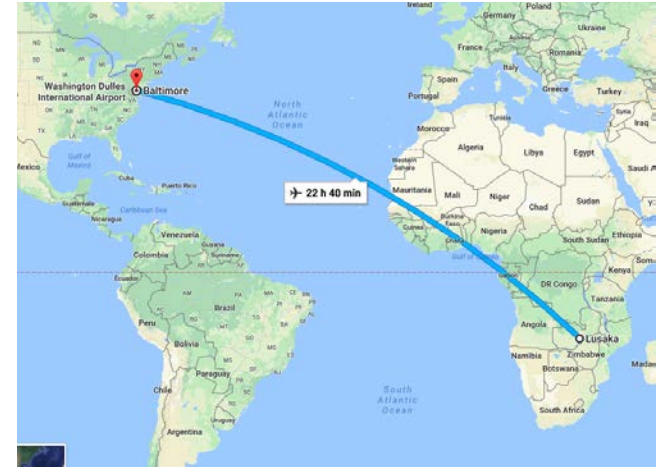
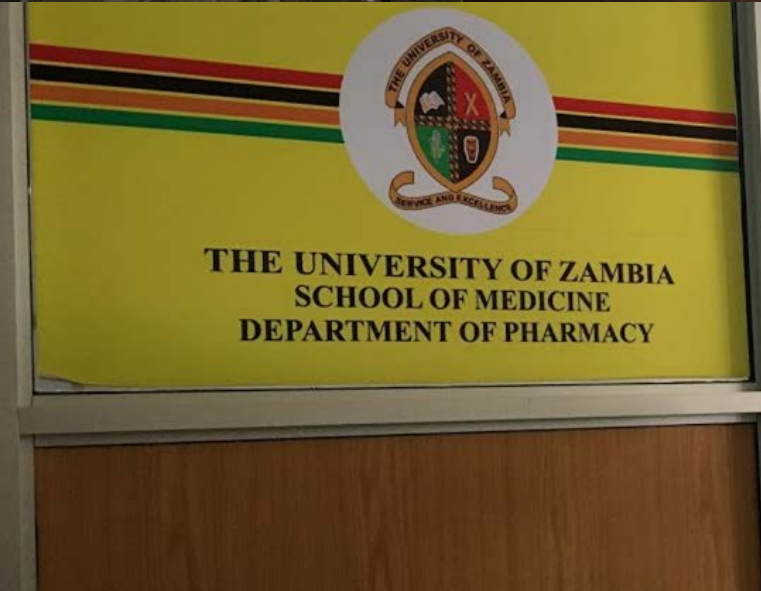

Antimicrobial Stewardship at the University Teaching Hospital in Lusaka, Zambia

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Background

- ❖ University Teaching Hospital (UTH) in Lusaka, Zambia
- ❖ UMB meets UTH via the President's Emergency Plan for AIDS Relief (PEPFAR)
- ❖ The World Health Organization Global Action Plan







What We Did

- ❖ Interprofessional infectious disease rounds
- ❖ 3rd line HIV clinic
- ❖ Pediatric HIV clinic
- ❖ Main Pharmacy and Satellite pharmacies tour
- ❖ Pharmacy school tour
- ❖ **Infectious disease quality improvement (QI) research project**



Research (QI) Project

Aim: Determine antibiotic administration patterns in the medical, surgical and high cost wards of the UTH in Lusaka, Zambia

Purpose: Antibiotic resistance is caused by multiple mechanisms with contributing factors such as, misuse of antibiotics, improper administration, missed doses, and incomplete antibiotic courses.

Methods: A retrospective, cross-sectional study; chart review of antibiotic doses prescribed and administered within wards at UTH was completed

Research (QI) Project: Findings

- ❖ A total of 203 charts in the medical, surgical and high cost wards combined were reviewed as having antibiotics prescribed to patients

Medical Ward: 8.45% of total antibiotic doses missed

Surgical Ward: 13.7% of total antibiotic doses missed

High Cost: 0% of total antibiotic doses missed

Research QI Project: Discussion

- ❖ Doses given at increasing frequency more often missed
- ❖ Doses given intravenously (IV) more often missed
- ❖ Many antibiotic doses missed which can lead to:
 - Incomplete antibiotic course and treatment failure
 - Antibiotic resistance
 - Spread of infection

Research QI Project: Future Directions

Education

- ❖ Nurses
 - Importance of appropriate antibiotic administration
- ❖ Pharmacists
 - Effects of delayed antibiotic dispensing
- ❖ Physicians
 - Importance of complete prescriptions with clear directions

What We Learned

❖ Research Project

- Gap in antibiotic and health care services
- Gap in importance of antimicrobial stewardship education
- Impact of limited resources

❖ Interprofessionalism

- UMB Students Together
- UMB with UTH Staff (Medicine, Nursing, Pharmacy)

❖ Individual Experiences

What questions can we answer?

