*Data Supplement 1: Search Strategy*

MEDLINE via PubMed: ((((dyspnea OR shortness of breath OR SOB OR breathlessness OR respiratory distress OR respiratory insufficiency OR extravascular lung water OR dyspn\* OR lung diseases OR respiratory failure)) AND (ultrasound OR US OR ultrasonography OR POCUS OR sonography OR sonogram OR b-lines OR b-line OR comet tail\* OR lung comet OR point-of-care ultrasonography OR POC-US OR POC OR point-of-care systems OR artifacts OR BLUE OR Bedside lung ultrasound machine OR bedside OR echograph\* OR ultraso\* OR "Lung/ultrasonography"[Mesh] OR "ultrasonography"[sh])) AND (((Emergency AND (department OR room OR care))) OR (urgent care OR acute care OR accident and emergency OR ER OR ED OR emergency service, hospital OR emergency medical services OR emergenc\*))) AND ((((edema AND (alveolar OR pulmonary OR cardiogenic OR lung))) OR (oedema AND (alveolar OR pulmonary OR cardiogenic OR lung))) OR (congestive heart failure OR CHF OR HF OR heart failure OR cardiogenic OR pulmonary edema OR ADHF OR alveolar interstitial syndrome))

EMBASE: ‘dyspnea’/exp OR dyspnea OR shortness AND of AND (‘breath’/exp OR breath) OR sob OR breathlessness OR ‘echography’/lnk OR emergency AND department OR ‘lung extravascular fluid’/exp OR (dyspnea OR shortness AND or AND breath OR sob OR breathlessness OR respiratory AND insufficiency OR extravascular AND lung AND water OR dyspn\* OR lung AND diseases OR respiratory AND failure) OR (dyspnea OR (shortness AND of AND breath) OR sob OR breathlessness OR (respiratory AND distress) OR (respiratory AND insufficiency) OR (extravascular AND lung AND water) OR dyspn\* OR (lung AND diseases) OR (respiratory AND failure) OR (dyspnea OR shortness of breath OR sob OR breathlessness OR ‘respiratory distress’ OR ‘respiratory insufficiency’ OR ‘extravascular lung water’ OR dyspn\* OR ‘respiratory failure’) OR ‘dyspnea’/exp OR ‘respiratory distress’/exp OR ‘respiratory failure’/exp OR ‘lung extravascular fluid’/exp OR ‘lung disease’/exp OR (ultrasound OR us OR ultrasonography OR pocus OR sonography OR sonogram OR ‘b lines’ OR ‘b line’ OR (comet AND tail\*) OR ‘lung comet’ OR ‘point-of-care ultrasonography’ OR ‘point-of-care systems’ OR artifacts OR blue OR ‘bedside lung ultrasound machine’ OR bedside OR echograph\* OR ultraso\*) OR ‘ultrasound’/exp OR ‘echography’/exp OR ‘point of care testing’/exp OR ‘hospital information system’/exp OR ‘artifact’/exp OR (emergency AND (department OR room OR care )) OR (‘urgent care’ OR ‘acute care’ OR accident and emergency’ OR er OR ed OR ‘emergency service, hospital’ OR ‘emergency medical services’ OR emergenc\*) OR ‘emergency ward’/exp OR ‘emergency care’/exp OR (edema AND (alveolar OR pulmonary OR cardiogenic OR lung)) OR (oedema AND (alveolar OR pulmonary OR cardiogenic OR lung)) OR (‘congestive heart failure’ OR chr OR hf OR ‘heart failure’ OR cardiogenic OR ‘pulmonary edema’ OR adhf OR ‘alveolar interstitial syndrome’) OR ‘lung edema’/exp OR ‘acute heart failure’/exp

Cochrane Library: dyspnea or shortness of breath or breathlessness or respiratory distress or respiratory insufficiency and ultrasound or echography or ultrasonography or sonography or sonogram or b-lines or b-line or comet or point-of-care or artifacts and emergency or urgent care or acture care or ED or ER and lung edema or congrestive heart failure or heart failure or oedema or CHR or ADHF or alveolar interstitial syndrome or edema