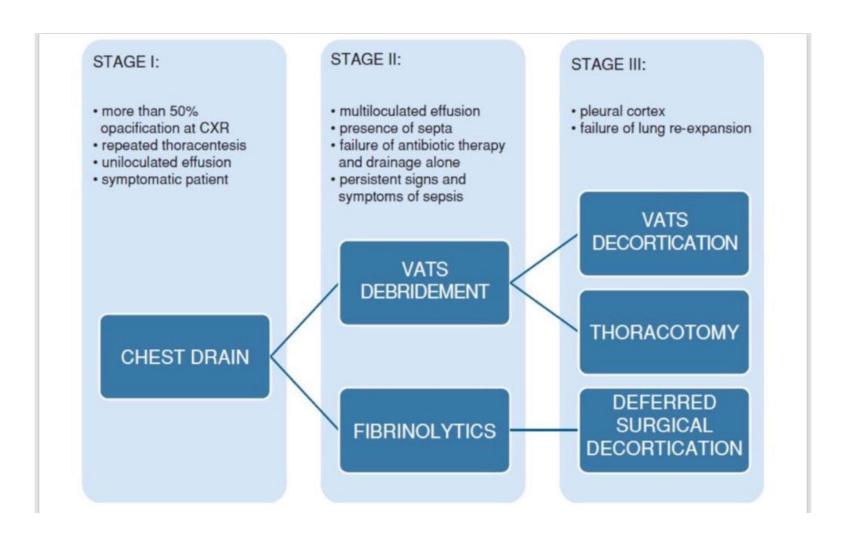
Pleural disese

Effusions: benign malignant

Tumors:: benign malignant

cysts

Parapneumonic empyema



Medical illness

- If P.E is large and respiratory compromise and lung collapse: drainage → needle aspiration or small drain
- 1- larger effusion
- 2- equal E. → Right pleural cavity is choose

Drains

- BTS → 2010 → chest drainage :
- 1- positive gram stain or culture
- 2- PH<7.2
- 3- Poor clinical progress during antibiotic course
- 4- large effusion

Tube thoracostomy

- As primary treatment → failure 40%
- Tube size:????
- Clinical outcome of patients treated with different sizes has not been addressed in R.C Trials...
- BTS GUIDLINS: 1-Small catheter(10F to 14F),
 2-image guide whenever possible,3- regular saline flushing

Larger drain (>28) → thick pus → no consensus optimal size !!! R.C.T

Multicenter intrapleural sepsis ti=rial(MIST1)::

NO DIFFERENCE IN THE PRIMARY
OUTCOM(death or need for surgery) related to type of drain.

Criteria to choose small- or large- bore drains are not standardised but:

- Analysis of demography
- Bacteriology
- Prognostic factors
- Shows acceptable homogeneity among group.

Pain- reinsertion- tube blockage- displacement

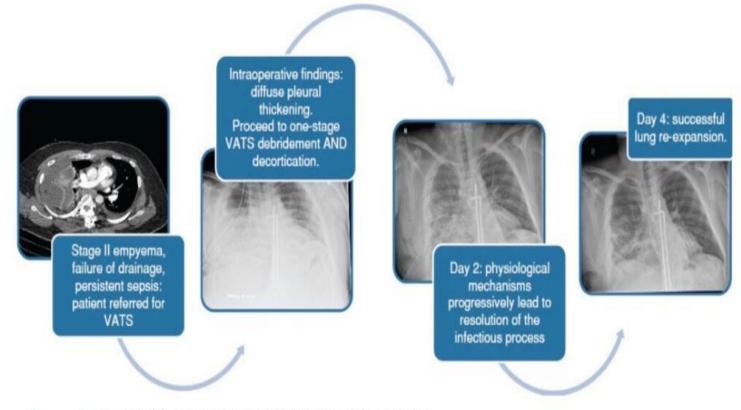
Intrpleural fibrinolytics

- Instilled pleural cavity

 break the septa of the empyema & degrade the necrotic debris
- 2008 COCHRANE → 207 pleural eff. → Saline vs.
 Fibrinolytic → pleural fibrinolysis decrease the need for surgery/ hospital stay.
- 1- streptokinase
- 2- *TPA*
- 3-**Dnase**

VATS 91% VS. Fibrinolytic 41%

VATS



Successful one-stage VATS debridement and decortication.



FIGURE 60.7 CT visualization of pleural cortex.

EMPYEMA



MALIGNANT P.E



Indication for VATS

- 1- Fibrinopurulent effusion
- 2- 2 weeks after failure of conservative treatments.
- 3- when gram-negative organisms are not involved
- 4- stage 3 if feasible.

Thoracotomy & decortication

- 1- Failure of VATS procedure.
- 2- need to directly enter the empyema cavity and debridment
- 3- had other pathology plus empyema

Open drainage

- 1- had multiple risk factor
- 2- contraindication to do VATS or Thoracotomy.
- 3- mental disorder and lack of coopration.

OPEN DRAINAGE



خدا نگهدارتان

