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# PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases Manuscript NO: 81868 Title: The Evolving Paradigm of Thrombolysis Thrombolytics in Pulmonary Embolism: A Comprehensive Review of Clinical Manifestations, Indications, Contraindications, Recent Advances and Guidelines to Diagnosis and Management Provenance and peer review: Invited Manuscript; Externally peer reviewed Peer-review model: Single blind **Reviewer's code:** 05040484 **Position:** Editorial Board Academic degree: MD, PhD Professional title: Assistant Professor, Doctor, Professor, Research Scientist Reviewer's Country/Territory: Russia Author's Country/Territory: United States Manuscript submission date: 2022-11-26 Reviewer chosen by: AI Technique Reviewer accepted review: 2023-01-01 21:48 Reviewer performed review: 2023-01-09 21:44 Review time: 7 Days and 23 Hours ] Grade A: Excellent [] Grade B: Very good [Y] Grade C: Scientific quality Good ] Grade D: Fair [] Grade E: Do not publish [

Novelty of this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [ Y] Grade C: Fair
	[ ] Grade D: No novelty



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Creativity or innovation of this manuscript	<ul> <li>[ ] Grade A: Excellent [ ] Grade B: Good [ Y] Grade C: Fair</li> <li>[ ] Grade D: No creativity or innovation</li> </ul>
Scientific significance of the conclusion in this manuscript	<ul> <li>[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair</li> <li>[ ] Grade D: No scientific significance</li> </ul>
Language quality	[Y] Grade A: Priority publishing [] Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection
Conclusion	<ul> <li>[ ] Accept (High priority) [ ] Accept (General priority)</li> <li>[ Y] Minor revision [ ] Major revision [ ] Rejection</li> </ul>
Re-review	[Y]Yes []No
Peer-reviewer statements	Peer-Review: [Y] Anonymous       [] Onymous         Conflicts-of-Interest: [] Yes       [Y] No

### SPECIFIC COMMENTS TO AUTHORS

This is an interesting review, but the Methods section is redundant here. It is needed if the review is systematic and done on the basis of accepted rules. This review, as I understand it, is literary, so this section is not needed here.



Novelty of this manuscript

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[Y] Grade B: Good



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Peer-reviewer statements	Peer-Review: [Y] Anonymous       [] Onymous         Conflicts-of-Interest: [] Yes       [Y] No

#### SPECIFIC COMMENTS TO AUTHORS

The authors investigated the evolving Paradigm of thrombolysis in pulmonary embolism and performed a comprehensive review of clinical manifestations, indications, contraindications, recent advances and guidelines to diagnosis and management. It is impresseive and good. I have several questions for the authors: 1. I would suggest to revise thrombolytics to thrombolysis. 2. There is no doubt that patients with unstable hemodynamics require thrombolysis, but I insist that part of patients with sub-massive or intermediate-risk PE also required thrombolysis. The mortality for these patients still ranged from 3% to 15%. Do you find any evidence or literature to identify those patients with intermediate-riks PE would get benefit from thrombolysis? 3. Endovascular treatment, including CDT, MPT, or catheter aspiration with or without fragmentation is a promising method for high-risk PE, especially under the support of ECMO. I would suggest the authors to add it in the conclusion. 4. I would suggest to delete "Systemic



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thrombolytics are not recommended if the patient is hemodynamically stable. " in the conclusion section. 5. "Except in cases where there is a contraindication, systemic thrombolytics are recommended for high-risk and part intermediate-risk PE" is adviced in the conclusion.