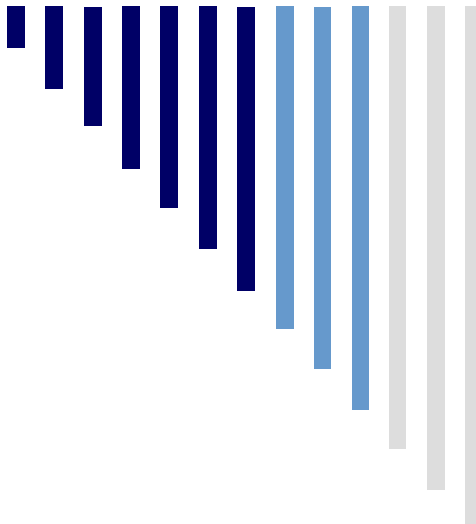




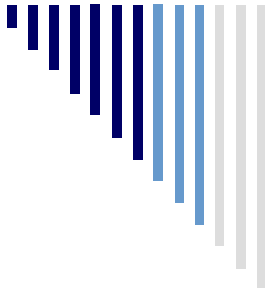
They are likely to be there: Family testing approach to facilitate achievement of 90:90:90 strategy among children in Kenya

8th UCSF East Africa Collaborative Scientific Symposium
Kampala, Uganda
January 14th -15th 2016



Nicollate Okoko¹, Patrick Oyaro¹, Eliud Akama¹, Maggie Mburu¹,
Frankline Otieno¹, Julie Kadima¹, Cinthia Blat², Helen Muttai³, Lisa Abuogi⁴,
Elizabeth A. Bukusi¹, Craig R. Cohen², Jayne Lewis Kulzer²

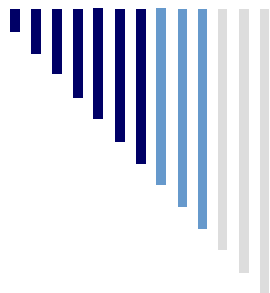




Affiliations



1. Kenya Medical Research Institute (KEMRI), Nairobi, Kenya
2. Department of Obstetrics, Gynecology and Reproductive Sciences, University of California San Francisco, San Francisco, CA, USA
3. U.S. Centers for Disease Control and Prevention, Division of Global HIV/AIDS & TB, Nairobi, Kenya
4. Department of Pediatrics, University of Colorado, Denver, CO, USA



HIV burden in Kenya



1.6 million

Kenyans were living with HIV in 2013

National HIV Prevalence is 6%

5.6% | 7.6%



191,840

Children (0-14 years) were living with HIV in 2013

New HIV infections

101, 560 Kenyans were infected with HIV in 2013



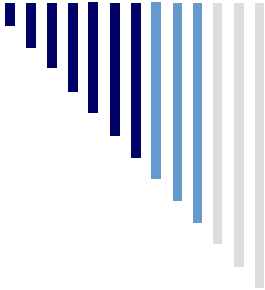
12,940 children were infected in 2013



50,530 women were infected in 2013



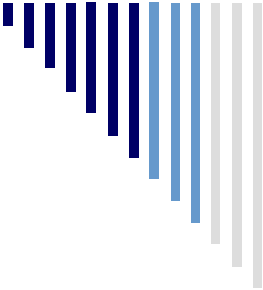
38, 090 men were infected in 2013



Background



- ☐ In Kenya, fewer than half of all children 18 months to 14 years old with a HIV-positive parent have ever been tested for HIV
- ☐ Strategies to identify and test children at risk for HIV are especially critical in the Nyanza region, where the HIV prevalence is nearly three times the national average at 15.1%
- ☐ This study examined the impact of a family-centered approach to reach children (0-14 years) with HIV testing



Prior Family Approach Evaluation Findings

Family Model of HIV Care and Treatment: A Retrospective Study in Kenya

Data collected September 2007-2009
1 site

284 index

led to 1.7 children at risk identified

484 children Identified

276 (57%) tested

50 (18%) HIV positive

43 (86%) enrolled

Evaluation and Utility of a Family Information Table to Identify and Test Children at Risk for HIV in Kenya

Data Collected June – August 2012
5 sites

384 index

Led to 2.43 children at risk identified

933 children identified

739 (79%) tested

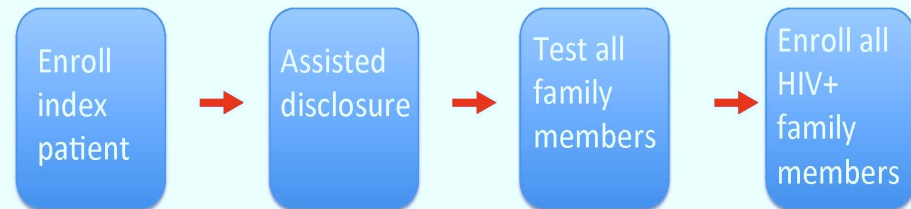
65 (7.4% HIV positive; 17 (2.3%) HEI

60 (95%) of 63 index with HIV positive and HEI reported enrolled/HEI monitored

Family Model of Care



Family Model of Care Approach



Family-centered counseling and education

Family-centered clinic appointments and follow up

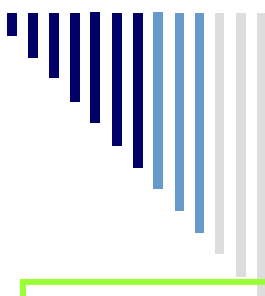
HIV prevention services

Comprehensive HIV Care and Treatment

Counseling and support groups (eg. FP, psychosocial)

Caregiver, Adolescent, and Children's Clubs

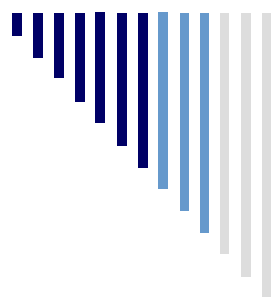
Continuous family testing review and follow up



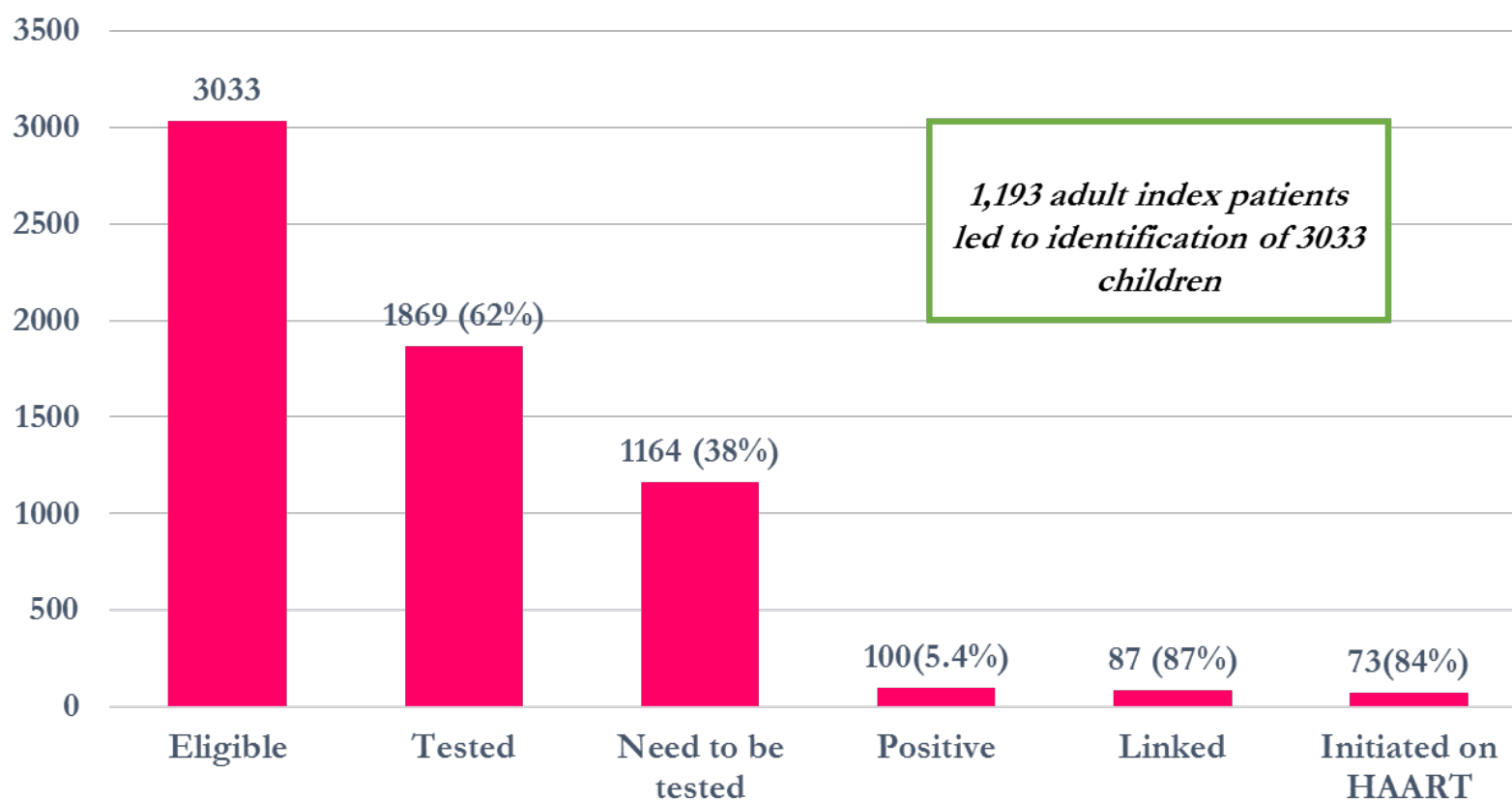
Methods



- Retrospective review of clinical records
- Convenience sample of 60 high-volume clinics across three Nyanza counties: Kisumu, Homabay, and Migori
- Adult index patients who enrolled in HIV care May–July 2015 were followed until October 2015
- Family member testing status, results, and enrolment and ART initiation for those positive were abstracted and summarized and p-trends and chi-square were conducted
- **Comparison of positivity proportion among children to:**
 1. 1. Prior studies that used the family approach in the same region,
 2. 2. Outpatient and inpatient testing data performed in the same region from July–September 2015, respectively



Family Approach to Identify, Test, and Enroll Children (0-14) May – Oct 2015 (60 sites)

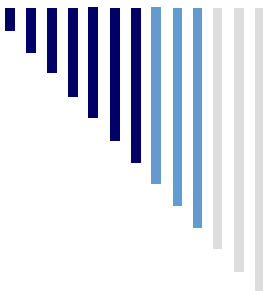


Geographical Positivity Variation



County	Child HIV positivity	HIV positivity range
Kisumu 10 sites	22/416 (5.3%)	0 – 15%
Homa Bay 20 sites	27/593 (4.5%)	0 – 100%* * 1 small site with 1 positive/1 tested explains 100%
Migori 30 sites	51/860 (5.9%)	0 – 36%



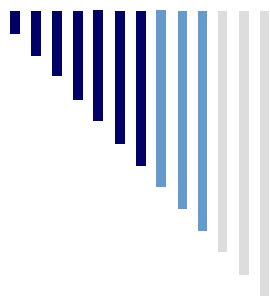


Comparison: 3 Approaches



Testing Approach for Children (0-14)	Time Period	Number of Sites	HIV Positivity Yield
Family Approach	May – Oct 2015	60	100/1869 (5.4%)
Outpatient	Jul – Sep 2015	148	309/46,002 (<1%)
Inpatient	Jul – Sep 2015	148	24/1,636 (1.5%)

Positivity among children reached through the family approach were higher than inpatient (1.5%) or outpatient (<1%) testing rates ($p<0.001$)



Conclusion



- The family approach leads to high identification, linkage, and ART initiation for HIV-positive children
- Although HIV positivity among children were lower than observed in previous family approach studies and appear to be declining, it continues to have a higher yield in comparison to program-wide inpatient and outpatient testing
- The family approach offers an important entry point for identification of children and adolescents at risk of HIV and the opportunity for targeted follow-up through the HIV care cascade

Acknowledgment

☐ MOH

☐ CDC

☐ FACES

☐ PEPFAR

☐ CIFF/ACT

☐ FACES staff, clients and families

*FACES is a collaborative **KEMRI** and **UCSF** program funded through a cooperative agreement with the U.S. Centers for Disease Control and Prevention (**CDC**) and U.S. President's Emergency Funding for AIDS Relief (**PEPFAR**)*

This publication was made possible by support from the U.S. President's Emergency Plan for AIDS Relief (PEPFAR) through cooperative agreement U2GPS001913-05 from the U.S. Centers for Disease Control and Prevention (CDC), Division of Global HIV/AIDS & TB (DGHT).

The findings and conclusions in this poster are those of the authors and do not necessarily represent the official position of the U.S. Centers for Disease Control and Prevention or Government of Kenya.

REPUBLIC OF KENYA
MINISTRY OF HEALTH



University of California
San Francisco

