

November 15th, 2022

Agenda

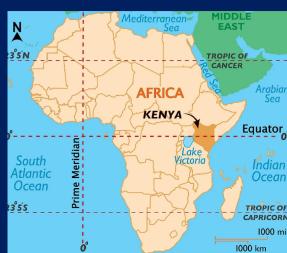
AMS project in Kenya

 Dupali Jain, Dharm F

Rupali Jain, PharmD

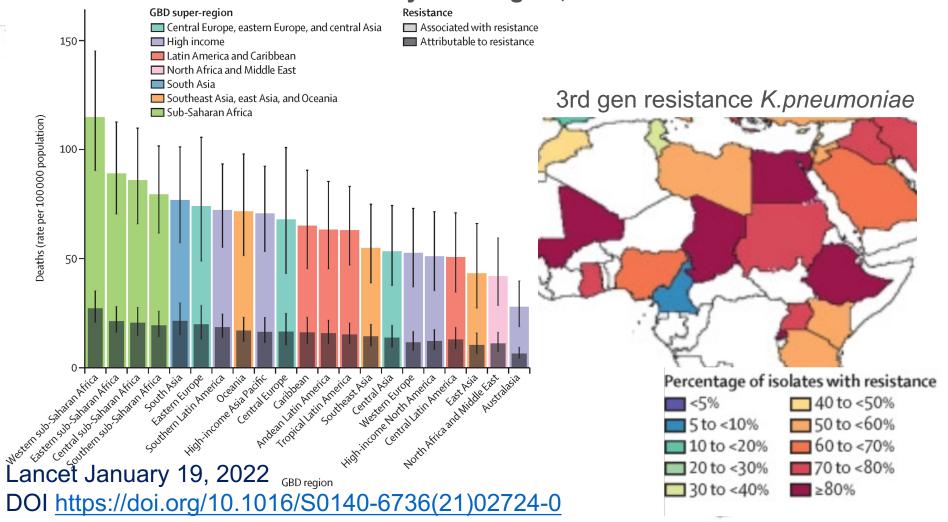
- Case Discussions
- Open Discussion





AMR Burden

All-age rate of deaths attributable to and associated with bacterial antimicrobial resistance by GBD region, 2019



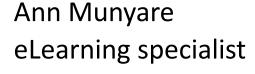
Team



Rod Adam, MD Chair AMS Committee



John B Lynch





Rupali Jain

Mary Kaniu Pediatric Resident

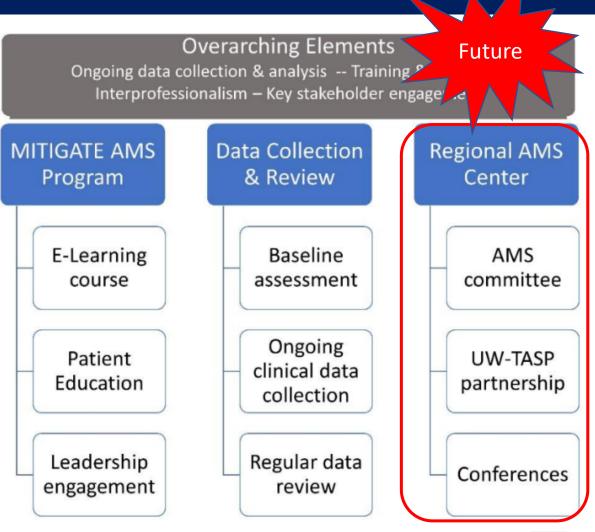


Aliza Monroe-Wise Chief Medical Officer Kenyatta University



Project

- ✓ E-learning course
- ✓ Pre and post survey for clinicians
- ✓ Semi-structured interviews with stakeholders
- ✓ Review of practices post module
- ✓ Patient surveys
- ✓ Patient education for clinics





Setting: AKU Clinics



Urban Kenya Medical

Hospital

300 bed hospital

- ID fellowship
- -AMS program

Few clinical pharmacists

20 surrounding clinics

Clinics:

-Lab, Pharmacy - onsite



Penda Health

- 17 clinics in Nairobi area
- goal of providing affordable health care from the private sector for lowincome Kenyans.
- On-site Labs and Pharmacy



Training Program

eLearning course based in Moodle platform

Target audience: primary care providers in outpatient settings

- Clinical officers
- Medical officers
- Pharmacy technologists

Asynchronous, interactive

- Cases
- Open-ended questions with explanatory answers
- Drag and drop

5 modules, each with a 5-question guiz at the end



Module	Unit
1. Overview of AMR & AMS	 Principles of antimicrobial resistance Strategies to combat antimicrobial resistance Diagnostic stewardship Basics of microbiology
2. Antimicrobial basics	 Pharmacokinetics & pharmacodynamics (PK/PD) Dose & duration Antibiotic drug classes Mechanisms of resistance
3. Syndromes (adult-focused)	 Community acquired pneumonia Urinary tract infections Skin and soft tissue infections Gastroenteritis Lower respiratory tract infections Upper respiratory tract infections
4. Syndromes (pediatric)	 Community acquired pneumonia Gastroenteritis
5. How to apply stewardship	 Core elements of AMS programs Behavior change and inter-professionalism Metrics and the MITIGATE toolkit

Training program: Audience

15 clinics at AKU & 15 Clinics at Penda Health Medical Officers

- medical school who have finished an internship
- -no specialty training

Clinical Officers

-mid-level providers staff at urgent care clinics

Pharmacy technologist

fill prescriptions in the outpatient centers



Semi-structured interviews

- to determine awareness of AMR and enthusiasm and prioritization of AMS within the clinic
- Goal: interview 30 clinic leaders
 - The leaders may include Medical Officer in charge, Nurse in Charge or Branch Managers.





Barriers and Challenges

- Clinicians are busy!
- Slow uptake of AMS module and surveys



Future Efforts







INCREASING AWARENESS AND DISTRIBUTION OF THE TRAINING MODULE



Video

https://app.vyond.com/videos/407fbdb8-83f5-4825-896c-e8a647197bba

Module:

https://rise.articulate.com/share/qEfCHSUUXVMscOporMou 7tCL010A5CK#/lessons/a EDWP9jXSAGx2DdXTwwYVlRqyDgpWyf





The Aga Khan University Hospital, Nairobi

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- Nath Arwa
- Ann Munyare
- Mary Kaniu



Rob Korom



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