

SUPPLEMENTARY MATERIAL

Utility of lung ultrasound in assessing severity of interstitial lung diseases: correlation with high-resolution computed tomography and spirometry findings

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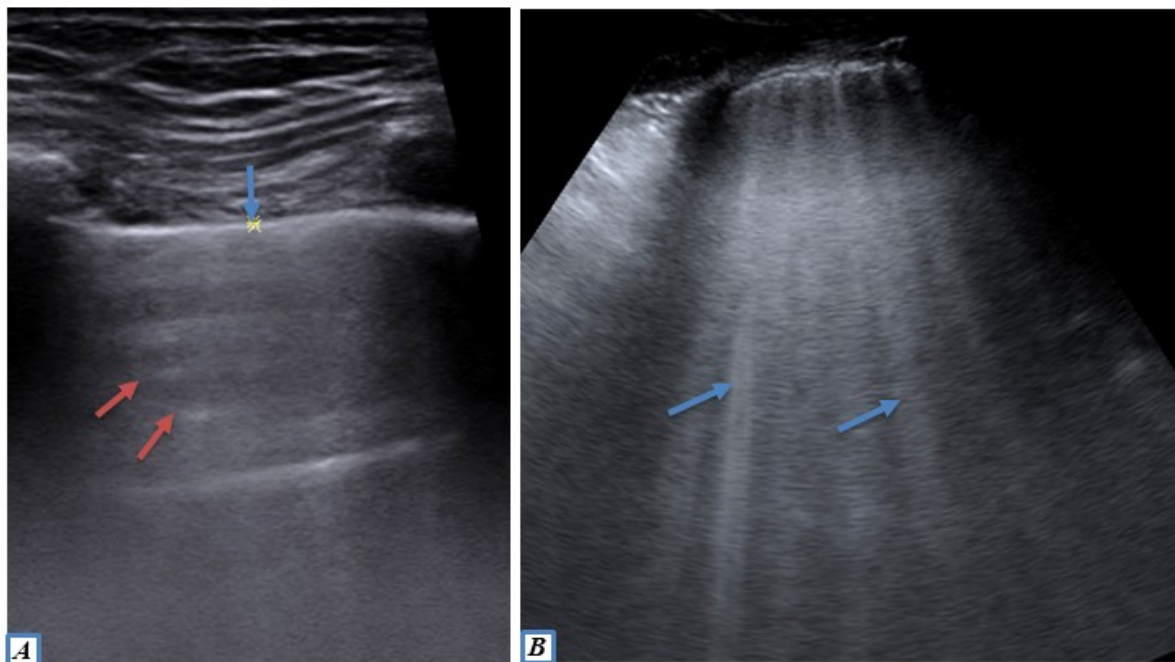
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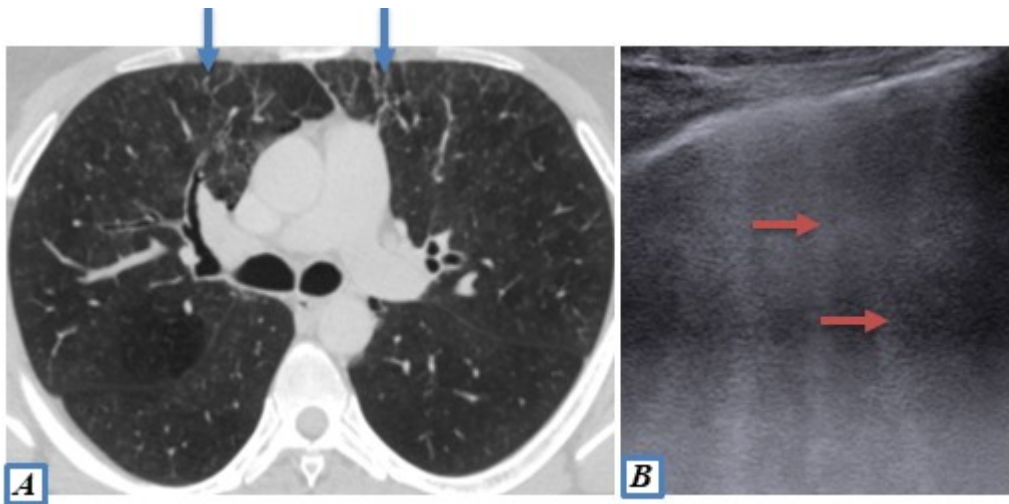
Key words: interstitial lung diseases, lung ultrasound, HRCT, spirometry.



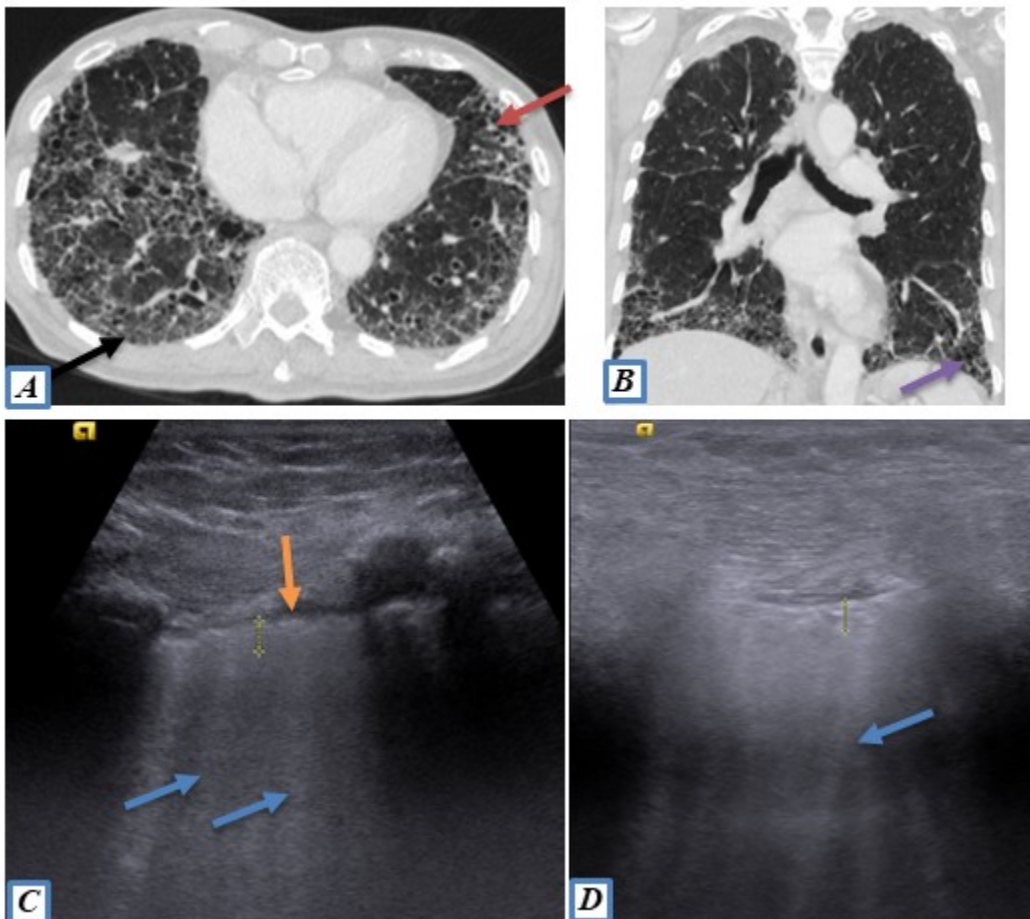
Supplementary Figure 1. Grey scale ultrasound image of lung showing the 'A' lines and 'B' lines. (A) normal smooth linear echogenic line of pleura (blue arrow) and A-line artefacts (echogenic horizontal lines running parallel to the pleura, as depicted by red arrows). (B) multiple B-lines (arrows) seen as echogenic vertical lines originating from the pleural line and spreading like a laser ray upto the edge of screen. B lines denote the thickened interlobular septae.



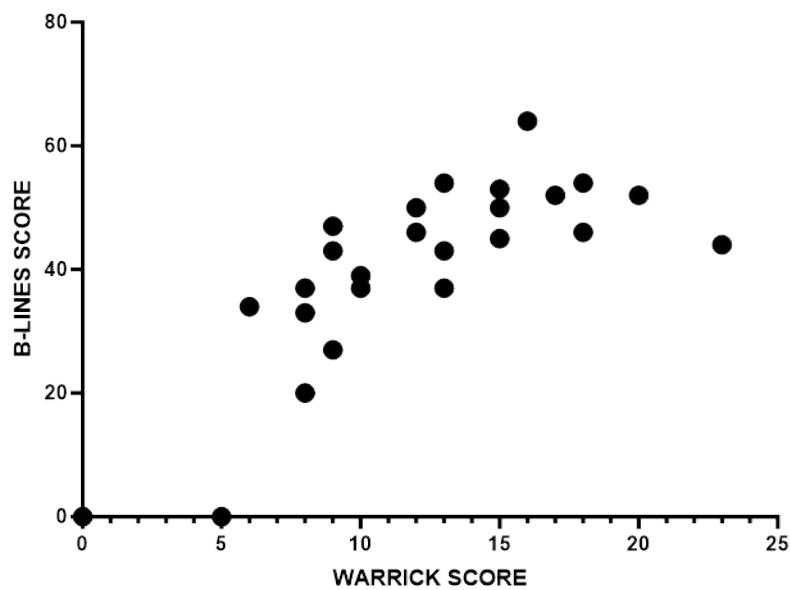
Supplementary Figure 2. Intercostal sites for lung ultrasound. 5 sites were examined on each side. Image (A) 2nd ICS along mid-clavicular line. (B) 4th ICS along mid-clavicular line. (C) 4th ICS along mid-axillary line. (D) 4th ICS along scapular line. (E) 8th ICS along scapular line.



Supplementary Figure 3. Interstitial lung disease patient with mild disease. 45 year old female who was known case of scleroderma. (A) Axial HRCT chest in lung window showing interlobular septal thickening (blue arrows) in anterior segments of bilateral upper lobes. Warrick score was 7 (mild category). (B) Grey scale ultrasound image of lung at right anterior 4th ICS shows B-lines (arrows). Total B lines score was 20 i.e. mild disease.



Supplementary Figure 4. Interstitial lung disease patient with moderate disease. 54 year old male presented with dry cough and dyspnea for 4 years. Axial (A) and coronal (B) HRCT chest images in the lung window showed subpleural reticulation (black arrow) with a basal predominance; honeycombing (orange arrow) and traction bronchiectasis (violet arrow) in bilateral lower lobes. Warrick score was 9 (moderate category). Grey scale ultrasound image of lung at right (C) and left (D) anterior 4th ICS shows multiple B lines (blue arrows). Pleural line is thin and smooth (green arrow). Total B lines score was 27 i.e. moderate disease. Based on HRCT findings, ILD with UIP pattern was given as radiological diagnosis.



Supplementary Figure 5. Scatter plot showing the relationship between Warrick Score and B-Lines Score.