



SAINT VINCENT AND THE GRENADINES NATIONAL SURVEILLANCE EXPERIENCES

By Mr. Haze John
Medical Technologist

National surveillance experiences: (SAINT VINCENT AND THE GRENADINES)

1. System structure

Specimen Collection Sites:

The Milton Cato Memorial Hospital (MCMH)

All Health Centres and Public Clinics

All Private medical Hospitals and Clinics

All Private laboratories

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1. System structure

- Data generated by the MCMH Pathology Laboratory
- Collected and presented weekly to our National Surveillance Committee
- Infection Control Department also collect data on a weekly basis

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2. Computer tools

- CGM SCHYLAB LABORATORY INFORMATION SYSTEM
- WHONET
- BACKLINK
- EXCEL

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Information flow



Data is generated by the MCMH Pathology Laboratory

Kirby-Bauer disk diffusion susceptibility methodology utilized guided by The Clinical and Laboratory Standards Institute (CLSI) standards.



Weekly Data collection and presentation to the National Surveillance Committee



Weekly Data collection by the Infection Control Department

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4. Data quality assurance (quality control)

- Sterility check on all batches of Media Plates, after preparing and recording of the preparation date on each agar plate.
- Checking media & disc storage, refrigerator & incubator temperature twice per day (-20 freezer & 35 degree Celsius).
- Process samples that meet our quality standard.

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4. Data quality assurance (quality control)

- Perform Susceptibility testing on ATCC control strains to evaluate antimicrobial disc and media quality.
- Participate in susceptibility EQA (Oneworld Accuracy & Caribbean EQA in Bacteriology and AMR) program.
- There is no duplication of data.

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5. Surveillance results and publication of alerts

Antibiogram data for *S. aureus* from all sources, 2022

Organism	Number of Strains	%S								
		Penicillin G	Oxacillin	Ciprofloxacin	Clindamycin	Tetracycline	Erythromycin	Chloramphenicol	Trimethoprim/ Sulfamethoxazole	Nitrofurantoin
All <i>S. aureus</i>	190	14	76	71	90	98	55	98	95	100
MRSA	45	0	0	20	81	91	5	98	92	100
MSSA	145	18	100	86	93	100	71	99	96	100

National surveillance experiences: (SAINT VINCENT AND THE GRENADINES)

5. Surveillance results and publication of alerts

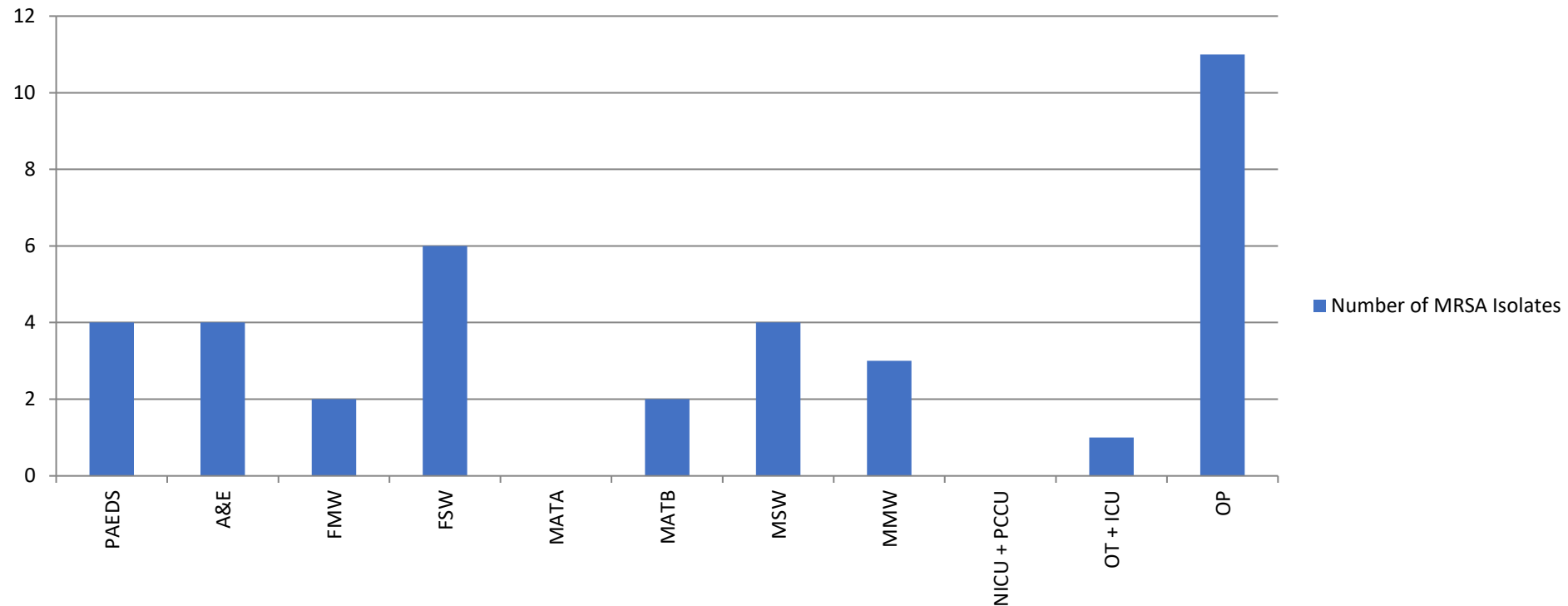
Antibiogram data for *S. aureus* from blood cultures, 2022

Organism	Number of Strains	%S							
		Penicillin G	Oxacillin	Ciprofloxacin	Trimethoprim/Sulfamethoxazole	Clindamycin	Erythromycin	Chloramphenicol	Tetracycline
<i>S. aureus</i>	11	0	73	91	100	100	73	100	100

National surveillance experiences: (SAINT VINCENT AND THE GRENADINES)

5. Surveillance results and publication of alerts

Distribution of MRSA Isolates by Location, 2022



National surveillance experiences: (SAINT VINCENT AND THE GRENADINES)

5. Surveillance results and publication of alerts

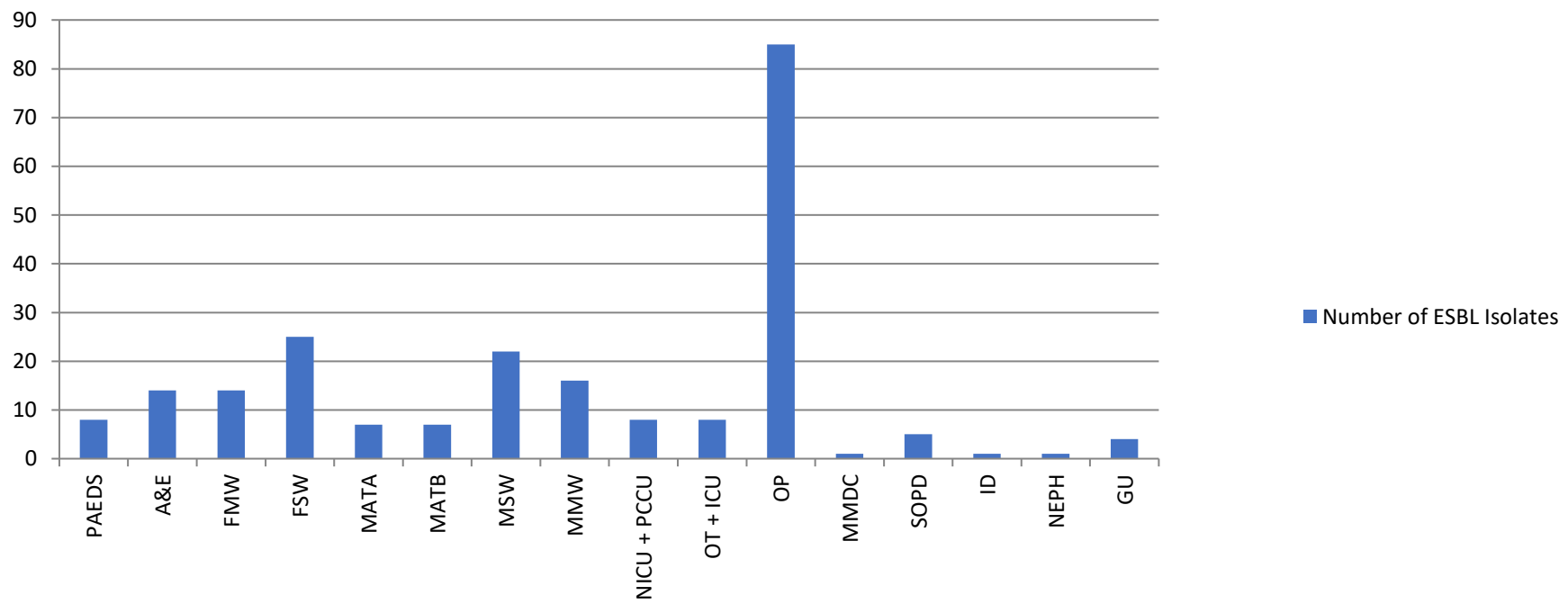
Antibiogram data for *Enterobacteriaceae* from all sources, 2022

Organism	Number of Strains	%S															
		Amoxicillin/Clavulanic acid/Piperacillin/Tazobactam	Cefazolin	Ceftazidime	Cefotaxime	Ertapenem	Imipenem	Meropenem	Amikacin	Gentamicin	Tobramycin	Nalidixic acid	Ciprofloxacin/Trimethoprim/Sulfamethoxazole	Nitrofurantoin	Tetracycline		
All <i>Enterobactiaece</i>	834	50	78	16	66	66	92	81	97	93	76	70	45	53	56	62	58
ESBL Positive	282	11	45	0	0	0	78	72	93	84	43	32	10	15	20	29	36

National surveillance experiences: (SAINT VINCENT AND THE GRENADINES)

5. Surveillance results and publication of alerts

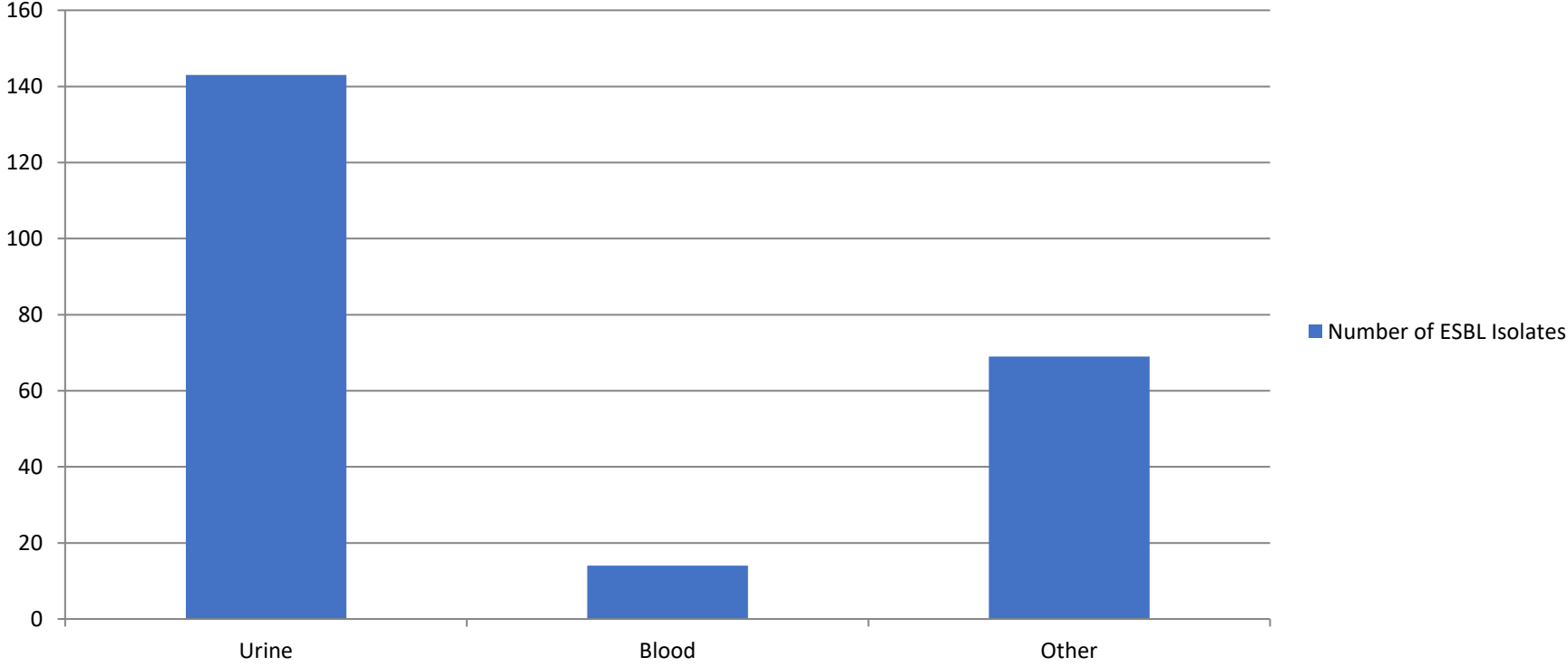
Distribution of ESBL Isolates by Location, 2022



National surveillance experiences: (SAINT VINCENT AND THE GRENADINES)

5. Surveillance results and publication of alerts

Distribution of ESBL Isolates by Specimen Type, 2022



National surveillance experiences: (SAINT VINCENT AND THE GRENADINES)

5. Surveillance results and publication of alerts

Antibiogram data for *Pseudomonas aeruginosa* from all sources, 2022

Organism	Number of Strains	%S							
		Piperacillin/Tazobactam	Ceftazidime	Imipenem	Meropenem	Amikacin	Gentamicin	Tobramycin	Ciprofloxacin
<i>Pseudomonas aeruginosa</i>	109	86	88	84	84	93	91	95	81

National surveillance experiences: (SAINT VINCENT AND THE GRENADINES)

5. Surveillance results and publication of alerts

Antibiogram data for *Neisseria gonorrhoea* , 2022

Organism	Number of Strains	%S				
		Penicillin G	Ceftriaxone	Spectinomycin	Ciprofloxacin	Tetracycline
<i>Neisseria gonorrhoea</i>	25	4	100	100	76	20

National surveillance experiences: (SAINT VINCENT AND THE GRENADINES)

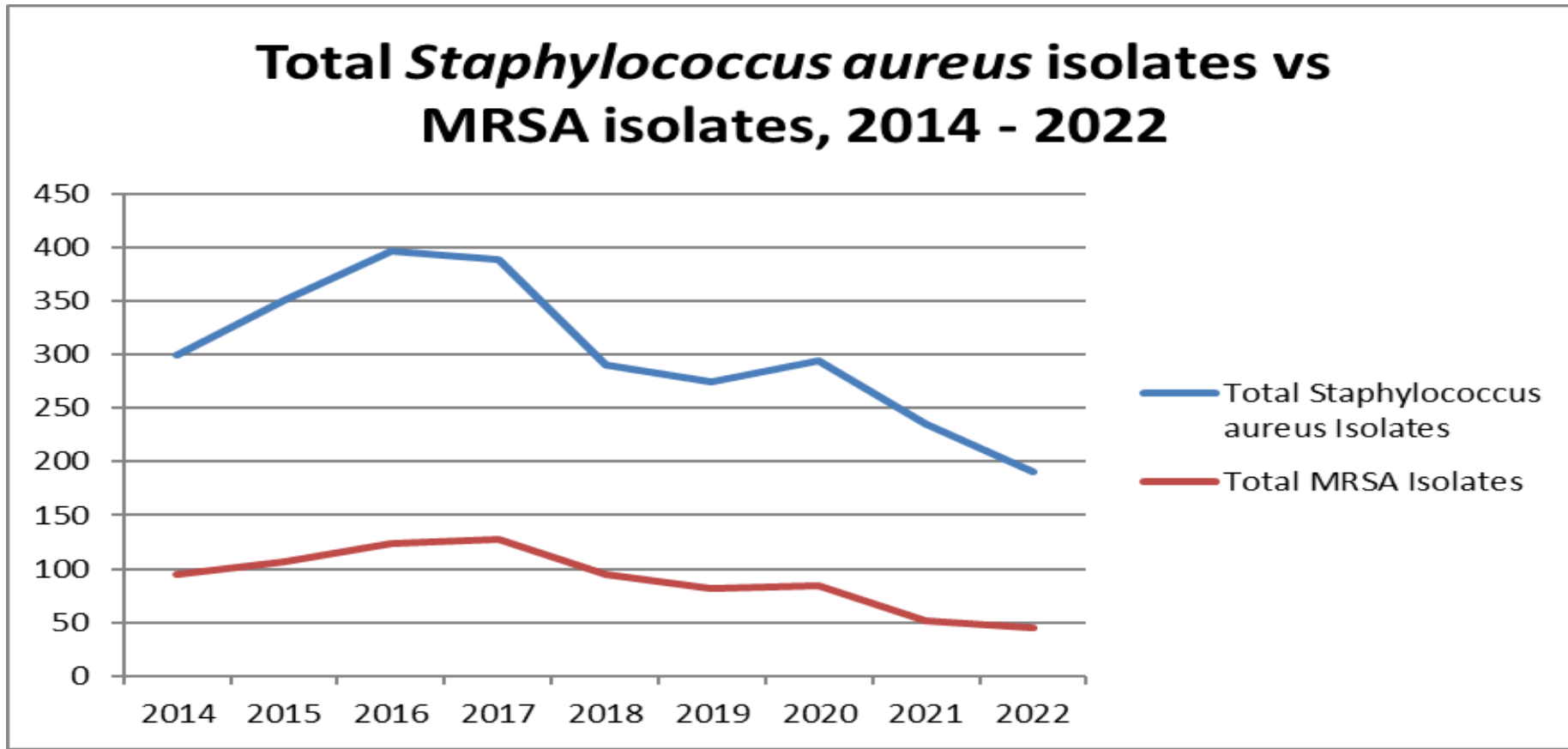
5. Surveillance results and publication of alerts

Antibiogram data for *Enterococcus sp.* from all sources, 2022

Organism	Number of Strains	%S						
		Penicillin G	Ampicillin	Ciprofloxacin	Erythromycin	Nitrofurantoin	Vancomycin	Tetracycline
All <i>Enterococcus sp.</i>	150	85	99	40	3	98	99	24

National surveillance experiences: (SAINT VINCENT AND THE GRENADINES)

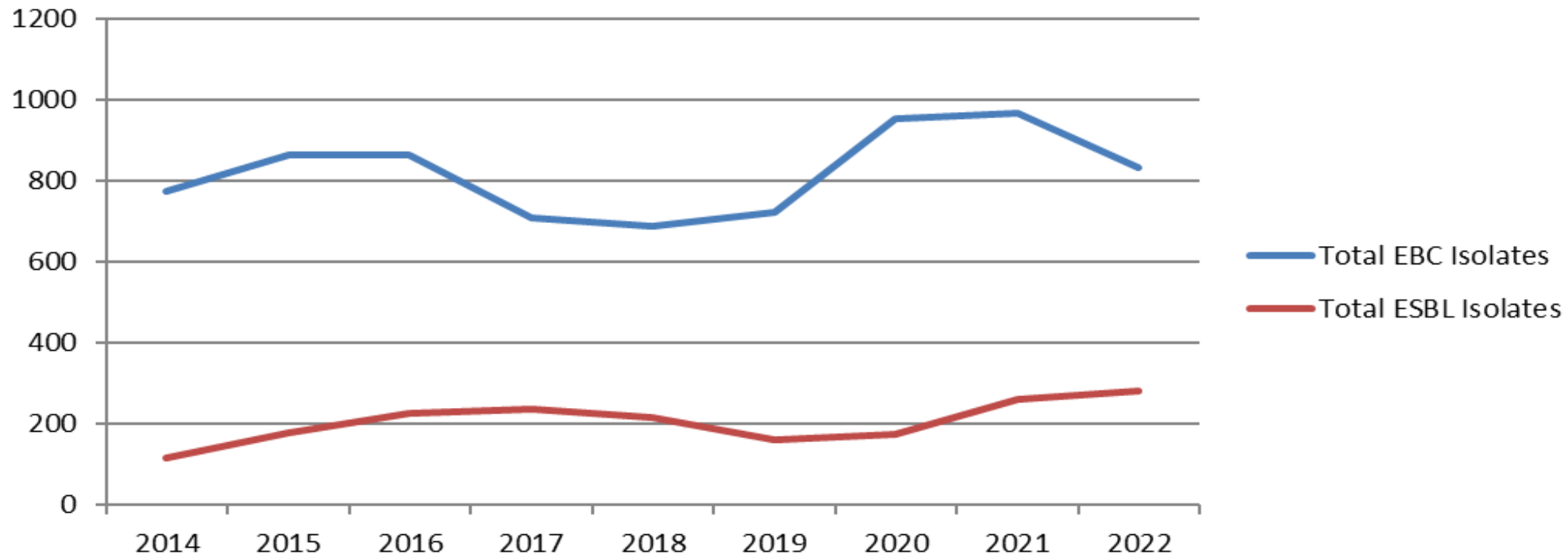
5. Surveillance results and publication of alerts



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5. Surveillance results and publication of alerts

Total *Enterobacteriaceae* isolates vs ESBL isolates, 2014- 2022.



THANK YOU!

