



Fig S1. The Funnel plot of publication bias. a: Funnel plot of publication bias on incidence of GDM. b: Funnel plot of publication bias on FBG. c: Funnel plot of publication bias on insulin concentration. d: Funnel plot of publication bias on HOMA-IR. e: Funnel plot of publication bias on QUICKI.

a)

Begg's Test

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adj. Kendall's Score (P-Q) = -12
Std. Dev. of Score = 9.59
Number of Studies = 9
z = -1.25
Pr > |z| = 0.211
z = 1.15 (continuity corrected)
Pr > |z| = 0.251 (continuity corrected)

```

Egger's test

Std_Eff	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
slope	.3829851	.3391401	1.13	0.296	-.4189538	1.184924
bias	-3.640788	2.190606	-1.66	0.140	-8.820748	1.539172

b)

Begg's Test

```

adj. Kendall's Score (P-Q) = -6
Std. Dev. of Score = 8.08
Number of Studies = 8
z = -0.74
Pr > |z| = 0.458
z = 0.62 (continuity corrected)
Pr > |z| = 0.536 (continuity corrected)

```

Egger's test

Std_Eff	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
slope	.1406133	.4903172	0.29	0.784	-1.05915	1.340376
bias	-1.450192	1.461322	-0.99	0.359	-5.025918	2.125534

c)

Begg's Test

```

adj. Kendall's Score (P-Q) = -6
Std. Dev. of Score = 4.08
Number of Studies = 5
z = -1.47
Pr > |z| = 0.142
z = 1.22 (continuity corrected)
Pr > |z| = 0.221 (continuity corrected)

```

Egger's test

Std_Eff	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
slope	.8674022	.5203942	1.67	0.194	-.7887244	2.523529
bias	-7.194607	2.807097	-2.56	0.083	-16.12804	1.738827

d)

Begg's Test

```

adj. Kendall's Score (P-Q) = -4
Std. Dev. of Score = 4.08
Number of Studies = 5
z = -0.98
Pr > |z| = 0.327
z = 0.73 (continuity corrected)
Pr > |z| = 0.462 (continuity corrected)

```

Egger's test

Std_Eff	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
slope	.6202128	.4295205	1.44	0.244	-.7467132	1.987139
bias	-5.677548	2.329184	-2.44	0.093	-13.09005	1.734955

e)

Begg's Test

```

adj. Kendall's Score (P-Q) = -2
Std. Dev. of Score = 4.08
Number of Studies = 5
z = -0.49
Pr > |z| = 0.624
z = 0.24 (continuity corrected)
Pr > |z| = 0.806 (continuity corrected)

```

Egger's test

Std_Eff	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
slope	.0610372	.1687372	0.36	0.742	-.4759599	.5980344
bias	-.9795232	1.27752	-0.77	0.499	-5.045163	3.086116

f)

Begg's Test

```

adj. Kendall's Score (P-Q) = -2
Std. Dev. of Score = 4.08
Number of Studies = 5
z = -0.49
Pr > |z| = 0.624
z = 0.24 (continuity corrected)
Pr > |z| = 0.806 (continuity corrected)

```

Egger's test

Std_Eff	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
slope	.014654	.3020454	0.05	0.964	-.9465893	.9758973
bias	-.3727339	2.297034	-0.16	0.881	-7.682922	6.937455

Fig.S2. The Begg's and Egger's test of publication bias of glucose metabolism parameters. a) Fasting blood glucose; b) Gestational diabetes mellitus (GDM) incidence; c) Insulin concentration; d) homeostasis model assessment of insulin resistance (HOMA-IR); e) 1-h OGTT; f) 2-h OGTT