

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 radiation-free

Literature and Resources

Recent report on Lung Ultrasound in COVID-19 can be found in links below.

The UK Intensive Care Society

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

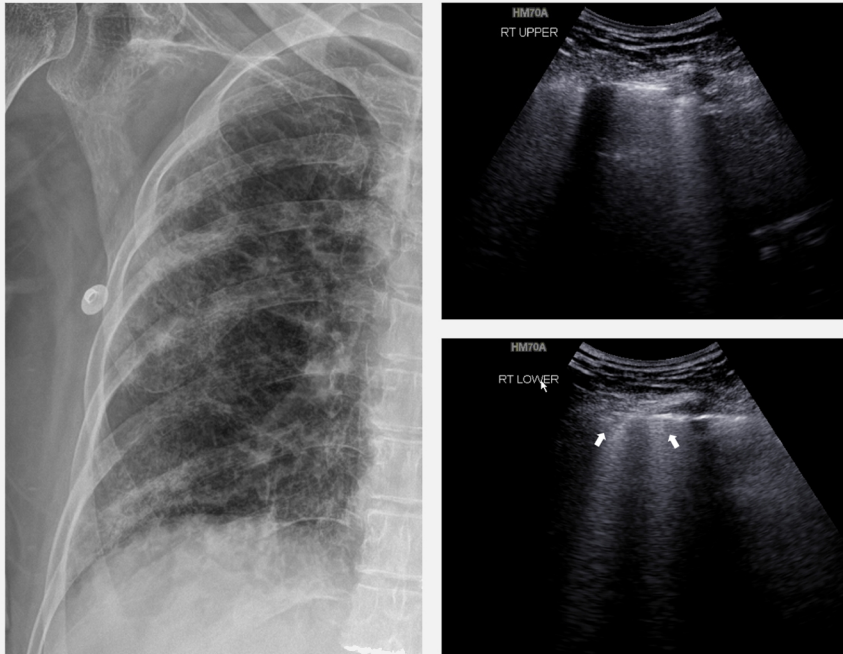
World Health Organization (WHO)

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

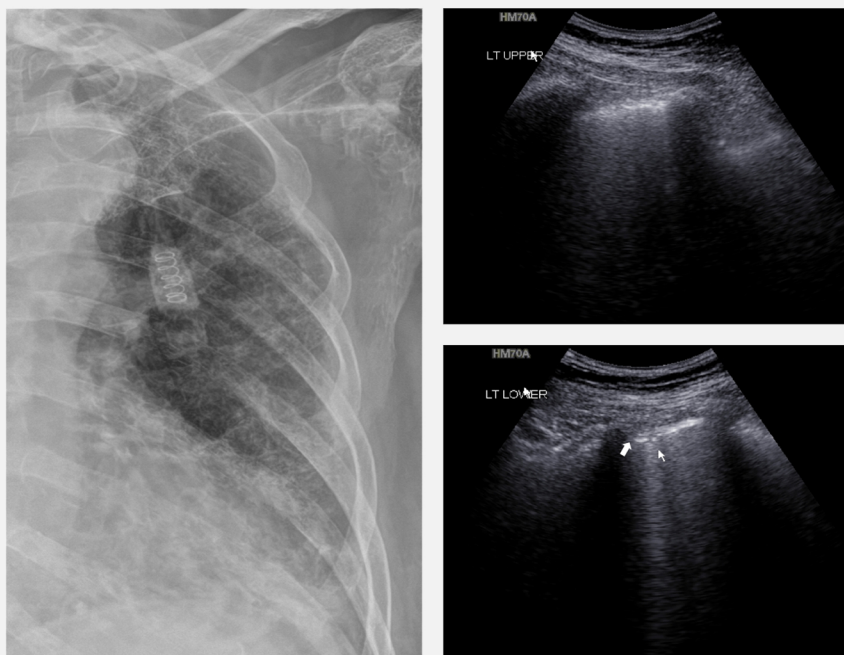


A 75-year old female patient with confirmed COVID-19 pneumonia demonstrated bilateral ground glass opacities on chest X-ray. The ultrasound aids the detection of the pleural thickening and B-lines on both lower lung field by Samsung Medison device.

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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