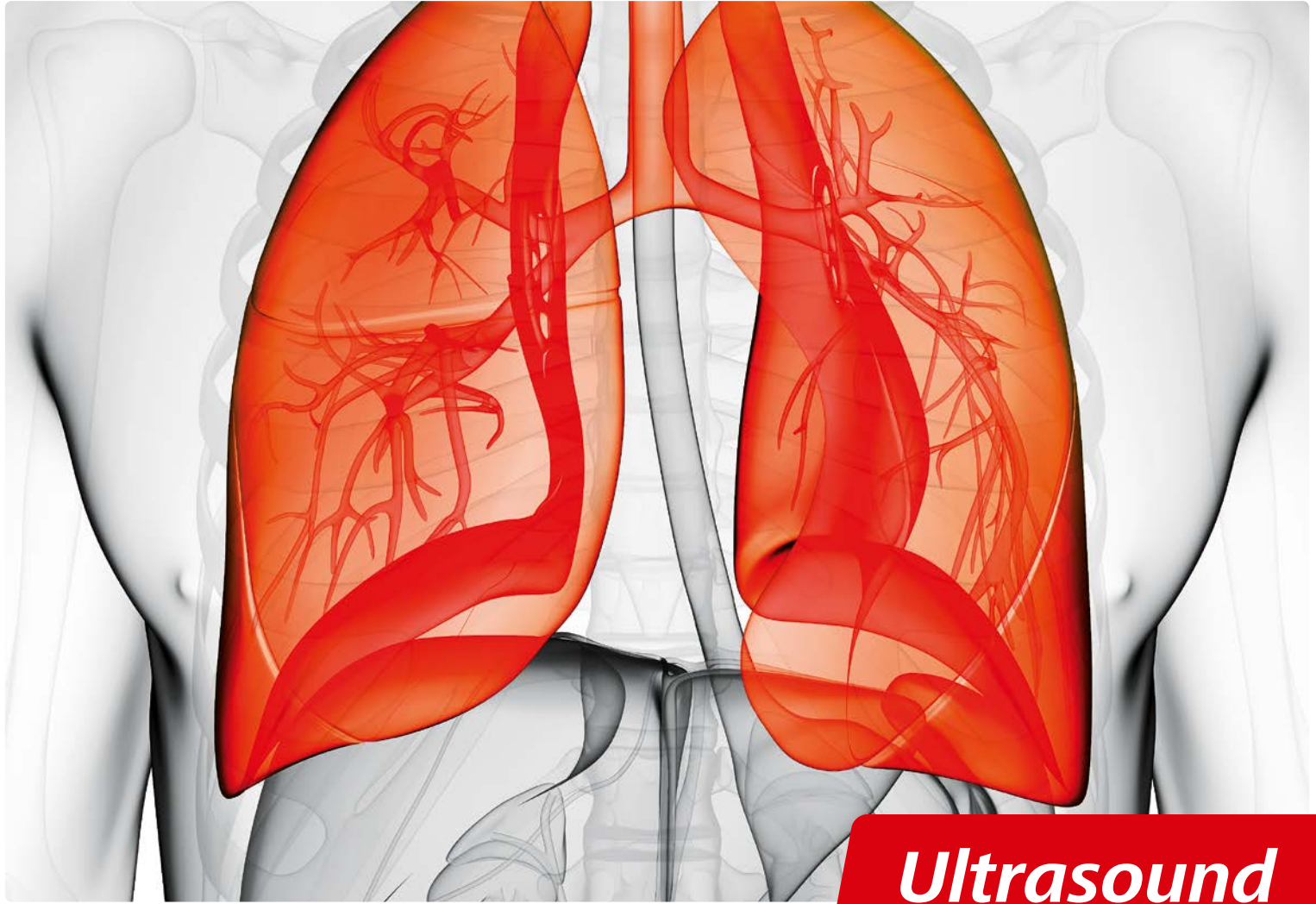


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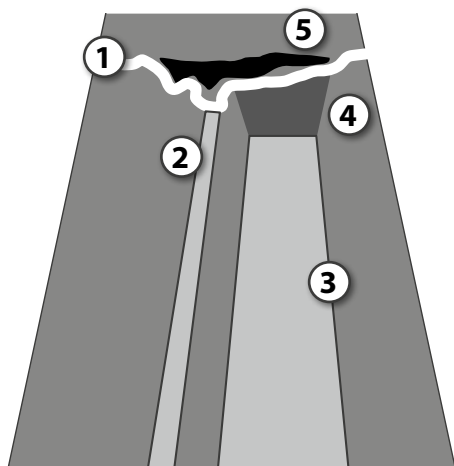


Ultrasound

Quick Card

Lung Ultrasound
for COVID-19





Source: Dr. Kylie Baker, YouTube: 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	
	<p>Normal – craniocaudal orientation, anterior</p>
	<p>COVID-19: Pleural thickening, irregular pleura and diffuse B lines</p>
Subpleural consolidations (possibly air infiltrations)	
	<p>Normal – lateral orientation</p>
	<p>COVID-19: Small subpleural consolidation</p>
	<p>Normal – posterior orientation</p>
	<p>COVID-19: Irregular pleural line with thickened B lines and subpleural consolidation</p>

Clinical images courtesy of Dr. Norbert Jung, Managing Senior Physician, Endoscopy Center, Klinikum Landkreises Heidenheim gGmbH

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 NC-463 2020-04 CMSE/Printed in Europe

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Further information:

YouTube: https://www.youtube.com/watch?v=Y_a_h8FyH7c
 Twitter: #POCUSforCOVID
 Huang: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3544750
 PENG: <https://link.springer.com/article/10.1007/s00134-020-05996-6>
 POGIALLI: <https://pubs.rsna.org/doi/10.1148/radiol.2020200847>

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