

بسم الله الرحمن
الرحيم

INDICATIONS OF THORACOTOMY IN CHEST TRAUMA

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INDICATIONS OF THORACOTOMY IN CHEST TRAUMA

*IN CHEST TRAUMA THE NEED FOR
THORACOTOMY IS EITHER:*

1. EARLY- IMMEDIATE OR .¹
EMERGENCY
THORACOTOMY. OR

2. LATE OR DELAYED .¹
THORACOTOMY.

EARLY (IMMEDIATE) INDICATIONS:

chest wall:

- A. fail segment: if patient opened for other indication**
- B. lost segment: if more than 5 cm in diameter anteriorly and more than 10 in diameter posteriorly**

EARLY (IMMEDIATE) INDICATIONS:

Sternum:

- Displaced fracture
- lost segment



EARLY (IMMEDIATE) INDICATIONS:

Diaphragm:

- Traumatic hernia
- diaphragmatic injury

Oesophagus:

- Perforation



EARLY (IMMEDIATE) INDICATIONS:

Lungs:

- a. Massive laceration of the lung-----
Hemothorax and Pneumothorax
- b. Rupture bronchus.

EARLY (IMMEDIATE) INDICATIONS:

pleura:

- A. massive hemothorax: more than 1500 ml blood
picture of massive pleural effusion + picture of
internal hemorrhage
- B. repeated bleeding : > 300 ml of blood per hour
for more than 3 to 4 hours
- C. ruptured bronchus: tension pneumothorax,
neumomediastinum

EARLY (IMMEDIATE) INDICATIONS:

heart:

- a. cardiac arrest for open cardiac massage
- b. cardiac tamponade



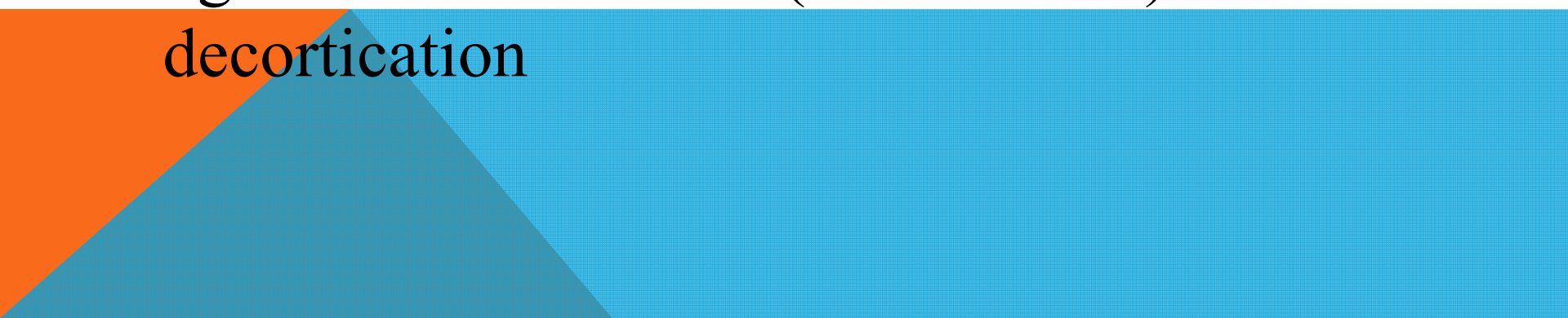
EARLY (IMMEDIATE) INDICATIONS:

others:

- a. thoraco abdominal injuries
- b. mediastinal structure injury



LATE INDICATIONS:

1. neglected diaphragmatic hernia-----repair
 2. neglected pneumothorax with empyema-----
decortication
 3. neglected clotted hemothorax-----
evacuation
 4. organized hemothorax (frozen chest)-----
decortication
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LATE INDICATIONS:

5. chronic empyema-----decortication

6. retained foreign body-----extraction

7. cardiac injuries:

- traumatic valvular injury eg. Mitral regurg
- post traumatic VSD
- Aortic rupture

COMPLICATIONS OF CHEST TRAUMA

Pulmonary complications.

Pleural space complications.

Vascular complications.

Chest wall complications.

Mediastinal complications.



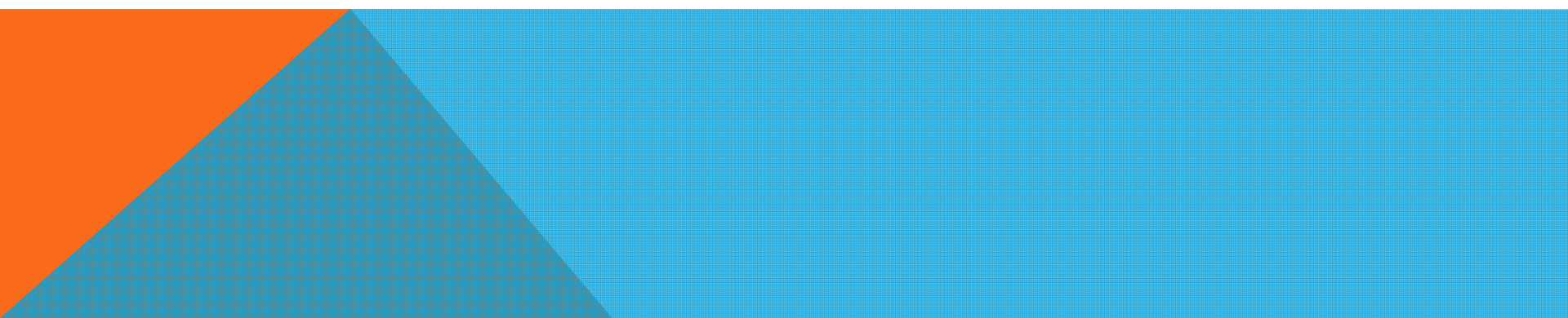
COMPLICATIONS OF CHEST TRAUMA

Pulmonary complications:

1. atelectasis.
2. Acute respiratory distress syndrome (acute lung injury).
3. pneumonia.
4. infarction.
5. Lung abscess.
6. Arteriovenous fistula.
7. Bronchial stenosis.
8. tracheo-esophageal fistula.

COMPLICATIONS OF CHEST TRAUMA

Pleural space complications:

1. Empyema.
 2. Bronchopleural fistula
 3. Organized hemothorax.
 4. Chylothorax.
 5. Fibrothorax.
 6. Diaphragmatic hernia.
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COMPLICATIONS OF CHEST TRAUMA

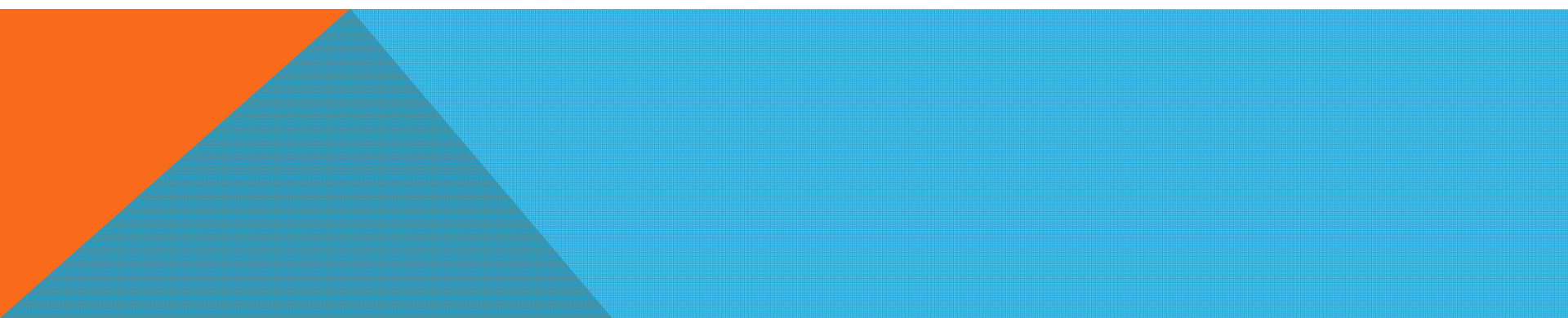
Vascular complications:

1. Thromboembolism.
2. Air embolism.
3. Pseudoaneurysm.
4. Great vessel fistula.



COMPLICATIONS OF CHEST TRAUMA

Chest wall complications:

1. Wound infection. .\
 2. wound dehiscence.
 3. Hernias.
 4. Persistent pain.
 5. Deformity.
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COMPLICATIONS OF CHEST TRAUMA

Mediastinal complications:

1. Mediastinitis.
2. Pericarditis.
3. Mediastinal abscess.

Thankyou

