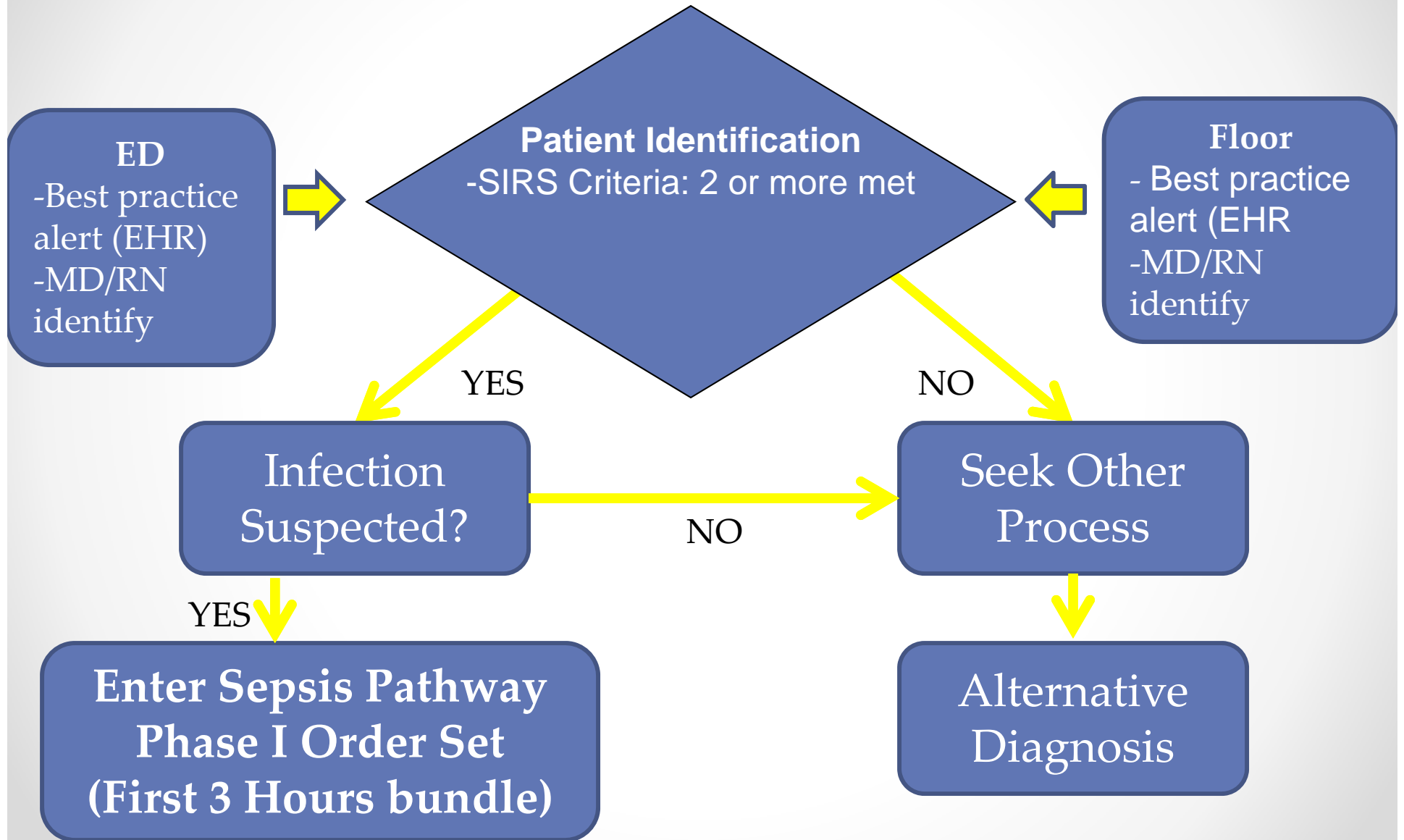


Sepsis Algorithm

Phase I



3 Hour Bundle

Phase I

Simultaneously

Diagnostic Work Up

- Labs: CBC, CMP, INR, Lactate, UA
- *Repeat 3 hr lactate if initial level > 2.5

Plus

Source ID

- Cultures: Blood, Urine, Sputum, Obvious Site (before Abx when able)
- Diagnostic Imaging: CXR, US, CT

IV Fluid Administration

- 30 cc/kg Bolus (use care in CHF)
- Lactated Ringers Preferred

Plus

Antibiotic Initiation

- Administer < 60 min from order set activation (do not wait for Cx)
- Initiate Appropriate Abx Regimen in Order Set
- Antibiotic Stewardship Consult

Hemodynamic Management (After initial 30cc/kg)

Simultaneously

Is Shock Present?

Elevated Lactate, MAP < 65, Low UOP,
Altered Mentation, Mottled Skin, Rise in
Biomarkers (Creatinine, LFTs, Troponin)

No

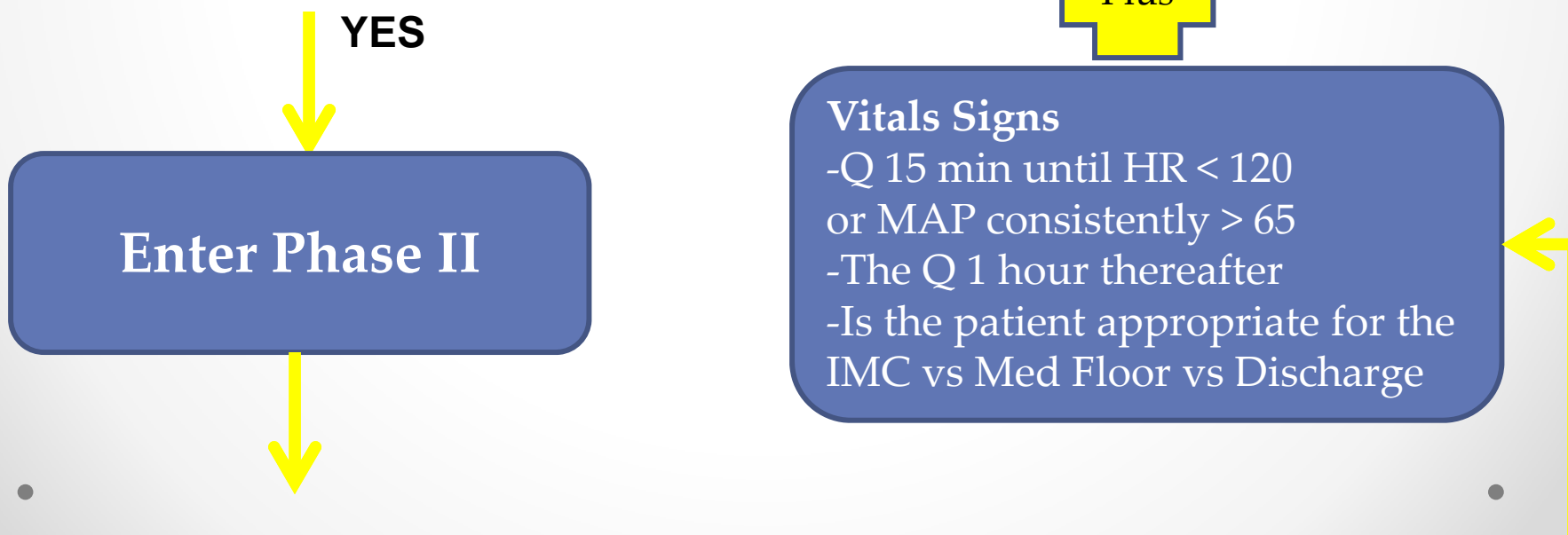
Continuous Cardiac Monitoring

Plus

Vitals Signs

- Q 15 min until HR < 120
or MAP consistently > 65
- The Q 1 hour thereafter
- Is the patient appropriate for the
IMC vs Med Floor vs Discharge

Enter Phase II

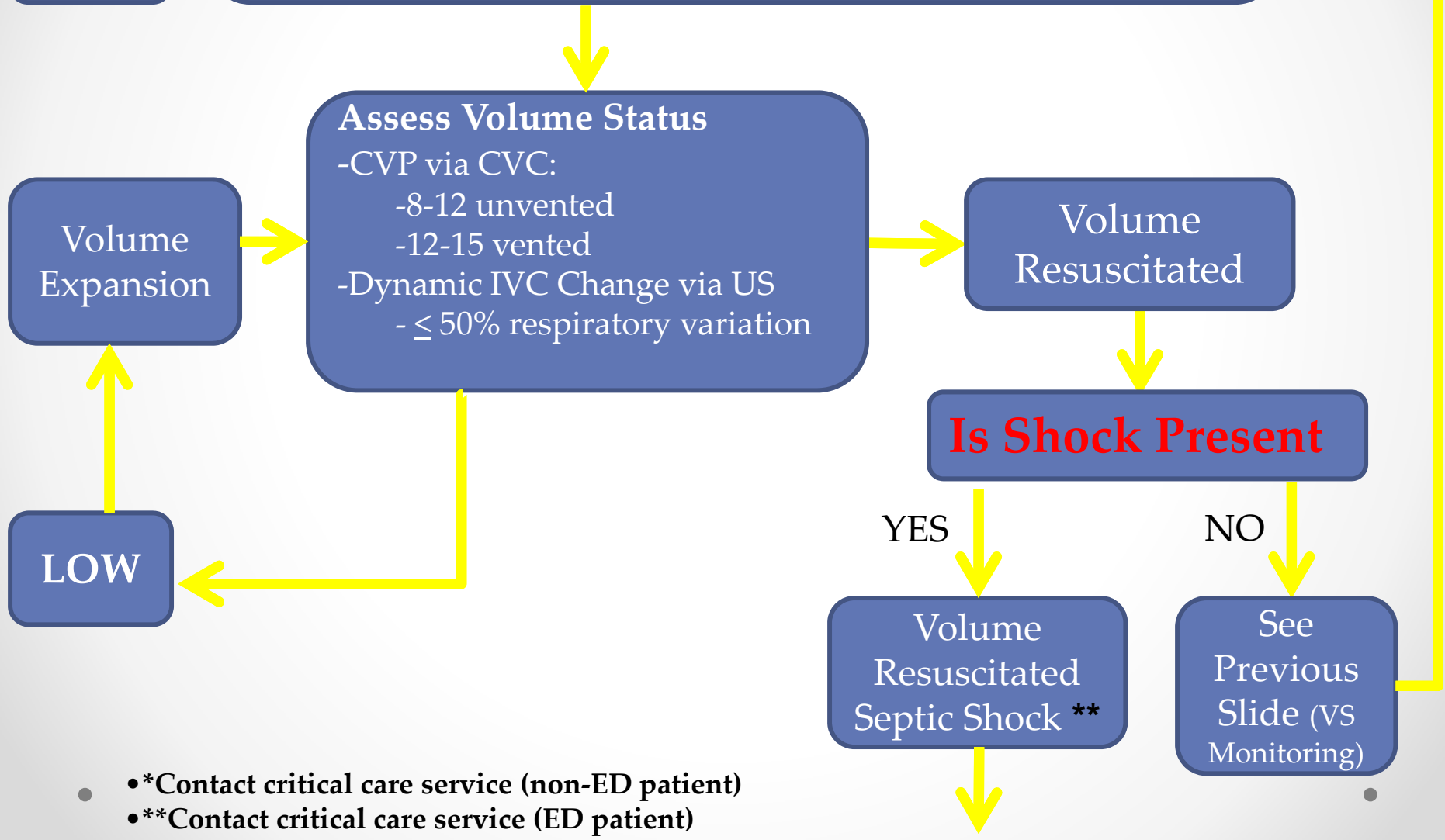


Within
6 hrs

Phase
II

Septic Shock Pathway

Sepsis with end organ damage*
(Elevated Lactate, MAP < 65,
Low UOP, Altered Mentation)



Volume Resuscitated Septic Shock

(As Assessed By CVP or US)

Still Evidence of Shock

Simultaneously

Vasoactive Medications

- Norepinephrine #1
- Vasopressin #2
- Epinephrine #3
- Dopamine Considered
- Phenylephrine Not Recommended

CVC Placement

Arterial Line Placement

- Maintain Adequate Volume Status
- Target MAP ≥ 65 (consider higher)
- Target ScVO₂ of 70%*
- Consider Evaluation by ECHO
- Target UOP >0.5ml/kg/hr
- Source Control and Abx
- Frequent Patient Assessments and Serial Lactate Monitoring
- If On High Doses of Pressors, Stress Dose Steroids are Recommended**

*If the target of a MAP ≥ 65 is met with a markedly reduced ScVO₂ or rising lactate, consider inotropic support (Dobutamine/Milrinone) as well as the potential effects of anemia.

- **High doses or pressors = the use of 2 or more pressors. Recommending Hydrocortisone 50 mg IV Q 6 hrs. Once pressors are off for 24 hours, discontinued use of steroids is recommended.

Once Shock Is Resolved

With Pressors

- Routine Volume Assessment; Maintain Euvolemia
- Lactate Q 6 hrs; Target < 4.0
- ScVO₂; Target 70%
- Other Assessment of End Organ Damage
- Tailor Abx Regimen to Cx Data

Considerations

- Need for Intubation*
- Hemodynamic (eg FloTrac) Monitoring
- Ensure Contact with Next of Kin
- Anti-Microbial Stewardship
- Rehabilitation Consult
- Palliative Care Consultation

Without Pressors

- Lactate Q 6 hrs; Target < 4.0
- Tailor Abx Regimen to Cx Data
- Maintain Euvolemia

Disposition Criteria

* If a patient requires mechanical ventilation and meets the definition of ARDS, lung protective ventilation is recommended

Disposition Guidelines

ICU Admission:

- Volume resuscitated septic shock
- Intubation
- Pressors
- Persistent hemodynamic instability
- Impending intubation
- Higher level of nursing care (ie. 1:1 care)

Intermediate Care Unit Admission:

- MAP >65 w/o pressors
- Shock present initially, now resolved
- Improving hemodynamic profile
- No foreseen respiratory failure
- No need for 1:1 nursing

Hospital Floor Status or D/C:

- Shock never present
- pH > 7.3
- Lactate normal
- Urine output >.5cc/kg
- Hemodynamic stability
- Airway stability
- Higher level of care (ie. ICU) exceeds goals of care (ie palliative care)