

Table S1. Literature search strategy.**A. Literature search strategy for EMBASE**

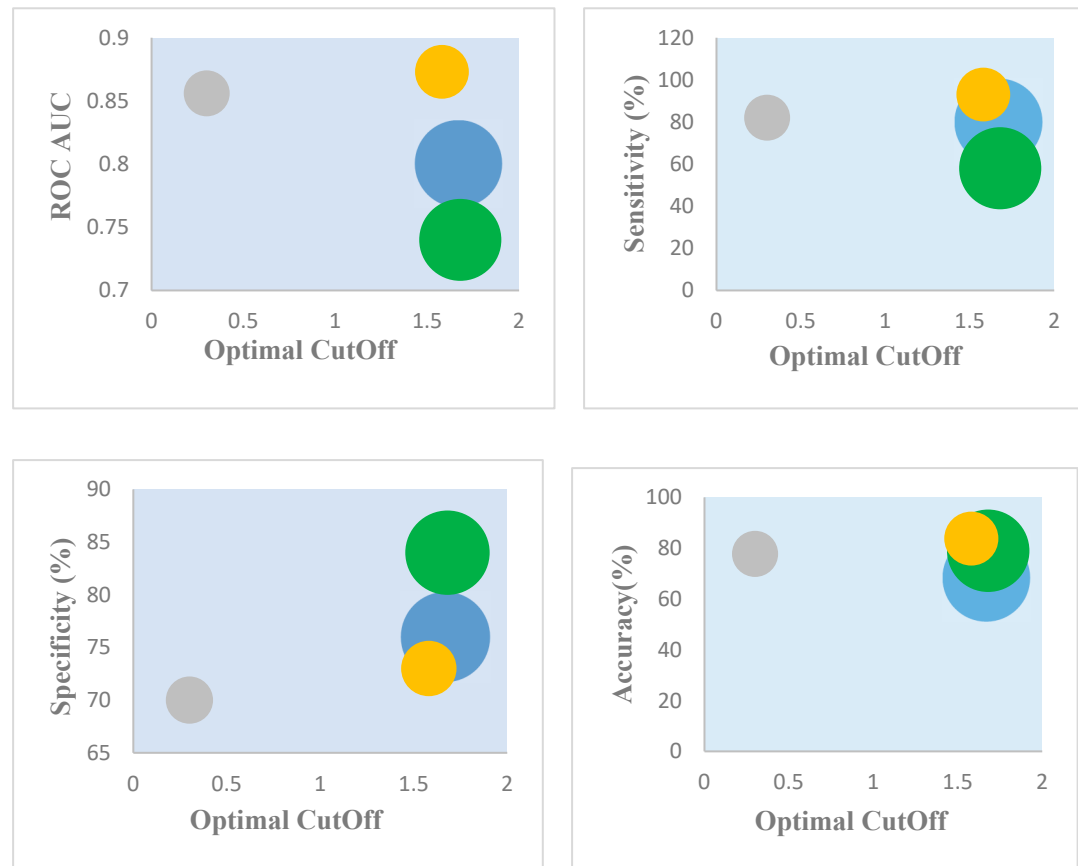
#	Searches	result
#1	Contrast Echocardiography.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word, candidate term word]	5500
#2	(heart or cardia* or myocardial).mp.	2594229
#3	((heart or cardia* or myocardial) adj3 Infarc*).mp.	419683
#4	((heart or cardia* or myocardial) adj3 ischemia).mp.	115513
#5	event*.mp.	1404367
#6	death.mp.	1245477
#7	Mortality.mp.	1461027
#8	progno*.mp.	1128005
#9	diagno*.mp.	6309898
#10	predict*.mp.	2210371
#11	#8 or #9 or #10	8359526
#12	#5 or #6 or #7	3527209
#13	#1 and #2	4836
#14	#3 or #4	494270
#15	#14 and #13	1484
#16	#11 and #12	1223581
#17	#15 and #16	230
#18	limit 17 to (human and english language)	201

mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word, candidate term word

B. Literature search strategy for Pubmed

#	Searches	Results
#1	((("myocardial infarction"[Mesh]) OR "myocardial ischemia"[Mesh])	428,229
#2	((("myocardial infarction"[Text Word]) OR "myocardial ischemia"[Text Word]))	287,401
#3	#1 OR #2	485,989
#4	"Contrast Echocardiography"[text word]	2,853
#5	"heart"[text word] or "cardia*"[text word] or "myocardial"[text word]	1,723,610
#6	#4 AND #5	2,444
#7	"event*"[text word] or "Mortality"[text word] or "death"[text word]	2,536,683
#8	"progno*"[text word] or "diagno*"[text word] or "predict*"[text word]	6,480,915
#9	#7 AND #8	854,412
#10	#3 AND #6 AND #9	126
#11	animals[MeSH Terms]	23,237,606
#12	humans[MeSH Terms]	18,561,638
#13	#11 NOT #12	4,712,846
#14	#10 NOT #13	121

Figure S1. Predictive Value and Accuracy of MCE in patients after AMI.



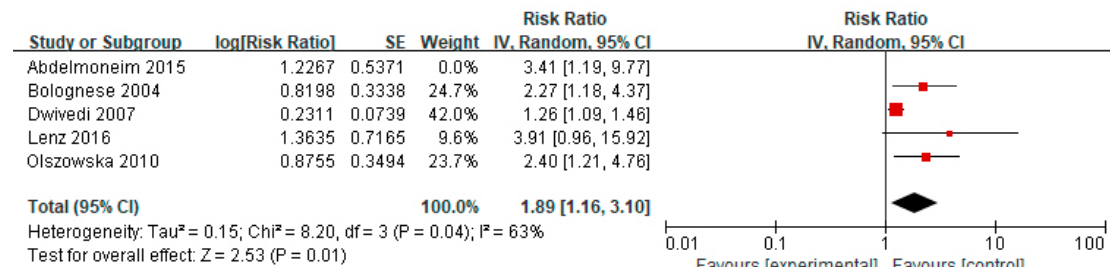
*The sizes of the bubbles indicate the number of patients. AUC: area under the curve; ROC: receiver-operating characteristic.

Publication	semiquantitative scoring system	Optimal CutOff	ROC AUC	Sensitivity (%)	Specificity (%)	Accuracy(%)
Dwivedi et al	1/2/3	1.67	0.8	80	76	68.4
Olszowska et al	1/2/3	1.68	0.74	58	84	79
Abdelmoneim et al	1/2/3	1.58	0.873	93	73	83.8
Lenz et al	0/1/2	0.3	0.856	82	70	77.8
Pooled parameters	/	/	0.84	0.80	0.78	/
Pooled 95%CI	/	/	0.80-0.87	0.64-0.90	0.69-0.85	/

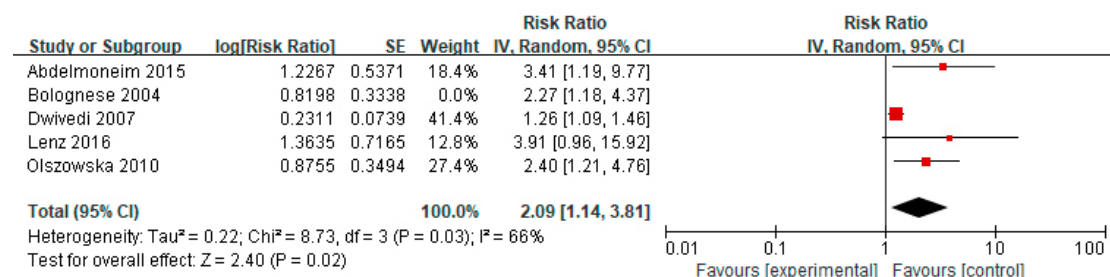
Table S2. Forrest Plots for sensitivity analysis for pooled adjusted RR, performed by using a leave-one-out of the weight of each study.

A.

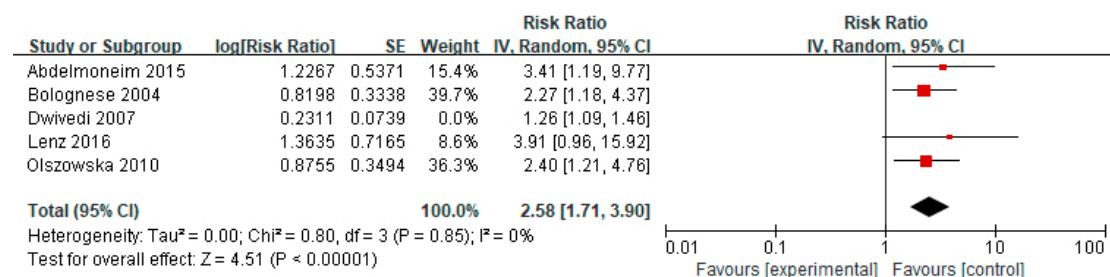
1 removal of the study by Abdelmoneim *et al.*



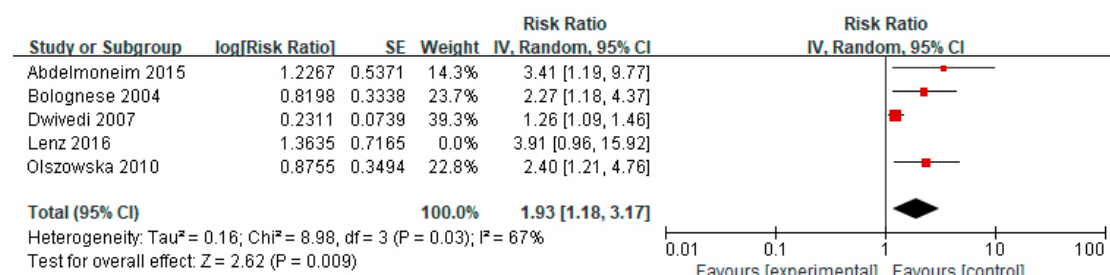
2 removal of the study by Bolognese *et al.*



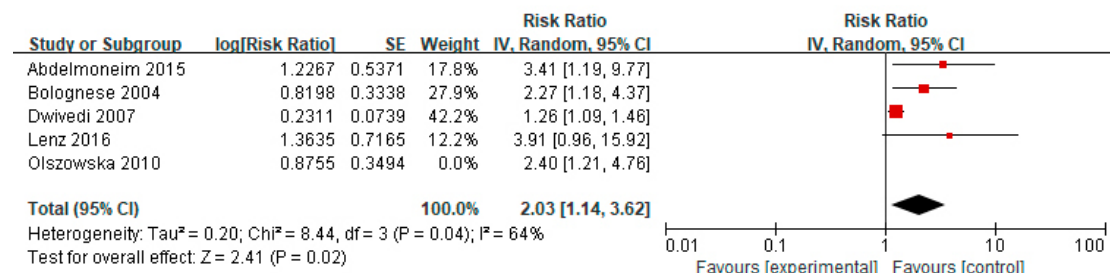
3 removal of the study by Dwivedi *et al.*



4 removal of the study by Lenz *et al.*

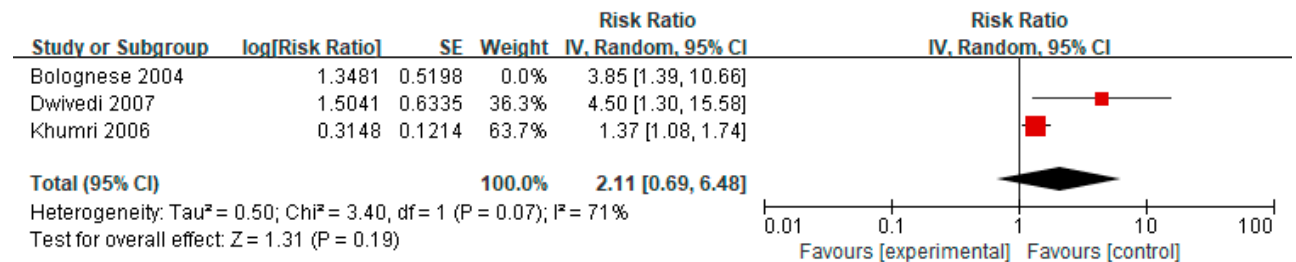


5 removal of the study by Olszowska *et al.*

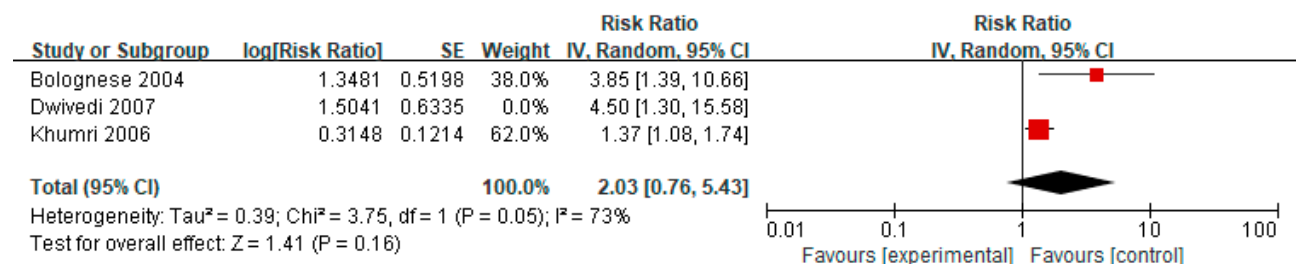


B.

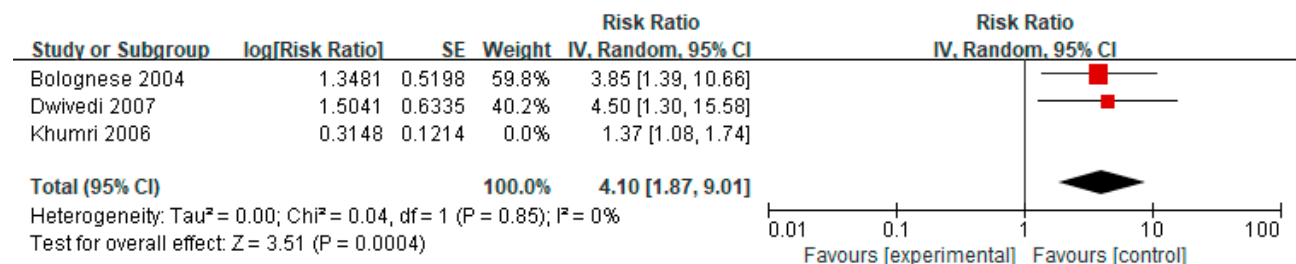
1 removal of the study by Bolognese *et al.*



2 removal of the study by Dwivedi *et al.*



3 removal of the study by Khumri *et al.*



A. total cardiac events and B. hard cardiac events. RR = risk ratio; CI = confidence interval; SE = standard error of the hazard ratio.

Table S3. Quality Assessment.

Study	Selection			Comparability		Outcome		Quality (Total points)
	Representativeness of exposed cohort	Selection of the non- exposed cohort	Ascertainment of exposure	Outcome demonstration at start	Assessment of outcome	Follow-up long enough for outcome to occur	Adequacy of follow- up	
Bolognese L <i>et al.</i>	1	1	1	1	2	1	1	Good(9)
Khumri TM <i>et al.</i>	1	1	1	1	2	1	1	Good(9)
Dwivedi <i>et al</i>	1	1	1	1	2	1	1	Good(9)
Olszowska <i>et al.</i>	1	1	1	1	2	0	1	Good(8)
Abdelmoneim <i>et al.</i>	0	1	1	1	2	1	0	Good(7)
Lenz <i>et al.</i>	0	1	1	1	2	1	1	Good(8)

A. Newcastle-Ottawa scale for included studies. The Newcastle-Ottawa Scale (NOS) evaluates the quality of included studies based on three parts: selection, comparability and outcome. The full score for each part is 4, 2, 3, respectively, and the maximum total score is 9.

Study	Sonographers blinded to outcome	Prognostic factor defined	appropriate cut-off points	Prognostic factor measurement	Outcome described	adequacy of the analysis
Bolognese L <i>et al.</i>	YES	YES	NO	YES	YES	YES
Khumri TM <i>et al.</i>	YES	YES	NO	YES	YES	YES
Dwivedi <i>et al.</i>	YES	YES	YES	YES	YES	YES
Olszowska <i>et al.</i>	N/A	YES	YES	YES	YES	YES
Abdelmoneim <i>et al.</i>	YES	YES	YES	YES	YES	YES
Lenz <i>et al.</i>	YES	YES	YES	YES	YES	YES

B. Quality data for eligible data sets. N/A = not available