CLINICAL PATHWAY:

HIV PEP (Post-Exposure Prophylaxis)

THIS PATHWAY SERVES AS A GUIDE AND DOES NOT REPLACE CLINICAL

PEP not

Exposures to saliva, urine, vomitus or feces are low-risk for transmission of HIV; consult ID on call if considering HIV PEP for these exposures.

² Hiah risk for being HIV+ includes persons who: use intravenous drugs, engage in male-male sex, have multiple sexual partners, exchange sex for money or drugs, or have sex with persons presumed to be HIV+. Sexual assaults with multiple assailants or significant trauma to the vaginal or anal mucosa are also considered high risk.

³ PEP is most effective if started as soon as possible, ideally within 24 Inclusion Criteria: Presents after a sexual or high-risk encounter with the following:

- Anal, vaginal, percutaneous or oral exposure to possibly or definitely HIV infected blood or semen or genital fluids? 1,2
- AND exposure occurred within 72 hours of presentation?³

indicated

Yes • Initial Work-Up/Management:

- CBC w diff, CMP, HIV testing (screening antibody test), hepatitis B surface antibody and surface antigen, hepatitis C antibody
- If sexual assault: add urine HcG, syphilis screen, GC/Chlamydia; Consult SCAN
- If source is known or presumed to be HIV+: consult ID

Does patient/family Call One-Call 1-833-PEDS-NOW (1-833-733-7669) No▶ to place an urgent referral to ID (not routine) consent to treatment and follow up? Yes

Initiate 3-drug regimen for 28 days [Appendix A]

Infants >30 days (and ≥42 weeks post-conceptual age) and <2 years old:

Use all three medications

- Lamivudine (oral solution 10 mg/ml):
- 4 mg/kg/dose BID (max 150 mg/dose) Zidovudine (oral solution 10 mg/ml)

 - 4 kg <9 kg: 12 mg/kg/dose BID
 - 9 kg <30 kg: 9 mg/kg/dose BID
 - ≥30 kg: 300 mg/dose BID
- Kaletra [Lopinavir/Ritonavir] (oral solution 400 mg-100 mg/5ml):
 - ≤12 mo: 300 mg/m²/dose BID (or 16 mg/kg/dose BID)
 - >12 mo: dose based on weight
 - <15 kg: 12 mg/kg/dose BID
 - 15-40 kg: 10 mg/kg/dose BID
 - >40 kg: 400 mg BID
 - If >10 kg and can chew, can substitute Kaletra with Raltegravir (see below for dosing)

≥ 2 years old AND <40 kg (or ≥40 kg and cannot swallow tablets):

Use all three medications.

- Tenofovir (powder for suspension or 300 mg tablets)
 - 8 mg/kg (max 300 mg) PO once daily Emtricitabine (oral solution 10 mg/5 ml)
- 6 mg/kg (max 240 mg) PO once daily
- Raltegravir (chewable tablets 25 mg)
 - 11- <14 kg: 75 mg PO BID
 - 14- <20 kg: 100 mg PO BID
 - 20- <28 kg: 150 mg PO BID
 - 28- <40 kg: 200 mg PO BID
 - 40 kg or >12 yo: 300 mg PO BID OR 400 mg film-coated tablet PO BID

≥2 years old AND ≥40 kg AND can swallow tablets:

Use both medications:

- Truvada (Tenofovir 300 mg & Emtricitabine 200 mg) 1 tablet once daily
- Isentress (Raltegravir 400 mg film tablet) 1 tablet twice daily

For patients with estimated CrCl ≤59 ml/min: Use all three medications

Renal Dysfunction Dosing:

- Raltegravir
 - Dosed based on weight
- Zidovudine
 - Dose adjusted based on renal function
- Lamivudine
 - Dose adjusted based on renal function

Please contact the pharmacy for help with appropriate dosing based on patient's estimated renal function.

Discharge Instructions

- Medication delivery: order as inpatient med for 3 days worth (inpatient pharmacy to dispense)
 - Give Rx for outside pharmacy for remaining 25 day supply
 - Instruct family to call Infectious Disease at 860-545-9490 if issues with picking up medications
- Any patient who is discharged with medications for PEP must receive patient education sheets for each drug from Lexicomp
- Infectious Disease follow-up arranged prior to discharge:
 - Call One-Call at 1-833-PEDS-NOW (1-833-733-7669) to place an urgent referral to ID (not routine)
- ID RN will call patient within 3-4 business days. Will be seen in clinic at 4 weeks, 3 months (optional) and 6 months post-encounter Encourage all patients to release medical records to their PCP

NEXT PAGE





THIS PATHWAY SERVES AS A GUIDE AND DOES NOT REPLACE CLINICAL JUDGMENT.

Formulations, cautions, and dose adjustments for antiretroviral medications in preferred and alternative nPEP regimens

| Drug | Formulation | Side effects, contraindications, and cautions | Dose adjustments |
|--|--|---|--|
| Tenofovir disoproxil fumarate (TDF) (Viread) Also available as component of fixed-dose combination, Truvada (200 mg emtricitabine + 300 mg TDF) | 300 mg tablet 40 mg/gm powder | Side effects: Asthenia, headache, diarrhea, nausea, vomiting Contraindications: Nephrotoxicity; for nPEP, should not be administered to persons with acute or chronic kidney injury or those with eCrCl < 60 mL/min Cautions: TDF can be used in nPEP regimens for patients with chronic hepatitis B infection, but hepatic function tests should be closely monitored when regimen is stopped because withdrawal of this drug may cause an acute hepatitis exacerbation. | Children aged 2–11 years (powder) • 8 mg/kg body weight • Not to exceed adult dose (300 mg daily) • Children aged 2–11 years (tablet), per body weight • 17 to < 22 kg: 150 mg tablet once daily • 22 to < 28 kg: 200 mg tablet once daily • 28 to < 35 kg: 250 mg tablet once daily • ≥ 35 kg: 300 mg tablet once daily • Not to exceed adult dose (300 mg once daily) |
| Emtricitabine (FTC) (Emtriva) Also available as component of fixed-dose combination, Truvada (200 mg FTC + 300 mg TDF) | 200 mg capsule 10 mg/mL oral solution | Side effects: Hyperpigmented rash or skin discoloration Cautions: FTC can be used in nPEP regimens for patients with chronic hepatitis B infection, but hepatic function tests should be closely monitored when regimen is stopped because withdrawal of this drug might cause an acute hepatitis exacerbation. Contraindications: Do not administer with lamivudine | Children aged 1–3 months (oral solution) • 3 mg/kg once daily • Not to exceed 240 mg once daily Children aged 3 months–17 years, per body weight • 6 mg/kg once daily (oral solution) • ≥ 33 kg: 200 mg tablet once daily • Not to exceed 240 mg once daily |
| Raltegravir (RAL) (Isentress) | 25 mg chewable tablet 100 mg chewable, scored tablet 400 mg tablet | Side effects: Insomnia, nausea, fatigue, headache; severe skin and hypersensitivity reactions have been reported Cautions: Dosage adjustment required if co-administered with rifampin (800 mg twice daily for adults). Co-administration with antacids, laxatives, or other products containing polyvalent cations (Mg, Al, Fe, Ca, Zn), including iron, calcium, or magnesium supplements; sucralfate; buffered medications; and certain oral multivitamins can reduce absorption of RAL. RAL should be administered ≥ 2 hours before or ≥ 6 hours after administration of cation-containing medications or products, however, RAL can be co-administered with calcium carbonate-containing antacids. Contraindications: None | Children aged 2–12 years (chewable tablets), per body weight 11 to < 14 kg: 75 mg twice daily 14 to < 20 kg: 100 mg twice daily 20 to < 28 kg: 150 mg twice daily 28 to < 40 kg: 200 mg twice daily 28 to < 40 kg: 200 mg twice daily Children aged 6–12 years and weighing > 25 kg 400 mg-tablet twice daily Or Chewable tablets twice daily. See table above or chewable tablet dose. |









CLINICAL PATHWAY: HIV PEP (Post-Exposure Prophylaxis)

Appendix A: Antiretroviral Medications in nPEP Regimens [Derived from CDC 2016 Guidelines]

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| Drug | Formulation | Side effects, contraindications, and cautions | Dose adjustments |
|---|---|--|--|
| Lopinavir (LPV)/ritonavir (RTV) (Kaletra) | 200/50 mg tablets | Side effects: Nausea, vomiting, diarrhea | Children aged 14 days-12 months, per body weight |
| | 80/20 mg/mL oral solution | Cautions: PR and QT interval prolongation have been reported. Use with caution with patients at risk for cardiac conduction abnormalities or receiving other drugs with similar effect. | Suspension (lopinavir/ritonavir) • 16/4 mg/kg or 300/75 mg/m ² twice daily |
| | | or receiving other drugs with similar effect. Do not administer to neonates before a postmenstrual age (first day of the mother's last menstrual period to birth plus the time elapsed after birth) of ≥ 42 weeks and a postnatal age of ≥ 14 days. Contraindications: Co-administration of ritonavir with certain sedative hypnotics, antiarrhythmics, sildenafil, or ergot alkaloid preparations is contraindicated and might result in potentially life-threatening adverse events. | Children aged > 12 months-18 years, per body weight Suspension (lopinavir/ritonavir) ■ < 15 kg: 12/3 mg/kg twice daily ■ ≥ 15 kg to 40 kg: 10/2.5 mg/kg twice daily ■ > 40 kg: 400/100 mg twice daily ■ Not to exceed the recommended adult dose (400/100 mg [5 mL] twice daily Children aged > 12 months-18 years |
| | | | Tablet, weight-based dosing (lopinavir/ritonavir) • 15 to 25 kg: 2 100/25-mg tablets twice daily • > 25 to 35 kg: 3 100/25-mg tablets twice daily • > 35 kg: 4 100/25 mg tablets twice daily or 2 200/50 mg tablets twice daily |
| Lamivudine (3TC) (Epivir) | 150 mg scored tablet 10 mg/mL oral solution | Side effects: Headache, nausea, malaise and fatigue, nasal signs and symptoms, diarrhea, and cough Cautions: 3TC may be used in nPEP regimens for patients with chronic hepatitis B infection, but hepatic function tests should be closely monitored when regimen is stopped since withdrawal of this drug may cause an acute hepatitis exacerbation. Contraindications: Do not administer with emtricitabine | Children, aged ≥ 4 weeks Oral solution 4 mg/kg (maximum dose 150 mg) twice daily Children aged < 16 years and weighing ≥ 14 kg Scored 150 mg tablet 14 to < 20 kg, 75 mg (1/2 tablet) AM + 75 mg (1/2 tablet) PM 20 to < 25 kg, 75 mg (1/2 tablet) AM + 150 mg (1 tablet) PM ≥ 25 kg, 150 mg tablet twice daily Adolescents (aged ≥ 16 years) and adults, per body weight < 50 kg: 4 mg/kg (up to 150 mg) twice daily ≥ 50 kg: 150 mg twice daily or 300 mg once daily |









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| Drug | Formulation | Side effects, contraindications, and cautions | Dose adjustments |
|---|--|---|--|
| Zidovudine (ZDV; AZT) (Retrovir, ViiV Healthcare, Brentford, Middlesex, United Kingdom) | 100-mg capsule 300-mg tablet 10-mg/mL oral syrup | Side effects: Nausea, vomiting, headache, insomnia, and fatigue Cautions: Can cause anemia and neutropenia | Infants aged birth–41 days Full term (aged ≥ 35 weeks gestation at birth), per body weight Syrup • 4 mg/kg orally twice daily Intravenous ^C • 3.0 mg/kg, infused over 30 minutes, every 12 hours Premature (aged ≥ 30 to 35 weeks gestation at birth; from birth through day 14 of life; switch to full term infant dose at 15 days of life), per body weight Syrup • 2 mg/kg orally twice daily Intravenous ^C • 1.5 mg/kg, infused over 30 minutes, every 12 hours Premature (aged < 30 weeks gestation at birth; day 14–28 of life; switch to full term infant dose at 29 days* of life), per body weight Syrup • 2 mg/kg orally twice daily Intravenous ^C • 1.5 mg/kg, infused over 30 minutes, every 12 hours Infants and children aged ≥35 weeks post-conception and at least 4 weeks post-delivery, per body weight Syrup or Capsules • 4 to < 9 kg, 12 mg/kg twice daily • 9 to < 30 kg, 9 mg/kg twice daily Tablet • ≥ 30 kg, 300-mg tablet twice daily * Note: Premature infants exposed to HIV after day 1 of life are switched to full-term infant dose at 29 days of life. |





