

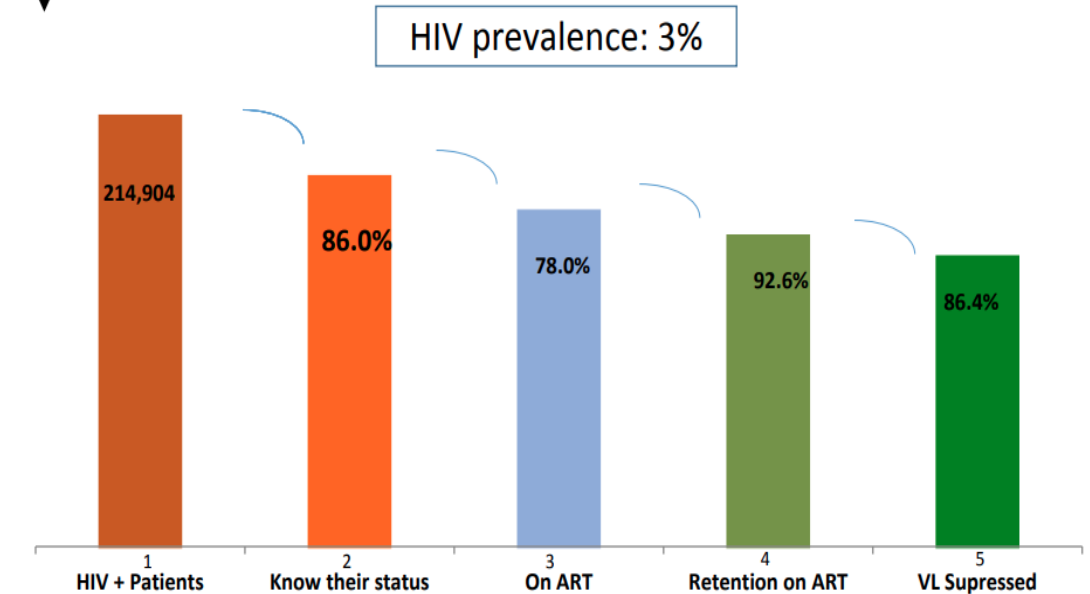
# Initiation of ART treatment in Rwanda and understanding barriers to the Treat All approach

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# Incidence and Prevalence of HIV/AIDS in Rwanda

- 214,904 Rwandans are HIV+
- Incidence: About 3/1000 persons per annum
- For every **10% increase** in antiretroviral therapy (ART) coverage, there is a **6% reduction** in incidence



Data sources: 1. Epi spectrum estimates 2015; 2.DHS2015; 3,4,5: HMIS June 2016

# Background: Treat All Protocol

## What is the Treat All Protocol?

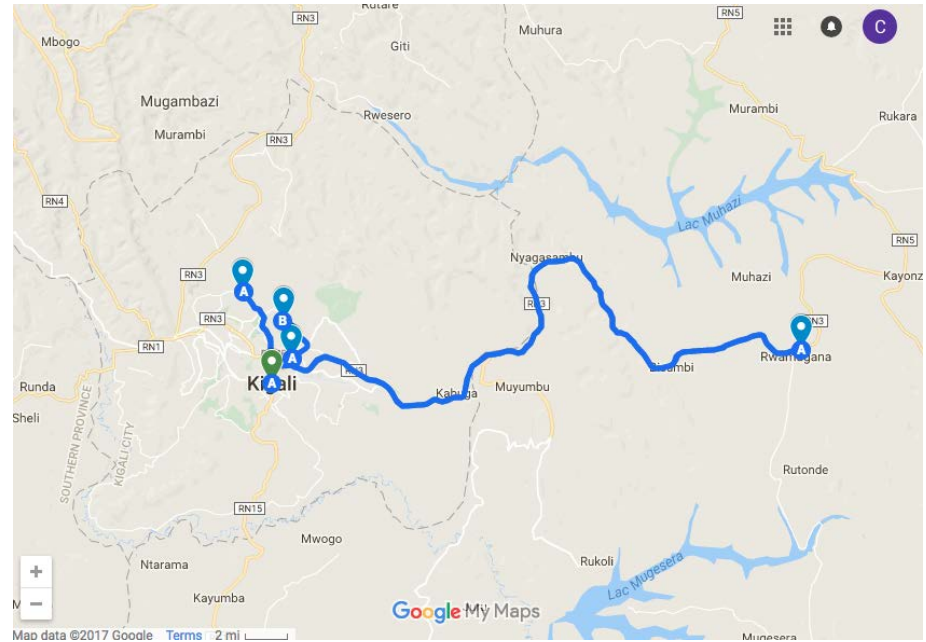
- The implementation of the WHO's evidence-based recommendation to remove conditions for initiation of antiretroviral therapy in patients infected with HIV/AIDS, and instead treat all patients affected with the disease

## In Rwanda:

- HIV infected: Initiation on first-line ART therapy
- Patients see HCPs every three months for HIV/AIDS care consultation and medication refills
- DSDM: Consistent viral load suppression, allows for patients to come every six months

# Our Project: ART Initiation and Understanding Barriers to the Treat All Approach

- Three Days of Clinic Visits
  - Day 1: Kagugu
  - Day 2: Avega
  - Day 3: Remera
- One Day in Hospital
  - Day 4: Kibagabaga Hospital



# Our Project: Typical Clinic Visit

- Setting:
  - Generally conducted in a small to medium sized room inside of the clinic
  - There is a table that separates the patient from the healthcare provider
    - Examination table may be present, but patients do not use it
  - Patients waited on benches or chairs outside of the room, and were called in by the next patient
- Providers: Doctors or Nurses
  - HCPs interview the patient about their condition
    - Review their CD4 count and viral load
    - Ask about compliance
    - Problems with the medications
    - Other symptoms/medical concerns
    - Write a refill for their next supply of medication or suggest a change in therapy
  - They complete each patient's dossier (paper health record) with what happened during the patient encounter

# Understanding Barriers to Care

- Familial Problems
- Religious Beliefs
- Type of Employment
- Financial and Resource Limitations
- Training of Healthcare Providers



The overarching cause of virologic failure is **poor adherence**



## 2017 HIV Scientific Workshop

*Global HIV and Viral Hepatitis  
scientific updates to inform  
comprehensive HIV guidelines for  
Rwanda*



# HIV Scientific Workshop

- HIV Prevention
- HIV Care & Treatment
- Sexually Transmitted Infections (STIs) and Other Blood Borne Infections (OBBIs)





# HIV Prevention

- **Testing: self, targeted, linkage to care**
- Tetanus vaccine in context of voluntary medical male circumcision (VMMC)
- Prevention of mother-to-child transmission (PMTCT)
- Vaccine

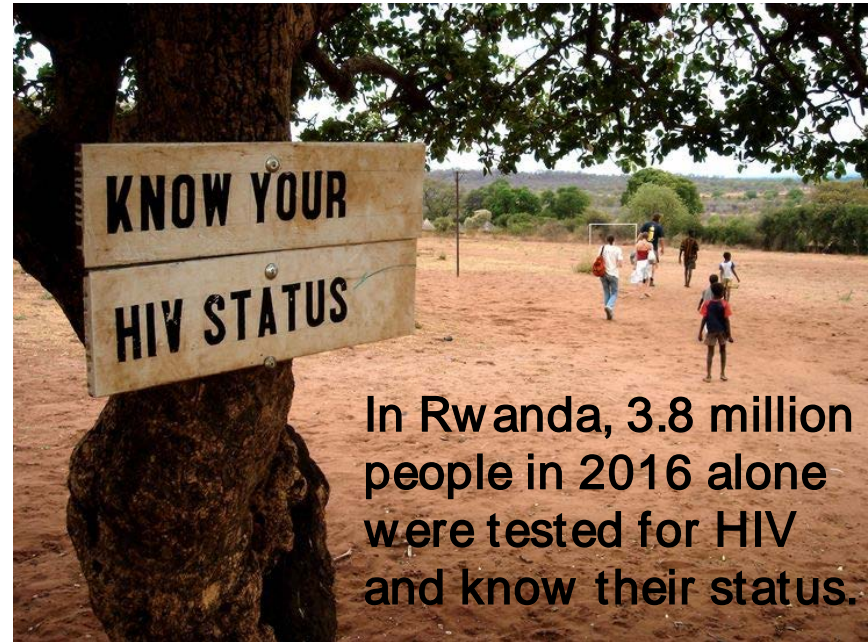


# HIV Prevention: Testing

- Targeted testing
- Self testing
- Linkage to care

Risk group*	Contributions to HIV incidence (MOT)	HIV prevalence
SDC	65%	3.43% <sup>1</sup>
FSW	20%	51% <sup>2</sup>
Youth	10%	1% <sup>1</sup>
MSM/MSW	5%	13.7% <sup>3</sup>

<sup>1</sup>: Rwanda DHS 2010    <sup>2</sup>: BSS FSW, Rwanda 2010    <sup>3</sup>: BSS MSM, Kampala, Uganda



<https://i.pinimg.com/736x/20/39/43/203943df47d7c0369adf9e3abced2103--treatment-for-hiv-hiv-images.jpg>

# HIV Care & Treatment

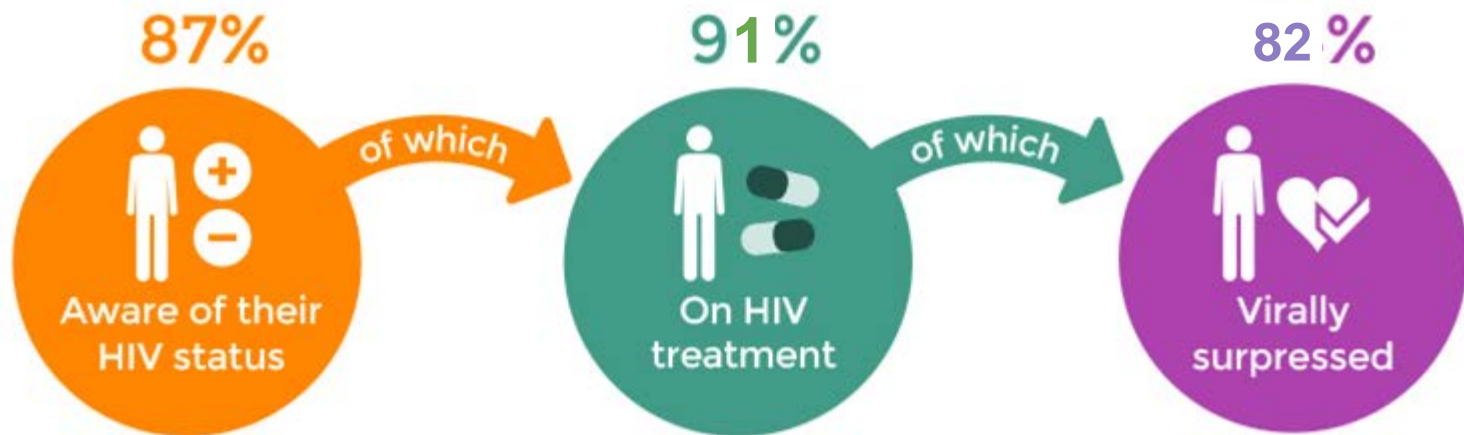
- **Community actors in achieving 90/90/90**
- Novel ART Therapies
- **Adherence, Monitoring with Differentiated Service Delivery Model (DSDM)**
- Comorbidities & opportunistic infections (OI) prophylaxis
- **Children & adolescents**



<http://consumentenkring.com/wp-content/uploads/2016/03/aids-1170x781.jpg>

# HIV Care & Treatment: Community Actors & 90/90/90

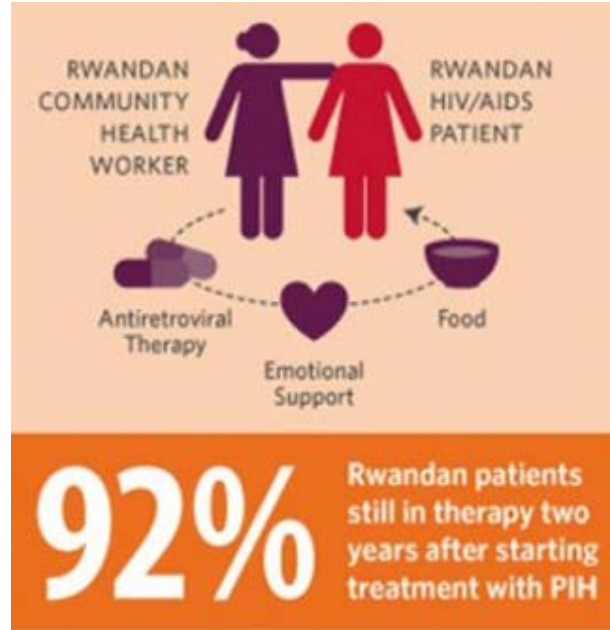
Progress towards 90/90/90 targets for 2020



# HIV Care & Treatment: Community Actors & 90/90/90

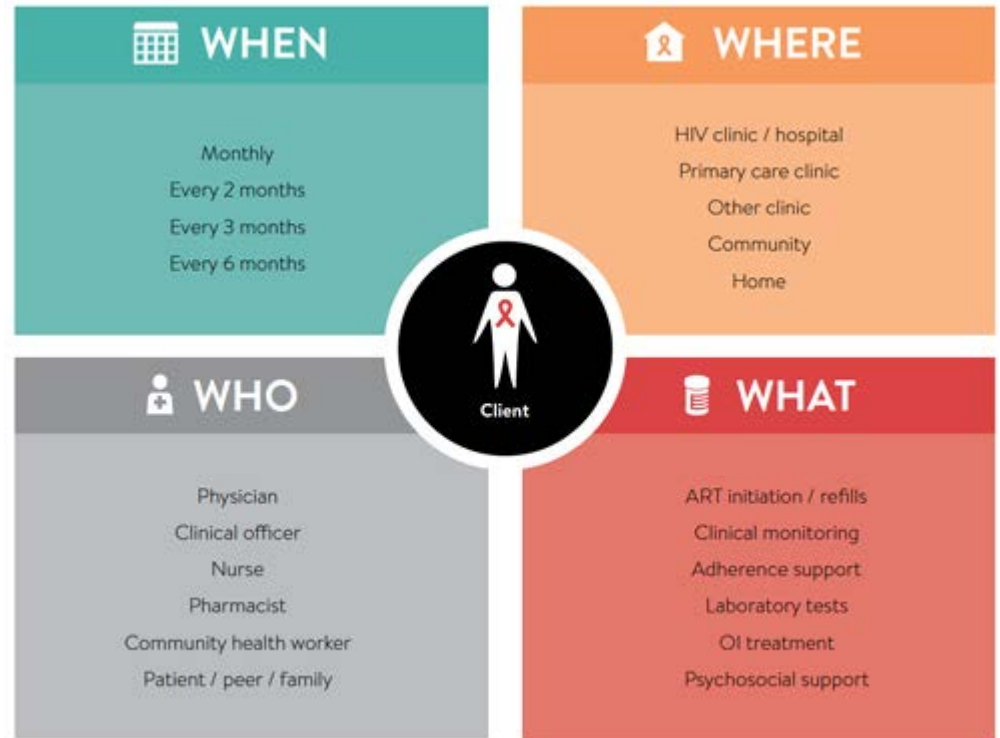


# HIV Care & Treatment: Community Actors & 90/90/90



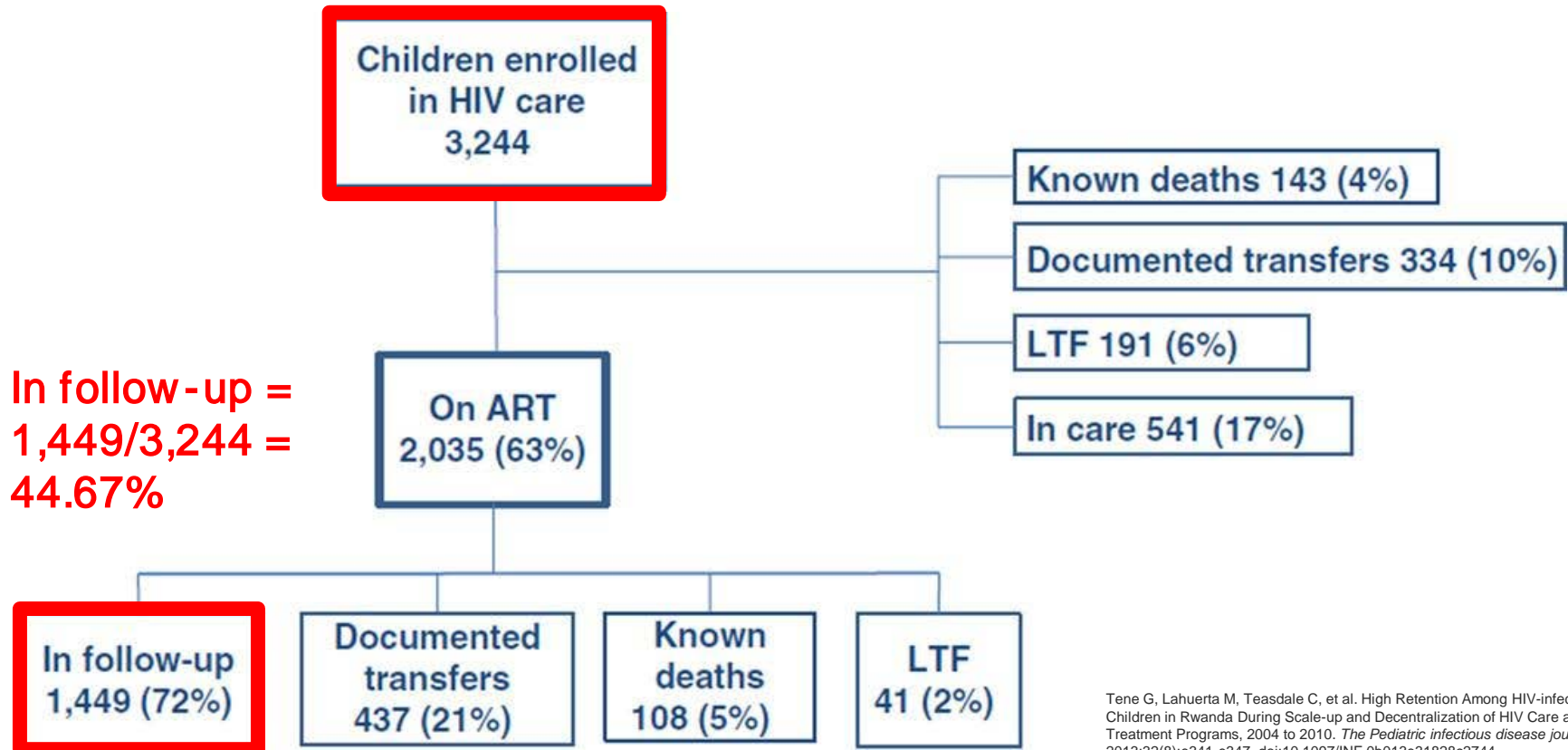
# HIV Care & Treatment: Adherence, Monitoring, DSDM

- Retention
- Continuum of care
- Key populations
- Feasibility
- Task shifting
- Cost effectiveness
- Integration





# HIV Care & Treatment: Children & Adolescents





# Reflections and Conclusions

- We were humbled to deepen our learning about the genocidal history of Rwanda, yet awed at how far the country has come in rebuilding and revitalizing itself.
- There is much to be learned from the country's commitment to "Never go back"



# Thank you!



Questions?

# Acknowledgements

Dr. David Riedel, our mentor

All healthcare providers we worked with in Rwanda

# References

*Consolidated Guidelines on the Use of Antiretroviral Drugs for Treating and Preventing HIV Infection* . 2016, [apps.who.int/iris/bitstream/10665/208825/1/9789241549684\\_eng.pdf?ua=1](https://apps.who.int/iris/bitstream/10665/208825/1/9789241549684_eng.pdf?ua=1).

“National Guidelines for Comprehensive Care of People Living with HIV in Rwanda .” [aidsfree.usaid.gov/sites/default/files/tx\\_rwanda\\_2011.pdf](https://aidsfree.usaid.gov/sites/default/files/tx_rwanda_2011.pdf).

Ndahimana, J d, et al. *HIV Drug Resistance Mutations among Patients Failing Second-Line Antiretroviral Therapy in Rwanda*. U.S. National Library of Medicine, 12 Nov. 2015, [www.ncbi.nlm.nih.gov/pubmed/26562173](https://www.ncbi.nlm.nih.gov/pubmed/26562173).

Nsanzimana, Sabin. “‘Treat All’ HIV+ In Rwanda .” Geneva IAPAC Meeting . Geneva IAPAC Meeting , Oct. 2013.

Other references also included on individual slides