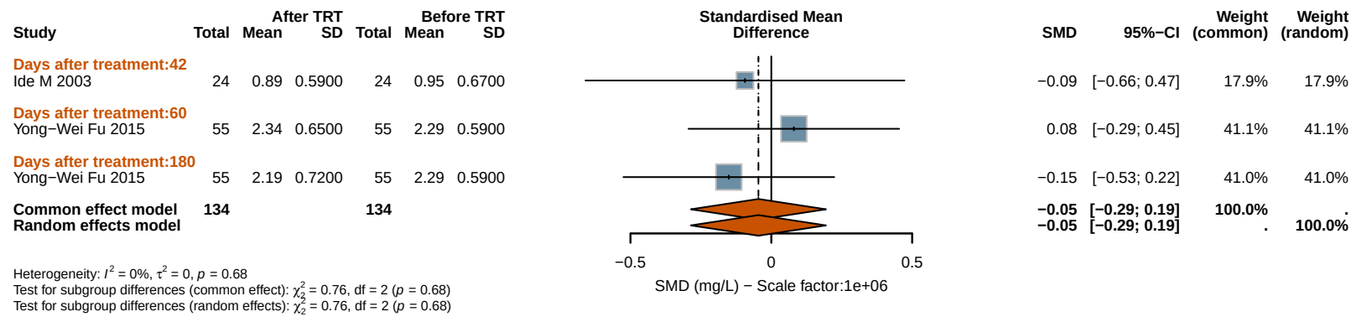
Cytokine: IL−1beta − Treatment: Standard

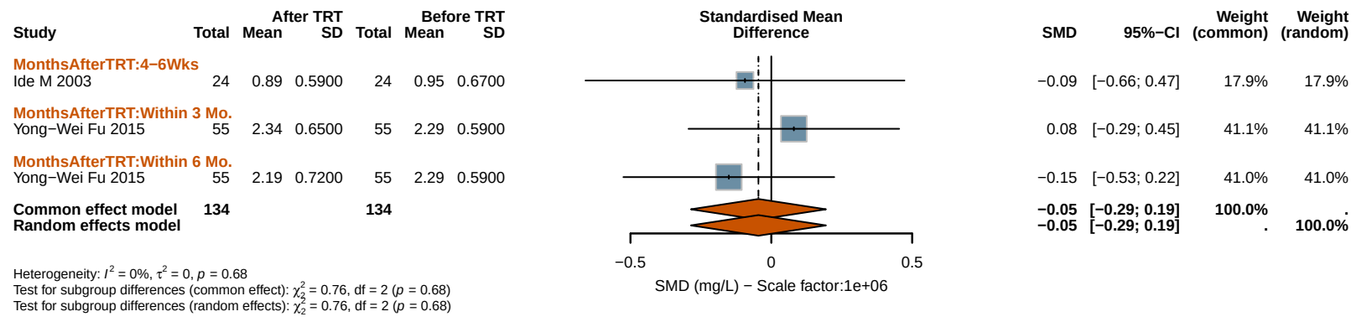


Heterogeneity: I^2 = 0%, τ^2 = 0, p = 0.68
Test for subgroup differences (common effect): χ^2_2 = 0.76, df = 2 (p = 0.68)
Test for subgroup differences (random effects): χ^2_2 = 0.76, df = 2 (p = 0.68)

SMD: −0.05; 95%C.I.[−0.29; 0.19] P value for common effect= 0.7083

SMD: −0.05; 95%C.I.[−0.29; 0.19] P value for random effect= 0.7083

Cytokine: IL−1beta − Treatment: Standard



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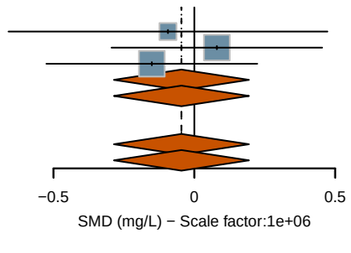
SMD: −0.05; 95%C.I.[−0.29; 0.19] P value for random effect= 0.7083

Cytokine: IL−1beta − Treatment: Standard

Study	After TRT Total	After TRT Mean	After TRT SD	Before TRT Total	Before TRT Mean	Before TRT SD	SMD	95%−CI	Weight (common)	Weight (random)
Assay type:ELISA										
Ide M 2003	24	0.89	0.5900	24	0.95	0.6700	−0.09	[−0.66; 0.47]	17.9%	17.9%
Yong−Wei Fu 2015	55	2.34	0.6500	55	2.29	0.5900	0.08	[−0.29; 0.45]	41.1%	41.1%
Yong−Wei Fu 2015	55	2.19	0.7200	55	2.29	0.5900	−0.15	[−0.53; 0.22]	41.0%	41.0%
Common effect model	**134**			**134**			**−0.05**	**[−0.29; 0.19]**	**100.0%**	**.**
Random effects model							**−0.05**	**[−0.29; 0.19]**	**.**	**100.0%**
Heterogeneity: I^2 = 0%, τ^2 = 0, p = 0.68										
Common effect model	**134**			**134**			**−0.05**	**[−0.29; 0.19]**	**100.0%**	**.**
Random effects model							**−0.05**	**[−0.29; 0.19]**	**.**	**100.0%**

Heterogeneity: I^2 = 0%, τ^2 = 0, p = 0.68
Test for subgroup differences (common effect): χ^2_3 = 0.00, df = 0 (p = NA)
Test for subgroup differences (random effects): χ^2_0 = 0.00, df = 0 (p = NA)



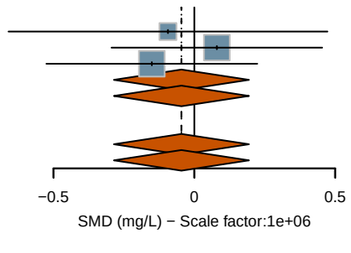
SMD: −0.05; 95%C.I.[−0.29; 0.19] P value for common effect= 0.7083

SMD: −0.05; 95%C.I.[−0.29; 0.19] P value for random effect= 0.7083

Cytokine: IL−1beta − Treatment: Standard

Study	After TRT Total	After TRT Mean	After TRT SD	Before TRT Total	Before TRT Mean	Before TRT SD	SMD	95%−CI	Weight (common)	Weight (random)
Bias judgment:Low risk										
Ide M 2003	24	0.89	0.5900	24	0.95	0.6700	−0.09	[−0.66; 0.47]	17.9%	17.9%
Yong−Wei Fu 2015	55	2.34	0.6500	55	2.29	0.5900	0.08	[−0.29; 0.45]	41.1%	41.1%
Yong−Wei Fu 2015	55	2.19	0.7200	55	2.29	0.5900	−0.15	[−0.53; 0.22]	41.0%	41.0%
Common effect model	**134**			**134**			**−0.05**	**[−0.29; 0.19]**	**100.0%**	**.**
Random effects model							**−0.05**	**[−0.29; 0.19]**	**.**	**100.0%**
Heterogeneity: I^2 = 0%, τ^2 = 0, p = 0.68										
Common effect model	**134**			**134**			**−0.05**	**[−0.29; 0.19]**	**100.0%**	**.**
Random effects model							**−0.05**	**[−0.29; 0.19]**	**.**	**100.0%**

Heterogeneity: I^2 = 0%, τ^2 = 0, p = 0.68
Test for subgroup differences (common effect): χ^2_3 = 0.00, df = 0 (p = NA)
Test for subgroup differences (random effects): χ^2_0 = 0.00, df = 0 (p = NA)



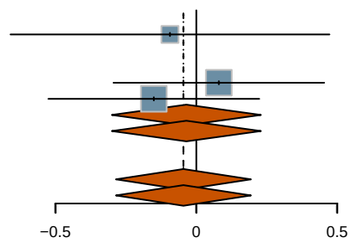
SMD: −0.05; 95%C.I.[−0.29; 0.19] P value for common effect= 0.7083

SMD: −0.05; 95%C.I.[−0.29; 0.19] P value for random effect= 0.7083

Cytokine: IL−1beta − Treatment: Standard

Study	After TRT Total	After TRT Mean	After TRT SD	Before TRT Total	Before TRT Mean	Before TRT SD	SMD	95%−CI	Weight (common)	Weight (random)
Study design:Prospective Interventional cohort study										
Ide M 2003	24	0.89	0.5900	24	0.95	0.6700	−0.09	[−0.66; 0.47]	17.9%	17.9%
Study design:RCT										
Yong−Wei Fu 2015	55	2.34	0.6500	55	2.29	0.5900	0.08	[−0.29; 0.45]	41.1%	41.1%
Yong−Wei Fu 2015	55	2.19	0.7200	55	2.29	0.5900	−0.15	[−0.53; 0.22]	41.0%	41.0%
Common effect model	**110**			**110**			**−0.04**	**[−0.30; 0.23]**	**82.1%**	**.**
Random effects model							**−0.04**	**[−0.30; 0.23]**	**.**	**82.1%**
Heterogeneity: I^2 = 0%, τ^2 = 0, p = 0.39										
Common effect model	**134**			**134**			**−0.05**	**[−0.29; 0.19]**	**100.0%**	**.**
Random effects model							**−0.05**	**[−0.29; 0.19]**	**.**	**100.0%**

Standardised Mean Difference

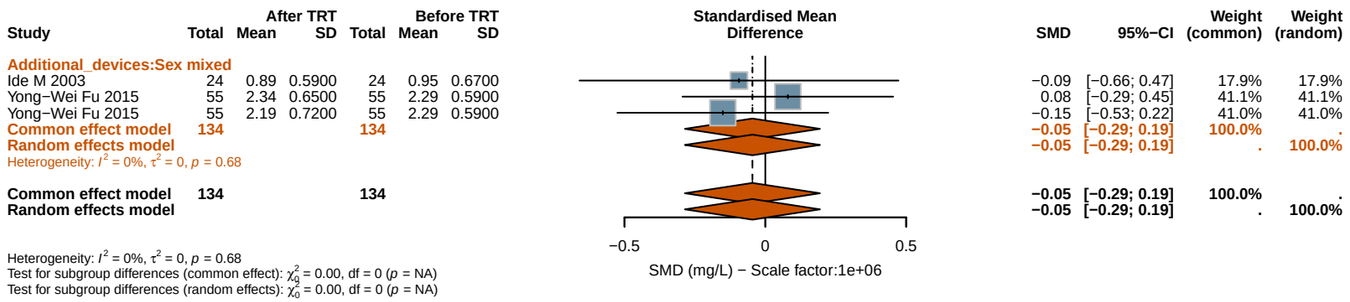


Heterogeneity: I^2 = 0%, τ^2 = 0, p = 0.68
Test for subgroup differences (common effect): χ^2_1 = 0.03, df = 1 (p = 0.86)
Test for subgroup differences (random effects): χ^2_1 = 0.03, df = 1 (p = 0.86)

SMD: −0.05; 95%C.I.[−0.29; 0.19] P value for common effect= 0.7083

SMD: −0.05; 95%C.I.[−0.29; 0.19] P value for random effect= 0.7083

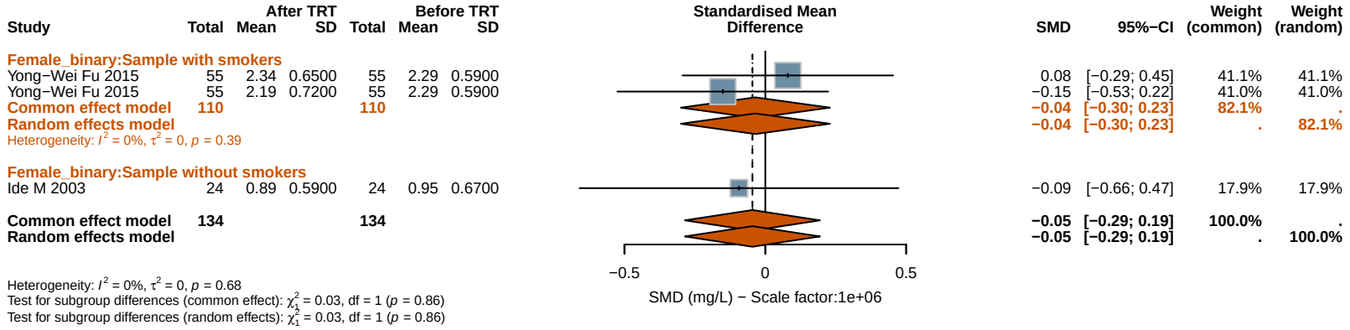
Cytokine: IL−1beta − Treatment: Standard



SMD: −0.05; 95%C.I.[−0.29; 0.19] P value for common effect= 0.7083

SMD: −0.05; 95%C.I.[−0.29; 0.19] P value for random effect= 0.7083

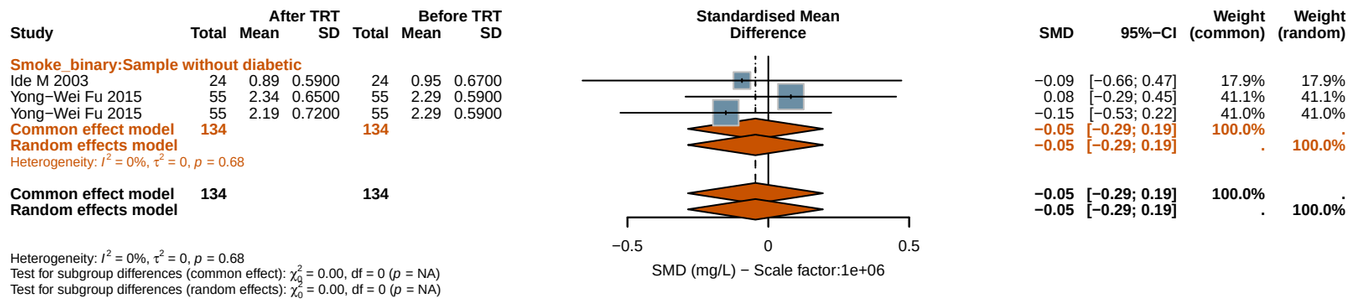
Cytokine: IL−1beta − Treatment: Standard



SMD: −0.05; 95%C.I.[−0.29; 0.19] P value for common effect= 0.7083

SMD: −0.05; 95%C.I.[−0.29; 0.19] P value for random effect= 0.7083

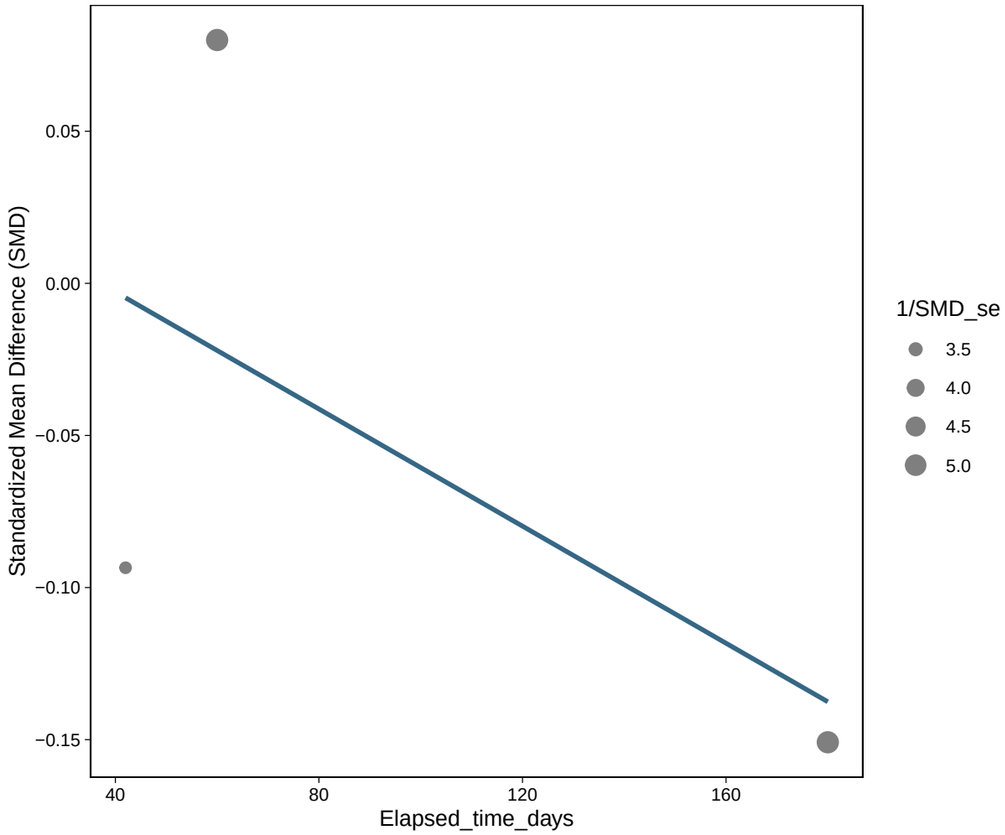
Cytokine: IL−1beta − Treatment: Standard



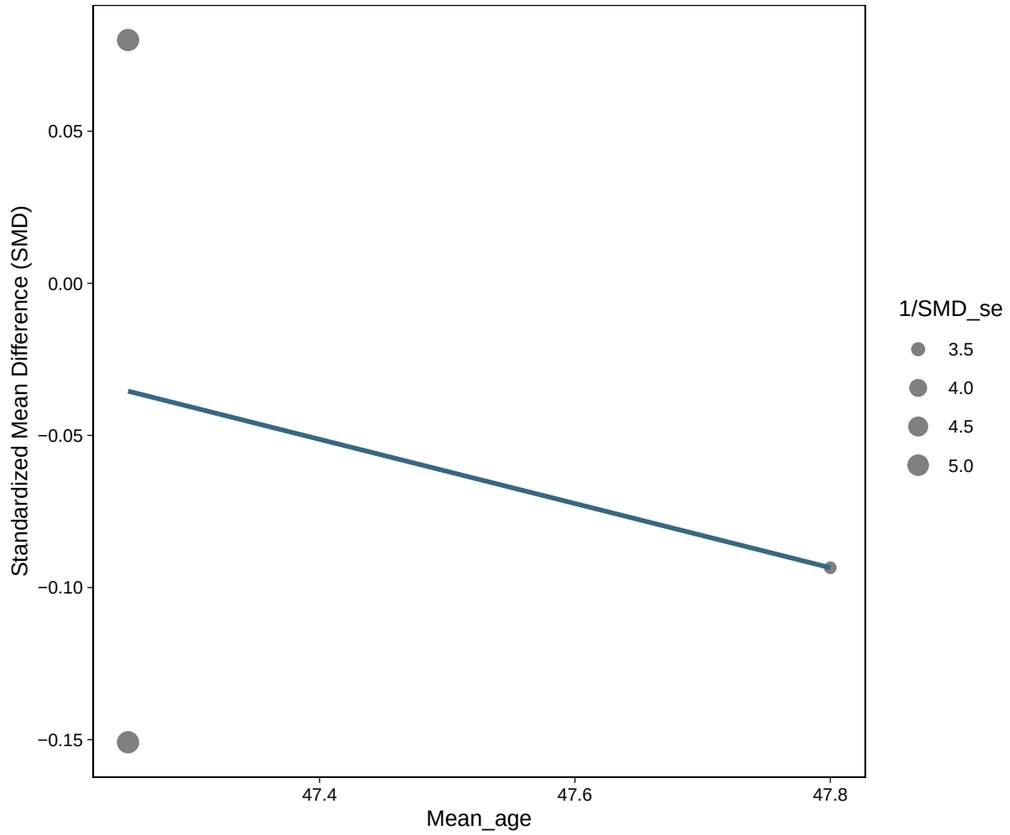
SMD: −0.05; 95%C.I.[−0.29; 0.19] P value for common effect= 0.7083

SMD: −0.05; 95%C.I.[−0.29; 0.19] P value for random effect= 0.7083

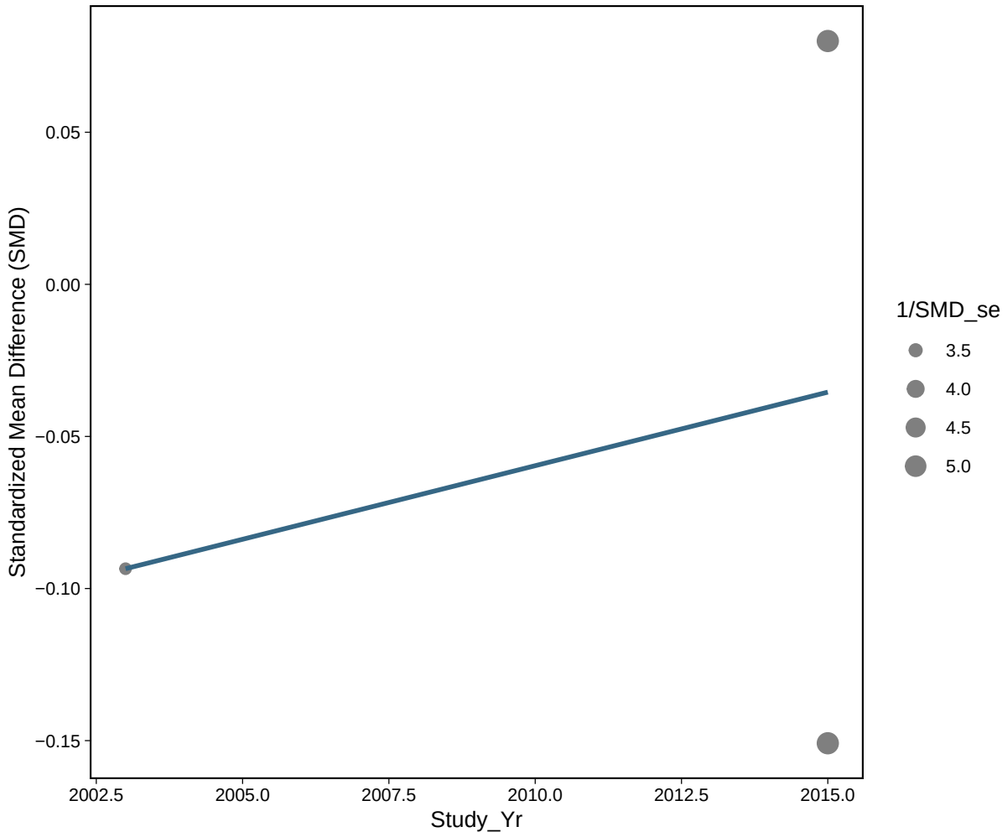
Meta−Regression for SMD on IL−1beta − Treatment: Standard



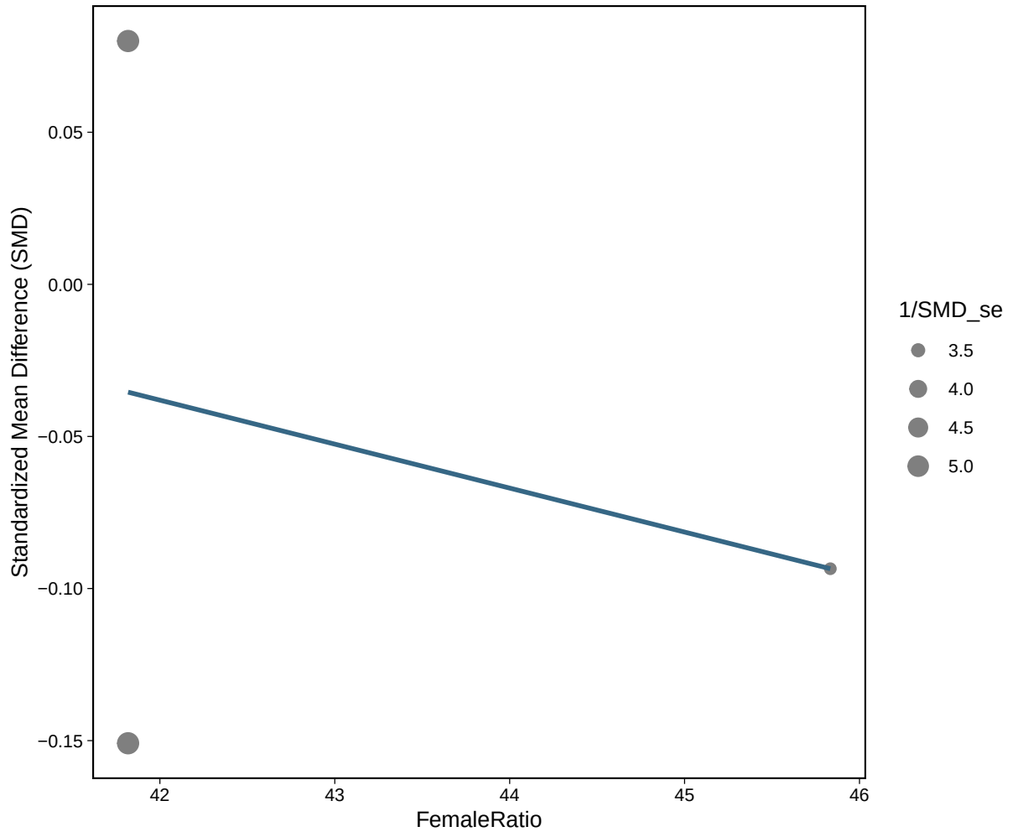
Meta−Regression: SMD ~ Elapsed_time_days
Slope: −0.001
P−value: 0.454
R²: 0



Meta−Regression: SMD ~ Mean_age
Slope: −0.106
P−value: 0.866
R²: 0



Meta−Regression: SMD ~ Study_Yr
Slope: 0.005
P−value: 0.866
R²: 0



Meta−Regression: SMD ~ FemaleRatio
Slope: −0.014
P−value: 0.866
R²: 0