

Supplemental Figure 1: A) List of ICD-9 and -10 diagnoses used to query the EHR and B) List of antibiotics queried for each patient admitted for uncomplicated CAP or SSTI.

A)

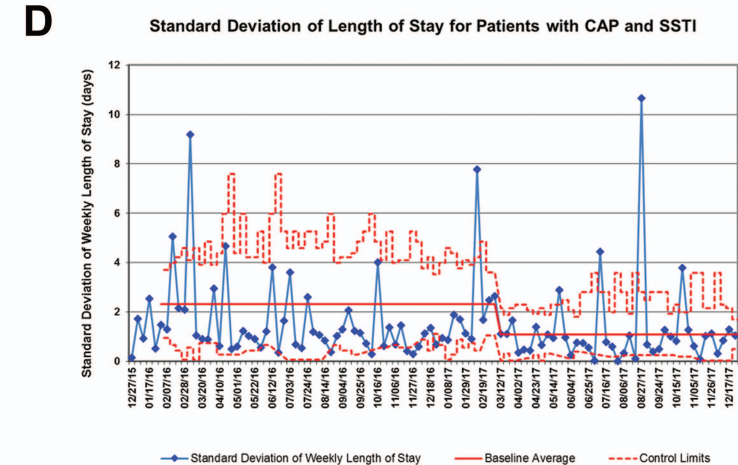
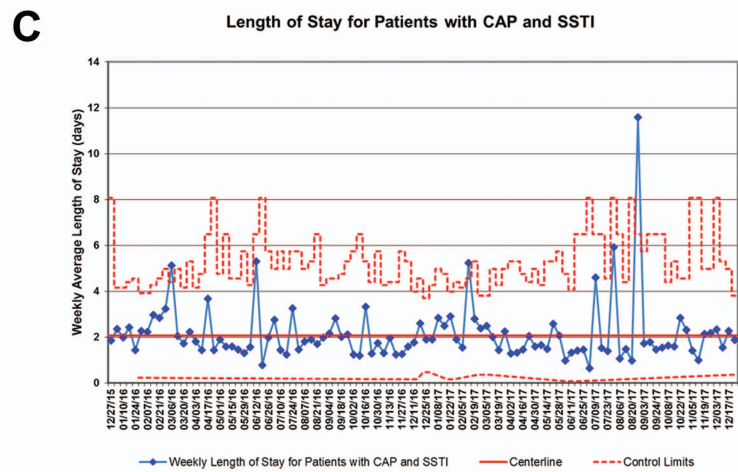
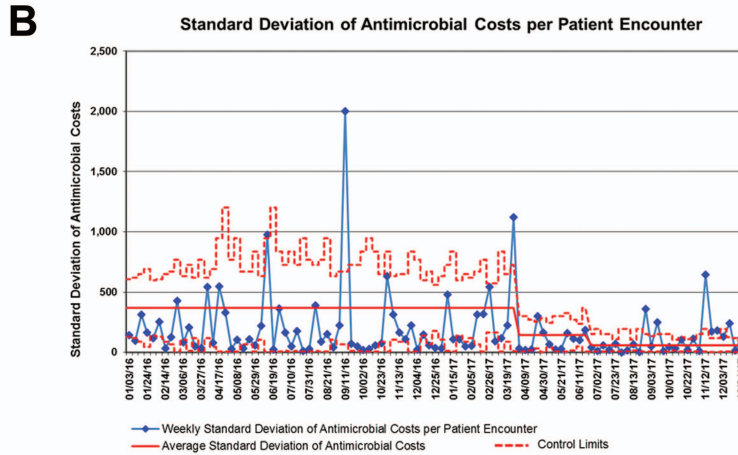
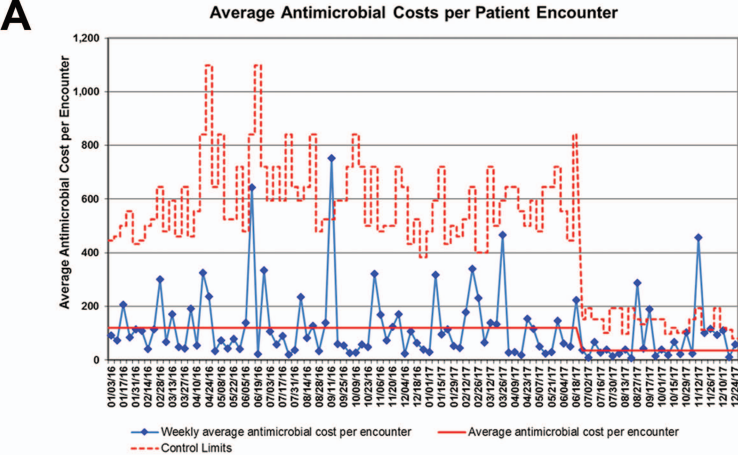
Abscess of arm
Abscess of buttock, left
Cellulitis at gastrostomy tube site
Cellulitis of buttock
Cellulitis of foot
Cellulitis of hand
Cellulitis of left arm
Cellulitis of left upper extremity
Cellulitis of other specified site
Cellulitis of right arm
Cellulitis of right lower extremity
Cellulitis of right upper extremity
Dog bite of face, initial encounter
Impetigo
Perirectal abscess
Soft tissue abscess of thumb, right
Soft tissue mass

Community acquired pneumonia
Focal pneumonia
Multifocal pneumonia
Pneumonia
Pneumonia due to Haemophilus influenza,
unspecified part of lung
Pneumonia of left lower lobe due to
infectious organism
Pneumonia of right lower lobe due to
infectious organism
Pneumonia of right lung due to infectious
organism, unspecified part of lung
Pneumonia of right middle lobe due to
infectious organism
Pneumonia, unspecified organism
Recurrent pneumonia
Unresolved pneumonia

B)

Amoxicillin
Amoxicillin-Pot Clavulanate
Ampicillin
Ampicillin Sodium
AmpicillinSulbactam Sodium
Azithromycin
Cefazolin Sodium
Cefdinir
Cefixime
Ceftriaxone Sodium
Cephalexin
Ciprofloxacin
Ciprofloxacin in D5W
Ciprofloxacin HCl
Clindamycin HCl
Clindamycin Palmitate HCl
Clindamycin Phosphate
Doxycycline
Doxycycline Hyclate
Doxycycline Monohydrate
Levofloxacin
Levofloxacin in D5W
Linezolid
Metronidazole
Metronidazole in NaCl
Penicillin G Potassium
Penicillin V Potassium
Sulfamethoxazole-Trimethoprim

Supplemental Figure 2:
(A) X-bar Chart: Average
Antimicrobial costs based on
Average Wholesale prices per
Patient Encounter. (B) S-chart:
Standard Deviation of
Antimicrobial Costs per
Patient Encounter. (C) X-bar
Chart: Average LOS for Patients
with CAP or SSTI. (D) S-Chart:
Standard Deviation of LOS.
All outcome measures were
tracked from January 2016 to
December 2017. Each data point
represents one week.



Supplemental Figure 3: A) P-Control-chart: Average percentage of patients with CAP or SSTI readmitted within 7 days. Each data point represents one week. B) G-chart: Average number of encounters between 7-day readmissions for patients with CAP or SSTI. Each data point represents a readmission.

