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	n Help Prognose the Short-Term ents with Pulmonary Embolism	
Good Outcome Likely	Adverse Outcome More Likely	
No syncope or seizure at presentation	Syncope or seizure with respiratory distress at presentation	
Age <50 y	Age >70 y	
Absence of COPD, CHF, or prior PE	Presence of COPD, CHF, or prior PE	
<50% pulmonary vascular occlusion	>50% pulmonary vascular occlusion; floating thrombus in the RV or right atrium observed on echocardiography or CT angiography	
Normal ECG	ECG with T-wave inversion in V ₁ –V ₄ and a new incomplete right bundle branch block	
Heart rate/systolic blood pressure <0.8	Heart rate/systolic blood pressure >1.0	
Pulse oximetry reading >94% breathing room air	Pulse oximetry reading <94% breathing room air	
Troponin I concentration ${<}0.4~\mu\text{g/L}$	Troponin I concentration >1.0 µg/L	
Normal RV function and size	RV dilation or hypokinesis, or an estimated RV systolic pressure >40 mm Hg Lance	et 353:1386

0 C Thrombolytic theapy Indications Contraindications Patients with massive PE associated with hemodynamic compromise are These should be particularly scrutinized if lytic therapy is reasonable candidates for intravenous thrombolytic therapy. considered Potential Indications for Thrombolytic Therapy in Venous Thromboembolism Contraindications to Thrombolytic Therapy in Pulmonary Embolism Absolute Hemorrhagio stroke Active intraoranial neoplasm Recent (<2 months) intraoranial surgery or trauma Recent (<2 months) decimal surgery or trauma Active or recent internal bleeding in prior 6 months Presence of hypotension related to PE[†] Presence of severe hypoxemia • Substantial perfusion defect . Right ventricular dysfunction associated with PE Relative Bleeding diathesis Uncontrolled severe hypertension (systolic BP >200 mmHg or diastolic BP >110 mmHg) Cardiopulmonary resuscitation Nonhemorrhagio stroke within prior 2 months Surgery within the previous 10 days Thrombocytopenia (+100,000 platelets per mm3) Extensive deep vein thrombosis [†] This indication is widely accepted; the other potential indications require careful review of relative contraindications to thrombolytic therapy. Buller, HR, Agnelli, G, Hull, RD, et al. Antithrombotic therapy for venous thromboembolic disease: the Seventh ACCP Conference on Antithrombotic ar Thrombolutic Therapy. Chest 2004; 126:4015.



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39 (1.7) 56 (5.0)

> 25 24 17

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32 (1.1) 26 (2.4)

57 (5.2) 10 (1.4)

32 (1.1) 48 (4.4)

0 Subcutaneous Fondaparinux versus Intravenous Unfraction. Heparin in the Initial Treatment of Pulmonary Embolism THROMBOLYSIS FOR PE Table 5. Clin Alteplase versus heparin Once-daily, subcutaneous A randomized controlled trial of alteplase plus heparin versus placebo plus heparin was conducted in 256 patients. Population Fondaparinus administration of fondaparinux All patients randomly assigned to a study gr No. of patients Recurrent venous thromboembulism — no. (K) Initial brannent Entire study -- Therapy with alteplase was associated with a decreased need for escalation of therapy (10 versus 25 percent) without monitoring 1103 as effective 14 (1.1) 42 (3.8) -- In-hospital mortality did not differ significantly between groups. as safe as adjusted-dose, Pe of recurrence – Fatal pulmonary Nonfatal pulmo Deep-vein thron tients as treated o of patients 16 14 12 * conjunction with heparin, alteplase can improve the intravenous administration of extents hijor bleeding — no. (%) Institut treatment Entire study Wally refer are clinical course of stable patients who have acute unfractionated heparin submassive pulmonary embolism in the initial treatment of 14 (1.)) 22 (2.0) hemodynamically stable patients with can prevent clinical deterioration requiring the escalation of - no. (%) Initial treatmen Entire study 35 (3.2) 62 (5.7) treatment during the hospital stay , pulmonaryembolism. eath — no. (%) Initial treatment Entire study 9 (0.8) 57 (5.2) Konstantinides, S, Geibel, A, Heusel, G, et al JM october 30 2003 349 no. 18 icutaneous Fondaparinux versus Intravenous Unfrac varin in the Initial Treatment of Pulmonary Embolism Heparin plus alteplase compared with heparin alone in patients with submassive pulmonary embolism. N Engl J Med 2002; 347:1143

