Supplementary Appendix
Supplement Table 1 GRADE evaluation of outcomes and summary of findings

Certai	nty assessm	ent					Nun patients		Effect		Certai nty	Importanc e
No.	Study	Risk	Inconsiste	Indirectn	Imprecis	Other	Pande	Pre-	Relati	Absol	-	
of	Design	of	ncy	ess	ion	Considerati	mic	pandem	ve	ute		
studi		bias				ons	period	ic	(95%	(95 %)		
es								period	CI)	CI)		
Incide	nce of fibri	nolysis	s (assessed w	vith: Odds	Ratio)							
14	observati	very	very	serious.	not	publication	207/15	275/351	OR	per	$\oplus\bigcirc\bigcirc$	CRITICAL
	onal	serio	serious		serious.	bias	209	44	(1.18	1,000	\circ	
	studies	us				strongly	(1.4%)	(0.8%)	to	(from	Very	
						suspected			2.75)	1 more	low	
						all				to 13		
						plausible				more)		
						residual						
						confoundin						
						g would						
						suggest						
						spurious						
						-						

effect,

while no

effect was

observed.

Incidence of Fibrinolysis in HICs (assessed with: OR)

7	observati	very	not	not	serious.	all	102/37	237/189	OR	per	$\oplus\bigcirc\bigcirc$	IMPORTA
	onal	serio	serious.	serious.		plausible	17	66	(0.70	1,000	\bigcirc	NT
	studies	us				residual	(2.7%)	(1.2%)	to	(from	Very	
						confoundin			1.15)	4	low	
						g would				fewer		
						suggest				to 2		
						spurious				more)		
						effect,						
						while no						
						effect was						
						observed.						

Incidence of fibrinolysis in LMICs (assessed with: Odds Ratio)

7	observati	very	very	very	not	strong	105/11	88/1602	OR	pe	r ⊕○○	IMPORTA
	onal	serio	serious	serious	serious	association	425	8 (0.5%)	(2.18	1,000	\bigcirc	NT

studies	us	all	(0.9%)	to	(from	Very
		plausible		12.22)	6 more	low
		residual			to 58	
		confoundin			more)	
		g would				
		suggest				
		spurious				
		effect,				
		while no				
		effect was				
		observed.				

All-cause Mortality (assessed with: Odds Ratio)

13	observati	very	serious.	serious.	not	publication	795/15	2406/34	OR	per	\oplus	CRITICAL
	onal	serio			serious.	bias	050	913	(0.87	1,000	\bigcirc	
	studies	us				strongly	(5.3%)	(6.9%)	to	(from	Very	
						suspected			1.37)	8	low	
						all				fewer		
						plausible				to 23		
						residual				more)		
						confoundin						

g would
suggest
spurious
effect,
while no
effect was
observed

All-cause mortality in studies showing significantly increased incidence of fibrinolysis (assessed with: Odds Ratio)

5	observati	very	not	not	very	all	25/376	23/487	OR	per	\oplus	CRITICAL
	onal	serio	serious	serious	serious	plausible	(6.6%)	(4.7%)	(0.67	1,000	\circ	
	studies	us				residual			to	(from	Very	
						confoundin			4.06)	15	low	
						g would				fewer		
						suggest				to 120		
						spurious				more)		
						effect,						
						while no						
						effect was						
						observed						

All-cause mortality in studies showing no significant change in the incidence of fibrinolysis (assessed with: Odds Ratio)

8	observati	very	not	not	very	all	770/14	2383/34	OR	per	\oplus	IMPORTA
	onal	serio	serious	serious	serious	plausible	674	426	(0.83	1,000	\bigcirc	NT
	studies	us				residual	(5.2%)	(6.9%)	to	(from	Very	
						confoundin			1.33)	11	low	
						g would				fewer		
						suggest				to 21		
						spurious				more)		
						effect,						
						while no						
						effect was						
						observed						

All-cause mortality in HICs (assessed with: Odds Ratio)

6	observati	very	very	not	very	all	256/36	1750/18	OR	per	\oplus	IMPORTA
	onal	serio	serious	serious	serious	plausible	25	885	(0.76	1,000	0	NT
	studies	us				residual	(7.1%)	(9.3%)	to	(from	Very	
						confoundin			1.66)	21	low	
						g would				fewer		
						suggest				to 52		
						spurious				more)		
						effect,						

while no effect was observed

All-cause mortality in LMICs (assessed with: Odds Ratio)

7	observati	very	serious ^{ly}	very	not	all	539/11	656/160	OR	per	$\oplus\bigcirc\bigcirc$	IMPORTA
	onal	serio		serious	serious	plausible	425	28	(1.03	1,000	\circ	NT
	studies	us				residual	(4.7%)	(4.1%)	to	(from	Very	
						confoundin			1.30)	1 more	low	
						g would				to 12		
						suggest a				more)		
						spurious						
						effect,						
						while no						
						effect was						
						observed						

HICs: High-income countries; LMICs: Low-and middle-income countries.

MOOSE checklist

Reporting Criteria	Reported (Yes/No)	Reported on Page
Reporting of Background		

Problem definition	Yes	1
Hypothesis statement	Yes	2
Description of Study Outcome(s)	Yes	3
Type of exposure or intervention used	Yes	2
Type of study design used	Yes	3
Study population	Yes	2
Reporting of Search Strategy		
Qualifications of searchers (e.g., librarians	No	
and investigators)		
Search strategy, including time period	Yes	2
included in the synthesis and keywords		
Effort to include all available studies,	Yes	2-3
including contact with authors		
Databases and registries searched	Yes	2
Search software used, name and version, including	Yes	2-3
special features used		
(e.g., explosion)		
Use of hand searching (e.g., reference	Yes	2
lists of obtained articles)		
List of citations located and those	Yes	4
excluded, including justification		

Method for addressing articles	Not applicable	
published in languages other than English		
Method of handling abstracts and	Yes	?
unpublished studies		
Description of any contact with authors	Yes	
Reporting of Methods		
Description of relevance or appropriateness of studies	Yes	4
assembled for assessing the hypothesis to be tested		
Rationale for the selection and coding of data (e.g.,	Yes	3-4
sound clinical principles or		
convenience)		
Documentation of how data were classified and coded	Yes	3-4
(e.g., multiple raters, blinding, and interrater reliability)		
Assessment of confounding (e.g., comparability of	Yes	10
cases and controls in		
studies where appropriate		
Assessment of study quality, including blinding of	Yes	10
quality assessors;		
stratification or regression on possible		

predictors of study results	Yes	10-13
Assessment of heterogeneity	Yes	13
Description of statistical methods	Yes	3
(e.g., complete description of fixed or		
random effects models, justification		
of whether the chosen models		
account for predictors of study		
results, dose-response models, or		
cumulative meta-analysis) in		
sufficient		
detail to be replicated		
Provision of appropriate tables and	Yes	4-13
graphics		
Reporting of Results		
Table giving descriptive information for	Yes	5-7
each study included		
Results of sensitivity testing (e.g.,	Yes	13
subgroup analysis)		
Indication of statistical uncertainty of	Yes	
findings		
Reporting of Discussion		
Quantitative assessment of bias (e.g.,	Yes	11-12
publication bias)		
Justification for exclusion (e.g., exclusion	Yes	4
of non-English-language citations)		
Assessment of quality of included	Yes	10
studies		

Reporting of Conclusions		
Consideration of alternative	Yes	14
explanations		
for observed results		
Generalization of the conclusions (e.g.,	Yes	14-15
appropriate for the data presented and		
within the domain of the literature		
review)		
Guidelines for future research	Yes	15
Disclosure of funding source	Yes	16

From: **Stroup DF**, Berlin JA, Morton SC, Olkin I, Williamson GD, Rennie D, Moher D, Becker BJ, Sipe TA, Thacker SB. Meta-analysis of observational studies in epidemiology: a proposal for reporting. Meta-analysis Of Observational Studies in Epidemiology (MOOSE) group. *JAMA* 2000; **283**: 2008-2012 [PMID: 10789670doi: 10.1001/jama.283.15.2008]

Detailed quality assessment using Newcastle-Ottawa scale:

Studies Selection Comparability Outcome (Max Total stars (Max: \star \star \star (Max \star \star) \star \star)

	Case-Control			
	studies			
Daoulah, 2021	**	*	**	6
Leng, 2021	***	**	**	7
Song, 2021	***	*	**	6
Wang, 2020	***	**	**	7
Xiang, 2020	***	*	**	6

Zhang, 2021	**		**	4
Erol, 2020	**	*	**	5
Mesnier, 2020	**	*	*	4
Balghith, 2020	***	*	**	6
Clifford, 2021	***	**	***	8
Rodriguez-	**	*	**	5
Leor, 2020				
Calvao, 2021	***	*	***	7
	Cohort studies			
Huang, 2020	***	*	*	5
Wu, 2020	***	**	**	8



Supplementary Figure 1 Quality assessment of included studies using the Newcastle-Ottawa scale.

Search strategies

PubMed:

(("st elevation myocardial infarction" [MeSH Terms] OR ("st" [All Fields] AND "elevation"[All Fields] AND "myocardial"[All Fields] AND "infarction"[All Fields]) OR "st elevation myocardial infarction" [All Fields] OR (("standards" [MeSH Subheading] OR "standards"[All Fields] OR "st"[All Fields]) AND ("elevate"[All Fields] OR "elevated"[All Fields] OR "elevates" [All Fields] OR "elevating" [All Fields] OR "elevation" [All Fields] OR "elevational" [All Fields] OR "elevations" [All Fields])) OR (("acute" [All Fields] OR "acutely" [All Fields] OR "acutes" [All Fields]) AND ("myocardial infarction" [MeSH Terms] OR ("myocardial" [All Fields] AND "infarction" [All Fields]) OR "myocardial infarction"[All Fields])) OR ("acute coronary syndrome"[MeSH Terms] OR ("acute"[All Fields] AND "coronary" [All Fields] AND "syndrome" [All Fields]) OR "acute coronary" syndrome"[All Fields]) OR ("st elevation myocardial infarction"[MeSH Terms] OR ("st"[All Fields] AND "elevation"[All Fields] AND "myocardial"[All Fields] AND "infarction"[All Fields]) OR "st elevation myocardial infarction"[All Fields] OR "stemi"[All Fields] OR "stemis"[All Fields])) AND ("thrombolytic therapy"[MeSH Terms] OR ("thrombolytic" [All Fields] AND "therapy" [All Fields]) OR "thrombolytic therapy"[All Fields] OR ("thrombolytic therapy"[MeSH Terms] OR ("thrombolytic"[All Fields] AND "therapy"[All Fields]) OR "thrombolytic therapy"[All Fields] OR ("fibrinolytic" [All Fields] AND "therapy" [All Fields]) OR "fibrinolytic therapy" [All ("fibrinolytic agents"[Pharmacological Action] OR "fibrinolytic Fields]) OR agents"[MeSH Terms] OR ("fibrinolytic"[All Fields] AND "agents"[All Fields]) OR "fibrinolytic agents"[All Fields]) OR ("fibrinolysis"[MeSH Terms] OR "fibrinolysis"[All Fields] OR "fibrinolyses" [All Fields]) OR "thrombolysis" [All Fields] OR ("tissue plasminogen activator" [MeSH Terms] OR ("tissue" [All Fields] AND "plasminogen" [All Fields] AND "activator" [All Fields]) OR "tissue plasminogen activator" [All Fields] OR "alteplase"[All Fields]) OR ("streptokinase"[MeSH Terms] OR "streptokinase"[All Fields] OR "streptokinases"[All Fields]) OR ("reteplase"[Supplementary Concept] OR

"reteplase"[All Fields]) OR ("tenecteplase"[MeSH Terms] OR "tenecteplase"[All Fields])))
AND ((english[Filter]) AND (2020:2022[pdat]))

Scopus:

("ST elevation myocardial infarction" OR "ST elevation" OR "acute myocardial infarction" OR "acute coronary syndrome" OR STEMI) AND ("thrombolytic therapy" OR "fibrinolytic therapy" OR "fibrinolytic agents" OR fibrinolysis OR thrombolysis OR alteplase OR Streptokinase OR reteplase OR tenecteplase).

Web of Science:

(ST elevation myocardial infarction OR ST elevation OR acute myocardial infarction OR acute coronary syndrome OR STEMI) AND (thrombolytic therapy OR fibrinolytic therapy OR fibrinolytic agents OR fibrinolysis OR thrombolysis OR alteplase OR Streptokinase OR reteplase OR tenecteplase)

Cochrane:

(ST elevation myocardial infarction OR ST elevation OR acute myocardial infarction OR acute coronary syndrome OR STEMI) AND (thrombolytic therapy OR fibrinolytic therapy OR fibrinolytic agents OR fibrinolysis OR thrombolysis OR alteplase OR Streptokinase OR reteplase OR tenecteplase)