Pre-post assessment of PMTCT in Kouga LSA

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CDC/PEPFAR award: "Programme to Improve Capacity of an Indigenous Statutory Institution to Enhance M&E of HIV/AIDS in RSASRC Social science that makes a difference

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Presentation Overview

- Background
- Baseline assessment: Missed Opportunities in Kouga LSA
- Goals to address missed opportunities
- Interventions
- Methods
- Results
- Key improvements
- Key issues emerging
- Conclusion



Background

UNAIDS, 2005/2008:

- 38 000 children in South Africa acquired HIV infection at birth
- 26 000 children infected with HIV through breastfeeding
- Globally only 9% of HIV pregnant women were receiving ARVs
- By December 2005, PMTCT program had been implemented in 77% of SA public health facilities
- Large portion of pregnant women still do not receive an HIV test during pregnancy
- < <50% of pregnant women known to be HIV+ receive NVP at the time of delivery.
- Need for improved coverage and PMTCT strengthening



		National Strategic Plan on HIV & AIDS and STIs: 2007 – 2011	/
VIAIDS		(DoH, 2007) Priority area 1: Reduce HIV incidence rate by 50% by 2011	
	Goal 1:	Reduce vulnerability to HIV infection & the impact of AIDS	
I Aspect of HI and Health	Goal 2:	Reduce sexual transmission of HIV	
Social A	Goal 3:	Reduce mother-to-child transmission of HIV	
So	Goal 4:	Minimise the risk of HIV transmission through blood and blood products	HSRC fuman Sciences

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Baseline Assessment: Missed Opportunities in Kouga LSA

Rispel, L.C., Peltzer, K., Phaswana-Mafuya, N., Metcalf, C.A., & Treger, L. 2009. Assessing missed opportunities for PMTCT in the Kouga LSA, EC. SAMJ, 99 (3): 174-179

- 1. 74% were offered HIV Counseling & Testing
- 2. Only 43% had been tested for HIV at pregnancy
- 3. Only 40% were aware of PMTCT program
- 4. Only 19% had been given NVP at 28 weeks
- 5. Only 53% received FP Counseling
- 6. 27% incorrectly believed that an HIV+ woman would always infect her baby
- 7. Discrepancies between DHIS and clinic records



Goals to address missed opportunities in Kouga LSA

- Strengthening PMTCT in existing sites in Kouga LSA
- Training health workers in PMTCT/VCT
- Increase # of pregnant women who receive confidential HIV counseling and testing (CT) and receive their results
- Increase # of pregnant women provided with a complete course of NVP
- Monitor # of children who become infected with HIV during the first year of life
- Increase # of eligible women of childbearing age enrolled in wellness programs and/or treatment programs
- Strengthening M&E System

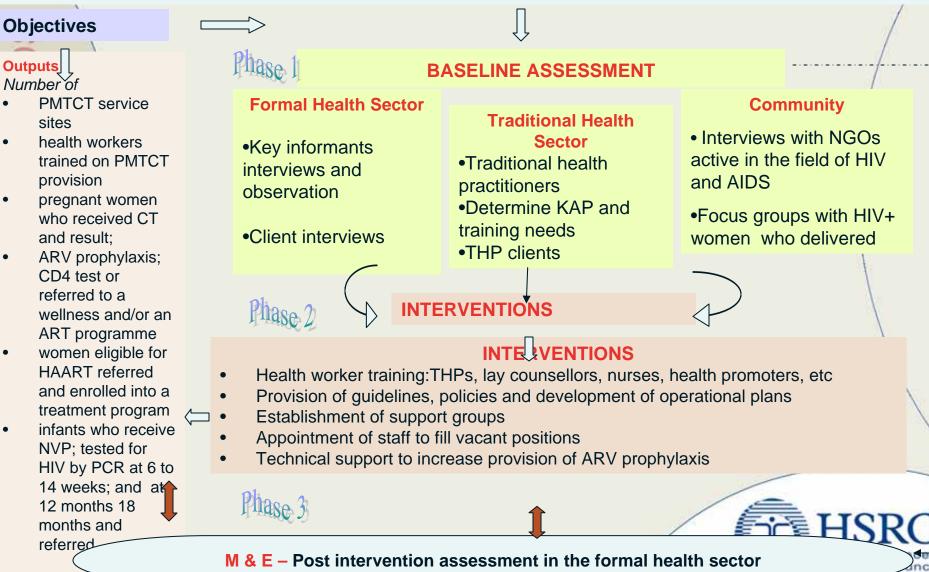
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Interventions

GOAL: Strengthen programmes to prevent HIV transmission from mother to child in Kouga LSA of the Eastern Cape Province



Methods

- This paper focuses on PMTCT pre-post assessment in as far as formal sector is concerned (interviews with clinic managers and PMTCT clients – ANCs/PNCs
- Pre-post results for Lay counsellors, support group members and traditional healers are not included
- A pre-post design was used employing structured questionnaires for:
- Health service assessment:

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- pre 20 clinics/post -22 clinics
- PMTCT programme coordinator or clinic manager at each PMTCT site was interviewed
- Exit interviews had purposive samples:
 - pre 296 ANCs/ post 239 ANCs;
 - pre 70 HIV+ PNCs; post 142 HIV+ PNCs









Improvements in compliance to national PMTCT criteria were observed: n=20/n=22

	Pre test %	Post test %
On-site counseling for HIV testing	18(100)	22(100)
On-site HIV testing	17(94)	22(100)
Private room in which VCT can be conducted	17(94)	14(64)
Daily availability of VCT	16(89)	22(100)
Referral to an ART site	18(100)	22(100)
CD4 count testing	17(94)	22(100)
NVP given to HIV+ pregnant women at 28 weeks	17(94)	22(100)
NVP given to neonates within 72 hours of birth	5(28)	2(9)
Antenatal counseling on infant feeding	15(83)	22(100)
Postnatal counseling and support for infant feeding	15(89)	22(100)
Adequate supply of free infant formula	10(63)	20 (91)
PCR testing for infants for HIV infection	13(72)	22(100)
2 health workers trained in PMTCT per facility	7(41)	15(68)
A support group specific to HIV+ and pregnant women	6(35)	
		<u>15(6</u> 8)







No significant changes were observed in access to health care facility

Transport mode	Pre N (%)	Post N (%)
	(n=296)	(n=239)
Walking	256 (86.6)	222 (92.9)
Taxi	23 (7.8)	11 (4.6)
Friend/family member's transport	16 (5.4)	4 (1.7)
Time to clinic		
< ½ hour	260 (87.8)	202 (84.5)
¹ /2 to 1 hour	29 (9.8)	31 (13)
> 1 hour	7 (2.4)	6 (2.5)
In labour during the day	292 (98.6)	231 (96.6)
In labour at night	285 (96.3)	232 (97.1)
Would use ambulance during the day to health care facility	271 (91.6)	202 (84.5)
Would use ambulance at night to health care facility	257 (86.8)	197 (82.4)
About 1 hour to get to health care facility during the day	168 (56.7)	118 (49.5)
About 1 hour to get to health care facility during the night	160 (54.2)	110 (46)

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Significant decline in the proportion of women who were

delivered by a doctor

	Pre: N (% (n=296)) Post: N (%) (n=239)
Items	N (%)	N (%)
Place of delivery		
Hospital	170 (93.4)	135 (90.6)
At home	12 (6.6)	14 (9.4)
Person who delivered previous baby		
Doctor	70 (38.3)	35 (23.6)*
Midwife	89 (48.6)	102 (69.4
TBA	3 (1.6)	2 (1.4)
Family member	3 (1.6)	6 (4.1)
Other	18 (9.8)	2 (1.4)
Intention to give birth at hospital/clinic	291 (98.3)	235 (99.2)

*p<0.005



Significant increase in # of women who were tested for HIV during the previous pregnancy, who knew HIV test results and HIV counseling <30 min

	Pre: N (%)	Post: N (%)
	(n=296)	(n=239)
HIV testing during last pregnancy	N (%)	N (%)
Tested for HIV during last pregnancy	79 (27.0)	98 (66.7)*
Knew the results of HIV test during las pregnancy	<i>t</i> 79 (27.0)	98 (66.7)*
How long did the nurse (or other staff) talk to you during the HIV counseling?		
<1/2 hour	174(58.7)	71 (33.4)*
¹ /2 - 1 hour	20(13.4)	135 (63.4)
1-2 hours	6(2.0)	4 (1.9)
> 2 hours	1(0.3)	3 (1.4)
Offered HIV counseling upon arrival	217 (73.6)	227 (95.4)

* p<0.000



Significant differences were observed regarding educating the community about available health services and HIV/AIDS counselling and reducing waiting time

	Pre N (%)	Post N (%)
Spent less than one hour for an ANC visit	(n=296)	(n=239)
The amount of time spent was reasonable	186 (62.8)	123 (51.5)
Would come back to this facility for care	294 (99.3)	222 (92.9)
The reasons why they would come back to facility were:		
No alternative facility	156 (52.6)	39 (16.4)
The nursing staff are friendly and kind	106 (35.8)	27 (11.3)
Increase number of staff including doctors, nurses and counselors	95 (33.2)	57 (23.8)
Educate community about the available health services and HIV/AIDS counseling	35 (12.2)	2 (0.8)*
Increase number of ambulances available	19 (6.6)	8 (3.2)
Extension of service hours at the clinic	13 (4.5)	0
Reduce waiting time	13 (4.5)	33 (13.8)*
Extension of the clinic/ hospital buildings	7 (2.4)	8 (3.2)
Improve privacy	4 (1.4)	3 (.0)

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Significant increase in # number of women who were aware of the PMTCT programme at post assessment

	Pre N (%)	Post N (%)
	(n = 70)	(n = 142)
Have you heard about the PMTCT program?	28 (40.0)	112 (77.8)*
If so, where did you hear about it?		
At the clinic	24 (34.3)	111 (92.5)
At the hospital	1 (1.4)	6 (5.0)
Other (Radio/community)		3 (2.5)
Can an HIV-positive mother infect her bab with HIV during pregnancy?	y 37(54.4)	153(69.9)
Can an HIV-positive mother infect her bab with HIV during delivery?	y43(63.2)	159(72.6)

*p<0.001

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Significantly more women felt relaxed about pre-test

counselling at post assessment

	Pre N (%)	Post N (%)
	(n = 70)	(n = 142)
Experience/Feelings about HIV pre-test ounseling	;	
Nervous	41 (58.6)	67 (49.3)
Relaxed	21 (30.0)	65 (47.8)*
Never received HIV pre-test counseling	8 (11.4)	4 (2.9)
Experience/Feelings about HIV post-test counseling		
Miserable	29 (41.4)	34 (26.8)
Confident/good	23 (32.8)	54 (42.5)
Did not want to accept the result	5 (7.4)	2 (1.5)
Accepted the situation with little panic	7 (10.0)	5 (3.9)
Never received post-test counseling	6 (8.5)	17 (13.4)
*p=0.001 Social science that makes a different	ance	M

The proportion of women who disclosed their status to someone did not seem to improve

	Pre N (%)	Post: N (%)
	(n = 70)	(n = 142)
Had disclosed their HIV-test result to someone	63 (92.6)	118 (84.3)
Person who they had disclosed to:		
Partner/Husband	32 (50.8)	77 (30.9)
Mother	11 (17.5)	43 (17.3)
Sister	5 (7.9)	40 (16.1)
Other family members	5 (7.9)	51 (20.5)
Friends	6 (9.5)	26 (10.4)
Other (specify)	4 (6.3)	4 (1.6)
Experience following disclosure		
Relieved	47 (67.1)	68 (62.9)
Devastated	12 (17.1)	30 (27.7)
Nothing	5 (7.1)	4 (3.7)
Had not disclosed their HIV status to anybody	6 (8.5)	6 (5.5)

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A health facility was the preferred place of delivery. Most deliveries were done by nurses but significant differences were not observed

	Pre N (%)	Post N (%)	
	(n = 70)	(n = 142)	
Place of delivery			
Home or another person's home	1 (1.4)	10 (7.1)	
Health facility	66 (94.3)	131 (92.9)	
Other	3 (4.3)	0 (0.0)	
Person who assisted with the delivery of baby			
Doctor	14 (20.3)	33 (23.4)	
Nurse/midwife	54 (78.3)	95 (67.4)	
Other	1 (1.4)	13 (9,2)	
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No significant differences were observed on NVP intake

Items	N (%)	N (%)] /
	(n = 70)	(n = 142)	
Whether provided with a drug to prevent mother to child transmission of HIV	t60 (88.2)	125 (89.3)	
Whether partner/husband informed that drug must be taken	41 (66.1)	96 (74.4)	
When did you take (or were given) the drug?	N (%)	N (%)	
Before labour began	50 (82.0)	97 (77.0)	
Onset of labour	10 (16.4)	25 (19.8)	
When baby was born	1 (1.6)	3 (2.4)	
Did this baby receive a syrup medicine within	51 (77.3)	127 (90.7)	
3 days after s/he was born to prevent mother to child transmission?	•		
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No significant differences observed on infant feeding

Whether infant feeding options given during counseling	gN (%)	N (%)	
	(n = 70)	(n = 142)	
No, not offered	9 (12.8)	6 (4.8)	
Yes, Formula exclusively	18 (25.7)		
Yes, Breastfeeding exclusively	41 (58.6)		
Yes, cup feeding only	2 (2.6)		
Reported feeding option practiced	N(%)		
Exclusive breastfeeding	15 (21.4)	20 (14.3)	
Exclusive formula feed (bottle with nipple)	57 (82.6)	120 (85.7)	
Mixed feeding (breast feeding & plain water of other liquids or solid or mushy food)?	r1 (1.5)	7(5)	
		6	
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Awareness of of VCT before coming increased significantly

Pre N (%)	Post N (%)
(n = 70)	(n = 142)
186 (63.1)	174 (72.8)*
217 (73.6)	
Not asked	149 (101)
Not asked	32 (24)
98 (33.1)	123 (51.7)
186 (62.8)	103 (43.3)
12 (4.1)	12 (5.0)
	(n = 70) 186 (63.1) 217 (73.6) Not asked Not asked 98 (33.1) 186 (62.8)

Key Improvements

- Clinics' compliance to national PMTCT criteria
- Delivery and counseling experiences improved
- Increase in # of women tested for HIV in previous pregnancy
- Increase in # of women who knew HIV test results
- Improved awareness of PMTCT/VCT and HIV/AIDS services



Key issues emerging

- Access to health care (mode of transport, time to clinic)
- Disclosure (spouse, relative, friend)
- Waiting time to be reduced
- Infant feeding Practices
- NVP given to pregnant women at onset of labour and within 3 days of birth
- Counselling time

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Conclusion

 After approximately 12 months of PMTCT strengthening activities in Kouga LSA, our results demonstrate the feasibility of implementing PMTCT interventions in a rural and relatively remote setting in South Africa.

- More research is needed to address key emerging issues
- The lessons learnt from strengthening PMTCT programme may contribute to the design of the national expansion strategy for PMTCT in South Africa and elsewhere.



Learning from the EC: Environmental friendly transport.....little pollution



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