

The list of 10 M-PoCUS diagnosis and the corresponding ultrasound findings

| M-PoCUS diagnosis                            | Organ evaluation | Finding                                                                                                                                  |
|----------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Cardiogenic pulmonary edema               | Heart            | Mild to moderate LV dysfunction or severe LV dysfunction <sup>a</sup>                                                                    |
|                                              | Lung             | Diffuse B pattern <sup>a</sup>                                                                                                           |
|                                              | IVC              | IVC diameter > 17 mm with no inspiratory collapse (IVC collapsibility index <0.5)                                                        |
| 2. Bilateral alveolar interstitial syndrome  | Lung             | Newly developed Bilateral involvement of B pattern and/or consolidation ± pleural abnormality                                            |
| 3. Unilateral alveolar interstitial syndrome | Lung             | Newly developed Unilateral involvement of B pattern and/or consolidation ± pleural abnormality                                           |
| 4. Pleural effusion (moderate to large)      | Lung             | Anechoic or echoic space between the parietal and visceral pleura and interpleural distance ≥ 25 mm                                      |
| 5. Pulmonary embolism                        | Heart            | RV dysfunction <sup>b</sup> (RV dilatation and/or RV strain)                                                                             |
|                                              | Lung             | Triangular or rounded consolidations of at least 0.5 cm in size <sup>b</sup>                                                             |
|                                              | Lower extremity  | Deep vein thrombosis <sup>b</sup>                                                                                                        |
| 6. Cardiac tamponade                         | Heart            | Pericardial effusion with Right atrium collapse and/or Right ventricle collapse during early diastole                                    |
| 7. Pneumothorax                              | Lung             | Presence of lung point, no lung sliding, no lung pulse, no B-lines, and no consolidation                                                 |
| 8. Hypovolemic, distributive                 | Heart            | Hyperdynamic <sup>a</sup>                                                                                                                |
|                                              | Lung             | No interval change or normal lung pattern                                                                                                |
|                                              | IVC              | IVC diameter < 12 mm with spontaneous collapse (IVC collapsibility index ≥0.5) <sup>a</sup>                                              |
| 9. Tumor progression                         | Lung             | Newly developed rounded or polycyclic consolidation or interval increase size of consolidation ± pleural effusion ± reduced lung sliding |
| 10. normal or other disease                  | Heart            | Normal <sup>a</sup>                                                                                                                      |
|                                              | Lung             | No interval change or normal lung pattern                                                                                                |
|                                              | IVC              | Normal <sup>a</sup>                                                                                                                      |

LV= left ventricle; RV= Right ventricle

<sup>a</sup> necessarily present    <sup>b</sup> At least one of these signs