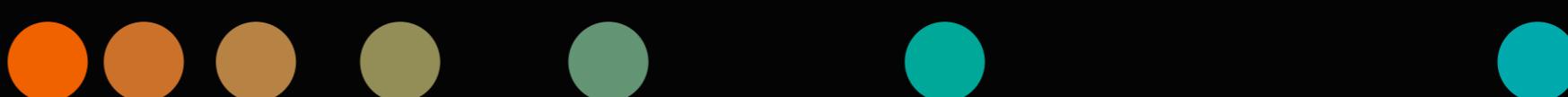


# Lung Ultrasound in COVID-19 Disease

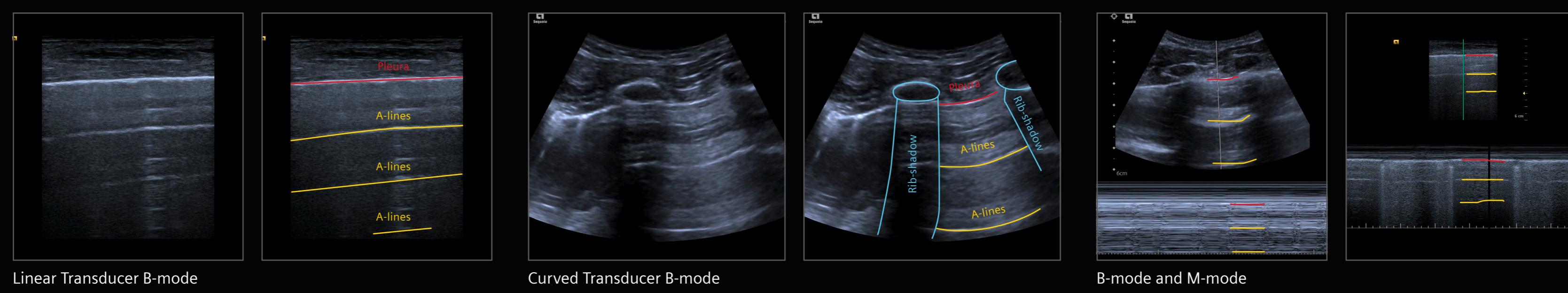
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A special thanks to:  
Ines Schroeder, MD, Department of Anesthesiology,  
University Hospital, LMU Munich, Munich, Germany



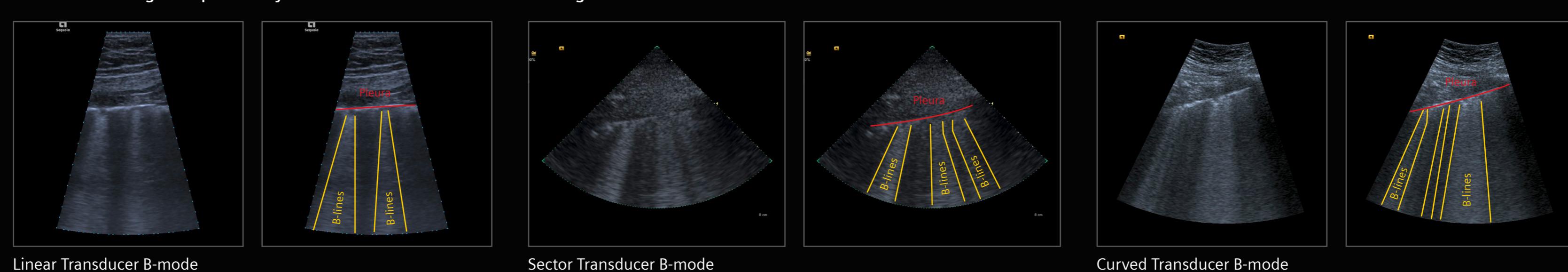
## Healthy Lung

A-Lines in normal lung/dry lung: A-lines and pleura sliding



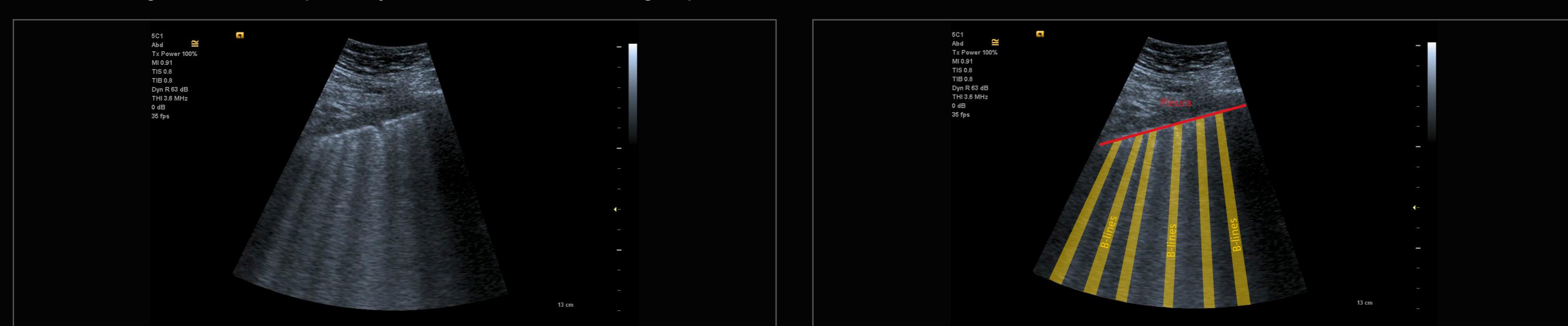
## Mild Infection

B-Lines in wet lung /mild pulmonary edema: 2–3 B-lines and reduced sliding



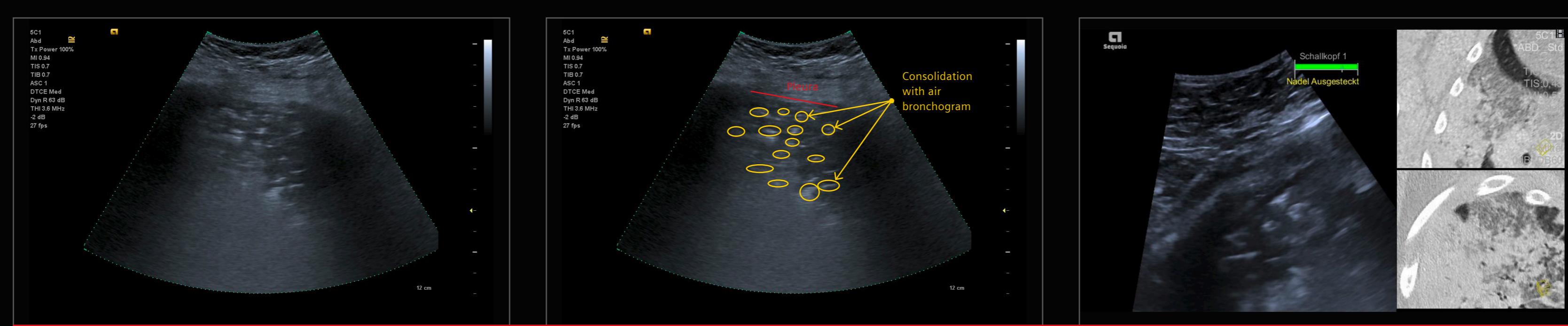
## Moderate Infection

B-Lines in wet lung: moderate / severe pulmonary edema: 4 or more B-lines and irregular pleura borders



## Severe Infection

Consolidation, severe pulmonary edema: Air Brochogram, Consolidation/ Hepatization



## Recovery Phase

Follow-up after artificial respiration of COVID-19 pneumonia on a patient in the ICU.  
An indirect sign for recovering is the appearance of A-lines during the recovery phase.

