

Analysis of the HIV Epidemic in the Highest Burden Countries

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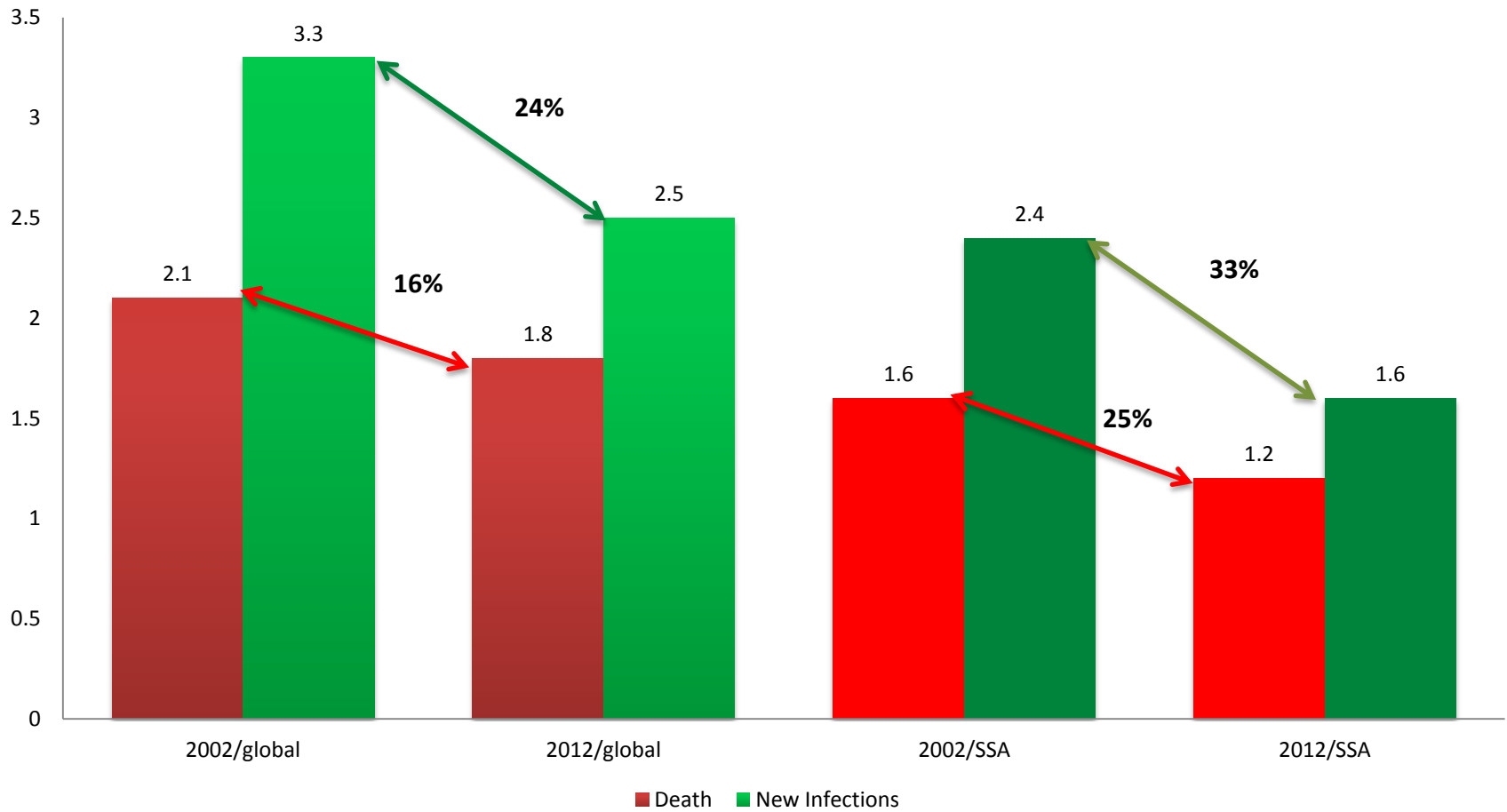
1

State of the Epidemic

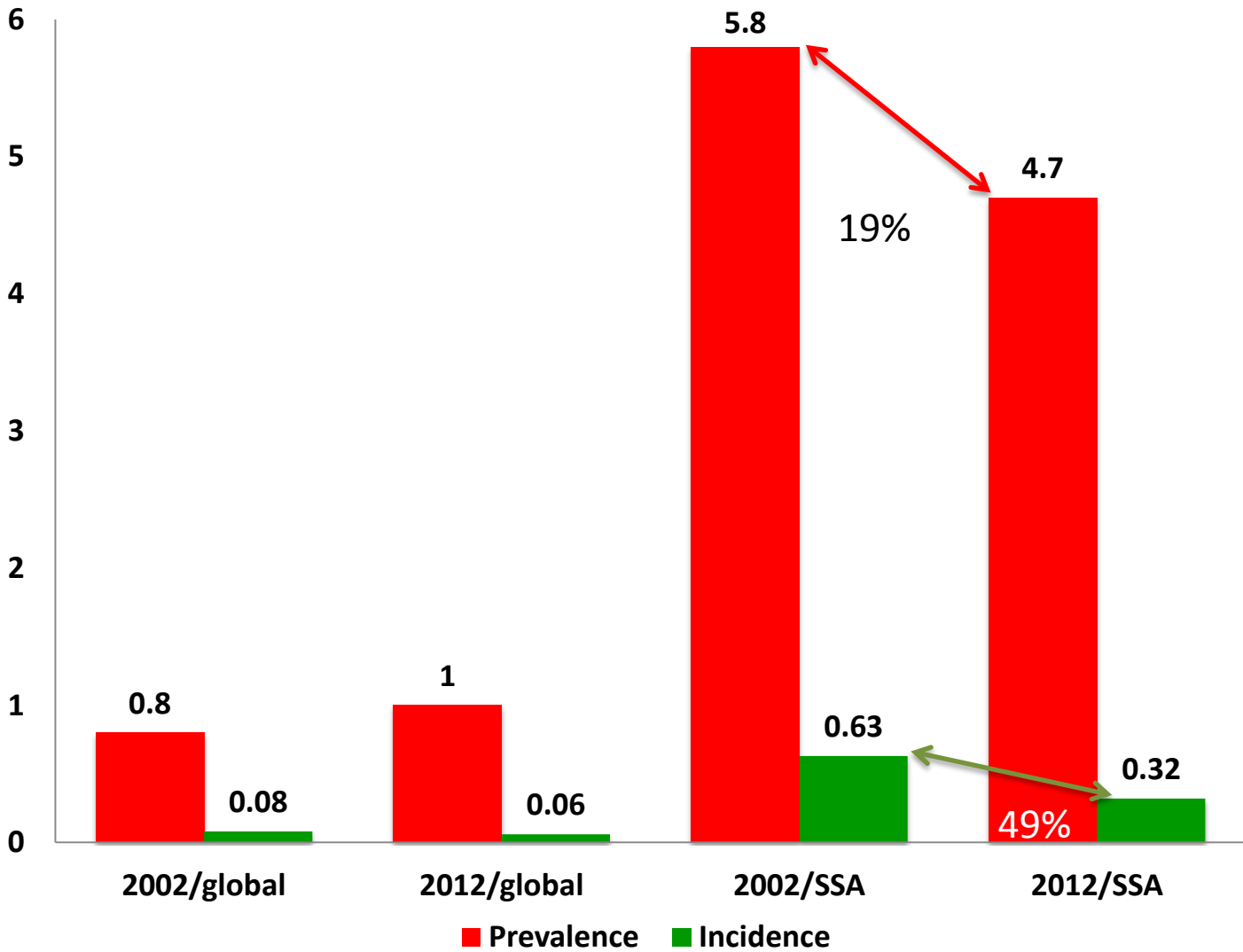
Remembering how far we have come, celebrating success & being guided by the data



Changes in the HIV/AIDS Epidemic Globally and in Sub-Saharan Africa 2002-2012



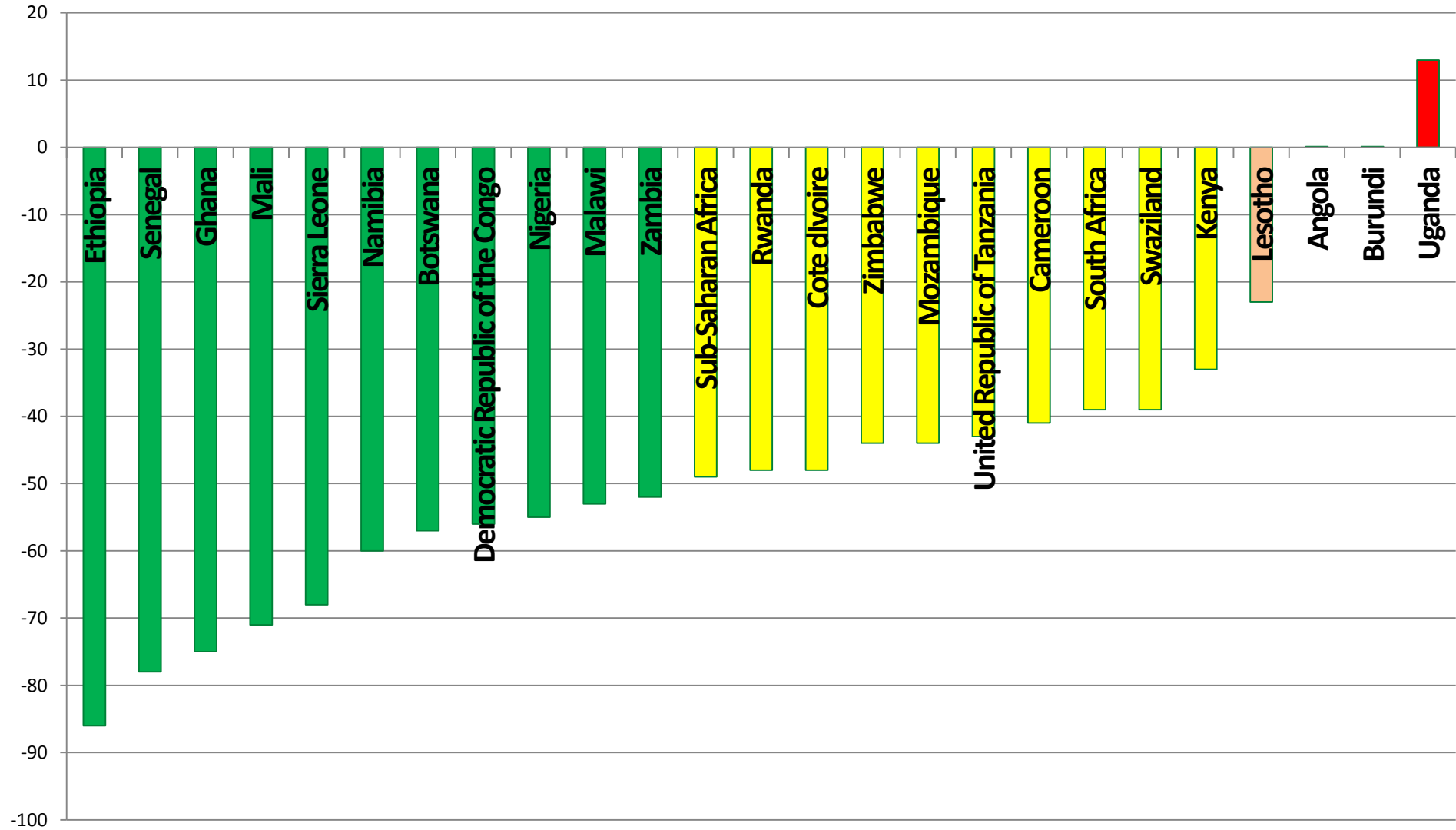
Changes in the HIV/AIDS Epidemic Globally and in Sub-Saharan Africa 2002-2012



Source: UNAIDS Report on the Global AIDS Epidemic – 2013. Accessible at: <http://www.unaids.org/en/dataanalysis/epidemiology/>.

Declines in Modeled Incidence from 2002-2012 in PEPFAR Countries

Incidence Declines



2A

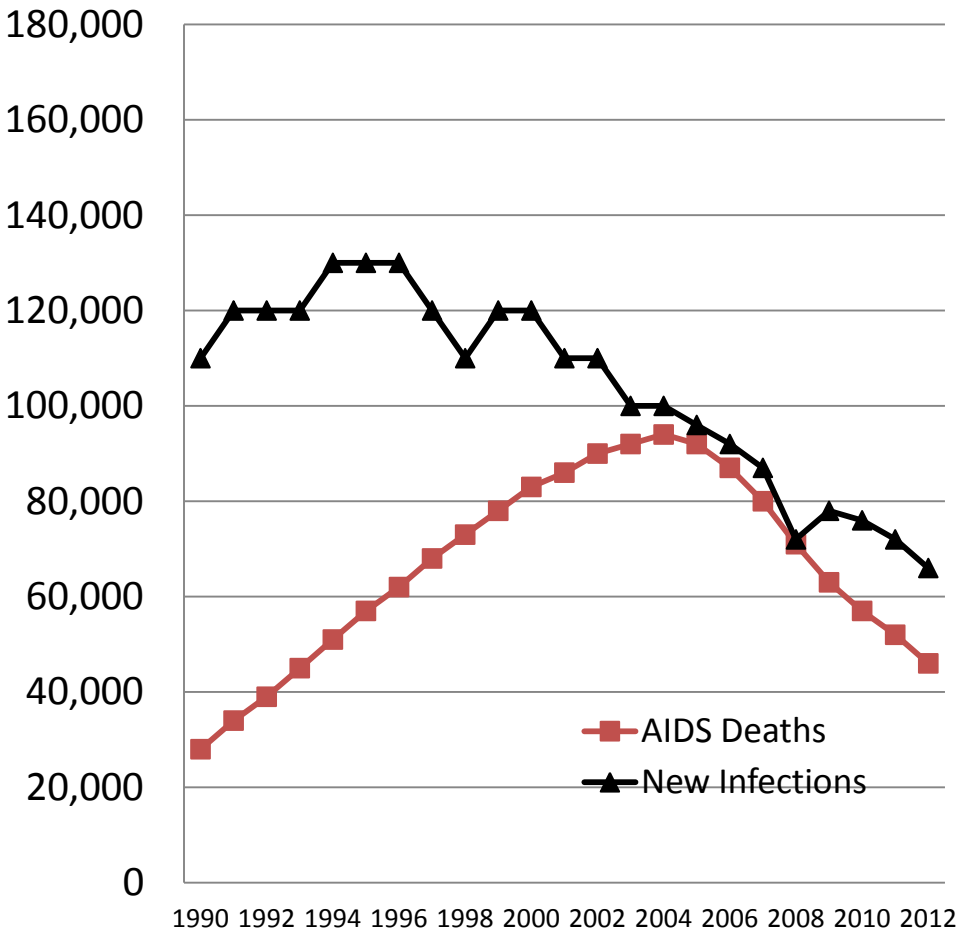
Country Comparisons

Southern Africa : High Prevalence HIV-1 C Epidemics



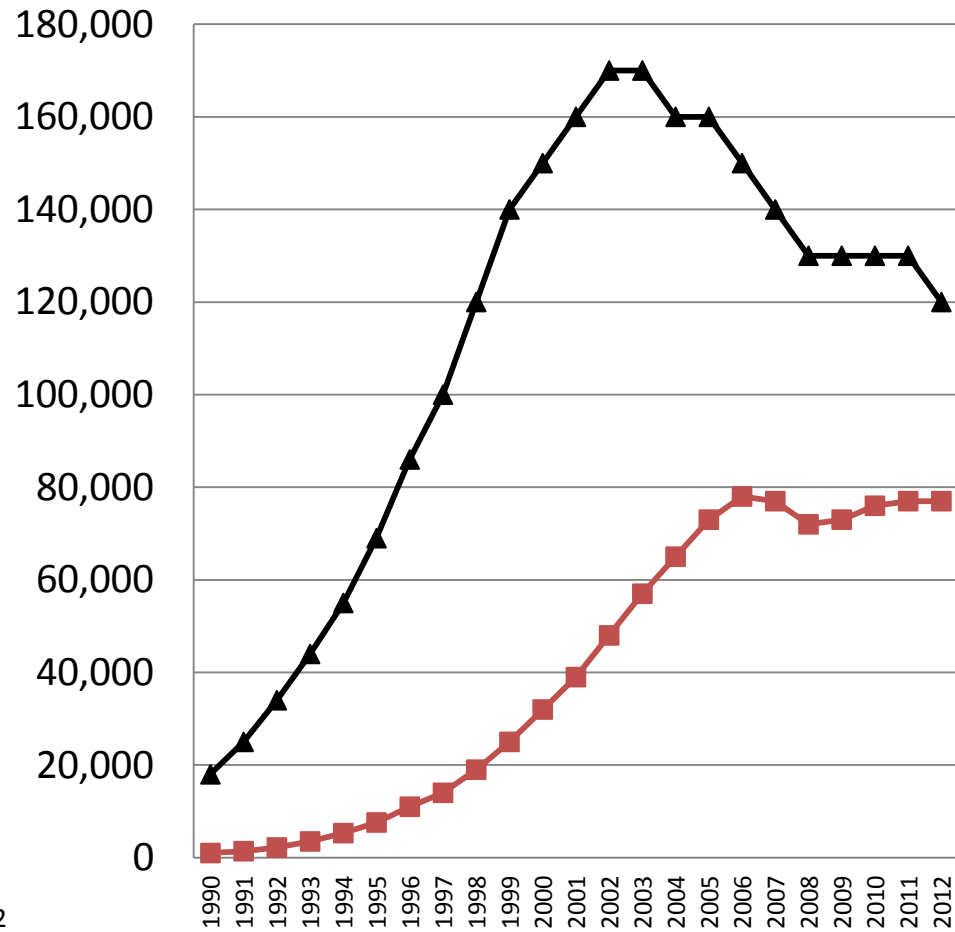
Malawi

Estimated Annual New HIV Infections & AIDS Deaths



Mozambique

Estimated Annual New HIV Infections & AIDS Deaths



2B

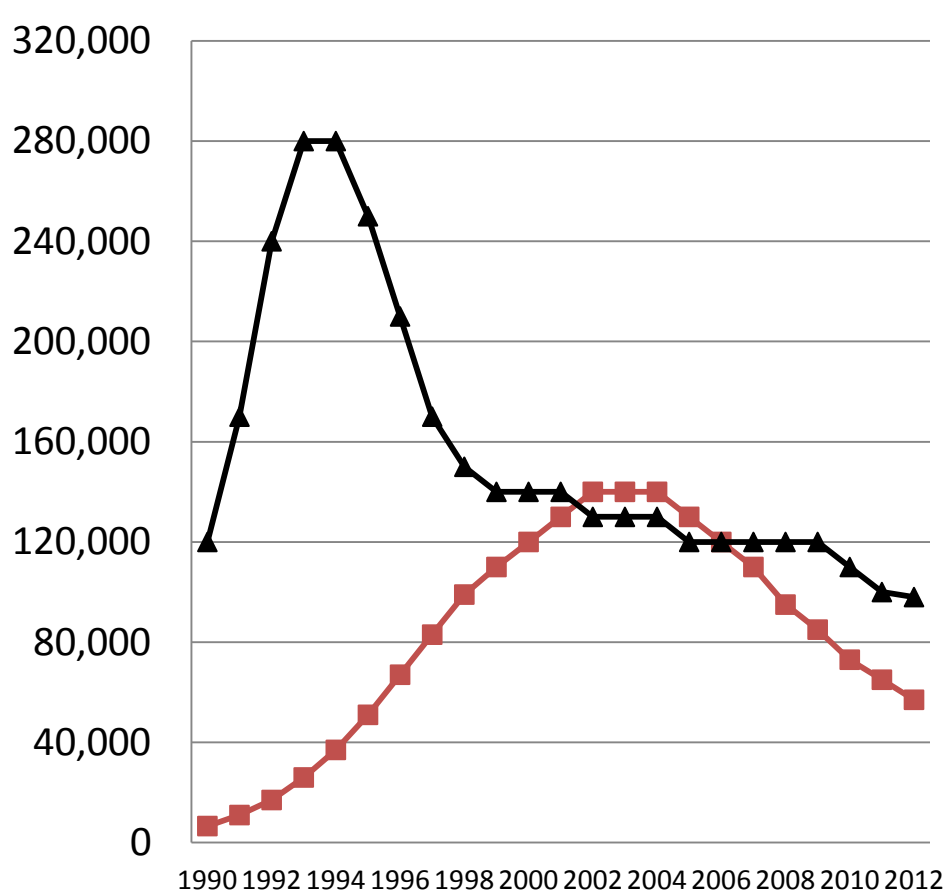
Country Comparisons

East Africa : Moderate Prevalence HIV-1 A,C,D subtypes and Unique Recombinants



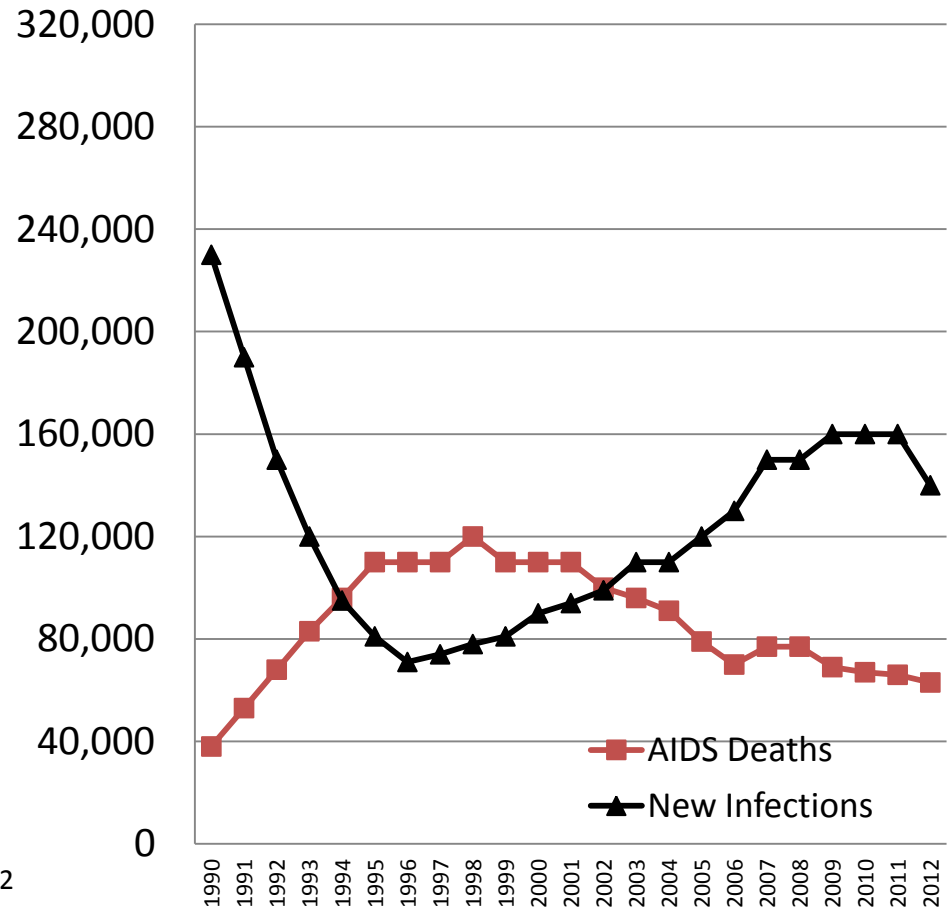
Kenya

Estimated Annual New HIV Infections & AIDS Deaths



Uganda

Estimated Annual New HIV Infections & AIDS Deaths



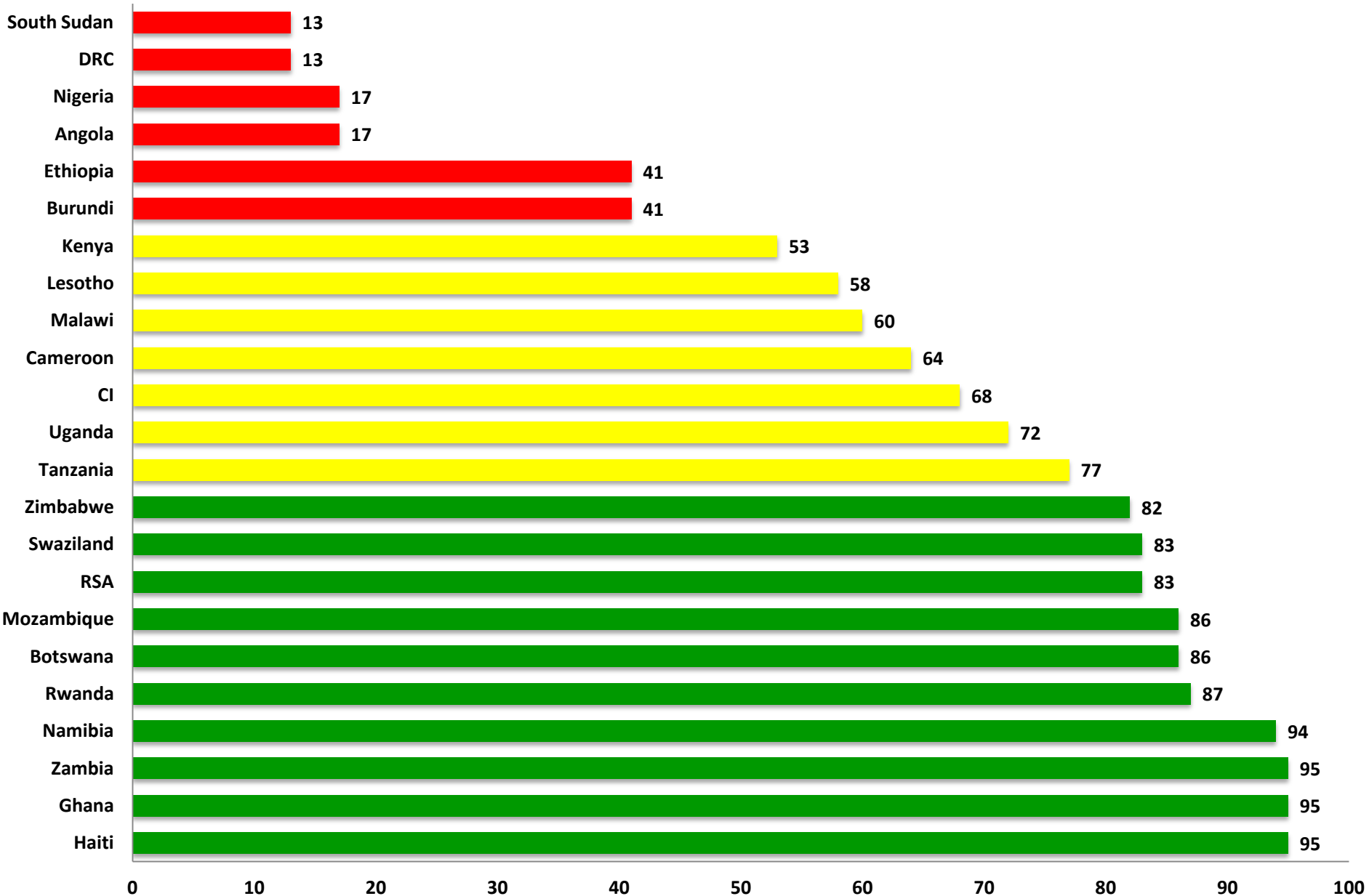
2c

Epidemiologic Impact of Services

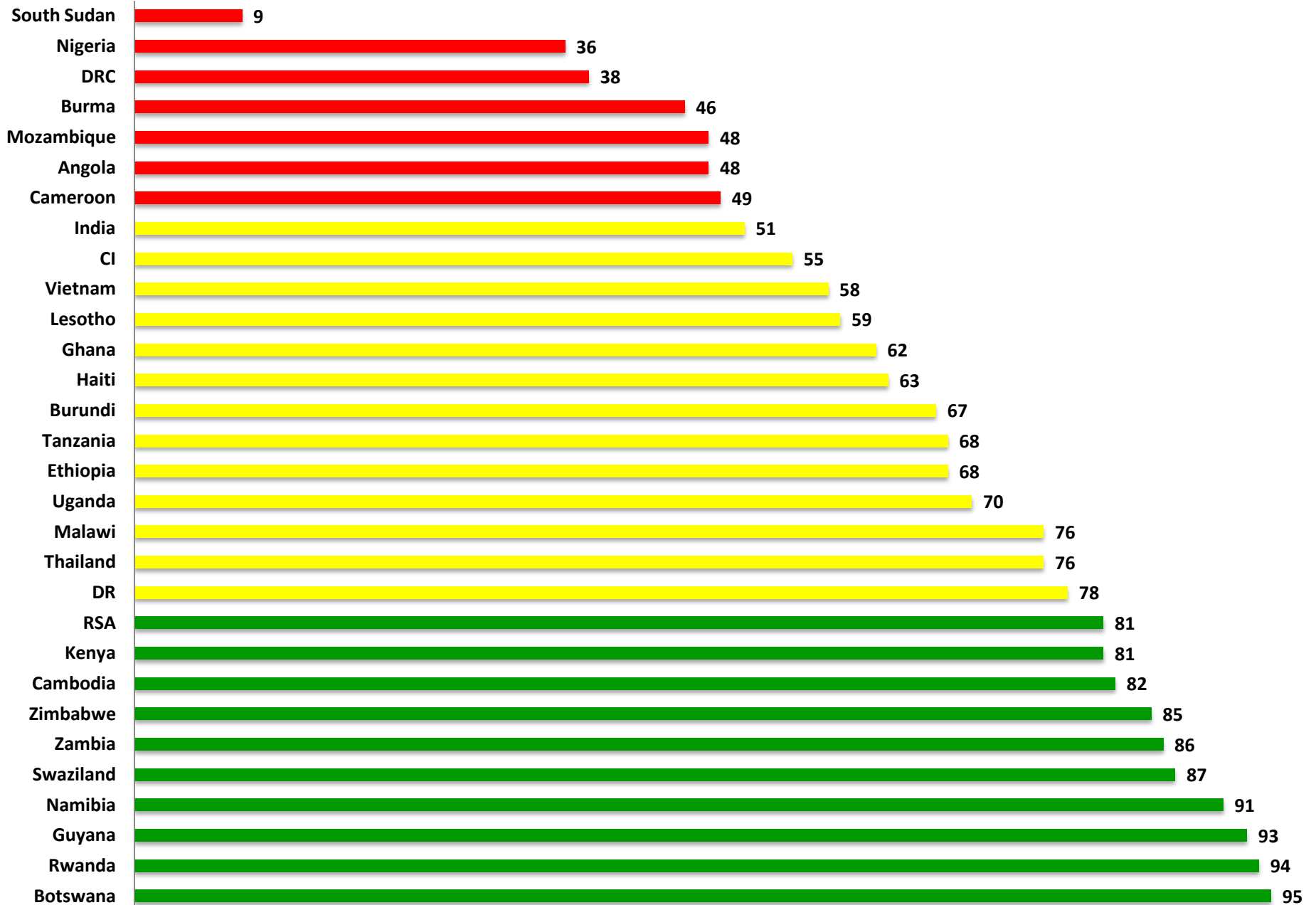
Comparing **service scale-up** in West & West Central, Eastern, & Southern Africa with **HIV incidence**



Coverage of PMTCT 2012



Adult Tx Coverage



3

Implementing for Impact –
Programmatic and Epidemiologic



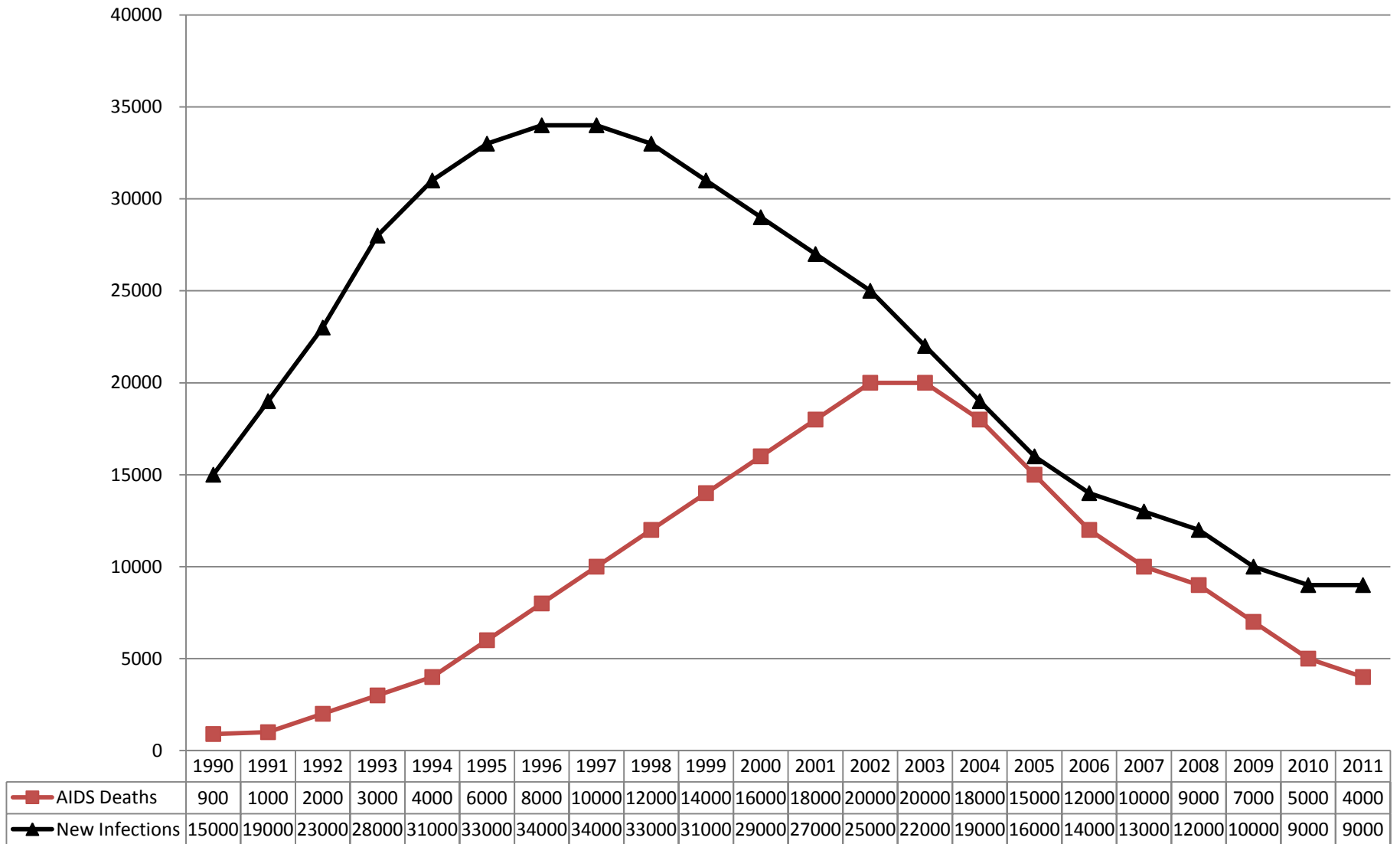
Botswana

HIV Epidemic Data

Declining New Infections & Mortality

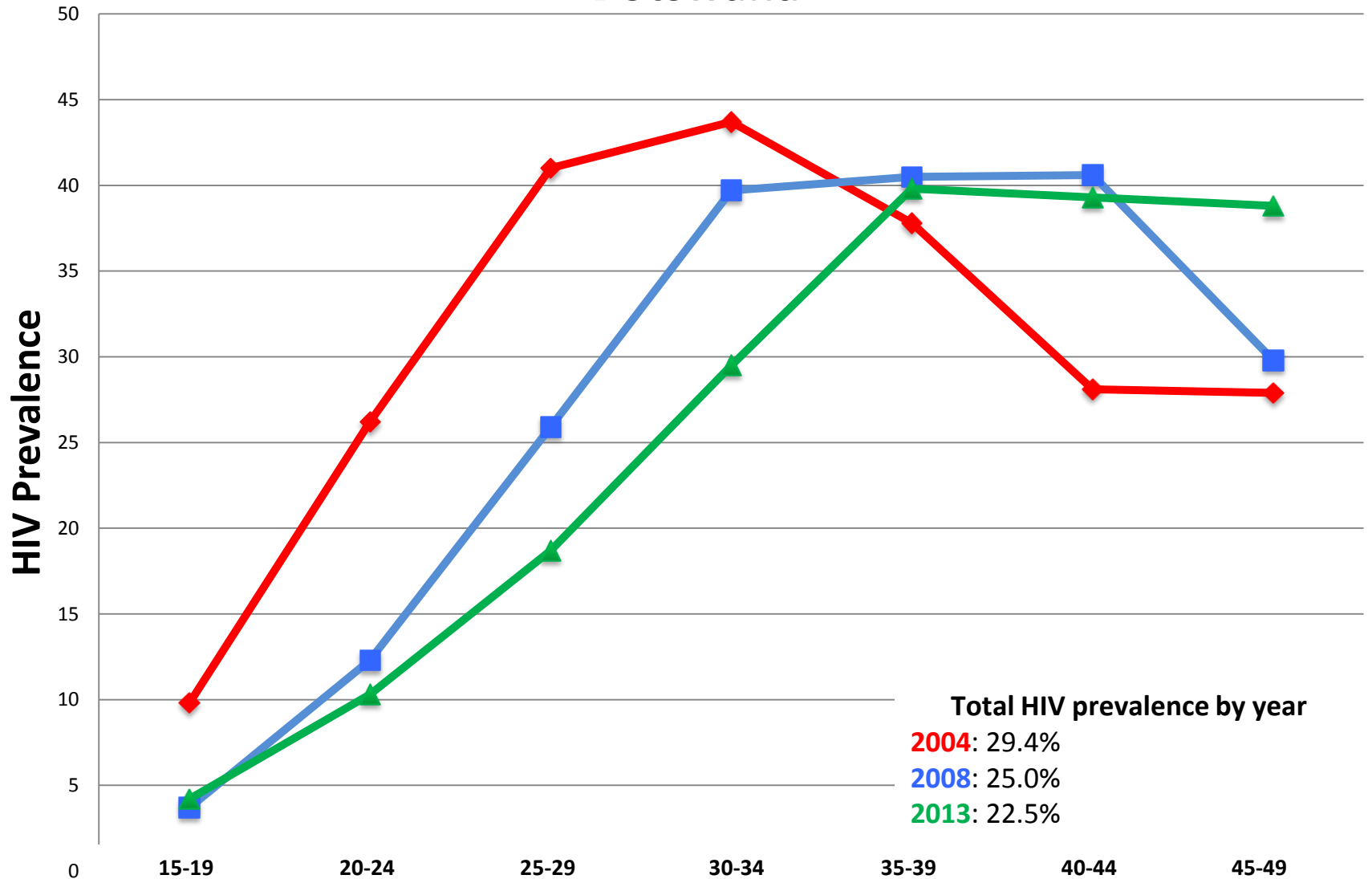
Botswana

Estimated Annual New HIV Infections & AIDS Deaths



Source: UNAIDS Report on the Global AIDS Epidemic – 2012. Accessible at: <http://www.unaids.org/en/dataanalysis/epidemiology/>.

Botswana



◆ 2004	9.8	26.2	41	43.7	37.8	28.1	27.9
■ 2008	3.7	12.3	25.9	39.7	40.5	40.6	29.8
▲ 2013	4.2	10.3	18.7	29.5	39.8	39.3	38.8

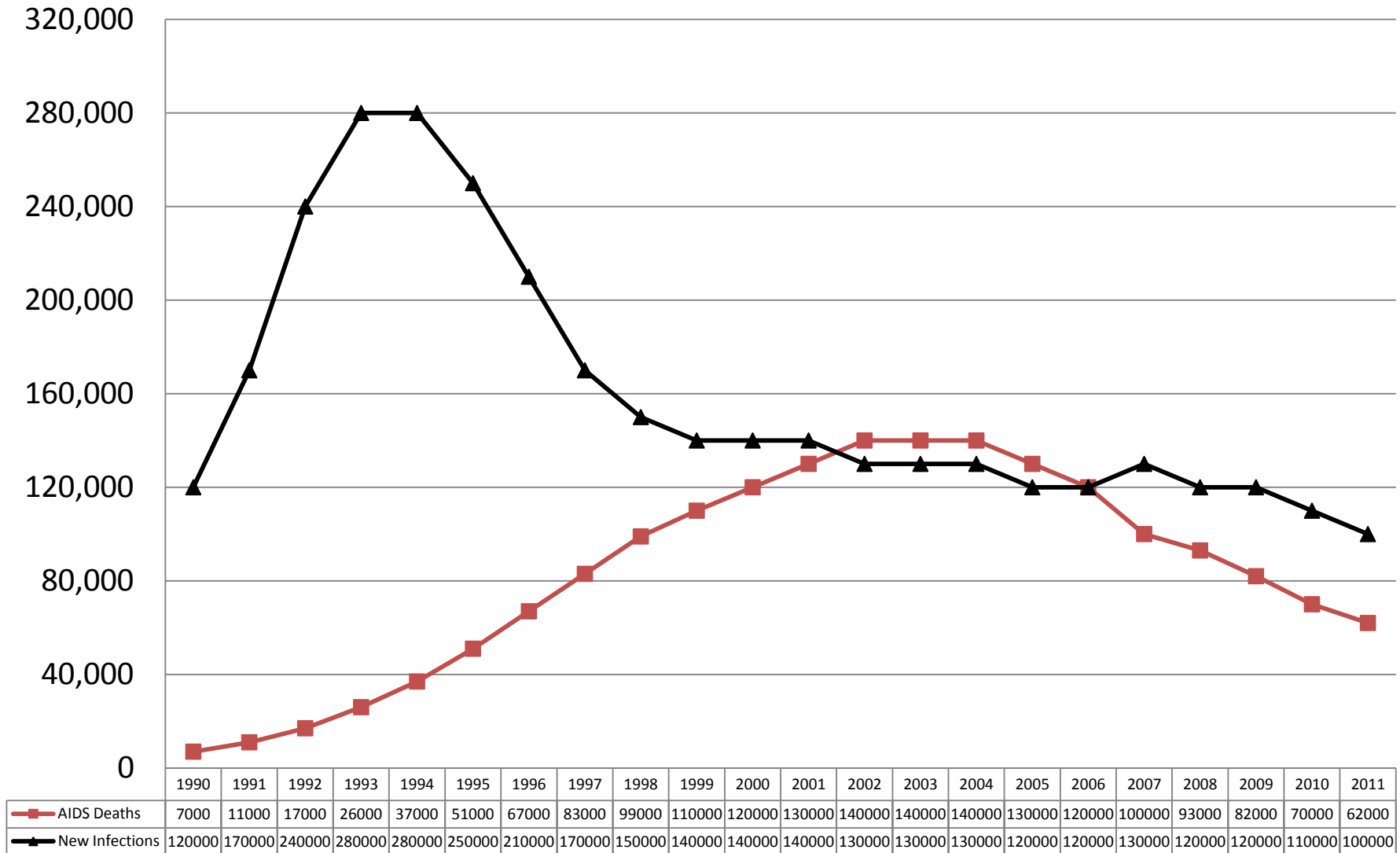
Kenya

HIV Epidemic Data

Declining New Infections and Decreasing Mortality

Kenya

Estimated Annual New HIV Infections & AIDS Deaths

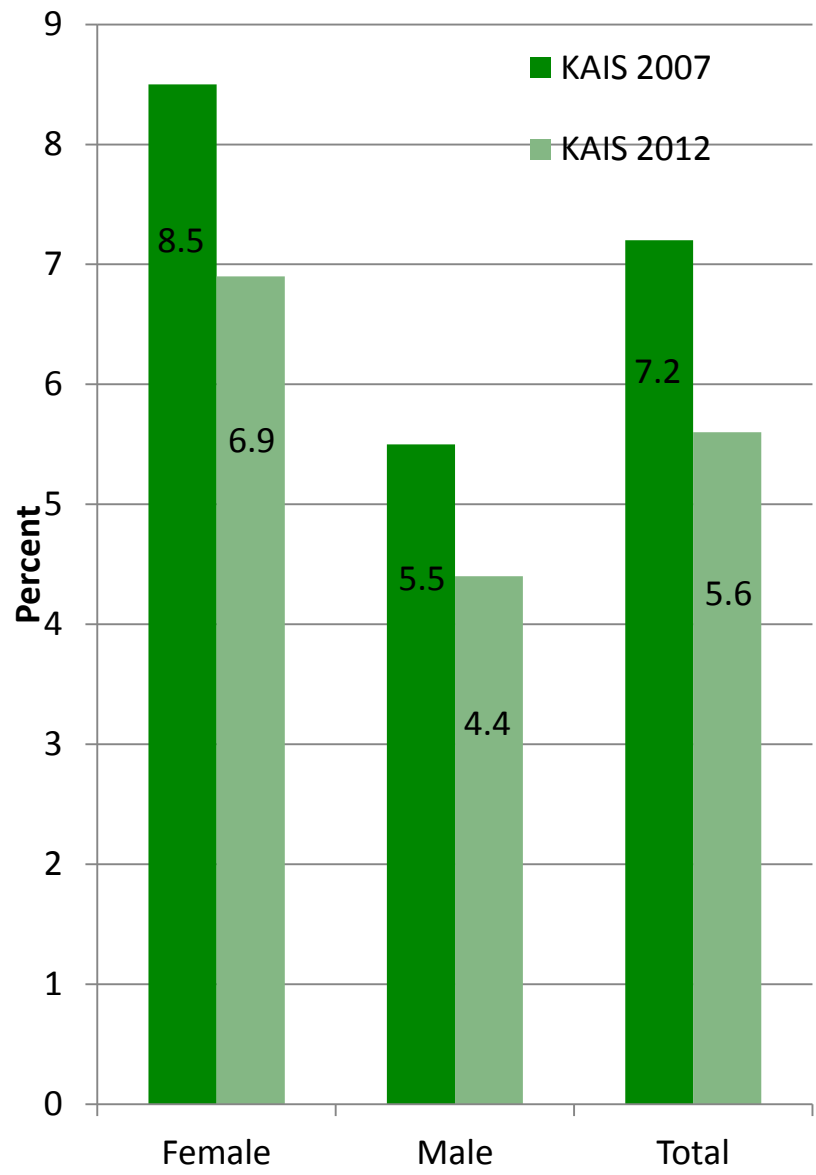


Source: UNAIDS Report on the Global AIDS Epidemic – 2012. Accessible at: <http://www.unaids.org/en/dataanalysis/epidemiology/>.

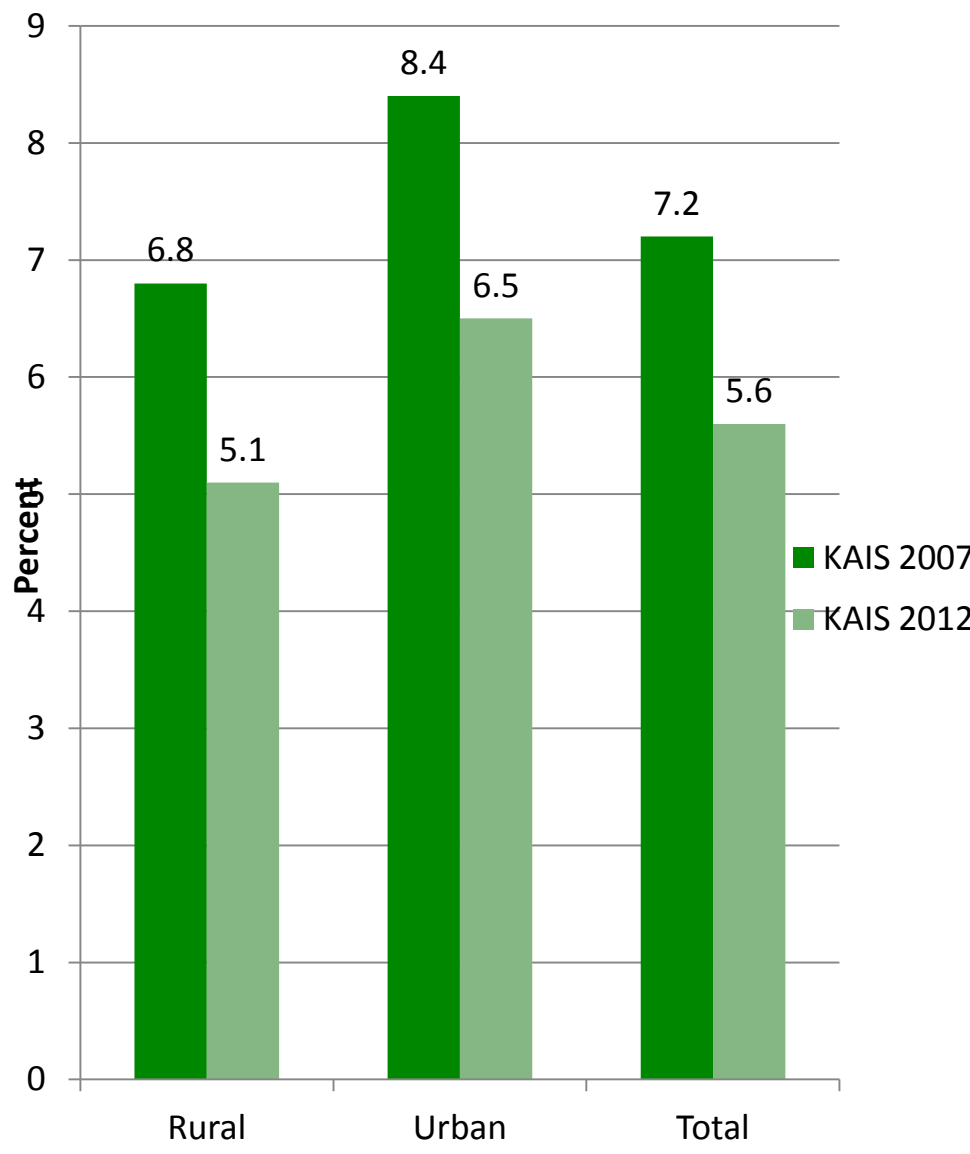
KAIS 2012 Preliminary Report

Key Findings

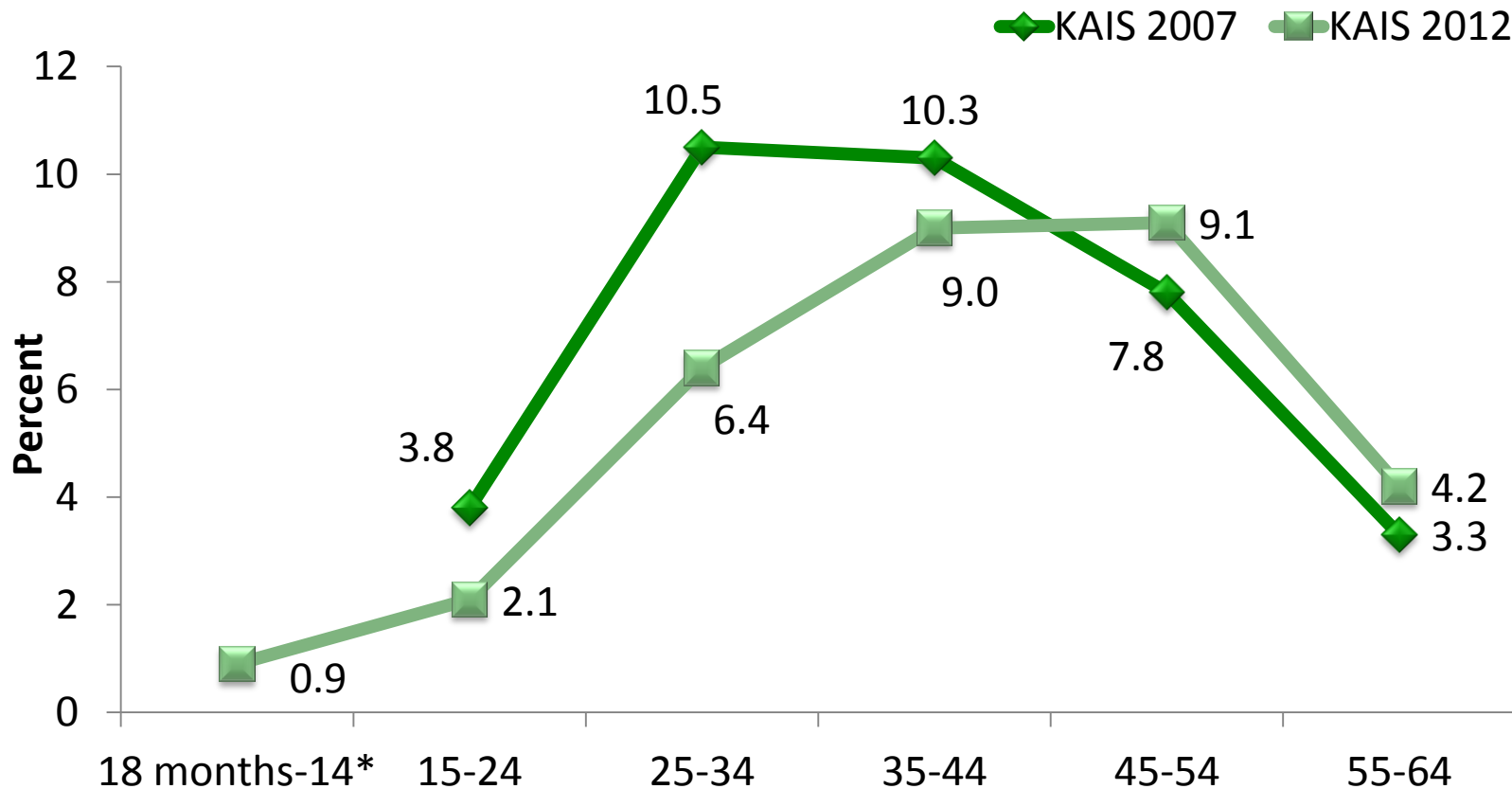
HIV prevalence among females and males aged 15-64 years, KAIS 2007 and 2012



HIV prevalence among persons aged 15-64 years by residence, KAIS 2007 and 2012

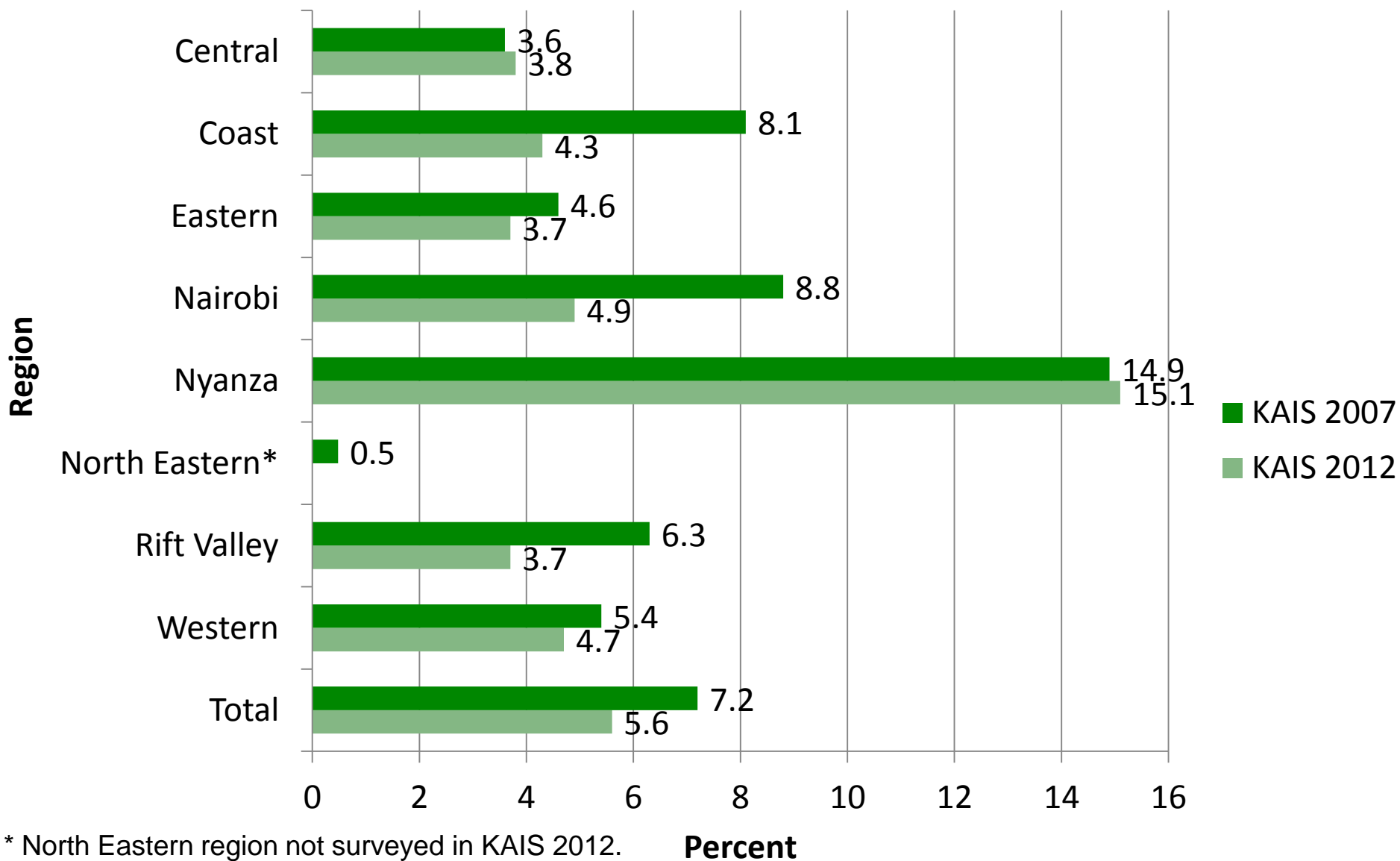


HIV prevalence by age category, KAIS 2007 and 2012

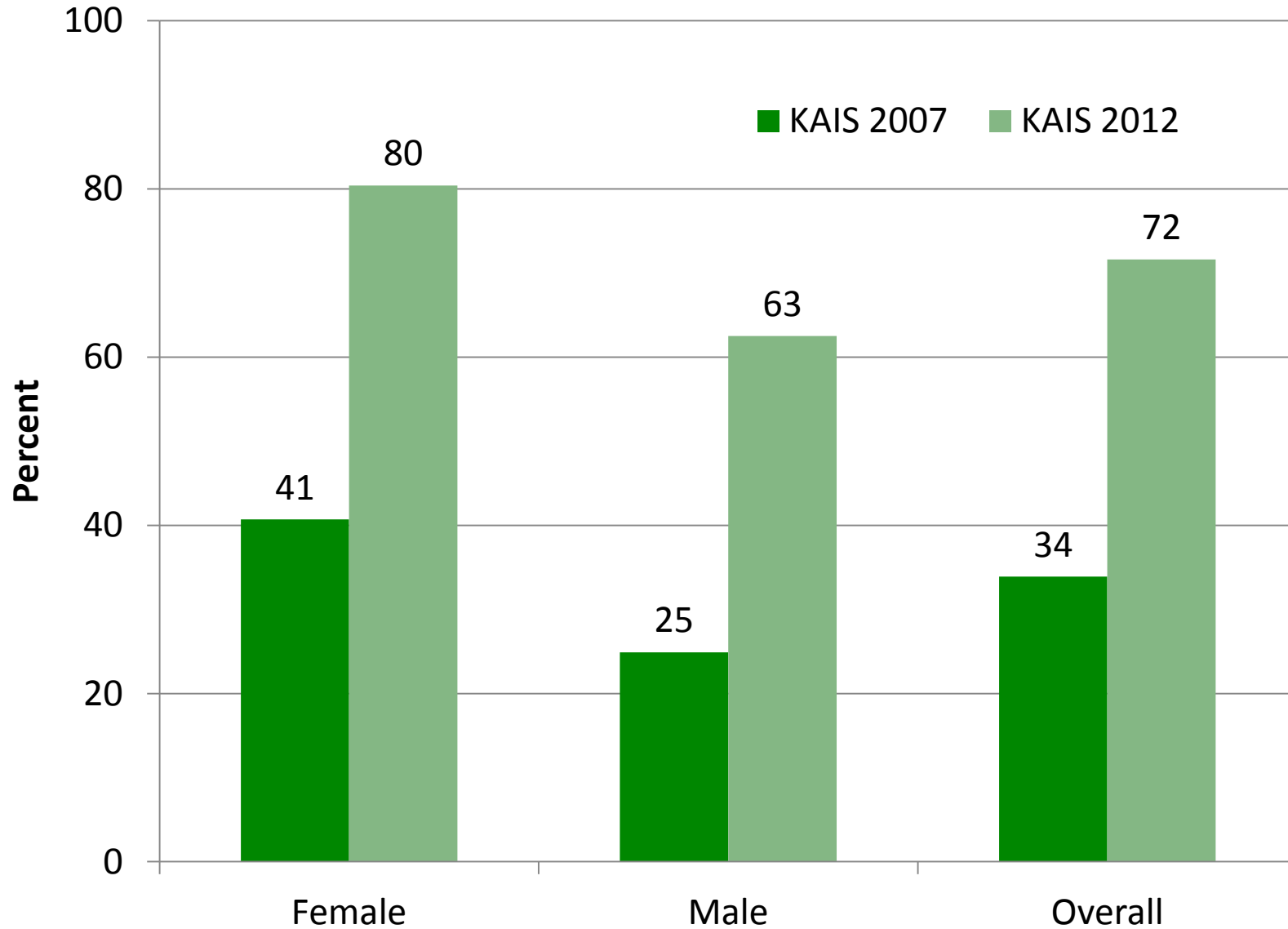


*18 months to 14 year age category not included in KAIS 2007.

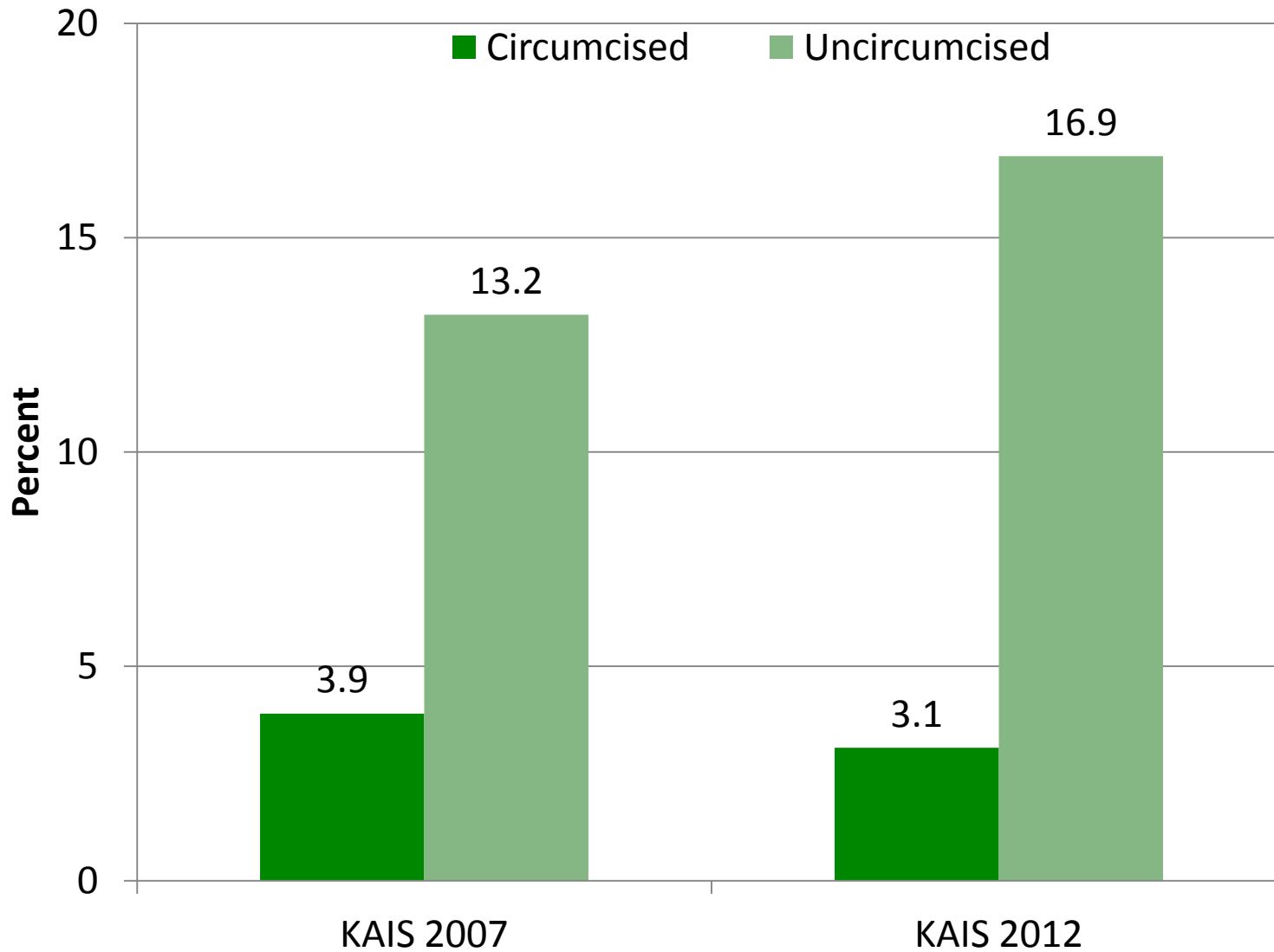
HIV Prevalence among persons aged 15-64 years by region, KAIS 2007 and 2012



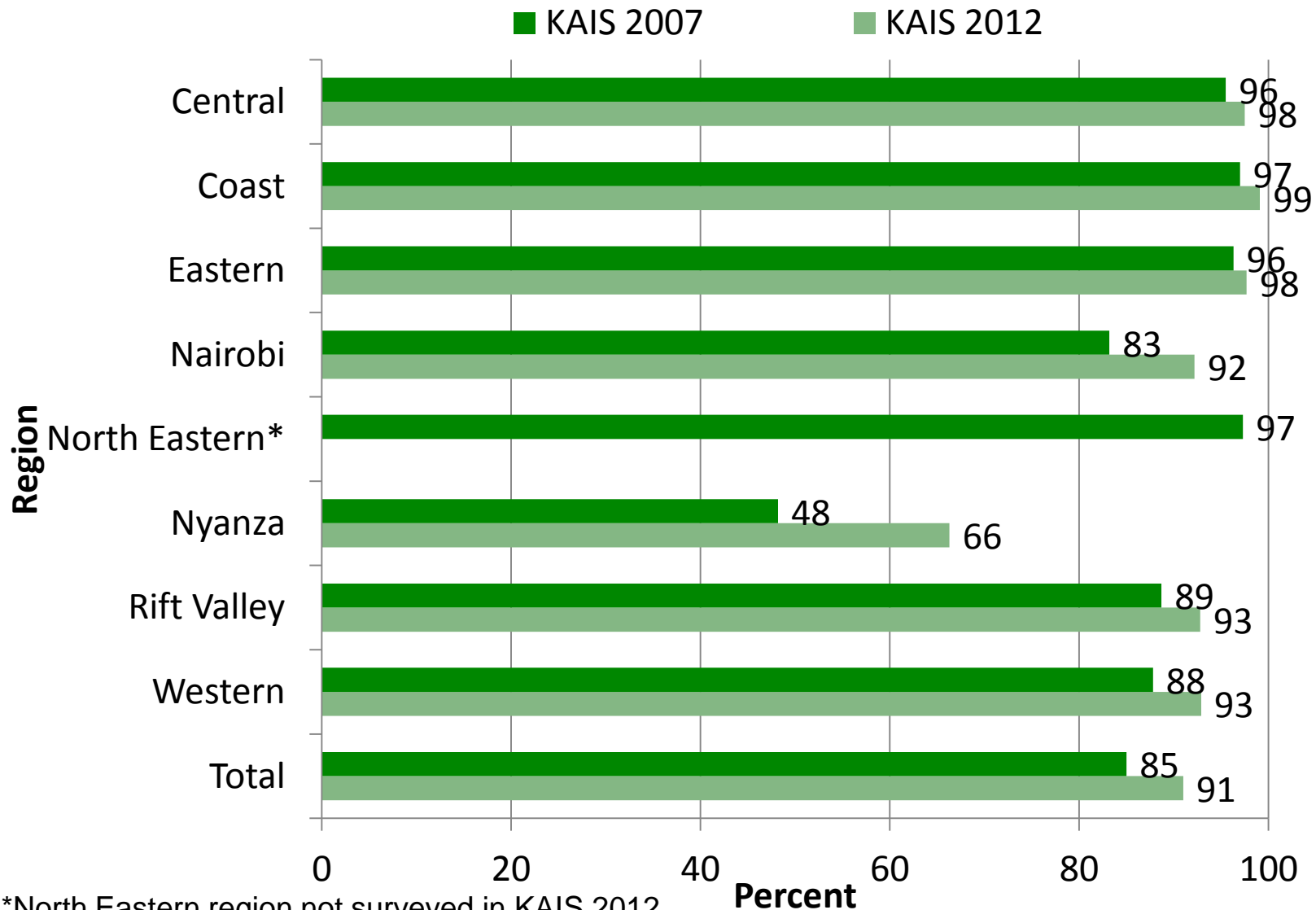
HIV testing among persons aged 15-64 years by sex, KAIS 2007 and 2012



HIV prevalence among men aged 15-64 years by male circumcision status, KAIS 2007 and 2012

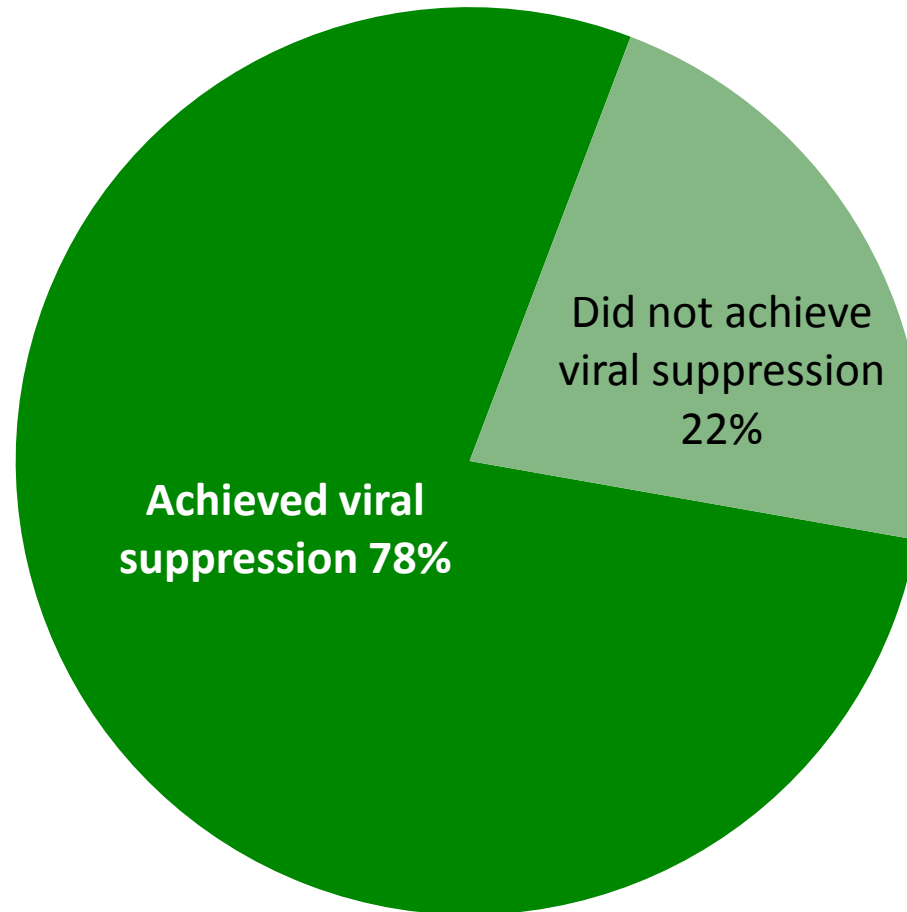


Male circumcision among men aged 15-64 years by region, KAIS 2007 and 2012



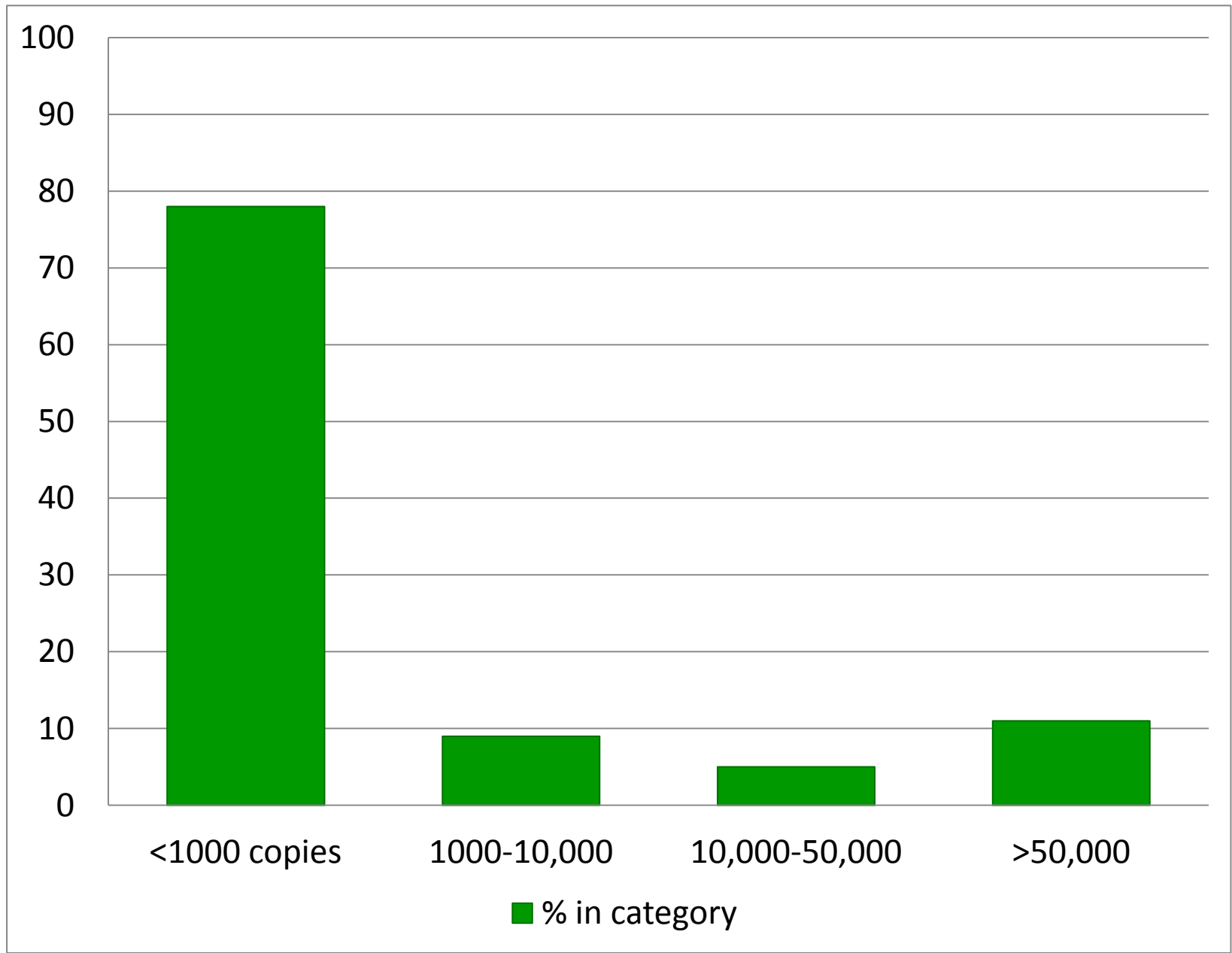
*North Eastern region not surveyed in KAIS 2012.

Viral suppression* among HIV-infected persons aged 15-64 years on ART, KAIS 2012



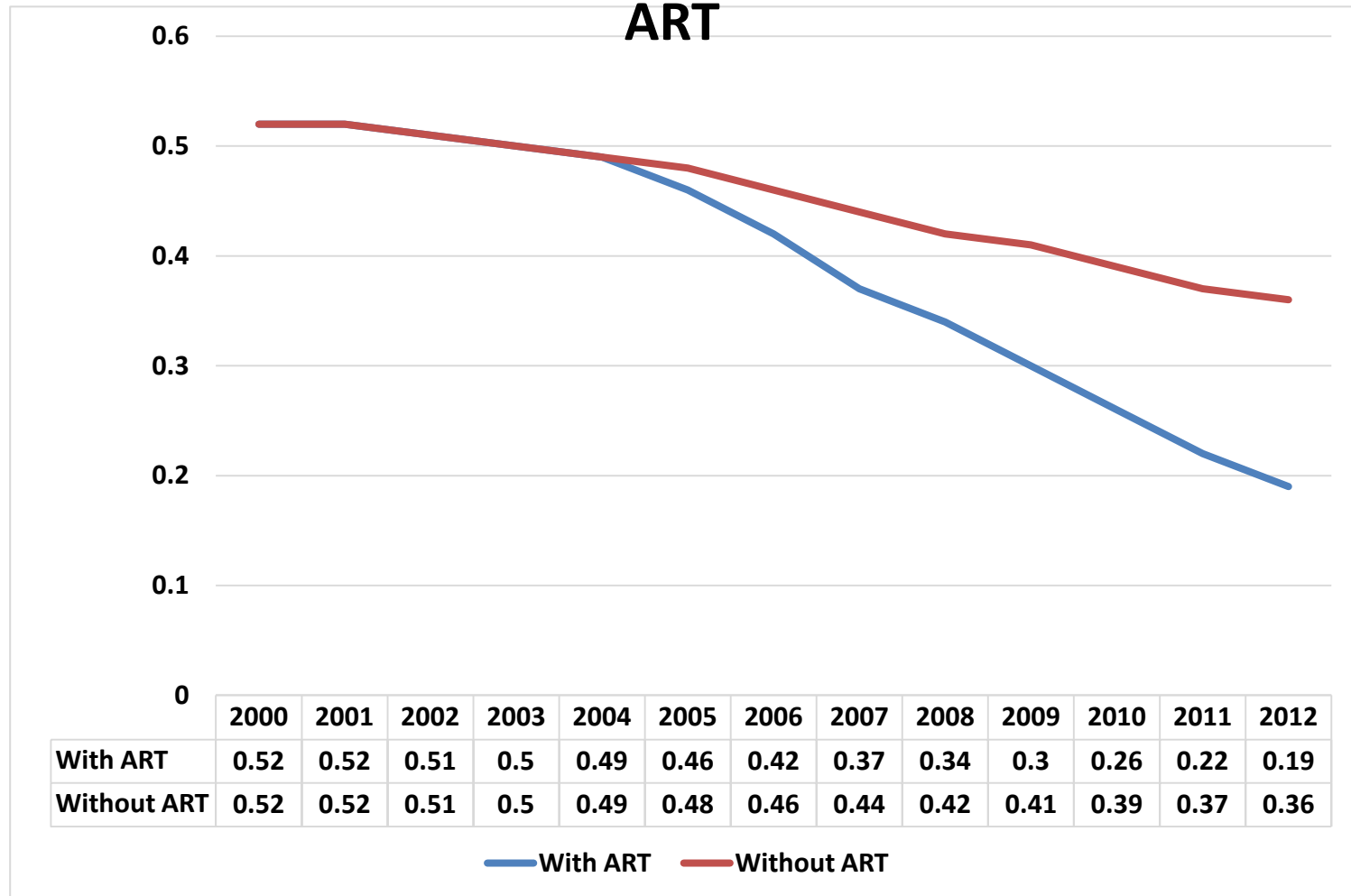
*Viral suppression is defined as HIV RNA concentration <1,000 copies/mL. Of the not suppressed 42% were less than 10K, an additional 24% 10K-50K and 34% were over 50K

Viral Load Profile of Patients on ART



Kenya

Goals model estimate of adult (15-49) incidence with and without ART

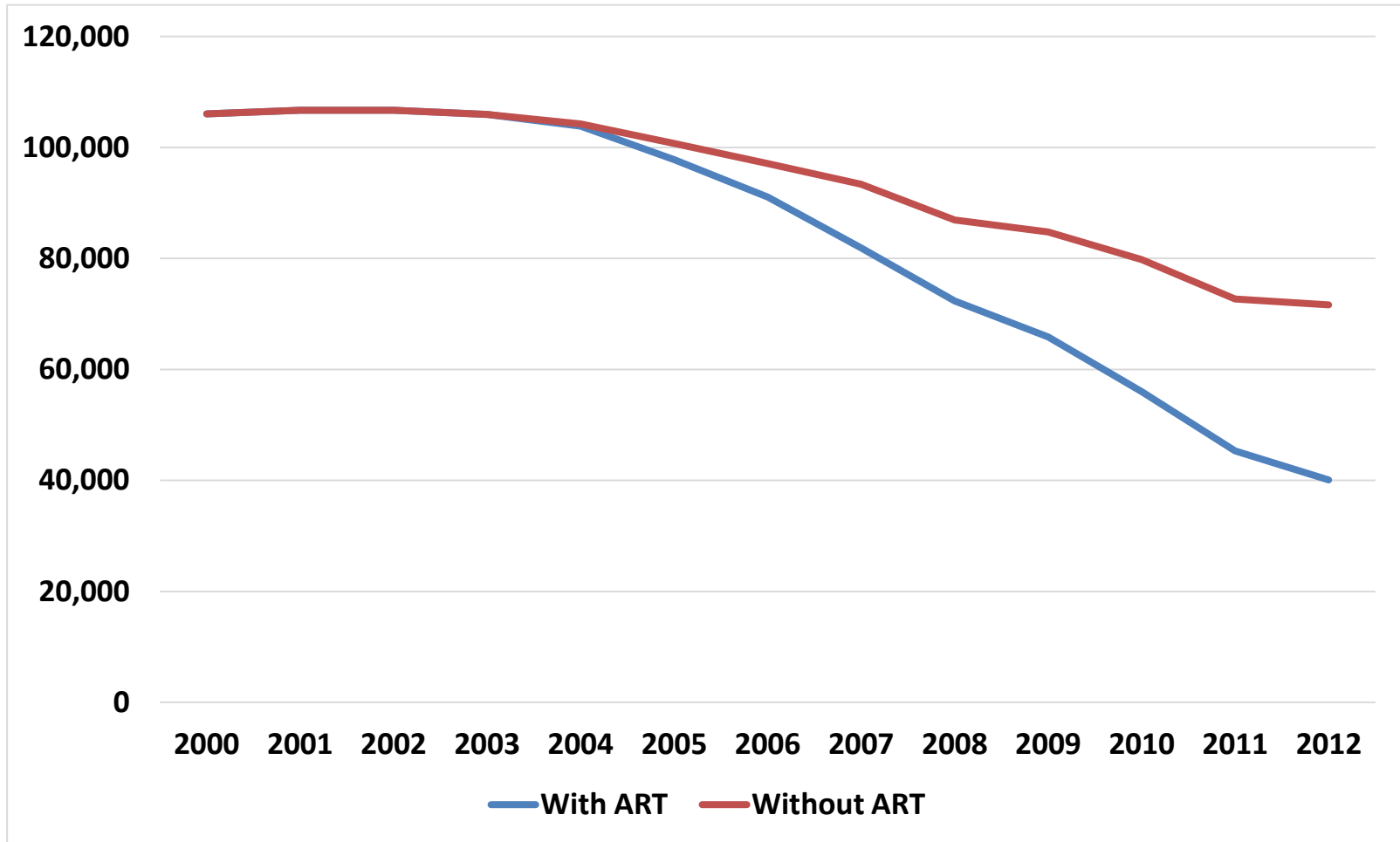


“This suggests that ART has reduced incidence by almost half in 2012 and that about half of the estimated incidence decline since 2004 has been due to the scale up of ART programs.”

Stover et al

Kenya

Number of new HIV infections with and without the ART program



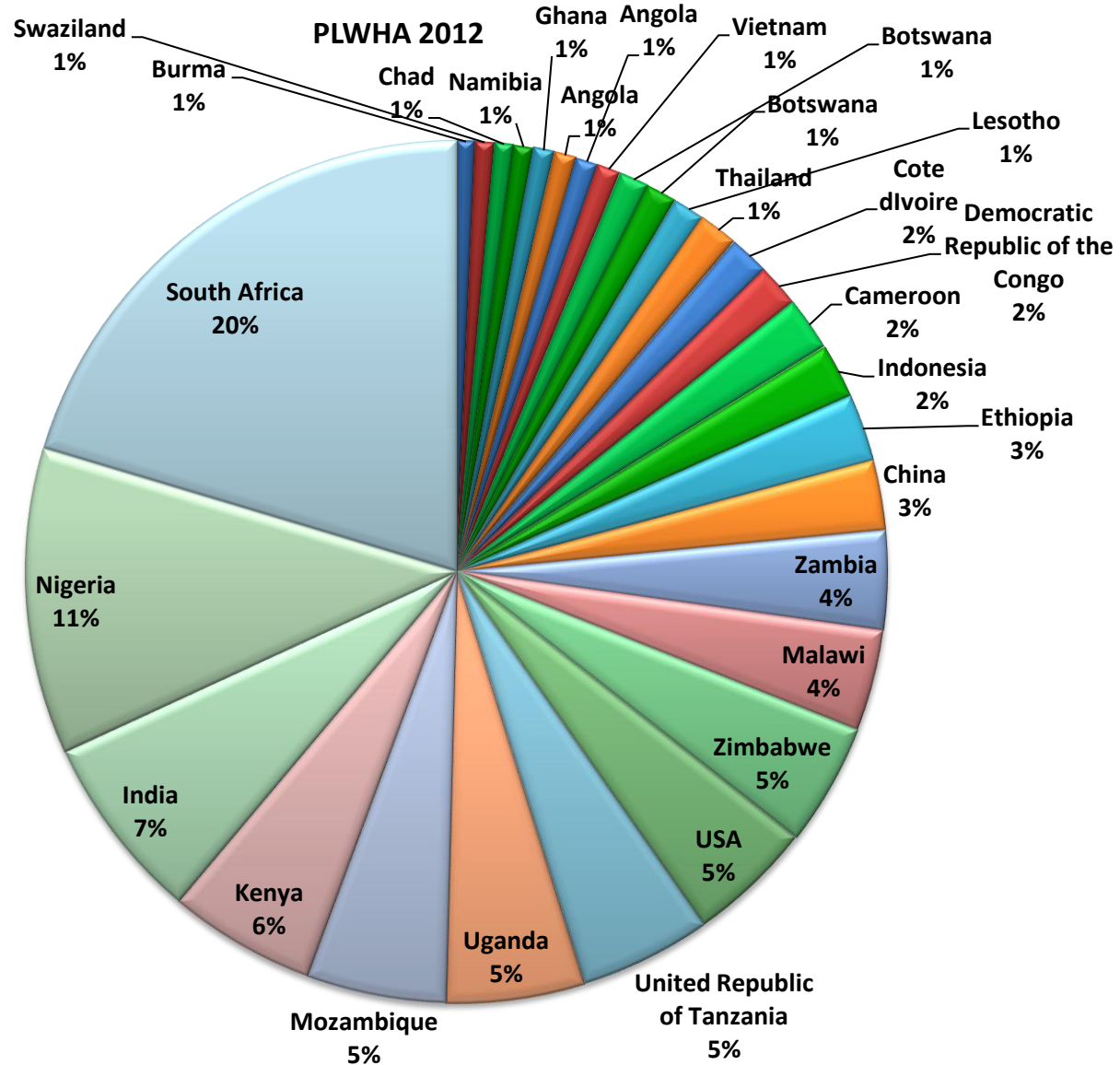
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Progress is not equal and disease burden must be addressed

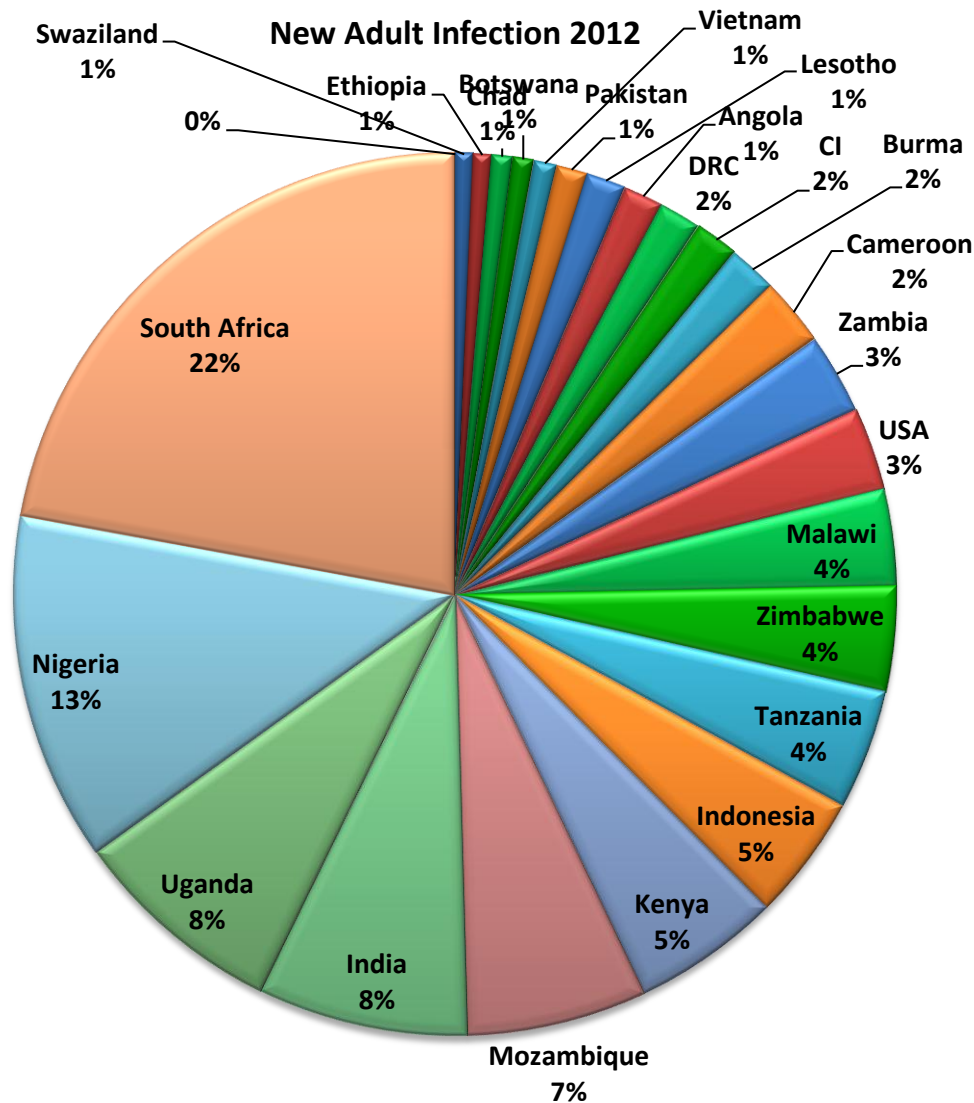


High Burden Countries HIV/AIDS

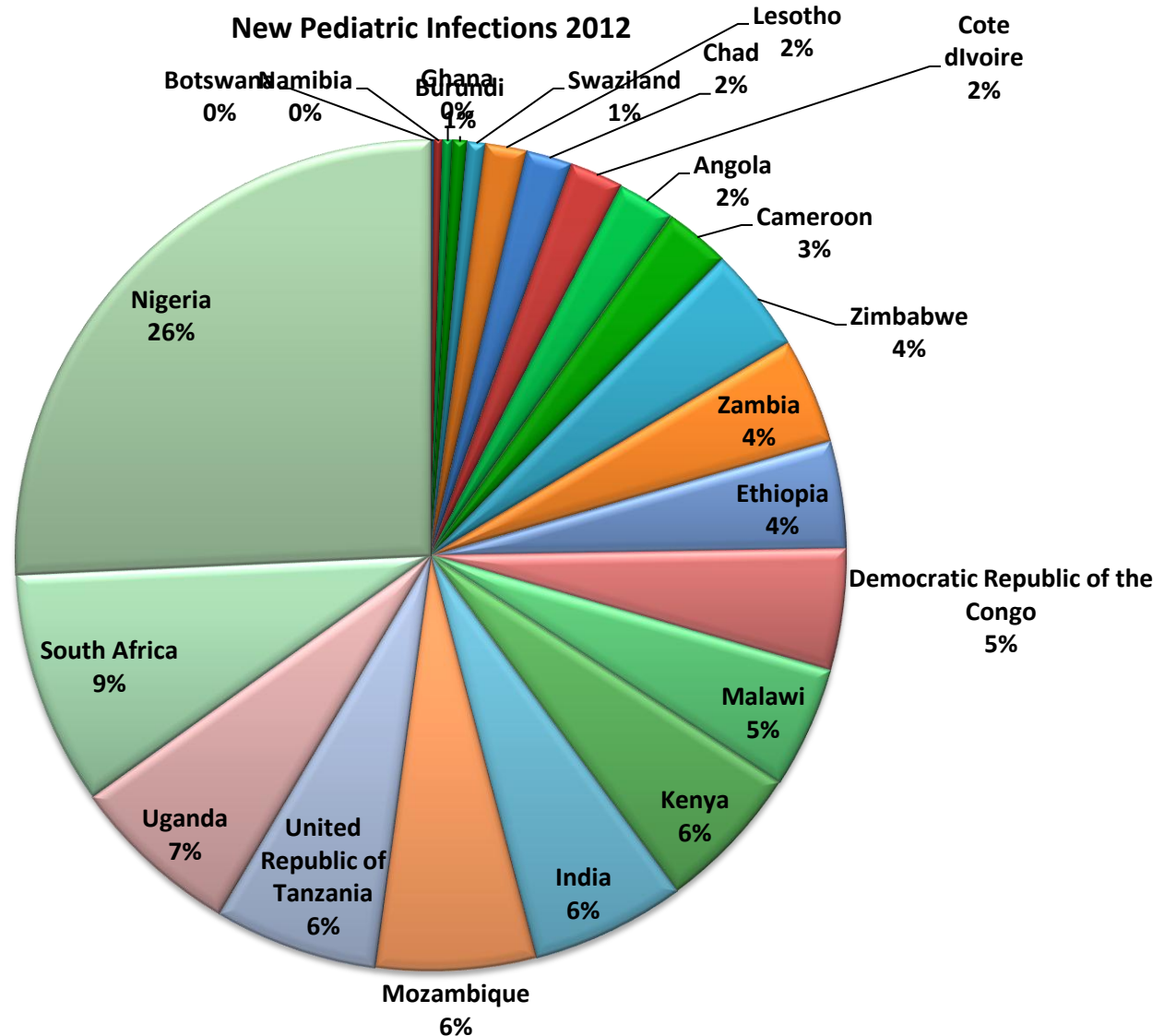
People Living with HIV/AIDS 2012



High Burden Countries HIV/AIDS New Adult Infections 2012

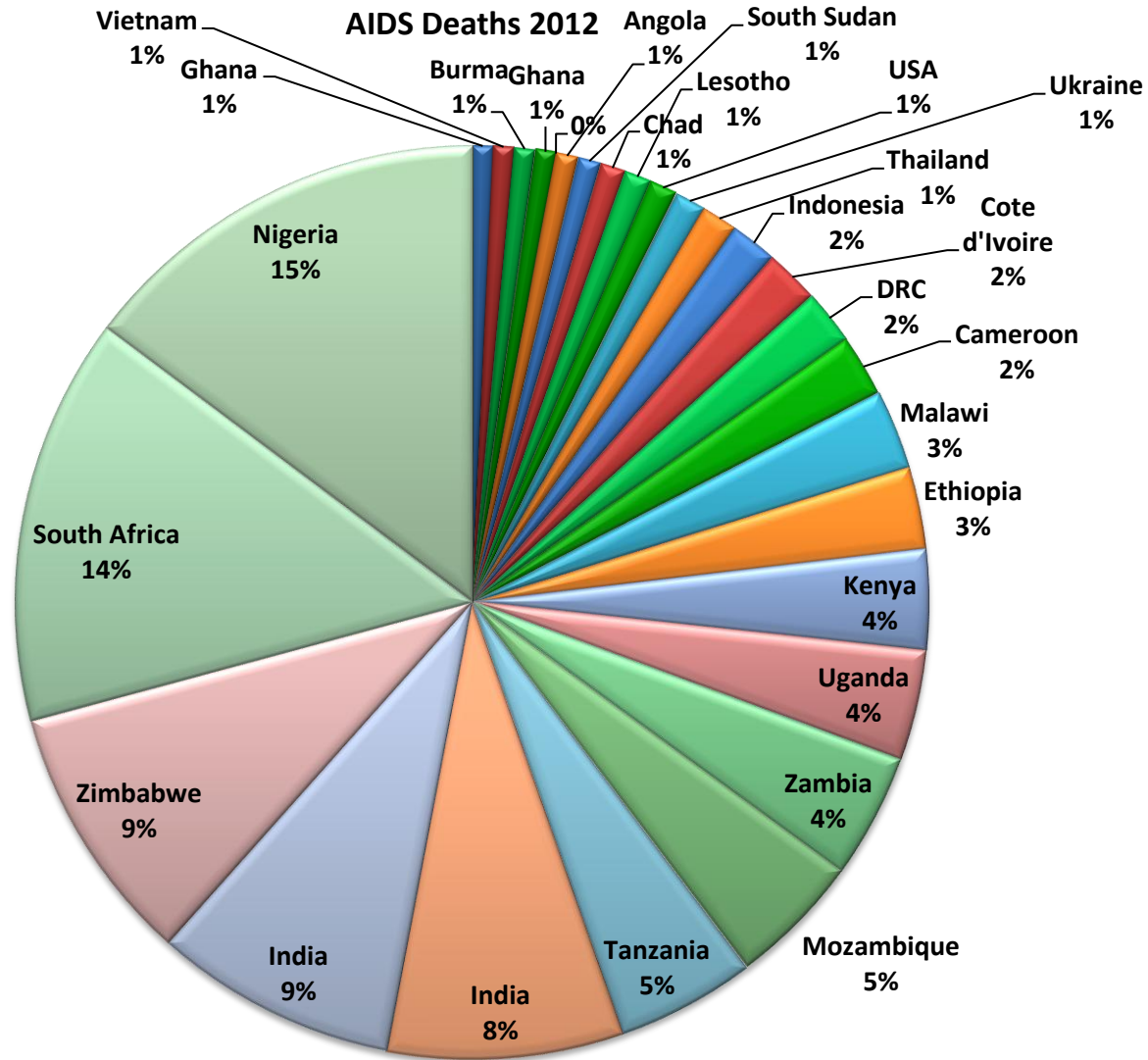


High Burden Countries HIV/AIDS New Pediatric Infections 2012



High Burden Countries HIV/AIDS

HIV/AIDS Deaths 2012



Summary

- ❑ **Comprehensive package of prevention package appropriate for the risk groups, country, epidemic**
 - Must be country specific
- ❑ **Provide depth and breadth of messages to ensure all clients can make informed decisions – continuous dialogue – complete dialogue**
 - Lessons learned from
 - VMMC
 - MAT
 - B+
 - ART initiation – importance of VL and long term potential of inflammation in areas of other endemic infectious diseases
- ❑ **Barriers to access – fluid and maybe community specific**
- ❑ **Dialogue with MoF, MoH, CBOs, NGOs and individuals – again complete dialogue**
 - Clarity in epidemic
 - Words matter and “hot spot” can be very stigmatizing