Association of Serum ADA Levels in Pulmonary Tuberculosis: A Systematic Review and Meta-Analysis

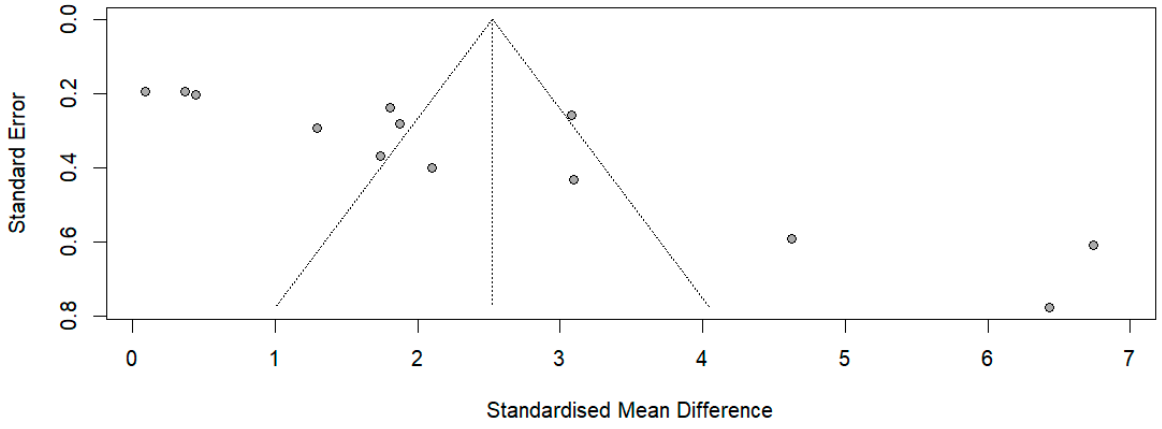
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Meta bias and Linear regression test of funnel plot asymmetry (PTB vs Other disease)

Test result: t = 5.42, df = 11, p-value = 0.0002
Bias estimate: 11.26 (SE = 2.08)

Details:
- multiplicative residual heterogeneity variance (tau^2 = 7.71)
- predictor: standard error
- weight: inverse variance
- reference: Egger et al. (1997), BMJ



> m.reg <- metareg(m1, Region)
> print(m.reg)

Mixed-Effects Model (k = 13; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 4.7802 (SE = 2.6376)
tau (square root of estimated tau^2 value): 2.1864
I^2 (residual heterogeneity / unaccounted variability): 98.15%
H^2 (unaccounted variability / sampling variability): 53.95
R^2 (amount of heterogeneity accounted for): 0.00%

Test for Residual Heterogeneity:
QE(df = 7) = 186.2703, p-val < .0001

Test of Moderators (coefficients 2:6):
QM(df = 5) = 3.8552, p-val = 0.5704

Model Results:

	estimate	se	zval	pval	ci.lb	ci.ub	
intrcpt	4.6263	2.2648	2.0427	0.0411	0.1874	9.0653	*
RegionMiddle East	-3.3315	2.5959	-1.2833	0.1994	-8.4194	1.7565	
RegionNorth Africa	-2.2101	2.7569	-0.8017	0.4227	-7.6135	3.1932	
RegionSouth America	-4.5331	3.1539	-1.4373	0.1506	-10.7146	1.6485	
RegionSouth Asia	-1.5454	2.5230	-0.6125	0.5402	-6.4904	3.3995	
RegionWest Asia	-0.8919	2.7723	-0.3217	0.7477	-6.3255	4.5417	

Signif. codes: 0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> m.reg <- metareg(m1, Method)
> print(m.reg)

Mixed-Effects Model (k = 13; tau^2 estimator: REML)

tau^2 (estimated amount of residual heterogeneity): 5.1175 (SE = 2.3687)
tau (square root of estimated tau^2 value): 2.2622
I^2 (residual heterogeneity / unaccounted variability): 98.26%
H^2 (unaccounted variability / sampling variability): 57.42
R^2 (amount of heterogeneity accounted for): 0.00%

Test for Residual Heterogeneity:
QE(df = 10) = 263.9335, p-val < .0001

Test of Moderators (coefficients 2:3):
QM(df = 2) = 0.1266, p-val = 0.9386

Model Results:

	estimate	se	zval	pval	ci.lb	ci.ub	
intrcpt	2.6353	0.7285	3.6174	0.0003	1.2075	4.0632	***
MethodImmunoassay	-0.2197	1.7721	-0.1240	0.9013	-3.6929	3.2535	
MethodPhotometric (Automated)	-0.8276	2.3886	-0.3465	0.7290	-5.5091	3.8539	

Signif. codes: 0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1