

#### **Billings Clinic**

# Early Sepsis Identification at the Point of Triage

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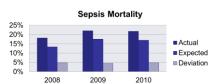
- Community-owned health care organization
- 272 bed hospital
- Magnet Designation

#### Purpose

- Sepsis is the 10<sup>th</sup> leading cause of death in the United States
- Patient's admitted with septic shock have 46% mortality rate
- · Mortality increases with delay in treatment



#### What our data showed



Our actual mortality exceeded our expected mortality

#### Something had to be done!

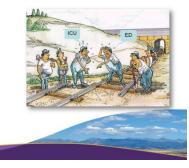
#### Goal

- Improve mortality
  - Early identification
  - Patient placement for treatment
    - Up to 3 patients per month were transferred to ICU within hours of admission to the hospital with Sepsis



## **Multidisciplinary Team**

- ICU
- ED
- Pharmacy
- Med-SurgInformatics



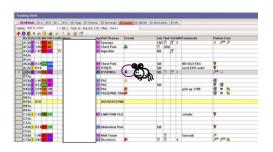
#### Process

- ED triage
- Computerized cue
- Standard order sets
- Guidelines for patient placement
- Nursing and medical staff education

#### ED initial triage and screening







ED Identifier

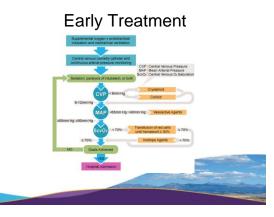
#### ED 2<sup>nd</sup> Screening

	09/12/2011		
	14:55 14:49 14:43 14:41	13:05	12:49
- Sepsis Screening		and all the second	
Screen Criteria for Possibl	Screen Criteria for Possible Sepsis	×	Possible infecti
Screen For Sepsis	Possible infection		Yes
- Pain	Temperature > 100.4 F	_	
- Pain	Temperature < 96.8 F		
No complaint of pain	✓ Heart rate > 90		
Pain Scale Used	Respiratory rate > 20		
Pain Location	PaC02 < 32		Other: pelvis
Pain Intensity/Score	Mechanical ventilation		
Pain Interventions	BP MAP < 65		
Pain Quality	SBP drop of 40 from baseline		
Pain History/Comments	New mental status change	ain to left	
- Additional Pain		001460100010	
- HEENT	WBC < 4,000		
Eye, Right Visual Acuity	WBC diff showing > 10% immature neutrophils		
Eye, Right w/Correction V	Other		
Eye, Left Visual Acuity			
Eye, Left w/Correction Vis			

## Admit to ICU

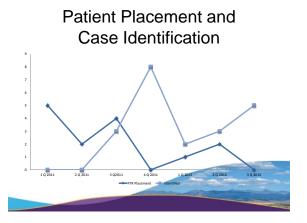
- Suspected Sepsis
- Lactate >3
- Greater than 2 organ failure





#### Med-Surg Education Med-Surg Involvement Mandatory Classes Sepsis Case Studies · Failure to recognize individual case Blood 111 0 reviews Fluids · Vasopressors Face mask oxygen r Eli Lilly

# DEATH al ventilation



#### Latest Outcomes

