

Supplementary Information

Risk factors for cardiogenic shock incidence and mortality after acute myocardial infarction: A systematic review and meta-analysis

Mailikezhati Maimaitiming^{1,2}, Siwen Li^{1,2}, Kepei Huang^{1,2}, Mulatijiang Maimaitiming³, Feng Liu⁴, Sidney C. Smith, Jr.⁵, Yinzi Jin^{1,2*}, Zhi-Jie Zheng^{1,2}

1 Department of Global Health, School of Public Health, Peking University, Beijing, China

2 Institute for Global Health and Development, Peking University, Beijing, China

3 Kizilsu Kirgiz Autonomous Prefecture People's Hospital, Atushi, Xinjiang, China

4 Suzhou Kowloon Hospital, School of Medicine Shanghai Jiaotong University, Suzhou, Jiangsu, China

5 Division of Cardiology, School of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA

***Correspondence to:**

Yinzi Jin, PhD, Department of Global Health, School of Public Health, Peking University, 38 Xue Yuan Road, Haidian District, Beijing 100191, China. E-mail: yzjin@bjmu.edu.cn

Senior Author:

Zhi-Jie Zheng, MD, PhD, Department of Global Health, School of Public Health, Peking University, 38 Xue Yuan Road, Haidian District, Beijing 100191, China. E-mail: zhengzj@bjmu.edu.cn

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Supplementary Table 1: Search strategy on PubMed and Embase databases

Database	Search modes
PubMed	(((acute myocardial infarction[MeSH Term]) AND (cardiogenic shock[MeSH Term])) AND (((prevalence[MeSH Term]) OR (incidence[MeSH Term])) OR (epidemiology[MeSH Term]))) AND (article[Publication type])
Embase	(‘acute myocardial infarction’:ab,ti) AND (‘cardiogenic shock’:ab,ti) AND (‘prevalence’:ab,ti OR ‘incidence’:ab,ti OR ‘epidemiology’:ab,ti) AND (‘article’/it)

Supplementary Table 2. Subgroup analysis

Study design		No. of studies	Heterogeneity		Effect size	P value*
			P value	I ² (%)	OR (95% CI)	
AMI-CS development						
Advanced age	Cross-sectional	6	2.32 x10 ⁻¹⁸	97.27	1.05 (1.03-1.08)	1.07 x10 ⁻⁸
	Case-control	1	-	-	-	
In-hospital death						
Female	Cross-sectional	2	1.00	0.00	1.16 (1.15-1.17)	0.01
	Retrospective cohort	4	0.40	0.00	1.15 (1.12-1.19)	
	Case-control	1	-	-	-	
Advanced age	Cross-sectional	4	1.00 x10 ⁻⁴⁰	99.98	1.97 (1.45-2.49)	0.91
	Retrospective cohort	4	1.09 x10 ⁻²⁸	99.96	1.74 (0.82-2.65)	
	Case-control	1	-	-	-	
30-day death						
Female	Cross-sectional	3	0.37 x10 ⁻²	82.09	1.24 (0.77-1.71)	0.75
	Case-control	1	-	-	-	
Advanced age	Cross-sectional	4	4.54 x10 ⁻¹⁶	95.96	1.08 (1.03-1.14)	0.41
	Case-control	2	1.40 x10 ⁻³	90.24	1.41 (0.63-2.19)	
STEMI	Cross-sectional	2	2.13 x10 ⁻¹⁰	97.39	2.20 (-0.15-4.55)	0.87
	Case-control	1	-	-	-	
1-year death						
Female	Retrospective cohort	3	1.43 x10 ⁻⁵	90.82	1.12 (0.80-1.43)	0.49
	Case-control	1	-	-	-	
Advanced age	Cross-sectional	1	-	-	-	2.09 x10 ⁻⁶
	Retrospective cohort	2	0.28	14.25	1.04 (1.01-1.07)	

*Q Test of group differences.

Note: AMI, acute myocardial infarction; AMI-CS, cardiogenic shock after acute myocardial infarction; CI, confidence interval; CS, cardiogenic shock; OR, odds ratio; STEMI, ST-segment elevation myocardial infarction.

Supplementary Table 3. Sensitive analysis

	No. of studies	Heterogeneity		Effect size	
		<i>P</i> value	I ² (%)	OR (95% CI)	<i>P</i> value
AMI-CS development					
Female	3	0.55	0.00	1.10 (1.09-1.11)	1.00 x10 ^{^-12}
Advanced age	2	1.00	0.00	1.03 (1.03-1.03)	1.00 x10 ^{^-14}
STEMI	2	1.54 x10 ^{^-4}	93.04	2.12 (1.68-2.58)	1.93 x10 ^{^-9}
In-hospital death					
Female	5	0.63	0.00	1.16 (1.15-1.17)	1.00 x10 ^{^-8}
Advanced age	5	1.12 x10 ^{^-6}	98.51	1.08 (1.05-1.11)	1.00 x10 ^{^-12}
30-day death					
Female	2	0.21	35.43	0.95 (0.80-1.10)	1.74 x10 ^{^-13}
Advanced age	3	0.07	57.99	1.06 (1.04-1.07)	1.00 x10 ^{^-15}
Smoking	2	0.23	31.14	0.87 (0.68-1.06)	3.06 x10 ^{^-9}
Hypertension	3	0.27	23.40	0.98 (0.96-0.99)	1.00 x10 ^{^-13}
Diabetes	2	0.02	81.51	1.62 (1.05-2.20)	2.74 x10 ^{^-8}
1-year death					
Female	2	1.00	0.00	0.98 (0.88-1.08)	4.02 x10 ^{^-8}
Advanced age	2	0.28	14.25	1.04 (1.01-1.07)	1.00 x10 ^{^-4}

Note: AMI, acute myocardial infarction; AMI-CS, cardiogenic shock after acute myocardial infarction; CI, confidence interval; CS, cardiogenic shock; OR, odds ratio; STEMI, ST-segment elevation myocardial infarction.