新型コロナウイルス感染症流行時におけるポイントオブケア超音波

検査(POCUS) についての ASE からの提言

ASE Statement on Point-of-Care Ultrasound (POCUS) During the 2019 Novel Coronavirus Pandemic

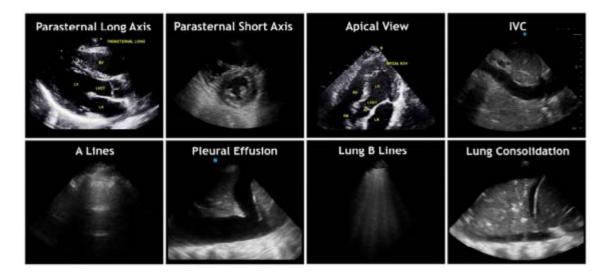
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COVID-19 感染症でなぜ POCUS を実施するのか?

<u>https://aseuniversity.org/ase/lessons/47</u> 2



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心臓の POCUS:

COVID-19
 COVID-19

4. COVID-19

- c.

肺の POCUS :

CTbronchogram sonographic consolidation \Box

表1. COVID-19感染の疑いあるいは確定した患者に対するASE POCUSプロトコー ル. COVID-19患者を評価するための、心臓、胸部および血管を含む改変POCUSプ ロトコール COVID-19 描出する 評価 関連する疾患 POCUS 構造 プロトコール 心職 心筋炎 サイズ、局所的および全体的な 急性冠症候群 左室 機能 心筋症 ショック サイズと機能. 肺寒栓 右室 可能ならTRからPASPを推定 心筋症 心膜 心膜液貯留 タンポナーデ 既存の 弁 逆流と狭窄の大まかな評価 心血管疾患 Bライン 肺水腫 (Aライン、胸膜スライディング あるいは は正常所見) 肺炎 胸膜下のsonographic 肺炎 consolidation 8 あるいは ARDS 胸膜肥厚 12点の検査 air bronchogramを伴う 肺炎 肺葉のsonographic ARDS consolidation うっ血性 胸水 心不全 JVPあるい うっ血性 は心窩部か 体液状態 心不全. 50IVC 脱水 深部静脈 下肢静脈* 2点圧迫法 血栓症 * 下肢静脈は検査者が本手法のトレーニングを受けており、臨床的に血栓の存在 を疑い、超音波検査士が不在の場合に評価する ARDS. 急性成人呼吸促拍症候群; JVP. 頸静脈拍動; IVC. 下大静脈

血管の POCUS

COVID-19 において POCUS をいつ行うのか?

POCUS
POCUS

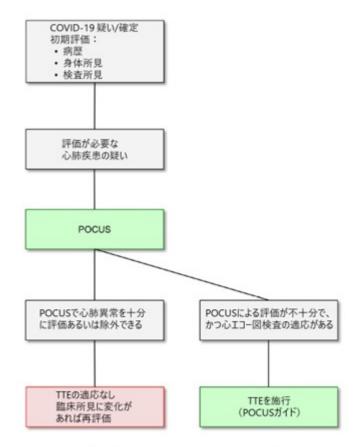


図2. COVID-19感染疑いまたは確定における POCUSワークフロー. 心肺超音波検査の適応例においてCOVID-19流行時にはPOCUSワークフローが可能となる. 検査施行可能で精査を要する心肺異常の疑いがあれば, POCUSが施行される超音波検査の第一選択となる. 熟練した検者により実施された POCUSが心肺異常を除外または診断するのに十分であれば, それ以上のTTEは必要ない. POCUSが不 十分だった場合は, 限定的または包括的なTTEが妥当であると考えられる.

PPE, 個人用保護具; TTE, 経胸壁心エコー図

Imited TTE
POCUS

COVID-19 感染においてどのように POCUS の実施するか

安全と洗浄:

 POCUS
 POCUS
 POCUS
 POCUS

 COVID-19
 POCUS
 POCUS
 POCUS

 Image: Covid of Emergency Physicians
 ACEP
 Image: Covid of Emergency Physicians

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1	PPE 注意事項の確認 時間とリスクを最小限に抑えるためのスキャン計画 検査室に入る前に機器から余分なアイテムを除去 患者のマスク(施設による)
2	スキャン後: PPEを装着してプローブ/デバイスの点検と清拭
3	病室の清掃
4	ガウンを脱いで、部屋から機器を搬出 マスクと顔面シールドをつけたまま、手を消毒し新しい手袋に交換
5	装置を再点検し、適切な薬剤を用い、メーカーが推奨する ウェット時間(通常2分間)の低水準消毒を行って、乾燥 他のPPEを外す 手袋を外して、再び手を消毒する 担当者記録、文書スキャン
	その他の検討事項
6	小分けにされた使い捨てエコーゼリーの使用を考慮
7	プローブ/デバイスのカバーを検討(施設による)
8	装置をユニット専用にすることを検討(施設による)
9	次の使用者がすぐに使える状態にしておく、知識を共有
10	施設および学会のガイダンスを定期的に見直す

PPE, 個人用保護具

画像の記録と保存:

POCUS を誰が実施すべきか?

POCUS
ASE Recommendations for Echo Labs Participating in

POCUS and Critical Care Echocardiography Training
Society for

Hospital Medicine
POCUS

Critical Care Medicine
POCUS

POCUD-19
POCUS

POCUS
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POCUS
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PocusJournal.com¹¹
ASE

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