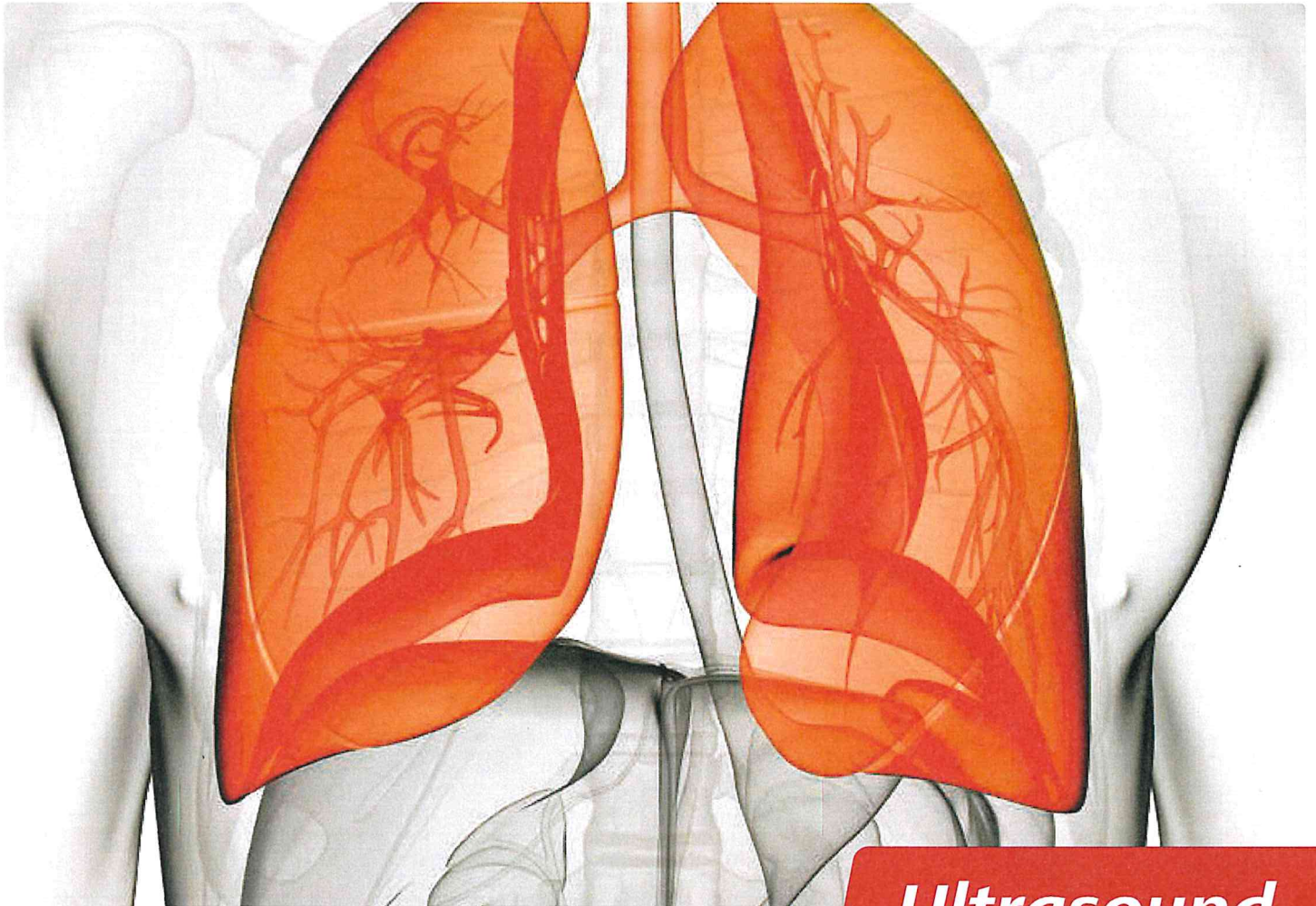


**Canon**

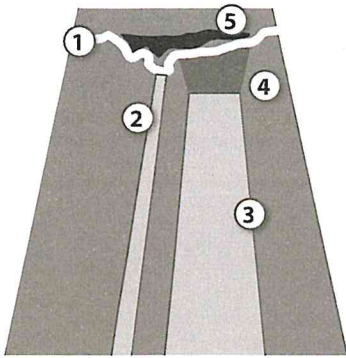


***Ultrasound***



**Quick Card**  
Lung Ultrasound  
for COVID-19





Source: Dr. Kyle Baker, YouTube: [https://www.youtube.com/watch?v=Y\\_a\\_h8FyH7c](https://www.youtube.com/watch?v=Y_a_h8FyH7c)

## Commonly observed findings in lung ultrasound performed on COVID-19 patients

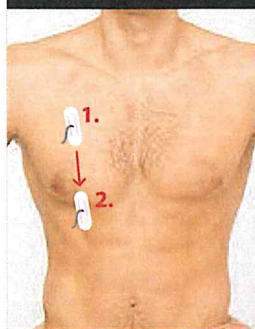
- Thickening of the pleural line with pleural line irregularity (1)
- Many B lines (2) with regional distribution
- Confluent B lines (3)
- Subpleural consolidations (4)
- Large consolidations, also with echogenic air bronchogram
- Possibly smaller pleural effusions, larger effusions are untypical (5)
- Multilobar distribution of abnormalities!

Bilateral, especially ventral, B lines without pleural thickening or consolidations might indicate pulmonary congestion.

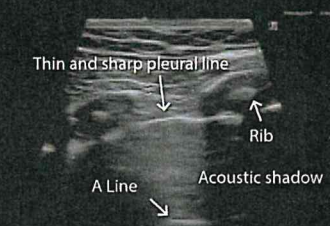
### How to Scan:

A convex transducer (e.g. abdominal, 2–5 MHz) or a linear transducer (e.g. vascular, 4–9 MHz) is recommended for scanning.

#### Thickened and irregular pleural line



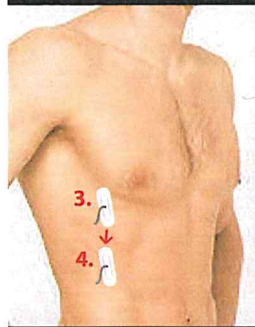
Normal – craniocaudal orientation, anterior



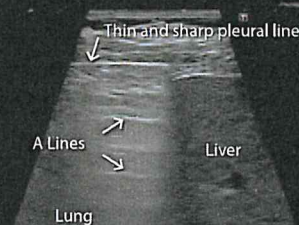
COVID-19: Pleural thickening, irregular pleura and diffuse B lines



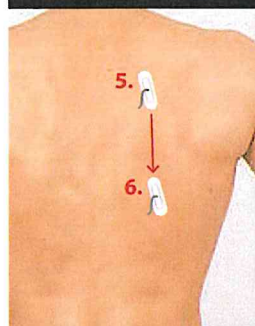
#### Subpleural consolidations (possibly air infiltrations)



Normal – lateral orientation



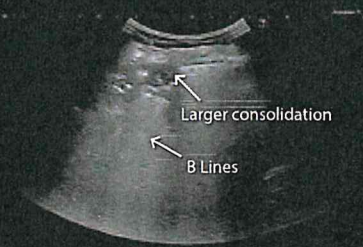
COVID-19: Small subpleural consolidation



Normal – posterior orientation



COVID-19: Irregular pleural line with thickened B lines and subpleural consolidation



Clinical images courtesy of Dr Norbert Jung, Managing Senior Physician, Endoscopy Center, Klinikum LindBreis Heidelberg gSmbH

## CANON MEDICAL SYSTEMS CORPORATION

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### Further information:

YouTube: [https://www.youtube.com/watch?v=Y\\_a\\_h8FyH7c](https://www.youtube.com/watch?v=Y_a_h8FyH7c)

Twitter: #POCUSforCOVID

Huang: [https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3544750](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3544750)

PENG: <https://link.springer.com/article/10.1007/s00134-020-05996-6>

PCGIALLI: <https://pubs.rsna.org/doi/10.1148/radiol.2029200847>

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