

Increasing blood supplies while reducing the rate of Transfusion-Transmissible Infections (TTIs) in blood donors: A Kenyan experience

Presenter: Erick Kitangala

Co-authors *C. Rombo, R. Githiomi¹, F. Kathuku¹, A. Mbui¹, G. Ombui⁴, P. Maturi², M. Odour¹, G. Revathi³*



**Kenya National Blood
Transfusion Service**

It's safe and it saves.

Presentation Outline

- Introduction
- Methodology
- Results
- Discussion
- Conclusion

Introduction

- KNBTS is a division in the Ministry of Health
- Established in 2000
- Mandate; supply of safe and sufficient blood and blood products
- Country need of blood is approximately 400,000 (*WHO*)

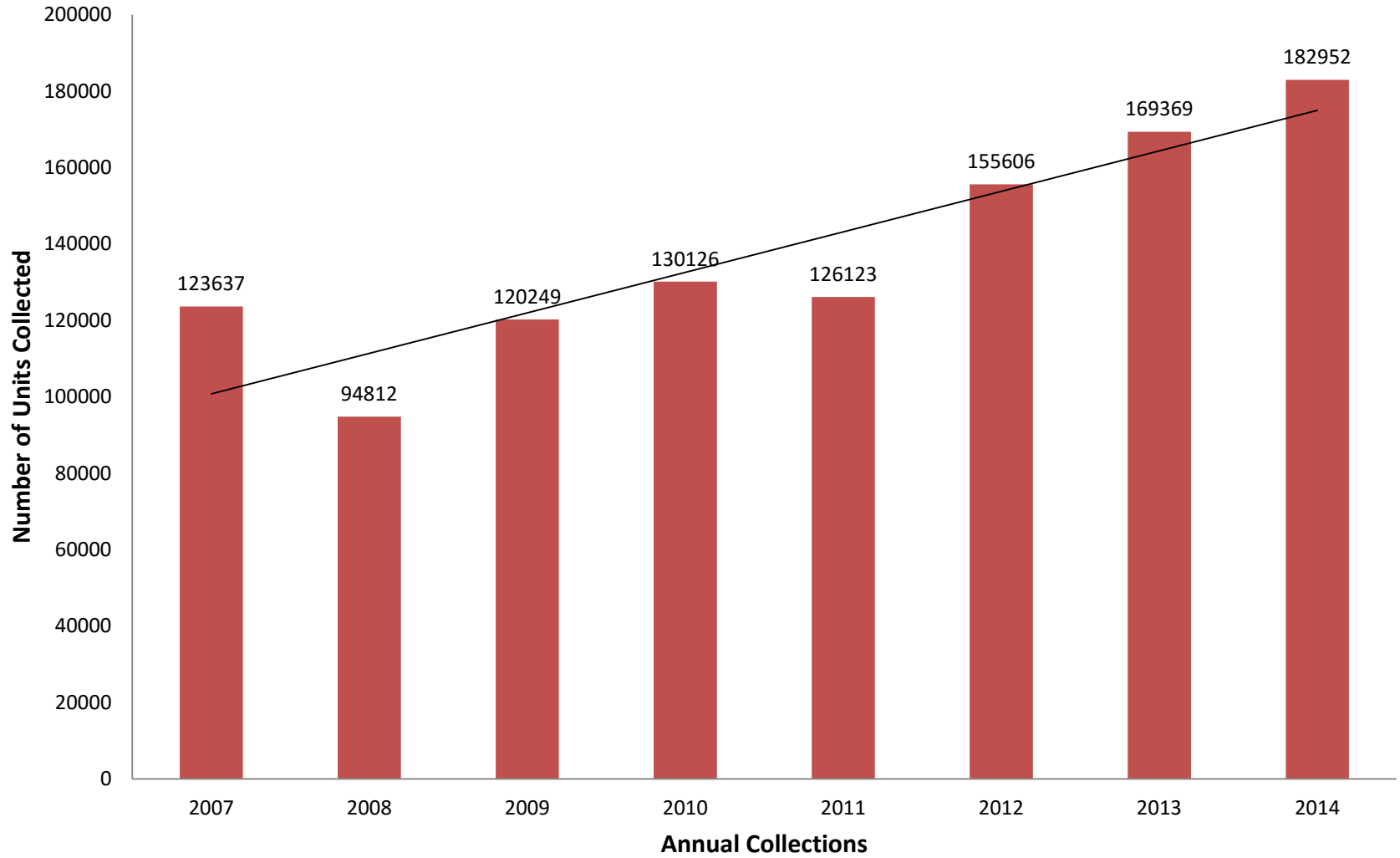
Methodology

- A retrospective data analysis was done
- Collection and TTI screening records were reviewed and analysed
- Data was then analysed to determine the trends in blood collections and the 4 mandatory disease markers screened

Results- Blood collection

- The findings revealed that there was a systematic increase in blood collection from 123,637 units in 2007 to 182,952 units in 2014

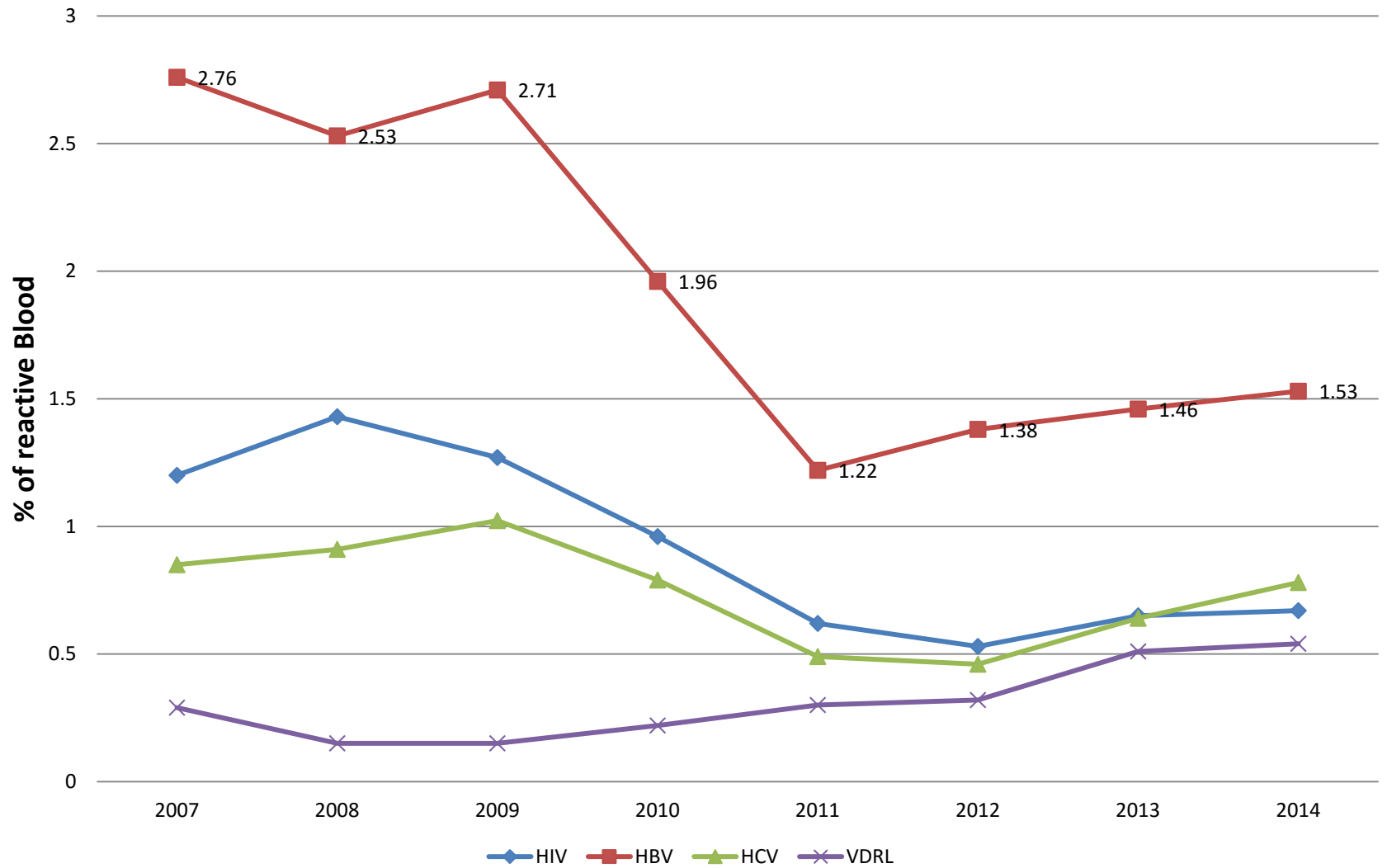
Blood Collection Trend



Results - TTI trend

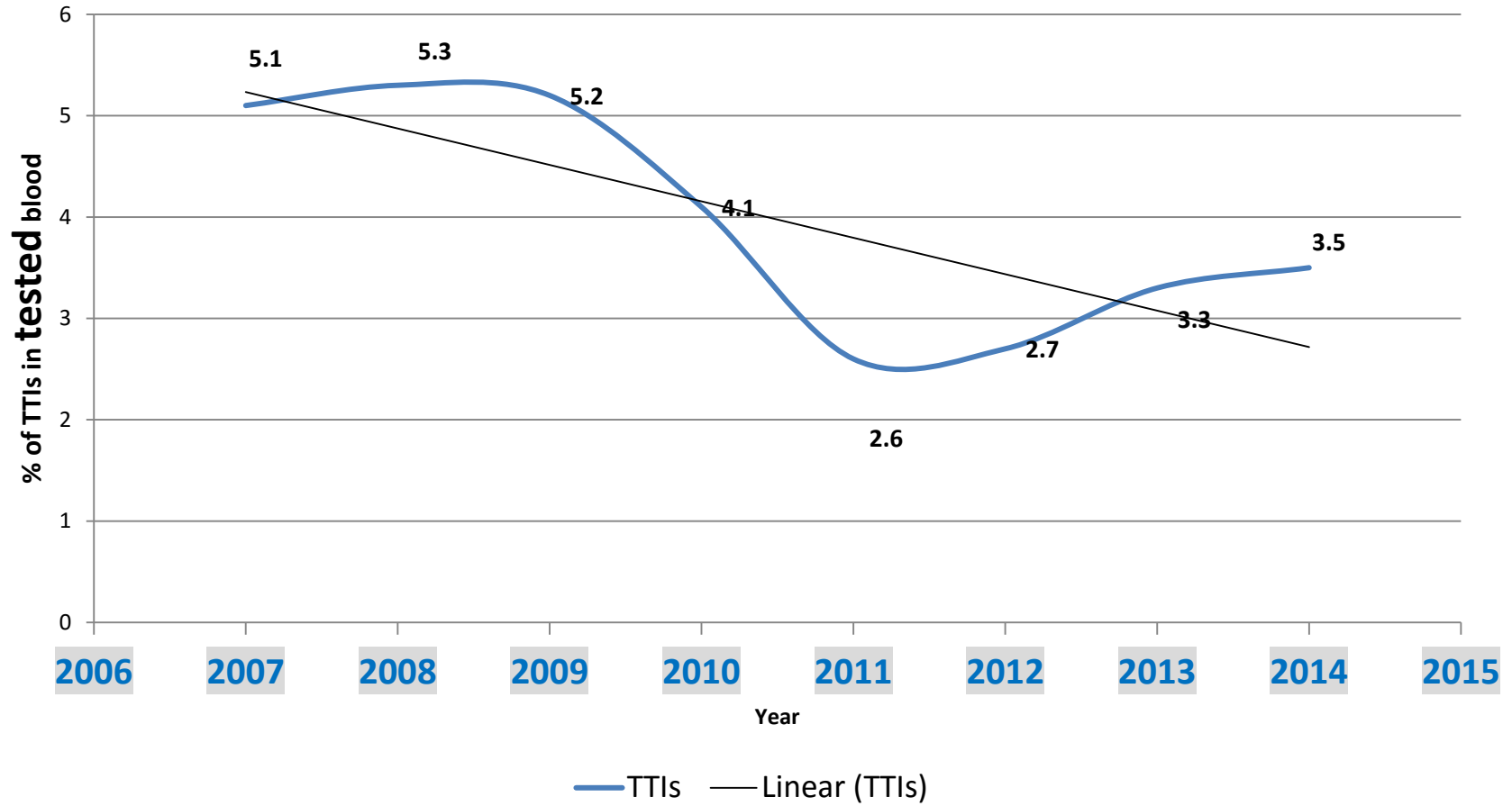
- The findings revealed that there was a systematic decrease in TTI amongst blood donors from 5.1 in 2007 to 3.5 in 2014

TTI in blood Tested



Combined Trends

TTIs Trends over 10 Years



Discussion

- Strong donor recruitment- KNBTS and partners
- Diversification of donor pools (donor clubs, adult population)
- Revised donor questionnaire (donor selection)
- Increased human resource
- More collection sites (from 9 to 20)
- Blood donors Notification program

Conclusion

- Multi sectoral involvement is key in increasing blood availability in the country
- Government commitment, policy formulation and coordination
- Blood donor notification program
- Increased number of repeat donors
- An adequate and competent work force is key in a sustainable blood service

Recommendation

- A strong human resource base and technical capacity development should be upscale to sustain the blood service in Kenya.
- Government and private sector should collaborate and develop stronger linkages to support blood service

Special Thanks

- Ministry of Health
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- M-Health Kenya
- University of Maryland