Introduction to non-occupational post-exposure prophylaxis (PEP) from sexual assault - Pediatrics

- HIV PEP should be initiated < 72 hours after exposure. Ideally HIV PEP should be given as soon as possible after exposure, preferably within 2 hours. For high risk exposures, over 72 hours, consult Pediatric Infectious Diseases for patients <21 years old.
- The recommendation for PEP should be communicated simply and clearly to the patient, considering his/her emotional state and ability to comprehend the nature of antiretroviral treatment.
- If a sexual assault victim is too distraught to engage in a discussion about PEP or make a decision about whether to initiate prophylaxis at the initial assessment; the clinician should offer a starter pack of medication and make arrangements for a follow-up appointment within 24 hours to further discuss the indications for PEP.
- If the source person is known to be HIV-infected and information is immediately available regarding past and present antiretroviral therapy (ART) experience, current level of viral suppression, or resistance profile, the treating clinician, in consultation with a clinician experienced in managing PEP, should individualize the PEP regimen to maximize potential effectiveness against the exposed HIV strain. Initiation of the first dose and continuation of PEP should never be delayed while awaiting this information. If indicated, the regimen can be changed when more information becomes available.
- If a sexual assault victim decides to initiate treatment, a follow-up visit should be scheduled within 24 hours to review the decision, evaluate initial drug tolerability, reinforce the need for adherence to the regimen, and arrange for follow-up care.
- Discussions regarding initiation of PEP should include the following:
- Potential benefit, unproven efficacy, and potential toxicity of PEP
- Duration of PEP regimen (28 days)
- •Importance of adherence to the treatment regimen to prevent PEP failure or the development of drug resistance should infection occur.
- •Need to reduce risk and prevent exposure to others: during the 12-week follow-up period HIV-exposed individuals should be advised to: use condoms to prevent potential sexual transmission, avoid pregnancy and breastfeeding, avoid needle-sharing, refrain from donating blood.
- °Clinical and laboratory monitoring and follow-up schedule:
- Lab monitoring: After baseline HIV testing is performed at the time of initial encounter, sequential confidential HIV testing should be obtained at week 4, and week 12 post-exposure. If the post-exposure evaluation determined that PEP was indicated, but the exposed person declines PEP, serial testing should still be obtained.
- Clinical evaluation weekly while receiving PEP to assess treatment adherence, side effects of treatment, interval physical complaints, and emotional status.
- Signs and symptoms of acute HIV infection (fever, rash, swollen glands, sore throat).

PEP for sexually transmitted infections (STIs) other than HIV

■ For sexual assault victims, clinicians should offer prophylactic medication to prevent gonococcal and chlamydial infections. Routine baseline testing for STIs (gonorrhea, chlamydia, syphilis) is not recommended in cases of sexual assault because results of that testing may detect a STI present prior to or one transmitted at the time of the assault. This information can be used to bias a jury against a victim in court. If the patient refuses STI prophylaxis then GC/Chlamydia and trichomonas specimens should be sent to the Lab.

Pregnancy Testing

• Clinicians should obtain baseline pregnancy testing for sexual assault victims who are of childbearing age.

Emergency Contraception

■ Emergency contraception should be discussed and offered to individuals who could become pregnant as a result of the assault.

Baseline labs:

CBC

CMP

HIV testing (rapid antibody or 4th generation Ag/Ab combo).

- -PEP should be initiated without waiting for the results of the HIV test.
- -Refusal to undergo baseline testing should not preclude initiation of PEP.

Hepatitis B surface Antigen and Hepatitis B surface Antibody

Hepatitis C antibody

Pregnancy test

HIV PEP regimen: 28 day supply

≥12 years old and ≥35kg: tenofovir disoproxil/emtricitabine + raltegravir

≥2- <12 years old or ≤35kg or can't swallow pills: tenofovir disoproxil+ emtricitabine + raltegravir

<2 years old: zidovudine+ lamivudine + raltegravir

Patients should be sent home from the ER with a 7 day starter pack with follow up at:

- Jack Martin Clinic (212-241-7968) has sessions Monday and Thursday

- PEP hotline: 844-PEPNYC or 844-373-7692

Hepatitis B Post Exposure Prophylaxis:

■ When indicated, Hepatitis B immune globulin (HBIG) and hepatitis B vaccine should be administered as soon as possible after exposure preferably within 24 hours. Hepatitis B vaccine may be administered simultaneously with HBIG in a separate injection site.

Source positive

If source known to be positive, patient not vaccinated or incompletely vaccinated: give HBIG + Hep B vaccine

If source known to be positive, patient fully vaccinated (written documentation preferred), response to vaccine unknown: give Hep B vaccine

Source unknown

If source is unknown and patient is unvaccinated or incompletely vaccinated: Vaccine

If source is unknown, patient is completely vaccinated, response to vaccine known anti-HBs10 mIU/mL or higher: no need to vaccinate, do not give either HBIG or Hep B vaccine

If source is unknown, patient is completely vaccinated, response to vaccine unknown: no immediate prophylaxis, provider will check Hep B surface antibody result at follow up clinic visit and if deemed a nonresponder will initiate revaccination series

Source negative:

Does not need to be vaccinated for Hep B, can vaccinate anyone who is unvaccinated, incompletely vaccinated or a known nonresponder

STI prophylaxis

Gonorrhea: <45kg = Ceftriaxone 25-50 mg/kg IM x I (maximum dose of I25mg IM)

>45kg = Ceftriaxone 250 mg IM x I

Chlamydia: <45kg = Azithromycin 20 mg/kg PO xI

>45 kg = Azithromycin Igram PO xI or alternative (doxycycline I00mg PO twice daily x7 days)

Trichomoniasis: <45kg = Metronidazole 45 mg/kg/day PO divided into 3 doses x7 days

>45kg =Metronidazole 2 grams PO xI

HPV vaccine: females 9-26 years old and males 9-21 years old

References

New York State Department of Health and Aids Institute Clinical Guidelines

Aidsinfo.gov: Updated Guidelines for Antiretroviral Postexposure Prophylaxis after Sexual, Injection Drug Use, or Other Nonoccupational Exposure to HIV—United States, 2016 from the Centers for Disease Control and Prevention, U.S. Department of Health and Human Services

http://www.hivguidelines.org/pep-for-hiv-prevention/after-sexual-assault/#tab 4

Drug	Formulation	Dose					
Emtricitabine (Emtriva®)	200 mg capsule	Aged 0 to < 3 months: 3 mg/kg once daily (maximum dose 240 mg once daily)					
(FTC)	10 mg/mL oral solution						
		Aged 3 months – 17 years					
		Body weight (kg)	Dose	Dose			
		≤ 33 kg	J. J	e daily (oral solution) lose: 240 mg once daily)			
		> 33 kg	200 mg once	e daily (tablet)			
Lamivudine (Epivir®)	100 mg tablet	Aged birth to < 4 weeks (> 32 weeks gestation at birth): 2 mg/kg twice daily					
(3TC)	150 mg scored-tablet	Aged ≥ 4 weeks to < 3 months: 4 mg/kg twice daily					
	300 mg tablet	Aged ≥ 3 months to < 3 years: 5 mg/kg twice daily (maximum dose 150 mg)					
	10 mg/mL oral solution	Aged ≥ 3 years: 5 mg/kg twice daily (maximum dose 150 mg) or 10 mg/kg once daily (maximum dose					
		300 mg)					
		< 14 kg – use oral solution Aged ≥ 3 years and ≥ 14 kg – use 150 mg scored-tablet					
			Dosage regimen using scored 150 mg				
			tablet				
		Body weight (kg)	Morning dose	Evening dose	Total daily dose		
		14 - <20	75 mg	75 mg	150 mg		
		20 - <25	75 mg	150 mg	225 mg		
		≥ 25	150 mg	150 mg	300 mg		

(ZDV; AZT)		Ageu bii tii to 4 we	Aged birth to 4 weeks (≥ 35 weeks gestation): 4 mg/kg twice daily OR weight-band dosing				
	300 mg tablet	We	ight band (kg)	Oral syrup	(10 mg/mL)		
	10 mg/mL syrup			twice daily			
		2 -	< 3	1 mL			
		3 -	< 4	1.5 mL			
		4 -	< 5	2 mL			
		Aged ≥ 4 weeks (≥ 35 weeks gestation) and ≥ 4 kg:					
			dy weight (kg)	Twice-daily			
		4 -	< 9	12 mg/kg			
		9 -	< 30	9 mg/kg			
		<u>≥</u> 3	0	300 mg			
		(max	imum dose: 300 ı	mg twice daily)		
(RAL)	100 mg chewable tablet	Aged biltil to 1 we	Body We		Dose		
	10 mg/mL oral suspension		2 - < 3		4 mg (0.4 mL) once daily		
			3 - < 4		5 mg (0.5 mL) once daily		
			4 - < 5		7 mg (0.7 mL) once daily		
		Aged 1 to 4 weeks: Approximately 3 mg/kg/dose once daily					
			Body Weig				
			Body We	ight (kg)	Dose		
			2 - < 3	ight (kg)	Dose 8 mg (0.8 mL) twice daily		
				ight (kg)			
Raltegravir (Isentress®) (RAL)	400 mg tablet		Body We 2 - < 3 3 - < 4 4 - < 5	ight (kg) B mg/kg/dose	4 mg (0.4 mL) once daily 5 mg (0.5 mL) once daily 7 mg (0.7 mL) once daily		

			Body Weight (k	(g) Dose	
			3 - < 4	25 mg	(2.5 mL) twice daily
			4 - < 6	30 mg	(3 mL) twice daily
			6 - < 8	40 mg	(4 mL) twice daily
			8 - < 11	60 mg	(6 mL) twice daily
			11 – < 14	80 mg	(8 mL) twice daily
			14 - < 20	100 m	g (10 mL) twice daily
		Approximately 6 mg Body Weight (kg)			Number of chewable tablets
		11 - <14	75 mg twice d	-	3 x 25 mg twice daily
		14 - <20	100 mg twice	•	1 x 100 mg twice daily
		20 - <28	150 mg twice		1.5 x 100 mg twice daily
		28 - <40	200 mg twice		2 x 100 mg twice daily
		≥ 40	300 mg twice	-	3 x 100 mg twice daily
Tenofovir DF (Viread®)	150 mg tablet	*Note: Chewable tablets are NOT inter Aged > 2 to < 12: 8 mg/kg/dose once daily			ble with film-coated 400mg tablets
(TDF)	200 mg tablet 250 mg tablet 300 mg tablet		nting tablets – use ora	•	
	40 mg/g powder	Body we	eight (kg)	Oral powder ond	ce daily
		10 - <12	. 2	scoops (80 mg)	
		12 - <14	2.	5 scoops (100 m	ng)
		14 - <17	3	scoops (120 mg))
		17 - <19	3.	5 scoops (140 m	ng)
		19 - <22		scoops (160 mg)	
		22 - <24		5 scoops (180 m	
		24 - <27		scoops (200 mg)	
		27 - <29		5 scoops (220 m	
		29 - <32	6	6 scoops (240 mg)	

		3	32 - <34	6.5 scoops (260 mg)	
		34 - <35		7 scoops (280 mg)	
		≥ 35		7.5 scoops (300 mg)	
		≥ 17 kg – use	tablets		
			Body weight (kg)	Tablets once daily	
			17 - <22	150 mg	
			22 - <28	200 mg	
			28 - <35	250 mg	
			≥ 35	300 mg	
Emtricitabine/tenofovir DF (Truvada®) – FTC/TDF	FTC 100 mg/TDF 150 mg tablet FTC 133 mg/TDF 200 mg tablet FTC 167 mg/TDF 250 mg tablet	Aged ≥ 12 years and ≥ 35 kg – One tablet (FTC/TDF 200mg/300 mg) daily			
	FTC 200 mg/TDF 300 mg tablet				