Ultrasound features of Lung Covid 19
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Early lung Covid 19 can be difficult to detect on chest X-ray due to the pathology being peripheral, interstitial and ground glass shadowing.

Chest X-ray is insensitive to pathology behind the diaphragms and heart.

Can ultrasound be of use?

The B lines are a result of thickened lobar and intra lobar septa of an interstitial process. Other findings are subpleural fluid and soft tissue (consolidation).

The Italian experience:
1. Suggest longitudinal position of the probe across the ribs
2. Using a 3.5 MGHZ curvilinear probe for maximum depth

Peripheral ground glass shadowing can be seen on ultrasound
Central ground glass will not be seen on Ultrasound

Ultrasound can be used as a rule in of early lung Covid, not detected on CXR.
Ultrasound cannot rule out more central consolidation of Covid.

For more information and guidance: https://www.bmus.org/policies-statements-guidelines/professional-guidance/covid-19-lung-ultrasound/