

Supplementary Figure Legends

Supplementary Figure 1: Risk of bias assessment

Supplementary Figure 2: Forest plot displaying mean difference for left ventricular ejection fraction (LVEF) with intracoronary thrombolysis or placebo in ST-elevation myocardial infarction.

Squares and diamonds= weight mean difference. Lines=95% confidence intervals

Supplementary Figure 3: Forest plot displaying relative risk for heart failure (HF) with intracoronary thrombolysis or placebo in ST-elevation myocardial infarction.

Squares and diamonds= risk ratios. Lines=95% confidence intervals

Supplementary Figure 4: Forest plot displaying relative risk for mortality with intracoronary thrombolysis or placebo in ST-elevation myocardial infarction.

Squares and diamonds= risk ratios. Lines=95% confidence intervals

Supplementary Figure 5: Forest plot of major bleeding with intracoronary thrombolysis or placebo in ST-elevation myocardial infarction.

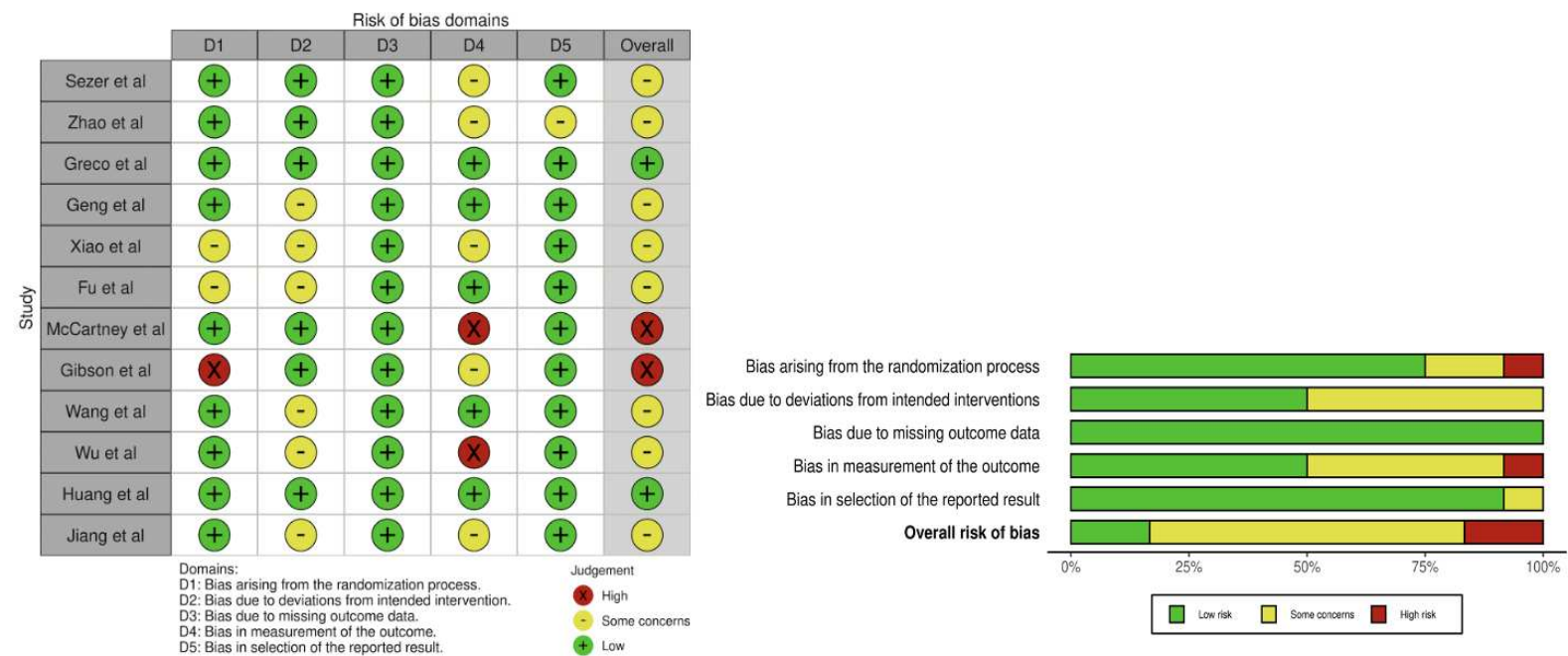
Squares and diamonds= risk ratios. Lines=95% confidence intervals

Supplementary Figure 6: Forest plot of minor bleeding with intracoronary thrombolysis or placebo in ST-elevation myocardial infarction.

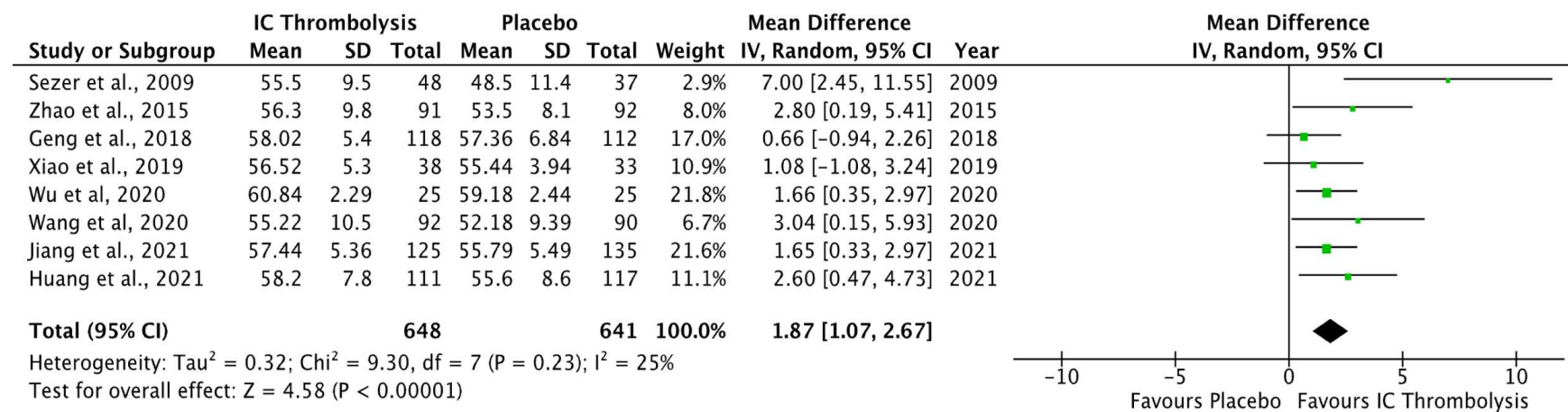
Squares and diamonds= risk ratios. Lines=95% confidence intervals

Supplementary Figure 7: Funnel Plot of SE by log risk ratio, for assessment of publication bias. Open circles represent studies included in the present meta-analysis.

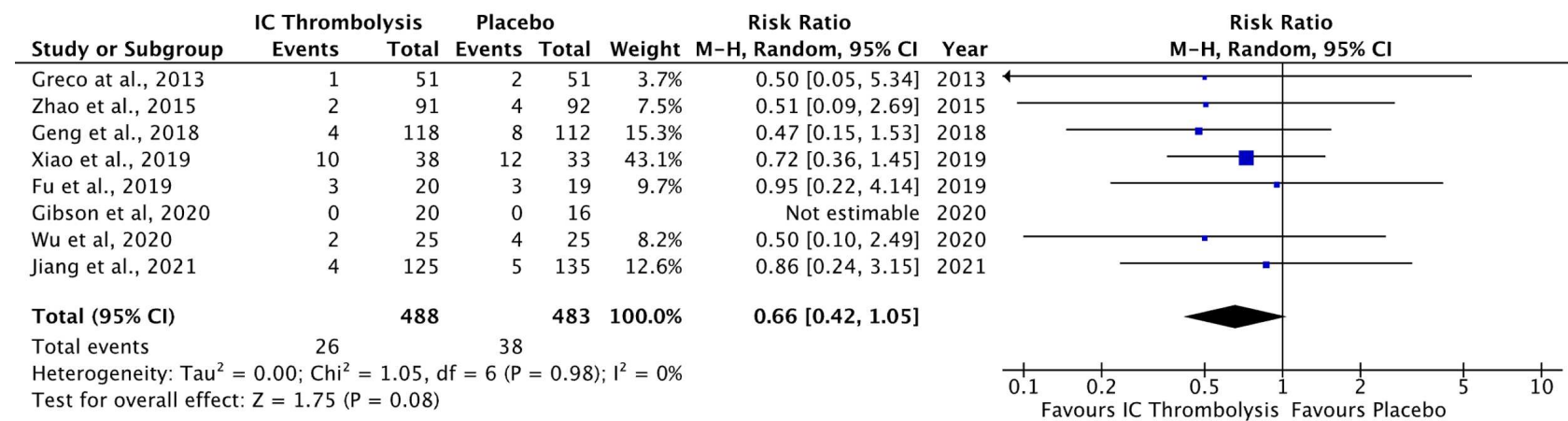
Supplementary Figure 1



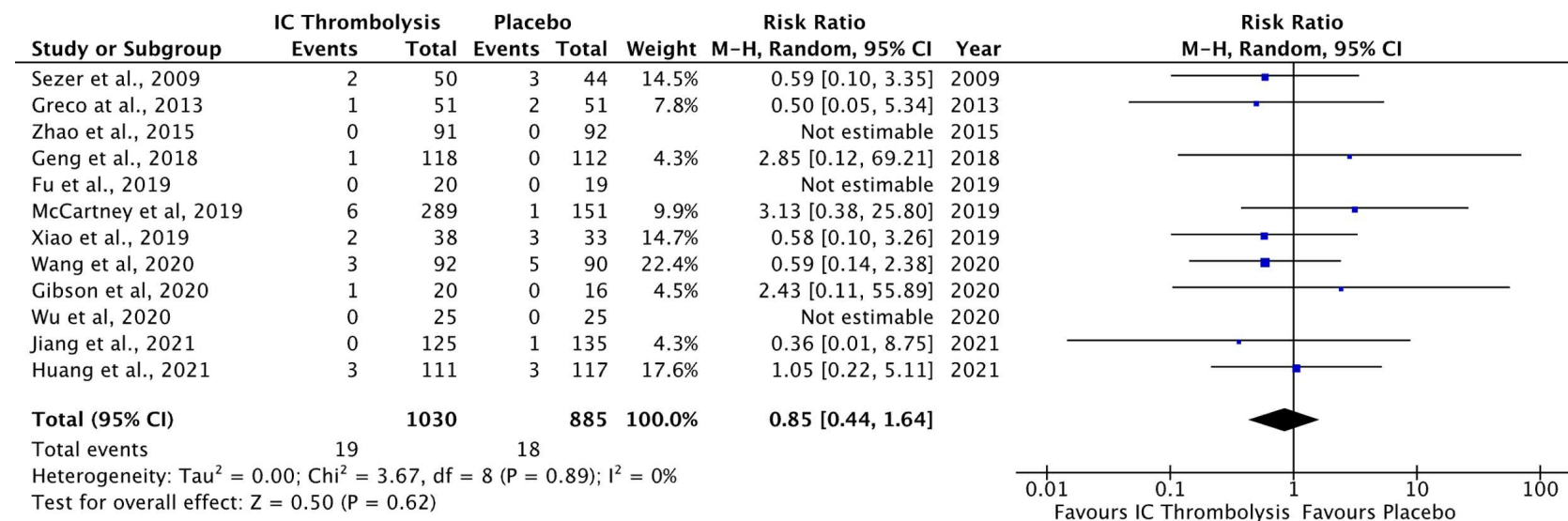
Supplementary Figure 2



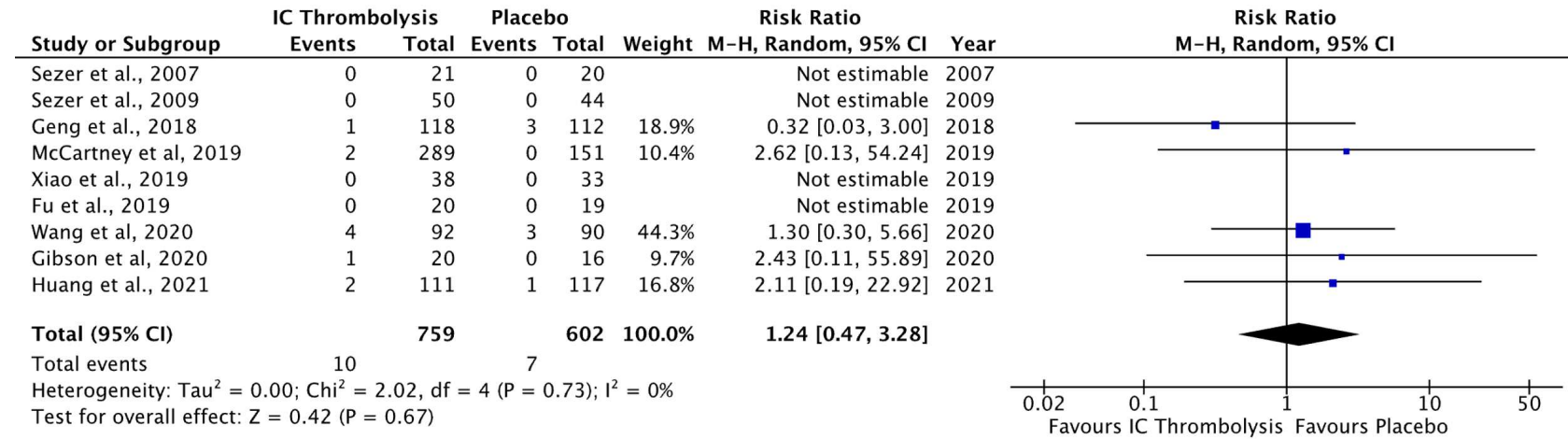
Supplementary Figure 3



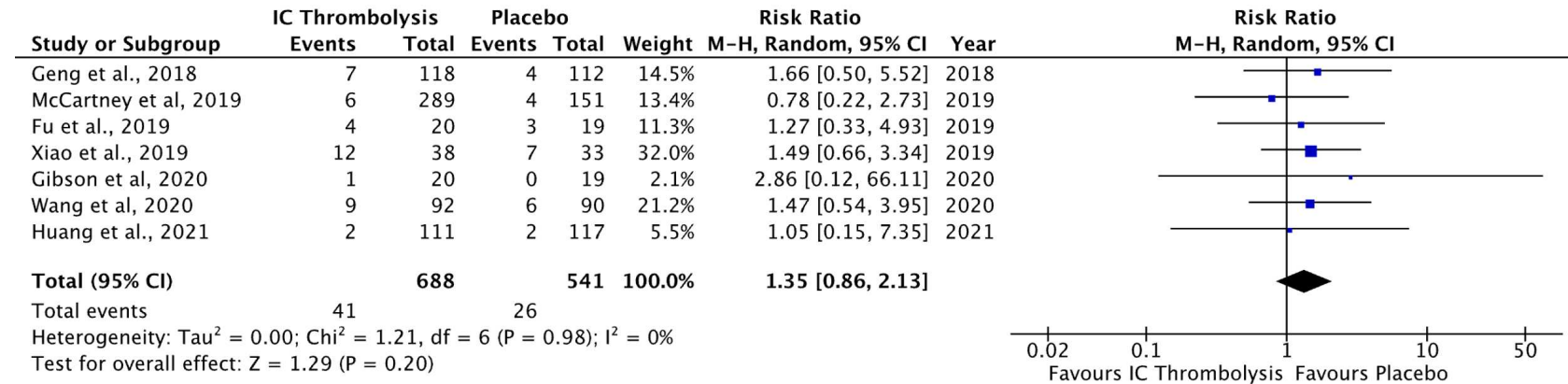
Supplementary Figure 4



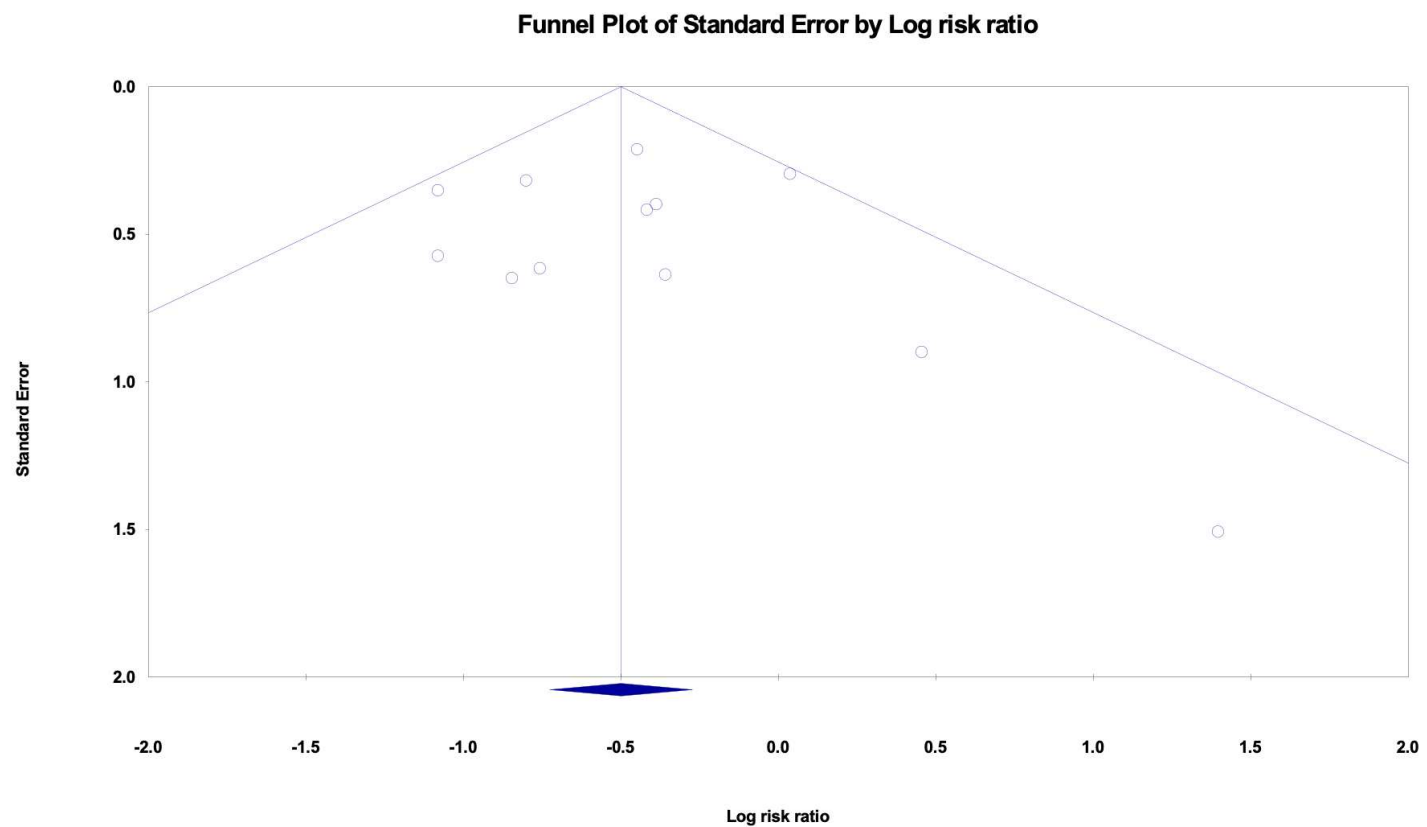
Supplementary Figure 5



Supplementary Figure 6



Supplementary Figure 7



Supplementary Table Legends

Supplementary Table 1: Individual components of MACE as defined by each individual study. Abbreviations, MACE: major adverse clinical events, MI: myocardial infarction, TVR: target vessel revascularisation

*Includes repeat hospitalisation

**Includes new onset HF and/or hospitalisation for HF

Supplementary Table 2: Summary of outcomes in studies investigating intracoronary thrombolysis for STEMI patients. Abbreviations, TG: thrombolysis group, CG: control group, MACE: major adverse clinical events, LVEF: left ventricular ejection fraction, TIMI: thrombolysis in myocardial infarction, TMPG: TIMI myocardial perfusion grade, CTFC: corrected TIMI frame count, NR: not reported

Supplementary Table 1

Study	Mortality	Cardiac Mortality	MI/Reinfarction	Angina	TVR	Stent thrombosis	Heart Failure	Malignant Arrhythmia	Stroke
Sezer et al	No	Yes	Yes	No	Yes	No	No	No	No
Zhao et al	Yes	No	No	Yes	Yes	No	Yes	No	Yes
Greco et al	Yes	No	Yes	No	No	No	Yes**	No	No
Geng et al	No	Yes	Yes	Yes	No	Yes	Yes	No	No
Xiao et al	No	Yes	No	No	Yes	No	Yes	Yes	No
Fu et al	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
McCartney et al	No	Yes	Yes	No	No	No	Yes	No	No
Gibson et al*	Yes	No	Yes	No	No	No	Yes	Yes	No
Wang et al	No	Yes	Yes	No	Yes	No	No	No	No
Wu et al	No	Yes	Yes	No	Yes	No	Yes	Yes	No
Huang et al	No	Yes	Yes	No	Yes	No	No	No	No
Jiang et al	No	Yes	Yes	Yes	No	Yes	Yes	No	No

Supplementary Table 2

Study	Group	MACE (N =)	LVEF (mean \pm SD)*	Heart Failure (N =)	Mortality (N =)	Major Bleeding (N =)	Minor Bleeding (N =)	TIMI flow grade >3 (N =)	TMPG > 3 (N =)	ST-resolution (N =)	CTFC (mean \pm SD)
Sezer et al	TG	4	55.5 \pm 9.5	NR	2	0	NR	46	20	47	29.9 \pm 9.2
	CG	5	48.5 \pm 11.4	NR	3	0	NR	39	7	37	31.2 \pm 8.7
Zhao et al	TG	4	56.3 \pm 9.8	2	0	NR	NR	83	NR	85	21.2 \pm 10.7
	CG	12	53.5 \pm 8.1	4	0	NR	NR	71	NR	76	29.6 \pm 15.3
Greco et al	TG	3	NR	1	1	NR	NR	46	35	42	19 \pm 15
	CG	11	NR	2	2	NR	NR	34	24	28	25 \pm 17
Geng et al	TG	10	58 \pm 5.4	4	1	1	7	109	NR	105	NR
	CG	14	57.3 \pm 6.8	8	0	3	4	96	NR	89	NR
Xiao et al	TG	17	53.2 \pm 5.5	10	2	0	12	37	35	NR	23.05 \pm 5.35
	CG	23	51.6 \pm 6	12	1	0	7	29	24	NR	26.51 \pm 4.95
Fu et al	TG	3	52.4 \pm 12.2	3	0	0	4	17	16	15	21.7 \pm 10.2
	CG	6	49.9 \pm 11.5	3	0	0	3	10	9	14	28.59 \pm 9.94
McCartney et al	TG	30	NR	NR	3	2	6	227	70	NR	NR
	CG	15	NR	NR	143	0	4	125	43	NR	NR
Gibson et al	TG	2	NR	0	1	1	1	17	9	NR	NR

	CG	0	NR	0	0	0	0	15	2	NR	NR
Wang et al	TG	10	55.2±10.5	NR	3	4	9	82	53	52	19.6±9.1
	CG	20	52.2±9.4	NR	5	3	6	72	35	35	22.9±10.2
Wu et al	TG	3	60.9±2.3	2	0	NR	NR	22	21	24	16.7±7.3
	CG	7	59.2±2.4	4	0	NR	NR	20	10	16	19.1±6.7
Huang et al	TG	3	58.2±7.8	NR	3	2	2	101	38	64	27.1±14.2
	CG	2	55.6 ± 8.6	NR	2	1	2	90	26	45	34.6±18.3
Jiang et al	TG	8	57.4±5.4	4	0	NR	NR	123	NR	114	NR
	CG	13	55.8±5.5	5	1	NR	NR	130	NR	109	NR