

## APPENDIX 1    ultrasound Images



Image (1) 27 years old female with bilateral mild pleural effusion due to chronic renal failure

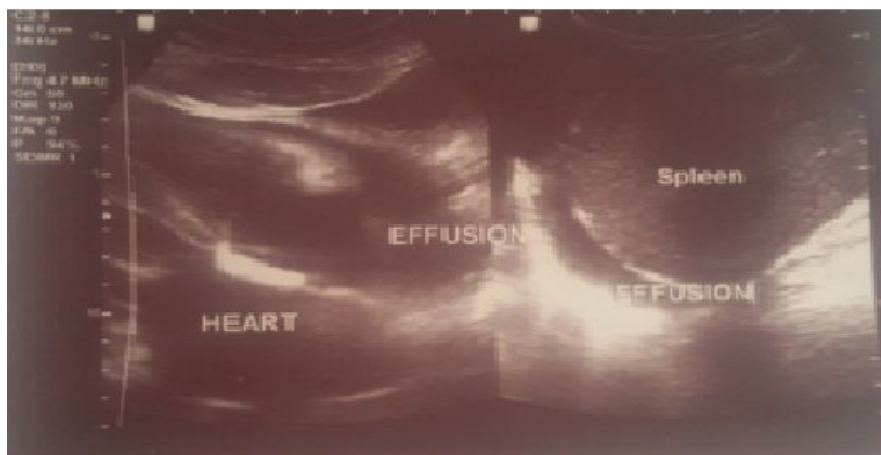


Image (2) 55 years old male with right moderate pleural effusion and left mild pleural effusion due to congestive heart failure

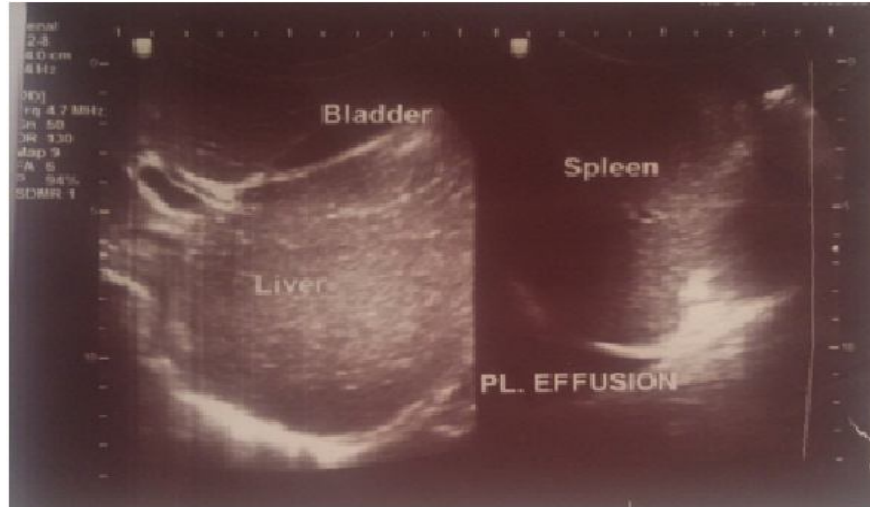


Image (3) 82 years old male with left mild pleural effusion due to acute renal failure



Image( 4)45 years old female with left mild pleural effusion and right moderate pleural effusion due to congestive heart failure



Image (5) 72 years old male with bilateral mild pleural effusion due to tuberculosis



Image (6) 24 years old male with right moderate pleural effusion due to stab wound

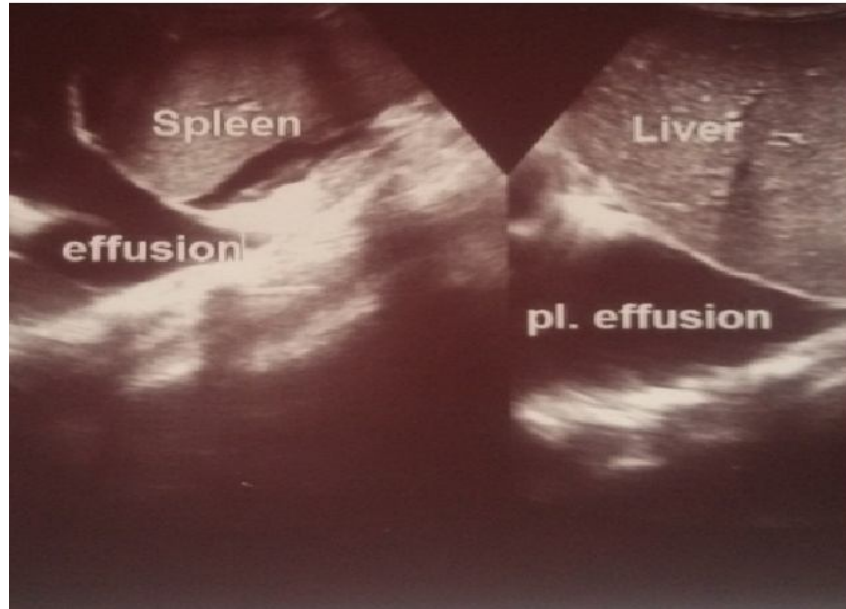


Image (7) 24 years old female with bilateral moderate pleural effusion due to pneumonia

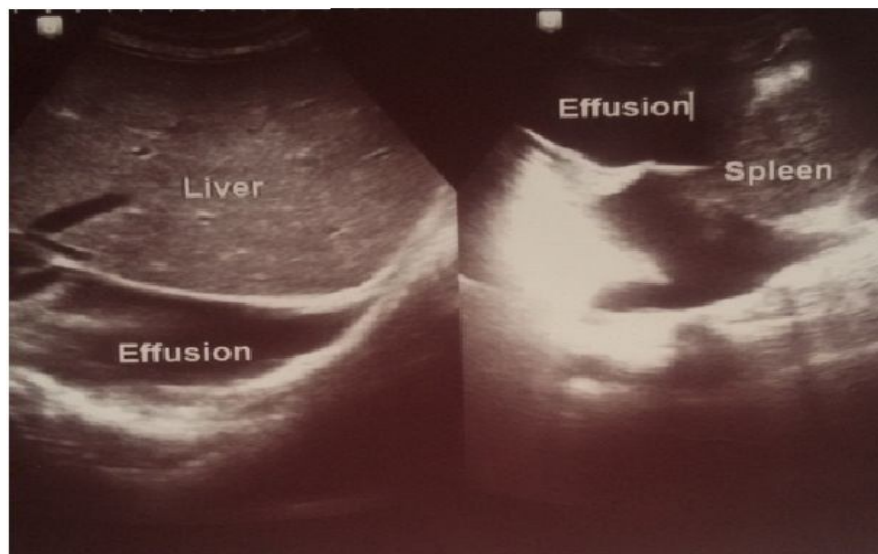


Image (8) 43 years old male with bilateral mild pleural effusion due to congestive heart failure and tuberculosis



Image (9) 25 years old male with mild pleural effusion due to ca lung



Image(10) 74 years old male with moderate pleural effusion due to chronic renal failure

Appendix 2

**Sudan University of Sciences and Technology**

**Evaluation Of Pleural Effusion in Omdurman Teaching Hospital using Ultrasound  
Data Collection Sheet**

**Gender** :- Female() Male()

**Age**:.....**Height**:.....**Weight**:.....

**Region** :

Khartoum () Omdurman () Khartoum north()

**Occupation** :.....

**Patient 's education** :

Illiterate () Primary school () Secondary school () University ()

**Clinical Presentation** :

Fever () Cough () Chest pain() Dizziness () Short of breathing ()

**family History** :Yes () No ()

**Causes**:

Abdominal () Pulmonary () Cardiac () others ()

**Ultrasound Finding**:

Mild () Moderate () Massive ()

**Associated ultrasound finding** :

Organomegaly () Metastasis () Ascites () Others ()

Signature:.....