IMPLEMENTING HIVDR MONITORING FOR CLINICAL MANAGEMENT OF PATIENTS FAILING SECOND-LINE ART

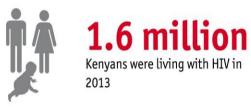
ASLM 4th December 2014

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Outline

- Epidemic Status
- Status of Treatment in Kenya
- HIV DR testing
 - Processes
 - Results
- Challenges / Way forward

HIV Burden in Kenya

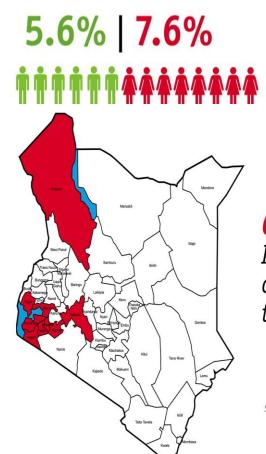


191,840 Children (0-14 years) were living

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County	Estimated PLHIV
Nairobi	177,552
Homabay	159,970
Kisumu	134,826
Siaya	128,568
Migori	88,405
Kisii	63,715
Nakuru	61,598
Kakamega	57,952
Mombasa	54,670
Kiambu	46,656

Sources: Kenya HIV Estimates Technical Report 2013 NASCOP Key Population Estimates Concensus Report 2012 National HIV Prevalence is 6%

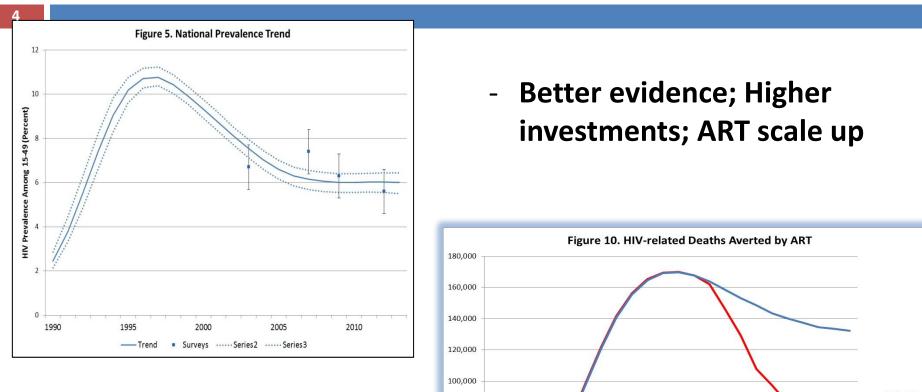


65% of new HIV infections occur in nine of the 47 Counties

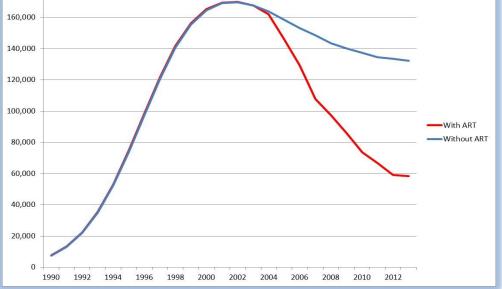
Sources: Kenya HIV Estimates Report 2014 Modes of Transmission 2008

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Kenya has made progress



An estimated 380,000 AIDS deaths averted since 2009 due to the scaleup of ART



HIV Treatment

- In 2011 MOH revised guidelines to include management of patients failing 2nd line ART
- All patients failing second line require HIV DR genotyping to determine treatment regimen
- As at end of October 2014, total patients on ART 741,521 (70,000 of these are children). 4% of these on 2nd line & PI based ART
- □ Increasing number of patients on 2nd line ART

Indications for HIV DRT

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- Confirmed 2nd line ART Virologic failure
 - Requires at least 2 VL tests conducted at 3months apart
- Failure of PI-based 1st line regimen
- Surveillance of HIV DR (pre-treatment , TDR and ADR)

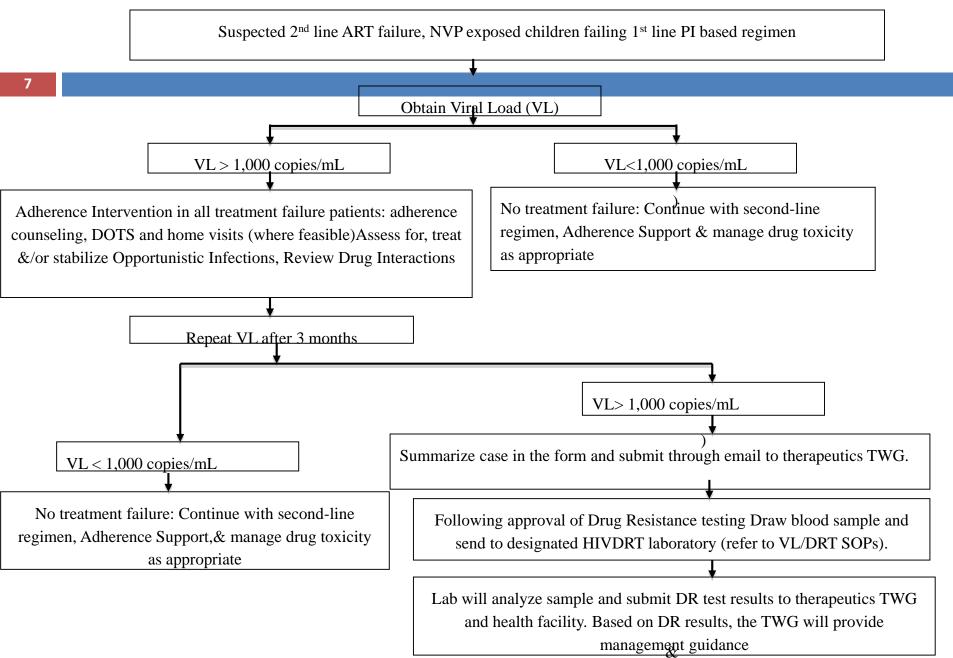




Tools developed

- Guidance document on DRT
- Laboratory request form
- Clinical summary form

Algorithm for DRT

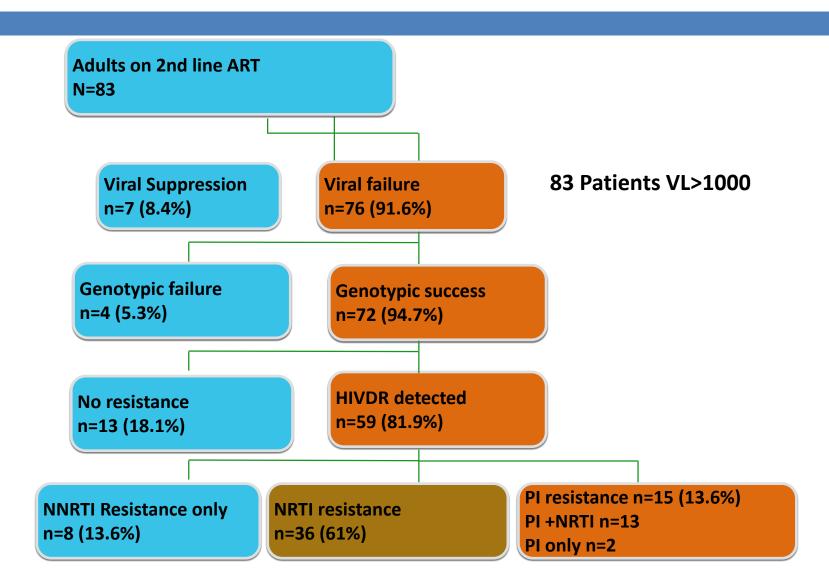


Support for DRT and Management

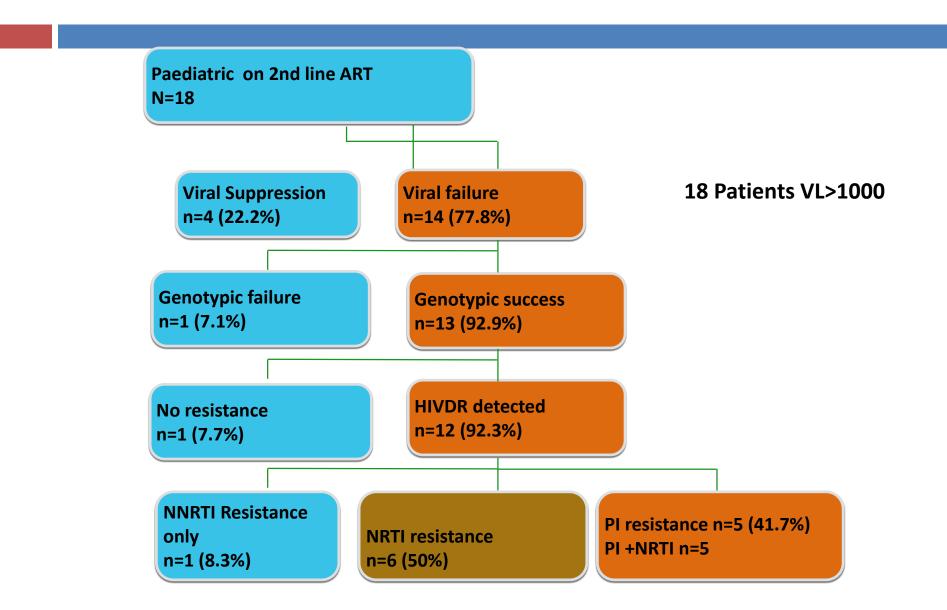
- PEPFAR provides resources for Genotyping. Annual current estimate is 150 tests. Started in 2012
- TWG made up of expert clinicians , program managers, constituted in 2012. TWG recommends DRT
- Transportation of samples supported by institutions or implementing partners
- SOPs for sample collection , packaging and transportation are available
- Average TAT for results 2 weeks . Results sent both to facility and National TWG
- □ TAT by TWG 2-4 weeks for communication to facilities



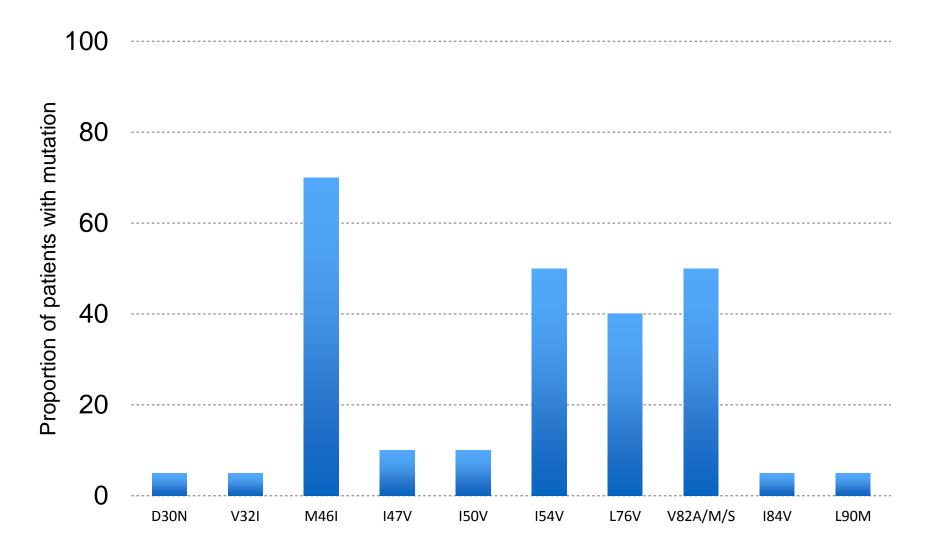
Determination of 2nd Line Treatment Failures in Adults N=83



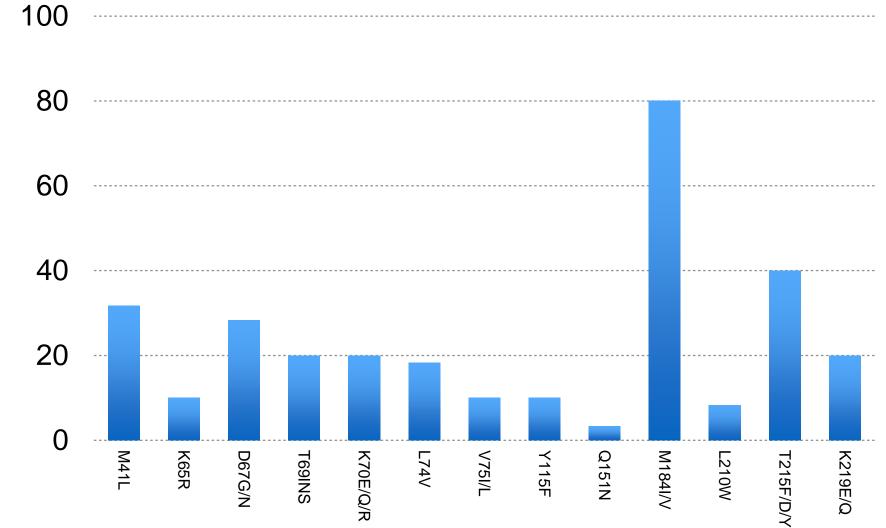
Determination of 2nd Line Treatment Failures in Paediatrics N=18



Patterns of PI mutations n=20



Patterns of NRTI mutations n= 60



Proportion of patients with mutation

Challenges/Key Issues

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 - Underreporting of 2nd lines failures due to lack of a clear reporting mechanism/not integrated into current systems
 - Centralized control of DRT and recommendations for patient management delays response to facilities
 - Sample movement a challenge as its partner/facility dependent
 - Unavailability of subsequent treatment options when DRMs confirmed
 - Uncertainty in funding for DRT in future
 - Future role of DRT in context of rising prevalence of TDR and pre-treatment DR

Way forward

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- Decentralization of capacity to regional teams
 - MOH and partners already forming teams and training on advanced HIV Clinical care
- Setting up a clear reporting mechanisms from sites –counties national
- MOH plans Conduct an active study to assess current levels of 2nd line treatment failure
- Need to Develop an active database to monitor patients on 2nd line based on routine VL tests
- Need to compile database of DRMs and clinical support tools to interpret and use DRT results to make management decisions
- Cheaper DRT needed