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### Infection prevention and control and antibiotic stewardship

*Two sides of the same coin in the prevention of antimicrobial resistance*

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The background of the cover is a microscopic view of various bacteria, including rod-shaped and spherical forms, some with flagella. Scattered throughout are several blue and white capsules. The entire scene is set against a light blue background with a subtle grid pattern. The cover is framed by a dark blue border with a repeating geometric pattern of triangles and circles.

**Infection prevention and control and  
antibiotic stewardship: two sides of  
the same coin in the prevention of  
antimicrobial resistance**

**JACKSON MICHUKI MAINA**



Infection prevention and  
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prevention of antimicrobial  
resistance

Jackson Michuki Maina

This thesis was prepared at the Faculty of Medicine, Academic Medical Center of the University of Amsterdam, The Netherlands and at the KEMRI-Wellcome Trust Research Programme, Nairobi Kenya.

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Infection prevention and control and antibiotic stewardship:  
two sides of the same coin in the prevention of antimicrobial  
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## **ABBREVIATIONS**

A&F: Audit and feedback

ABS: Antibiotic Stewardship

AMR: Antimicrobial Resistance

ATC: Anatomical Therapeutic Chemical Classification System

BPP: Basic Paediatric Protocols

CIN: Clinical Information Network

ETAT+: Emergency Triage Assessment and Treatment Plus Admission

HAI: Hospital-Acquired Infections

IQR: Interquartile range

IPC: Infection Prevention and Control

KEMRI: Kenya Medical Research Institute

LMIC: Low and middle-income countries

MOH: Ministry of Health

NAR: Neonatal Admission Record

PPS: Point Prevalence Survey

REDCap: Research Electronic Data Capture

WASH: Water Sanitation and Hygiene

WASH-FIT: Water Sanitation and Hygiene Facility Improvement Tool

WASH-FAST: Water Sanitation and Hygiene facility survey tool

WHO: World Health Organisation