# Transudate Vs Exudate

מחלקה פנימית ב', המרכז הרפואי תל השומר ע"ש חיים שיבא

Tomm Caspi 4-1-10

# Definition

Transudate: An extracellular fluid, with a low protein content, that has effused from the blood circulation out to the interstitial space. Caused by systemic factors, usually by increased blood pressure.

# Definition

Exudate: An extracellular fluid, with a high protein content, that has effused from the blood circulation out to the interstitial space (usually in an area of inflammation). Caused by local factors that increase permeability of the blood vessels.

### **Characteristics of Exudate**

Any of the following:

- > Pleural Fluid (PF) / Serum Protein > 0.5
- > PF / Serum LDH > 0.6
- > PF LDH >2/3 upper normal serum limit

If these are not met, the fluid is a Transudate

Source: Fauci AS, Kasper DL, Braunwald E, Hauser SL, Longo DL, Jameson JL, Loscalzo J: *Harrison's Principles of Internal Medicine*, 17th Edition: http://www.accessmedicine.com

# **Differential Diagnosis**

#### **Exudate:**

- > Bacterial pneumonia
   > Malignancy
   > Viral infection
- Pulmonary embolism

Transudate:
Left ventricular heart failure
Cirrhosis
Nephrosis