

POSTER PRESENTATION

Open Access

P085: Surveillance of drug-resistant *Salmonella* sp and *Shigella* sp infections in Rwanda

JB Gatabazi

From 2nd International Conference on Prevention and Infection Control (ICPIC 2013)
Geneva, Switzerland. 25-28 June 2013

Introduction

Salmonella sp. and *Shigella* sp infections are public health threat worldwide, particularly in Sub-Saharan Africa including in Rwanda. This study was done to identify *Salmonella* sp. and *Shigella* sp. currently circulating in Rwanda and determine their drug susceptibility pattern.

Objectives

To determine the prevalence of *Salmonella* spp. and *Shigella* spp. strains circulating in Rwanda and their susceptibility pattern in Rwanda.

Methods

196 blood and 24 stool specimens from patients were analyzed in Laboratory of Rwanda for culture isolation, identification and drug-sensitivity testing.

Results

91 (92.2 %) of them were identified as *Salmonella enterica* serovar Typhi, 10 were *Shigella* sp. The isolates were subsequently subjected to antibiotic susceptibility tests and the strains of *S.*Typhi isolates were found to be susceptible to cefotaxime (100%), and ciprofloxacin (97.9 %) and resistant to nalidixic acid (89.4%), cotrimoxazole (87.2%). With regard to *Shigella* infections, the antibiotics which showed 100% susceptibility to all species identified were ciprofloxacin, cefotaxime, ceftazidime.

Conclusion

The prevalent *Salmonella* strain circulating in Rwanda is *S.*Typhi and two most useful drugs of choice to treat *Salmonella* sp. and *Shigella* sp. infections in Rwanda are cefotaxime and ciprofloxacin.

Disclosure of interest

None declared.

Published: 20 June 2013

doi:10.1186/2047-2994-2-S1-P85

Cite this article as: Gatabazi: P085: Surveillance of drug-resistant *Salmonella* sp and *Shigella* sp infections in Rwanda. *Antimicrobial Resistance and Infection Control* 2013 **2**(Suppl 1):P85.

Submit your next manuscript to BioMed Central and take full advantage of:

- Convenient online submission
- Thorough peer review
- No space constraints or color figure charges
- Immediate publication on acceptance
- Inclusion in PubMed, CAS, Scopus and Google Scholar
- Research which is freely available for redistribution

Submit your manuscript at
www.biomedcentral.com/submit



Laboratory Department, Rwanda Military Hospital Kigali, Kigali, Rwanda