ABSTRACT
The Early Warning Sepsis and Septic Shock Bundles at UMC El Paso focused on best practice, interdisciplinary education, consistent reinforcement and modification of the EMR to address sepsis. Statistical analysis of early warning signs to include patients throughout the care continuum lead to modifications and custom build in the EMR system to include integration of both the 3-hour & 6-hour Bundles with a team approach throughout the care continuum. AMS (Antimicrobial Stewardship) guidelines were incorporated in the EMR build. A retrospective and concurrent review of EMR documentation and follow-up showed a marked increase (up to and exceeding 50% in early identification of sepsis). The goal to decrease deaths for patients presenting with sepsis was accomplished (zero deaths related to sepsis).

CHANGE MANAGEMENT & IMPLEMENTATION
• Identifying a need for change
• Modifications in the EMR- interdisciplinary approach
• Data Analysis Validation
• Continuous Improvement Process

AIMS
• Improve patient outcomes by decreasing sepsis deaths to zero
• Improve clinical workflows to address Sepsis Bundle Core Measures
• Increase Compliance to meet and exceed Sepsis Core Measures through Nursing Informatics modifications in the EMR

RESULTS
• Initially at 14% compliance with all measures
• One year of Change Management and Continuous Improvement
• Data Collection from January 2017 to March 2018
• Two Deaths related to Sepsis in Neuro ICU to Zero Deaths related to Sepsis
• Core SEP1 - Early Management Bundle, Severe Sepsis/Septic Shock 58% to 71%
• Core SEPb - Severe Sepsis 3 Hour Bundle 77% to 80%
• Core SEPc - Severe Sepsis 6 Hour Bundle 87% to 95%
• Core SEPd - Septic Shock 3 Hour Bundle 100% to 100%
• Outpatient Indicators and Identification of Sepsis
• Continuous Process Improvement
• Predictive Analytics

FUTURE IMPROVEMENT MEASURES
• Customized modifications in Power Forms, Power Plans and Orders utilizing SBAR and PDSA
• Interdisciplinary team meetings weekly with stakeholders to include physicians, nursing, quality, administration, ancillary departments
• Concurrent and Retrospective Data Review
• Data aggregation and analysis with validation
• Simulation of Early Warning Sepsis and Septic Shock Bundles with laminated intervention sheets in each Resuscitation Cart
• Pre and Post Continuous Process Improvement

INTERVENTIONS