























## Guidelines on Adult Critical Care Ultrasonography (CCUS)

### SYMBOL KEY:

#### Strength of Recommendation

- Strong Recommendation For:    
 Conditional Recommendation For:   
 Conditional Recommendation Against:   
 Strong Recommendation Against:  

#### Quality of Evidence

- Very Low:      
 Low:      
 Moderate:      
 High:    

This infographic visualizes results of a focused update to guidelines previously issued in 2015-2016 by the Society of Critical Care Medicine (SCCM).

**POPULATION: Adult Critically Ill or Injured Patients**  
 (Specific recommendations for pediatric patients are not made.)

### Cardiac Arrest



Conditional Recommendation  
For or Against



**1. We suggest** either using CCUS or usual care without CCUS to guide management of adult patients in cardiac arrest.

### Septic Shock



Conditional Recommendation For



**2. We suggest** using CCUS in the management of adults with septic shock to improve clinical outcomes.

### Acute Dyspnea or Respiratory Failure



Conditional Recommendation For



**3. We suggest** using CCUS to aid with diagnoses and to guide management of adults with acute dyspnea or respiratory failure to improve clinical outcomes.

### Targeted Volume Management



Conditional Recommendation For



**4. We suggest** the use of CCUS for targeted volume management compared with usual care without CCUS in acutely ill adult patients to improve clinical outcomes.

### Cardiogenic Shock



Conditional Recommendation For



**5. We suggest** the use of CCUS compared with usual care without CCUS in adults with cardiogenic shock to improve clinical outcomes.

### KEY MESSAGES

- Critical care ultrasonography (CCUS) is point-of-care ultrasonography performed and interpreted by the treating clinician of critically ill patients, regardless of the hospital setting, to augment diagnosis, manage care, and guide invasive procedures.
- In the application of these guidelines, we assume that practitioners performing CCUS have appropriate equipment, training, and competency.