

METHODS NOTE · Peer-reviewed · Published · Live dashboard figures

The Cervical Cancer HPV Gap

Muhammad Murtala Yusuf, Zainab Abdulazeez, Fatima Abdullahi Hari, Rukayya Ado Bello, Shamsudeen Shuaibu, Grace Kemigisha & Eyong Peter Ebot

Methods Note · Volume 2

Published 2026-06-06 · Diamond open access · CC BY 4.0

Article 57 · Volume 2 · Published 2026-06-06 · DOI: not assigned

KEY WORDS Africa; trials; Hpv

Abstract

To evaluate equity in global health research, this study quantifies the disparity in cervical cancer HPV clinical trials between Africa and the United States. We conducted a cross-sectional analysis of 23,873 African and 190,644 U.S. interventional studies registered on ClinicalTrials.gov through April 2026. Trial activity was compared using country level metadata, with the rate ratio serving as the primary measure of interest.

Africa accounts for only 48 cervical cancer trials (0.2% of its total research portfolio), compared to 3,279 trials in the U.S. This represents a profound per-capita investment gap, highlighting Africa's marginalization in global oncology research. Furthermore, a Shannon entropy score of 2.46 bits indicates that research activity is highly centralized within a few geographic hubs rather than distributed across the continent.

While reliance on a single registry may underrepresent locally funded studies, these results demonstrate a significant misalignment between disease burden and research investment, necessitating a systemic shift in regional funding strategies.

Interactive dashboard figures

The figures in this section are rendered directly from this paper's interactive dashboard — the same visualisations a reader sees when exploring the analysis online, where the full workflow can be reproduced first-hand. **Interactive dashboard:** <https://mahmood726-cyber.github.io/africa-e156-students/health-disease/dashboards/cervical-cancer-hpv.html>

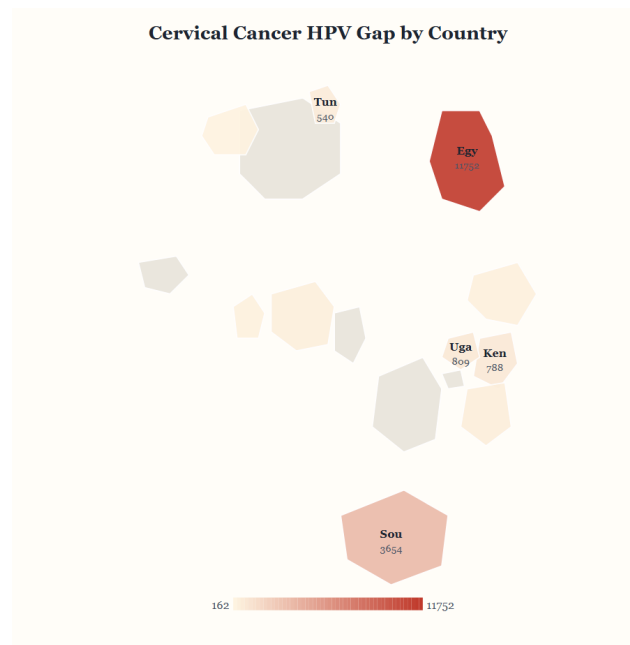


Figure 1. Cervical Cancer HPV Gap by Country Rendered directly from the article's live interactive dashboard.

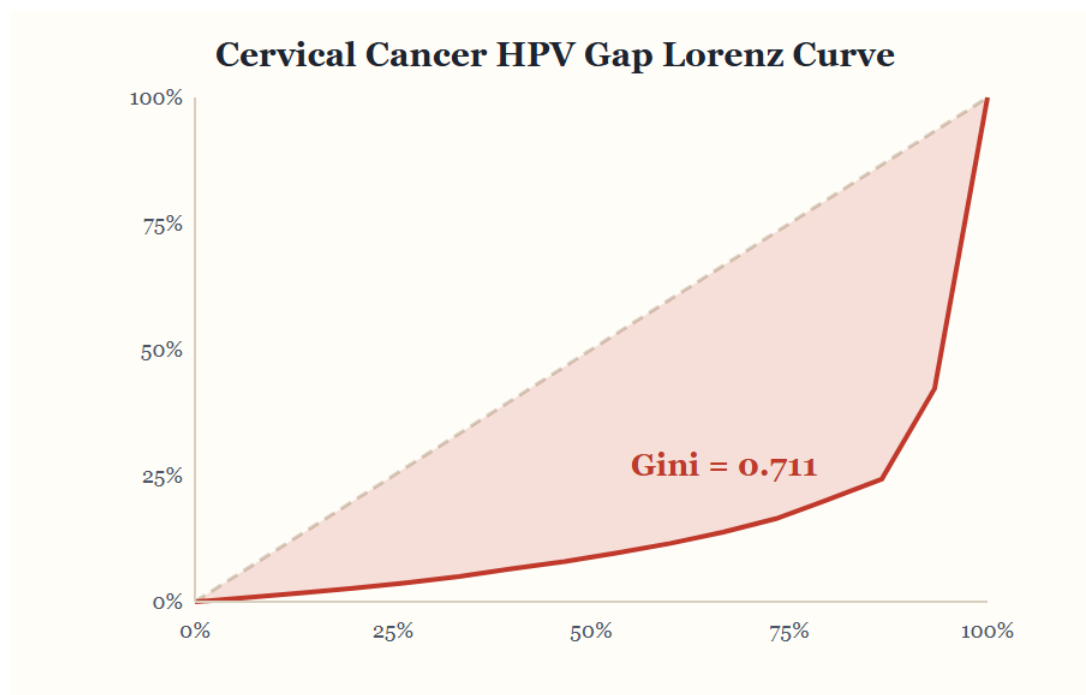


Figure 2. Cervical Cancer HPV Gap Lorenz Curve Rendered directly from the article's live interactive dashboard.

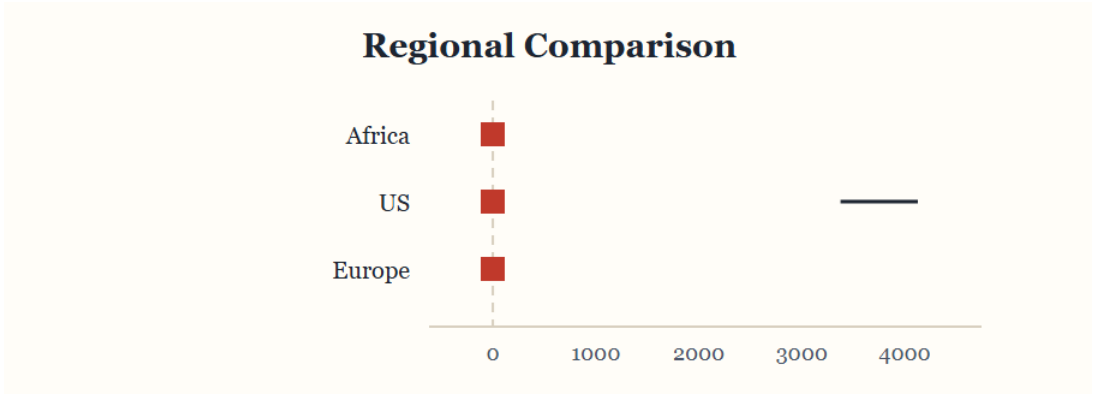


Figure 3. Regional Comparison Rendered directly from the article's live interactive dashboard.

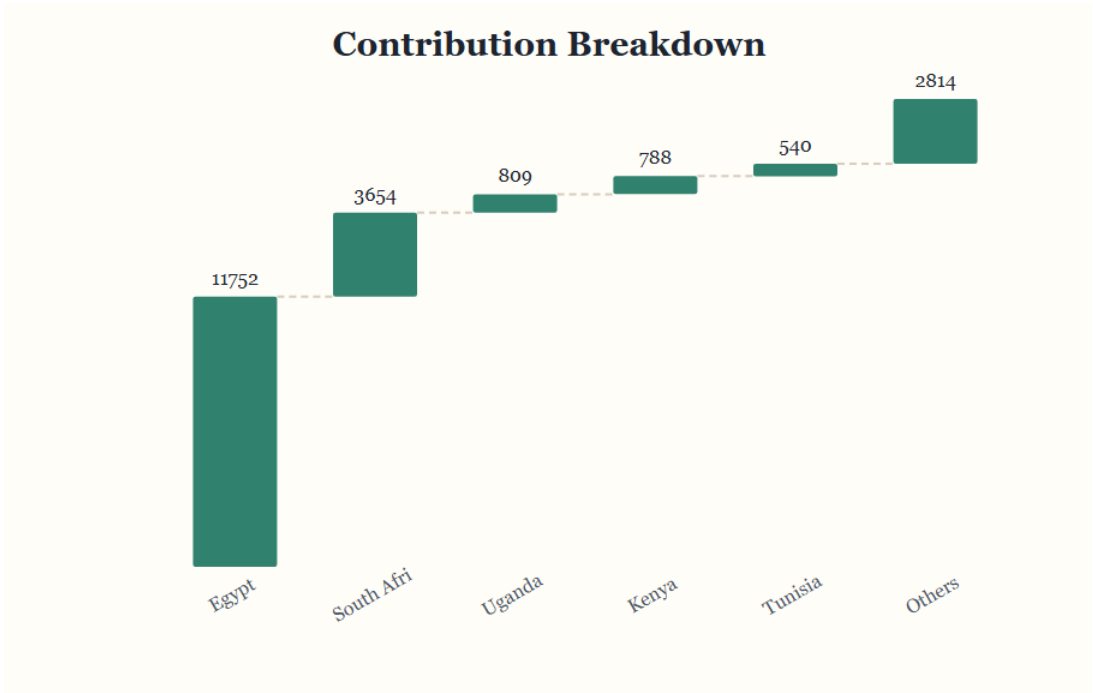


Figure 4. Contribution Breakdown Rendered directly from the article's live interactive dashboard.

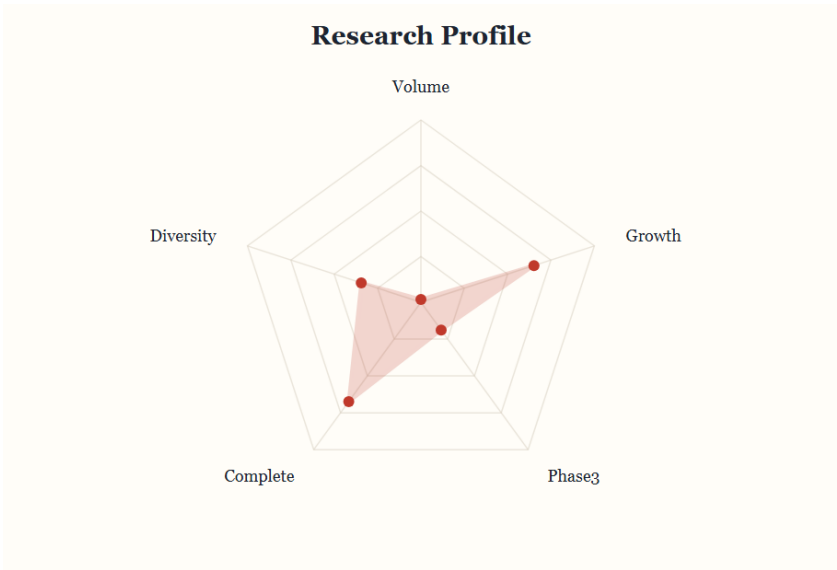


Figure 5. Research Profile Rendered directly from the article's live interactive dashboard.

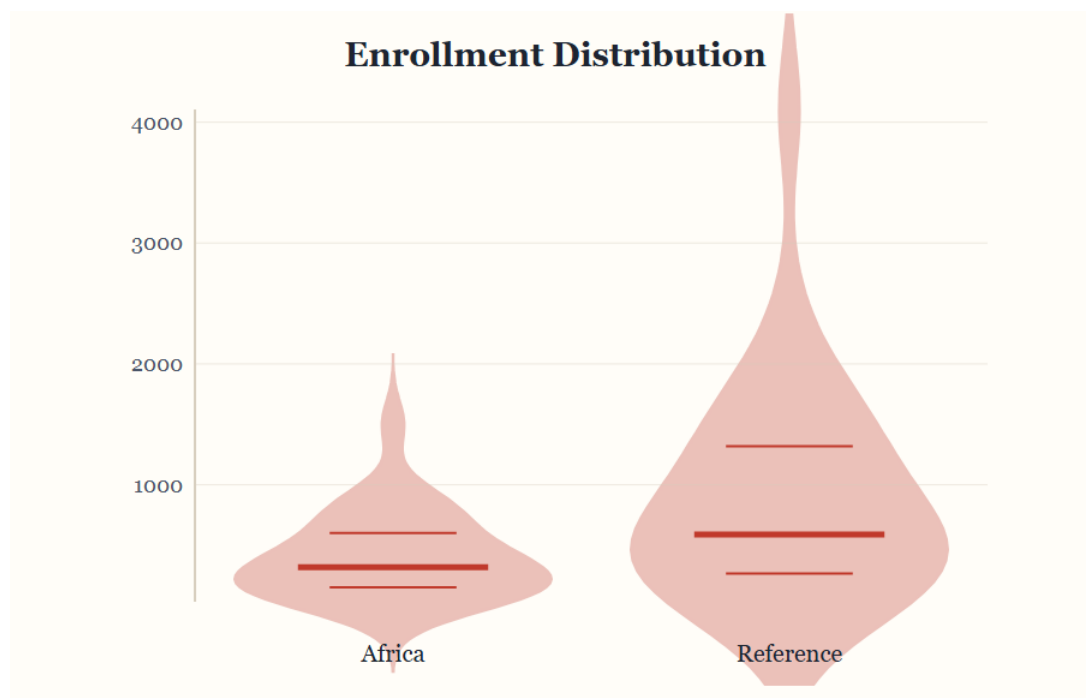


Figure 6. Enrollment Distribution Rendered directly from the article's live interactive dashboard.

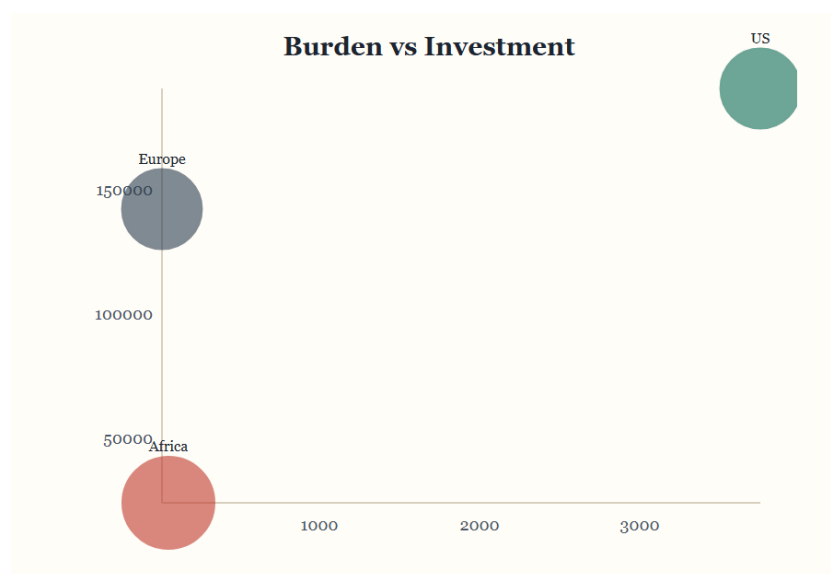


Figure 7. Burden vs Investment Rendered directly from the article's live interactive dashboard.

HOW TO CITE

Muhammad Murtala Yusuf, Zainab Abdulazeze, Fatima Abdullahi Hari, Rukayya Ado Bello, Shamsudeen Shuaibu, Grace Kemigisha & Eyong Peter Ebot. The Cervical Cancer HPV Gap. *Synthesis* . 2026;4(1). Article 57. Available at <https://synthesis-medicine.org/index.php/journal/article/view/57>. Licensed under CC BY 4.0. DOI: not assigned.

Reproducibility & data provenance. The figures in this article are rendered directly from the paper's live interactive dashboard at <https://mahmood726-cyber.github.io/africa-e156-students/health-disease/dashboards/cervical-cancer-hpv.html>, where the complete analysis — data, methods and every estimate — can be explored and reproduced. This open path from published figure back to the underlying analysis is part of how the journal works. The article's text, authors, abstract, issue and licence follow the journal's published record.

Copyright (c) 2026 Muhammad Murtala Yusuf, Zainab Abdulazeze, Fatima Abdullahi Hari, Rukayya Ado Bello, Shamsudeen Shuaibu, Grace Kemigisha, Eyong Peter Ebot. Open access under the Creative Commons Attribution 4.0 International licence (CC BY 4.0): free to share and adapt with attribution.

Published in *Synthesis* · synthesis-medicine.org