**Supplementary appendix 3 Publication Bias(Egger and Begger test)**

**1 Diabetes Mellitus**

Begg's Test

 adj. Kendall's Score (P-Q) = 2

 Std. Dev. of Score = 16.39

 Number of Studies = 13

 z = 0.12

 Pr > |z| = 0.903

 z = 0.06 (continuity corrected)

 Pr > |z| = 0.951 (continuity corrected)

Egger's test

 Std\_Eff | Coef. Std. Err. t P>|t| [95% Conf. Interval]

 slope | .6424208 .0870394 7.38 0.000 .4508483 .8339933

 bias | -.9434223 .5150112 -1.83 0.094 -2.076954 .1901098

**2 Male gender**

Begg's Test

 adj. Kendall's Score (P-Q) = -39

 Std. Dev. of Score = 37.86

 Number of Studies = 23

 z = -1.03

 Pr > |z| = 0.303

 z = 1.00 (continuity corrected)

 Pr > |z| = 0.316 (continuity corrected)

Egger's test

 Std\_Eff | Coef. Std. Err. t P>|t| [95% Conf. Interval]

 slope | -.0832018 .0068363 -12.17 0.000 -.0974188 -.0689848

 bias | .2321951 .2382795 0.97 0.341 -.2633343 .7277245

**3 Female**

Begg's Test

 adj. Kendall's Score (P-Q) = -36

 Std. Dev. of Score = 33.12

 Number of Studies = 21

 z = -1.09

 Pr > |z| = 0.277

 z = 1.06 (continuity corrected)

 Pr > |z| = 0.291 (continuity corrected)

Egger's test

 Std\_Eff | Coef. Std. Err. t P>|t| [95% Conf. Interval]

 slope | -.0475892 .0432277 -1.10 0.285 -.1380659 .0428875

 bias | .4819685 .3792735 1.27 0.219 -.3118601 1.275797

**4 Smoking**

Begg's Test

 adj. Kendall's Score (P-Q) = 9

 Std. Dev. of Score = 11.18

 Number of Studies = 10

 z = 0.80

 Pr > |z| = 0.421

 z = 0.72 (continuity corrected)

 Pr > |z| = 0.474 (continuity corrected)

Egger's test

 Std\_Eff | Coef. Std. Err. t P>|t| [95% Conf. Interval]

 slope | .0001674 .0445511 0.00 0.997 -.1025676 .1029025

 bias | .230653 .283791 0.81 0.440 -.4237702 .8850762

**5 Hypertention**

Begg's Test

 adj. Kendall's Score (P-Q) = 10

 Std. Dev. of Score = 14.58

 Number of Studies = 12

 z = 0.69

 Pr > |z| = 0.493

 z = 0.62 (continuity corrected)

 Pr > |z| = 0.537 (continuity corrected)

Egger's test

 Std\_Eff | Coef. Std. Err. t P>|t| [95% Conf. Interval]

 slope | .16955 .0556507 3.05 0.012 .0455525 .2935474

 bias | .4958707 .7234022 0.69 0.509 -1.11597 2.107711