

The background features a dark blue gradient with a starry field of small white dots. On the left side, there are several circular gauges or dials with white markings and numbers. The numbers on these gauges include 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, and 260. Some gauges have arrows pointing in different directions, and some have dashed lines around them. The overall aesthetic is technical and futuristic.

MEDICAL INTELLIGENCE

JAMES M WILSON V, MD FAAP

PERSPECTIVE

Public health events that became national security crises:

- SARS
- H5N1 avian influenza
- MERS
- H1N1 influenza pandemic
- Ebola
- Zika
- Laboratory accidents
- Biological warfare and terrorism

OPERATIONAL FORECASTING

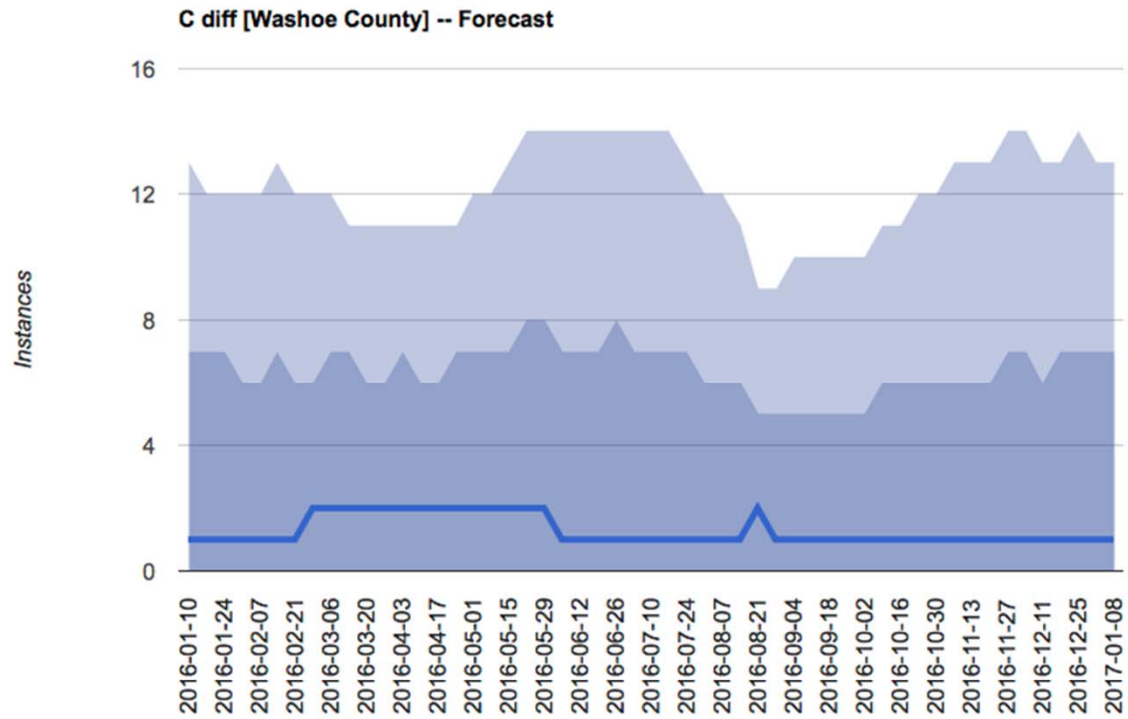
Detection

- Project Argus
- Veratect Corporation

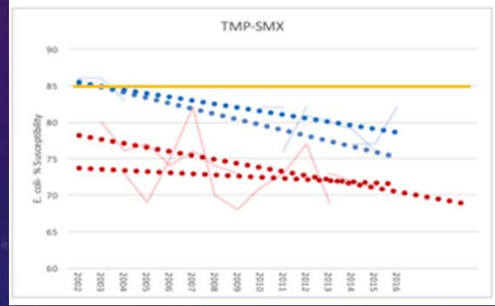
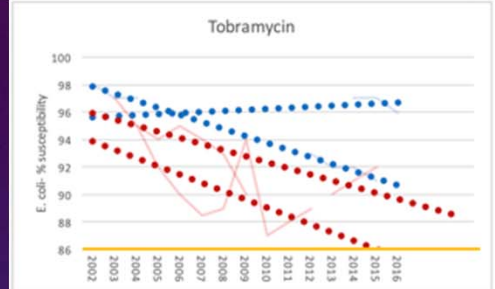
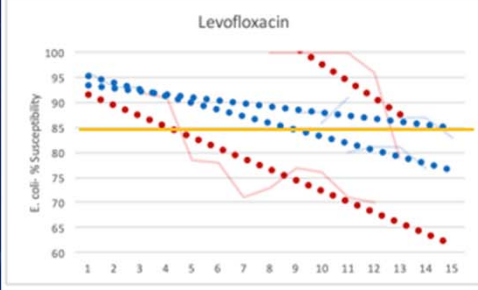
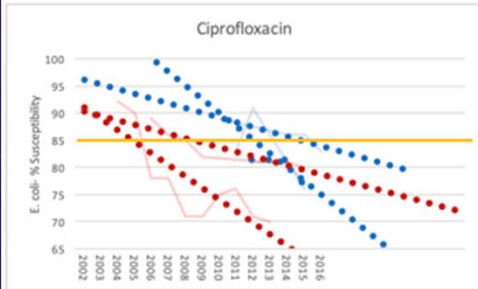
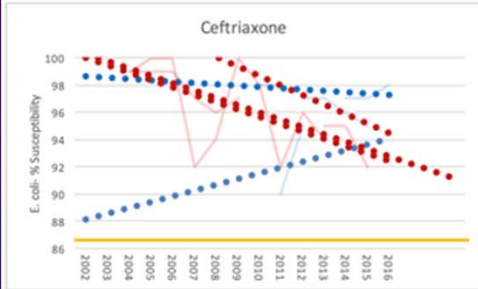
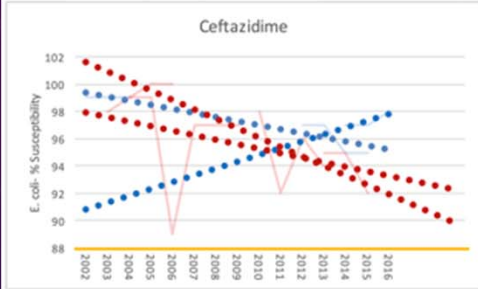
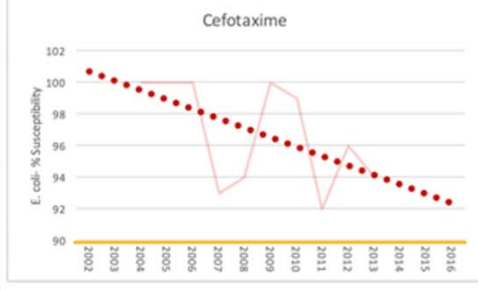
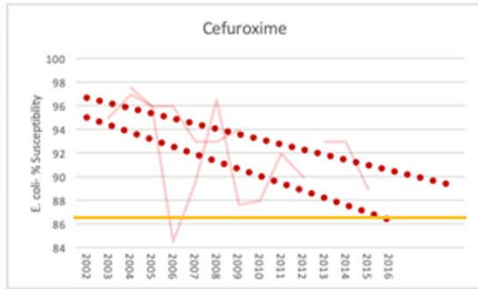
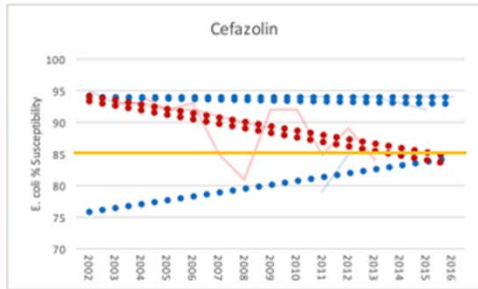
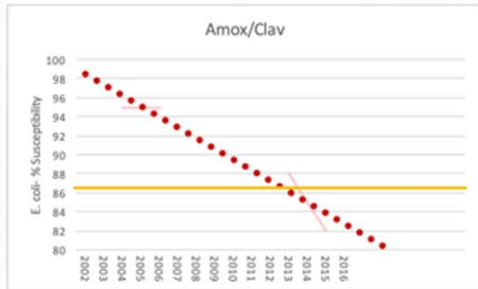
Forecasting

- Haiti Epidemic Advisory System
- Black Canyon Infectious Disease Forecast Station

Forecast



[Post to Public](#)

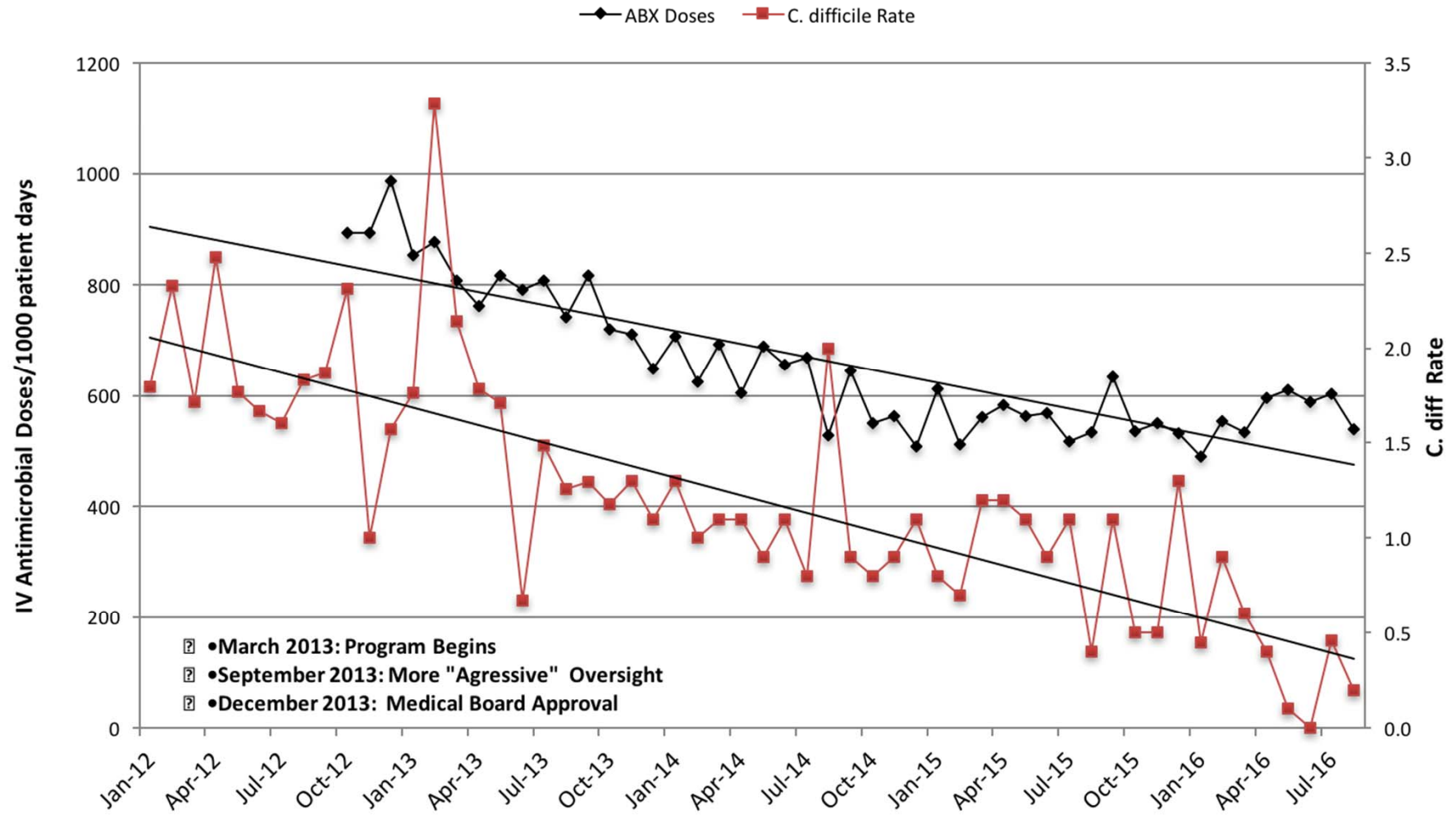


Location	Antibiotic	APC, Segment 1		APC, Segment 2	
		P-Value	P-Value	P-Value	P-Value
Rural Facility A	Amoxicillin	6.80	0.10		
Rural Facility A	Ampicillin	2.00	0.30		
Rural Facility A	Gentamicin	1.30	0.10		
Rural Facility A	Cefazolin	0.70	0.50		
Rural Facility A	Ceftriaxone	0.50	0.60		
Rural Facility A	Imipenem	0.48	0.03		
Rural Facility A	Amikacin	0.20	0.60		
Urban Facility C	Pip-Taz	0.10	0.70		
Rural Facility B	Amikacin	0.00	2E+30		
Rural Facility B	Ertapenem	0.00	-		
Rural Facility B	Imipenem	0.00	0.80	0.00	0.80
Urban Facility B	Amikacin	0.00	0.80		
Urban Facility B	Ertapenem	0.00	1.00		
Urban Facility B	Imipenem	0.00	0.30		
Urban Facility B	Meropenem	0.00	2E+30		
Urban Facility C	Ertapenem	0.00	2E+30		
Urban Facility C	Meropenem	0.00	2E+30		
Rural Facility A	Pip-Taz	-0.20	0.50		
Urban Facility B	Pip-Taz	-0.20	0.20		
Urban Facility B	TMP-SMX	-0.20	0.80		
Urban Facility C	Imipenem	-0.20	0.60		
Rural Facility A	Cefepime	-0.30	0.30		
Rural Facility B	Cefazolin	-0.30	0.10		
Urban Facility B	Cefepime	-0.30	0.60		
Rural Facility B	Pip-Taz	-0.40	0.10		
Urban Facility C	Tetracycline	-0.40	0.10		
Urban Facility C	Ceftazidime	-0.49	0.21		
Urban Facility C	Gentamicin	-0.56	0.0005		
Urban Facility B	Cefotaxime	-0.60	0.10		
Urban Facility B	Ceftriaxone	-0.60	0.20		
Urban Facility B	Cefuroxime	-0.60	0.30		
Urban Facility B	Gentamicin	-0.60	0.40		
Urban Facility C	Cefuroxime	-0.67	0.0032		
Rural Facility B	Ceftriaxone	-0.70	0.10		
Urban Facility B	Tobramycin	-0.70	0.10		
Urban Facility C	Tobramycin	-0.70	0.0016		
Urban Facility C	Cefazolin	-0.74	0.0003		
Urban Facility B	Cefazolin	-0.80	0.20		
Rural Facility B	Ceftazidime	-0.81	0.0014		
Urban Facility C	Ceftriaxone	-0.82	0.0003		
Rural Facility A	TMP-SMX	-0.90	0.50		
Rural Facility B	Cefepime	-0.92	0.07		
Urban Facility C	TMP-SMX	-1.08	0.0001		
Urban Facility C	Aztreonam	-1.10	0.30		
Rural Facility B	Gentamicin	-1.14	0.03		
Urban Facility B	Ceftazidime	-1.19	0.04		
Urban Facility B	Aztreonam	-1.20	0.10		
Rural Facility B	Tobramycin	-1.35	0.0011		
Rural Facility B	Ciprofloxacin	-1.51	0.23		
Urban Facility C	Cefepime	-1.60	0.30		
Urban Facility C	Ampicillin	-1.99	<0.001		
Rural Facility B	TMP-SMX	-2.04	0.0001		
Urban Facility C	Ciprofloxacin	-2.60	0.04	-0.84	0.25
Urban Facility B	Levafloxacin	-2.61	0.0033		
Rural Facility B	Amox-Clav	-2.61	0.0022*		
Rural Facility A	Ciprofloxacin	-2.80	0.20		
Rural Facility B	Ampicillin	-2.80	0.10		
Rural Facility A	Levafloxacin	-3.30	0.10		
Urban Facility B	Ampicillin	-3.30	0.10		
Rural Facility B	Levafloxacin	-3.77	0.0033		
Urban Facility B	Amox-Clav	-5.20	0.03	0.70	0.62
Urban Facility B	Ciprofloxacin	-5.93	0.02	-0.09	0.95

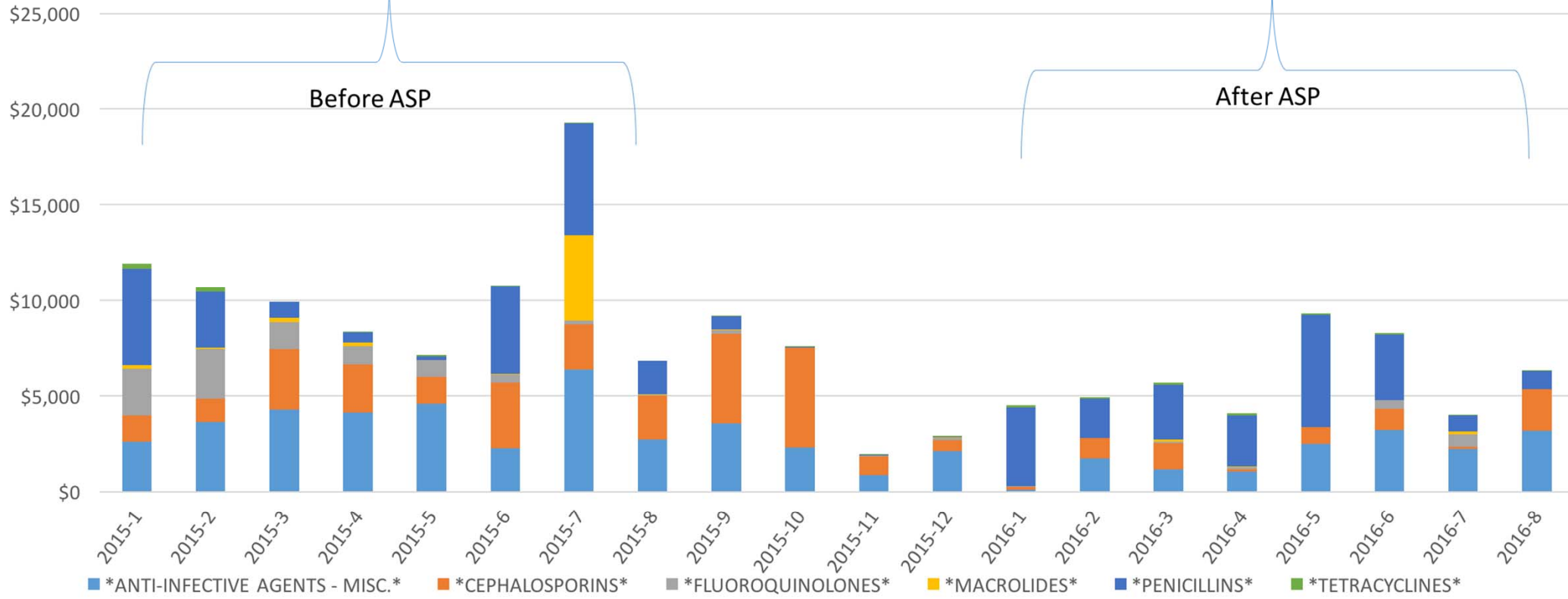


Urban Facility B	Cefazolin	-0.80	0.20		
Rural Facility B	Ceftazidime	-0.81	0.0014		
Urban Facility C	Ceftriaxone	-0.82	0.0003		
Rural Facility A	TMP-SMX	-0.90	0.50		
Rural Facility B	Cefepime	-0.92	0.07		
Urban Facility C	TMP-SMX	-1.08	0.0001		
Urban Facility C	Aztreonam	-1.10	0.30		
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Urban Facility B	Levafloxacin	-2.61	0.0033		
Rural Facility B	Amox-Clav	-2.61	0.0022*		
Rural Facility A	Ciprofloxacin	-2.80	0.20		
Rural Facility B	Ampicillin	-2.80	0.10		
Rural Facility A	Levafloxacin	-3.30	0.10		
Urban Facility B	Ampicillin	-3.30	0.10		
Rural Facility B	Levafloxacin	-3.77	0.0033		
Urban Facility B	Amox-Clav	-5.20	0.03	0.70	0.62
Urban Facility B	Ciprofloxacin	-5.93	0.02	-0.09	0.95

The Valley Hospital Antimicrobial Stewardship Program



Financial Impact of Antibiotic Stewardship Nursing Home



Impact of Antibiotic Stewardship on CDI at Nursing Home

