

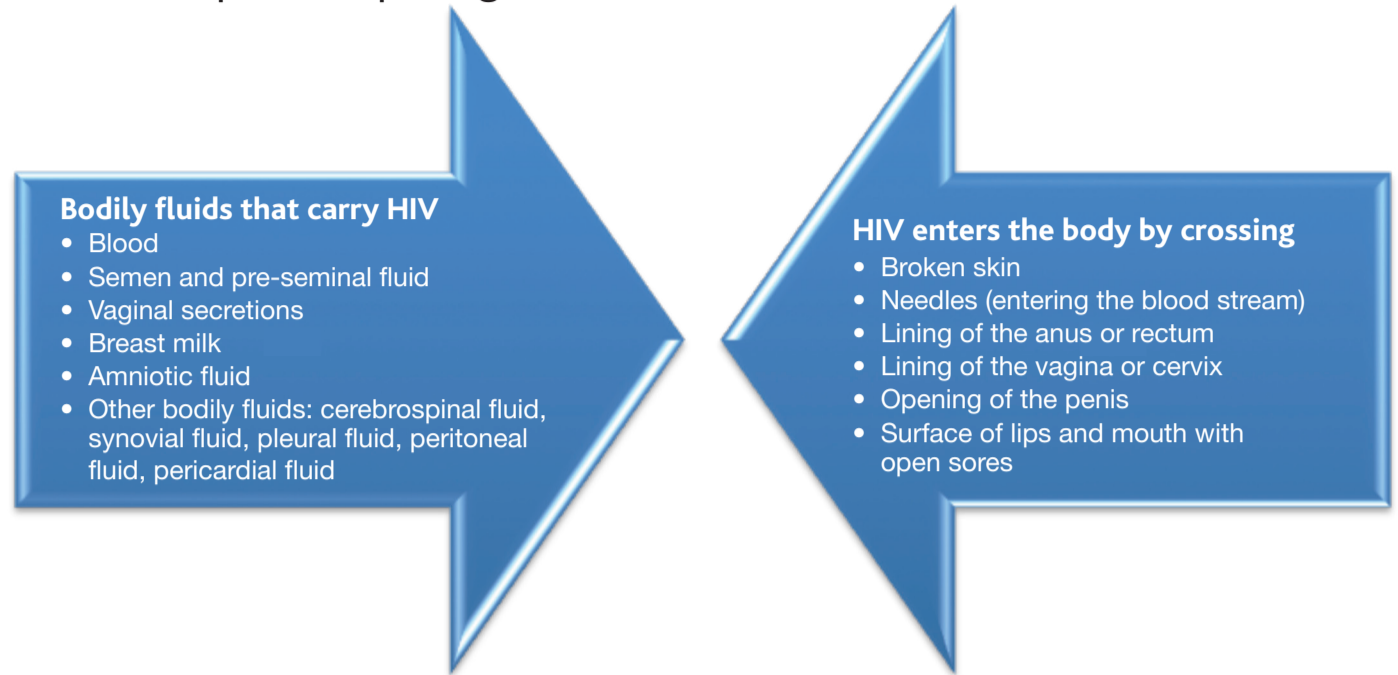
PREVENTION OF HIV TRANSMISSION Guidelines



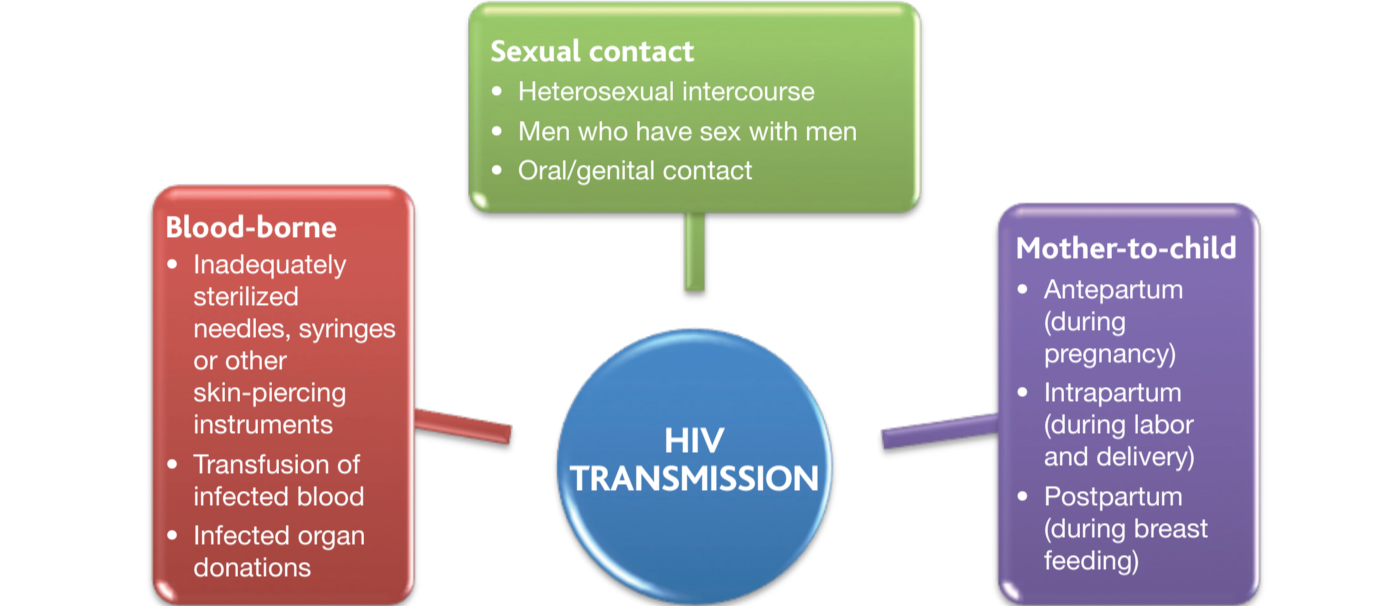
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1 HIV Basics

Human immunodeficiency virus (HIV) is a virus that kills the body's CD4 cells (or T helper cells). CD4 cells are a subset of white blood cells that assist in the immune response to pathogens.



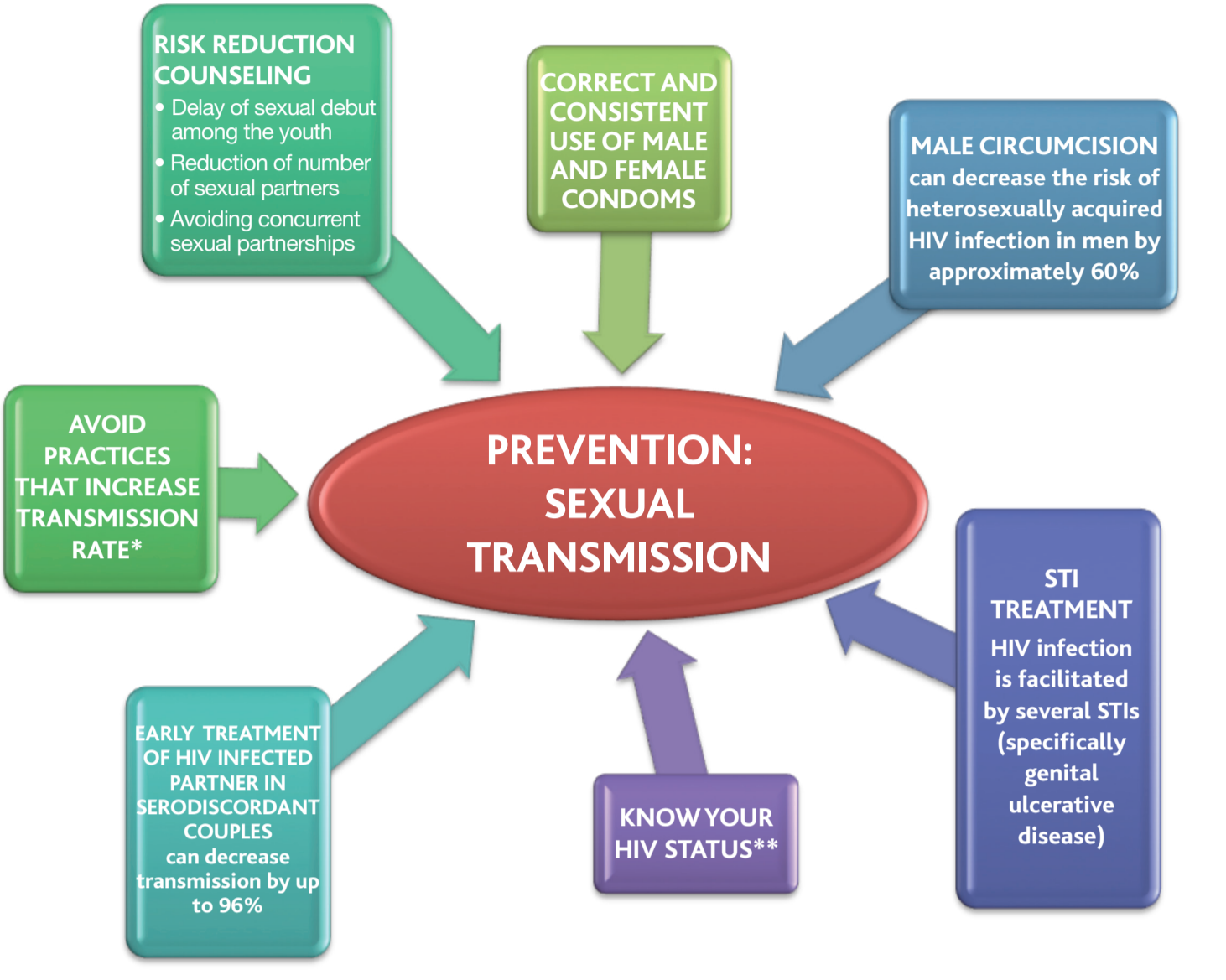
HIV transmission occurs when fluids containing HIV from an infected person enter the body of an uninfected person.



*Individuals cannot become infected through ordinary day to day contact such as hugging, kissing, shaking hands, or sharing food, water and personal objects.

2 Prevention: Sexual Transmission

The risk of transmission can be significantly reduced in the following ways:



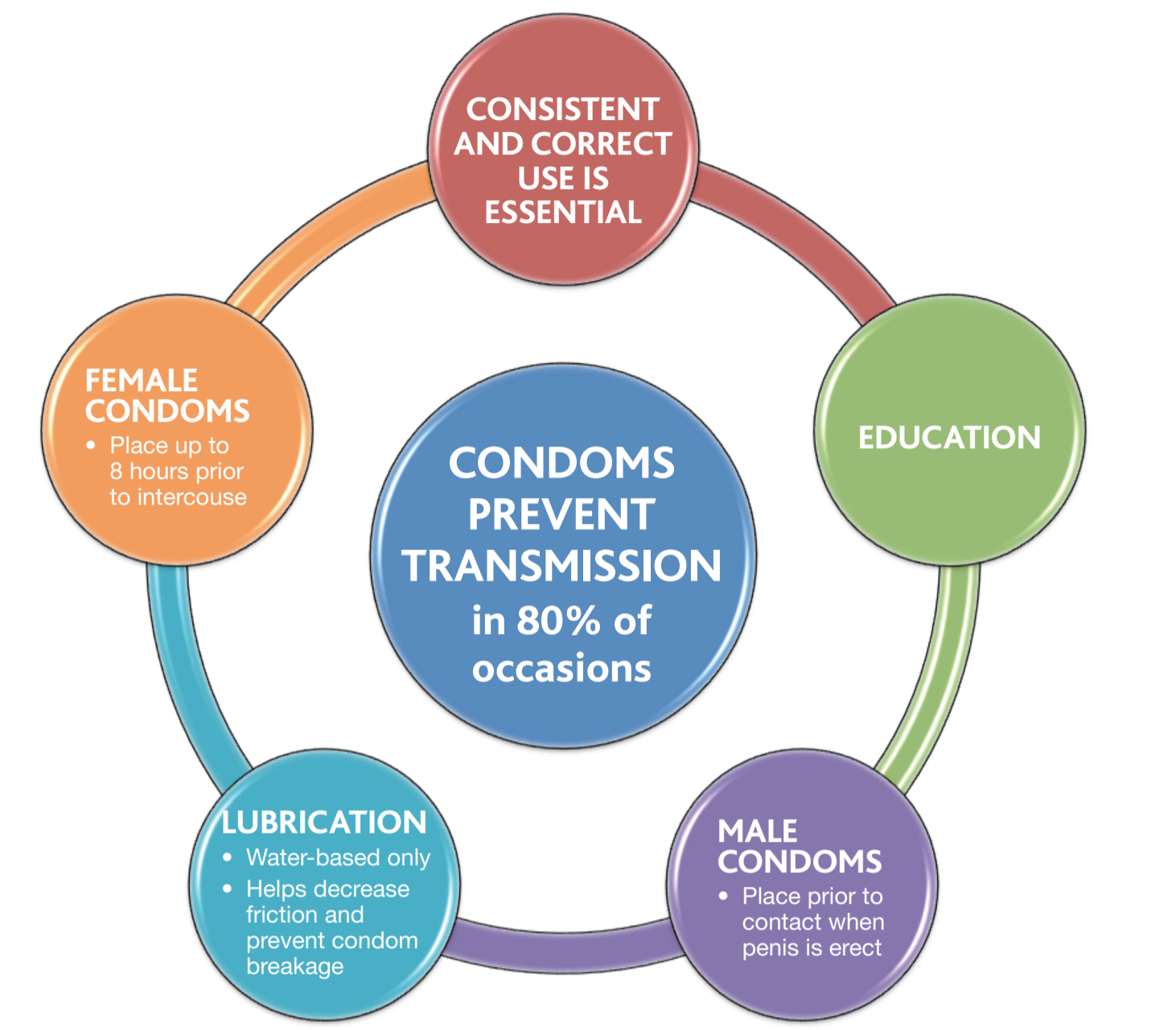
*Oil based lubricants damage condoms, making them less effective; nonoxynol 9 irritates rectal and vaginal walls; douching (anal or vaginal) irritates mucous lining; 'dry' sex; avoid intercourse when there are ulcerative genital lesions present or after any procedure on the cervix (LEEP or cone) or after male circumcision until healed.

**When performed concurrently with counseling, HIV testing provides education on prevention. Early diagnosis of disease enables access to treatment and care. Studies show that people who are aware of positive HIV status are more likely to engage in safer sexual practices. Initiating ART (antiretroviral therapy) will decrease HIV viral load, which decreases the likelihood of transmission to others.

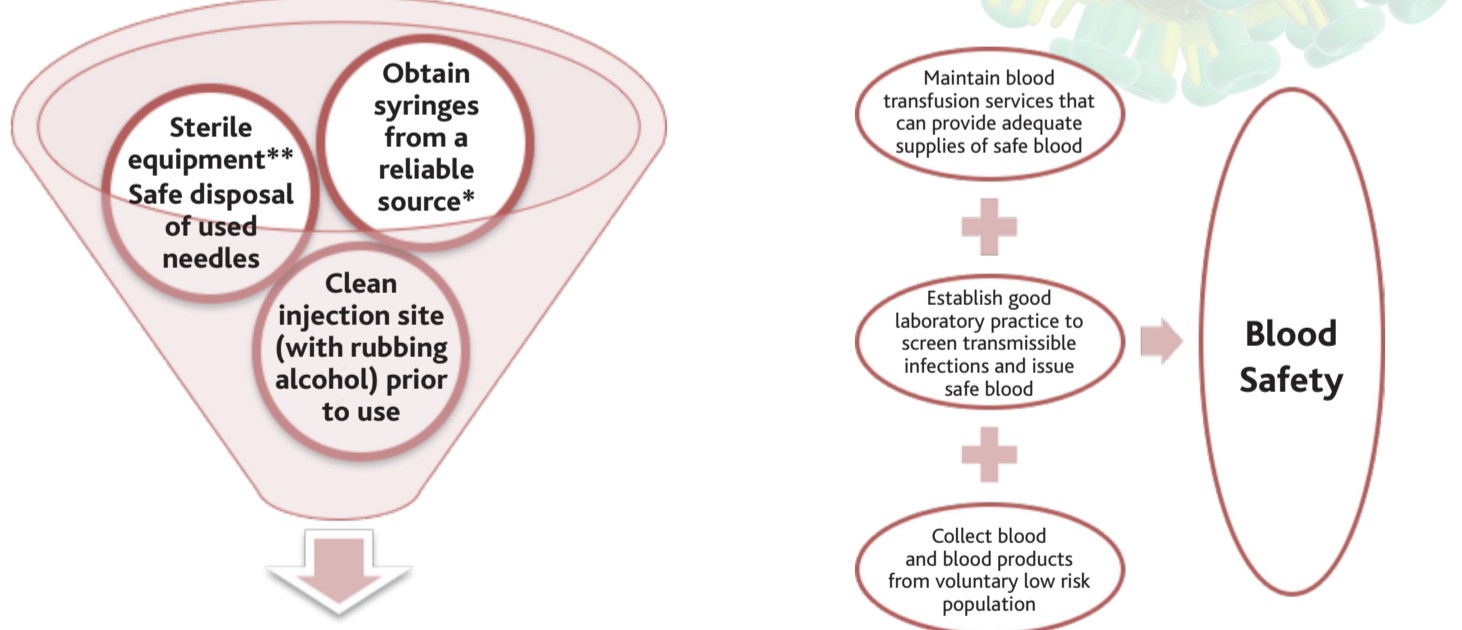
3 Prevention: Sexual Transmission

Proper use of condoms has been shown to decrease the transmission rate of HIV by approximately 80% for vaginal intercourse and 64% for anal intercourse.

Common obstacles to condom usage include poor acceptability, lack of control over use (people may lack negotiating skills), desire for procreation, and in certain areas condoms may not be available. Clinics should have condoms readily available along with accessible counseling on proper condom usage and negotiating skills.



4 Prevention: Blood-Borne Transmission



Provide education regarding safe injection practices for intravenous drug users along with rehabilitation information

*Includes pharmacies or needle exchange programs
**Use only sterile water; containers or cookers must be disinfected; use a new filter or cotton when preparing drugs

Postexposure prophylaxis

OCCUPATIONAL EXPOSURE

Definition: any percutaneous injury (needle stick or cut with a sharp object) or contact of a mucous membrane or non-intact skin with blood, tissue, or other bodily fluids which are potentially infected (cerebral spinal fluid, synovial fluid, pleural fluid, peritoneal fluid, pericardial fluid or amniotic fluid, semen or vaginal secretions)

NON-OCCUPATIONAL EXPOSURE

Definition: exposure of vagina, rectum, eye, mouth or other mucous membrane, non-intact skin or percutaneous contact with blood, semen, vaginal secretions, rectal secretions, breast milk or any bodily fluid that is visibly contaminated with blood

PROPHYLAXIS

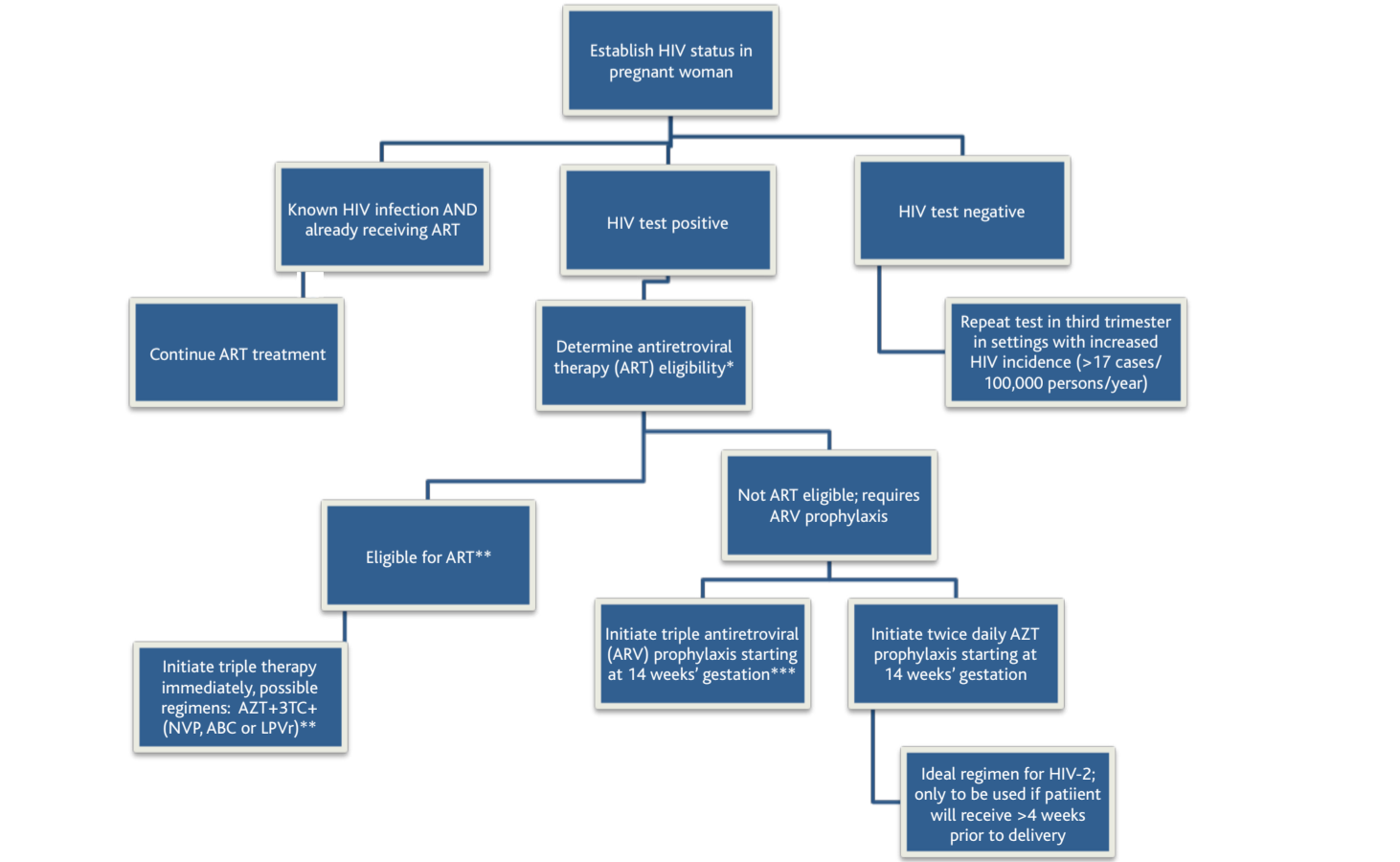
- Must be initiated within 72 hours of exposure
- HIV test should be performed after exposure, and at 3 and 6 months
- 28 day course of HAART (Highly Active Anti Retroviral Therapy) recommended

5 Prevention: Mother to Child Transmission (MCT)

ANTEPARTUM

All pregnant women should be encouraged to seek and utilize antenatal care if available. All pregnant women should be tested for HIV at their initial OB visit. Vertical transmission rates vary from 16 to 25% among mothers who do not receive ARV prophylaxis. This can be decreased to 1–2% when mothers are treated with HAART.

During pregnancy (antepartum)



Patients should be tested for TB at new obstetrics visit
*Patients should be started on chronic treatment while awaiting eligibility determination. CD4 count \leq 350, or WHO clinical stage 3–4 requires treatment.
**NVP should not be used if patient Hep B positive or in mothers with CD4 count $>$ 250 cells/mm³
***Triple ARV prophylaxis should not include NNRTI

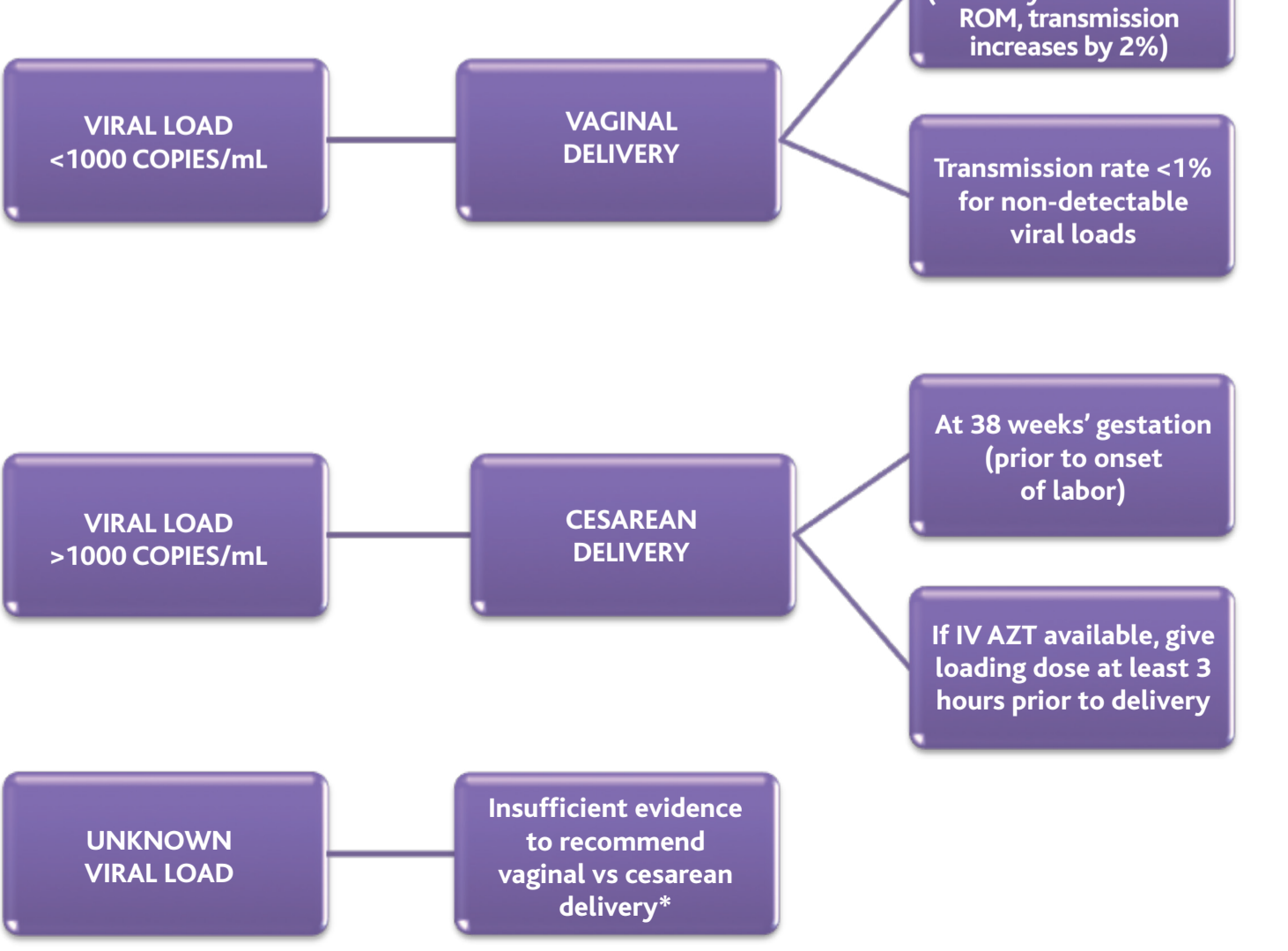
6 Prevention: Mother to Child Transmission

INTRAPARTUM

Treatment during labor (intrapartum)

All pregnant women should be encouraged to undergo a facility-based delivery with a skilled birth attendant to ensure safe delivery techniques (vaginal or cesarean delivery). Mothers should continue their antiretroviral (ARV) medication throughout labor. When available, intravenous AZT should be given in addition to ARV medication:

- Loading dose 2mg/kg infused over 1 hour
- Maintenance dosing 1 mg/kg/hour



*Decide based on clinical judgment, taking into consideration safety of facilities available for safe cesarean delivery, including maternal and infant morbidity/mortality.

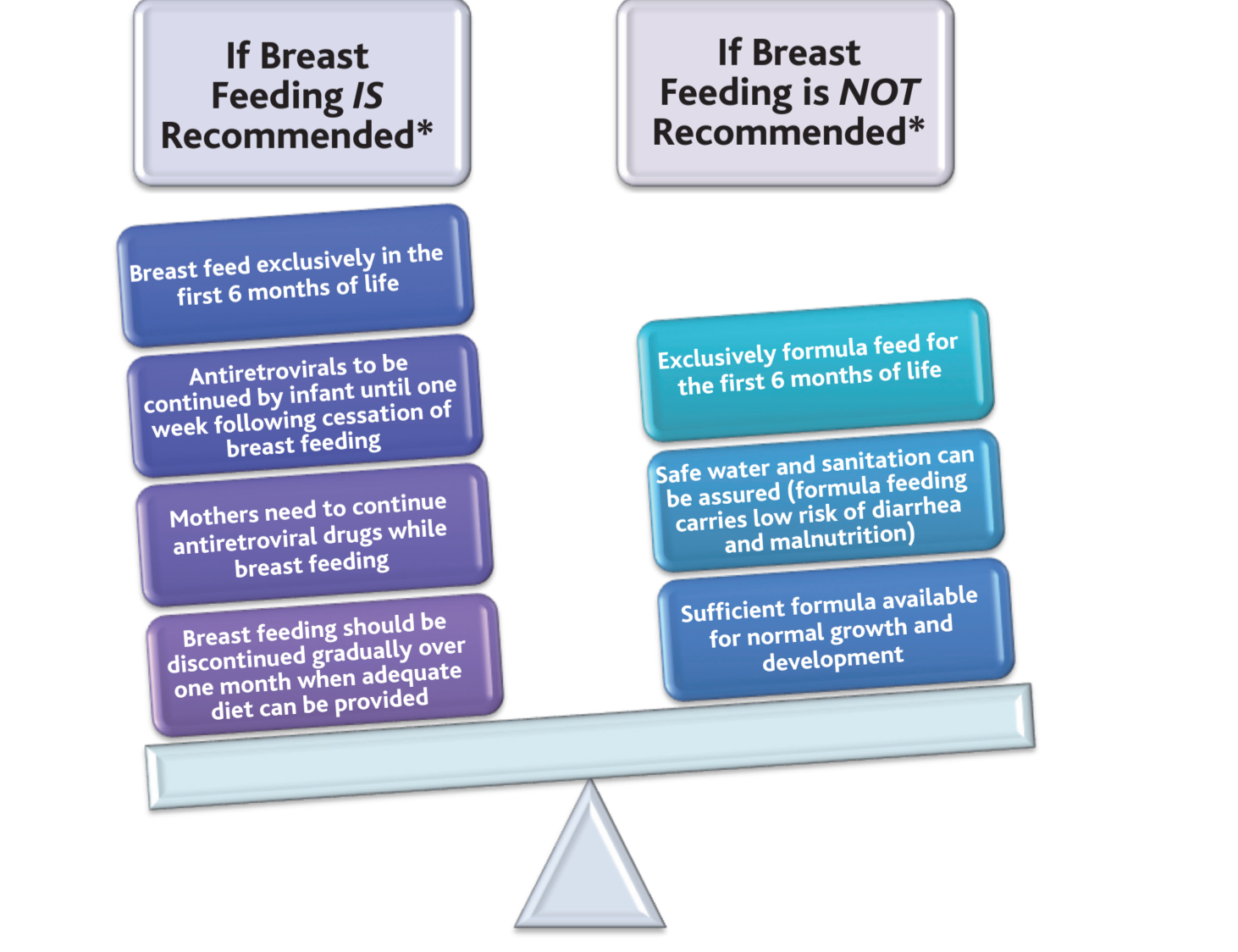
7 Prevention: Mother to Child Transmission

POSTPARTUM

Treatment after delivery (postpartum)

Infants born to mothers who are HIV positive should receive NVP during the first week of life along with 6 weeks of AZT for postexposure prophylaxis.

Consider infant clotrimoxazole prophylaxis (e.g. 20 mg TMP/100 mg SMZ in infants under 6 months of age) in all HIV-infected and -exposed infants (until it is clear they have not been infected).



*National or sub-national authorities should make official recommendations regarding breast feeding in HIV positive mothers that should reflect the greatest likelihood of HIV-free survival of children without harming the health of the mother. All mothers must have sufficient access to health care that offers comprehensive child health services. Access to family planning education and interventions is essential in the overall control of HIV transmission.

