



A Systematic Review of Standardised Surgical Instrument Processing Protocols and Their Impact on Postoperative Infection Rates in Rwandan District Hospitals: 2003 Evidence

Marie Aimee Mukamana¹, Jean de Dieu Uwimana^{2,3}

¹ University of Rwanda

² Rwanda Environment Management Authority (REMA)

³ Department of Epidemiology, University of Rwanda

Published: 14 August 2003 | **Received:** 17 April 2003 | **Accepted:** 01 July 2003

Correspondence: mmukamana@aol.com

DOI: [10.5281/zenodo.18531747](https://doi.org/10.5281/zenodo.18531747)

Author notes

Marie Aimee Mukamana is affiliated with University of Rwanda and focuses on Medicine research in Africa.

Jean de Dieu Uwimana is affiliated with Rwanda Environment Management Authority (REMA) and focuses on Medicine research in Africa.

Abstract

This study addresses a current research gap in Medicine concerning Measuring the reduction in surgical infection rates after implementing a standardized surgical instrument processing protocol in district hospitals in Rwanda in Rwanda. The objective is to clarify key debates, identify practical implications, and outline a focused agenda for scholarship and policy. A structured review of relevant literature was conducted, with thematic synthesis of key findings. The analysis indicates persistent structural constraints alongside emerging local innovations; however, evidence remains uneven across contexts and sectors. The paper argues for context-specific approaches and stronger empirical foundations in future research. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Measuring the reduction in surgical infection rates after implementing a standardized surgical instrument processing protocol in district hospitals in Rwanda, Rwanda, Africa, Medicine, systematic review This structured abstract provides a standardised summary to support rapid screening, indexing, and assessment of scholarly contribution.

Keywords: *Surgical instrument decontamination, Postoperative infection, Low-resource settings, Sub-Saharan Africa, Rwanda, Infection control protocols, Sterilisation*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge