

Lung Ultrasound in the Assessment of COVID-19

The Potential Usefulness of Lung Ultrasound

Lung Ultrasound provides diagnostic accuracy and therefore can be potentially useful in a variety of clinical situations;

- Management for patients triaging from pneumonia
- Management of patients that may require ventilation or weaning
- Chest imaging method for ARDS (Acute Respiratory distress syndrome)
- Easy to learn and unnecessary radiation

Additional Literature and sources

Followed the guidelines of national and international radiology societies
The latest paper about COVID-19 can be searched from below links

The UK Intensive Care Society

- ▶ [The role of ultrasound for patients with suspected or proved COVID-19.](#)
[By UK FUSIC Committee on behalf of Intensive Care Society and endorsed by Society for Acute Medicine](#)
- ▶ [Lung Ultrasound for COVID-19](#)

World Health Organization (WHO)

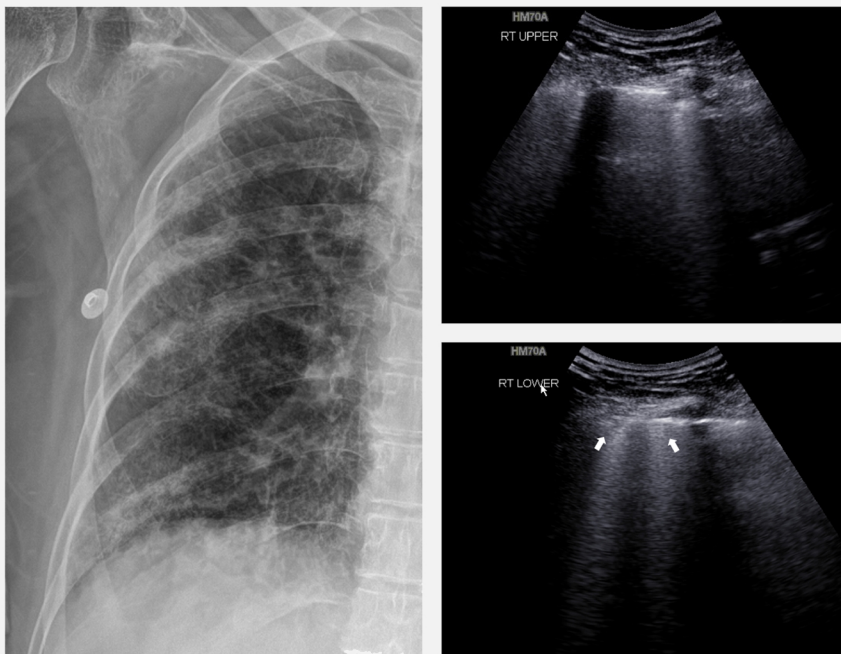
- ▶ [Clinical management of severe acute respiratory infection \(SARI\) when COVID-19 disease is suspected](#)



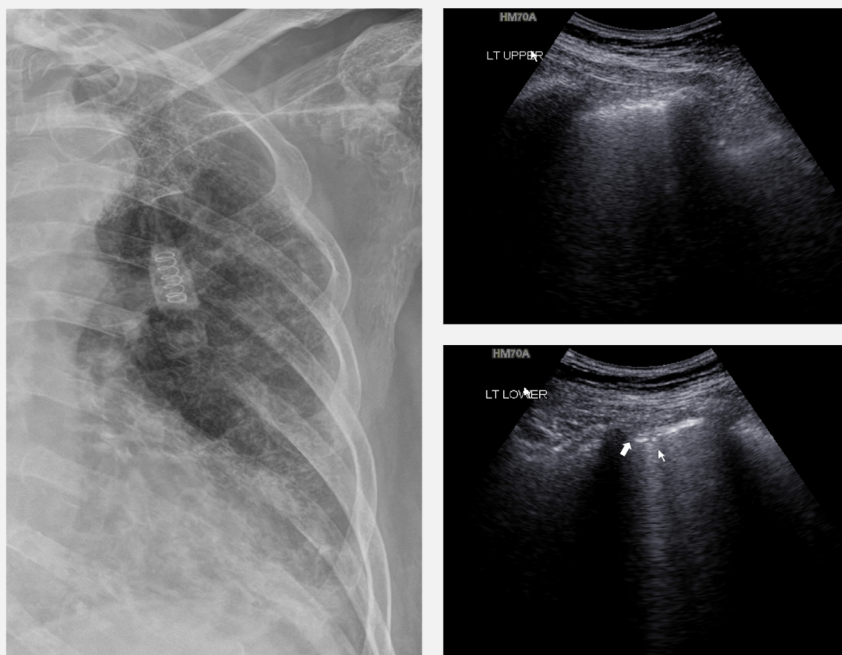
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A 75 years old female patient with confirmed with COVID-19 pneumonia demonstrated bilateral ground glass opacities on chest X-ray. The ultrasound was aiding in the detection of the pleural thickening and B-lines on both lower lung filed by Samsung Medison device

Lung US shows multifocal B lines and thickening of pleural line at upper and lower lung



Lung US shows neither A line nor B lines at upper lung, but shows B lines with thickening of pleural line with pleural line irregularity at lower lung (arrow)



* The images courtesy of associate prof. Chung, Samsung Medical Center, Seoul, Korea

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