



Effective Health Care

Mechanical Thrombectomy Devices in Venous Thromboembolism

Nomination Summary Document

Results of Topic Selection Process & Next Steps

- Mechanical thrombectomy devices in venous thromboembolism is not feasible for a full systematic review due to the limited data available for a review at this time. No further activity will be undertaken on this topic.

Topic Description

Nominator: Government agency

Nomination Summary: The nominator questions what mechanical thrombectomy devices are available for patients with massive pulmonary embolism (PE) or deep vein thrombosis (DVT), as well as what instrumentation is required for these devices. The nominator also asks what the advantages and disadvantages of this technology are compared to thrombolysis or surgery, including potential harms.

Population(s): Patients with massive PE or DVT

Intervention(s): Mechanical thrombectomy devices

Comparator(s): Thrombolytics or surgery

Outcome(s): Potential advantages, disadvantages, and associated harms. Improved mortality, improved morbidity, reduced complications from bleeding that may occur with thrombolytics, reductions in the number of patients with PE who need to undergo surgery.

Key Questions from Nominator:

1. What mechanical thrombectomy devices are available in patients with massive PE (or DVT and perhaps associated right ventricular failure, cardiogenic shock, etc.)?
2. What are the advantages and disadvantages of such interventions compared to thrombolysis or surgery?
3. What are the associated harms? What instrumentation is required?

Considerations

- The topic meets EHC Program appropriateness and importance criteria. (For more information, see <http://effectivehealthcare.ahrq.gov/index.cfm/submit-a-suggestion-for-research/how-are-research-topics-chosen/>.)

- A literature scan did not identify sufficient evidence addressing the comparative effectiveness of mechanical thrombectomy devices to surgery, thrombolysis, or anticoagulation therapy in DVT or PE to support a review on this topic.