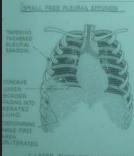
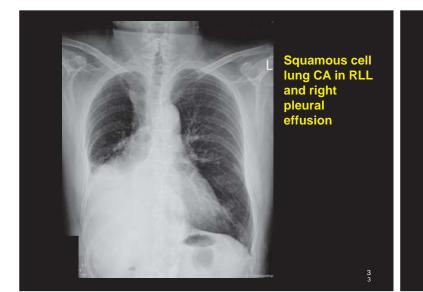
Basic Interpretations of CXR (2) 胸部X光片基本判讀须知

國泰綜合醫院放射線科 張永強醫師 2017/11/18

Pleural effusions



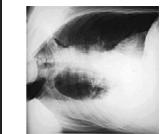




Right subpulmonary pleural effusion in upright CXR



Rt' Lateral decubitus view





Right subpulmonary pleural effusion in Rt decubitus CXR

Pneumothorax

- Spontaneous pneumothorax
- Post-traumatic pneumothorax
- Tension pneumothorax
- Hemopneumothorax

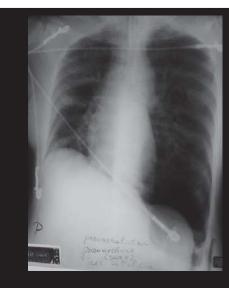


Sudden onset

Spontaneous pneumothorax

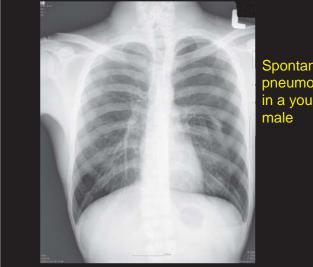


Supine CXR: Pneumonia and pneumothorax \rightarrow Deep sulcus sign & double diaphragm sign



Supine CXR: Pneumonia and pneumothorax → Deep sulcus sign

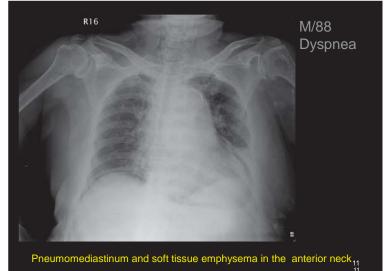
8

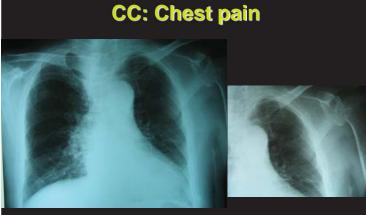


Spontaneous pneumothorax in a young male



Post chest intubation for spontaneous pneumothorax in a young male





Rib bone fracture(s)



Acute abdomen

Subphrenic free air → Perforation of hollow organ

> 13 13

> > 16

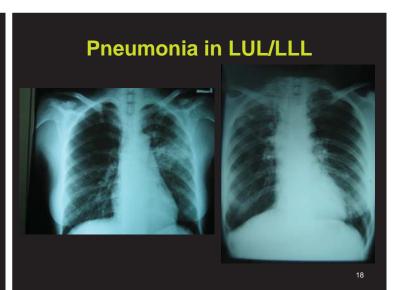
Perforation of abdominal hollow organ (subphrenic free air)





- 1. Pulmonary edema
- 2. Pneumonia
- 3. Aspiration
- 4. Hemorrhage

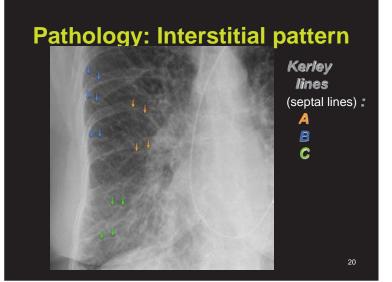


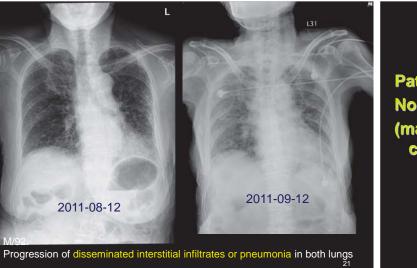


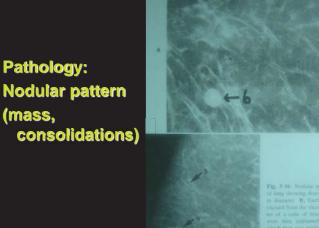
Acute pulmonary edema in a 53 year-old male

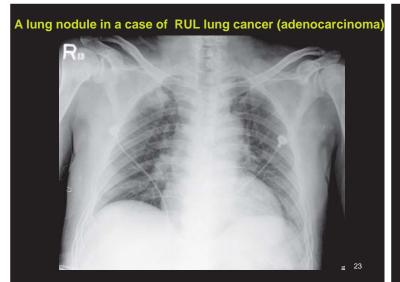
Congestive heart failure and pulmonary edema → Confluence of alveolar infiltrates in inner one-third of bilateral lung fields Bat-wings appearance



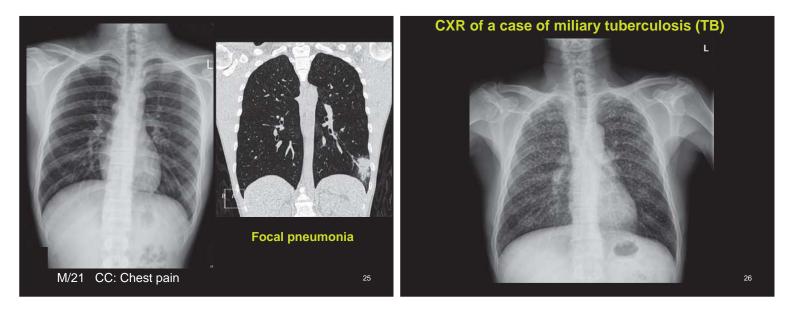








A lung nodule in a case of RLL lung cancer (adenocarcinoma)

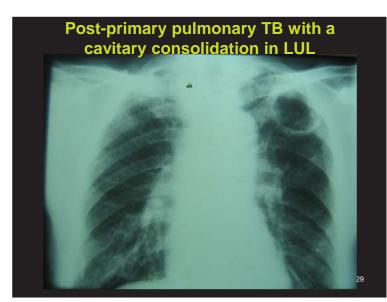


Pulmonary cavitary lesion

- The development of an air space within solid tissue whether a mass or consolidated /infarcted lung
- Tends to have a thicker wall than found in cysts or bullae
- 95% of cavitary nodules with a wall thickness greater than 16 mm are malignant and 92% with a wall thickness less than 4 mm are benign



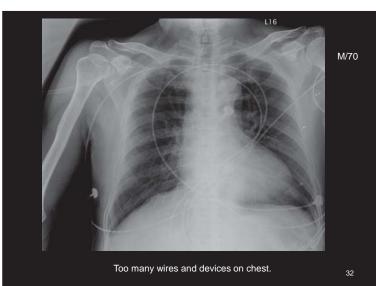


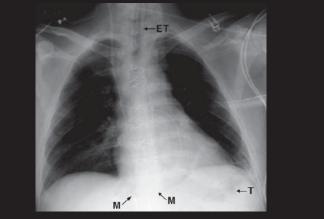


Tubes, Lines & Drains

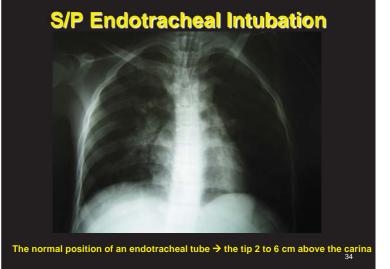
 Using chest radiography to assess the support device

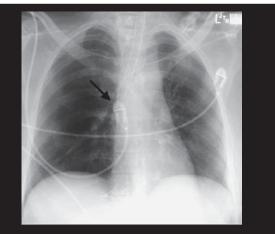
Apparatus seen on postcardiac surgery chest radiographs	
Location	Apparatus
Airway	Endotracheal tube
	Tracheostomy tube
Venous	Central venous pressure catheter
	Pulmonary artery catheter
Arterial	Intra-aortic balloon pump
	Extracorporeal life support cannulas
Cardiac	Temporary epicardial pacing leads
	Left atrial catheter
	Assist devices
Pleural	Chest tubes
Mediastinum	Drains
Esophagus	Drainage tubes
	Feeding tubes





Typical apparatus seen on post– cardiac surgery radiographs. Note the normal position of the endotracheal tube (ET), Swan-Ganz catheter (SG), mediastinal drains (M), and esophageal tube entering the stomach (T).





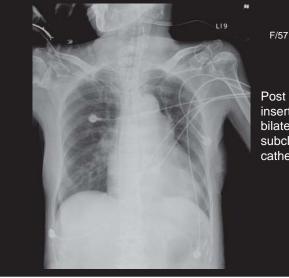
Endotracheal tube (arrow) with tip in the right main bronchus. Note secondary hyperinflation of the right lung with mediastinal shift to the left.



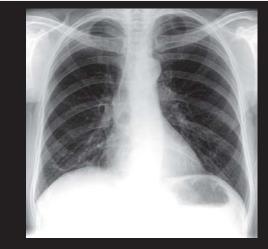
F/77 CXR (2011-09-15)

A cardiac disease with a doublelumen CVP catheter & suspected postprimary pulmonary TB

36



Post insertions of bilateral transsubclavian CV catheters



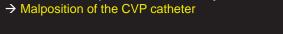
Peripherally inserted central catheters (PICC)

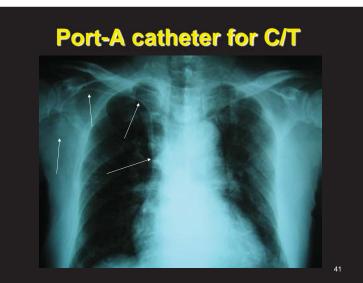


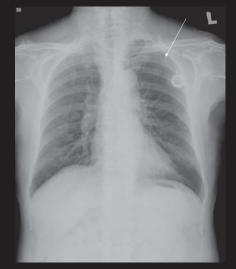
M/39: Progresssion of lung infection & malposition of the CVP catheter

39





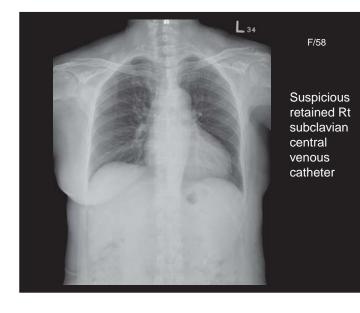




M/71

Fracture & dislocation of the Port-A catheter

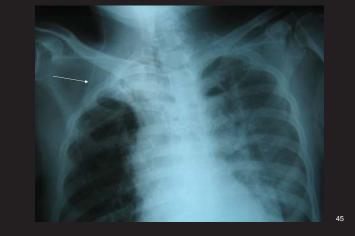
38

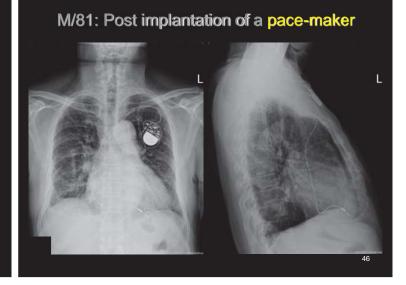


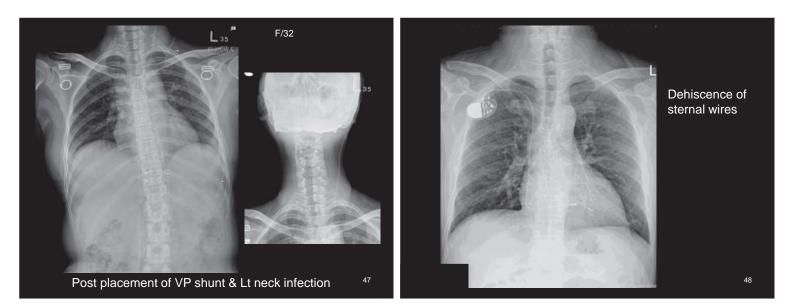
S/P tracheostomy S/P sternotomy (sternal wires)



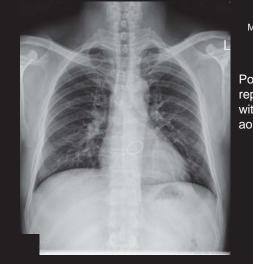
VP shunt passing the chest







43



M/43

Post replacement with mechanical aortic valve

49

Thank you for your attentions!

