Partner Organization and Background information in Kenya

• Kenya Medical Research Institute (KEMRI)
• Mission:
• Research focus:
• Principal investigator: Dr. Sam Kariuki
Internship:

- Project AIM: Antibiotic resistance in human infections: what surveillance tells us
- Methodology: Literature review and sentinel surveillance
- Results obtained:
1st line Antibiotic susceptibility and resistant testing for Gram-positive bacteria isolated from wound sepsis

Antibiotics used on S. aureus (left) and Coagulase negative Staphylococcus (right)
1st line Antibiotic susceptibility and resistant testing for Gram-positive bacteria isolated from wound sepsis.

Antibiotics used on S.aureus(left) and Coagulase negative Staphylococcus(right)
Challenges

- Funding issues versus Government priorities in Public Health a challenge
- Materials e.g. media, antibiotic discs, petri dishes etc inadequate
- Equipment such as autoclaves, incubators and microscopes inadequate
- Collection of specimens not well supervised
- Several labs still require training support for their staff in order to undertake quality AST and surveillance.
- National/Regional surveillance still not fully achieved
Examples of other topics presented included:

- Pneumococcal and *Haemophilus influenzae* isolates
- Surveillance for antibiotic resistance in a private hospital in Nairobi
- Pharmacovigilance and antibiotics
- Overview of antibiotic use and resistance in animals
- Do Economic Incentives (or Disincentives) Affect Antibiotic Use
- Opportunities for disease prevention and antimicrobial use reduction through new vaccines
- Observations from Neighboring Countries
- NEXT STEPS!!!!
Reflections!!!
Acknowledgements

• Grand Challenges
• PEI
• Resources for the Future
• KEMRI

Thank you!!!