

Sexual Assault and Abuse and STIs

This is a PDF version of the following document:

Module 1: [STD Question Bank](#)

Lesson 25: [Sexual Assault and Abuse and STIs](#)

You can always find the most up-to-date version of this document at

<https://www.std.uw.edu/go/2021-guidelines/sexual-assault-abuse/core-concept/all>.

References

- A National Protocol for Sexual Assault Medical Forensic Examinations Adults/Adolescents. Second Edition. U.S. Department of Justice. Office on Violence Against Women. April 2013
[\[U.S. Department of Justice\]](#) -
- Adair CD, Gunter M, Stovall TG, McElroy G, Veille JC, Ernest JM. Chlamydia in pregnancy: a randomized trial of azithromycin and erythromycin. *Obstet Gynecol.* 1998;91:165-8.
[\[PubMed Abstract\]](#) -
- Centers for Disease Control and Prevention (CDC). HIV testing and risk behaviors among gay, bisexual, and other men who have sex with men - United States. *MMWR Morb Mortal Wkly Rep.* 2013;62:958-62.
[\[PubMed Abstract\]](#) -
- Centers for Disease Control and Prevention, U.S. Department of Health and Human Service. Update: Interim Statement Regarding Potential Fetal Harm from Exposure to Dolutegravir—Implications for HIV Post-exposure Prophylaxis (PEP).
[\[CDC\]](#) -
- Centers for Disease Control and Prevention, U.S. Department of Health and Human Services. Updated Guidelines for Antiretroviral Postexposure Prophylaxis After Sexual, Injection Drug Use, and Other Nonoccupational Exposure to HIV - United States, 2016.
[\[CDC\]](#) -
- Crawford-Jakubiak JE, Alderman EM, Leventhal JM, AAP Committee on child abuse and neglect,, AAP Committee on adolescence. Care of the Adolescent After an Acute Sexual Assault. *Pediatrics.* 2017;139:e20164243.
[\[PubMed Abstract\]](#) -
- de Voux A, Kidd S, Grey JA, et al. State-Specific Rates of Primary and Secondary Syphilis Among Men Who Have Sex with Men - United States, 2015. *MMWR Morb Mortal Wkly Rep.* 2017;66:349-354.
[\[PubMed Abstract\]](#) -
- Deutsch SA, Benyo S, Xie S, et al. Addressing Human Papillomavirus Prevention During Pediatric Acute Sexual Assault Care. *J Forensic Nurs.* 2018;14:154-161.
[\[PubMed Abstract\]](#) -

- Du Mont J, Myhr TL, Husson H, Macdonald S, Rachlis A, Loutfy MR. HIV postexposure prophylaxis use among Ontario female adolescent sexual assault victims: a prospective analysis. *Sex Transm Dis*. 2008;35:973-8.
[[PubMed Abstract](#)] -
- Fanfair RN, Wallingford M, Long LL, et al. Acquired macrolide-resistant *Treponema pallidum* after a human bite. *Sex Transm Dis*. 2014;41:493-5.
[[PubMed Abstract](#)] -
- Houmes BV, Fagan MM, Quintana NM. Establishing a sexual assault nurse examiner (SANE) program in the emergency department. *J Emerg Med*. 2003;25:111-21.
[[PubMed Abstract](#)] -
- Iversen OE, Miranda MJ, Ulied A, et al. Immunogenicity of the 9-Valent HPV Vaccine Using 2-Dose Regimens in Girls and Boys vs a 3-Dose Regimen in Women. *JAMA*. 2016;316:2411-2421.
[[PubMed Abstract](#)] -
- Kellogg N. The evaluation of sexual abuse in children. *Pediatrics*. 2005;116:506-12.
[[PubMed Abstract](#)] -
- Krause KH, Lewis-O'Connor A, Berger A, et al. Current practice of HIV postexposure prophylaxis treatment for sexual assault patients in an emergency department. *Womens Health Issues*. 2014;24:e407-12.
[[PubMed Abstract](#)] -
- Linden JA. Clinical practice. Care of the adult patient after sexual assault. *N Engl J Med*. 2011;365:834-41.
[[PubMed Abstract](#)] -
- Meites E, Kempe A, Markowitz LE. Use of a 2-Dose Schedule for Human Papillomavirus Vaccination - Updated Recommendations of the Advisory Committee on Immunization Practices. *MMWR Morb Mortal Wkly Rep*. 2016;65:1405-8.
[[PubMed Abstract](#)] -
- Ohnishi M, Saika T, Hoshina S, et al. Ceftriaxone-resistant *Neisseria gonorrhoeae*, Japan. *Emerg Infect Dis*. 2011;17:148-9.
[[PubMed Abstract](#)] -
- Panel on Treatment of Pregnant Women with HIV Infection and Prevention of Perinatal Transmission. Recommendations for the Use of Antiretroviral Drugs in Pregnant Women with HIV Infection and Interventions to Reduce Perinatal HIV Transmission in the United States. January 17, 2020.
[[HIV.gov](#)] -
- Patel P, Borkowf CB, Brooks JT, Lasry A, Lansky A, Mermin J. Estimating per-act HIV transmission risk: a systematic review. *AIDS*. 2014;28:1509-19.
[[PubMed Abstract](#)] -
- Schillie S, Murphy TV, Sawyer M, et al. CDC guidance for evaluating health-care personnel for hepatitis B virus protection and for administering postexposure management. *MMWR Recomm Rep*. 2013;62:1-19.
[[PubMed Abstract](#)] -
- Schillie S, Vellozzi C, Reingold A, et al. Prevention of Hepatitis B Virus Infection in the United States:

Recommendations of the Advisory Committee on Immunization Practices. MMWR Recomm Rep. 2018;67:1-31.

[\[PubMed Abstract\]](#) -

- Seña AC, Hsu KK, Kellogg N, et al. Sexual Assault and Sexually Transmitted Infections in Adults, Adolescents, and Children. Clin Infect Dis. 2015;61 Suppl 8:S856-64.
[\[PubMed Abstract\]](#) -
- Sonawane K, Suk R, Chiao EY, et al. Oral Human Papillomavirus Infection: Differences in Prevalence Between Sexes and Concordance With Genital Human Papillomavirus Infection, NHANES 2011 to 2014. Ann Intern Med. 2017;167:714-724.
[\[PubMed Abstract\]](#) -
- Stoltey JE, Cohen SE. Syphilis transmission: a review of the current evidence. Sex Health. 2015;12:103-9.
[\[PubMed Abstract\]](#) -
- Tanner MR, O'Shea JG, Byrd KM, et al. Antiretroviral Postexposure Prophylaxis After Sexual, Injection Drug Use, or Other Nonoccupational Exposure to HIV - CDC Recommendations, United States, 2025. MMWR Recomm Rep. 2025;74:1-56.
[\[PubMed Abstract\]](#) -
- U.S. Department of Justice Office on Violence Against Women. A National Protocol for Sexual Abuse Medical Forensic Examinations, Pediatric. April 2016.
[\[U.S. Department of Justice\]](#) -
- U.S. Department of Justice, Office of Justice Programs, National Institute of Justice. National Best Practices for Sexual Assault Kits: A Multidisciplinary Approach. August 8, 2017.
[\[U.S. Department of Justice\]](#) -
- Ucciferri C, Tamburro M, Falasca K, Sammarco ML, Ripabelli G, Vecchiet J. Prevalence of anal, oral, penile and urethral Human Papillomavirus in HIV infected and HIV uninfected men who have sex with men. J Med Virol. 2018;90:358-366.
[\[PubMed Abstract\]](#) -
- Workowski KA, Bachmann LH, Chan PA, et al. Sexually transmitted infections treatment guidelines, 2021. Sexual assault and abuse and STIs: adolescents and adults. MMWR Recomm Rep. 2021;70(No. RR-4):1-187.
[\[2021 STI Treatment Guidelines\]](#) -
- Wu T, Kwok RM, Tran TT. Isolated anti-HBc: The Relevance of Hepatitis B Core Antibody-A Review of New Issues. Am J Gastroenterol. 2017;112:1780-8.
[\[PubMed Abstract\]](#) -
- Yakely AE, Avni-Singer L, Oliveira CR, Niccolai LM. Human Papillomavirus Vaccination and Anogenital Warts: A Systematic Review of Impact and Effectiveness in the United States. Sex Transm Dis. 2019;46:213-20.
[\[PubMed Abstract\]](#) -
- Yasuda M, Ito S, Hatazaki K, Deguchi T. Remarkable increase of *Neisseria gonorrhoeae* with decreased susceptibility of azithromycin and increase in the failure of azithromycin therapy in male gonococcal urethritis in Sendai in 2015. J Infect Chemother. 2016;22:841-843.
[\[PubMed Abstract\]](#) -

Table 1.

HBV Nonoccupational Postexposure Prophylaxis Following Sexual Assault

HBV Status of Sexual Assault Survivor	HBsAg Status of Assailant		
	HBsAg Positive	HBsAg Status Unknown	HBsAg Negative
Unvaccinated	HBIG x 1, and HBV vaccine series (first dose now)	HBV vaccine series (first dose now)	HBV vaccine series (first dose now)
Partially vaccinated	HBIG x 1, and complete HBV vaccine series	Complete HBV vaccine series (give next dose in series now)	Complete HBV vaccine series (give next dose in series now)
Fully vaccinated but response to vaccine unknown	HBV vaccine booster dose x 1 (give dose now)	HBV vaccine booster dose x 1 (give dose now)	No treatment
Fully vaccinated with documented response to vaccine*	No treatment	No treatment	No treatment
Vaccine nonresponder [^]	HBIG x 2 (separated by 1 month)	HBIG x 2 (separated by 1 month)	No treatment

Abbreviations: HBV = hepatitis B virus; HBsAg = hepatitis B surface antigen; HBIG = hepatitis B immune globulin

*HBV vaccine responder is defined as a person with anti-HBs ≥ 10 mIU/mL after completing the HBV vaccine series.

[^]HBV vaccine nonresponder is defined as a person with anti-HBs < 10 mIU/mL after ≥ 6 doses of HBV vaccine.

Source:

- Tanner MR, O'Shea JG, Byrd KM, et al. Antiretroviral Postexposure Prophylaxis After Sexual, Injection Drug Use, or Other Nonoccupational Exposure to HIV - CDC Recommendations, United States, 2025. MMWR Recomm Rep. 2025;74:1-56. [[PubMed Abstract](#)]
- Workowski KA, Bachmann LH, Chan PA, et al. Sexually transmitted infections treatment guidelines, 2021. Sexual assault and abuse and STIs: adolescents and adults. MMWR Recomm Rep. 2021;70(No. RR-4):1-187. [[2021 STI Treatment Guidelines](#)]
- Workowski KA, Bolan GA; Centers for Disease Control and Prevention. Sexually transmitted diseases treatment guidelines, 2015. Sexual assault and abuse and STDs. MMWR Recomm Rep. 2015;64(No. RR-3):1-137. [[2015 STD Treatment Guidelines](#)]

**Table 1. 2021 STI Treatment Guidelines: Sexual Assault
Empiric Antimicrobial Treatment after Sexual Assault**

Recommended Regimen for Adolescent and Adult Female Sexual Assault Survivors			
Ceftriaxone <i>500 mg* IM in single dose</i>	+	Doxycycline <i>100 mg orally twice daily for 7 days[^]</i>	+
			Metronidazole <i>500 mg orally twice daily for 7 days</i>
[^] For pregnant women, oral azithromycin 1 gram in a single dose is recommended to treat chlamydia in place of doxycycline. Note: *For persons weighing ≥150 kg, 1 g of ceftriaxone should be administered.			

Recommended Regimen for Adolescent and Adult Male Sexual Assault Survivors	
Ceftriaxone <i>500 mg* IM in single dose</i>	+
	Doxycycline <i>100 mg orally twice daily for 7 days</i>
Note: *For persons weighing ≥150 kg, 1 g of ceftriaxone should be administered.	

Source: Workowski KA, Bachmann LH, Chan PA, et al. Sexually transmitted infections treatment guidelines, 2021. Sexual assault and abuse and STIs. MMWR Recomm Rep. 2021;70(No. RR-4):1-187. [[2021 STI Treatment Guidelines](#)]

Table 2.

Estimated Per-Act Probability of Acquiring HIV from a Source with HIV, by Exposure Act*

Exposure Type	Rate for HIV Acquisition per 10,000 Exposures
Parenteral	
Blood transfusion	9,250
Needle sharing during injection drug use	63
Percutaneous (needlestick)	23
Sexual	
Receptive anal intercourse	138
Insertive anal intercourse	11
Receptive penile-vaginal intercourse	8
Insertive penile-vaginal intercourse	4
Receptive oral intercourse	Low
Insertive oral intercourse	Low
Other[^]	
Biting	Negligible
Spitting	Negligible
Throwing body fluids (including semen or saliva)	Negligible
Sharing sex toys	Negligible

*Factors that may increase the risk of HIV transmission include sexually transmitted diseases, acute and late-stage HIV infection, and high viral load. Factors that may decrease the risk include condom use, male circumcision, antiretroviral treatment, and preexposure prophylaxis. None of these factors are accounted for in the estimates presented in the table.

[^]HIV transmission through these exposure routes is technically possible but unlikely and not well documented.

Source:

- Centers for Disease Control and Prevention, U.S. Department of Health and Human Services. Updated Guidelines for Antiretroviral Postexposure Prophylaxis After Sexual, Injection Drug Use, and Other Nonoccupational Exposure to HIV – United States, 2016. [[CDC](#)]
- Patel P, Borkowf CB, Brooks JT, Lasry A, Lansky A, Mermin J. Estimating per-act HIV transmission risk: a systematic review. AIDS. 2014;28:1509-19. [[PubMed Abstract](#)]

Table 3. 2025 CDC Recommendations for Nonoccupational Postexposure Prophylaxis after Exposure to HIV

Preferred and Alternative Regimens for HIV Nonoccupational PEP in Adults and Adolescents*

Adults and Adolescents Aged ≥12 years (with creatinine clearance ≥50 mL/min)	
Preferred	Integrase Strand Transfer Inhibitor PLUS Two Nucleoside Reverse Transcriptase Inhibitors <ul style="list-style-type: none"> • Bictegravir-tenofovir alafenamide-emtricitabine • Dolutegravir PLUS (tenofovir alafenamide OR tenofovir DF) PLUS (emtricitabine OR lamivudine)
Alternative	Boosted Protease Inhibitor PLUS Two Nucleoside Reverse Transcriptase Inhibitors <ul style="list-style-type: none"> • (Darunavir-cobicistat OR Darunavir and ritonavir) PLUS (tenofovir alafenamide OR tenofovir DF)
Pregnant Women (with creatinine clearance ≥50 mL/min)	
Preferred	Integrase Strand Transfer Inhibitor PLUS Two Nucleoside Reverse Transcriptase Inhibitors <ul style="list-style-type: none"> • Bictegravir-tenofovir alafenamide-emtricitabine • Dolutegravir PLUS (tenofovir alafenamide OR tenofovir DF) PLUS (emtricitabine OR lamivudine)
Alternative	Boosted Protease Inhibitor PLUS Two Nucleoside Reverse Transcriptase Inhibitors <ul style="list-style-type: none"> • Darunavir and ritonavir (twice daily) PLUS (tenofovir alafenamide OR tenofovir DF) PLUS (emtricitabine OR lamivudine)

*The regimens within categories are listed in alphabetical order and not to preference.

Source:

- Tanner MR, O'Shea JG, Byrd KM, et al. Antiretroviral Postexposure Prophylaxis After Sexual, Injection Drug Use, or Other Nonoccupational Exposure to HIV - CDC Recommendations, United States, 2025. MMWR Recomm Rep. 2025;74:1-56. [[PubMed Abstract](#)]

Table 4.

HIV Nonoccupational PEP: Recommended Laboratory Monitoring of Source and Exposed Persons

Test	Source	Exposed			
	Baseline	Baseline	4-6 Weeks after exposure	12 weeks	
		All persons evaluated for r			
Rapid (point-of-care) or laboratory-based HIV Ag/Ab test) [†]	✓	✓	✓ [§]	✓	—
HIV diagnostic NAT [¶]	✓ ^{**}	✓ ^{**}	✓ [§]	✓	—
HBV serology, including: HBsAg, HBsAb, and HBcAb	✓	✓ ^{††}	—	—	If HBV nonimmune at baseline
HCV antibody testing	—	✓ ^{§§}	—	—	If follow-up testing r e commended ^{¶¶}
HCV RNA NAT	✓ ^{***}	—	If follow-up testing r e commended ^{†††}	—	—
Syphilis serology ^{§§§}	✓	✓	✓ ^{§§§}	✓ ^{§§§}	—
Gonorrhea NAAT ^{****}	✓	✓	—	—	—
Chlamydia NAAT ^{****}	✓	✓	—	—	—
Pregnancy test ^{††††}	—	✓	✓	—	—
		All persons considered for			
Serum creatinine		✓		Only if abnormalities at baseline	
Alanine aminotransferase and aspartate aminotransferase		✓		Only if abnormalities at baseline or symptomatic	

Abbreviations: Ag/Ab = antigen/antibody combination test; ARV = antiretroviral; HBcAb = hepatitis B core antibody; surface antigen; HBV= hepatitis B virus; HCV = hepatitis C virus; NAT = nucleic acid test; NAAT = nucleic acid amplification test; prophylaxis; PEP = postexposure prophylaxis; STI = sexually transmitted infection.

*Any person diagnosed with an infection or condition through testing should be informed and treated or referred for further care.

[†]If a rapid (point-of-care) HIV Ag/Ab test is used, a laboratory-based HIV Ag/Ab test obtained at the same time will suffice while awaiting laboratory results. If the preferred HIV diagnostic test is not accessible, the most sensitive available test should be used.

[§]HIV testing 4–6 weeks post-nPEP initiation can be deferred for persons who started nPEP within 24 hours of exposure to this time.

[¶]NATs that detect HIV RNA include qualitative tests for diagnosis (e.g., HIV-1 RNA assay) and quantitative tests for monitoring treatment response. HIV RNA NAT is recommended because they are more likely than viral load tests to detect very low levels of HIV. If the preferred HIV NAT test should be used; inability to access HIV NAT should not prevent provision of HIV nPEP to persons with indications for PEP.

^{**}HIV NAT recommended at baseline assessment for persons with injectable ARV exposure during the past 6 months.

^{††}HBV PEP recommendations vary by the exposed person's HBV immune status, and by the source's HBV status (whether source is known or unknown).

^{§§}Reflex to HCV RNA NAT if HCV antibody test is positive. Add HCV RNA NAT to original order if signs and symptoms of liver disease (e.g., jaundice, elevation of liver enzymes).

^{¶¶}If follow-up testing is recommended based on the source's status (e.g., HCV RNA positive or HCV antibody test is positive or unknown), and HCV RNA NAT is negative 3–6 weeks postexposure, a final test for HCV antibodies 4–6 months postexposure is recommended.

Test	Source	Exposed		
	Baseline	Baseline	4-6 Weeks after exposure	12 weeks
		All persons evaluated for r		
***HCV RNA NAT is preferred for testing of the source, but if not accessible, HCV antibody testing with reflex HCV RNA NAT is preferred.				
††If follow-up testing is recommended based on the source's status (e.g., HCV RNA positive or positive HCV antibody unknown), HCV RNA NAT is recommended for the exposed persons 3–6 weeks postexposure.				
†††If initial syphilis testing negative and infection in the source cannot be ruled out, follow-up testing may be performed 3–6 weeks postexposure.				
****NAATs are recommended for <i>Chlamydia trachomatis</i> and <i>Neisseria gonorrhoeae</i> at exposure sites (e.g., pharynx) 3–6 weeks postexposure if no presumptive treatment was provided and initial test results were negative. Repeat testing is recommended for STIs. Certain experts would also perform a NAAT for <i>Trichomonas vaginalis</i> from a urine or vaginal specimen for women.				
††††For all women of child-bearing potential who are not known to be pregnant.				

Source:

- Tanner MR, O'Shea JG, Byrd KM, et al. Antiretroviral Postexposure Prophylaxis After Sexual, Injection Drug Use, or Other Nonoccupational Exposure to HIV - CDC Recommendations, United States, 2025. MMWR Recomm Rep. 2025;74:1-56. [\[PubMed Abstract\]](#)

Table 5.

Baseline Laboratory Testing

Laboratory Test	Sexual Assault Survivor	Alleged Assailant
Hepatitis B surface antibody (anti-HBs)	Negative	Negative
Hepatitis B surface antigen (HBsAg)	Negative	Positive
Hepatitis B core antibody (anti-HBc)	Negative	Positive
Hepatitis C antibody	Negative	Negative
HIV-1/2 antigen-antibody	Negative	Negative

Table 6.

Baseline HBV Serologic Results

HBsAg	anti-HBs	anti-HBc	Interpretation	Recommended Action
(+)	(-)	(+)	Chronic HBV infection	Link to care for HBV treatment
(+)	(-)	IgM (+)	Acute HBV infection	Link to care for management and follow-up
(-)	(+)	(+)	Resolved HBV infection	Reassurance
(-)	(+)	(-)	Immune to HBV	Reassurance
(-)	(-)	(-)	Susceptible to HBV (non immune)	Vaccinate
(-)	(-)	(+)	"Isolated anti-HBc" may represent (1) prior HBV infection, (2) a false-positive test, (3) occult HBV infection, or (4) window phase of acute HBV infection	Expert consultation advised to determine optional further evaluation and management.

Abbreviations: HBV= hepatitis B Virus; HbsAg = hepatitis B surface antigen; anti-HBs = hepatitis B surface antibody; anti-HBc = hepatitis B core antibody

Table 7.

Implications of Diagnosis of Sexually Transmitted Infections and Reporting in Prepubertal Children and Infants

Sexually Transmitted Infection	Sexual Abuse	Suggested Action
<i>Chlamydia trachomatis</i>	Diagnostic*	Report
<i>Neisseria gonorrhoeae</i>	Diagnostic*	Report
HIV	Diagnostic**	Report
Syphilis	Diagnostic*	Report
<i>Trichomonas vaginalis</i>	Highly suspicious	Report
Anogenital warts	Suspicious*	Report
Herpes simplex virus (genital location)	Suspicious^	Report
Bacterial vaginosis	Inconclusive	Medical follow-up

*If not acquired perinatally and rare, nonsexual vertical transmission can be excluded.

**If not acquired perinatally, through breastfeeding, or transfusion.

^Autoinoculation should be excluded.

Adapted from: Kellogg N. The evaluation of sexual abuse in children. Pediatrics. 2005;116:506-12.

Source:

- Kellogg N. The evaluation of sexual abuse in children. Pediatrics. 2005;116:506-12. [[PubMed Abstract](#)]

