

APPLICATIONS OF ULTRASOUND IN QSNICH PICU

CHALERMTHAI AKSILP, MD

DIVISION OF CRITICAL CARE & PULMONOLOGY

QUEEN SIRIKIT CHILDREN HOSPITAL

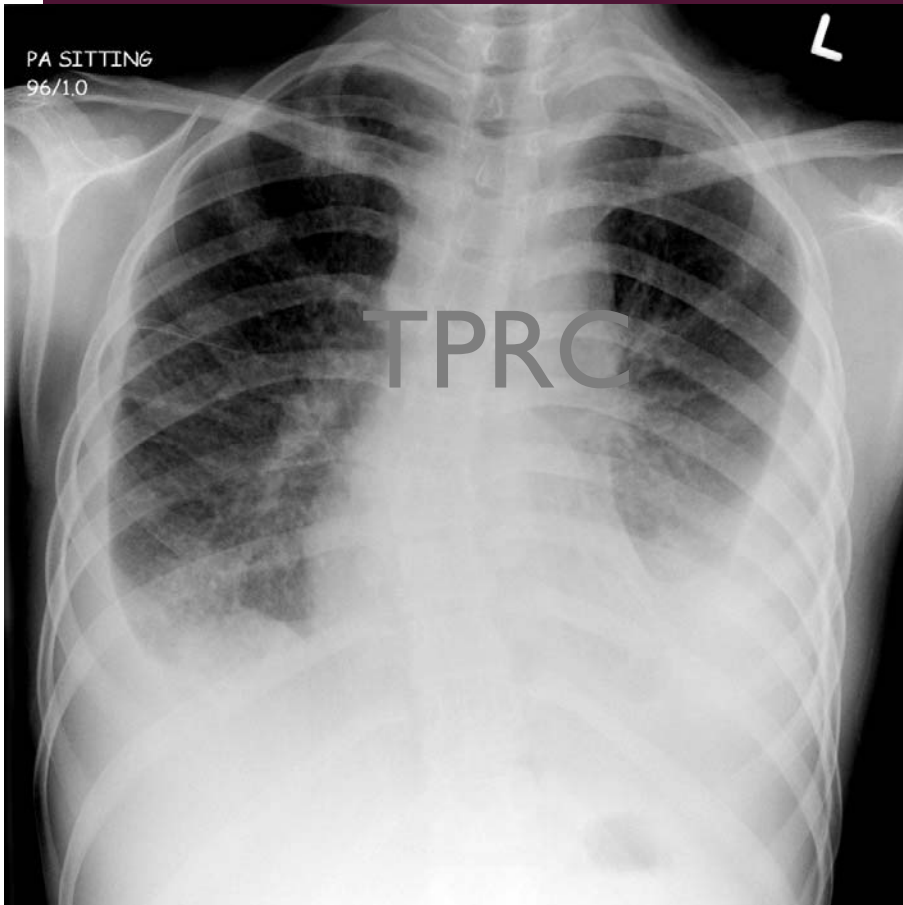
COMMON APPLICATIONS

- Rapid Assessment & Monitoring in Shock
- Rapid Detection of Pneumothorax
- Guide in Vascular Access
- Detection in Non Emergency Situation
 - Pleural fluid
 - Diaphragmatic paralysis or dysfunction
 - Pulmonary hypertension

KEY CONSIDERATIONS

- **Detect acute life-threatening conditions**
- **Bedside**
- **Focus : problem based,**
- **Less time (1-2 minutes)**
- **Providing information for decision making**
- **Improve efficiency and quality of care**
- **Monitoring**

10 YEARS OLD BOY WITH DSS 24 HOUR : AFTER RECEIVING 80 ML/KG OF NSS AND DEXTRAN 30 ML/KG



On O₂ mask with reservoir bag 10 L/min

RR 40, BP 90/70, PR 130, T 37.5, SpO₂ 88%

GA : Irritable, capillary refill 4 sec

Chest : moderate retraction, diminished BS both lung,
no crepitation

Heart : Tachycardia, normal S₁ S₂, no gallop

Liver : 3 cm below RCM, span ?

AFTER INTUBATION AND MECHANICAL VENTILATION

What is the next management for shock ?

- A. Give more fluid
- B. Inotropic drugs
- C. Lasix
- D. Central line insertion
- E. All of the above