Expected & actual MTCT rates in Botswana

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Botswana infant testing data

- Early infant diagnosis program since 2005
- Data not too hard to interpret because almost no HIV-infected women breastfeed
- Most current data 2008-9
  - 8926 infants tested out of ~13,000 exposed infants born (68%)
  - Median age of testing is 8 weeks
  - 90% of tests are “first test for healthy baby of an HIV-infected mother”
  - Of all tested infants, 3.2% HIV-infected
  - Of all infants tested <8 weeks, 2.7% HIV-infected

PMTCT regimen performance in Botswana women compared to clinical trial subjects

Regimen	Reference	MTCT rate in the literature	MTCT rate in EID dataset (self-report + infant card)
None	Thai Shaffer 1999 CHAI meta-analysis	18.9% 16.7%	24%
AZT <4 weeks + NVP	DITRAME Plus 2005	6.5%	5%
AZT 4-12+ weeks	PACTG 076 Thai Lallemant 2004	8.6% 6.5%	3.2%
AZT >4 weeks + NVP	Thai Lallemant 2004 CHAI meta-analysis	1.9% 6.5%	2.3%
HAART started during pregnancy	Kesho Bora MTCT-Plus initiative KIBS CHAI meta-analysis	3.7% 2.2% 4.3% 1.8%	1.1%
HAART started before pregnancy	US data	<1%	0.3%

Projected total MTCT in Botswana 2008-9

Regimen	Women actually receiving this regimen	MTCT rate in EID dataset	Expected infections
None/minimal*	1270	24%	305
Maternal AZT	8693	2.9%	252
Maternal ART	3571	0.5%	18
Total	13534		575 (4.2%)

* Some of these women may have received a minimal PMTCT regimen, such as SD-NVP, infant drugs only, or formula only – cannot be determined from national data