



PEPFAR

U.S. President's Emergency Plan for AIDS Relief



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*Applying Science to Strengthen
and Improve Systems*

System-level Integration of Mother-Baby Services to Eliminate Mother-to-Child Transmission of HIV (EMTCT): The Missing Link

Isaac Chome Mwamuye, Benard Makenzi, Roselyn Were,
Faith Mwangi-Powell, Michael K Mwaniki, Kenya

Amy Stern, USA

University Research Co., LLC

The Partnership for HIV-Free Survival (PHFS)

- **Six countries: Uganda, Tanzania, Kenya, Lesotho, Mozambique, South Africa**
- **ASSIST supporting PHFS in Uganda, Tanzania, Kenya, Lesotho**
- **Community demonstration work in Mozambique**

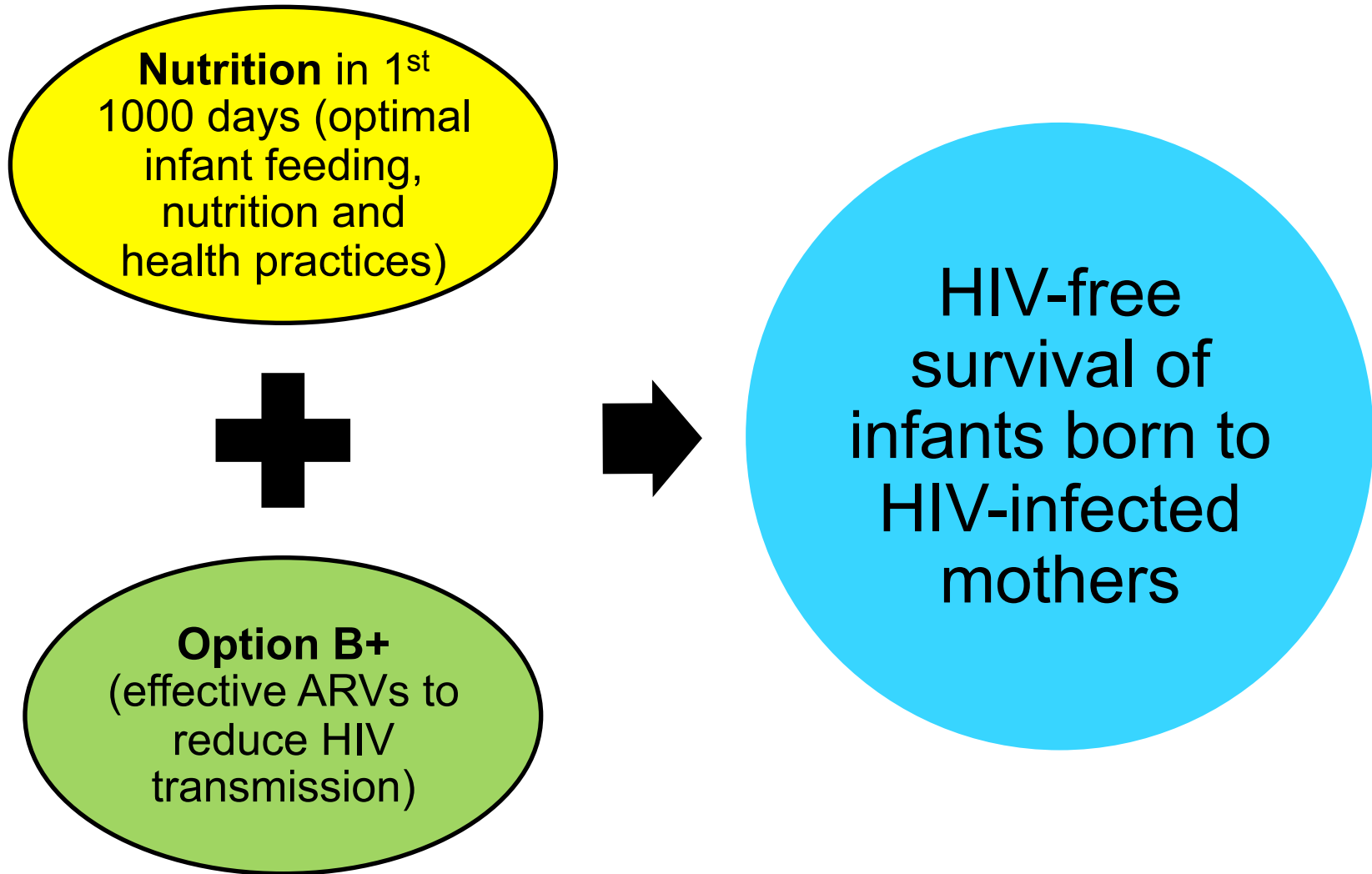


PHFS in Kenya



- **Demonstration/ learning sites:** 16 sites in Kwale County
- **Plans for spread:** Kwale County Health Management Team to spread change ideas to sites within Kwale County that are not part of PHFS

PHFS Strategy

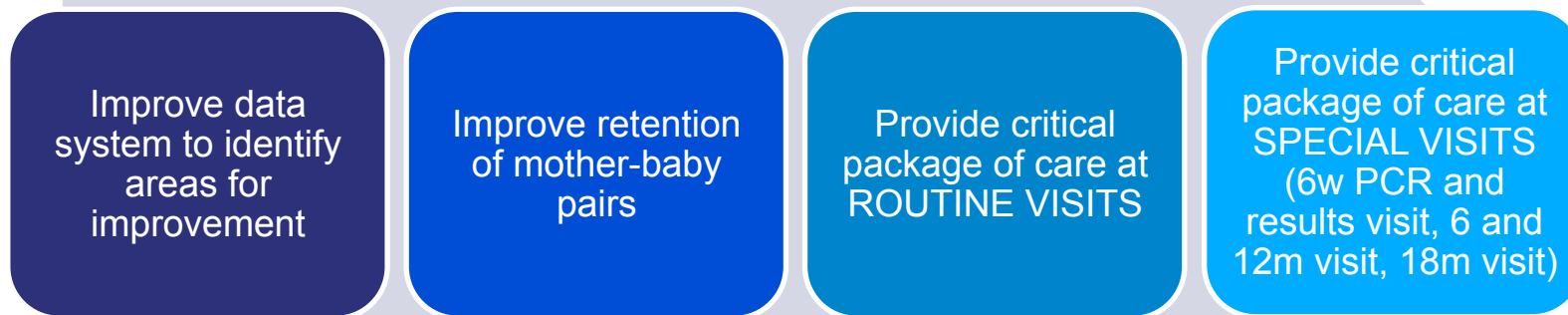


Applying improvement to achieve HIV-free survival

WHAT ARE WE TRYING TO ACHIEVE?

- HIV-positive mothers who are alive and in care
- Exposed infants who are HIV-free, alive and in care

Missing link : System level efforts to integrate MNC care



Mother-baby pair register

Mother –Baby Pair Register

MOTHER BABY PAIR REGISTER

Serial No.	Date of Enrollment	Unique Number	Name			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	COMMENTS								
1.			Mother:	LNMP	Physical Address	WHO Stage																																						
						CD4 Count/Viral Load																																						
						Ca Cervix Screening																																						
						Family Planning																																						
						Cotrimoxazole prophylaxis																																						
				EDD	Mobile Number	ART Regimen																																						
						HB																																						
					Height	MUAC																																						
						Weight																																						
						BMI																																						
			HIV Status of Partner		Vitamin A																																							
					Nutritional Counseling/ Support Offered																																							
					Blood Group	Tetanus Toxoid																																						
						IPT																																						
						Ferrous Sulphate/Folate																																						
			Cotrimoxazole prophylaxis																																									
			Infant:	Birth Weight		Date of next appointment (mother and baby)																																						
						Immunizations																																						
							Vitamin A supplements																																					
							Vitamin A supplements																																					
Cotrimoxazole prophylaxis																																												
Mode of Delivery		Prophylactic ART																																										
		Feeding Option																																										
		Height																																										
		Weight																																										
		Musc																																										
Place of delivery	Hospital	Home	1 st PCR																																									
			HIV test at 9 months																																									
Date of Birth			HIV test at 18 months (confirmatory PCR if necessary)																																									

Mother-Baby Pair register

Serial No.	Date of Enrollment	Unique Number	Name					1	2	3	4	5	6	7				
1.			Mother:	LNMP		Physical Address		WHO Stage										
								Cd4 Count/Viral Load										
								Ca Cervix Screening										
								Family Planning										
				EDD		Mobile Number		Cotrimoxazole prophylaxis										
								ART Regimen										
								HB										
								Height										
				HIV Status of Partner				MUAC										
								Weight										
								BMI										
								Vitamin A										
			Blood Group				Nutritional Counseling/ Support Offered											
							Tetanus Toxoid											
							IPT											
							Iron/Folic Acid											
			Infant:				Birth Weight				Date of most appointment (mother and baby)							
											Immunizations							
											Vitamin A supplements							
											Cotrimoxazole prophylaxis							
											Prophylactic ART							
											Feeding Option							
							Mode of Delivery				Height							
											Weight							
Muac																		
Place of delivery								Hospital										
								Home										
Date of Birth												1 st PCR						
			HIV test at 9 months															
								HIV test at 18 months (confirmatory PCR if necessary)										

Kenya mother-baby pair register

- Integrates the entire care package for mother (pre and postnatal) and HEI into same place, time and care provider
- Institutionalization: NASCOP reviewing MB pair register for possible adoption as a standard MOH tool.

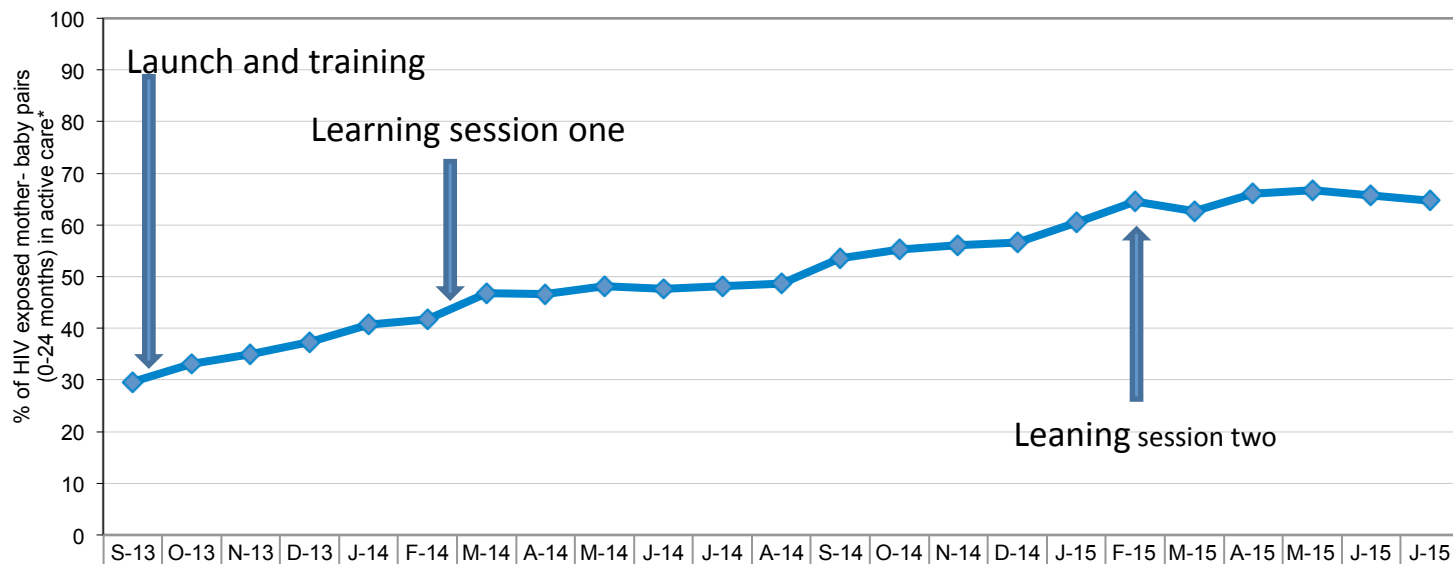
Mother and baby seen at the same time, same place , by same health worker

Improvement in retention in care, Kwale County, Kenya

% of HIV exposed mother- baby pairs (0-24 months) in active care* in 16 sites in Kwale County, Sept 2013 – July 2015

Change Ideas

1. Integration of services
2. Mother baby pair register
3. conducting of HEI days
4. Improved filing systems to help in identifying defaulters



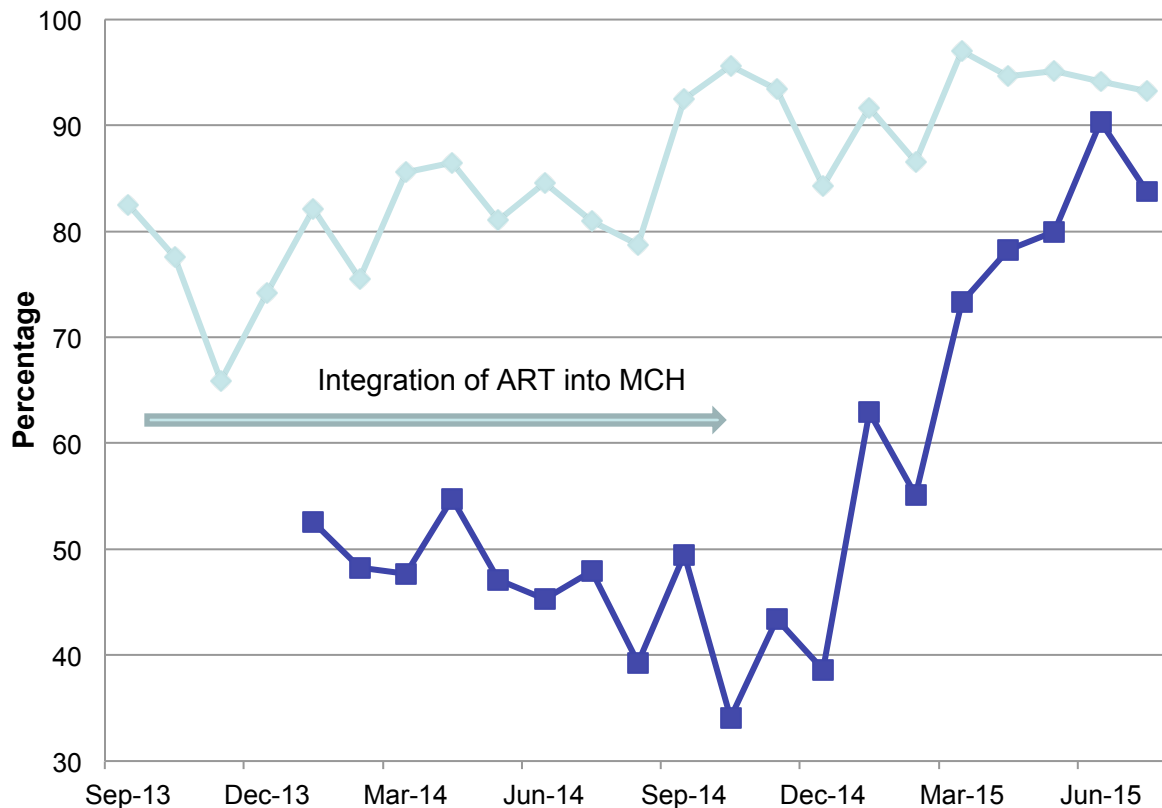
	S-13	O-13	N-13	D-13	J-14	F-14	M-14	A-14	M-14	J-14	J-14	A-14	S-14	O-14	N-14	D-14	J-15	F-15	M-15	A-15	M-15	J-15	J-15
# of HIV exposed mother baby pairs(0-24 months) in active care	218	244	257	275	380	403	396	325	336	293	296	320	399	414	423	429	620	642	625	658	666	657	648
Expected # of HIV exposed mother baby pairs in the facility catchment population 0-24 months	736	736	736	736	932	967	847	698	698	614	614	657	746	750	755	758	1025	996	996	996	998	999	1001
◆ % of HIV exposed mother- baby pairs (0-24 months) in active care*	30	33	35	37	41	42	47	47	48	48	48	49	53	55	56	57	60	64	63	66	67	66	65
# of Sites Reporting	13	13	13	13	15	16	15	12	12	11	11	11	13	13	13	13	16	16	16	16	16	16	16

Provision of ART for pregnant women and NVP for unborn children, Kwale County, Kenya

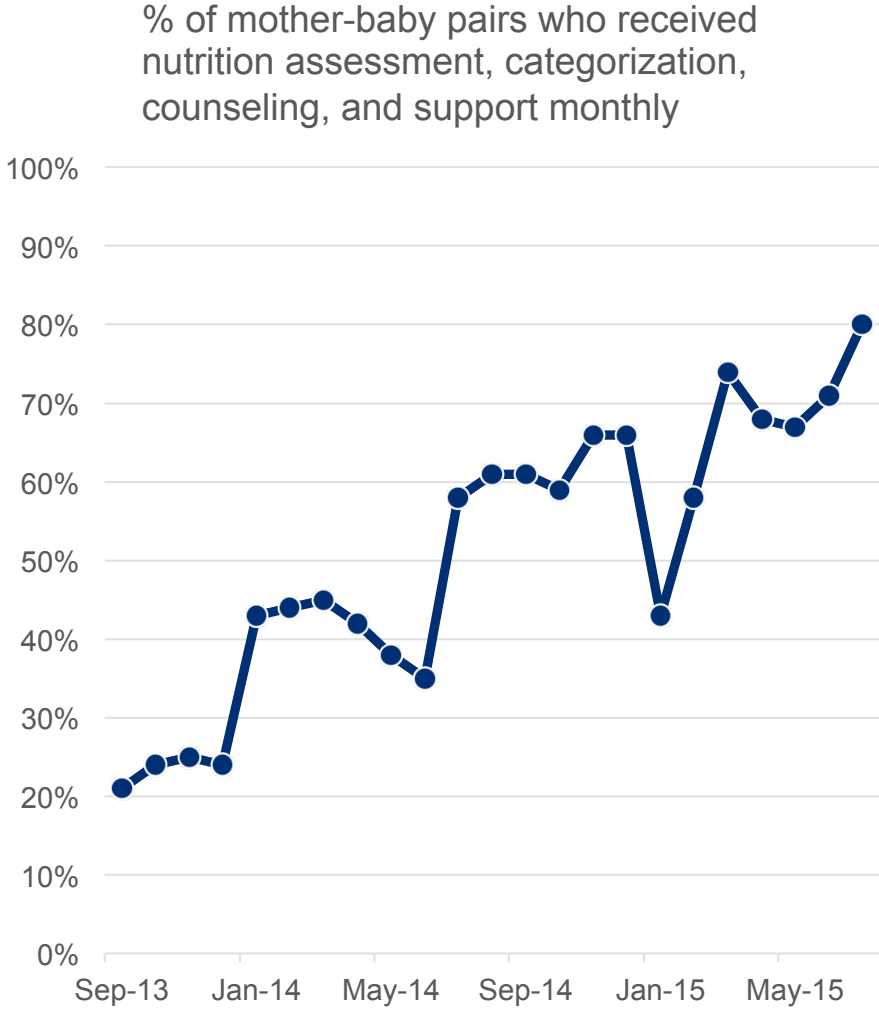
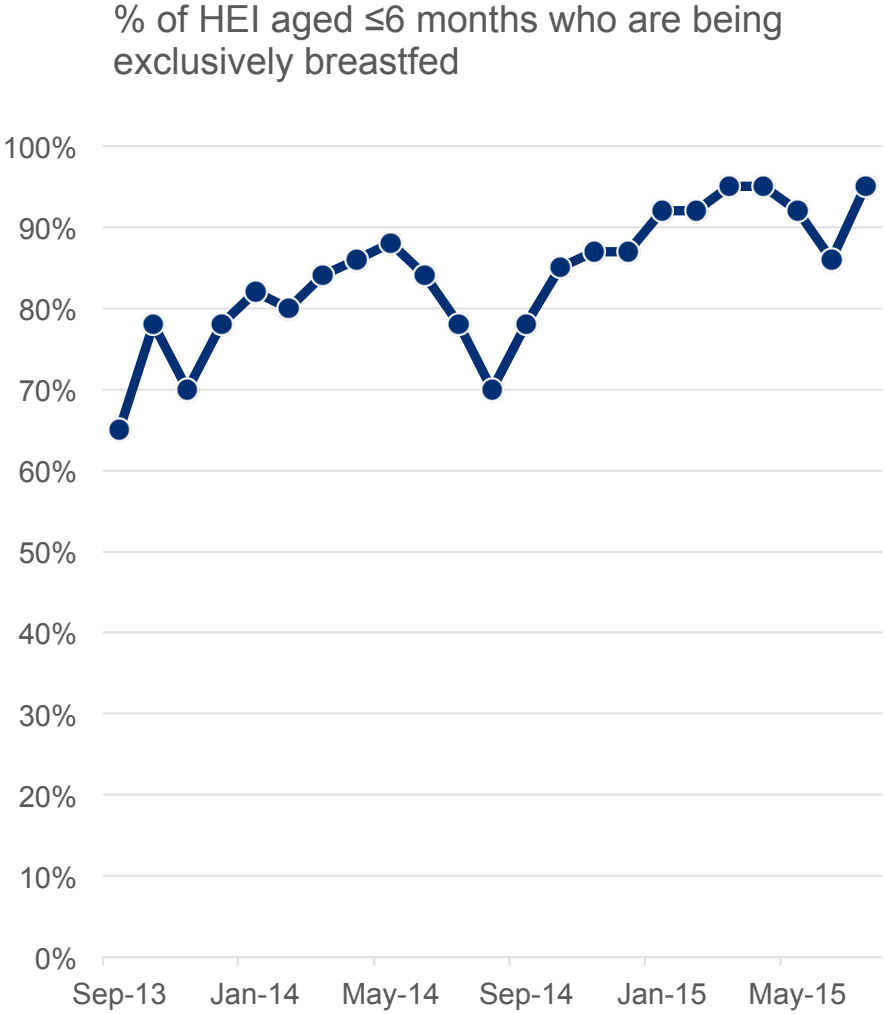
— % of HIV+VE pregnant mothers attending ANC monthly on ARVs (prophylactic or HAART)

Change ideas

1. Provision of ART in MCH
2. CMEs and mentorship
3. Checking of mothers HIV status in Mother-child booklet to identify missed opportunities and start them on ART

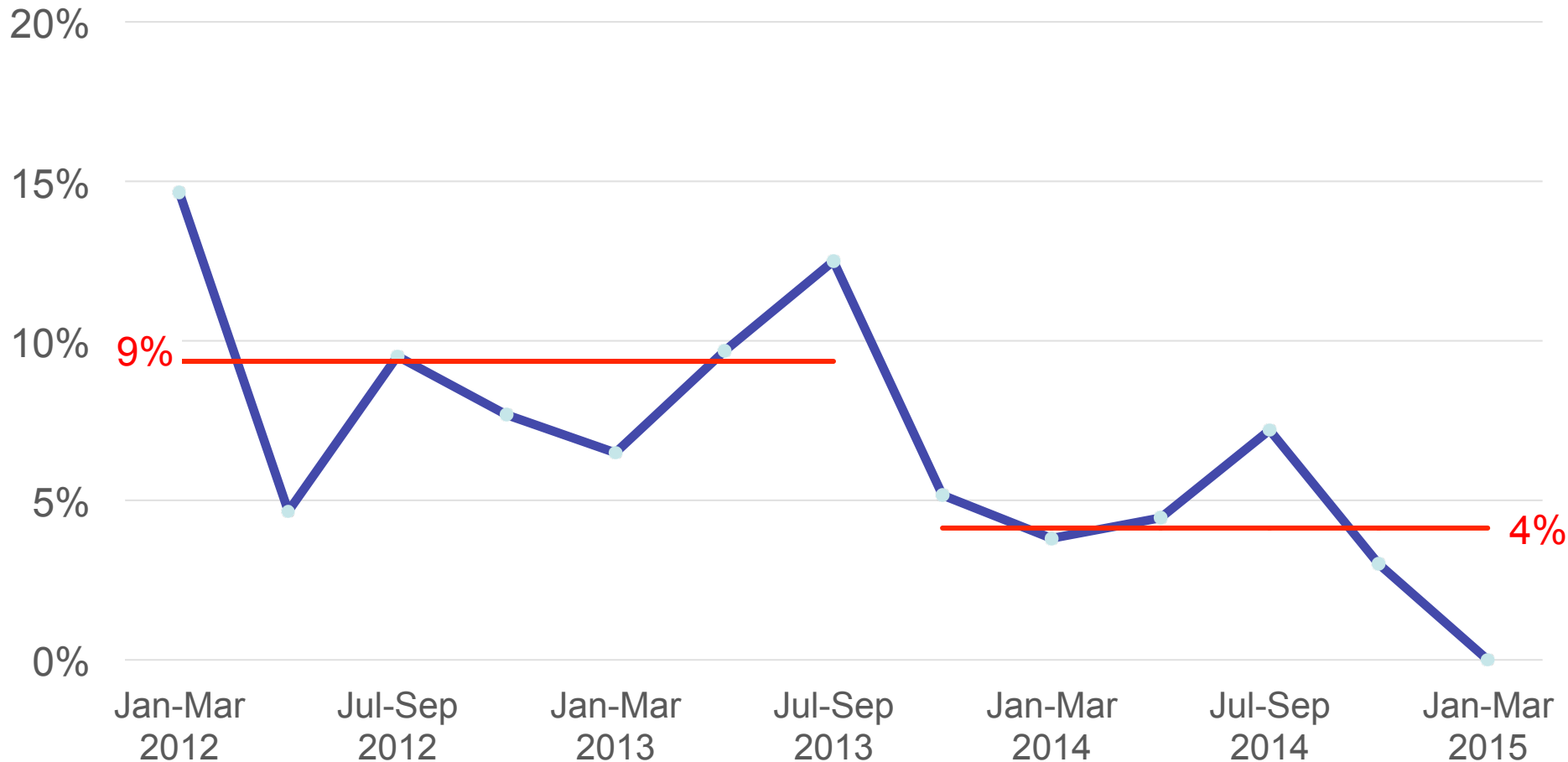


NACS and exclusive breastfeeding



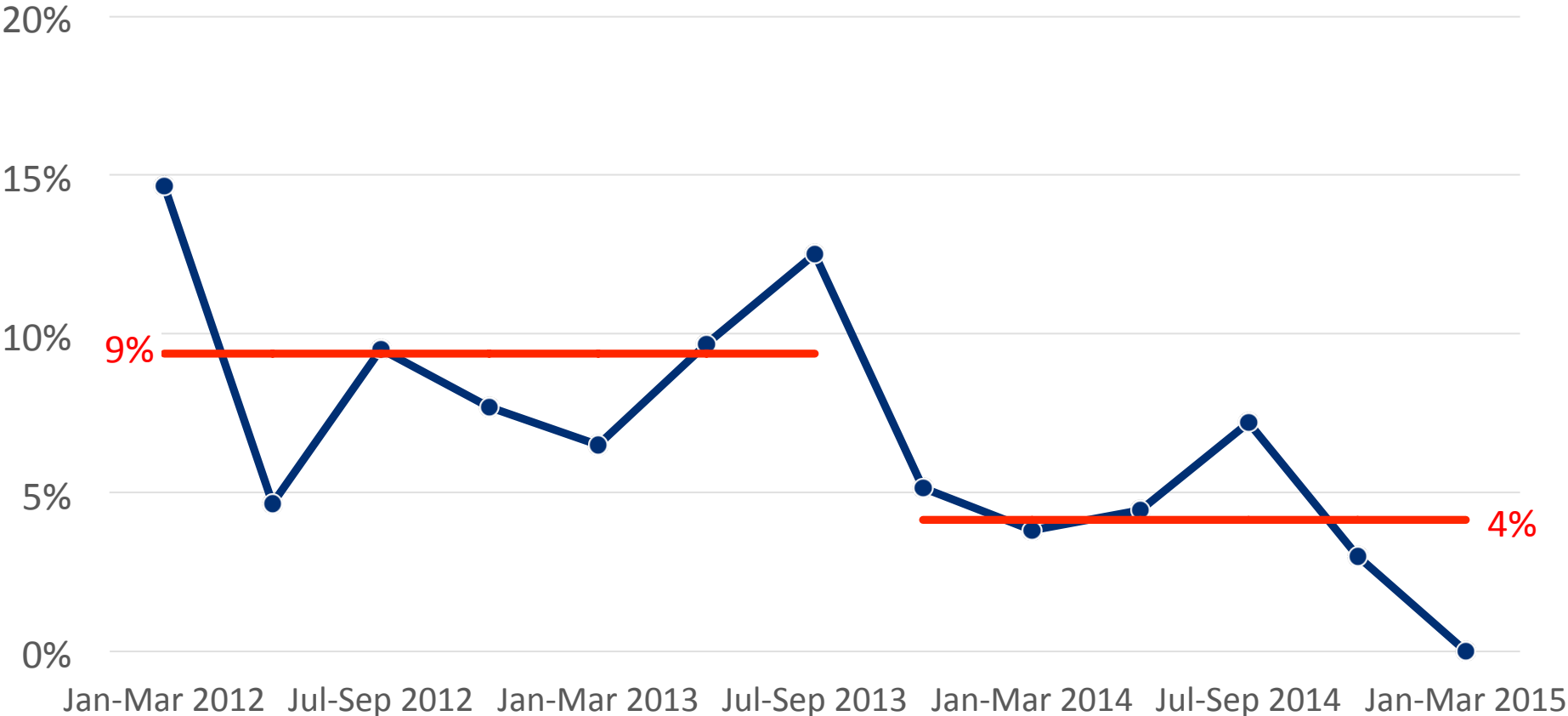
Mother-to-child HIV transmission in 16 facilities in Kwale County, Kenya at 6 weeks (DNA-PCR)

Percentage of HIV-exposed infants who test positive on a DNA PCR test



Mother-to-child HIV transmission in Kwale County, Kenya at 6 weeks (DNA-PCR)

Percentage of HIV-exposed infants who test positive on a DNA PCR test
And **average percentage from Jan 2012-Sept 2013 vs Oct 2013-Mar 2015**



Work improvement team meetings



Waa



Ng'ombeni

Conclusion

- **System wide efforts to Integrate care of mothers and their babies are key to improving their retention in care and quality of the care they receive.**
- **Manual registers or EMR both applicable.**



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[**https://www.usaidassist.org/
partnership-hiv-free-survival**](https://www.usaidassist.org/partnership-hiv-free-survival)

[**ichome@urc-chs.com**](mailto:ichome@urc-chs.com)
[**isachome@gmail.com**](mailto:isachome@gmail.com)