**Project Title:** A Novel Approach to Identify Early Sepsis on Presentation to the Emergency Department

The following changes have been made since the SOW call: limited inpatient pharmacy to antibiotics, added blood pressure and heart rate to the vitals set, added antibiotic orders to the orders set. I have pulled all of the same data for the 3/2018-3/2019 population and labeled it as population ‘B’.

**PI**: Jon Pangia/ fni7971 **Project #**: 3041

**Hospital**: Grand Strand Medical Central (34003) **Division**: SATL

**Scope**: Hospital **Research Director**: Mike Flynn

**Date Range**: 1/01/2017 – 1/01/2018

& 3/01/2018 –3/01/2019 **Stats:** Yes, please

**Other PIs/34IDs**:

Leeda Roshan/ lto7168

Brian Doherty/ joc6804

Christina Vitale/ oln7129

Radley Short/ ojl7476

**Age Range**: N/A all ages

**Min Pop:** N/A

**Research objective:** This study aims to show the effectiveness of the simple assessment tool for ruling out sepsis on arrival to the Emergency Department.

**Data Elements:**

Encounters Age, Length of Stay, Discharge Disposition, Mortality

Demographics Sex, Race, Ethnicity

Clinical Location Time of admission, location, transfer day/time

Chief Complaint ED admission complaint

Inpatient Pharmacy Antibiotic, time administered

Diagnoses Bacterial infection, Antibiotic-derived adverse outcomes

Orders Time of antibiotic order, time of sepsis order

Microbiology Bacterial information, day/time of collection, day/time of results

Vitals Temperature

**Inclusions**: Patients with sepsis diagnosis or sepsis order set

--number is the same without adding the order set

**Exclusions**: N/A

**Datasets Needed**:

Encounters

Demographics

Clinical Location

Chief Complaint

Inpatient Pharmacy

Diagnoses

Orders Time of antibiotic order, time of sepsis order

Microbiology

Vitals Temperature

**SOW** **Questions/Notes**:

|  |  |
| --- | --- |
| A021 | Salmonella sepsis |
| A227 | Anthrax sepsis |
| A267 | Erysipelothrix sepsis |
| A327 | Listerial sepsis |
| A400 | Sepsis due to streptococcus, group A |
| A401 | Sepsis due to streptococcus, group B |
| A403 | Sepsis due to Streptococcus pneumoniae |
| A408 | Other streptococcal sepsis |
| A409 | Streptococcal sepsis, unspecified |
| A4101 | Sepsis due to Methicillin susceptible Staphylococcus aureus |
| A4102 | Sepsis due to Methicillin resistant Staphylococcus aureus |
| A411 | Sepsis due to other specified staphylococcus |
| A412 | Sepsis due to unspecified staphylococcus |
| A413 | Sepsis due to Hemophilus influenzae |
| A414 | Sepsis due to anaerobes |
| A4150 | Gram-negative sepsis, unspecified |
| A4151 | Sepsis due to Escherichia coli (E. coli) |
| A4152 | Sepsis due to Pseudomonas |
| A4153 | Sepsis due to Serratia |
| A4159 | Other Gram-negative sepsis |
| A4181 | Sepsis due to Enterococcus |
| A4189 | Other specified sepsis |
| A419 | Sepsis, unspecified organism |
| A427 | Actinomycotic sepsis |
| A5486 | Gonococcal sepsis |
| B377 | Candidal sepsis |
| O0337 | Sepsis following incomplete spontaneous abortion |
| O0387 | Sepsis following complete or unspecified spontaneous abortion |
| O0487 | Sepsis following (induced) termination of pregnancy |
| O0737 | Sepsis following failed attempted termination of pregnancy |
| O0882 | Sepsis following ectopic and molar pregnancy |
| O85 | Puerperal sepsis |
| O8604 | Sepsis following an obstetrical procedure |
| P360 | Sepsis of newborn due to streptococcus, group B |
| P3610 | Sepsis of newborn due to unspecified streptococci |
| P3619 | Sepsis of newborn due to other streptococci |
| P362 | Sepsis of newborn due to Staphylococcus aureus |
| P3630 | Sepsis of newborn due to unspecified staphylococci |
| P3639 | Sepsis of newborn due to other staphylococci |
| P364 | Sepsis of newborn due to Escherichia coli |
| P365 | Sepsis of newborn due to anaerobes |
| P368 | Other bacterial sepsis of newborn |
| P369 | Bacterial sepsis of newborn, unspecified |
| R6520 | Severe sepsis without septic shock |
| R6521 | Severe sepsis with septic shock |
| T8144XA | Sepsis following a procedure, initial encounter |
| T8144XD | Sepsis following a procedure, subsequent encounter |
| T8144XS | Sepsis following a procedure, sequela |