



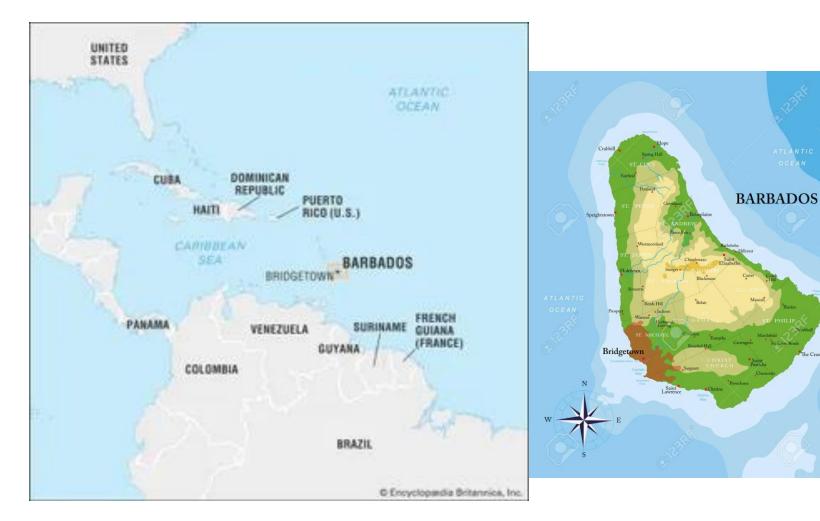
# Session 3: Surveillance: Aggregated and isolate level data – National Surveillance 'The Barbados Experience'

Songee Beckles

Director, Best-dos Santos Public Health Laboratory

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## BARBADOS



- 166 square miles
- Population approx.280.000
- 1 Public Hospital with approx. 520 beds
- 1 National Public Health Laboratory
- 2 government Lab in agriculture (Vet Lab and Analytical Lab)
- 3 private laboratories with bacteriology capabilities



#### 1. System structure

## Strong Leadership

1. Government support, individual leadership at MOH, MOA and Vet, MOE 2.AMR and IPC led from PM office

Structured Effective Programs Coordination/Cooperation 1.National Infection Prevention and Control Committee (NIPCC) 2.Antimicrobial Stewardship – National Program (Needed) 3.Continuing Education and Program/Projects :- PAHO, SHEA, CDC-Atlanta, CARPHA

4. Malburn/ Barbados Cooperation



1. System structure

GAP: Laboratory Surveillance System -2 Sentinel Sites Lone acute care hospital lab (QEH Lab monitors CRKP) and the Best-dos Santos Public Health laboratory (BDSPHL)

BDSPHL samples from public clinics, private labs and QEH Lab

Private labs-Isolates from urine (ESBLs and KPCs)

Vet Lab – Isolates from raw chicken or table eggs (mainly ESBLs)

QEH isolates from urine, blood cultures and rectal swabs (ESBLs, KPCs and MBLs or a

combination.



Outbreaks identification and management within QEH eg 2018 & 2023 Burkholderia

cepacia; E.Coli outbreak (2023) and Kleb pneumo in the past.

What is Needed?

Adopt GLASS approach

On Health Approach (Health, Agriculture and Environment)

National action plan on Antimicrobial Resistance in accordance with WHO's global action plan; Utilized the GLASS Guide

Surveillance at long term care facilities and active community surveillance



1. System structure-Future

Strengthen identification and AST

Vitek II, MS Prime

Genotyping

Sequencing and Bioinformatics

Strengthen local laboratory network

Review laboratory practices at all medical laboratories



2. Computer tools

WHONET- The QEH Laboratory and the BDSPHL

Additional training for major stakeholders will commence in August



3. Information flow

GAP: Previously not standardized and surveillance incomplete

Dissemination of information is adhoc

Future Plans: Epidemiology, Animal and Environment part of information flow



4. Data quality assurance (quality control)

Barbados participates in the EQA from Malbran Institute, Argentina from 2019

Barbados is currently one of the countries participating in a multi center study aimed at determining the sensitivity and specificity of HAIS case definitions. Data collection starts in August



5. Surveillance results and publication of alerts

Acute Care Hospital Published in Hospital and to MOH – Alert Organism according

to WHO priority organism. Recently flagged was E. coli (CRO)

This is not yet done in MOA or MOE



- 5. Surveillance results and publication of alerts
- The alert system should be able to determine if antimicrobials in animal feed
- Expansion of HACCP certified farms
- Development of a local traceability system
- Public relation and education
- Medicinal waste system

#### Research

## Ministry of Health and Wellness





### Ministry of Agriculture and Food Security

**Government Analytical Services** 

