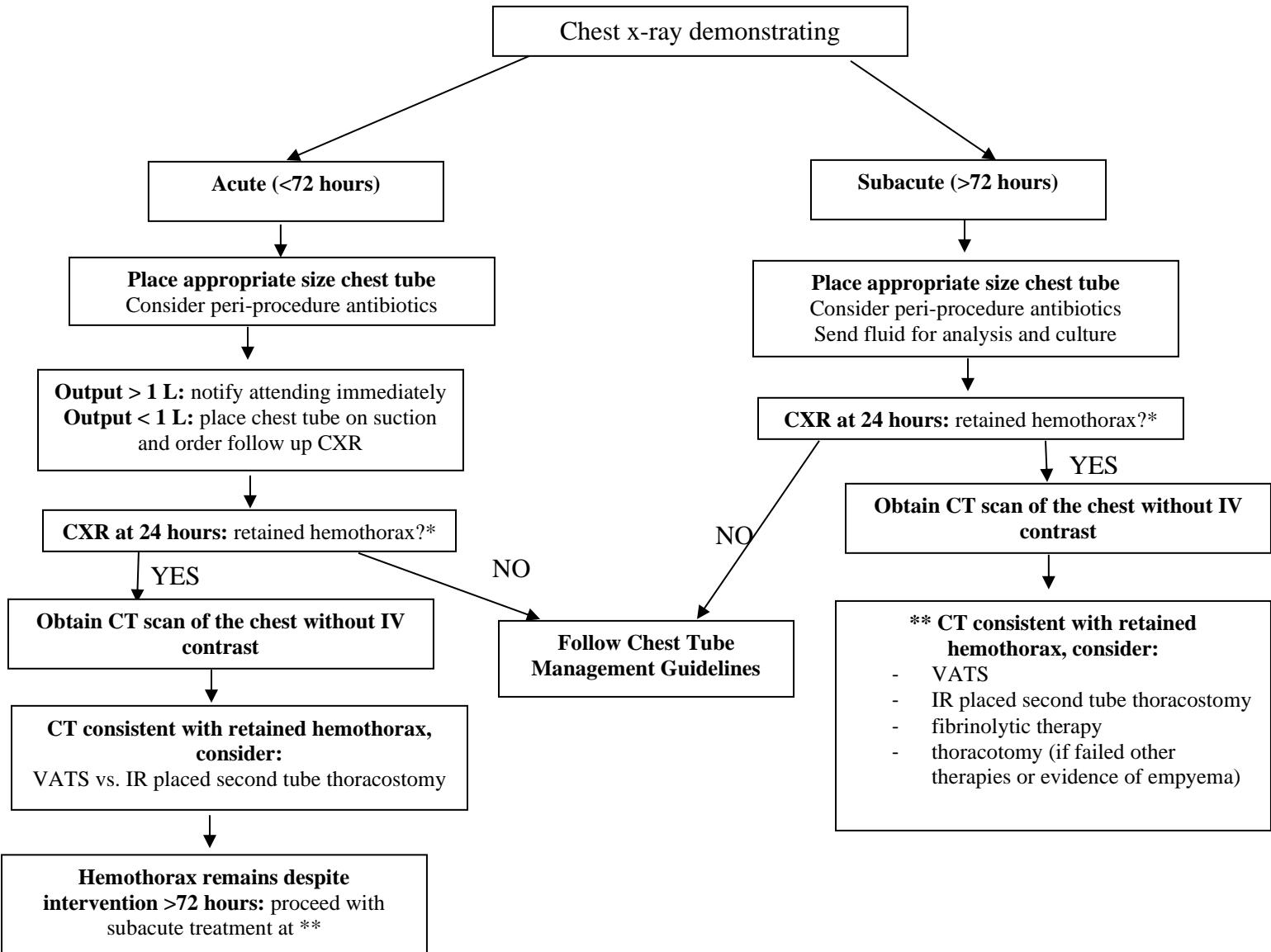


# **HEMOTHORAX IN STABLE PATIENTS** **PRACTICE MANAGEMENT GUIDELINE**



\* Clinically significant retained hemothorax is estimated volume >300 mL, or any volume detectable

## Fibrinolytic Therapy at WVU

### Order (Q12 hours x 72 hours):

1. Alteplase (activase) 10 mg in NS 40 mL for chest tube instillation
2. Dornase alfa (pulmozyme) 5 mg in SW 35 mL for chest tube instillation
3. Draw up 50 mL sterile saline for injection

Provider must instill solutions in a **sterile fashion** into the chest tube. Clamp after instillation. Encourage patient mobility. Unclamp after 4 hours.

Therapy should be continued every 12 hours until resolution or up to 72 hours. Repeat imaging is warranted if there is evidence of retained hemothorax after 72 hours.

## **HEMOTHORAX IN STABLE PATIENTS** **PRACTICE MANAGEMENT GUIDELINE**

Mowery N, Gunter O, Collier B, Diaz J, Haut E, Hildreth A, Holevar M, Mayberry J, Streib E. Practice Management Guidelines for Management of Hemothorax and Occult Pneumothorax. *The Journal of Trauma: Injury, Infection, and Critical Care* 2011, Feb; 70(2):510-518

Karmy-Jones R, Jolevar M, Sullivan RJ, Fleisig A, Jurkovich GJ. Residual hemothorax after chest tube placement correlates with increased risk of empyema following traumatic injury. *Can Respir J* 2008, Jul-Aug;15(5):255-8

Meyer DM, Jessen ME, Wait MA, Estrera AS. Early evacuation of traumatic retained hemothoraces using thoracoscopy: a prospective, randomized trial. *Ann Thorac Surg.* 1997 Nov;64(5):1396-400

DuBose J, Inaba K, Demetriades D, Scalea TM, O'Connor J, Menaker J, Morales C, Konstantinidis A, Shiflett A, Copwood B; AAST Retained Hemothorax Study Group. Management of post-traumatic retained hemothorax: a prospective, observational, multicenter AAST study. *J Trauma Acute Care Surg.* 2012 Jan;72(1):11-22

Bauman ZM, Kulvatunyou N, Joseph B, Jain A, Friese RS, Gries L, O'Keeffe T, Tang AL, Vercruyse G, Rhee P. A Prospective Study of 7-Year Experience Using Percutaneous 14-French Pigtail Catheters for Traumatic Hemothorax/Hemopneumothorax at a Level-1 Trauma Center: Size Still Does Not Matter. *World J Surg.* 2018 Jan;42(1):107-113

Oguzkaya F et al. Videothoracoscopy versus intrapleural streptokinase for management of post traumatic retained haemothorax. *Injury.* 2005 Apr;36(4):526-9.

Kimbrel et al. Intrapleural Thrombolysis for the Management of Undrained Traumatic Hemothorax: A Prospective Observational Study. *J Trauma.* 2007 May;62(5):1175-8 - 92% success with tpa but took avg 3.4 +/- 1.4 days