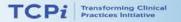


# E-QUAL EMERGENCY QUALITY NETWORK

2018 Sepsis Wave III Measures Update







### Disclosures & Disclaimer

- Centers for Medicare and Medicaid Innovation: ACEP TCPI
- Contracted with Centers for Medicare and Medicaid Services to develop hospital outcome and efficiency measures
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## Presenter



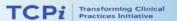
Arjun Venkatesh, MD, MBA, MHS





# 2017: Sepsis Wave II was a Success

- 382 EDs engaged in Wave II including over 16,000 clinicians
- Over 1,100 MIPS Improvement Activity Credits Earned
- 79.3% of sites showed improvement in sepsis care during 2017





# 2018: Sepsis Wave III

- Over 500 ED sites including over 20,000 emergency clinicians signed up!
- 3 Data Submission Options
  - ▶ ACEP Clinical Emergency Data Registry → No Change
  - ▶ Preliminary SEP-1 performance → No E-QUAL changes (*Beyond CMS changes*)
  - ▶ Quick Chart Review → New 2018 Denominator

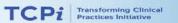




# ACEP CEDR Sepsis Measure Updates

- 5 EDs successfully mapped sepsis measures to CEDR in 2017
- 2018 ACEP CEDR sepsis measures update: bundle scoring
  - Based on CMS request, the 5 ACEP CEDR Sepsis Measures will be collapsed to 3 for MIPS reporting:
    - ▶ Initial Sepsis Bundle: Initial Lactate AND 1L IV fluid bolus AND IV Antibiotics ordered
    - ▶ Repeat Lactate: Serum Lactate measurement ordered following an elevated Serum Lactate
    - Lactate Clearance (outcome): **Serum Lactate** measurement following an elevated Serum Lactate (>2 mmol/L) with a **Lactate Clearance** rate of ≥ 10%
- 2019: likely updates to denominator based on E-QUAL insights







# SEP-1 Option

### Severe Sepsis Bundle

- Within 3 Hours
  - ▶ Measure **serum lactate**
  - ▶ Obtain **blood cultures** prior to antibiotics
  - ▶ Administer broad spectrum antibiotics
- Within 6 Hours
  - Repeat measurement of serum lactate if initial is > 2.0 mmol/L

### Septic Shock Bundle

- Within 3 Hours
  - ▶ Complete the Severe Sepsis Bundle
  - Resuscitation with 30mL/kg of crystalloid fluids
- Within 6 Hours
  - ▶ Complete the Severe Sepsis Bundle
  - Repeat volume status and tissue perfusion assessment
  - Administer vasopressors





## **SEP-1 Exclusions**

- Patients under the age of 18
- Patients with LOS greater than 120 days
- Directive for comfort measures within 6 hours of presentation of severe sepsis or septic shock
- Transfer in from another acute care facility

- Patients with severe sepsis / septic shock who are discharged or expire within 6 hours of presentation
- Patient/caregiver refusal for care that must be documented by provider
- Patients receiving IV antibiotics for more than 24 hours prior to presentation





# **SEP-1 Updates**

- V 5.3 Updates New Exclusions
  - Clinical trial exclusion
  - Patient refusal of IV fluid
  - Viral, Fungal and Parasitic Infections includes Influenza
- V 5.3 new definitions
  - ▶ Antibiotics: IM/IO antibiotic administration allowed if documented IV access difficulty
  - IV Fluids
    - ▶ Ideal Body Weight (IBW) permitted for IV fluids
    - ▶ Fluid orders within 10% of 30cc/kg (i.e 2L ok for 70kg patient)
    - IV fluids used to dilute medications count
  - ▶ Initial lactate: now document that elevation NOT an infection (requires acute condition and source)
  - Severe sepsis unlikely = NOT severe sepsis
  - Screening Tests don't = sepsis

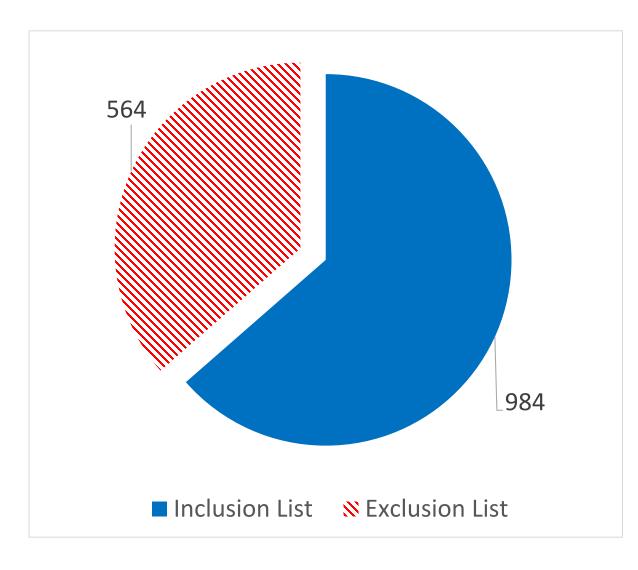




# **Quick Chart Review Option**

- Minimum 20 severe sepsis and septic shock charts per data collection period.
- Abstract 10 data elements per chart.
- Aligned with ACEP CEDR metrics Severe Sepsis and Septic Shock Denominator
  - ▶ Based on ED diagnosis:
    - septic shock
    - sepsis and hypotension
    - infection and hypotension
  - ▶ All ED visits for patients age 18 years older with septic shock.





### New List of ICD-10 Codes

- Newly Removed: chronic and unspecified infections and conditions
- Removed based on review of clinical significance leading to sepsis.
- Current Inclusion List: acute infections associated with an organism
- Focused list resulting in a more precise septic shock denominator.







# **Example Exclusions**

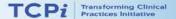
Chronic meningococcemia	A39.3
Chronic pulmonary coccidioidomycosis	B38.1
Chronic pulmonary histoplasmosis capsulati	B39.1

Unspecified enophthalmos, left eye	H05.402
Unspecified enophthalmos, bilateral	H05.403
Unspecified enophthalmos, unspecified eye	H05.409

# **Example Inclusions**

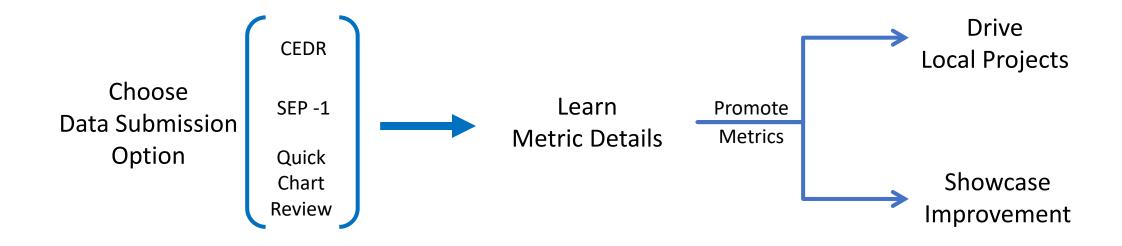
Pneumonia due to Streptococcus pneumoniae	J13
Pneumonia due to Hemophilus influenzae	J14
Pneumonia due to Klebsiella pneumoniae	J15.0

Urinary tract infection following incomplete spontaneous abortion	O03.38
Cellulitis of right finger	L03.011
Cellulitis of left finger	L03.012





### Bottom Line – For Wave III



"In God we trust, all others bring data" – W. Edwards Deming





## For More Information

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