

Demand-side Barriers and Opportunities for Uptake of Pediatric HIV Testing and Care

Gretchen Bachman

PEPFAR/USAID

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PMTCT, Pediatric Testing and Care Coverage

- Coverage Estimates in Low and Middle Income Countries:
 - 53% PMTCT
 - 6% Early Infant Diagnosis
 - 28% Pediatric ART

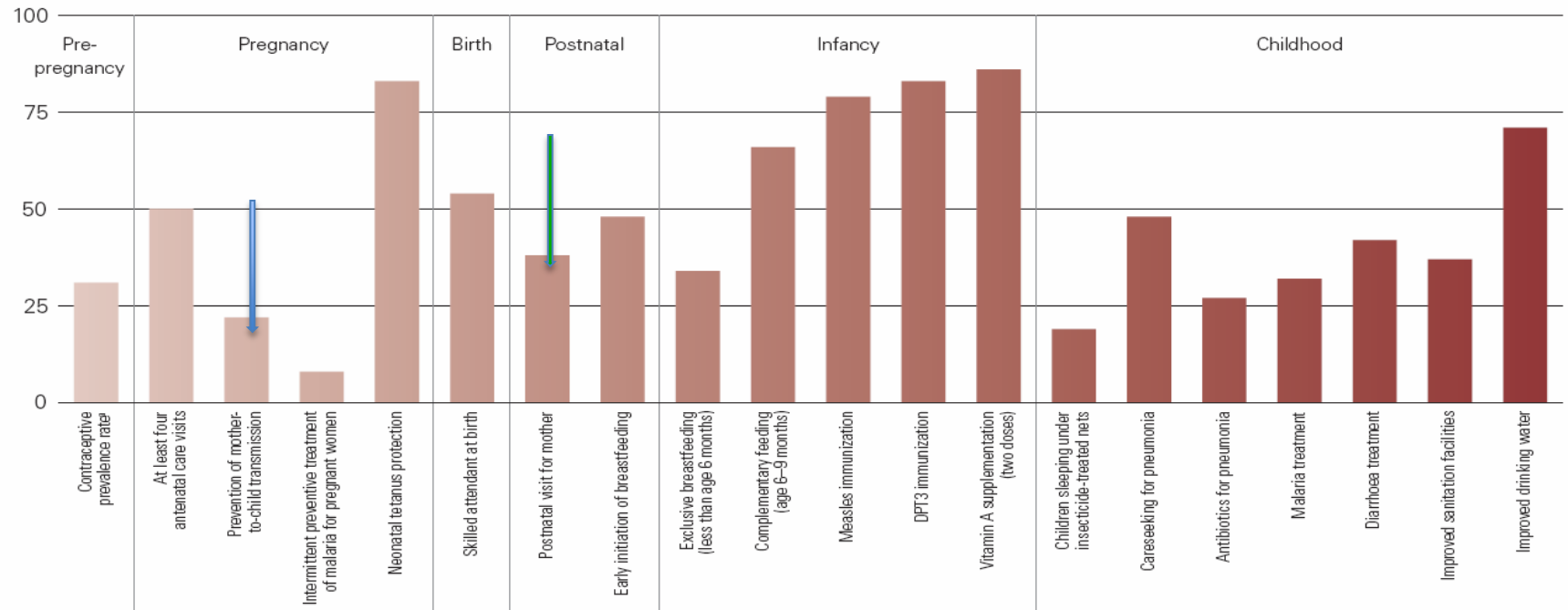
Source: Children and AIDS Fifth Stocktaking Report 2010, UNICEF

Coverage Continuum: MNCH

FIGURE 5

Coverage of interventions varies across the continuum of care

Median national coverage of interventions across the continuum of care for 20 *Countdown* interventions and approaches in *Countdown* countries, most recent year since 2000 (%)



a. Target coverage value is not 100%.

Source: Prevention of mother-to-child transmission of HIV/AIDS, UNICEF, Joint United Nations Programme on HIV/AIDS (UNAIDS) and WHO; immunization rates, WHO and UNICEF; postnatal visit for mother, Saving Newborn Lives analysis of Demographic and Health Surveys; improved water and sanitation, WHO and UNICEF Joint Monitoring Programme 2010; all other indicators, UNICEF Global Databases, November 2009, based on Demographic and Health Surveys, Multiple Indicator Cluster Surveys and other national surveys.

A Demand-Side Perspective

Demand interventions
operate at the:

- individual,
- Household,
- or community level

Supply Interventions
influence health service
actors:

- Health personnel
- Health institutions
- Ministries of health

Reported Obstacles to Uptake of Pediatric HIV Care in urban and rural sites in South Africa (Yeap 2010)

- Qualitative study; 6 private clinics including 3 peri-urban & one rural
- Interviewed 21 (S) Staff & 21 (C) Caregivers of HIV +/-ve children
- Obstacles reported:
 - Food, transport & related treatment (Opportunistic inf.) costs (S,C)
 - Difficulty accessing welfare grants
 - Multiple caregivers, non disclosure to secondary carers (S)
 - Lack knowledge on treatment benefits (S)
 - Fear of rejection/stigma (C)
 - Labelling clinics as “HIV specific” a deterrent (S)

Reported Obstacles to Uptake of Pediatric HIV Care in urban and rural sites in S Africa (cont.)

- Client Misconceptions reported:
 - Belief that testing speeds death; ART makes people sicker (S)
 - PMTCT fully protective (S, C)
 - An HIV-+ve child must be symptomatic (S,C)
 - HIV is only sexually transmitted (S)

Rural - Predictors of EID Uptake in Mozambique (Cook 2011)

Results

- 443 Mother-Infant pairs in PMTCT
- 217 Mothers enrolled adult ART clinic
- 110 Infants (25%) received EID; median age 5mos

Predictors

- Independent means of maternal income [P <0.001]
- Larger HH size [P <0.001]
- Greater distance from facility > 10 kms [P <0.003]
- Mother on cART [P <0.003]

Rural: Reasons for PMTCT LTFU Uganda (Ahoua 2010)

- N= 567 infants born to 517 HIV positive women enrolled in PMTCT
- Final Outcomes After Tracing - 30% infants LTFU, 18% Died
- Drop out reasons:
 - Lack understanding of FU importance
 - Infant deaths
 - Stigma, lack of partner support (less reported)
- Retention reasons:
 - Occurrence of infant acute illness associated with reduced LFU (<0.0001)
 - If child isn't ill women do not perceive need for FU

Urban: Predictors for Post Natal PMTCT Adherence in Uganda

- Of 289 mothers, only 110 (38%) adhered to PN-PMTCT, significant predictors included
 - 164 Mothers aged > 25
 - Previous post natal attendance (0.018)
 - Phone access (P 0.009)
 - 125 Mothers aged ≤ 25
 - Christianity (P 0.029)

Urban: Motivators for PN PMTCT Adherence in Kampala [FGD]

Table 3. Influences for adherence to the PN-PMTCT program.

Sphere of influence	Motivators for adherence to PN-PMTCT (from the returnees)	Hindrances to adherence to PN-PMTCT (from the non-returnees)
Benefits of postnatal PMTCT program	<p>Child's early HIV diagnosis</p> <p>Enrollment of mother into HIV/AIDS care</p> <p>Interaction with counselors and peer mothers for social support</p> <p>Previous attendance of PMTCT program yielding an HIV negative child</p> <p>Cancer screening and birth control interventions</p>	<p>Fear to learn that child is infected with HIV</p> <p>Lack of clinical symptoms of HIV disease</p>
Access to PN-PMTCT services	<p>Awareness of the services offered for the mother and baby during PN-PMTCT</p> <p>Receiving referral information at discharge</p>	<p>Transport costs to health unit</p> <p>Fear to disclose positive HIV sero-status to the partner</p>
Social support structure	<p>Reminder calls from clinicians</p> <p>Close contact on HAART</p> <p>Men involvement in couple HIV testing with their spouses</p>	<p>Fear of divorce or separation from spouse after disclosure of HIV-positive results</p>

Summary Demand-side Barriers to Uptake

- Transport, food, medical costs
- Lack of knowledge
- Misconceptions
- Fear rejection by partner and other family/friends
- Stigma

Demand-side Opportunities to Uptake

- Reduce/remove associated costs
- Mass Media
- Integration with ECD
- Mobile



The logo for text4baby is enclosed in a pink square border. It features a large, stylized pink letter 'B' on the left, followed by three curved pink lines on the right that resemble a signal or broadcast icon. Below the 'B' and signal icon, the text 'text4baby' is written in a pink, lowercase, sans-serif font, with a small 'SM' trademark symbol to the right.

text BABY to 511411
to receive educational
messages throughout
your pregnancy- texts
are free

Reduce/Remove associated costs (MNCH)

- CCTs to encourage in-facility delivery
 - RCT of India's Janani Suraksha Yojana significant effect on ANC & facility births nationally but poorest, least educated women did not always have highest odds of receiving payments (Lim 2010)
- Transport vouchers
 - Encourage Care for obstetric fistula by sending transport costs via cell phones (USAID 2011)
- Food supplementation
 - In rural Kenya access to a WFP feeding program noted as motivation for follow up to EID (Hassan 2011)

Mass Media

- Using Pubmed and Google Scholar (2000-2011) found 0 articles pertaining to mass media *and* promoting uptake of EID, Pediatric HIV care
- Comminit (website) – 1 study - women who spontaneously named a PMTCT character in radio drama as favorite character nearly twice as likely to test for HIV during pregnancy as those who did not (Kuhlmann 2008)
- Role to improve knowledge and reduce misconceptions...but which messages resonate? Which media most likely to reach rural poor?

Integration with Early Child Development

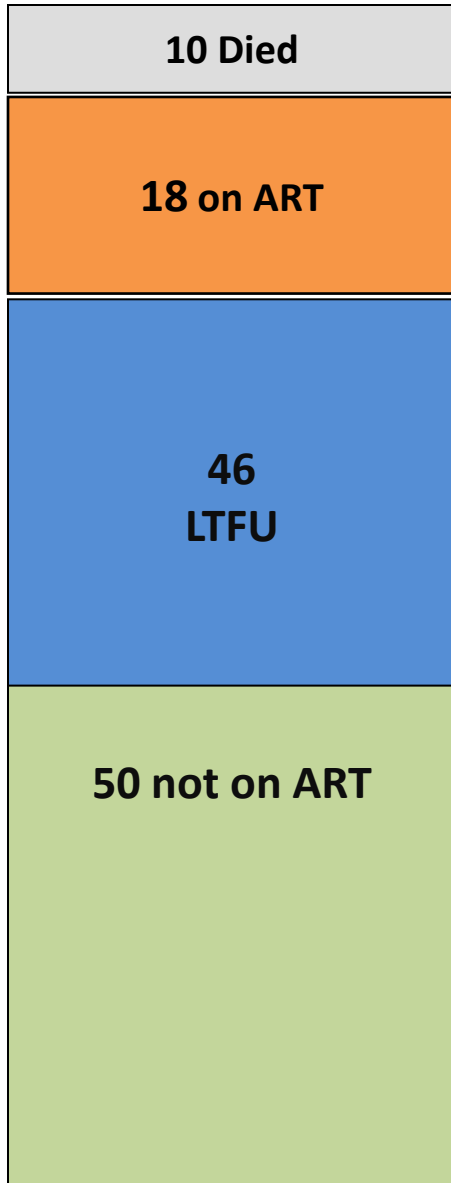
- Longer time horizon (age 0-7) – bridges health to school gap
- Socially integrated (not HIV exclusive)
- Holistic focus on cognitive, physical and emotional development
- Emphasis on positive parenting, hygiene and nutritional education and support
- Opportunity for early detection of health and broader developmental problems
- Opportunity for adherence support
- Day care/respice care for working mothers; elderly carers
- Can be provided with other interventions such as microsavings (Care Intl. Kenya)

Mobile

- SMS Adherence messages
 - Adults receiving SMS messages had improved ART adherence & viral suppression rates compared to control group in Kenya (Lester 2010)
 - Adherence (relative risk [RR] for non-adherence 0.81, 95% CI; p=0.006)
 - VL (RR for virologic failure 0.84, 95% CI; p=0.04)
- “Please Call Me” to encourage TB & HIV testing
 - In pilot phase resulted in tripled calls to Natl AIDS Hotline in RSA (Leach Lemens 2009)

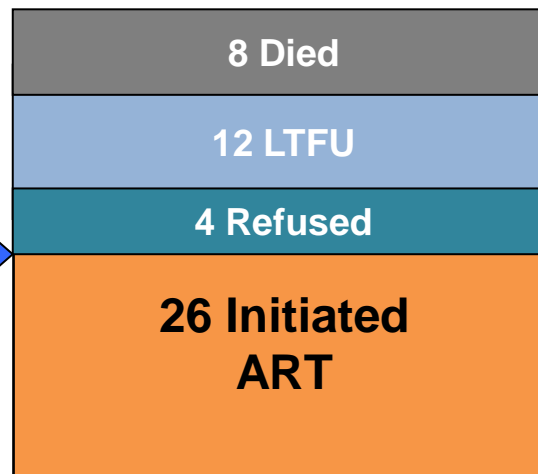
Provider Phone Call Follow Up Post EID in Swaziland

124



Contacted

50



44

35% of Infants on ART

Phone calls more effective than chart flagging
Staff invested significant time in calling patients
Many clients had incorrect information recorded
Total 47% of Infants LTFU after Tracing

Women & Mobile Phone Access (GSMA 2010)

- Ownership twice as likely among urban women vs. rural; in Africa female ownership is 23% less likely than male
- Mobile Phone Use Among Women at “Bottom of Pyramid” (HH income >\$75 monthly; aged 14-74; rural and urban)
 - 26% own a phone and of these 54% pay for their own service
 - “Over half” borrow others phones usually family member
- Women who borrow a phone
 - Don’t have privacy
 - Use less and may miss important messages and texts

Summary Demand-side Opportunities

- **Reduce/remove associated costs** - Evidence exists for CCT...less for other such as transport vouchers, food supplements
- **Mass Media** – few (no?) good studies demonstrating influence in regard to uptake of pediatric HIV testing and care; need formative research - which messages resonate with women and their partners?
- **Integration with ECD** – need to better understand demand - what array of services work?
- **Mobile** – promising but coverage across rural poor women presents big challenges needs to considerably improve

Thank You

gbachman@usaid.gov