

Bureau of Infectious Disease and Laboratory Sciences

2017 Statewide Antibigram Report

Bureau of Infectious Disease and Laboratory Sciences

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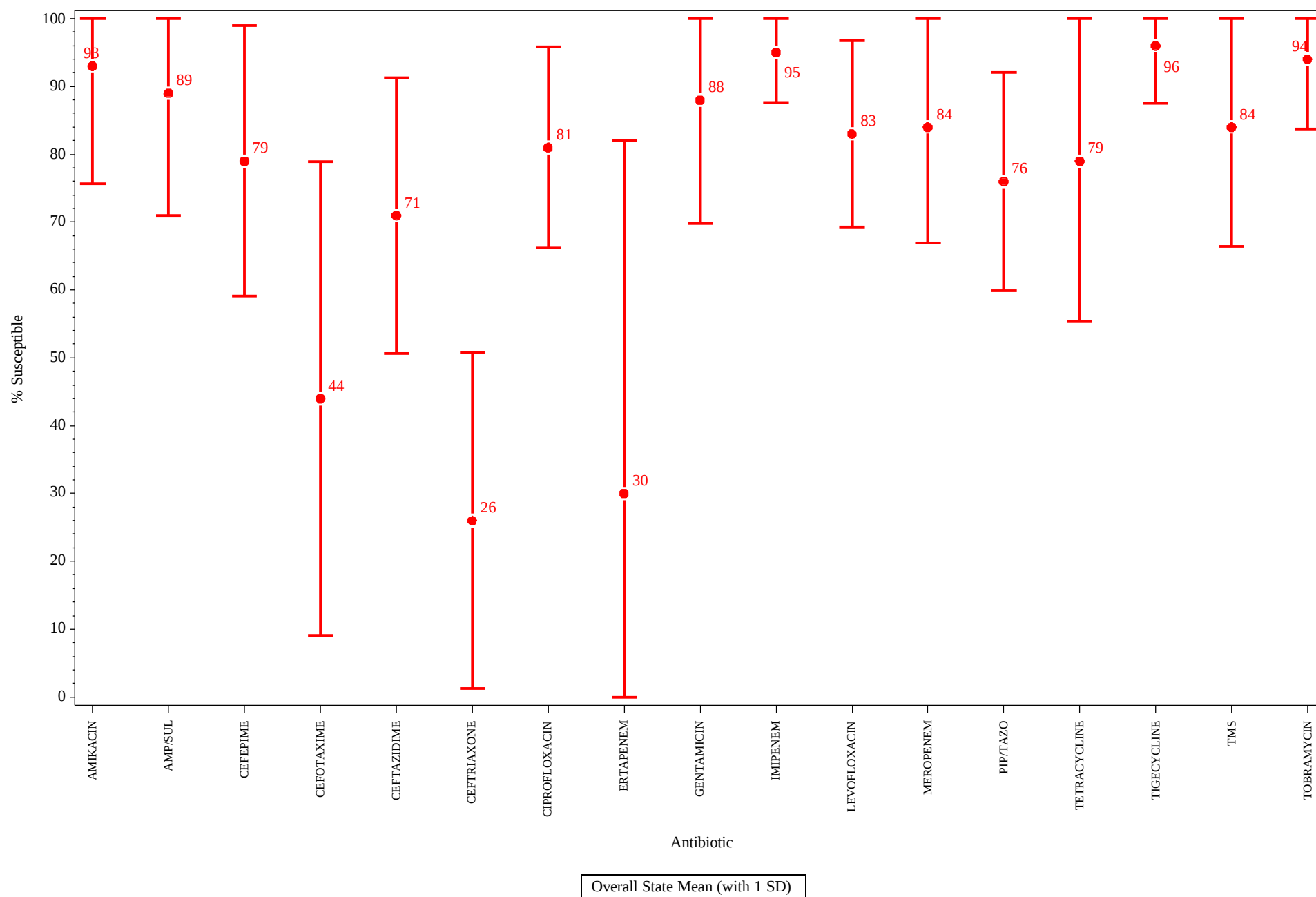
In 2017, antibiogram data representing 72 (97%) acute-care hospitals was reported and is included in this statewide report. Each page of this eleven page report displays the average percent susceptibility (red dots) and standard deviation (red bars) of bacterial isolates to relevant antibiotics. These data are representative of antibiotic susceptibility data for 244,918 inpatient and outpatient bacterial isolates, and does not represent the full extent of antibiotic resistance in Massachusetts.

Table of Contents

<i>Acinetobacter baumannii</i> Susceptibility Rates.....	1
<i>Pseudomonas aeruginosa</i> Susceptibility Rates.....	2
<i>Enterobacter aerogenes</i> Susceptibility Rates.....	3
<i>Enterobacter cloacae</i> Susceptibility Rates.....	4
<i>Escherichia coli</i> Susceptibility Rates.....	5
<i>Klebsiella pneumoniae</i> Susceptibility Rates.....	6
<i>Stenotrophomonas maltophilia</i> Susceptibility Rates.....	7
<i>Serratia marcescens</i> Susceptibility Rates.....	8
<i>Klebsiella oxytoca</i> Susceptibility Rates.....	9
<i>Staphylococcus aureus</i> Susceptibility Rates.....	10
<i>Streptococcus pneumoniae</i> Susceptibility Rates.....	11
Antibiogram data collection tool	12
List of reporting hospitals.....	13
Antibiotic susceptibility testing guidelines.....	14

Acinetobacter baumannii Susceptibility Rates - 2017

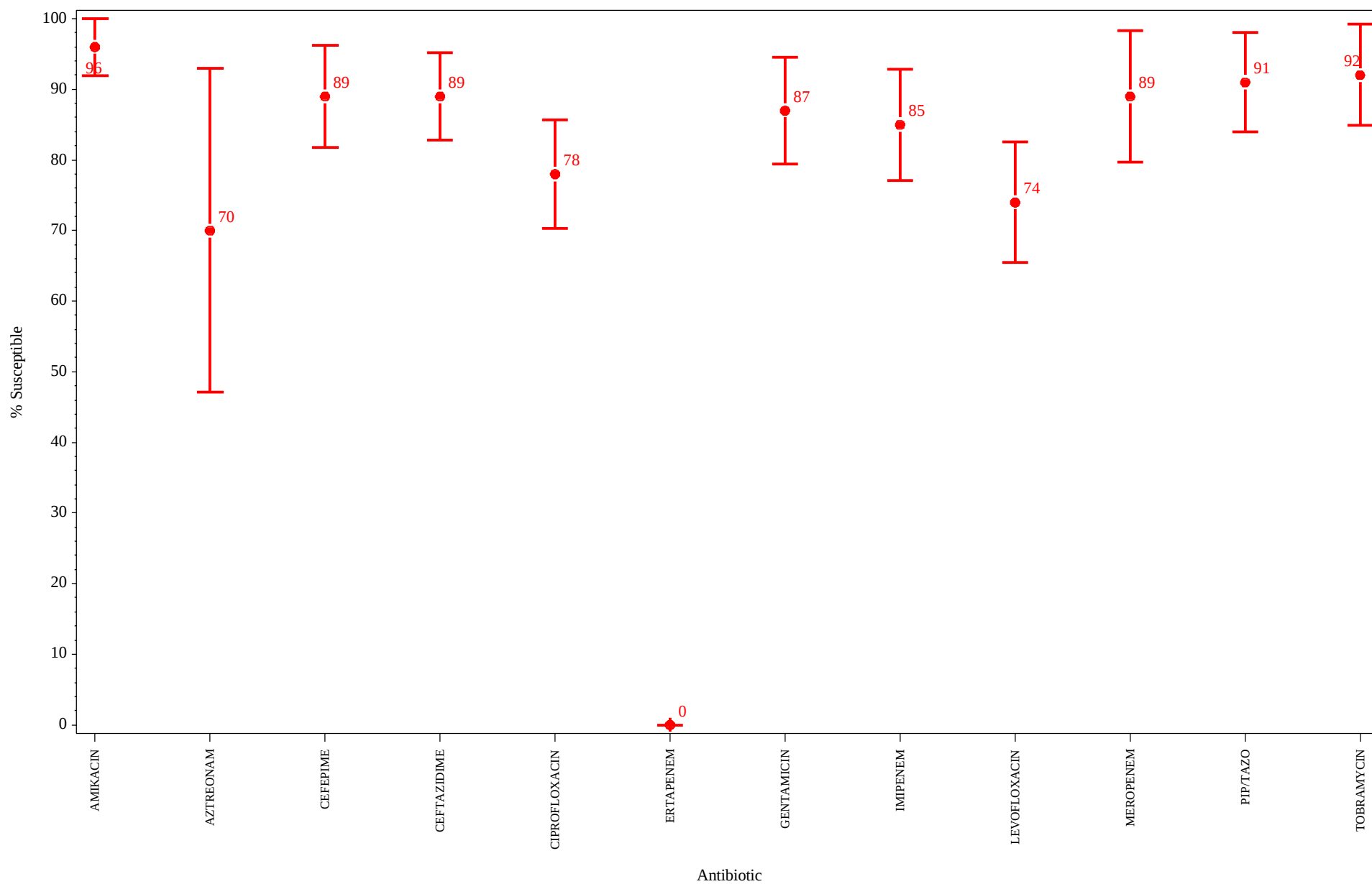
Hospital=STATEWIDE



NOTE: Data from facilities may or may not include results on duplicate isolates.

Pseudomonas aeruginosa Susceptibility Rates - 2017

Hospital=STATEWIDE

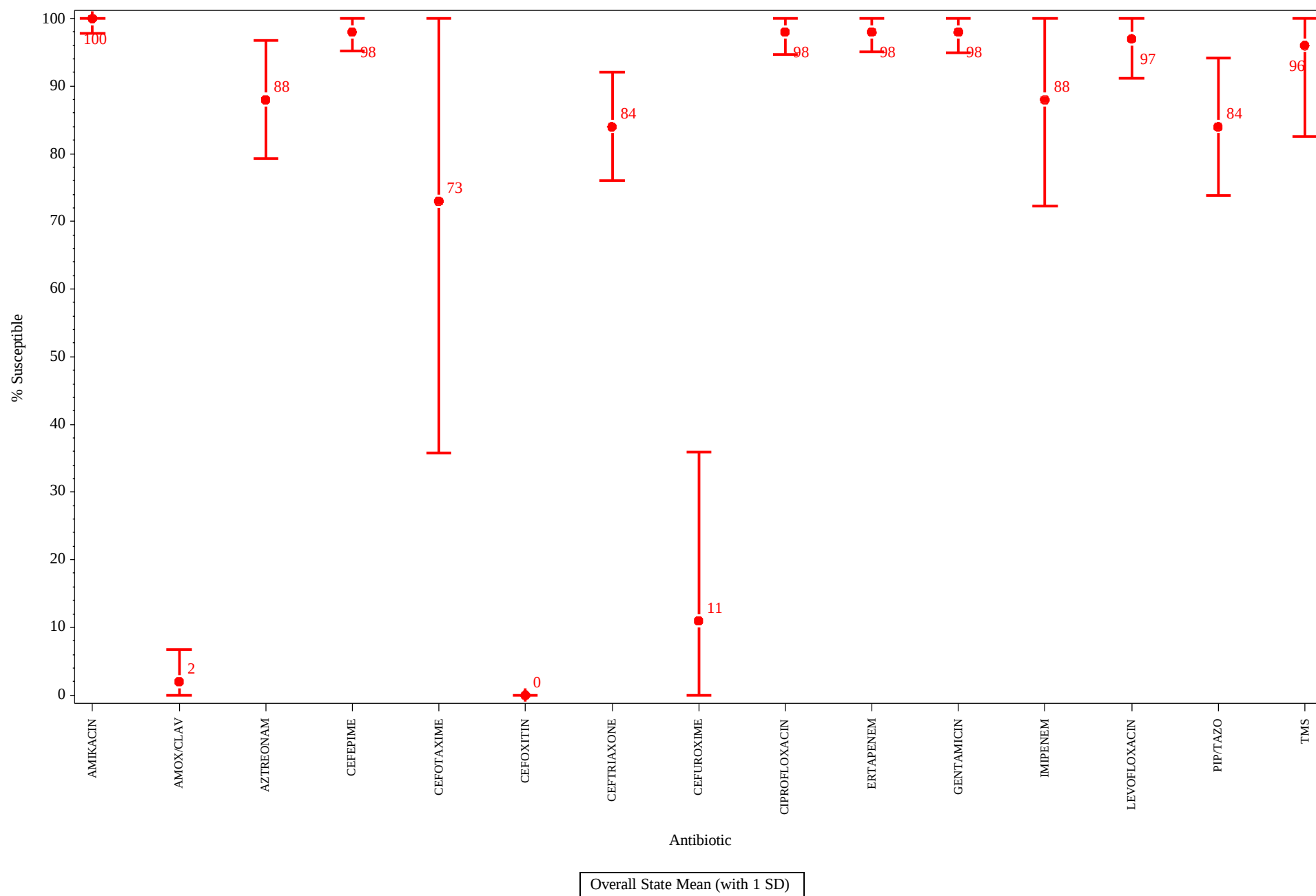


Overall State Mean (with 1 SD)

NOTE: Data from facilities may or may not include results on duplicate isolates.

Enterobacter aerogenes Susceptibility Rates - 2017

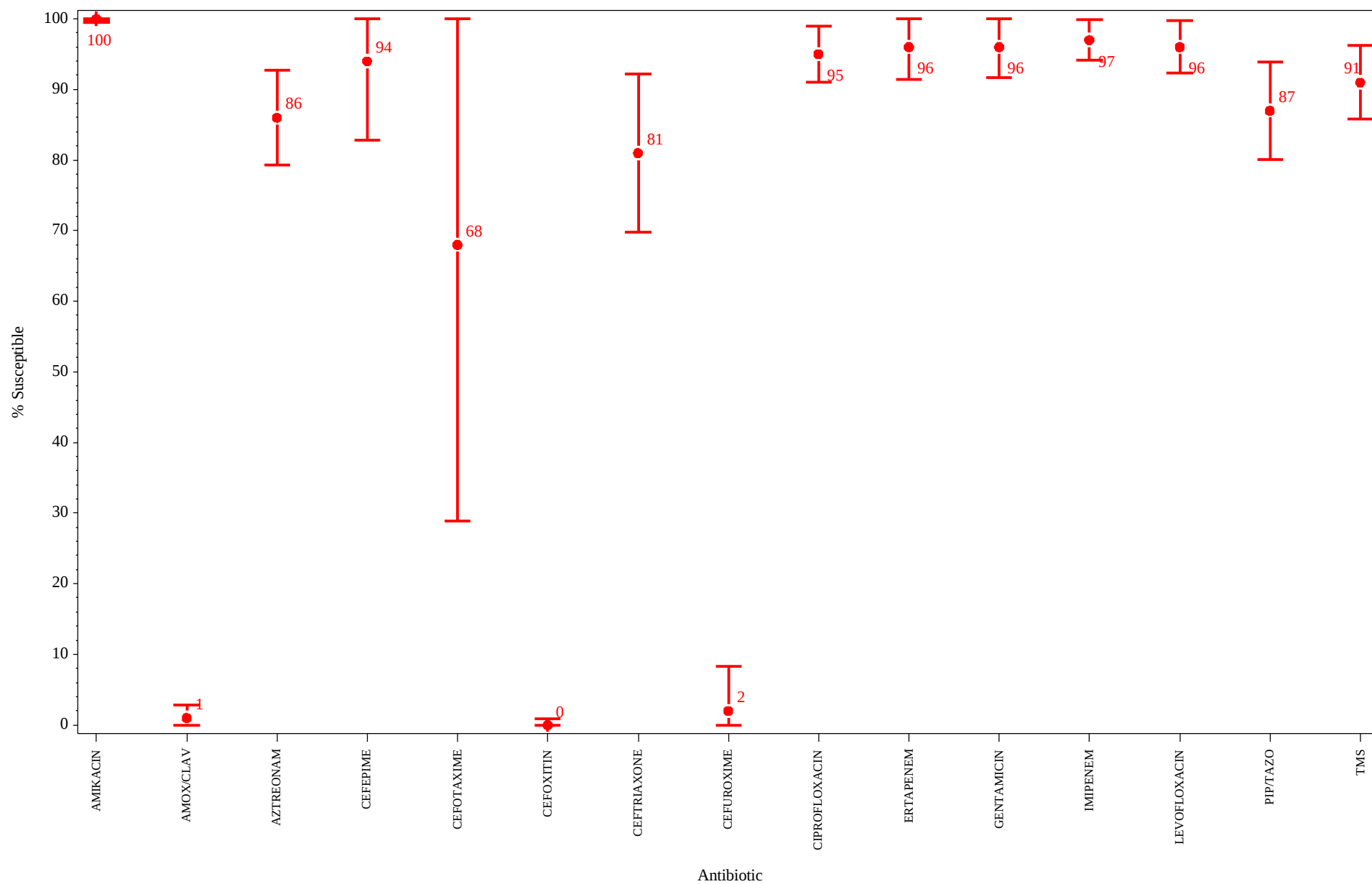
Hospital=STATEWIDE



NOTE: Data from facilities may or may not include results on duplicate isolates.

Enterobacter cloacae Susceptibility Rates - 2017

Hospital=STATEWIDE

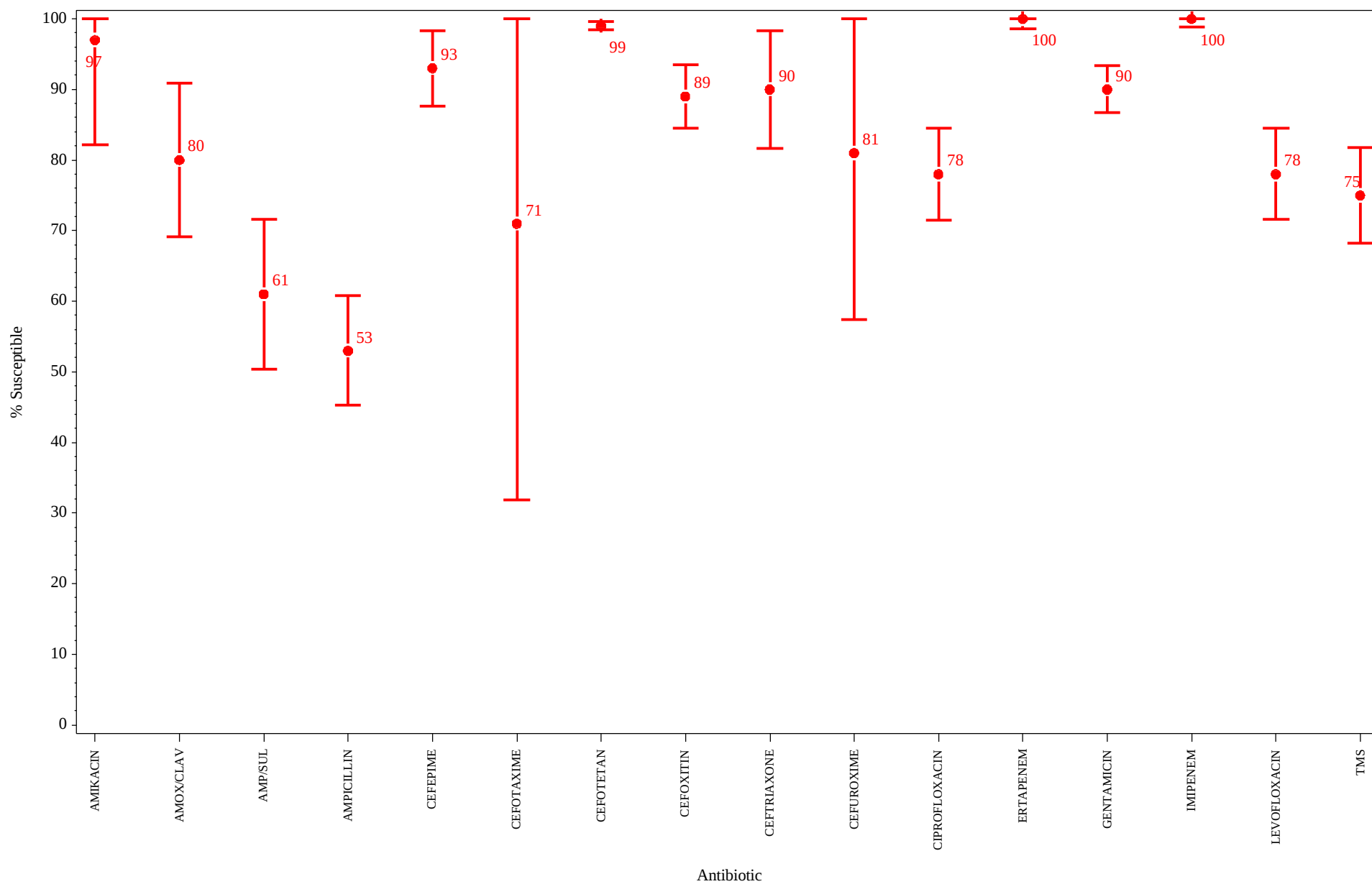


Overall State Mean (with 1 SD)

NOTE: Data from facilities may or may not include results on duplicate isolates.

Escherichia coli Susceptibility Rates - 2017

Hospital=STATEWIDE

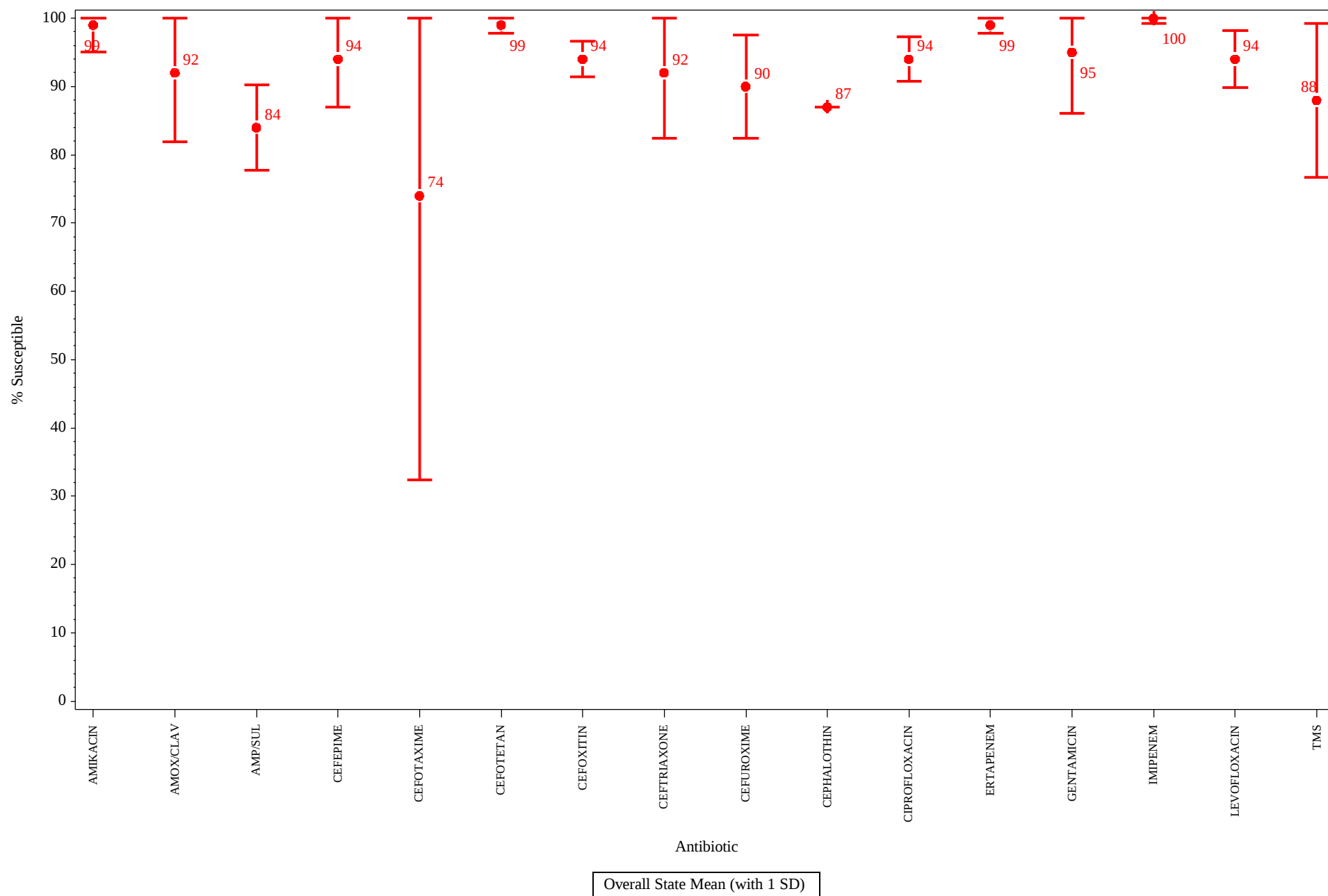


Overall State Mean (with 1 SD)

NOTE: Data from facilities may or may not include results on duplicate isolates.

Klebsiella pneumoniae Susceptibility Rates - 2017

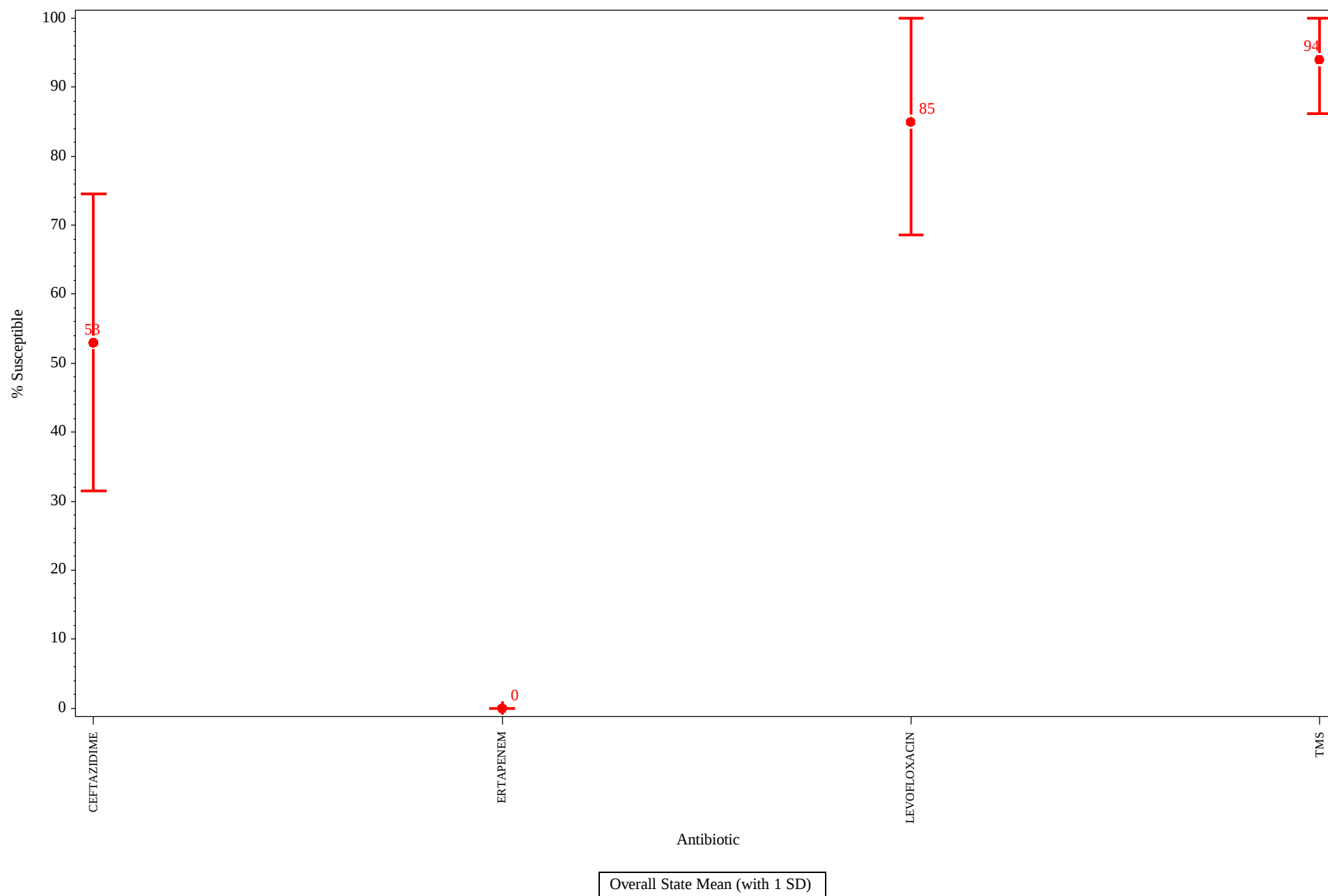
Hospital=STATEWIDE



NOTE: Data from facilities may or may not include results on duplicate isolates.

Stenotrophomonas maltophilia Susceptibility Rates - 2017

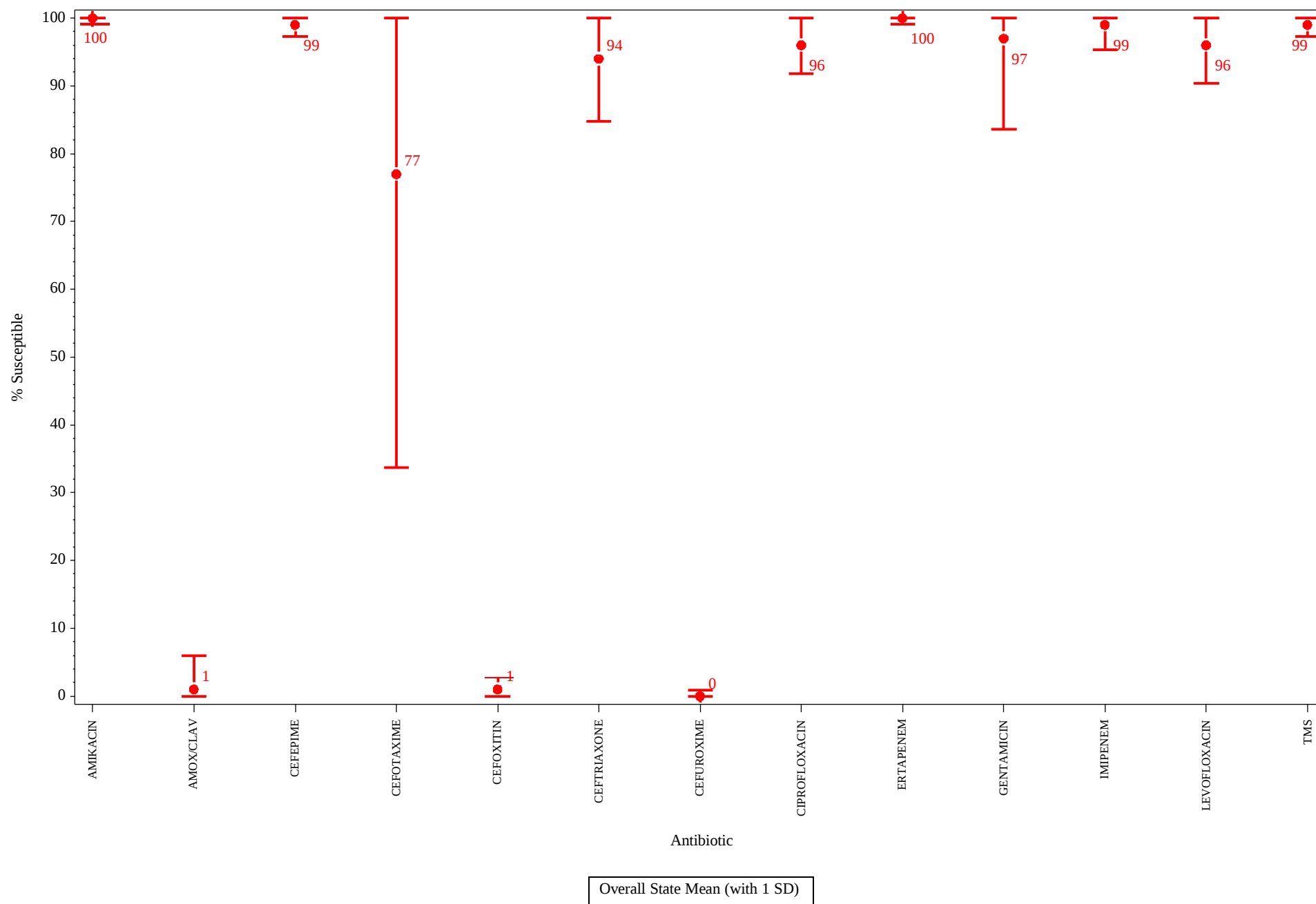
Hospital=STATEWIDE



NOTE: Data from facilities may or may not include results on duplicate isolates.

Serratia marcescens Susceptibility Rates - 2017

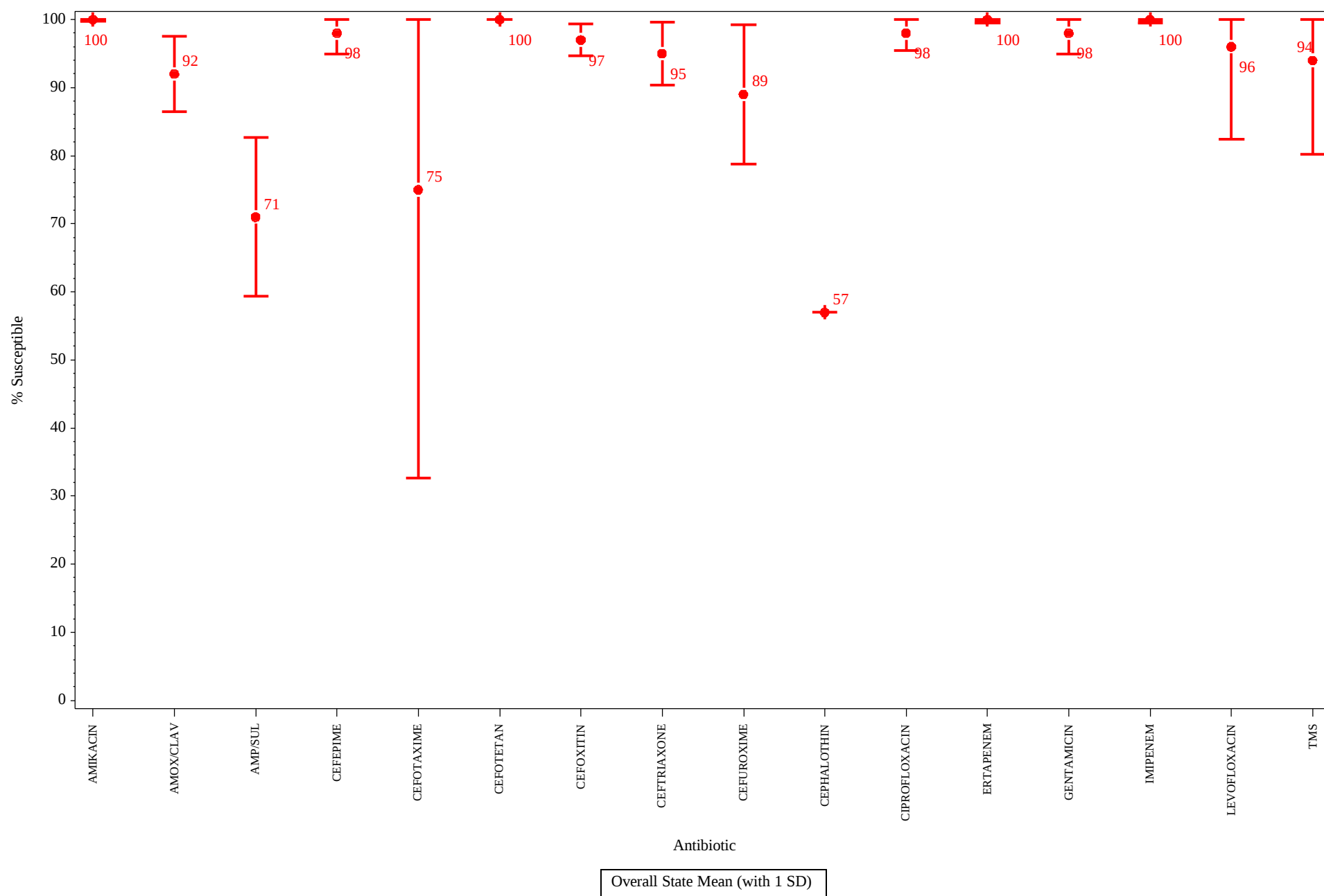
Hospital=STATEWIDE



NOTE: Data from facilities may or may not include results on duplicate isolates.

Klebsiella oxytoca Susceptibility Rates - 2017

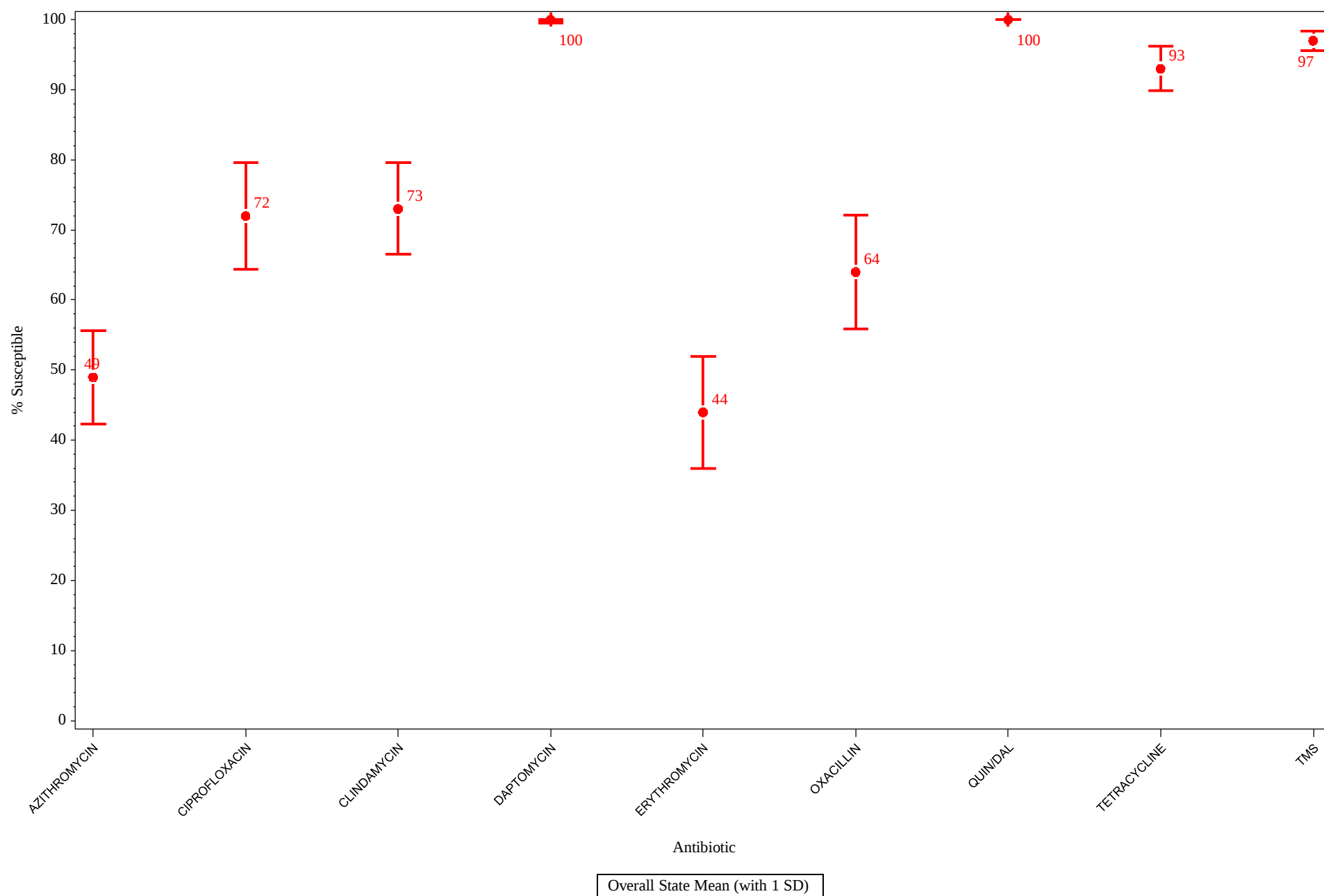
Hospital=STATEWIDE



NOTE: Data from facilities may or may not include results on duplicate isolates.

Staphylococcus aureus Susceptibility Rates - 2017

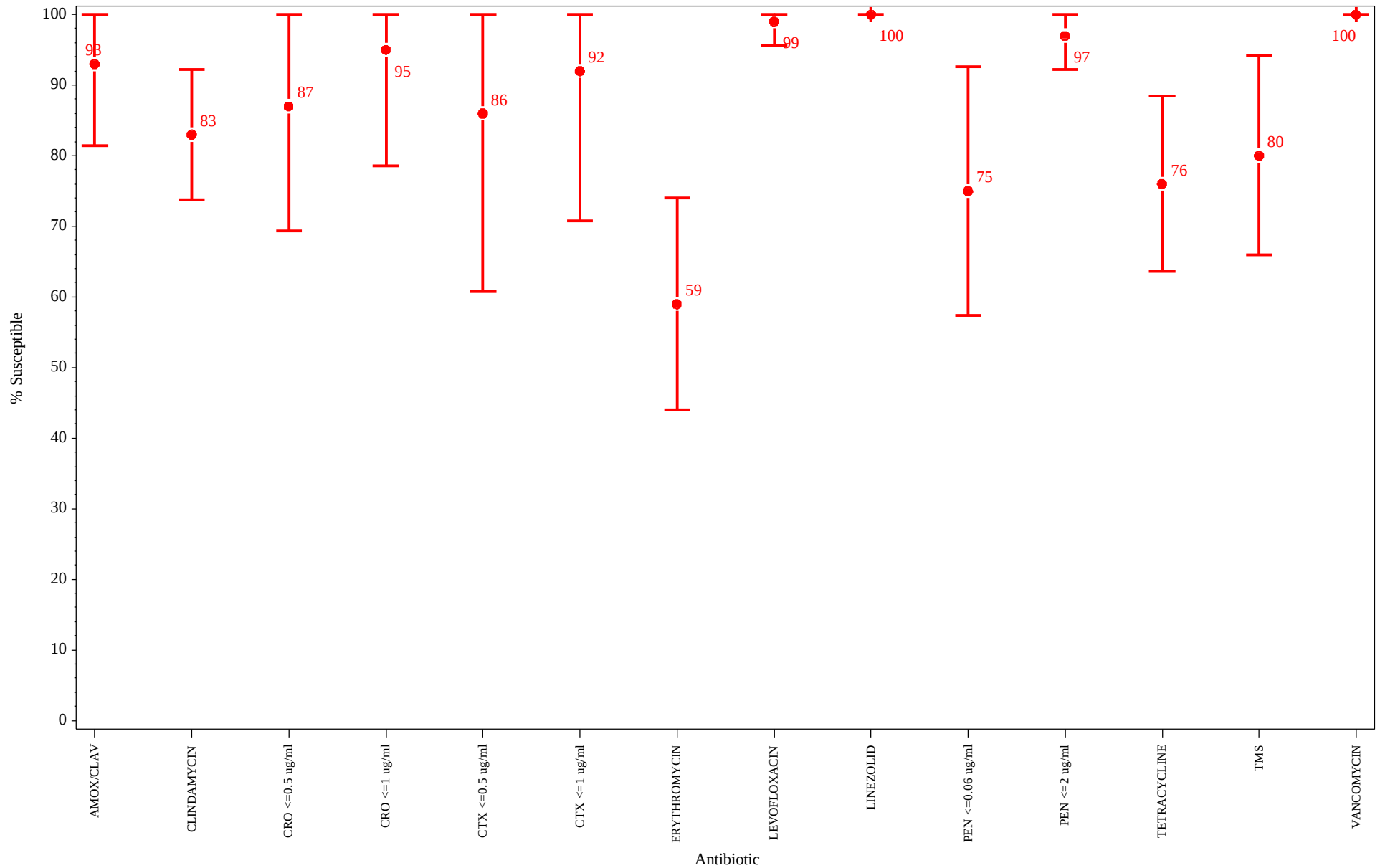
Hospital=STATEWIDE



NOTE: Data from facilities may or may not include results on duplicate isolates.

Streptococcus pneumoniae Susceptibility Rates - 2017

Hospital=STATEWIDE



Overall State Mean (with 1 SD)

NOTE: Data from facilities may or may not include results on duplicate isolates.

Hospital:

From:

To:

Duplicates Excluded?:

Patient Population:

Specify (if other):

Percent Susceptibilities

[illegible]

Gram Positive Organisms	Variable N (Yes/No)	ALL <i>S. aureus</i>	MRSA	MSSA	<i>S. pneumoniae</i>
	Variable N (Yes/No)	N	N	N	N
	N *				
	Amoxicillin +Clavulanate				
	Ampicillin				
	Ampicillin+Sulbactam				
	Azithromycin				
	Cefazolin				
	Cefotaxime <=1 ug/ml				
	Cefotaxime <=0.5 ug/ml				
	Ceftriaxone<=1 ug/ml				
	Ceftriaxone<=0.5 ug/ml				
	Ciprofloxacin				
	Clindamycin				
	Daptomycin				
	Erythromycin				
	Gentamicin				
	Levofloxacin				
	Linezolid				
	Moxifloxacin				
	Nitrofurantoin				
	Oxacillin				
	Penicillin <=2ug/ml				
	Penicillin <=0.06 ug/ml				
	Quinupristin+Dalbapristin				
	Rifampin				
	Sulfamethoxazole				
	Tetracycline				
	Tigecycline				
	Trimethoprim +Sulfamethoxazole				
	Vancomycin				
	Variable N (expand/collapse)				

Hospitals that reported 2017 antibiogram data in accordance with regulations (105 CMR 300.000) by reporting deadline:

Anna Jaques Hospital	Lowell General Hospital - Main Campus
Athol Memorial Hospital	Lowell General Hospital - Saints Campus
Baystate Franklin Medical Center	Martha's Vineyard Hospital
Baystate Medical Center	Massachusetts Eye and Ear Infirmary
Baystate Noble Hospital	Massachusetts General Hospital
Baystate Wing Hospital	Mercy Medical Center
Berkshire Health Systems - Berkshire Medical Center	MetroWest Medical Center - Framingham Union Hospital
Berkshire Health Systems - Fairview Hospital	MetroWest Medical Center - Leonard Morse Hospital
Beth Israel Deaconess Hospital - Milton	Milford Regional Medical Center
Beth Israel Deaconess Hospital - Needham	Mount Auburn Hospital
Beth Israel Deaconess Hospital - Plymouth	Nantucket Cape Cod Hospital
Beth Israel Deaconess Medical Center	New England Baptist Hospital
Boston Children's Hospital	Newton-Wellesley Hospital
Boston Medical Center	Saint Vincent Hospital
Boston Medical Center - East Newton campus	Shriners Hospital for Children - Boston
Brigham and Women's Faulkner Hospital	Signature Healthcare - Brockton Hospital
Brigham and Women's Hospital	South Shore Hospital
Cambridge Health Alliance - Cambridge Hospital	Southcoast Health - Charlton Memorial Hospital
Cambridge Health Alliance - Somerville Hospital	Southcoast Health - St. Luke's Hospital
Cambridge Health Alliance - Everett Hospital	Southcoast Health - Tobey Hospital
Cape Cod Healthcare - Cape Cod Hospital	Steward Health Care - Carney Hospital
Cape Cod Healthcare - Falmouth Hospital	Steward Health Care - Good Samaritan Medical Center
Cooley Dickinson Hospital	Steward Health Care - Holy Family Hospital
Dana-Farber Cancer Institute	Steward Health Care - Holy Family Hospital at Merrimack Valley
Emerson Hospital	Steward Health Care - Morton Hospital
Hallmark Health System - Lawrence Memorial Hospital of Medford	Steward Health Care - Nashoba Valley Medical Center
Hallmark Health System - Melrose-Wakefield Hospital	Steward Health Care - Norwood Hospital
Harrington Memorial Hospital	Steward Health Care - Saint Anne's Hospital
Heywood Hospital	Steward Health Care - St. Elizabeth's Medical Center
Holyoke Medical Center	Sturdy Memorial Hospital
Lahey Health - Addison Gilbert Hospital	The Veteran's Administration Boston Healthcare System
Lahey Health - Beverly Hospital	Tufts Medical Center
Lahey Health - Lahey Hospital & Medical Center	UMass Memorial Health Care - HealthAlliance Hospital Leominster
Lahey Health - Lahey Medical Center, Peabody	UMass Memorial Health Care - UMass Memorial Medical Center
Lahey Health - Winchester Hospital	UMass Memorial Health Care - Clinton Hospital
Lawrence General Hospital	UMass Memorial Health Care - Marlborough Hospital

Antibiotic susceptibility testing guidelines

Antibiotic susceptibility testing is conducted in microbiology laboratories. Microbiologists utilize standardized guidelines, such as those distributed by Clinical and Laboratory Standards Institute (CLSI)* to determine whether a bacterial isolate is susceptible, intermediate, or resistant to an antibiotic. These guidelines are typically updated periodically. The extent to which clinical microbiology laboratories across Massachusetts follow the most recently updated guidelines is not well established.

* Clinical and Laboratory Standards Institute (CLSI). *Performance Standards for Antimicrobial Susceptibility Testing*, 26th Edition. CLSI Supplement M100-S6. Published December 22, 2015.