

Framework for triple elimination

Progress: adoption of WHO guidance on triple elimination

Progress: Path to Elimination (PTE)





#### Why triple elimination?

Introducing a framework for implementing triple elimination of mother-to-child transmission of HIV, syphilis and hepatitis B virus

Often silent, long latency period & mothers may have no symptoms

Are transmitted
sexually and
vertically

at ANC

Can cause
significant
maternal and
child morbidity
and mortality

Can be identified at ANC & treated to prevent vertical transmission



#### Builds on PMTCT for HIV....

Prevention of HIV among women of reproductive age

Counselling, support, & addressing unmet family planning needs for women living w/HIV

For pregnant women living with HIV, ensure HIV testing and access to antiretroviral drugs

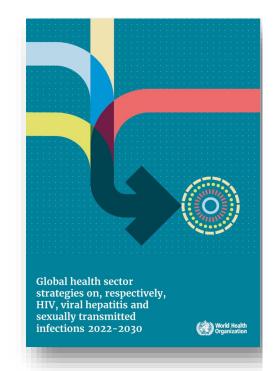
HIV care, treatment and support for women, children living with HIV and their families

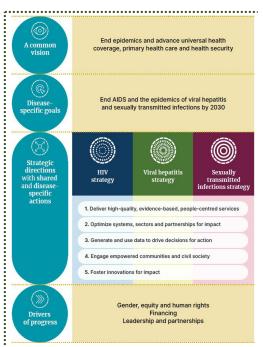
Original 2002 UN promoted

- 'four-prong strategy' for prevention of mother-to-child transmission of HIV
- Was developed prior to widespread implementation of the HIV 'Treat All' strategy.
- Did not include
- interventions for *syphilis or HBV*
- HIV testing services were not included as a prong, but an essential service to initiate PMTCT interventions.



#### Key Principles





- Global Health Sector Strategies on HIV, Viral Hepatitis and STIs
- Encourages countries to simultaneously commit to EMTCT of HIV, syphilis and HBV.
- Advances integrated service delivery.
- Harmonized approach to improving health for mother and children
- Person-centered approach
- Provision of testing, prevention treatment and care services for HIV, syphilis, and HBV
- Success requires collaboration and consultation with all actors
- Framework provides a minimum package of interventions for planning and implementation



#### Framework for the Implementation of Triple Elimination of mother to child transmission of HIV, syphilis and HBV



**Identifying and addressing barriers** 

# Pillar One: Primary Prevention of Vertical Transmission

Focus on all women and girls of childbearing age, whether not pregnant, pregnant or breastfeeding.

**Objective** of this pillar is to **prevent incident** HIV, syphilis and HBV infections in women and girls.

Achieved through delivery of testing services, infection prevention interventions and linkage to appropriate SRH services.





Pillar

01

Primary Prevention of Vertical Transmission

Testing, case finding and primary prevention of HIV, HBV or syphilis infection in non-pregnant, pregnant and breastfeeding women and girls of childbearing age.

Target populations

Non-pregnant, pregnant and breastfeeding women and girls of childbearing age.

- Routine offer of testing services for HIV, HBV and syphilis, including partner services
- Care and treatment for HIV, HBV and syphilis or linkage to care and treatment
- PrEP for HIV-negative women and girls at increased or continued risk of infection; PEP for exposure to HIV
- · HBV vaccination, as appropriate
- · Condoms
- · Linkage to or referral for SRH services

# Pillar Two: SRH Linkages and Integration

Counselling, care, support and linkages to, or provision of SRH care for women and girls living with HIV/HBV/seropositive for syphilis.

Purpose: appropriate pregnancy planning and prevention of unintended pregnancy and to prevent, diagnose and treat other STIs.

Objective ensure women and girls receive, in addition to appropriate treatment for these infections, other SRH care





#### Pillar



Appropriate counselling, care and support and linkages for SRH services for women and girls living with HIV or HBV or sero-positive for syphilis to (i) assess fertility intentions and support pregnancy planning and prevention and (ii) prevent, diagnose and treat STIs.

## Target populations

Women and girls living with HIV or HBV or seropositive for syphilis.

- · Contraception, family planning and condoms
- Prevention, testing and linkage to care for HIV, HBV and syphilis among people seropositive for one condition
- Prevention, screening and treatment for other STIs, with linkage to appropriate care
- Counselling, education and support for healthy living and minimizing infection transmission

# Pillar Three: Essential Maternal EMTCT Services

Focus on the **prevention of MTCT** to infants of pregnant and breastfeeding women and girls living with HIV and / or HBV and / or seropositive for syphilis.

Objective of this pillar is to ensure that people in this target population receive early antenatal testing, appropriate (antenatal, intrapartum and postnatal) care and treatment to prevent MTCT





#### Pillar

03 Essential Maternal EMTCT Services

Appropriate maternal testing, prophylaxis and treatment for pregnant and breastfeeding women and girls living with HIV or HBV or sero-positive for syphilis for prevention of transmission to infants.

## Target populations

Pregnant and breastfeeding women and girls living with HIV, HBV or sero-positive for syphilis.

- Early antenatal testing for HIV, HBV and syphilis;
   catch-up testing where needed
- Third trimester and postnatal re-testing for HIV and linkage to care where indicated
- Treatment initiation and linkage to appropriate prevention, care and other clinical and support services
- Immediate lifelong treatment for HIV
- · Adequate treatment for syphilis
- · HBV prophylaxis or treatment where eligible
- · Routine postpartum care and linkage to SRH services

# Pillar Four: Infant, Child and Partner services

Focus on testing, treatment, care (including immunization and well-child care) and support for exposed infants, infected children, household contacts and partners of women and girls living with HIV/HBV/seropositive for syphilis.

Objectives: 1) interventions for exposed infants and infected children, 2) interventions for household contacts and partners.





#### Pillar



Timely testing, prevention, treatment, care and support for exposed infants, infected children, household contacts and partners of women and girls seropositive for HIV, HBV or syphilis.

### Target populations

Exposed infants, infected infants and children, household contacts and partners of women and girls living with HIV, HBV or sero-positive for syphilis.

- Testing services for neonates and infants exposed to HIV, HBV and syphilis
- · HIV testing services for children past exposure period
- · Universal birth dose of HBV vaccine
- · 3-dose infant HBV vaccination series
- · Postnatal HIV prophylaxis
- Follow-up, treatment and care for infants with HIV and congenital syphilis
- · Routine postnatal pediatric care
- Partner and household testing and prevention, including HBV vaccination, treatment where required and care for HIV, HBV and syphilis
- · Partner and household HBV vaccination

### Resources (Pillar 1)

Pillar 1: Essential service					
•	HIV, syphilis, and HBV testing	•	WHO (2021). Consolidated guidelines on HIV prevention, testing, treatment,		
•	Partner services		service delivery and monitoring: recommendations for a public health		
•	Condoms		approach (24).		
•	Care and treatment for HIV, syphilis, and HBV,	•	WHO (2022). Differentiated and simplified pre-exposure prophylaxis for HIV		
	including linkage to care and treatment		prevention: update to WHO implementation guidance: technical brief (28).		
•	Linkage to or referral for SRH services	•	WHO (2022). Guidelines on long-acting injectable cabotegravir for HIV		
•	PrEP Control of the C		prevention (29).		
•	PEP	•	WHO (2024). Guidelines for HIV post-exposure prophylaxis (30).		
•	Care and treatment for syphilis	•	WHO (2016). WHO guidelines for the treatment of Treponema pallidum		
			(syphilis) (25).		
		•	WHO (2021). Guidelines for the management of symptomatic sexually		
			transmitted infections (27).		
•	Care and treatment for HBV,	•	WHO (2024). Guidelines for the prevention, diagnosis, care and treatment for		
•	HBV vaccination		people with chronic hepatitis B infection (26).		
•	Linkage to or referral for SRH services	•			
•	Harm reduction for women who inject drugs	•	https://www.who.int/publications/m/item/prevention-of-mother-to-child-		
			transmission-of-hiv-hepatitis-b-and-c-and-syphilis		
		•	https://www.who.int/publications/i/item/9789240052390		



#### Resources (Pillar 2)

#### Pillar 2: Essential service

- Prevention, testing and linkage to care for HIV, syphilis and HBV among people seropositive for one or more conditions
- Prevention, screening and treatment for other
   STIs, with linkage to appropriate care
- Contraception, family planning and condoms
- Counselling, education and support for healthy living and minimizing infection transmission

- WHO (2021). <u>Consolidated guidelines on HIV prevention, testing, treatment, service delivery and monitoring: recommendations for a public health approach</u> (24).
- WHO (2024). <u>Guidelines for the prevention, diagnosis, care and treatment for people with chronic hepatitis B infection</u> (26).
- WHO (2024). <u>Factsheet Condoms</u> (32).
- WHO (2017). <u>Consolidated guideline on sexual and reproductive health and rights of women living with HIV</u> (35).
- CCP and WHO (2022). <u>Family Planning: A Global Handbook for Providers</u> (2022 update) (33).
- WHO (2023). <u>Factsheet Family planning/contraception methods</u> (34).
- WHO (2017). Consolidated guideline on sexual and reproductive health and rights of women living with HIV (35).



#### Resources (Pillar 3)

#### Pillar 3: Essential service

- Early antenatal testing for HIV, syphilis, and HBV; catch-up testing where needed
- Third trimester and postnatal re-testing for HIV and linkage to care where indicated
- Treatment initiation and linkage to appropriate prevention, care and other clinical and support services
- a. Immediate lifelong treatment for HIV
- b. Adequate treatment for syphilis
- c. HBV prophylaxis or treatment where eligible
- Routine antenatal, intrapartum, and postnatal care and linkage to SRH services

- WHO (2019). <u>Dual HIV/syphilis rapid diagnostic tests can be used as the</u> first test in antenatal care: policy brief (1).
- WHO (2016). WHO recommendations on antenatal care for a positive pregnancy experience (15).
- WHO (2021). <u>Consolidated guidelines on HIV prevention, testing,</u>
   <u>treatment, service delivery and monitoring: recommendations for a public health approach</u> (24).
- WHO (2024). <u>Guidelines for the prevention, diagnosis, care and treatment</u> for people with chronic hepatitis B infection (26).
- WHO (2023). <u>Laboratory and point-of-care diagnostic testing for sexually transmitted infections, including HIV</u> (36).
- WHO (2017). WHO guideline on syphilis screening and treatment for pregnant women (37).
- WHO (2015), <u>Pregnancy, childbirth, postpartum and newborn care: a</u> guide for essential practice, 3rd edition (38).
- WHO (2018). WHO recommendations on adolescent sexual and reproductive health and rights (39).

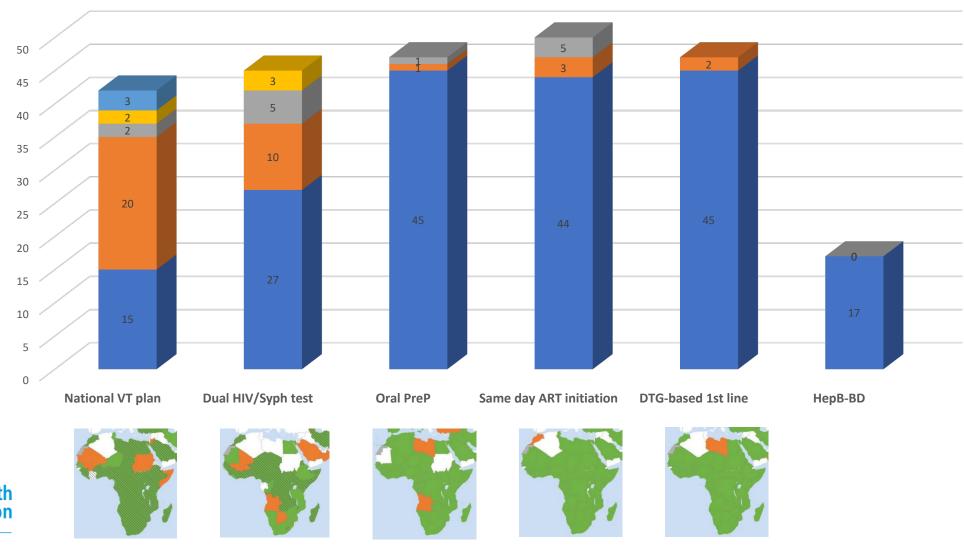


### Resources (Pillar 4)

	Pillar 4: Essential service		
•	Prevention of HBV infection	•	WHO (2017). Hepatitis B vaccines: WHO position paper – July 2017 (40).
•	Post-exposure services for neonates and	•	WHO (2021). Consolidated guidelines on HIV prevention, testing,
	infants		treatment, service delivery and monitoring: recommendations for a public
•	Post-exposure services for neonates and		health approach (24).
	infants exposed to HIV		
•	Post-exposure services for neonates and	•	WHO (2017). WHO guideline on syphilis screening and treatment for
	infants exposed to syphilis:		pregnant women (37).
•	Post-exposure services for neonates and	•	WHO (2024). Guidelines for the prevention, diagnosis, care and treatment
	infants exposed to HBV:		for people with chronic hepatitis B infection (26).



### Adoption of WHO Recommendations...(July 2024)





## Towards validation of triple elimination

	EMTCT of HIV	EMTCT of Syphilis	EMTCT of HBV
2030 Global Health Sector Strategy (GHSS) direct and related targets	'Zero' new infections among infants	≤50 cases of congenital syphilis per 100 000 live births in 80% of countries	95% reduction in incidence of chronic viral hepatitis B infections
IMPACT TARGETS	New paediatric HIV infections  population case rate ≤50 cases per 100  000 live births	A case rate of congenital syphilis of ≤50 per 100 000 live births	<0.1% prevalence* HBsAg in <5-year-olds
Impact criteria must have been met for one year	MTCT rate of HIV of <2% in non- breastfeeding populations OR <5% in breastfeeding populations		In countries using targeted birth dose, an additional impact target of MTCT rate of ≤2%
	ANC coverage (at least one visit) (ANC-1) of ≥95%	ANC coverage (at least one visit)  (ANC-1) of ≥95%	With universal birth dose (BD)  >90% HepB3 vaccine coverage  >90% HepB BD coverage
PROGRAMMATIC TARGETS  Process criteria must have been met for two years	Coverage of HIV testing (pregnant women) of ≥95%  criteria must have	Coverage of syphilis testing of pregnant women of ≥95% (attended at least one ANC visit)  Adequate treatment (syphilis - seropositive pregnant women) of ≥95%	With targeted BD or without universal BD  >90% HepB3 vaccine coverage  >90% HepB BD coverage  >90% coverage of maternal HBsAg testing  >90% coverage with antivirals for eligible

### Path to Elimination (PTE)

#### **Path to Elimination Validation**

**Full Validation** 

BRONZE
90% Coverage\*
Infant Case Rate
750/100K LB
MTCT rate <5%

SILVER
90% Coverage\*
Infant Case Rate
500/100K LB
MTCT <5%

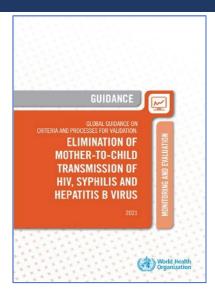
GOLD 95% Coverage\* Infant Case Rate 250/100K LB MTCT <5%

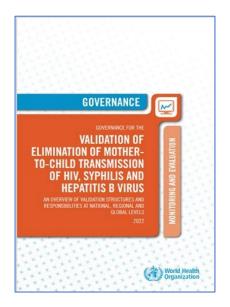


95%
Coverage\*
<50/100k
cases,
MTCT
<5%



## Path to Elimination (PTE)





- For many countries with strong programmes, high ANC prevalence makes it virtually impossible to achieve the case rate criterion for validation (<50 cases per 100,000 live births).
- Qualifying prevalence requirements for PTE indicators & targets for HIV, syphilis, &/or HBV
  - Maternal HIV prevalence >2%
  - Maternal syphilis prevalence >1%
  - HBsAg prevalence >1% among ≤5-year-olds and/or general population prevalence >5%.
- Criteria, Process and Tools
  - Same MTCT rate <5% impact criteria; Same process and tools used for elimination assessment
  - Different infant case rate impact criteria: >50/100,000 live births (from 750-250 LB/100K LB); Different ANC testing and treatment process criteria: advancing from 90% to 95%

### **Progress on Path to Elimination (PTE)**

2023 2024 **New AFRO RVC inaugurated** 2021 Validated: 3rd version of Global Namibia (PTE) guidance includes **EMTCT of HBV** 2017 2nd Edition of 'Orange Book' includes Path to Elimination (PTE) 2025 priorities **Eritrea** Namibia becomes first **Eswatini Botswana becomes** country to be Rwanda first country certified certified for PTE Sao Tome & Principe for PTE of Hepatitis B 2014 **Silver Tier for HIV Validated: Silver Tier EMTCT Guidance** for Hepatitis B and 1st edition of Global **Bronze Tier for HIV** guidance



Global consultation on assessment

and verification tools

