ANZPID GUIDELINES FOR POST-EXPOSURE PROPHYLAXIS (PEP) FOR BLOOD BORNE VIRUSES IN CHILDREN

In all cases, contact Paediatric Infectious Diseases for advice on the need for PEP and to discuss follow-up.

Please affix patient label here

Print form, circle exposure and drug choice and include in medical record.

1. Has there been significant exposure to recommend PEP for HIV?

Risk of HIV transmission = exposure risk x source risk

Exposure			Source	
		HIV-	High risk*	Low risk*
	Source	infected	MSM	Heterosexual
	risk		MSM-IVDU	IVDU
	R		HPC	Non-HPC
Exposure risk	Transmission	1	1/10	1/100
in children א	لا risk			
Receptive intercourse (anal/vaginal)	1/100	1/100	1/1000	1/10,000
Use of shared needle	1/100	1/100	1/1000	1/10,000
Insertive intercourse (anal/vaginal)	1/1000	1/1000	1/10,000	1/100,000
Oral sex - non intact mucosa	1/1000	1/1000	1/10,000	1/100,000
Oral sex - intact mucosa/other mucosal	Very low risk	Very low risk	Very low risk	Very low risk
Community acquired needlestick	Never documented	Very low risk	Very low risk	Very low risk

*If HIV status unknown, assess high risk or low risk; sexual exposure risk is higher in children than adults due to increased risk of mucosal trauma, vaginal wall thinness and cervical ectopy

MSM = men who have sex with men (HIV prevalence in Australia 5-15%)

HPC = source from high prevalence country (sub-Saharan Africa: HIV prevalence in Australia 7%)

IVDU = intravenous drug use (HIV prevalence in Australia 1-17% - MSM-IVDU upper end of range)

PEP is recommended (3 drugs) when:

Risk of transmission > 1/10,000 Risk of transmission = 1/10,000. Recommend discuss with ID and give PEP if uncertain

PEP is not recommended when:

Risk of transmission is < 1/10,000

2. Recommended management following exposure to blood borne viruses

a) Investigations (with forensic management as necessary) as per potential exposure:

Test	Baseline*	6 wks	3 mths
HIV antibody	\checkmark	\checkmark	\checkmark
Hepatitis B anti-HB surface Ab, anti-HB core Ab, HB surface Ag	\checkmark		\checkmark
Hepatitis C antibody	\checkmark		\checkmark
STI investigations (eg urine PCR for chlamydia and gonorrhoea)	\checkmark		

b) Consider PEP (next page). *Baseline bloods should *also* be collected from source if known. If source is HIV positive, request HIV viral load and resistance testing.

c) If anti-HBsAb level not protective (< 10 IU/L), administer hepatitis B vaccine 0.5 ml within 7 days (+/- HBV immunoglobulin (<30 kg 100 IU, >30 kg 400 IU) within 72 hours)

d) If male-female sexual exposure consider emergency contraception within 72 hours.

3. PEP medications

PEP (antiretroviral medication) should be started as early as possible after exposure, but has been shown to be effective **up to 72 hours** following exposure. Duration of PEP is **28 days**. Seek advice regarding drug interactions if on other medications.

A. Choice of PEP for weight under 35 k	g
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<3 years

Preferred option: Zidovudine + Lamivudine + Kaletra

≥3 years

Preferred option: Zidovudine + Lamivudine + Raltegravir (if chewable tablets available) Secondary option: Zidovudine + Lamivudine + Kaletra

B. Doses of drugs for weight under 35kg						
Medication	Formulary	Dose				
Zidovudine (AZT)	Liquid: 10 mg/ml	4-<9 kg: 12 mg/kg BD				
	Capsule: 100 mg or 250 mg	9-<30 kg: 9 mg/kg BD				
		≥30 kg: 300 mg BD (max)				
Lamivudine (3TC)	Liquid: 10 mg/ml	4 mg/kg BD				
	Tablet: 100 mg or 150 mg	14-<20 kg: 75 mg BD				
	For 20-25kg can use 75mg AM 150mg PM	20-<25 kg: 100 mg BD				
	if only have 150 mg tablets	≥25 kg: 150 mg BD (max)				
Kaletra [®] (LPV+RTV)	Liquid: Lopinivir 80 mg/ml +	<15 kg: 12 mg/kg BD				
Co-formulated	Ritonavir 20 mg/ml Dose based on LPV	15-40 kg: 10 mg/kg BD				
	Tablet: Paediatric Lopinavir 100 mg +	Using <u>100/25mg</u> tablets				
	Ritonavir 25 mg	15-<25 kg: TWO tablets BD				
	Note tablet strength	25-<35 kg: THREE tablets BD				
		≥35 kg: FOUR tablets BD				
Raltegravir (RLT)	CHEWABLE tablets: 25 mg or 100 mg	11-<14 kg: 75 mg BD				
	These tablets are NOT bioequivalent to the	14-<20 kg: 100 mg BD				
	400mg Raltegravir tablet	20-<28 kg: 150 mg BD				
		28-<40 kg: 200 mg BD				
		≥40 kg: 300 mg BD				
Tablet: 400 mg		If >25 kg and can swallow				
	Ŭ	tablets: 400 mg tablet BD				
A. Choice of PEP for weight 35 kg or more						
Preferred option: Truv	vada + Raltegravir					
Secondary options: 1) Combivir + Raltegravir: 2) Combivir + Kaletra (or local PEP provision)						
B. Doses of drugs for	or weight 35 kg or more					
Medication	Formulary	Dose				
Truvada [®] (TDF+FTC)	Tablet: Tenofovir disoproxil fumarate 300 mg	ONE tab once daily				
Co-formulated	+ Emtricitabine 200 mg	Not in renal impairment				
Raltegravir (RLT)	Tablet: 400 mg	ONE tab BD				
Combivir [®] (AZT+3TC)	Tablet: Zidovudine 300 mg +	ONE tab BD				
or generic equivalent	Lamivudine 150 mg					
Kaletra [®] (LPV+RTV)	Tablet: Adult Lopinavir 200 mg +	TWO tabs BD				
Co-formulated	Ritonavir 50 mg Note tablet strength					

4. How to access medications

Contact local hospital pharmacy including out of hours. We recommend having PEP available in pre-dispensed packs in Emergency drug cupboard for young people ≥35 kg.

5. Organising follow up

Arrange for appropriate follow-up within one week (ID/paediatrician/forensic service). If risk determined to be low and no PEP given, review can be at 6 weeks if family happy.