

## 1. R.S: 5.3 Lung contusion

- A specimen of right lung with three lobes
- Contusion of varies size present in all three lobes were noted

### **General description**

- Lung contusion is an entity involving injury to the alveolar capillaries, without any tear or cut in the lung tissue.
- Lung contusion (LC) is caused by blunt chest trauma, explosion injuries or a shock wave associated with penetrating trauma.
- The pathophysiology of lung contusion includes ventilation/perfusion mismatching, increased intrapulmonary shunting, increased lung water, segmental lung damage, and a loss of compliance.
- Disruption of the capillaries of the alveolar walls and septa causes leakage of blood into the alveolar spaces and interstitium
- Three possible mechanisms of development of contusion are
  - Inertial effect
  - Spalling effect
  - Implosion effect

