

adult.  
Sepsis Care  
program



# 1

# Adult Sepsis Screening Tool

To be used upon ED triage and when sepsis is suspected

## Goals of Sepsis Care

- To identify a severely septic patient
- To administer appropriate antibiotics and *Early Goal-Directed Therapy* as soon as possible.
- Antibiotics should be administered **within 60 minutes** of patient being identified as severely septic.

### 1 Suspected/Possible Infection

Yes     No

If yes, proceed to #2.

### 2 Systemic Inflammatory Response Syndrome (SIRS)?

Yes     No

Temp < 36.0°C or ≥ 38.0°C

Yes     No

Resp Rate > 20/min

Yes     No

Heart Rate > 90/min

If at least **2 yes's**, proceed to #3.

### 3 Possible Sepsis!

a) Assign to bed and **NOTIFY MD** as soon as possible

b) Draw blood for:

- Lactate
- Venous blood gas
- CBC, differential
- Na, K, Cl, Creatinine, Urea, Glucose
- Albumin
- AST, ALT, ALP, Total Bili
- Two sets of blood cultures

c) Reassess patient frequently

## URGENT

### Organ Dysfunction!

Yes     No

BP (systolic < 90 or MAP < 65)

Yes     No

Acute mental status change

Yes     No

O<sub>2</sub>Sat < 90%

If at least 1 yes  
and/or lactate ≥ 4.0  
and/or venous pH < 7.32  
and/or HCO<sub>3</sub> < 22:

### Possible SEVERE Sepsis

Notify MD immediately and  
proceed to page **2** :  
**Antimicrobial Management.**

**Reassess patient frequently.**

# 2

## Adult Sepsis Antimicrobial Management

*Use for patients suspected to be severely septic*

**1 Draw Blood Cultures**

**2 Prescribe APPROPRIATE Antimicrobial Agents >**

**Consider the following:**

- source of infection
- allergies
- appropriate dose
- co-morbidities (e.g. Diabetes)
- immune status (e.g. Neutropenia)
- recent exposure to:
  - hospital/health care institution
  - antibiotics
  - procedures (e.g. surgery, catheter, device)

**Prescribe Initial Empiric Antibiotics**

Please see ER Adult Severe Sepsis/Septic Shock Order Set for antibiotic recommendations.

**3 Prescribe Initial Fluid Bolus (30 mL/kg)**

**4 Communicate Verbally with RN**

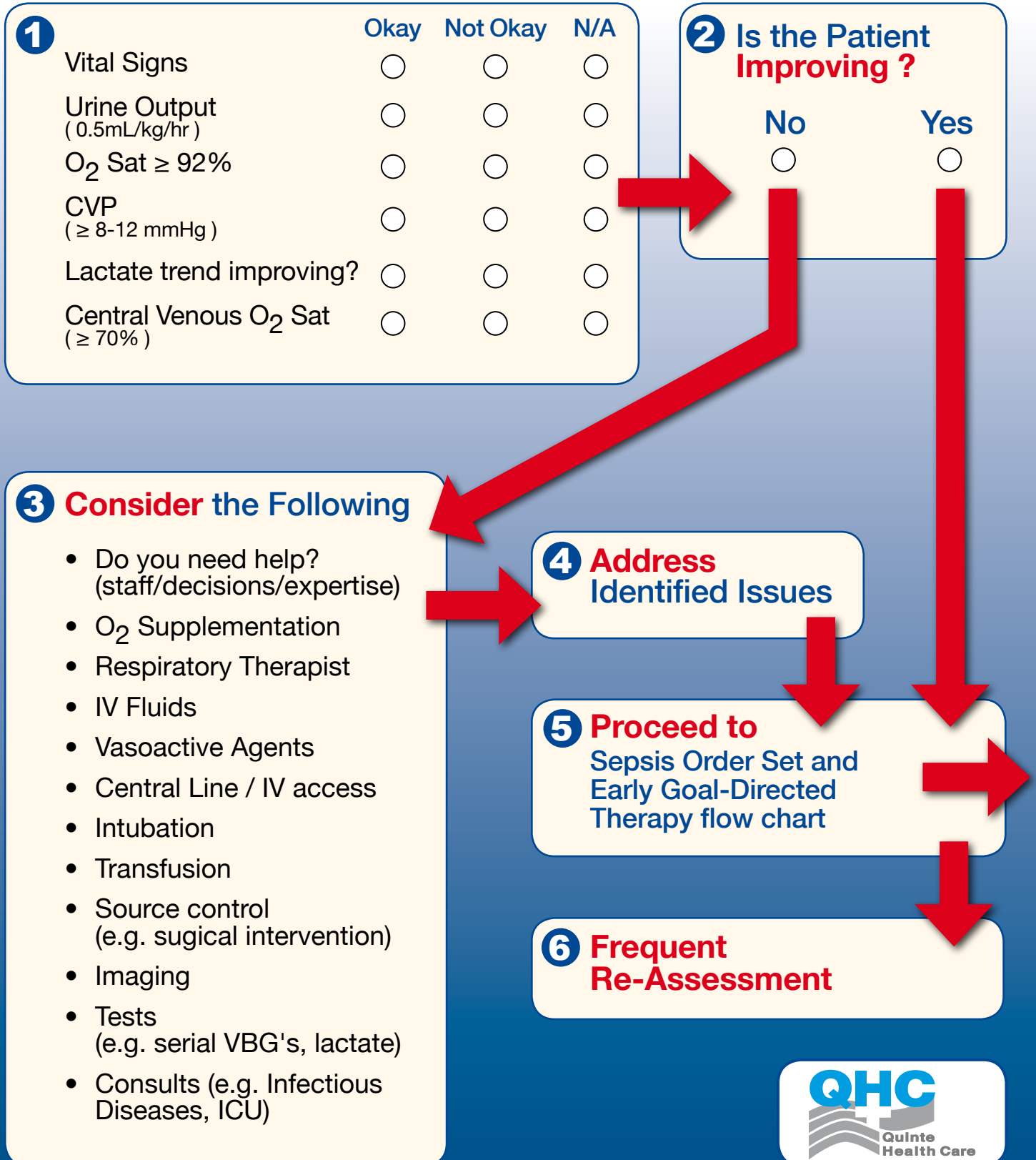
- Emphasize Urgency
- Establish multiple IV access sites
- MD to insert central line if required

**5 Proceed to the Sepsis Management Flowchart**

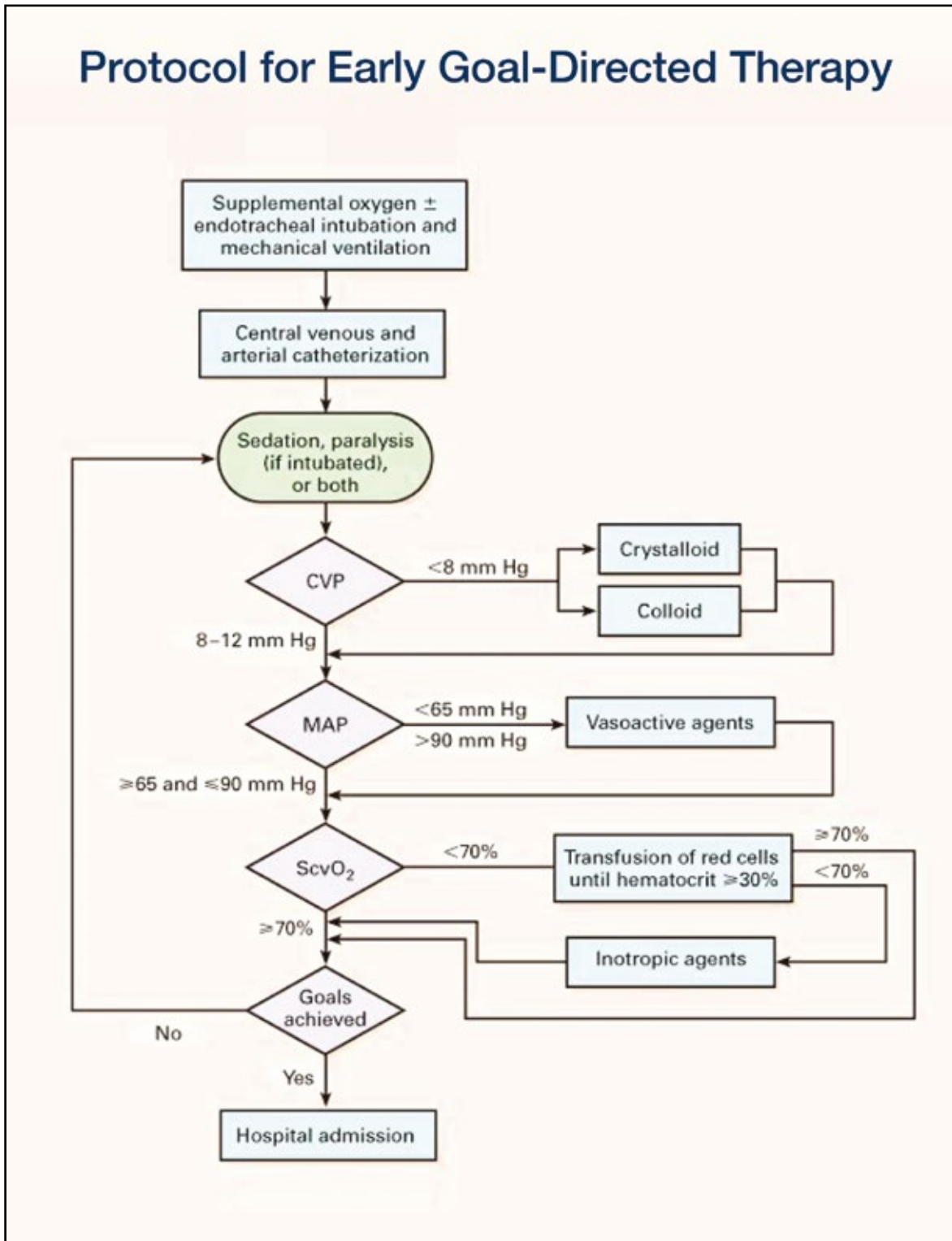
# 3

## Sepsis Management Flowchart

Severe Sepsis Collaborative Assessment and Management



# Protocol for Early Goal-Directed Therapy



## Acknowledgements

This document is adapted from the Kingston General Hospital 'Adult Sepsis Care Program' package with permission of Dr. Roy Ilan.

## References

1. Dellinger RP et. al. (2013) Surviving Sepsis Campaign: International Guidelines for Management of Severe Sepsis and Septic Shock: 2012. *Critical Care Medicine*, Volume 41, Number 2, p. 580-637
2. Rivers EP, Ahrens T (2008) Improving Outcomes for Severe Sepsis and Septic Shock: Tools for Early Identification of At Risk Patients and Treatment Protocol Implementation. *Critical Care Clinics* 23 S1-S47