

# Clinical Scenario

Sepsis - UTI Local Infection

#### Scenario:

32 y/o F who was seen in ED 2 days prior and dx'd with UTI given Rx po antibiotics and discharged, returns to ED c/o worsening pain, n/v, chills with fevers.

#### **ED Course:**

Initial VS: 38.9 °C, 135, 98/58, RR 30 Labs: WBC 26.0, lactic acid 2.9, Creatinine 2.8 (0.9 2 days ago), K 2.8, Na 132, UA + WBC 11-25, 3L IVFs, Bld Cxs drawn, Rocephin IV, Fentanyl IV

#### At Time of Decision to Admit:

Mental Status: Alert and Oriented X3 **VS:** 99% room air, R 26, BP 118/66, P 106 -123 Pain: Improved post ED meds

**Documented Principal Problem**: Severe sepsis Documented Active Problem(s): Pyelonephritis

#### **Recommended Workflow**

- C- Consider appropriate care setting
  - Hospitalization
- A- Ask what the principal diagnosis is?
  - · Sepsis due to UTI
- R- Review INPT guideline first, then OBS
  - UTI, INPT Criteria MET
- E- Enter bed status / level of care order
  - INPATIENT
- D- Document criteria in medical record

## **✓** INPATIENT

#### ✓ Hemodynamic instability

- Vital sign abnormality not readily corrected by appropriate treatment
  - Tachycardia >100\*
- Altered mental status that is severe or persistent
- Persistence or worsening of clinical finding despite observation are
- Pregnancy with suspected pyelonephritis
- Kidney transplant recipient with suspected pyelonephritis
- Significant uropathy (eg, obstructive defects, moderate to severe vesicoureteral reflux)
- Suspected infection of an indwelling prosthetic device, stent, implant, or
- Ureteral obstruction
- Bladder emptying significantly impaired (eg, bladder outlet obstruction)
- Renal or perinephric abscess
- Emphysematous pyelonephritis or cystitis(16)(17)(18)
- Pyonephrosis
- AKI (Stage 3)
- AKI (Stage 2)
- Need for IV hydration support (eg, inability to maintain oral hydration) despite observation care

\* Sustained

### OBSERVATION

- Immunosuppressed patient
- Vital sign abnormality
- Altered mental status
- Tachypnea
- Metabolic derangement (eg, dehydration, acidosis)
- Evidence of end organ dysfunction (eg, rising creatinine, myocardial ischemia, rising liver function tests)
- Ability to maintain hydration orally unclear
- Significantly elevated markers of
- Need for clinical observation of response to treatment or until results of diagnostic studies (eg, cultures, fluid analysis) are available or while treatment at lower level of care is
- Fever in infant age 29 days to 90 days

### **Teaching Points:**

- Document vital signs including 02 saturation on room air and oxygen device post ED treatment
- If a specific infectious diagnosis is made or strongly suspected (ie, treatment plan directed at this diagnosis alone), the appropriate guideline for that condition should be used whenever possible (eg, acute viral illness, cellulitis, diverticulitis, endocarditis, febrile neutropenia, gastroenteritis, meningitis, osteomyelitis, pelvic inflammatory disease, pericarditis, pneumonia, septic arthritis, urinary tract infection).
- The current definition of septic shock for adults, in turn, is that subset of septic patients who despite adequate fluid resuscitation are hypotensive and require vasopressor therapy to maintain a mean arterial blood pressure of 65 mm Hg or more, and have a serum lactate level greater than 18 mg/dL (2 mmol/L)
- For patients with a generalized febrile illness suspected or known to be of viral etiology (eg, positive influenza or coronavirus disease 2019 (COVID-19) test), the Viral Illness, Acute guideline is appropriate.
- If the etiology of the infection is unknown (ie, may be viral, bacterial, or fungal), the Sepsis and Other Febrile Illness, without Focal Infection guideline is appropriate.





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