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

## HIV Trial Saturation Index

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### Abstract

In the context of Africa health research verses the investment, does clinical trials in HIV reveal imbalance in scientific research in Africa compared to the United State? A cross-sectional study conducted to evaluate 23,873 African and 190,644 United States interventional trials registered on ClinicalTrials.gov through April 2026. With 4,366 interventional trials in the U.S., only 615 such trials were conducted in Africa, pointing inadequacy of investments in such areas.

In Africa, the continent's research centres are highly concentrated in a handful of powerful hands, resulting in a high Gini index of 0.711. Egypt and South Africa are responsible for conducting most of the research; With high-risk areas such as parts of West and Central Africa suffering from a dearth of attention. Despite registering 17.1 times increase in trials in last twenty years, there is global imbalance.

Therefore, there is need for global health agencies to bridge this disparity to ensure risk populations benefit from medical advancements

### 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/hiv-saturation-index.html>

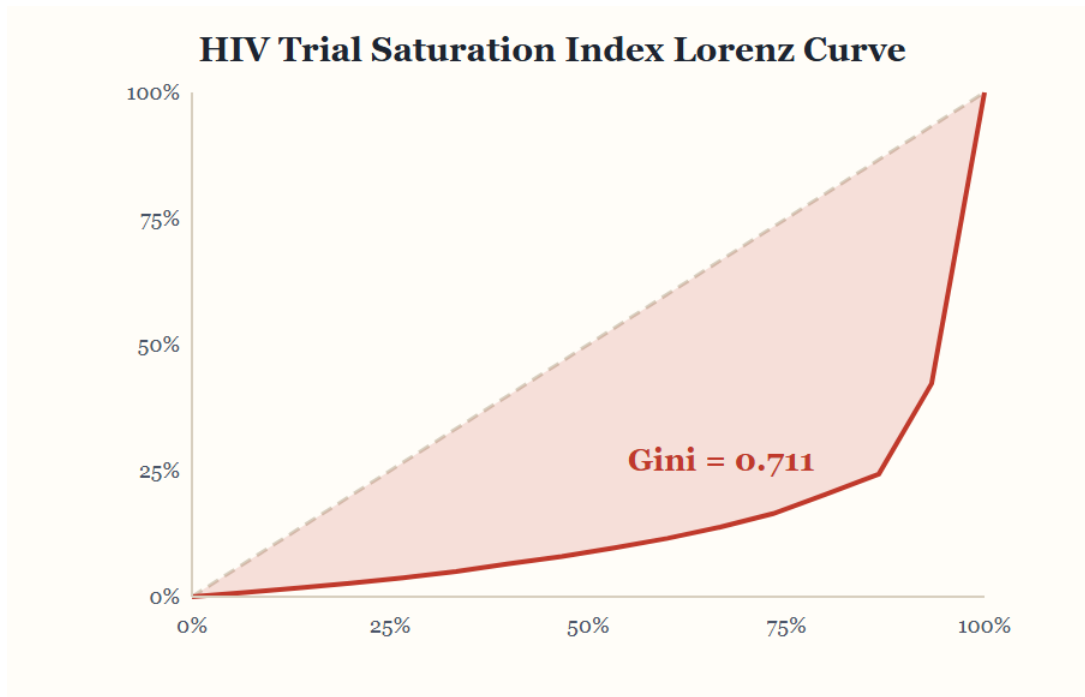


Figure 1. HIV Trial Saturation Index Lorenz Curve Rendered directly from the article's live interactive dashboard.

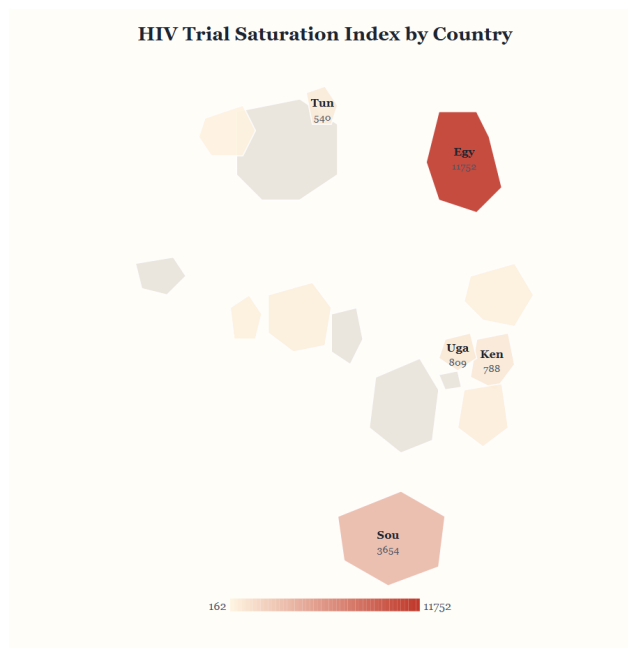


Figure 2. HIV Trial Saturation Index by Country Rendered directly from the article's live interactive dashboard.

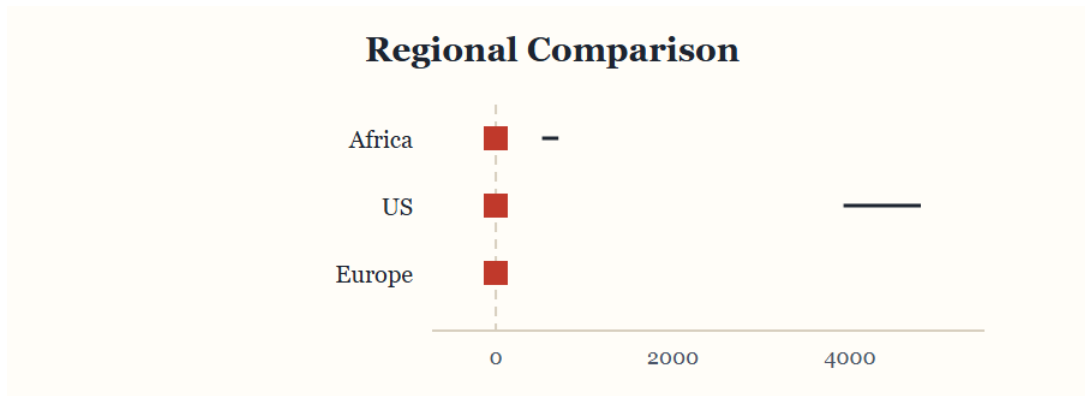


Figure 3. Regional Comparison Rendered directly from the article's live interactive dashboard.

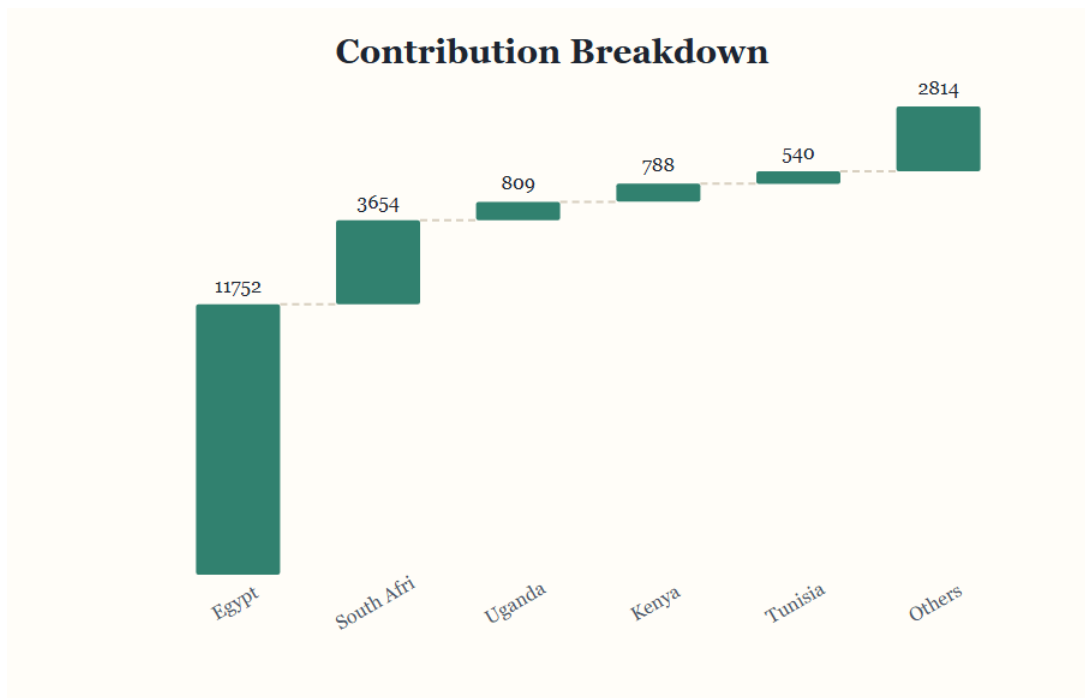


Figure 4. Contribution Breakdown Rendered directly from the article's live interactive dashboard.

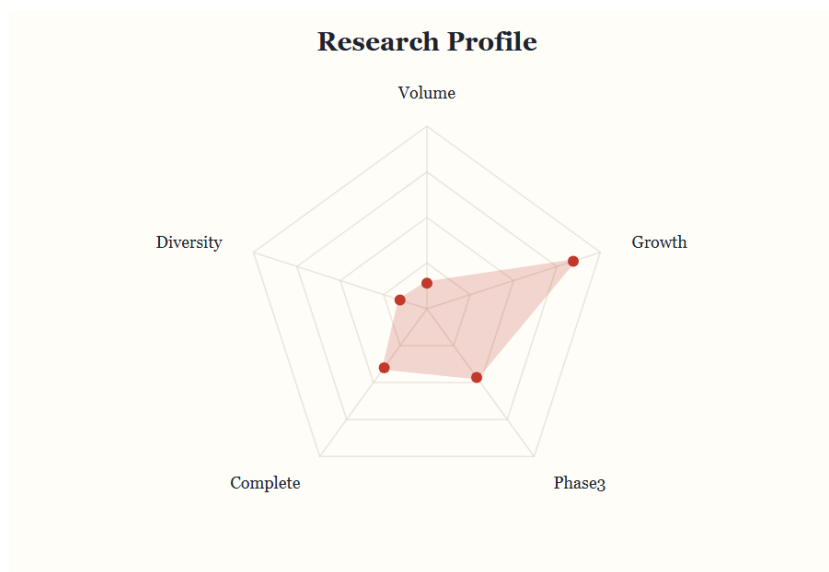
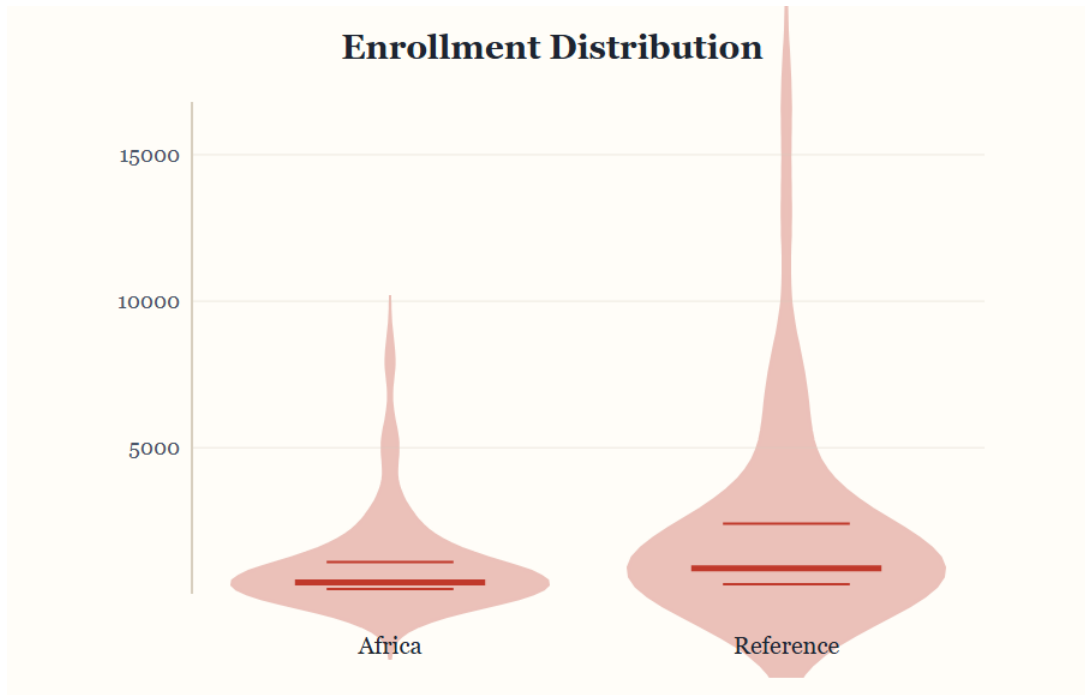


Figure 5. Research Profile Rendered directly from the article's live interactive dashboard.



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



**Figure 7.** Growth 2010-2026 Rendered directly from the article's live interactive dashboard.

**HOW TO CITE**

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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/hiv-saturation-index.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.

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