

PMTCT of HIV in Brazil

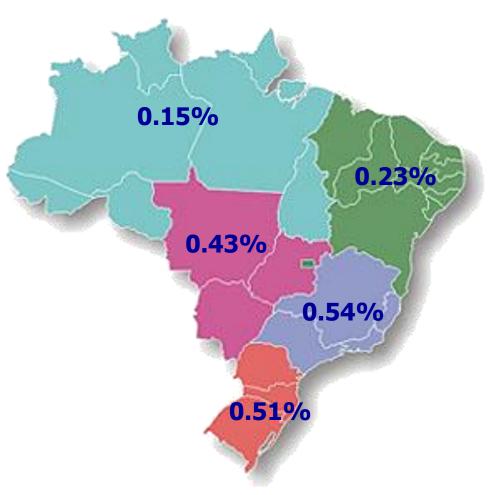
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AIDS in Brazil, 2010: 608,230 registered cases

Pregnant Women: Seroprevalence of HIV



Incidence Rate: 17.9/100.000 inhab.

North: 20.6

Northeast: 12.6

Central-West: 15.7

Southeast: 17.6

South: 28.8



HIV infections: some indicators

Estimation of HIV-infected population

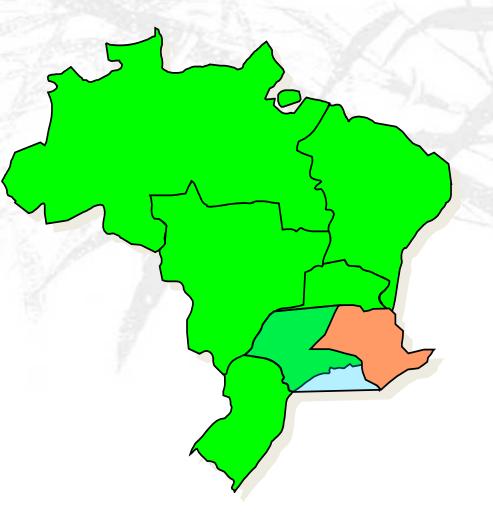
(2006): **630,000***

- Prevalence of HIV infection (2006):**
 - •0.61% of the population (15 to 49 years)
 - women 0.42%
 - men 0.82%

^{*} Preliminary data

^{**} Source: MOH: Sentinel surveillance study, 2006.

NOTIFIED CASES OF AIDS, 1980 - 2011, SAO PAULO



- Cumulative reported cases (1980-Jun/2011): 212,551 (2009 - 8,754)
- Incidence rate (per 100,000 people): 21.4 (2009)
 - **Mortality rate** (per 100,000 people): **7.9** (2009)

FONTE: State Program of STD/AIDS, São Paulo, 30/06/11

Coverage (%) of HIV Test at ANC, by region, Brazil, 2006

	North	Northeast	Southeast	South	C-West	Brazil
Without ANC	8.4	5.4	3.5	2.6	2.0	4.1
ANC, without test	42.4	45.4	11.0	5.7	7.5	21.0
ANC, pregnant refused test	1.1	8.8	2.1	0.6	0.6	3.4
ANC, unknown result	12.9	9.1	7.4	12.7	6.2	9.0
Total coverage	35.3	31.3	76.0	78.3	83.7	62.5





Ministério da **Saúde**



Fonte: Estudo-Sentinela Parturiente, 2004 - Elaborado por C.L. Szwarcwald, 2005

Registered Cases: pregnant women with HIV, Sao Paulo, 2000 to 2009

91,6%



Diagnosis of HIV:

. before ANC 53.8%

. during ANC 31.6%

. at birth 6.2%

. after birth 2.4%

unknown 6.0%

. ARV in ANC 79.2%

. Cesarean section 57.1%

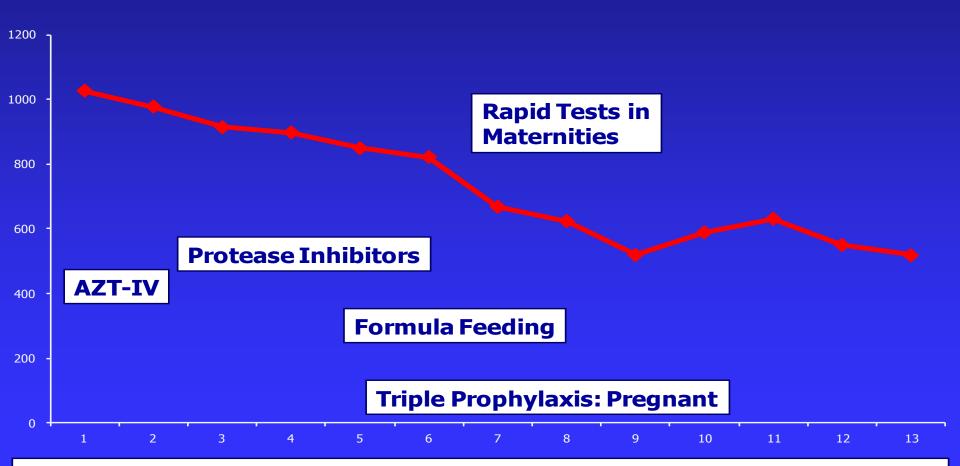
. ARV at delivery 71.0%

. AZT child 89.3%

. Breastfeeding 3.4%

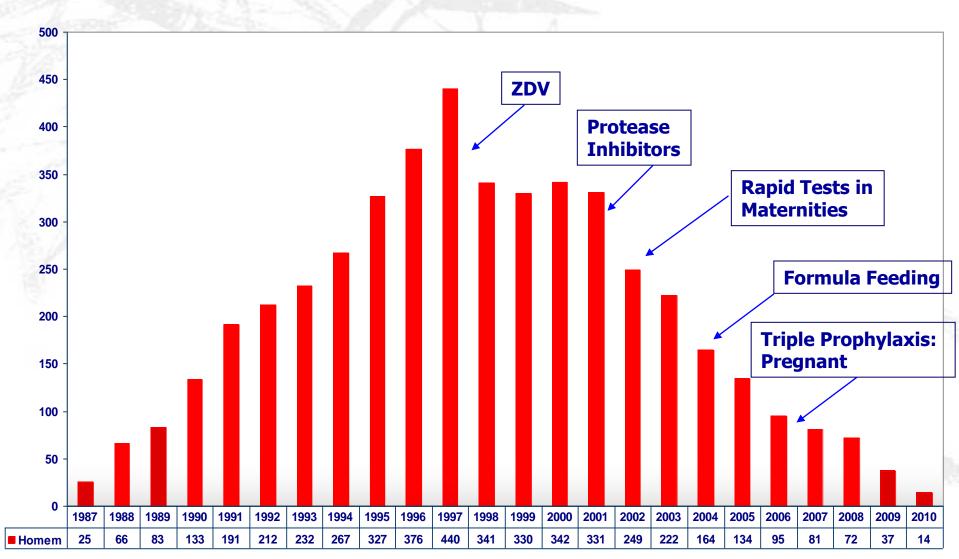


Notified Cases MTCT of HIV, by diagnostic year, Brazil - 1994 to 2010 (06/11)



2009 - ART: to infants under 12 months of age with confirmed HIV infection

Notified Cases of AIDS, by MTCT, São Paulo, 1987 to 2011 (06/11)

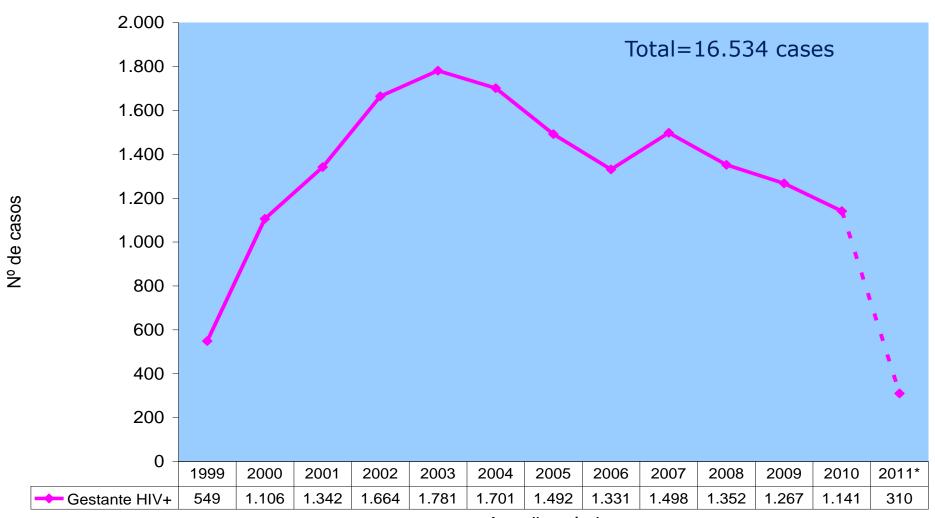


Fonte: PE-DST/AIDS-SP

Dados preliminares, sujeitos a revisão mensal até 30/06/2011

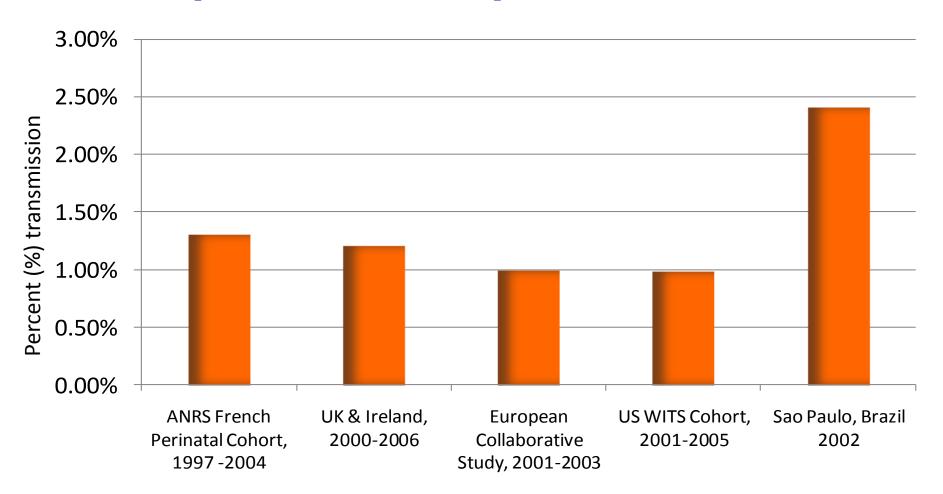


Notified Cases of Pregnant Women with HIV by diagnostic-year, São Paulo, 1999- 2011*



Ano diagnóstico

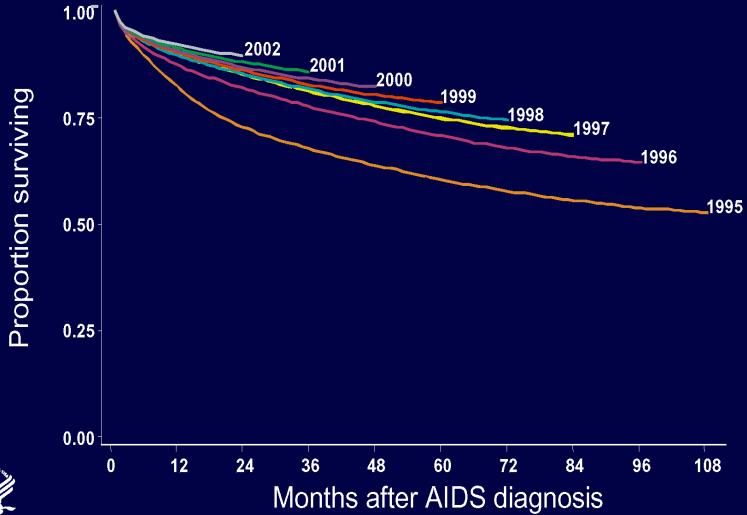
Low rates of vertical transmission reported in Europe, US, Brazil



Warszawski, AIDS 2008; Townsend, AIDS 2008; European Collaborative Study, CID 2005; Katz, JAIDS 2010; Matida, AIDS 2005.

S: Elaine Abrams

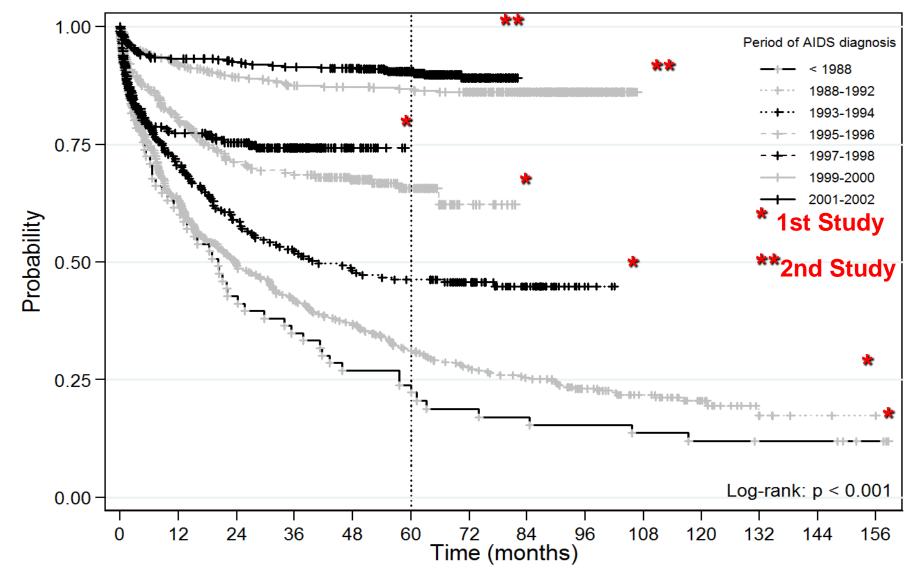
Proportion of Persons Surviving, by Number of Months after AIDS Diagnosis during 1995–2002 and by Year of Diagnosis—United States





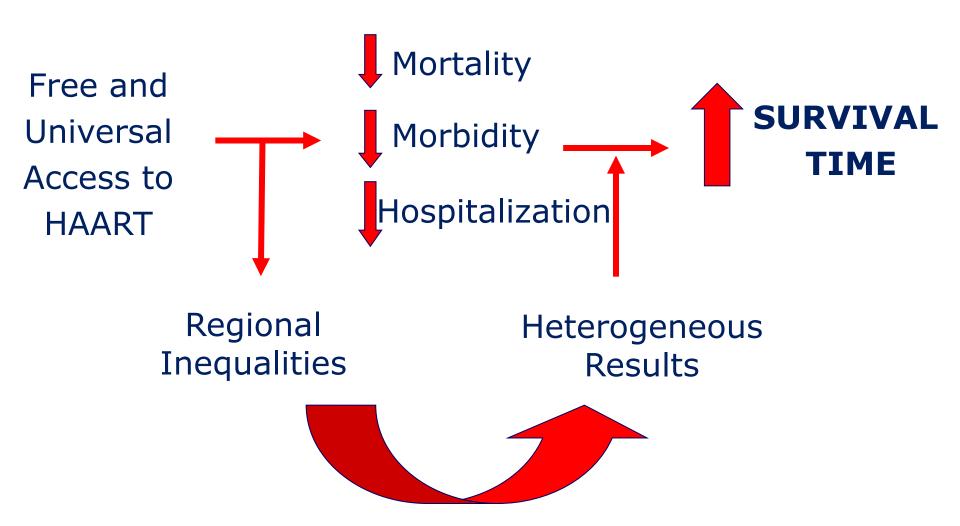


Survival Curve, Children with AIDS, 1988-2002 (~2007), Brazil





Brazil: HAART Impact





- ✓ These results demonstrate the impact of Brazilian policies for children with AIDS.
- ✓ But this achievement creates new challenges related to providing longitudinal comprehensive care and maintaining high quality as well as quantity of survival.



A free and universal access to treatment, even in a country that lacks an ideal health infrastructure, can make a substantial difference in survival. Not surprisingly, the impact is higher in the areas with better infrastructure, but there is some impact everywhere.



Timeline: Strategies for PMTCT of HIV and for children with HIV/AIDS - Brazil

101 Ciliuleii Willi HIV/AIDS - Biazii			
<i>1987</i> —	1st reported pediatric case of AIDS		
1990 —	Prophylaxis against opportunist infections Monotherapy Specialized outpatient facilities (multidisciplinary team)		
1994 —	Implementation of Protocol ACTG076 Brazilian Prophylactic-Therapeutic Guidelines		
<i>1995</i> —	PCR-RNA testing		
<i>1996</i> —	Double therapy		
1997 —	Protease inhibitors Triple therapy		
2001 —	Genotyping Rapid test in maternities		
2002 —	Formula feeding		
2006 —	Triple prophylaxis: Pregnant		
2009	ART: to infants under 12 months of age with confirmed HIV infection		

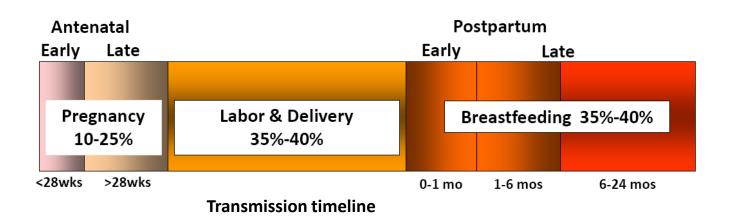


Brazil - 2009: Guideline for Children with HIV

➤ All infants under 12 months of age with confirmed HIV infection should be started on antiretroviral therapy, independent of clinical or immunological stage.

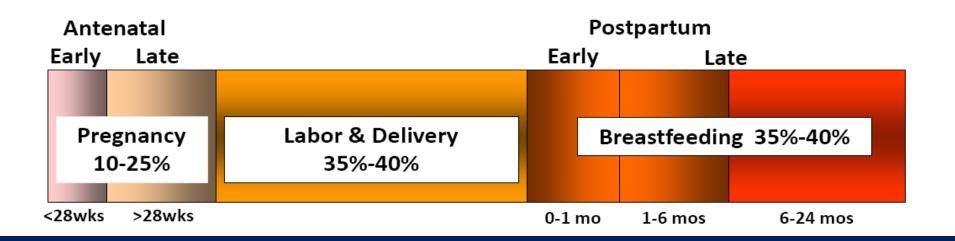


Key concepts in vertical transmission



- Transmission can occur during pregnancy, labor & delivery, and postpartum during breast feeding
- Not all infants born to women living with HIV will acquire HIV infection
 - Estimated risk 25-45% without any intervention





Brazilian recommendations: Replacement feeding for infants and triple ARV prophylaxis for all mothers



ARV Access Program: Major Aspects



- National ARV treatment guidelines (Adults, Children and Pregnant Women)
- National network of HIV/AIDS care services and laboratory support well established
- Injectable ZDV available in hospitals and maternities for PMCT
- > Formula milk available in maternities and specialized services for PMCT
- Social control: strong participation of civil society in decision making and implementation



MTCT of HIV is highly preventable



 Prevention and control measures for mother-tochild transmission of HIV are clear and must be implemented, according local conditions to ensure an effective and sustainable result.



ANC - Opportunities

- To build integrated and sustainable systems that will support HIV, Syphilis and MCH programs, including private area;
- To bring women, men, families into care and treatment.

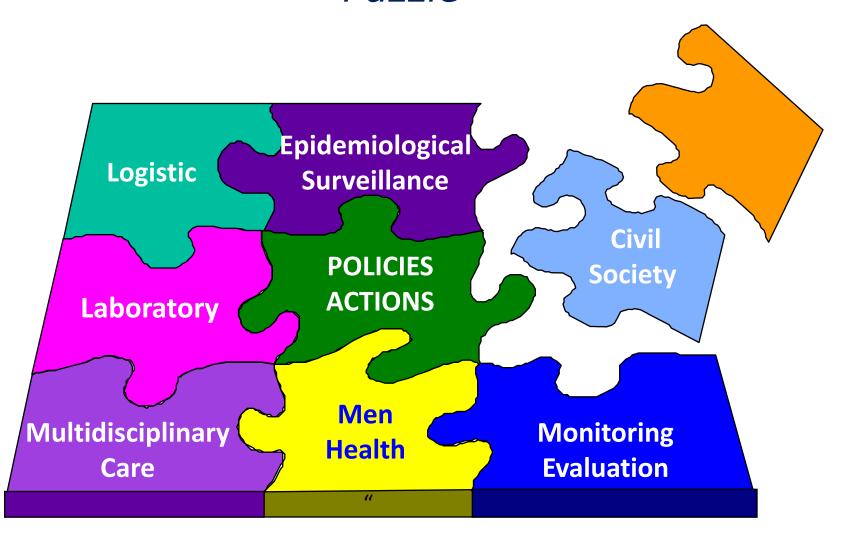


IMPORTANCE OF ANTENATAL CARE

- > reduce high perinatal risk
- > reduce high maternal risk
- major point of access to health care for women, men and families.



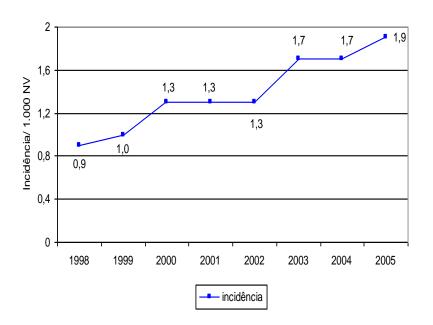
MTCT of HIV and Syphilis: Effective "Puzzle"





Different Results: MTCT of HIV and Syphilis

Incidence of CS, Brazil, 1998-2007



Notified Cases of AIDS, by MTCT, Brazil, 1983-2007





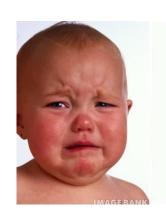


Only ONE CASE of Congenital Syphilis or ONE CASE of

VT of HIV must be considered

as a missed opportunity





Represents a failure in ANC:

- . identification of an infected pregnant woman, or
- . application of prophylatic strategies to decrease this transmission.

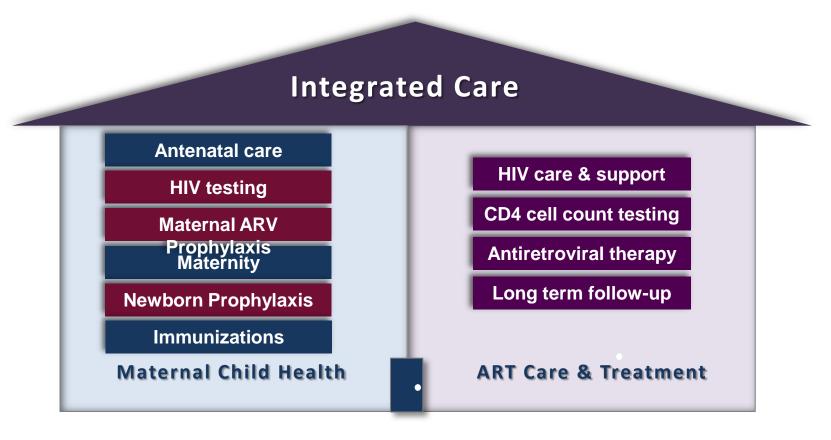
Towards eradication of MTCT in low resource settings



- Access
- Acceptance of testing
- ART for those in need
- Appropriate PMTCT regimen
- Attitude of staff and community
- Advocacy



Comprehensive services for prevention of vertical transmission and HIV care & treatment



Long term priorities for ART for children

- Once daily dosing
- Age-weight appropriate heat stable formulations (sprinkles, dispersible tablets, breakable tablets)
- Fixed dose combination
- Low toxicity profile
- High genetic barrier
- Highly potent
- No drug-drug interactions
- Low cost



Challenges - Adolescents MTCT of HIV

- To deal with HIV Infection
- Transition to Adult Care
- Adherence
- Complications of Therapy
- Engage in Unprotected Sex
- Prevention of Unintended Pregnancies



More challenges

- ✓ The partnership with **primary care programs** to apply the diagnosis and prevention actions;
- ✓ The access to antenatal care for 100% of pregnant
 women, with adequate counseling (VCT);
- ✓ The rapid HIV testing in labor/delivery settings for women
 whose status is still unknown;
- ✓ The effective treatment to HIV-infected women and babies;
- ✓ The effective implementation of Sexual Rights and Reproductive Rights policies (for couple);
- ✓ The regional inequalities in access to care within the country



MORE CHALLENGES



- ✓ The identification of missed prevention opportunities;
- ✓ The causes of prophylaxis failure;
- ✓ The knowledge of potential effects in-utero of antiretroviral exposure;
- ✓ The Surveillance, Monitoring and Evaluation.



Você pode proteger mais do que as suas mãos alcançam.

Faça marcação cerrada e cuide da sua saúde.

A sífilis é uma doença sexualmente transmissível que pode ser evitada com o uso da camisinha.

A sífilis se contraída tem cura.

O tratamento é simples e impede a contaminação da sua parceira.

Previna-se e jogue no time da saúde.

Consulte o serviço de saúde e comemore a vitória de uma vida repleta de saúde.





BECRETARIA DA BACOS





Seu filho é sua maior vitória.

Comemore a saúde dele.

Durante a gravidez, a saúde do seu filho pode ser afetada pela Sífilis, que é uma doença sexualmente transmissível.

Cuide da vida do seu filho. Marque presença no posto de saúde e faça os exames.

O tratamento é fácil rápido e garante a chegada de seu maior campeão.

Mais informações no site www.crt.saude.sp.gov.br







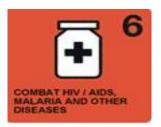




PMTCT: WHO's four-pronged strategy







- Primary prevention of HIV in parents-to-be
- Prevention of unwanted pregnancies
- Prevention of transmission from HIV-infected mother to infant
- Providing appropriate treatment and care





Summary



Antenatal HIV screening



Effective antiretroviral prophylaxis; appropriate obstetric management and formula feeding

Successful HIV Prevention





Goals:

- Generation free of HIV
- •To reduce rate of MTCT of HIV to levels around 2% by 2015





Thank you!! Bedankt!!

www.saude.sp.gov.br/centro-de-referencia-e-treinamento-dstaids-sp

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