Supplementary Figures

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Supplemental data 1. Search strategy

	Search ("intravascular ultrasound"[Title/Abstract]) AND ("drug eluting
PUBMED	stent"[Title/Abstract])
	Filters: Publication date from 2005/01/01 to 2015/12/31
	'intravascular ultrasound' AND 'drug-eluting stent' in the title, abstract
Cochrane	or keywords
	Limitation; Reviews and trials, publication year 2005~2015
	'intravascular ultrasound':ta,ab AND 'drug-eluting stent':ta,ab AND
EMBASE	[2005-2015]/py

Supplemental figure 1. Risk of bias assessment

Green, low risk of bias; Yellow, unclear; Red, high risk of bias

	Adequate sequence generation?	Allocation concealment?	Blinding?	Incomplete outcome data addressed?	Free of selective reporting?	Free of other bias?
(2013) RESET IVUS	+	+	-	+	+	+
(2015) CTO-IVUS	+	+	•	+	+	+
(2015) IVUS-XPL	+	+	-	+	+	+

Supplemental figure 2. Study-level meta-analysis

a. Major cardiovascular adverse events

	IVU:	S	Angi	io		Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	Year	M-H, Random, 95% CI
(2013) RESET IVUS	1	269	3	274	20.0%	0.34 [0.04, 3.24]	2013	
(2015) CTO-IVUS	0	201	4	201	12.0%	0.11 [0.01, 2.05]	2014	
(2015) IVUS-XPL	4	700	7	700	68.0%	0.57 [0.17, 1.94]	2015	
Total (95% CI)		1170		1175	100.0%	0.42 [0.15, 1.16]		-
Total events	5		14					
Heterogeneity: Tau ² =	0.00; Ch	$ni^2 = 1.$	12, df =	2 (P =	0.57); I ²	= 0%		0.01 0.1 1 10 100
Test for overall effect:	Z = 1.67	P = 0	.09)					Favours IVUS Favours Angiograph

b. Cardiac death

	IVU:	S	Angi	io		Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	Year	M-H, Random, 95% CI
(2013) RESET IVUS	0	269	1	274	14.0%	0.34 [0.01, 8.30]	2013	•
(2015) CTO-IVUS	0	201	2	201	15.6%	0.20 [0.01, 4.14]	2014	
(2015) IVUS-XPL	3	700	5	700	70.4%	0.60 [0.14, 2.50]	2015	
Total (95% CI)		1170		1175	100.0%	0.47 [0.14, 1.55]		-
Total events	3		8					
Heterogeneity: Tau2 =	0.00; Ch	$ni^2 = 0.$	46, df =	2 (P =	0.79); I ²	= 0%		0.01 0.1 1 10 100
Test for overall effect:	Z = 1.25	S(P=0)).21)					Favours IVUS Favours Angiograph

c. Myocardial infarction

	IVU:	S	Angi	io		Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	Year	M-H, Random, 95% CI
(2013) RESET IVUS	0	269	2	247	34.5%	0.18 [0.01, 3.81]	2013	-
(2015) CTO-IVUS	0	201	2	201	34.5%	0.20 [0.01, 4.14]	2014	
(2015) IVUS-XPL	0	700	1	700	31.0%	0.33 [0.01, 8.17]	2015	-
Total (95% CI)		1170		1148	100.0%	0.23 [0.04, 1.35]		
Total events	0		5					
Heterogeneity: Tau2 =	0.00; Ch	$ni^2 = 0.$	08, df =	2 (P =	0.96); I ²	= 0%		0.01 0.1 1 10 100
Test for overall effect:	Z = 1.63	P = 0).10)					Favours IVUS Favours Angiograph

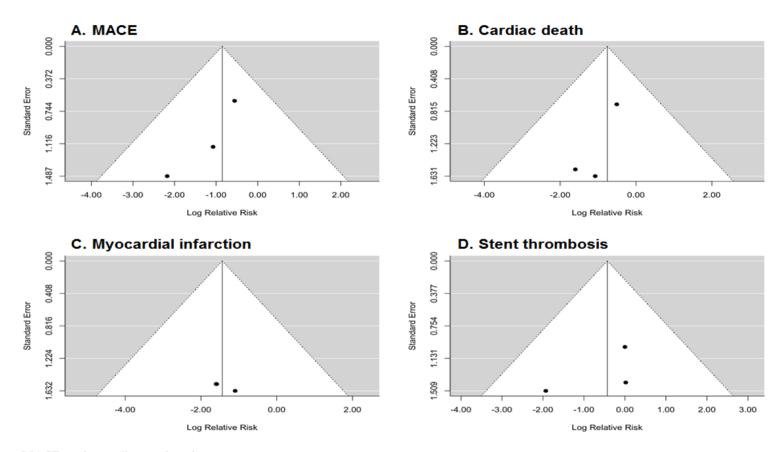
d. Stent thrombosis

	IVU:	S	Angi	io		Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	Year	M-H, Random, 95% CI
(2013) RESET IVUS	1	269	1	274	25.8%	1.02 [0.06, 16.20]	2013	
(2015) CTO-IVUS	0	201	3	201	22.6%	0.14 [0.01, 2.75]	2014	
(2015) IVUS-XPL	2	700	2	700	51.6%	1.00 [0.14, 7.08]	2015	
Total (95% CI)		1170		1175	100.0%	0.65 [0.16, 2.64]		-
Total events	3		6					
Heterogeneity: Tau2 =	0.00; Ch	$ni^2 = 1.$	36, df =	2 (P =	0.51); I ²	= 0%		0.01 0.1 1 10 100
Test for overall effect:	Z = 0.61	I(P = 0)).54)					Favours IVUS Favours Angiograph

The relative size of square is proportional to the statistical weight of each trial.

CI, confidence interval; IVUS, intravascular ultrasound; M-H, Mantel-Haenzel estimates

Supplemental figure 3. Funnel plots of study-level meta-analysis



MACE, major cardiovascular adverse events