

Management of Occupational Exposures to HIV and Recommendations for PEP in Healthcare Settings

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Disclosures

This talk will include discussion of non-FDA approved strategies for HIV prevention. There are no medications with an FDA-approved indication for use as post-exposure prophylaxis (PEP).

I have no conflicts of interest or relationships to disclose.

Disclaimer

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CDC Clinical Recommendations

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Review

2025 US Public Health Service Guidelines for the Management of Occupational Exposures to Human Immunodeficiency Virus and Recommendations for Post-exposure Prophylaxis in Healthcare Settings

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<https://www.cambridge.org/core/journals/infection-control-and-hospital-epidemiology/article/2025-us-public-health-service-guidelines-for-the-management-of-occupational-exposures-to-human-immunodeficiency-virus-and-recommendations-for-postexposure-prophylaxis-in-healthcare-settings/>



Updated US Public Health Service guidelines for the management of occupational exposures to human immunodeficiency virus and recommendations for postexposure prophylaxis

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U.S. Centers for Disease Control and Prevention

MMWR

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**Antiretroviral Postexposure Prophylaxis After
Sexual, Injection Drug Use, or Other
Nonoccupational Exposure to HIV —
CDC Recommendations, United States, 2025**

What's new in the 2025 guidelines?

- New regimens
- Shortened duration of post-exposure follow-up
- Elimination of routine lab tests for toxicity
- Considerations with source patients with undetectable HIV RNA

Emphasis

1. Primary prevention of exposures.
2. Prompt reporting and initiation of PEP ASAP.
3. Best tolerated PEP regimens with fewest side effects.
4. Attention to drug-drug interactions.
5. Consultation for complex cases.
6. HIV testing of source patients w/o delaying PEP.
7. Counseling and f/u of healthcare personnel (HCP).

What is an at-risk exposure?

- Percutaneous injury (risk 0.23%, 95% CI 0.00%-0.46%) or Contact of mucous membranes (0.09%, 95% CI 0.006%-0.5%) or non-intact skin
(nPEP: case-by-case determination)
- Human bites (nPEP: not routinely recommended)

AND

- Blood, tissue or body fluids that are potentially infectious
 - Blood + visibly bloody body fluids
 - Semen, preseminal fluid, vaginal fluid, rectal fluid, breast milk
 - CSF, synovial, pleural, peritoneal, pericardial, or amniotic fluids
- Not infectious unless visibly bloody
 - Urine, feces, vomitus
 - Nasal secretions, saliva, sputum, sweat and tears

Timing: "Initiation of PEP after exposure is an urgent matter.."

"Initiate PEP as soon as possible, up to 72 hours following the occupational exposure to HIV. When considering initiation of PEP after 72 hours following occupational exposures thought to represent a high risk of transmission, consult a provider with expertise in HIV treatment."

- **2015**: Initiating therapy after a longer interval (e.g., 1 week) might still be considered for exposures that represent an extremely high risk for transmission.
- **nPEP**: Health care professionals should ensure the first dose of nPEP is provided as soon as possible, and ideally within 24 hours, but no later than 72 hours after exposure.

Source patient

- Determine HIV status of source patient whenever possible, but do not delay PEP. POC testing is recommended for speed, and additional testing is only recommended if clinical suspicion of AHI.
- Do not test needles or other sharps for HIV.
 - (nPEP not recommended for discarded needles unless exceptional circumstances)
- Discontinue PEP and f/u testing if source patient is HIV-negative.
- If source patient has drug-resistant HIV
 - Consult a provider with expertise in HIV treatment, but do not delay PEP.
 - Modify PEP regimen if appropriate.

When to consult a provider with expertise in HIV treatment, and use shared decision making about PEP.

- If source patient known to be living with HIV and has undetectable HIV RNA levels.
 - **nPEP**: "nPEP not routinely recommended."
- If source patient is unknown (e.g. needle in sharps container).
- If HCP is taking PrEP or has received CAB in last 12 months.
 - **nPEP**: if taking PrEP as recommended, "nPEP not recommended."
- Pregnancy, breastfeeding, moderate/severe renal dysfunction (CrCl <49mL/min), hepatic impairment.
- Intolerance or toxicity with PEP regimen.

What to use (28 days)

- Preferred
 - BIC/FTC/TAF
 - DTG + (TAF or TDF) + (FTC or 3TC)
- Alternative
 - Boosted DRV (w coBI- or RTV) + (TAF or TDF) + (FTC or 3TC)
- Acceptable
 - Raltegravir-based regimen
- Do not use
 - Nevirapine, cabotegravir/rilpivirine

Baseline laboratory testing

- Ag/Ab HIV test (POC or lab)
- HIV NAT if received CAB for PrEP in last 12 months
 - Qualitative NAT preferred due to higher sensitivity at low RNA levels
- Serum creatinine, AST, ALT
- Pregnancy testing, HBV, HCV not listed in this document

Counseling messaging

- Importance of adherence to PEP.
- Precautions to prevent secondary transmission until final testing.
- Side effects and drug-drug interactions.
- Symptoms of acute HIV infection.
- Reassessment at 72 hours.

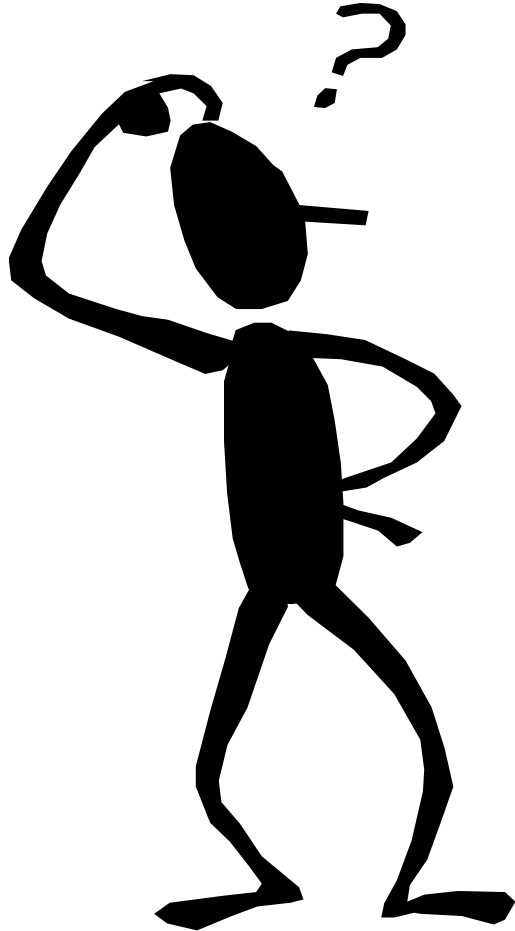
Follow-up laboratory testing

- 4-6 wks: HIV Ag/Ab + NAT if PEP started >24 hrs or missed any dose.
- 12 wks post exposure (8 weeks post-PEP): HIV Ag/Ab + NAT.
- Repeat creatinine or LFTs only if abnormal baseline or signs/sx or on case-by-case basis depending on comorbidities.
- Symptoms of AHI → lab-based Ag/Ab + NAT.

Related guidelines

- CDC Guidance for Evaluating Health-Care Personnel for Hepatitis B Virus Protection and for Administering Postexposure Management
<https://www.cdc.gov/mmwr/preview/mmwrhtml/rr6210a1.htm>
- Testing and Clinical Management of Health Care Personnel Potentially Exposed to Hepatitis C Virus — CDC Guidance, United States, 2020
<https://www.cdc.gov/mmwr/volumes/69/rr/rr6906a1.htm>
- Recommendations for the Use of Antiretroviral Drugs During Pregnancy and Interventions to Reduce Perinatal HIV Transmission in the United States
<https://clinicalinfo.hiv.gov/en/guidelines/perinatal/whats-new>

Questions?



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