

Care of Pregnant People with HIV: Preventing Perinatal Transmission

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Disclosures

- No personal disclosures
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Objectives

At the completion of this presentation, participants should be able to

- Recognize risks for perinatal HIV transmission
- Describe testing for HIV in people who are pregnant
- 3. Describe elements of patient centered, team based, treatment and delivery plans to prevent perinatal HIV transmission





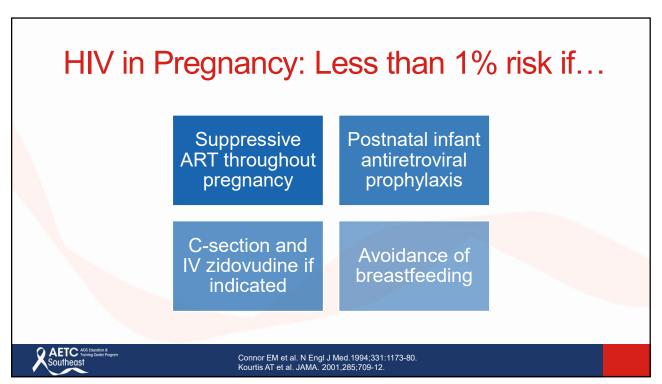
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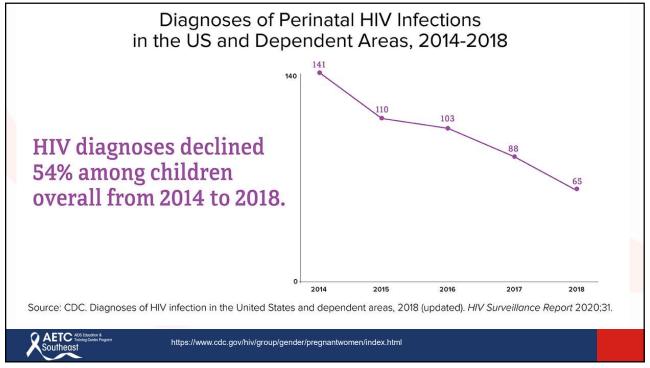
Question

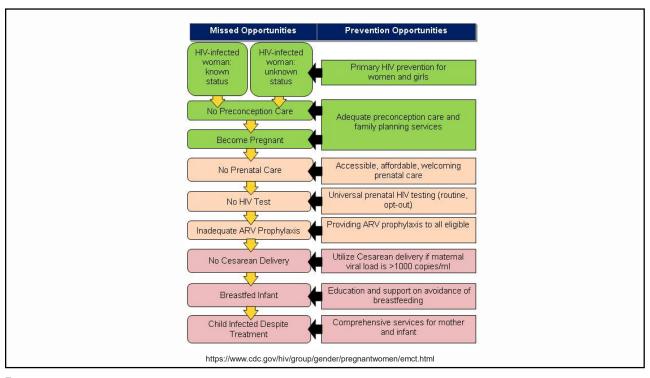
True or False. Most people with HIV who become pregnant deliver babies with HIV.

- A. True
- B. False









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Missed Opportunities for Preventing Perinatal Transmission of HIV: Florida 2007 – 2014

- 1.6% of exposed babies were perinatally infected
- Among the infected maternal-infant pairs, over 1/3 of mothers
 - Used street drugs or
 - Acquired an STI during pregnancy



AETC AIDS Education & Training Center Program Southeast

Trepka MJ et al. Southern Med J 2017 Feb;110(2):11-128. PMID: 28158882

Missed Opportunities for Preventing Perinatal Transmission of HIV: Florida 2007 – 2014

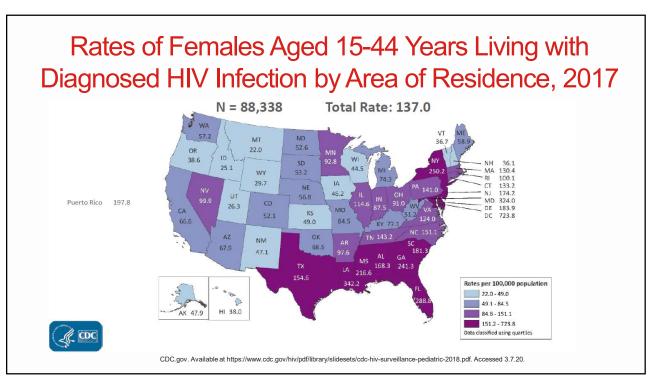
- Relative Risk of Perinatal Transmission
 - Maternal HIV Diagnosis during labor and delivery
 - RR = 5.66, (95% CI 2.31-13.91) (compared with prenatal diagnosis)
 - Maternal HIV Diagnosis after birth
 - RR = 26.50, (95% CI 15.44-45.49)
- Factors associated with perinatal transmission of HIV
 - Late diagnosis
 - Maternal acute HIV infection
 - Poor or late prenatal care

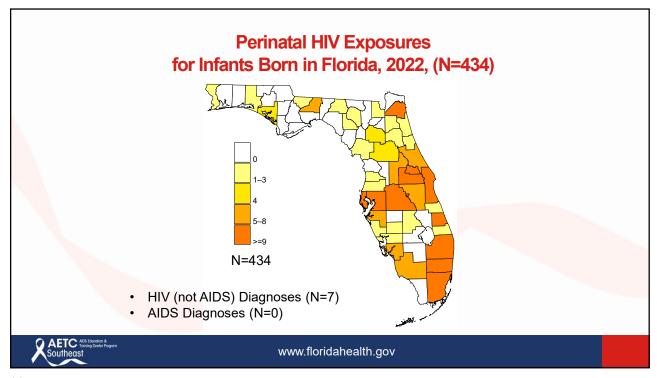


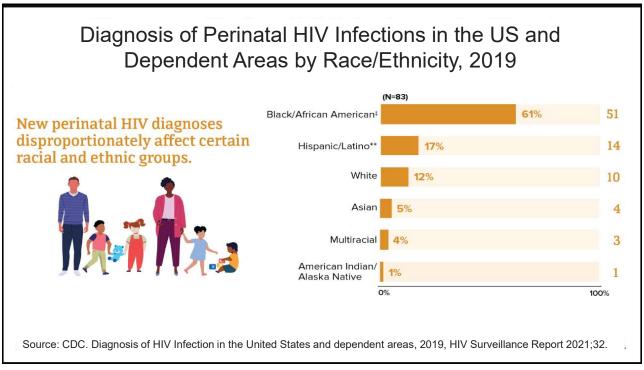


Trepka MJ et al. Southern Med J 2017 Feb;110(2):11-128. PMID: 28158882

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HIV Transmission from Mother to Baby

An HIV+ pregnant woman can transmit HIV to her baby 3 WAYS:

- During pregnancy
- + During vaginal childbirth
- + Through breastfeeding



- 25% risk of perinatal transmission in absence of therapy
 - 20% before 36 weeks
 - 50% between 36 weeks and delivery
 - 30% active labor and delivery
- Less than 1% risk if
 - Suppressive antiretroviral therapy (ART) throughout pregnancy
 - Postnatal infant antiretroviral prophylaxis
 - C-section & zidovudine (AZT) if indicated
 - Avoidance of breastfeeding

Connor EM et al. N Engl J Med.1994;331:1173-80. Kourtis AT et al. JAMA. 2001,285;709-12.



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Viral Load During Pregnancy is the Strongest Predictive Factor for Transmission

TABLE 2. RATES OF PERINATAL TRANSMISSION OF HIV-1 ACCORDING TO MATERNAL PLASMA HIV-1 RNA LEVELS AND THE USE OF ZIDOVUDINE THERAPY DURING PREGNANCY.*

ZIDOVUDI THERAP		MATERNAL PLASMA HIV-1 RNA COPIES/mI						
Γ	<1000	1000-10,000	>10,000-50,000	>50,000-100,000	>100,000			
		no	o. of infants infected	l/total no. (%)				
Yes	0/22	10/83 (12.0)	13/75 (17.3)	5/16 (31.2)	7/34 (20.6)	0.02		
No	0/35	22/110 (20.0)	26/108 (24.1)	12/38 (31.6)	19/30 (63.3)	< 0.001		
Total	0/57	32/193 (16.6)	39/183 (21.3)	17/54 (30.9)	26/64 (40.6)	< 0.001		

^{*}Values are the geometric means of measurements obtained throughout pregnancy. For each womance were measured up to three times during pregnancy and once at delivery. The treatment status of one woman was not known.

†The P values were calculated with use of the Mantel extension test for trend.



Garcia et al NEJM 1999 PMID 10432324

Question

When should pregnant people be screened for HIV?

- A) At entry into care for pregnancy
- B) Anytime they have any signs or symptoms suggestive of acute HIV
- C) In the 3rd trimester if at risk of HIV acquisition
- D) All of the above





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Screening for HIV



https://www.clinicaladvisor.com/home/topics/hiv-aids-information-center/hiv-screening-at-25-years-optimal-for-outcomes-cost/

At presentation for pregnancy care

Repeat in 3rd trimester (<36 weeks)

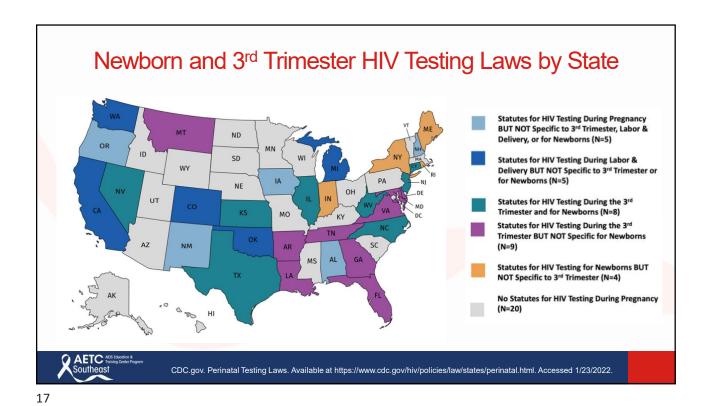
- If at risk of acquiring HIV during pregnancy
- Area/hospital with high number of people with HIV
- · Transactional sex
- Drug use
- Sex partner with HIV
- New sex partner or more than 1 sex partner
- Suspected or diagnosed sexually transmitted infection

At labor and delivery if HIV status is unknown

As mandated by law



https://clinicalinfo.hiv.gov/en/guidelines/perinatal



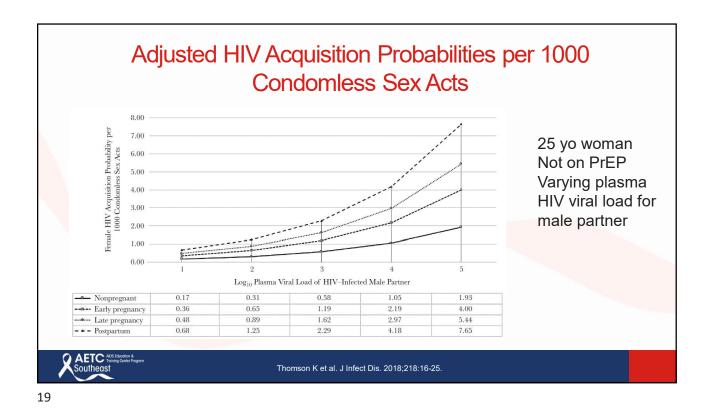
HIV Acquisition Probability and Relative Risk: 2751 African Women with HIV-Infected Male Partners, by Reproductive Stage

Table 5. HIV Acquisition Probability and Relative Risk (RR) of HIV Acquisition Among 2751 African Women With HIV-Infected Male Partners, by Reproductive Stage

	E	Base Model ^a	Adjusted Model ^b			
Reproductive Stage	Probability ^c of HIV Acquisition per Condomless Sex Act (95% CI)	RR ^d for per-Act Probability of HIV Acquisition (95% CI)	P	Probability ^c of HIV Acquisition per Condomless Sex Act (95% CI)	RR ^d for per-Act Probability of HIV Acquisition (95% CI)	P
Early pregnancy through postpartum period	0.0027 (0.0009, 0.0074)	4.97 (2.95, 8.38)	<.001	0.0029 (0.004, 0.0093)	2.76 (1.58, 4.81)	<.001
Early pregnancy	0.0018 (0.0003, 0.0070)	3.20 (1.24, 8.25)	.02	0.0022 (0.0004, 0.0093)	2.07 (0.78, 5.49)	.14
Late pregnancy	0.0031 (0.0008, 0.0102)	5.54 (2.62, 11.69)	<.001	0.0030 (0.0007, 0.0108)	2.82 (1.29, 6.15)	.01
Postpartum period	0.0044 (0.0008, 0.0167)	7.80 (3.04, 20.02)	<.001	0.0042 (0.0007, 0.0177)	3.97 (1.50, 10.51)	.01
Nonpregnant/nonpostpartum periods	0.0005 (0.0003, 0.0009)	1.00	***	0.0011 (0.005, 0.0019)	1.00	

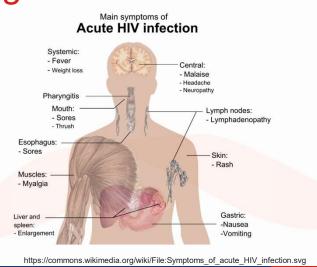
Thomson K et al. J Infect Dis. 2018;218:16-25



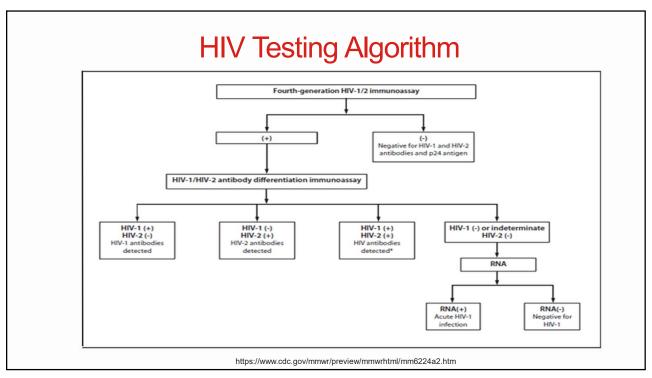


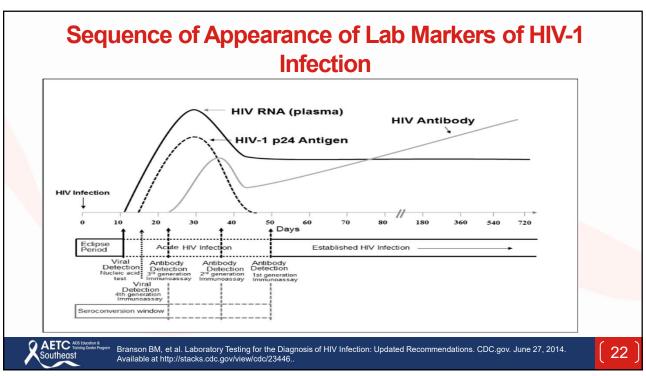
Screening for HIV

- If signs or symptoms of acute HIV, obtain
 - 4th generation Ag/Ab test AND
 - HIV RNA PCR --quantitative
- Partners of all pregnant people should be referred for HIV testing when their status is unknown









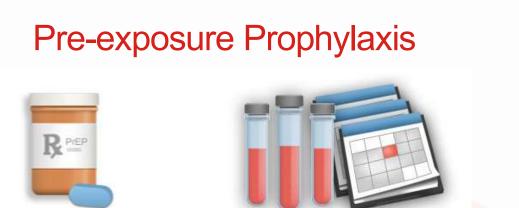
Question

- A pregnant person presents to care and has a negative HIV test. What should happen next? Select all that are correct.
- A. Inform patient of negative test and describe availability of HIV pre-exposure prophylaxis (PrEP)
- B. Don't talk about HIV as patient has tested negative
- C. Ask if sex partner's HIV status is known
- D. If injection drug user, ask if injection partner's HIV status is known



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Status Neutral HIV Prevention and Care Prevention **Treatment** Culturally eople whose HIV tests are negative are People whose HIV tests are **Pathway Pathway** Inclusive and offered powerful prevention tools like positive enter primary care and PrEP, condoms, harm reduction (e.g. Responsive are offered effective treatment SSPs), and supportive services to stay Quality Care and supportive services to transmitting HIV HIV negative. achieve and maintain viral suppression. **Prevent and Treat Syndemic Infections** Follow CDC gudielines to test people for HIV. Regardless of HIV status, quality care is the foundation of HIV prevention and effective treatment. Both pathways provide people with the tools they need to stay healthy and stop HIV. CDC.gov. Issue Brief: Status Neutral HIV Care and Service Delivery Eliminating Stigma and Reducing Health Disparities. CDC.gov/hiv/pdf/policies/issue-brief/Issue-Brief-Status-Neutral-HIV-Care.pdf.Accessed 10/2/22.



Prep is an hiv prevention method in which people who do not have hiv infection take a pill daily to reduce their risk of becoming infected

ONLY PEOPLE WHO ARE HIV-NEGATIVE SHOULD USE Prep. An hiv test is required before starting prep and then every 3 months while taking prep.



http://aids.gov/hiv-aids-basics/prevention/reduce-your-risk/pre-exposure-prophylaxis

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Question

• What should occur in the event of a positive HIV Ag/Ab test and a negative HIV Ab differentiation assay while awaiting the results of an HIV viral load in a pregnant person?



Qustion

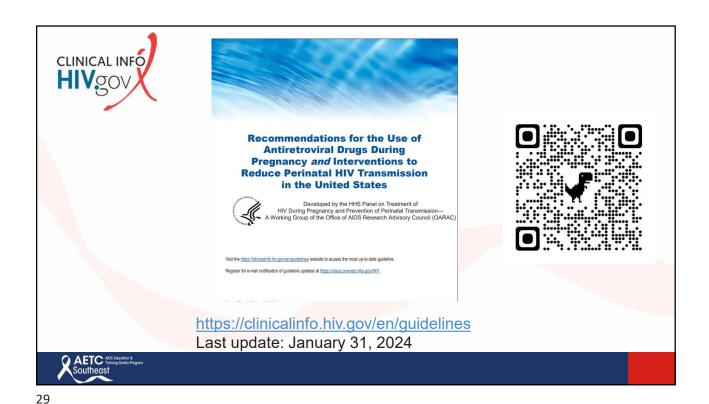
- A. Start antiretroviral therapy in the mother
- B. Counsel regarding C-section if no viral load available at time of delivery
- C. Counsel regarding indication for C-section if viral load results > 1000 copies/mL
- D. Plan maternal IV AZT therapy around time of delivery
- E. All of the above



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Care for the Pregnant Person with HIV



Perinatal Antiretroviral Therapy

- Start as soon as possible
 - Earlier viral suppression = reduced risk of transmission to the fetus
 - 2. Modify therapy later if needed
 - Goal: Maintain HIV viral load level below the limit of detection during and after pregnancy
 - 4. "PrEP" for the fetus



https://clinicalinfo.hiv.gov/sites/default/files/guidelines/documents/PerinatalGL.pdf

French Perinatal Cohort: Update

- 14630 HIV-infected mother-infant pairs
- 2000 to 2017
- Pregnant people received ART, delivered live-born children with determined HIV status, and did not breastfeed

Sibiude et al. CID 2023:76 (1 February)



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French Perinatal Cohort: Update

- 5482 children born to mothers on ART prior to conception, ART throughout pregnancy, HIV viral load < 50 copies/mL at delivery, no breastfeeding
 - No HIV transmission
- Regardless of viral load at birth, risk of transmission varied based on when ART was started
 - ART prior to conception 0.14%
 - ART started in first trimester 0.52%
 - ART started in second trimester 0.75%
 - ART started in third trimester 1.67%

Sibiude et al. CID 2023:76 (1 February)



Medications in Pregnancy

- Many physical changes occur in pregnancy that affect drug pharmacokinetics
 - Decrease in serum proteins
 - Increased plasma volume
 - Increase in kidney filtration
 - Delayed stomach emptying

- What does this mean for the pregnant person?
 - May have to take higher doses or take ART more often to get appropriate blood and placental levels





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Preferred Initial Therapy for Antiretroviral Naïve Pregnant People

2 NRTIs + INSTI

NRTI = Nucleoside Reverse Transcriptase Inhibitor
INSTI = Integrase Strand Transfer Inhibitor



DHHS Perinatal Guidelines Available at https://clinicalinfo.hiv.gov/en/guidelines/perinatal. Accessed 4/21/24.

Preferred 2-NRTI Backbones

- 1. Abacavir (ABC)/lamivudine (3TC) = Epzicom
 - Must be HLA-B*5701 negative
 - If HIV viral load > 100,000 don't combine with atazanavir or efavirenz
- 2. Tenofovir alafenamide (TAF) /emtricitabine (FTC) = Descovy
- TAF + 3TC
- 4. Tenofovir disoproxil fumarate (TDF)/emtricitabine (FTC) = Truvada
- 5. TDF/3TC = Cimduo, Temyxis
- Tenofovir in pregnancy
 - Both TAF and TDF are preferred in pregnancy
 - TAF associated with fewer adverse birth outcomes and slightly higher gestational weight
 - TDF has potential renal toxicity
 - Either form appropriate for treatment of HIV/hepatitis B co-infection



DHHS Perinatal Guidelines Available at https://clinicalinfo.hiv.gov/en/guidelines/perinatal. Accessed 4/21/24.

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INSTIs

- Preferred: Dolutegravir (Tivicay)
 - Once daily dosing
 - Specific timing and/or food recommendations if taken with calcium or iron
 - Preferred for treatment of acute HIV during pregnancy
- Alternative: Bictegravir (as part of BIC/TAF/FTC)
 - One pill once daily
 - Specific timing and/or food recommendations if taken with calcium or iron
- Alternative: Raltegravir (Isentress)
 - Must be dosed 400 mg twice daily in pregnancy
 - Don't use high dose, once daily formulation
 - Well-tolerated, few drug interactions



DHHS Perinatal Guidelines Available at https://clinicalinfo.hiv.gov/en/guidelines/perinatal. Accessed 4/2124.

Protease Inhibitors

- Preferred: Darunavir/r (Prezista + Norvir)
 - Dose in pregnancy: darunavir 600 mg + ritonavir 100 mg twice daily with food
- Alternative: Atazanavir/r (Reyataz + Norvir)
 - Once-daily dosing
 - Do not use with proton pump inhibitors
 - Associated with increased maternal indirect bilirubin levels



DHHS Perinatal Guidelines Available at https://clinicalinfo.hiv.gov/en/guidelines/perinatal. Accessed 4/21/24.

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Alternative ART for Initial Therapy in Pregnancy

NRTI backbone

• Zidovudine/3TC (Combivir)

NNRTI

- Efavirenz (Sustiva)
- Rilpivirine (Edurant)
 - · Take with food
 - Interacts with acid reducing agents
 - Don't use if HIV viral load > 100,000 copies/mL or CD4 < 200 cells/mm³
 - PK data suggests lower drug levels and risk for viral rebound in second and third trimesters – monitor closely



DHHS Perinatal Guidelines Available at https://clinicalinfo.hiv.gov/en/guidelines/perinatal. Accessed 4/21/24.

Acute HIV in Pregnancy

Preferred regimen

Dolutegravir + tenofovir + emtricitabine (or lamivudine)

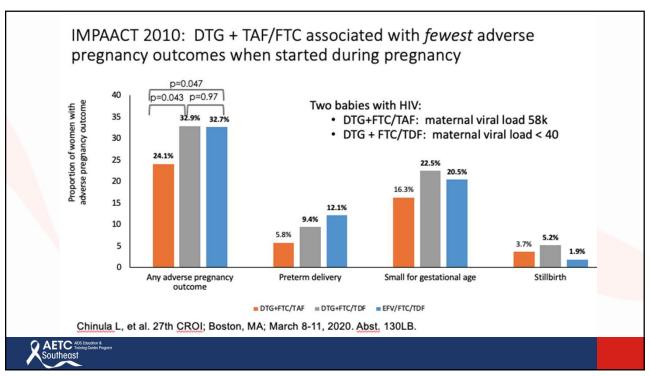
Alternative regimen

Darunavir/r + tenofovir + emtricitabine (or lamivudine)



 $DHHS\ Perinatal\ Guidelines\ Available\ at\ https://clinicalinfo.hiv.gov/en/guidelines/perinatal.\ Accessed\ 4/21/24.$

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Other Antiretrovirals as Initial Regimens in Pregnancy

- Insufficient Data: Doravirine
- Not Recommended:
 - Cobicistat containing regimens due to pharmacokinetic changes that can reduce medication efficacy
 - (Atazanavir/c, darunavir/c, elvitegravir/c)
 - Long-acting injectable cabotegravir (CAB) plus rilpilvirine (RPV)



DHHS Perinatal Guidelines Available at https://clinicalinfo.hiv.gov/en/guidelines/perinatal. Accessed 4/21/24.

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Antiretroviral Therapy in Pregnancy Key Points

- In most cases, people who present for obstetric care on fully suppressive HIV therapy should continue their current regimen
- 2. Use the same regimens recommended for nonpregnant adults in pregnant people when regimen is: tolerated, safe, effective in suppressing viral replication
- Consider whether pharmacokinetic changes in second, third trimesters may lead to lower plasma levels of certain ART, require increasing doses, more frequent viral load monitorin



DHHS Perinatal Guidelines Available at https://clinicalinfo.hiv.gov/en/guidelines/perinatal. Accessed 4/21/24

Table 7. Situation-Specific Recommendations for Use of Antiretroviral Drugs in Pregnant People and Nonpregnant People Who Are Trying to Conceive

ART Regimen Component	ART for Pregnant People Who Have Never Received ARV Drugs and Who Are Initiating ART for the First Time	Continuing ART for People Who Become Pregnant on a Fully Suppressive, Well-Tolerated Regimen	ART for Pregnant People Who Have Received ARV Drugs in the Past and Who Are Starting or Restarting ART ^a	New ART Regimen for Pregnant People Whose Current Regimen Is Not Well Tolerated and/or Is Not Fully Suppressive ^a	ART for Nonpregnant People Who Are Trying to Conceivea ^{a,b}			
Integrase Strand Transfer Inhibitor (INSTI) Drugs Used in combination with a dual-nucleoside reverse transcriptase inhibitor (NRTI) backbone ^{c,d}								
DTG ^a	Preferred ^a	Continue	Preferred ^a	Preferred	Preferred			
BIC ^{a,e}	Alternative ^a	Continue	Alternative ^a	Alternative	Alternative			
RAL	Alternative	Continue	Alternative	Alternative	Alternative			
CAB ^d Oral (lead-in) Long-acting (IM)	Not recommended	Continue with frequent viral load monitoring or consider switching due to insufficient data ^d	Insufficient data	Insufficient data	Insufficient data			
EVG/c ^f	Not recommended	Continue with frequent viral load monitoring or consider switching.	Not recommended	Not recommended	Not recommended			

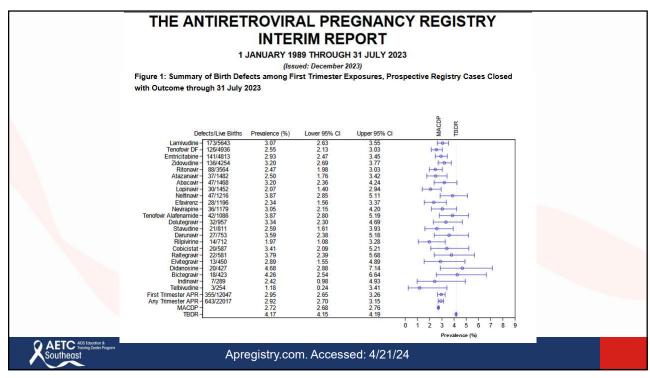
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What about 2 drug or injectable regimens?

- Pregnant persons who present to care on DTG/3TC or DTG/RPV and have successfully maintained viral suppression can continue the two-drug regimen (BIII) with more frequent viral load monitoring every 1 to 2 months throughout pregnancy (CIII)
- Data about the use of long-acting injectable cabotegravir (CAB-LA) and RPV during pregnancy are extremely limited and insufficient to make a recommendation for or against use in pregnancy



 $DHHS\ Perinatal\ Guidelines\ Available\ at\ https://clinicalinfo.hiv.gov/en/guidelines/perinatal.\ Accessed\ 4/21/24$



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Monitoring of HIV During Pregnancy

- HIV viral load testing
 - Initial visit
 - 2-4 weeks after starting or changing ART
 - Monthly until HIV viral load is below limit of detection of test ("undetectable")
 - Every 3 months during pregnancy
 - 34-36 weeks' gestation to inform delivery decisions (4 weeks prior to delivery)
- Antiretroviral resistance testing
 - Prior to starting ART if never on treatment
 - Prior to changing regimen if HIV RNA >200 copies/ml
 - -need to have enough virus for resistance testing (> 500 to 1,000 copies/mL)



DHHS Perinatal Guidelines Available at https://clinicalinfo.hiv.gov/en/guidelines/perinatal. Accessed 4/21/24

Monitoring of CD4 During Pregnancy

- CD4 lymphocyte count should be measured at initial visit with review of prior CD4 counts
- If patient has been on ART ≥ two years, consistently undetectable and CD4 ≥ 300 cells/mm³ → no further checking needed during this pregnancy
- If on ART for < 2 yrs, CD4 ≥ 300 cells/mm³, check CD4 every six months</p>
- All others, check CD4 every three months during pregnancy



DHHS Perinatal Guidelines Available at https://clinicalinfo.hiv.gov/en/guidelines/perinatal. Accessed 4/21/24

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What if virologic suppression is not attained?

- 1. Test for drug resistance
- Assess drug adherence, tolerability, dosing, potential problems with absorption, lack of attention to food requirements
- Consider ART modification using medications that are recommended for use in pregnancy

Adherence to ART, labs and appointments (both OB and HIV care) are critical to success in preventing mother to child transmission!



DHHS Perinatal Guidelines Available at https://clinicalinfo.hiv.gov/en/guidelines/perinatal. Accessed 4/21/24

Virologic Failure Near Delivery

- HIV RNA > 1,000 copies/mL or unknown viral load
 - Scheduled cesarean section at 38 weeks
 - Intravenous zidovudine
 - 2 mg/kg dose followed by a continuous infusion of 1 mg/kg/hour until delivery
 - Some providers would give IV zidovudine if last HIV viral load > 50 or any concern for non-adherence
- At UF→our policy is to give all pregnant persons with HIV AZT at delivery regardless of viral load



OHHS Perinatal Guidelines Available at https://clinicalinfo.hiv.gov/en/guidelines/perinatal. Accessed 4/21/24

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Case

- Kelly is a 32-year-old woman, with perinatally-acquired HIV, well-controlled on DTG +TAF/FTC, pregnant with her first child
- She understands that the baby will be given prophylactic ART upon delivery
- She would like to breastfeed her child and wants to know how best to go about doing this for her and her child's health
- How do you advise her?



Infant Feeding for Individuals with HIV in the United States

- Section updated January 31, 2023
- Section previously named: Counseling and Managing Individuals With HIV in the United States Who Desire To Breastfeed

Panel's Recommendations

- People with HIV should receive evidence-based, patient-centered counseling to support shared decision-making
 about infant feeding. Counseling about infant feeding should begin prior to conception or as early as possible in
 pregnancy; information about and plans for infant feeding should be reviewed throughout pregnancy and again after
 delivery (AIII). During counseling, people should be informed that—
 - Replacement feeding with properly prepared formula or pasteurized donor human milk from a milk bank eliminates the risk of postnatal HIV transmission to the infant (AI).
 - Achieving and maintaining viral suppression through antiretroviral therapy (ART) during pregnancy and postpartum decreases breastfeeding transmission risk to less than 1%, but not zero (AI).
- Replacement feeding with formula or banked pasteurized donor human milk is recommended to eliminate the risk of
 HIV transmission through breastfeeding when people with HIV are not on ART and/or do not have a suppressed viral
 load during pregnancy (at a minimum throughout the third trimester), as well as at delivery (AI).
- Individuals with HIV who are on ART with a sustained undetectable viral load and who choose to breastfeed should be supported in this decision (AIII).
- Individuals with HIV who choose to formula feed should be supported in this decision. Providers should ask about
 potential barriers to formula feeding and explore ways to address them (AIII).
- Engaging Child Protective Services or similar agencies is not an appropriate response to the infant feeding choices of an individual with HIV (AIII).



DHHS Perinatal Guidelines Available at https://clinicalinfo.hiv.gov/en/guidelines/perinatal. Accessed 4/21/24

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Shared-decision Making

- Patient-centered counseling regarding infant feeding should begin before pregnancy, continue during pregnancy and reviewed again upon delivery
- Counseling should include the following information:
 - Replacement feeding with properly prepared formula or pasteurized donor human milk from a milk bank eliminates the risk of postnatal HIV transmission to the infant
 - Achieving and maintaining viral suppression through ART during pregnancy and postpartum decreases breastfeeding transmission risk to less than 1%, but not zero



 $DHHS\ Perinatal\ Guidelines\ Available\ at\ https://clinicalinfo.hiv.gov/en/guidelines/perinatal.\ Accessed\ 4/21/24$

Shared-decision Making

- Individuals with HIV, on ART with a sustained undetectable viral load and who choose to breastfeed should be supported in this decision
- Individuals with HIV who choose to formula feed should be supported in this decision. Providers should ask about potential barriers to formula feeding and explore ways to address them
- Engaging Child Protective Services or similar agencies is not an appropriate response to the infant feeding choices of an individual with HIV



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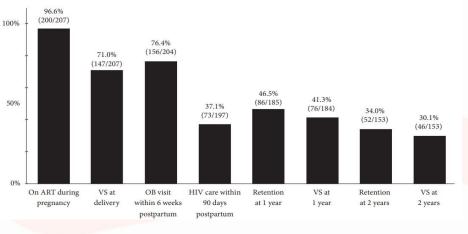
The Fourth Trimester: Postpartum Care

- The 12 weeks postpartum are referred to as "the fourth trimester"
- Address the following
 - Mood and emotional wellbeing
 - Infant care and feeding
 - Sleep, fatigue and physical recovery from birth
 - Sexuality, contraception, birth spacing
 - Chronic disease management and coordination of care with PCP
 - Health Maintenance
- Women living with HIV are often lost to HIV follow-up during this time period



https://www.acog.org/clinical/clinical-guidance/committee-opinion/articles/2018/05/optimizing-postpartum-care





AETC AIDS Education & Southeast

Meade CM, et al. Infect Dis Obstet Gynecol. 2019 Feb 14;2019:8161495.

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Postpartum HIV Care:

- Cross-disciplinary approach to integrate HIV obstetric care during pregnancy
- Enhanced care coordination for transition between obstetric and HIV services postpartum
- Co-locate HIV primary care for mother and pediatric care of infant



Meade CM, et al. Infect Dis Obstet Gynecol. 2019 Feb 14;2019:8161495.

Support Pregnant People with HIV So They Stay in Care and on Therapy

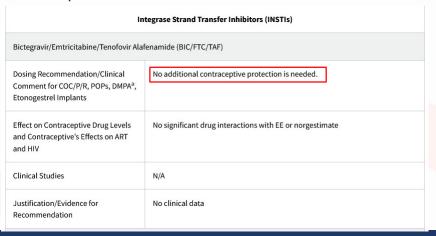
- Coordination of services helps:
 - Prenatal care providers
 - Primary care and HIV specialty care providers (Adult and Peds ID)
 - Mental health and substance use disorder treatment, if needed
 - Intimate partner violence support services
 - Public assistance programs
 - Perinatal coordinator, case manager, peer, and/or support groups



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Family Planning Conversations

 Women with HIV can use all available contraceptive methods, including hormonal contraception





DHHS Perinatal Guidelines Available at https://clinicalinfo.hiv.gov/en/guidelines/perinatal. Accessed 4/21/24

Summary

- Recognizing HIV infection in people who are pregnant is critical for protection of the pregnant person's health and to prevent transmission to the baby
- There are multiple effective, safe and well tolerated options for antiretroviral treatment in pregnancy
- Support before, throughout, and after pregnancy is critical for the health of people with HIV and their babies



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AETC Program National Centers and HIV Curriculum



Rapid perinatal HIV consultation from practicing providers

Call for a Phone Consultation (888) 448-8765 24 hours, Seven days a week National Coordinating Resource Center –serves as the central web –based repository for AETC Program training and capacity building resources; its website includes a free virtual library with training and technical assistance materials, a program directory, and a calendar of trainings and other events. Learn more: https://aidsetc.org/

•National Clinical Consultation Center –provides free, peer-to-peer, expert advice for health professionals on HIV prevention, care, and treatment and related topics. Learn more: https://nccc/ucsf.edu

•National HIV Curriculum –provides ongoing, up –to-date HIV training and information for health professionals through a free, web –based curriculum; also provides free CME credits, CNE contact hours, CE contact hours, and maintenance of certification credits. Learn more: www.hiv.uw.edu

