Nucleoside Reverse Transcriptase Inhibitors (NRTIs)	
	Abacavir (ZIAGEN®, ABC)
Dose	Neonatal/Infant:
	Not approved for infants < 3 months.
	Pediatric (23 months):
	• 8 mg/kg/dose (maximum 300 mg) po BID
	 If clinically stable with undetectable viral load and stable CD4 cell count for > 24 weeks (6 months), may consider once daily ABC as 16 mg/kg/day to maximum of 600 mg no once daily.
	Dosing regimen with scored tablets for pediatric patients weighing over 14 kg
	Weight-band BID dosing (FDA approved label revisions, Mar 2015):
	• 14 to < 20 kg: 150 mg po BID or 300 mg once daily
	 ≥ 20 to < 25 kg: 150 mg po QAM and 300mg po QPM or 450 mg po once daily
	 ≥ 25 kg: 300 mg po BID or 600 mg once daily
	<u>Adolescent (weight ≥ 25 kg)/Adult:</u>
	300 mg po BID or 600 mg once daily
How Supplied/	20 mg/mL banana-strawberry liquid (240 mL bottle). Store at room temperature.
Storage	• 300 mg tablet (Ziagen® Product Monograph, Canada) (300 mg scored tablet only available in the US)
	 <u>Combination tablet:</u> Tpizivip@ – 200 mg zidoviudino: 150 mg lamiviudino: 200 mg abaaavir.
	$= K_{\rm IVEXAR} = 600 \text{ mg abacavir: } 300 \text{ mg lamivudine, } 500 \text{ mg abacavir}$
	- TRIUMEQ® = 50 mg dolutegravir: 600 mg abacavir: 300 mg lamivudine
Food	May take with or without food.
Restrictions	
Comments	• Test patients for HLA-B*5701 allele before starting therapy to predict risk of hypersensitivity. If positive for HLA-B*5701, do
	not use abacavir.
	• Watch for hypersensitivity reaction (~ 5% incidence; usually within first 6 weeks): fever, rash, fatigue, n/v, diarrhea, abdominal
	pain and respiratory symptoms.
	 Do NOT rechaininge in suspect hypersensitivity. KIVEXA®: Film costed immediate release tablet may be split or crushed and added to a small amount of food or water.
	(European Medicines Agency, EPAR summary for the public, Ziagen updated 02-2015)
	 TRIZIVIR®: Film coated immediate release tablet however no studies regarding stability of split or crushed tablets
	 TRUMEOR: Film-coated non-scored and non-sustained released formulation. Although not studied solitting or crushing.
	tablets is not expected to affect the dissolution or absoprtion. Tablets may be crushed and added to a small amount of semi-
	solid food or liquid, and consumed immediately. (Data on File, ViiV Healthcare, Oct 2014)
	Didanosine (VIDEX®, VIDEX EC®, ddl)

Nucleoside Reverse Transcriptase Inhibitors (NRTIs)	
Dose	Neonatal/Infant (2 weeks to less than 3 months):
	 50 mg/m²/dose po BID is the preferred dose based on current pharmacokinetic knowledge¹
	<u>Infant (</u> ≥ <u>3 months to 8 months):</u>
	100 mg/m²/dose po BID
	Pediatric dose of oral solution (> 8 months):
	 120 mg/m²/dose po BID (range 90 – 150 mg/m²/dose po BID, maximum 200 mg BID)
	 In treatment-naïve patients aged 3-21 years, 240 mg/m² once daily (oral solution or capsules) has shown effective viral
	suppression
	Pediatric dose of Videx EC for ages 6 to 18 years and body weight ≥ 20 kg (2017 Pediatric DHHS guidelines):
	20 to < 25 kg: 200 mg po once daily
	25 to < 60 kg: 250 mg po once daily
	≥ 60 kg: 400 mg po once daily
	Adult/Adolescent:
	Oral solution:
	< 60 kg: 125 mg po BID (preferred) or 250 mg once daily
	≥ 60 kg: 200 mg po BID (preferred) or 400 mg once daily
	Videx EC:
	25 to < 60 kg: 250 mg once daily
	≥ 60 kg: 400 mg once daily
	Didanosine combined with tenofovir DF (2017 DHHS Pediatric Guidelines)
	< 60 kg: 200 mg once daily (limited data in adults)
	≥ 60 kg: 250 mg once daily
How Supplied/	• 4 g pediatric powder for oral solution (final concentration of 10 mg/mL). Refrigerate for up to 30 days (shake well before
Storage	using). Available through Special Access Program ² .
	 VIDEX EC delayed release capsules: 125 mg, 200 mg, 250 mg and 400 mg
Food	 Take on an empty stomach. Do not give with fruit juices or acidic drinks, feeds or milk. To improve adherence some
Restrictions	practitioners administer ddl without regard to timing of food.
Comments	4 g bottle (product monograph revised 8/2014):
	• Reconstitute with commercially available antacid that contains as active ingredients aluminum hydroxide (400 mg per 5 mL),
	magnesium nydroxide (400 mg per 5 mL), and simethicone (40 mg per 5 mL).
	• It above strength not available, reconstitute with similar antacid of ½ strength using these alternative instructions: Add 400
	mL or antacid in two, 200 mL portions, shaking the contents after each addition of 200 mL.
	• <u>INOTE:</u> I ne admixture may be dispensed in flint-glass or plastic bottles.
	• Didanosine oral solution contains antacids which may interfere with absorption of some medications if given at the same time.
	• Combination of stavudine and didanosine is not recommended (unless benefits outweigh the risks) due to increased risk of

Nucleoside Reverse Transcriptase Inhibitors (NRTIs)	
	serious toxicities.
	Combination of didanosine and tenofovir should be avoided due to drug interaction and increased risk of pancreatitis
	Emtricitabine (FTC, Emtriva®)
Dose	Neonate (0 to < 3 months):
	3 mg/kg/dose po once daily
	Pediatric (2.3 months to 17 years):
	• Char solution, 6 mg/kg/dose (maximum dose 240 mg) once daily • Capsules (children weighing > 33 kg); 200 mg once daily
	Adult/Adolescent (≥ 18 years):
	 Oral solution: 240 mg daily*
	Capsules: 200 mg daily
	*Higher maximum dosage with oral solution because 20% lower plasma exposure
How supplied/	Oral solution: 10 mg/mL (store at room temperature up to 25°C if used within 3 months, otherwise refrigerate for longer-term
Storage	storage) – Only available in US
	Capsules: 200 mg – Only available in US
	Combination Tablet
	TRUVADA® = 200 mg emtricitabine + 300 mg tenofovir DF
	ATRIPLA® = 200 mg emtricitabine + 300 mg tenofovir DF + 600 mg efavirenz
	COMPLERA® = 200 mg emtricitabine + 300 mg tenofovir DF + 25 mg rilpivirine
	ODEFSEY®= 200 mg emtricitabine + 25 mg tenofovir AF + 25 mg rilpivirine
	STRIBILD®= 200 mg emtricitabine + 300 mg tenofovir DF +150 mg elvitegravir + 150 mg cobicistat
	GENVOYARE 200 mg emilicitabine + 10 mg ienolovir AF + 150 mg eivilegravir + 150 mg cobicisial DESCOVVR – 200 mg emilicitabine + 10 mg ienolovir AF or 200 mg emilicitabine + 25 mg ienolovir AF
Food	May be taken with or without food.
restrictions	
Comments	200 mg capsules may be opened and mixed with water
	 Screen patients for HBV prior to starting emtricitabine
	• TRUVADA®: May split tablets. May crush and stir into water, grape juice or orange juice. The stability of the mixture is
	unknown. (Email communication, Gilead, July 2012)
	• ATRIPLA®: Atripla FDC tablet crushed, dissolved in 5 mL of water and diluted to 20 mL with Ora-Sweet oral solution and used
	within 24 hours did not meet bioequivalence of Atripla® whole tablet however clinical implications unknown. The authors
	Stated that crushed Attiplate may be a viable option in certain patients and fisks vs. benefits should be carefully considered (King et al. IAIDS 2011: 56:e131-2). Although Truvada® tablets may be split, splitting Atripla® tablets has not been studied
	There are no studies evaluating the pharmacokinetics of a split tablet vs. a whole tablet. Efavirenz is not soluble in water
	(Email communication, Gilead, July 2012).
	COMPLERA®: Crushing Complete tablets into a liquid medium has not been studied and is not recommended. Rilpivirine is

Nucleoside Reverse Transcriptase Inhibitors (NRTIs)	
	practically insoluble in water over a wide pH range. (Email communication, Gilead, July 2012).
	 STRIBILD®: No data on crushing or splitting Stribild and is not recommended by manufacturer. Cobicistat is practically insoluble in water. (Email communication, Gilead, July 2012). Case report describing successful virological suppression with crushed Stribild in juice (Fulco et al. AJHP 2014; 71(10);784-6).
	 GENVOYA®: No data on crushing or splitting Genvoya and is not recommended by manufacturer. While emtricitabine and tenofovir are soluble in water, cobicistat and elvitegravir are practically insoluble in water. (Communication from Gilead Canada, March 2016).
	• ODEFSEY®: Crushing and splitting Odefsey tablets has not been studied and is not recommended. Rilpivirine is practically insoluble in water over a wide pH range. (Communication from Gilead, January 2017).
	 DESCOVY®: Crushing or splitting FTC/TAF tablets has not been studied and is not recommended. Emtricitabine is soluble in water. TAF is soluble in water; however, it has a bitter and burnt aromatic flavour (Communication from Gilead Canada, January 2017).
	Lamivudine (3TC®, EPIVIR®)
Dose	Neonate/Infant (age < 4 weeks):
	2 mg/kg/dose po BID
	<u>Pediatric (age ≥ 4 weeks):</u>
	• 4 mg/kg/dose po BID; maximum 150 mg po BID (give BID; avoid use of liquid formulation as once daily in this age category)*
	Pediatric dosing (patients weighing \geq 14 kg) for scored 150 mg tablet
	• 14 to < 20 kg: 75 mg po BID
	• 2 20 to < 25 kg: 75 mg po QAM, 150 mg po QHS
	• \geq 25 Kg. 150 Mg p0 DID Rediatric dosing (nations weighing > 1/ kg and >3 years of age) with scored 150 mg tablet for nations until clinically stable, with
	a stable CD4 count and undetectable viral load.
	• 14 to < 20 kg: 150 mg once daily
	• \geq 20 to < 25 kg: 225 mg once daily
	• ≥ 25 kg: 300 mg once daily
	Adult/Adolescent (age ≥ 16 years): (2017 DHHS Pediatric Guidelines)
	 Weight < 25 kg: 4 mg/kg/dose po BID (maximum 150 mg po BID)
	 ≥ 25 kg: 150 mg po BID or 300 mg po once daily
How Supplied/	 10 mg/mL strawberry-banana oral liquid (240 mL bottle). Store at room temperature.
Storage	• 3TC®: 150 mg (scored) and 300 mg tablets
	100 mg tablet (Heptovir®) but restricted access due to HBV indication
	Generic tablets: 100 mg, 150 mg, and 300 mg
	$\frac{\text{Combination tablets:}}{\text{COMBINIPR} = 300 \text{ mg zidovudino} + 150 \text{ mg lamivudino} (Conoria tablet may be calit)}$
	TRIZIVIR® = 300 mg zidovudine + 150 mg lamivudine + 300 mg abacavir

Nucleoside Reverse Transcriptase Inhibitors (NRTIs)	
	KIVEXA® = 600 mg abacavir + 300 mg lamivudine TRIUMEQ® = dolutegravir 50 mg; abacavir 600 mg; lamivudine 300 mg
Food Restrictions	Take with or without food.
Comments	 Lamivudine 150 mg scored tablet. Tablets may be split or crushed. Screen patients for HBV infection before administering 3TC. *Liquid formulation of lamivudine generally not recommended given as once daily in infants and young children due to potentially lower drug concentrations than BID (also not well-studied). Pharmacokinetic study in adults on co-administration of 3TC 300 mg and sorbitol solution (low (3.2 g), medium (10.2 g) and high (13.4 g) sorbitol doses) given with 240 mL water in the fasting state. A dose-dependent decrease in 3TC exposure was seen and is likely due to decreased absorption and bioavailability of 3TC (accelerated small intestinal transit time mediated by sorbitol). Higher doses of sorbitol resulted in lower 3TC concentrations (decreased AUC_{0-∞} by 14%, 32%, and 36%, respectively). Caution is warranted with chronic administration of 3TC solution and other liquid drugs containing sorbitol (e.g. abacavir, nevirapine, cotrimoxazole). (Adkison et al. CROI 2017, #428) In addition, in pediatric patients, ensure lamivudine dose is optimized based on weight. COMBIVIR®: Film-coated immediate release tablet however no studies, but likely acceptable to crush immediately before ingestion. May have a bitter aftertaste. Film coated immediate release tablet however no studies regarding stability of split or crushed tablets. crushing tablets is not expected to affect the dissolution or absoprtion. Tablets may be crushed and added to a small amount of semi-solid food or liquid, and consumed immediately. (Data on File, ViiV Healthcare, Oct 2014)

	Stavudine (ZERIT®, d4T)
Dose	Neonate/Infant (birth up to 13 days):
	0.5 mg/kg/dose po BID
	<u>Pediatric (≥14 days and weighing < 30 kg):</u>
	1 mg/kg/dose po BID
	<u>Adult/Adolescent (body weight ≥ 30 kg): (2017 DHHS Pediatric Guidelines)</u>
	• 30 mg po BID ¹
How Supplied/	• 1 mg/mL fruit flavored suspension (200 mL bottle). Available through Special Access program ² . Stable for 30 days in fridge.
Storage	Shake well.
	• 15, 20, 30, 40 mg capsules
Food	Take with or without food.
Restrictions	
Comments	 May open capsule and give in small portion of food or 5-10 mL cool tap water.
	 Should not be administered with zidovudine due to poor antiretroviral effect.
	Combination of stavudine and didanosine is not recommended (unless benefits outweigh the risks) due to increased risk of

	serious toxicities.
	 Dosage adjustment required for renal dysfunction based on CrCl
	Tenofovir alfenamide (TAF)
Dose	Neonate/Infant: (2016 DHHS Pediatric Guideline, Canada and US monographs)
	Not approved for use.
	Pediatric:
	Not recommended for use in children less than 12 years
	Adolescent (\geq 12 years and weight \geq 35 kg)/Adult:
	Genvoya® 1 tablet po once daily
	Odefsey® 1 tablet po once daily
	Descovy® 1 tablet po once daily
How Supplied/	TAF only available as fixed dose combination tablet
Storage	Combination tablets:
	ODEFSEY®= 200 mg emtricitabine + 25 mg tenofovir AF + 25 mg rilpivirine
	GENVOYA®= 200 mg emtricitabine + 10 mg tenofovir AF + 150 mg elvitegravir + 150 mg cobicistat
	DESCOVY®= 200 mg emtricitabine + 10 mg tenofovir AF <u>OR</u> 200 mg emtricitabine + 25 mg tenofovir AF
Food	Take Genvoya with food and Odefsey with a meal.
Restrictions	May take Descovy with or without food.
Comments	• TAF not recommended for use with CrCl < 30 mL/min.
	• IAF 25 mg dose is recommended as the standard dose when not given with a pharmacokinetic booster (ritonavir or
	cobicistat). TAF 10 mg dose is recommended with pharmacokinetic boosters such as ritonavir or cobicistat (Canadian
	Descovy monograph, April 2016).
	 TAF is soluble in water; however, it has a bitter and burnt aromatic flavour (Communication from Gilead Canada, January 2017).
	Screen patients for HBV infection before use of TAF.
	ODEFSEY® must be given with at least a 500 calorie meal (2017 DHHS Pediatric guidelines). (Note: Odefsey® Canadian
	product monograph recommends to take with a meal; calories not specified).
	• GENVOYA®: No data on crushing or splitting Genvoya and is not recommended by manufacturer. While emtricitabine and
	tenofovir are soluble in water, cobicistat and elvitegravir are practically insoluble in water. (Communication from Gilead
	Canada, March 2016).
	ODEFSEY®: Crushing and splitting Odefsey tablets has not been studied and is not recommended. Rilpivirine is practically
	insoluble in water over a wide pH range. (Communication from Gilead, January 2017).
	DESCOVY®: Crushing or splitting FTC/TAF tablets has not been studied and is not recommended. Emtricitabine is soluble in
	water. TAF is soluble in water; however, it has a bitter and burnt aromatic flavour (Communication from Gilead Canada,
	January 2017).
	Tenofovir disoproxil fumarate (VIREAD®, TDF)
Dose	Neonate/Infant:
	Not approved for use.

	Pediatric (≥ 2 years to < 12 years):
	 Not approved for use in children less than 2 years.
	• Recommended oral dose is 8 mg/kg/dose (up to a maximum dose of 300 mg) once daily as powder or tablets (see Viread
	product monograph, US and 2017 DHHS Pediatric Guidelines ¹)
	Adolescent (≥ 12 years and weight ≥35 kg)/Adult:
	300 mg once daily
How Supplied/	300 mg tablet (150 mg, 200 mg, 250 mg and 300 mg tablet available in US)
Storage	Oral powder (40 mg per 1 g of powder)- available in the US only
	Combination tablets:
	TRUVADA® = 200 mg emtricitabine + 300 mg tenofovir DF
	ATRIPLA® = 200 mg emtricitabine + 300 mg tenofovir DF + 600 mg efavirenz
	COMPLERA® = 200 mg emtricitabine + 300 mg tenofovir DF + 25 mg rilpivirine
	STRIBILD®= 200 mg emtricitabine + 300 mg tenofovir DF +150 mg elvitegravir + 150 mg cobicistat
Food	Take with food if possible for increased absorption. May take without food.
Restrictions	
Comments	 Tenofovir DF: Dissolve crushed tablets in 100 mL of water, or grape juice and take immediately.
	 Unpalatable bitter taste. May split tablet and insert in empty gelatin capsule to mask bitter taste.
	 Decreases in Bone Mineral density (BMD) have been reported in both adult and pediatric studies.
	• Oral powder should be mixed in a container with 2 to 4 ounces (60 to 120 mL) of soft food not requiring chewing (e.g.,
	applesauce, baby food, yogurt). Administer immediately to avoid a bitter taste. Do not attempt to mix in a liquid as the powder
	may float on top even after stirring.
	Tenofovir may decrease atazanavir (ATV) plasma concentrations. In adults, a boosting dose of 100 mg ritonavir is
	recommended (ATV 300 mg/RTV 100 mg) if co-administered with tenofovir.
	• TRUVADA®: May split tablets. May crush and stir into water, grape juice or orange juice. The stability of the mixture is
	unknown. (Email communication, Gilead, July 2012)
	• ATRIPLA®: Atripla FDC tablet crushed, dissolved in 5 mL of water and diluted to 20 mL with Ora-Sweet oral solution and used
	within 24 hours did not meet bioequivalence of Atripla® whole tablet however clinical implications unknown. The authors
	stated that crushed Atripla® may be a viable option in certain patients and risks vs. benefits should be carefully considered
	(King et al. JAIDS 2011; 56:e131-2). Although Truvada® tablets may be split, splitting Atripla® tablets has not been studied.
	There are no studies evaluating the pharmacokinetics of a split tablet vs. a whole tablet. Efavirenz is not soluble in water.
	(Email communication, Gilead, July 2012).
	COMPLERA®: Crushing Complete tablets into a liquid medium has not been studied and is not recommended. Rilpivirine is
	practically insoluble in water over a wide pH range. (Email communication, Gilead, July 2012).
	• STRIBILD®: No data on crushing or splitting Stribild and is not recommended by manufacturer. Cobicistat is practically
	insoluble in water. (Email communication, Gilead, July 2012). Case report describing successful virological suppression with
	crushed Stribild in juice (Fulco et al. AJHP 2014; 71(10);784-6).
	Zidovudine (RETROVIR®, AZT, ZDV)
Dose	Neonate/infant (< 6 weeks of age) dose for prevention of transmission or treatment:
	For prevention of transmission, start ZDV immediately (preferably within 2 to 6 hours but no longer than 6 - 12 hours after

	birth) and administer for 6 weeks. ³
	Less than 30 weeks gestation:
	 PO: 2 mg/kg/dose po q12h for 4 weeks, then increase to 3 mg/kg/dose q12h for last 2 weeks
	 IV: 1.5 mg/kg/dose IV q12h for 4 weeks, then increase to 2.3 mg/kg/dose q12h for last 2 weeks
	 ≥ 30 to < 35 weeks gestation:
	 PO: 2 mg/kg/dose po q12h for 2 weeks, then increase to 3 mg/kg/dose q12h for last 4 weeks
	 IV: 1.5 mg/kg/dose q12h for 2 weeks, then increase to 2.3 mg/kg/dose q12h for last 4 weeks
	 ≥ 35 weeks gestation:
	 PO: 4 mg/kg/dose po q12h for 4-6 weeks
	 IV: 3 mg/kg/dose IV q12h
	Infant/child dose (age \geq 35 weeks post-conception and at least 4 weeks post-delivery):
	PO: 240 mg/m²/dose po q12h <u>or:</u>
	MG/KG DOSING:
	-4 to < 9 kg: 12 mg/kg/dose po BID
	– 9 to < 30 kg: 9 mg/kg/dose po BID
	$- \geq 30 \text{ kg}: 300 \text{ mg po BID}$
	Adul/Adolescent (18 years of older):
How Supplied/	 10 mg/ml_strawberry syrup (240 ml_bottle). Store at room temperature.
Storage	 100 mg capsules
•	• 200 mg/20 mL vial (intravenous)
	Combination tablets:
	COMBIVIR® = 300 mg zidovudine + 150 mg lamivudine
	I RIZIVIR® = 300 mg zidovudine + 150 mg lamivudine + 300 mg abacavir
Food	Take with or without food.
Restrictions	
Comments	Should not be administered with d4T due to poor antiretroviral effect.
	 May open capsule and give in small portion of food or 5 – 10 mL cool tap water. OOMDIV (DO) Files as stadio and state as tablet because a stadio a but like because table to small be form
	COMBIVIR®: Film-coated immediate release tablet nowever no studies, but likely acceptable to crush immediately before indestion. May have a bitter aftertaste.
	 TRIZIVIR®: Film coated immediate release tablet however no studies regarding stability of split or crushed tablets

Non-Nucleoside Reverse Transcriptase Inhibitors (NNRTIs)	
Efavirenz (Sustiva®, EFV)	
Dose	Neonate/Infant:
	Not approved for use.
	Dosing for Children 3 months to < 3 years based on CYP 2B6 Genotype (CYP 2B6 516 G/G or G/T and CYP 2B6 516 T/T)
	currently being investigated.
	Pediatric (3 months to < 3 years and weight ≥ 3.5 kg) without regard to CYP 2B6 Genotype:
	Generally not recommended to use. FDA approved dosing in this age group as follows:
	3.5 to < 5 kg: 100 mg daily
	5 to < 7.5 kg: 150 mg daily
	7.5 to < 15 kg: 200 mg dally
	15 to < 20 kg. 250 mg dally Pediatric (>3 years and weight > 10 kg):
	• Give once daily (no)
	$10 \text{ to } < 15 \text{ kg}^2$ 200 mg
	15 to < 20 kg: 250 mg
	20 to < 25 kg: 300 mg
	25 to < 32.5 kg: 350 mg
	32.5 to < 40 kg: 400 mg
	≥ 40 kg: 600 mg
	• Pediatric patients with virologic rebound or lack of response may require higher doses (367 mg/m ² /dose to maximum of 600
	mg po once daily)
	<u>Adult/Adolescent (weight ≥ 40 kg):</u>
	600 mg po once daily
How Supplied/	• 50, 200 mg capsules
Storage	600 mg tablet; Note: efavirenz 30 mg/L oral solution is no longer available internationally
	Combination tablet:
F eed	ATRIPLA® = 300 mg tenotovir + 200 mg emtricitabine + 600 mg etavirenz
Food	May take with or without food but do not take with high fat meal (significantly increases AUC and side effects).
Commonts	 Dass at hadtime recommanded first 2.4 weaks to decrease CNS side affects
Comments	 Dose at bedtime recommended first 2-4 weeks to decrease CNS side effects. Cansulas: may be encoded and added to 1.2 ten of liquide or foods (or a conclusion, grape jolly, yequit, reconstituted infant.
	• Capsules. Thay be opened and added to 1-2 isploi inquids of foods (e.g. applesauce, grape jelly, yoguri, reconstituted infant formula at room temperature) but may result in pennery taste. Grape jelly may mask taste. Specific instructions (Kaul et al
	A.IHP 2010:67(3):217-22. DHHS 2017)
	1. Hold the capsule horizontally over a small container and twist open to avoid spillage.
	2. Pull the cap away from the body of the capsule carefully, sprinkle and mix the contents with 1-2 tsp of food or formula.
	3. Administer the mixture with a spoon as soon as possible but no more than 30 minutes after mixing.
	4. After administration of the efavirenz-food mixture, an additional 2 tsp of food or infant formula must be added to the
	container, stirred, and given to the patient.

	 Tablets: A pediatric pharmacokinetic intensive study that utilized weight band dosing and a combination of capsules or half of a 600 mg tablet reported low overall plasma efavirenz concentrations in both groups (higher doses need to be investigated). They found no significant differences across weight bands, suggesting no discernible effect of using half tablets. (Fillekes et al. JAIDS 2011;58(4):392-298). Since data is limited on splitting tablets, the use of the capsule formulation is preferred when possible. ATRIPLA®: Atripla FDC tablet crushed, dissolved in 5 mL of water and diluted to 20 mL with Ora-Sweet oral solution and used within 24 hours did not meet bioequivalence of Atripla® whole tablet however clinical implications unknown. The authors state that crushed Atripla® may be a viable option in certain patients and risks vs. benefits should be carefully considered (King et al. JAIDS 2011; 56:e131-2). Although Truvada® tablets may be split, splitting Atripla® tablets has not been studied. There are no studies evaluating the pharmacokinetics of a split tablet vs. a whole tablet. Efavirenz is not soluble in water. (Email communication, Gilead, July 2012). Mixed inducer/inhibitor of CYP450 3A4. CHECK FOR DRUG INTERACTIONS. Use with caution in adolescent women of childbearing potential because of the risk of teratogenicity.
	Etravirine (Intelence® ETR)
Dose	Neonate/ Infant:
	Not approved for use.
	Pediatric (antiretroviral-experienced children 6 to <18 years of age and weighing at least 16 kg):
	Not approved for use in children < 6 years. Studies in infants and children aged 2 months to 6 years are currently underway
	$\frac{(NC101504841)}{100}$
	• $10 \text{ to } < 20 \text{ kg}$: 100 mg po BiD
	• $20 \text{ to } < 25 \text{ kg}$. 125 IIIg po BID • $25 \text{ to } < 20 \text{ kg}$: 150 mg po BID
	• $25 \text{ to } < 50 \text{ kg}$. 150 mg po BID • $> 30 \text{ kg}$: 200 mg po BID
	Adult (antiretroviral experienced):
	• 200 mg po BID
How Supplied/	25 mg tablets
Storage	• 100 mg tablets
	200 mg tablets
	Tablets sensitive to moisture. Store in original container with desiccant at room temperature.
Food	Take with food.
Restrictions	
Comments	Inducer of CYP3A4; Inhibitor of CYP2C9/2C19. CHECK FOR DRUG INTERACTIONS.
	Place the tablet in 5 mL of cold water or at least enough liquid to cover the medication. Stir until a homogenous, white,
	cioudy, suspension is obtained. If desired, add more water or alternatively orange juice or milk. Once dispersed, patients
	times and each rinse completely swallowed to ensure the entire dose is consumed. Avoid the use of grapofruit juice, warm
	liquids (> 40°C) or carbonated beverages. (Intelence® Product Monograph, 2014)
	Nevirapine (VIRAMUNE® NVP)

Dose	Newborn Perinatal Prophylaxis (see Perinatal guidelines for more information on use of NVP for prophylaxis of mother to child
	transmission of HIV):
	Weight-Band Prophylaxis Dosing (NICHD-HPTN 040/PACTG 1043 Study):
	3 doses in first week of life (1 st dose within 48 hours of birth; 2 nd dose 48 hours after 1 st dose; 3 rd dose 96 hours after 2 nd dose):
	 Birth weight < 1.5 kg: 2 mg/kg per dose po (note: dose per kg for this weight only) X 1
	 Birth weight 1.5 – 2 kg: 8 mg per dose po X 1
	 Birth weight > 2 kg: 12 mg per dose po X 1
	Part of 3-Drug Combination ARV Prophylaxis Regimen (Investigational- IMPAACT P1115) (2017 DHHS Perinatal Guidelines):
	No lead-in dosing recommended
	 ≥ 37 weeks gestational age: 6 mg/kg/dose po BID from birth through to 2-6 weeks
	 34 to < 37 weeks gestational age: 4 mg/kg/dose po BID for the first week, then 6 mg/kg/dose po BID (no lead-in) through 2-6 weeks
	 The optimal duration of nevirapine is unknown; many experts recommend continuation of nevirapine x 6 weeks and others recommend 2 weeks if the HIV amplification test NAAT is negative at birth.
	 In children < 2 years old some experts initiate nevirapine without 2-week lead-in (rash not as prevalent as with older children).
	Alternate prophylaxis dosing strategy (Sick Kids in Toronto: Lau et al. JAIDS, 2017).
	Lead-in dosing used
	 ≥ 32 weeks gestational age: 150 mg/m²/dose po once daily x 2 weeks (lead-in), then 150 mg/m²/dose po BID x 2 weeks (total 4 weeks)
	*** TDM is essential in this strategy due to large inter/intra patient variability
	*** Patients with a lower birth weight required a lower NVP dose to achieve target trough levels (3-8 mg/L)
	Premature infant < 34 weeks gestation prophylaxis dosing (Investigational):
	Various dosing strategies under study
	• 2 mg/kg/dose po once daily x 2 weeks, then 4 mg/kg/dose po once daily (IMPAACT P1106- Bekker, CROI 2016, #758)
	Treatment of HIV Infection:
	Investigational dose age < 1 month ¹ : (2017 DHHS Pediatric Guidelines)
	• 34-37 weeks gestational age: 4 mg/kg/dose po BID for the first week, then 6 mg/kg/dose BID (no lead in)
	• \geq 37 weeks gestational age: 6 mg/kg/dose po BID (no lead in)
	Pediatric (immediate release tablet):
	\geq 1 month to < 8 years:
	• 200 mg/m ² /dose po once daily x 14 days, then 200 mg/m ² /dose po BID (if no rash or ADRs: maximum 200 mg per dose BID)
	\geq 8 years:
	• 120 - 150 mg/m ² /dose po once daily X 14 days, then 120 - 150 mg/m ² /dose po BID (if no rash or ADRs; maximum 200 mg

	per dose BID or extended release 400 mg po once daily)
	Pediatric (extended release tablet):
	• ≥ 6 years who are already taking immediate release nevirapine BID can be switched to extended release without lead in
	dosing
	Adult/Adolescent:
	• 200 mg po BID (Note: Initiate dose at 200 mg po once daily x 14 days then increase dose to 200 mg po BID)
	• 400 mg extended release po once daily (Note: initiate therapy with 200 mg immediate release tablet po once daily for the
	first 14 days, then increase to 400 mg po once daily if no rash)
	• Nevirapine is not approved for children less than 15 years of age in Canada; however, dosing recommendations are well-
	established for immediate release tablets and suspension)
How Supplied/	• 10 mg/mL sweet flavoured syrup (240 mL bottle). Available through Special Access program ² . Store at room temperature.
Storage	200 mg tablet; 400 mg extended release tablet
Food	May take with or without food.
Restrictions	
Comments	Do not increase dose if rash occurs within first 14 days.
	• May crush immediate release (IR) tablets, mix in water and give orally or by G-tube; liquid formulation available via SAP.
	• Do not crush, chew or divide extended release (ER) tablet (400 mg XR); they may be swallowed whole.
	Shake suspension well before administering.
	• If nevirapine dosing is interrupted for > 14 days, should be restarted with once daily dosing with immediate release tablets or
	suspension for 14 days followed by dose escalation.
	 Patients ≥ 6 years taking IR tablet BID may be switched to ER tablet without lead-in dosing
	• When switching from efavirenz to nevirapine, the 14-day escalation of nevirapine is not required. Full doses of nevirapine
	can be used as of the first day.
	Remnants of extended release polymer matrix may be found in feces but may only contain part of original nevirapine content
	Induces CYP450 3A4 – may need to increase dose of other drugs metabolized by P450 enzymes in the liver. CHECK FOR
	DRUG INTERACTIONS.
	Rilpivirine (EDURANT®, RPV)
Dose	Neonate/infant:
	Rilpirivine is not approved for use in neonates/infants
	Pediatric
	Rilpivirine is not approved in Canada for use in children less than 12 years of age.
	Antiretroviral-naïve children 12 to <18 years of age weighing at least 35 kg: (2017 DHHS Pediatric Guidelines)
	25 mg po once daily
	COMPLERA® 1 tablet po once daily (with a 400 calorie meal)
	ODEFSEY® 1 tablet po once daily (with a meal)
	 Trial underway investigating use in pediatric patients ≥ 6 to 18 years (NCT00799864)

	Adult >18 years (avoid in antiretroviral-naïve patients with viral load ≥100,000 copies/mL):
	25 mg po once daily
How Supplied/	25 mg tablet
Storage	 Dispersible tablet (2.5 mg) and granule (2.5 mg/g) formulations are under investigation
	(https://clinicaltrials.gov/ct2/show/NCT02561936)
	Combination tablet:
	COMPLERA® = 300 mg tenofovir DF + 200 mg emtricitabine + 25 mg rilpivirine
	ODEFSEY®= 200 mg emtricitabine + 25 mg tenofovir AF + 25 mg rilpivirine
Food	Must take with food (at least ~400 kcal recommended).
Restrictions	
Comments	• Film coated tablet. No data available on stability of splitting or crushing rilpivirine tablets. Rilpivirine is insoluble in water over wide pH range. (Email communication, Janssen, July 2012).
	• COMPLERA®: Crushing Complera tablets into a liquid medium has not been studied and is not recommended. Rilpivirine is practically insoluble in water over a wide pH range. (Email communication, Gilead, July 2012).
	 ODEFSEY®: Crushing and splitting Odefsey tablets has not been studied and is not recommended. Rilpivirine is practically insoluble in water over a wide pH range. (Communication from Gilead, January 2017).
	 Use RPV with caution in patients with baseline VL > 100,000 copies/mL.
	 RPV is metabolized by CYP4503A4. CHECK FOR DRUG INTERACTIONS.
	 Caution when administered with a drug with a known risk of Torsades de Pointes (QT prolongation)
	 Do not use with proton pump inhibitors and caution with H2 receptor antagonists. Antacids should only be taken at least 2 hours before or 4 hours after rilpivirine.

Protease Inhibitors (PIs)		
	Atazanavir (Revataz®, ATV)	
Dose	Neonate/infant:	
	 Not approved for use. Should not be administered to neonates and infants < 3 months due to risk associated with 	
	hyperbilirubinemia and kernicterus.	
	Pediatric (≥ 3 months to <18 years and weight ≥ 5 kg : (2017 DHHS Pediatric Guidelines)	
	 Boosted atazanavir USA FDA approved for ARV-haive infants at least 3 months of age. In Canada, dosing guidelines approved for use in children > 6 years 	
	ATV powder:	
	 5 to < 15 kg: ATV 200 mg/rtv 80 mg po once daily 	
	 15 to < 25 kg: ATV 250 mg/ rtv 80 mg po once daily 	
	ATV capsules (capsule not approved for use < 6 years or < 15 kg)	
	 15 to < 20 kg: ATV150 mg/rtv 100 mg po once daily 	
	 20 to < 40 kg: ATV 200 mg/rtv 100 mg po once daily (note: some experts would increase atazanavir to 300 mg at > 35 kg 	
	to avoid under-dosing, especially when administered with TDF)	
	$- \ge 40 \text{ kg: ATV } 300 \text{ mg/rtv } 100 \text{ mg po once daily}$	
	Adult/Adolescent (218 years) and Weighing at least 40 Kg:	
	adolescents, higher doses than those used in adults may be required to achieve target drug levels)	
	 Antiretroviral experienced: 300 mg ATV/rtv 100 mg po once daily 	
	• Atazanavir in combination with efavirenz: 400 mg ATV/rtv 100 mg both po once daily but at separate times (naïve only)	
	Atazanavir in combination with tenofovir: 300 mg ATV/rtv 100 mg both po once daily.	
	Atazanavir in combination with H2 receptor antagonist: 400 mg ATV/rtv 100 mg po once daily.	
How Supplied/	• 150, 200, and 300 mg capsules	
Storage	• 50 mg in 1.5 g of powder packet (contains aspartame, sucrose, and orange-vanilla flavour)- for > 3 months and between 10	
	to < 25 kg – available in US of via Special Access Program Combination tablet:	
	• Evotaz $\mathbb{R} = 300 \text{ mg}$ atazanavir + 150 mg cobicistat – available in the US only (approved in Canada but not vet marketed)	
Food	Take with food.	
Restrictions		
Comments	Capsules and powder packets are not interchangeable.	
	Capsules: may be opened and mixed with applesauce for immediate ingestion with food.	
	• Oral powder: mix with food such as applesauce or yogurt (1 TBSP minimum). Mixing with a beverage (milk, formula, water-	
	30 mL + additional 15 mL after to consume residual drug) can be used it infant is able to drink from a cup. For younger	
	administer via oral svringe. If > 1 packet per dose, repeat these steps for each packet. Stable for 1 hour at room	

	 temperature once mixed in food or beverage. Refer to Reyataz® US Product Monograph for additional information on mixing/administration. Antacids and buffered medications (including didanosine buffered tablets) decrease ATV concentrations if taken at the same time –Administer ATV 2 hours before these medications. H₂ receptor antagonists decrease ATV levels. Check drug interaction resource for recommendations on dosing ATV when co-administered with H2 receptor antagonists. Proton pump inhibitors decrease ATV levels. Omeprazole (≤ 20 mg) may be used in treatment I patients taking boosted ATV- take 12 hours before ATV. Otherwise coadministration of atazanavir and proton pump inhibitors is NOT recommended. ATV inhibits UGT1A1 and may increase levels of raltegravir. Protease inhibitors are extensively metabolized by as well as inhibit CYP450 3A4. CHECK FOR DRUG INTERACTIONS. Atazanavir in combination with cobicistat (Evotaz®) in children and adolescents aged 3 months to 18 years is currently under investigation. Cobicistat use is currently not recommended for use in children and adolescents less than 18 years. Some experts consider that cobicistat boosted regimens may be appropriate in certain children aged < 18 years and weighing ≥ 35 kg² consultation with an HU pediatric expert is advised (2017 DHHS Pediatric Guidelines)
	Darunavir (Prezista®, DRV)
Dose	Neonate/ Infant: • Not approved for use. • DRV is not recommended in pediatric patients < 3 years or ≤ 10 kg
	Adult/Adolescent (≥ 12 years): • Take with food. • Treatment naïve or experienced; no DRV resistance-associated mutations: • ≥ 30 to < 40 kg: 675 mg DRV/rtv 100 mg po once daily • ≥ 40 kg: 800 mg DRV/rtv 100 mg po once daily • Treatment experienced; at least one DRV associated-resistance mutation: • ≥ 30 to < 40 kg: 400 mg DRV/rtv100 mg po both BID • ≥ 40 kg: 600 mg DRV/rtv 100 mg po both BID

	Adult (> 18 years):
	 At least one DRV resistance associated mutation: 600 mg darunavir/rtv 100 mg po BID with food
	Treatment naïve or treatment-experienced with no DRV resistance associated mutations: 800 mg darunavir/150 mg
	cobicistat (Prezcobix ®) po once daily
How Supplied/	 75 mg, 150 mg, 600 mg, 800 mg tablets
Storage	100 mg/mL Oral suspension- available in Canada via compassionate access through Janssen (email communication,
	Janssen, February 2017). Store oral suspension at room temperature. Shake well before use.
Food	PREZCOBIX®: 800 mg darunavir; 150 mg cobicistat co-formulated tablet
Restrictions	Must be taken with food.
Comments	• Darunavir specific mutations: V11I, V32I, L33F, I47V, I50V, I54L, I54M, T74P, L76V, I84V and L89V
	In patients with one or more darunavir resistance-associated mutations, darunavir should only be given twice daily
	Darunavir contains a sulfonamide moiety. The potential cross-sensitivity with other drugs in the sulfonamide class is
	unknown – caution in patients with sulfonamide allergy.
	 Limited data available on chewing or crushing. No problems anticipated if tablets chewed or crushed for administration through a passagestric (NG) tube (Data on file. Tibetee, May 2008). A case report describes an intubated 44 year old man on
	tenofovir/emtricitabine darunavir and ritonavir in ICU who was given darunavir tablets via orogastric tube crushed and
	dissolved in 15-20 mL of water. Viral load did not change significantly and adequate darunavir trough levels were achieved.
	(Kim et al. CJHP 2014;67(1):39-42). Protease inhibitors are extensively metabolized by as well as inhibit CYP450 3A4.
	CHECK FOR DRUG INTERACTIONS.
	PREZCOBIX®: Splitting film-coated tablets has not been studied. Tablets should be swallowed whole without breaking or
	crushing to ensure administration of the entire dose.
	• PREZCOBIX® safety and efficacy has not been established in pediatric patients, thus use is not recommended. (Prezcobix Product Monograph, 2015). Deermoockingting, officeacy and actety of derupsyir/aphigistatic surrently under study in children
	ared 12 to 18 years. Some experts consider that cohicistat boosted regimens may be appropriate in certain children ared <
	18 years and weighing \geq 35 kg; consultation with an HIV pediatric expert is advised (2017 DHHS Pediatric Guidelines).
	Fosamprenavir (TELZIR®, f-APV)
Dose	Neonate:
	Not approved for use.
	<u>Pediatric (≥ 6 months to 18 years):</u>
	• Boosted fosamprenavir USA FDA approved for ARV-naïve infants at least 4 weeks of age and treatment experienced infants
	at least 6 months of age. Pediatric guidelines do not recommend using in infants < 6 months. In Canada, dosing guidelines
	approved for use in children \geq 6 years.
	 Oral suspension 14 km f ADV 45 mm/km/deep plug the 7 mm/km/deep both the PID
	$- < 11 \text{ kg} \cdot 1-\text{AFV} 45 \text{ mg/kg/dose plus ftv / mg/kg/dose both po BID44 to (45 \text{ km/f} \text{ AD})/30 \text{ mm/km/dose mkm/mtv } 2 \text{ mm/km/dose hoth no DID}$
	- 11 to < 15 kg: T-APV 30 mg/kg/dose plus rtv 3 mg/kg/dose both po BID
	— 15 to < 20 kg: f-APV 23 mg/kg/dose plus itv 3 mg/kg/dose both po BID

	— ≥ 20 kg f-APV 18 mg/kg/dose plus rtv 3 mg/kg/dose both po BID
	 Do not exceed recommended adult dose: f-APV 700 mg plus rtv 100 mg po BID
	Adult/Adolescent (> 18 years):
	Antiretroviral naïve:
	 1400 mg f-APV BID without ritonavir (unboosted regimen not recommended due to inferior potency)
	 1400 mg f-APV/rtv 100-200 mg, both once daily
	 700 mg f-APV/rtv 100 mg, both BID
	Protease-inhibitor experienced:
	 700 mg f-APV/rtv 100 mg, both BID
How Supplied/	700 mg tablet (prodrug, equivalent to 600 mg amprenavir)
Storage	• 50 mg/mL oral suspension (225 mL bottle) [calcium prodrug, equivalent to 43 mg/mL amprenavir]. Contains 1% w/w
	propylene glycol. Verbal communication ViiV May 2017. Store suspension between 2 – 30°C. Discard 28 days after
Food	opening. Shake well.
Pool	• F-APV tablets without rtv may be taken with or without food. F-APV with rtv should be taken with food.
Restrictions	• In adults, oral suspension should be laken on an empty stomach (1 hr before of 2 hours after rood). In pediatric patients, oral suspension should be given with food
Comments	 Fosamprenavir calcium tablets and suspension are equivalent on a mg per mg basis.
	 No data available regarding stability of crushed or dissolved tablet.
	• APV is a sulfonamide. In pivotal studies there was no evidence of increased rash in patients with a history of sulfonamide
	allergy. Caution in patients with sulfonamide allergy.
	• The suspension contains propyl and methyl parahydroxybenzoate which may cause allergic reactions (delayed in some
	cases).
	• Protease inhibitors are extensively metabolized by as well as inhibit CYP450 3A4. CHECK FOR DRUG INTERACTIONS.
_	Lopinavir/ Ritonavir (KALETRA®, LPV/rtv)
Dose	Neonate (age < 14 days):
	Do not administer to neonates before a postmenstrual age of 42 weeks and a post-natal age of at least 14 days because of potential toxicities
	Infant dose (age 14 days to 12 months – US FDA Approved):
	Without nevirapine or efavirenz:
	 300 mg/m² LPV/ 75 mg rtv/m²/dose po BID (~16 mg/kg/dose LPV/ 4 mg/kg/dose rtv po BID)
	 Plasma levels among patients < 12 months were lower than those observed in adults or older children. LPV dosing
	should be adjusted for growth at frequent intervals.
	 LPV/rtv is not recommended in combination with nevirapine, eravirenz, tosamprenavir, or nelfinavir in patients < 12 months of age
	– Once daily dosing is not recommended.

	Pediatrics/Adolescent (> 12 months to 18 years) (2017 DHHS Pediatric guidelines):
	<u>Treatment naïve and without nevirapine or efavirenz:</u>
	 230 mg/m²/dose LPV/ 57.5 mg/m²/dose rtv po BID to a maximum of 400 mg LPV/100 mg rtv BID
	 < 15 kg: approximately 12 mg/kg/dose LPV/3 mg/kg/dose rtv po BID
	\circ \geq 15 to 40 kg: approximately 10 mg/kg/dose LPV/2.5 mg/kg/dose rtv po BID
	 Dose based on weight for number of 100 mg LPV/ 25 mg rtv tablets:
	\circ 15 to 25 kg: 2 tablets (200/50 mg) po BID
	$\circ > 25 \text{ to } 35 \text{ kg}$: 3 tablets (300/75 mg) po BID $\circ > 35 \text{ kg}$: 4 tablets (400/100 mg) po BID
	0 > 35 kg. 4 tablets (400/100 mg) p0 BID
	Treatment experienced or patients taking nevirapine or efavirenz:
	 300 mg/m²/dose LPV/75 mg/m²/dose rtv BID to a maximum of 400 mg LPV/100 mg rtv po BID
	○ < 15 kg: approximately 13 mg/kg/dose LPV/3.25 mg/kg/dose rtv po BID
	 ≥ 15 to 45 kg: approximately 11 mg/kg/dose LPV/2.75 mg/kg/dose rtv po BID
	 Dose based on weight for number of 100 mg LPV/25 mg rtv tablets:
	 15 to 20 kg: 2 tablets (200/50 mg) po BID
	\circ > 20 to 30 kg: 3 tablets (300/75 mg) po BID
	\circ > 30 to 45 kg: 4 tablets (400/100 mg) po BID
	\circ > 45 kg: 5 tablets (500/125 mg) po BID → can be given as combination of 2 tablets of 200/50 mg LPV/rtV and 1
	Check daily design is not recommended
	- Once daily dosing is not recommended.
	Adult (> 18 years):
	– <u>< 3 LPV associated mutations</u> : 800 mg LPV/200 mg rtv po once daily or 400 mg LPV/100 mg rtv po BID
	 - <u>> 3 LPV associated mutations</u>: 400 mg LPV /100 mg rtv po BID
	 LPV associated mutations: L10F/I/R/V, K20M/N/R, L24I, L33F, M36I, I47V, G48V, I54L/T/V, V82A/C/F/S/T and I84V
	 LPV/rtv once daily is not recommended with NVP or EFV
How Supplied/	• Cotton candy flavoured oral solution: 80 mg LPV/20 mg rtv per mL (160 mL bottle). Contains alcohol 42.4% v/v and 15.3%
Storage	propylene glycol weight/volume. Solution should be refrigerated until dispensed and then stored up to 42 days at room
	temperature.
	• 100 mg lopinavir/25 mg ritonavir pediatric tablet; 200 mg lopinavir/50 mg ritonavir adult tablet, may be used in children
	capable of swallowing larger tablets. Tablets should be stored at room temperature. Tablets must be swallowed whole; they
	cannot be broken, cnewed, or crushed. Administration of crushed 200/50 mg iopinavir/ritonavir tablets to children
	significantly reduced topinavir and filonavir exposure with a decrease in AOC by 45 % and 47 %, respectively. Therefore, the use of crushed lopinavir/ritenavir tablets should be avoided if possible. [Best et al., IAIDS 2011;58:385-01]
	1 $1 $ $1 $ $1 $ $1 $ $1 $ $1 $ 1
Food	Solution: Take with food to enhance absorption.
Restrictions	Tablets: Take with or without food.

Comments	Liquid formulation contains alcohol therefore avoid co-medication with metronidazole.
	• Protease inhibitors are extensively metabolized by as well as inhibit CYP450 3A4. CHECK FOR DRUG INTERACTIONS.
	Nelfinavir (Viracept®, NFV)
Dose	Neonatal/Infant (less than 6 weeks):
	 in Canada or USA <u>NICHD/HPTN 040/PACTG 1043</u>:
	 50-75 mg/kg/dose po BID; Less than 1.5 kg- not studied (note: Alberta Health Services perinatal protocol recommends 50 mg/kg/dose po q12 h in infants with birth weight < 1.5 kg)
	Pediatric (2 – 13 years):
	• 50 mg/kg/dose po BID (range 45 – 55 mg/kg/dose); Canadian monograph recommends 25-35 mg/kg/dose po TID
	Adult/Adolescent:
	• 1250 mg po BID
How Supplied/	250 mg and 625 mg tablets; Note: 50 mg/g oral powder (144 g bottle) only available in US and is no longer available in Canada
Storage	Give with food or chartly after food for optimal abcorption
Restrictions	
Comments	• Tabs: Dissolve a 250 mg tablet in 5 mL of sterile water (50 mg/mL). Measure out dose with a syringe that has 1 mL
	increments. Round doses to closest 50 mg. Do not mix with formula.
	• For older children, tablets readily dissolve in water and produce a dispersion that can be mixed with milk/chocolate milk.
	Tablets can be crushed and given with pudding. Tablet may be mixed with food or liquid and taken immediately. Do not mix with acidic food/juice (orange or apple juice) due to bitter taste
	 Oral Powder: mix with small amount of water, milk, formula, or dietary supplements (acidic food or juice such as apple juice)
	orange juice, apple sauce not recommended- bitter taste); consume immediately; may be stored in fridge for up to 6 hours.
	• Protease inhibitors are extensively metabolized by as well as inhibit CYP450 3A4. CHECK FOR DRUG INTERACTIONS.
	Ritonavir (NORVIR®, rtv)
Dose	 Ritonavir is now used solely as a pharmacokinetic enhancer of other protease inhibitors. For dosing, see specific protease inhibitors.
How Supplied/	• 80 mg/mL peppermint/caramel liquid (240 mL bottle). Recommended to be stored at room temperature and to use by
Storage	product expiration date (limited shelf-life). (43% v/v ethanol)
	 100 mg Ofal Powder (100 mg/packet)- Available in the US only. 100 mg tablet. Store at room temperature.
	 100 mg soft elastic capsule – Available in the US only. Refrigerate until dispensed then stable at room temperature for 30
	days. (12% v/v ethanol)
Food	Take with food.
Restrictions	. Liquid is uppeletable, had offertaste. Tipe:
comments	Liquid is unpalatable, bad aftertaste. Tips:
	 – IVIX oral solution with milk/chocolate milk, or pudding.

	 Give after popsicle/frozen juice to dull taste buds. 		
	 Give after grape jelly, maple syrup, or peanut butter to coat mouth. 		
	 Give strong flavour after dose: syrup, cheese, chewing gum. 		
	• Oral powder (100 mg/packet): The entire packet should be mixed with soft food such as apple sauce or vanilla pudding, or mixed with liquid such as water, chocolate milk, or infant formula. All soft food or liquid should be consumed within 2 hours of preparation. The bitter taste may be decreased if taken with food. The powder should be used in 100 mg increments only.		
	I ne oral powder can also be administered via feeding tube after being mixed with water.		
	 During encapsulation process, exposure to soya protein lecitin and fractionated coconut oil occurs. As peanut and soy are from the same plant family, some patients allergic to peanuts may also be allergic to soy. Consult an allergist prior to taking capsules. 		
	Liquid formulation contains alcohol therefore avoid co-medication with metronidazole.		
	Tablets may not be split or crushed (Norvir® Product Monograph).		
	• Protease inhibitors are extensively metabolized by as well as inhibit CYP450 3A4. CHECK FOR DRUG INTERACTIONS.		
Protease Inhibitors (PIs)			
	Tipranavir (APTIVUS®, TPV)		
Dose	Neonate/Infant:		
	 Not approved in USA for children less than 2 years of age and in Canada for children less than 18 years of age. 		
	Pediatric (2-18 years):		
	 14 mg/kg/dose TPV + 6 mg/kg/dose rtv po BID (375 mg/m²/dose TPV + 150 mg/m²/dose rtv, both po BID) (max. 500 mg TPV + 200 mg RTV po BID) 		
	Adult/Adolescent:		
	 500 mg TPV + 200 mg RTV po BID 		
How Supplied/	250 mg capsule		
Storage	 Refrigerate the capsules until dispensed then stable at room temperature for 60 days 		
	 100 mg/mL oral solution available in the US only. Note: solution contains 116 international units/mL vitamin E. 		
	 Store oral solution at room temperature (25°C). Use solution within 60 days of opening the bottle. 		
Food	Take with food.		
Restrictions			
Comments	Capsule cannot be split or crushed (Verbal communication, Boehringer Ingelheim, May 2008).		
	 Indicated for adults who are highly treatment experienced or have resistance to multiple PIs. TDV is a sufferenciate. The netential energy approximation of the sufference of the suffer		
	 IPV is a suironamide. The potential cross-sensitivity with other suironamide drugs is unknown – caution in patients with sufferential ellergy. 		
	Suironamue allergy.		
	• Protease infinitions are extensively metabolized by as well as infibit CTP450 3A4. CHECK FOR DRUG INTERACTIONS.		

Entry and Fusion Inhibitors	
	Enfuvirtide (Fuzeon®, T-20)
Dose	Neonate/ Infant/ Pediatrics (less than 6 years):
	Not approved for use in children less than 6 years in US or Canada.
	Pediatric/Adolescent (6 - 16 years):
	 For children 6 years or more: 2 mg/kg/dose twice daily, maximum dose 90 mg (1 mL) twice daily injected subcutaneously into upper arm, apterior thigh, or abdomon. Monitor weight closely and adjust dose accordingly.
	Adult/Adolescent (more than 16 years):
	 90 mg (1 mL) twice daily injected subcutaneously into the upper arm, anterior thigh, or abdomen.
How Supplied/	 Injection: lyophilized powder for injection 108 mg of enfuvirtide, when reconstituted with 1.1 mL sterile water to deliver 90
Storage	mg/mL.
	Convenience kit:
	60 single use vials of enfuvirtide (90 mg strength), 60 vials of sterile water for injection, 60 reconstitution syringes (3 mL), 60
	administration syringes (1 mL), alcohol wipes
	 Reconstituted vial should be allowed to stand until the powder goes completely into solution (may take up to 45 min). Do not shake
	 Once reconstituted enfuvirtide should be injected immediately or stored in the fridge in the original vial until use. Must be
	used within 24 hours after reconstitution
Comments	Injection sites should be rotated. Enfuvirtide should not be injected into moles, scar tissue, bruises, or the navel.
	Maraviroc (Celsentri®, MVC)
Dose	Neonate/ Infant/ Pediatric/ Adolescent (≥-2 years and weighing ≥ 10 kg):
	 Not approved for use in children less than 2 years in US and less than 18 years in Canada.
	NCT00791700 Trial investigating use in children aged 2 to < 18 years
	Pediatric (≥ 2 years and weighing ≥ 10 kg) without CYP 3A inhibitor: (US product monograph)
	10 to < 20 kg: use not recommended
	30 to < 40 kg: $300 mg po$ BID (tablets or solution)
	> 40 kg: 300 mg po BID (tablets or solution)
	Pediatric (≥ 2 years and weighing ≥ 10 kg) with CYP 3A inhibitor:
	10 to < 20 kg: 50 mg po BID (tablets or solution)
	20 to < 30 kg: 75 mg po BID (tablets) or 80 mg po BID (solution)
	30 to < 40 kg: 100 mg po BID (tablets or solution) BID
	40 kg. 150 mg p0 DID (tablets of solution) * Use not recommended with potent CYP 3A inducers
	Adult/Adolescent (≥16 vears):
	With CYP 3A inhibitor (i.e. protease inhibitors (except TPV), ketoconazole, itraconazole, clarithromycin: 150 mg po BID

	 No CYP 3A inducer/inhibitor (i.e. TPV, NVP, T-20, NRTIs): 300 mg po BID
	 With CYP 3A inducer (i.e. EFV, ETR, rifampin, carbamazepine, phenobarbital, phenytoin) and not taking potent CYP3A inhibitor: 600 mg po BID
How Supplied/	150 mg and 300 mg film-coated tablets (25 mg and 75 mg tablets – US only). Store between 15-30°C in a USP tight container.
Storage	20 mg/mL strawberry flavored oral solution (US only); store at room temperature (20°C - 25°C).
Food	Take with or without food.
Restrictions	
Comments	CYP450 3A and p-glycoprotein (Pgp) substrate. CHECK FOR DRUG INTERACTIONS.
	 Must have HIV tropism checked to exclude CXCR4/mixed tropic strain. Use MVC only in patients with CCR5-tropic virus.
	• Film coated immediate release tablet however no studies regarding stability of split or crushed tablets. (Verbal
	communication, Pfizer, May 2008).

Integrase Inhibitors	
	Dolutegravir (Tivicay®, DTG)
Dose	Neonate/Infant:
	Not approved for neonates/infants
	Pediatric/Adolescent:
	I reatment halve or treatment experienced/INSTI-halve: (US & Canadian product monographs; DHHS 2017 Pediatric
	Guidelines)
	• < 50 kg. not approved = 20 to \neq 40 kg; 25 mg no once deily (1y10 mg tablet + 1y25 mg tablet)
	• 50 to < 40 kg. 55 mg po once daily (1x to mg tablet + 1x25 mg tablet) • > 40 kg: 50 mg po once daily
	• \geq 40 kg. 50 mg p0 once daily • Treatment paive or treatment experienced/INSTL paive when celled ministered with potent LICT1A1/CVP3A inducers (i.e.
	 Treatment haive of treatment experienced/instructive when co-administered with potent OGTTAT/CTFSA inducers (i.e. EEV/ f-ΔPV/RTV/ TPV/RTV/ or rifempin): Increase weight-based dose to BID instead of once daily (double the daily dose)
	Adult
	 Treatment naïve or treatment experienced/INSTI-naïve: 50 mg po once daily
	 Treatment naïve or treatment experienced/INSTI-naïve, when co-administered with potent UGT1A1/CYP3A inducers (i.e.
	EFV, f-APV/rtv, TPV/rtv, or rifampin): 50 mg po BID
	 INSTI-experienced with INSTI associated resistance or clinically suspected INSTI resistance: 50 mg po BID
How Supplied/	50 mg tablet
Storage	 DTG 10 mg and 25 mg tablets available (Compassionate Access- Canada)
	DTG pediatric 5 mg dispersible tablets currently under investigation; pediatric granules no longer under study (ViiV
	Healthcare communication, February 2017)
	TRIUMEQ®: 50 mg dolutegravir; 600 mg abacavir; 300 mg lamivudine fixed dose combination tablet
Food	Take with or without food
Restrictions	
Comments	• DTG 10, 25 and 50 tablets may be split into halves followed by immediate ingestion of both halves of the tablet, or crushed
	and added to a small amount of semi-solid food or liquid, all of which should be consumed immediately. [ViiV data on file,
	February, 2017]
	 Triumeq® tablets were studied in healthy volunteers. Whole tablets in fasting state were compared to:
	I. Crushed and suspended in fasting state
	II. Crushed and suspended with enteral nutrition (Nutrison)
	Intervention I showed 26% and 30% increase in DTG AUC and Cmax. Intervention II showed an 18% and 21% increase
	In DIG AUC and Cmax, respectively. Although bio-equivalence was not demonstrated, the increase in DIG exposure was
	as DTG exposure will likely be higher (Roskam-Kwint et al. CROI 2017 #P-429)
	 TPILIMEOR is film-costed, pon-scored, and pon-sustained released formulation. Although not studied, colitting or cruching.
	tablets is not expected to affect the dissolution or absonrtion. Tablets may be crushed and added to a small amount of
	semi-solid food or liquid, and consumed immediately. (Data on File, ViiV Healthcare, Oct 2014)

	UGT1A1 and CYP3A substrate. CHECK FOR DRUG INTERACTIONS
	 Take DTG 2 hours before or 6 hours after cation containing medications (antacids, laxatives, sucralfate, oral zinc or iron supplements, oral calcium supplements or buffered medications); DTG also can be administered with food at the same time as calcium or iron containing supplements.
	 Poor virologic response to DTG 50 mg po BID may occur if INSTI-resistance Q148 substitution is present, along with 2 or more additional INSTI-resistance mutations
	 Use DTG with caution with INSTI-experienced patients with CrCI < 30 mL/min because DTG concentrations will be decreased (cause unknown).
	Elvitegravir (fixed dose in Stribild® and Genvoya®, EVG)
Dose	 <u>Pediatric dosing</u>: Stribild[®] not recommended for <18 years in US and Canada (under study in 12-18 years old; Study GS-US-236-0112/NCT01721109). Genvoya[®] preferred INSTI regimen for adolescents aged ≥ 12 years and weighing ≥ 35 kg.
	 Adolescent (≥ 12 years and weighing ≥ 35kg):
	 Genvoya® 1 tablet po once daily with food (2017 DHHS Pediatric Guideline)
	 Trial underway investigating use of Stribild[®] in adolescents >12 to 18 years (NCT01721109)
	 Adult (≥ 18 years):
	 Stribild® or Genvoya®- 1 tablet po once daily with food
How Supplied/	Fixed dose combination tablet, Stribild®
Storage	 Elvitegravir 150 mg + cobicistat 150 mg + emtricitabine 200 mg + tenofovir DF 300 mg
	Fixed dose combination tablet, Genvoya®
	 Elvitegravir 150 mg + cobicistat 150 mg + emtricitabine 200 mg + tenofovir AF 10 mg
Food	With food
Restrictions	
Comments	 Crushing STRIBILD tablets into a liquid medium has not been studied and is not recommended. While emtricitabine and tenofovir are soluble in water, cobicistat and elvitegravir are practically insoluble in water. Currently, there are no studies evaluating the pharmacokinetics (e.g., oral bioavailability) of a crushed STRIBILD tablet dispersed into a liquid medium (e.g., milk, water, juice) compared to a whole tablet.
	 Splitting STRIBILD tablets has not been studied and it is not recommended. (Communication from Gilead Canada, April 2013)
	 Case report describing successful virological suppression with crushed Stribild in juice (Fulco et al. AJHP 2014 71(10);784- 6).
	 Crushing GENVOYA tablets into a liquid medium has not been studied and is not recommended. While emtricitabine and tenofovir are soluble in water, cobicistat and elvitegravir are practically insoluble in water. Currently, there are no studies evaluating the pharmacokinetics (e.g., oral bioavailability) of a crushed GENVOYA tablet dispersed into a liquid medium (e.g., milk, water, juice) compared to a whole tablet (Communication from Gilead Canada, March 2016).
	 Splitting GENVOYA tablets has not been studied and is not recommended. Currently, there are no studies evaluating the pharmacokinetics of a split versus whole tablet (Communication from Gilead Canada, March 2016) TAF is soluble in water; however, it has a bitter and burnt aromatic flavour profile.

 Do not initiate Stribild® in patients with CrCl < 70 mL/min, discontinue if CrCl < 50 mL/min No dosage adjustment required for Genvoya® if CrCl ≥ 30 mL/min Monitor creatinine clearance, urine glucose and urine protein Separate from antacids by at least 2 hours, no adjustments with H2 blockers or PPI Abrupt discontinuation may cause Hepatitis B flare. Monitor hepatic function for several months after discontinuation. Raltegravir (Isentress®, RAL) Dose Neonate: Not approved for neonates. In Canada, not approved for children less than 2 years of age. IMPAACT P1110 investigational dose for Term Infants of at least 37 weeks and birth weight of at least 2 kg: (2017 DHHS Pediatric Guidelines)		• Eivitegravir and cobicistat are metabolized by or impact CYP450 isoenzymes and Pgp. CHECK DRUG INTERACTIONS
 No dosage adjustment required for Genvoya® if CrCl ≥ 30 mL/min Monitor creatinine clearance, urine glucose and urine protein Separate from antacids by at least 2 hours, no adjustments with H2 blockers or PPI Abrupt discontinuation may cause Hepatitis B flare. Monitor hepatic function for several months after discontinuation. Dose Neonate: Not approved for neonates. In Canada, not approved for children less than 2 years of age. IMPAACT P1110 investigational dose for Term Infants of at least 37 weeks and birth weight of at least 2 kg: (2017 DHHS Pediatric Guidelines)		 Do not initiate Stribild® in patients with CrCI < 70 mL/min, discontinue if CrCI < 50 mL/min
 Monitor creatinine clearance, urine glucose and urine protein Separate from antacids by at least 2 hours, no adjustments with H2 blockers or PPI Abrupt discontinuation may cause Hepatitis B flare. Monitor hepatic function for several months after discontinuation. Raltegravir (Isentress®, RAL) Dose Neonate: Not approved for neonates. In Canada, not approved for children less than 2 years of age. IMPAACT P1110 investigational dose for Term Infants of at least 37 weeks and birth weight of at least 2 kg: (2017 DHHS Pediatric Guidelines) 		 No dosage adjustment required for Genvoya® if CrCl ≥ 30 mL/min
 Separate from antacids by at least 2 hours, no adjustments with H2 blockers or PPI Abrupt discontinuation may cause Hepatitis B flare. Monitor hepatic function for several months after discontinuation. Raltegravir (Isentress®, RAL) Dose Neonate: Not approved for neonates. In Canada, not approved for children less than 2 years of age. IMPAACT P1110 investigational dose for Term Infants of at least 37 weeks and birth weight of at least 2 kg: (2017 DHHS Pediatric Guidelines) 		Monitor creatinine clearance, urine glucose and urine protein
Abrupt discontinuation may cause Hepatitis B flare. Monitor hepatic function for several months after discontinuation. Raltegravir (Isentress®, RAL) Neonate: Not approved for neonates. In Canada, not approved for children less than 2 years of age. IMPAACT P1110 investigational dose for Term Infants of at least 37 weeks and birth weight of at least 2 kg: (2017 DHHS Pediatric Guidelines)		 Separate from antacids by at least 2 hours, no adjustments with H2 blockers or PPI
Dose Neonate: Not approved for neonates. In Canada, not approved for children less than 2 years of age. IMPAACT P1110 investigational dose for Term Infants of at least 37 weeks and birth weight of at least 2 kg: (2017 DHHS Pediatric Guidelines)		Abrupt discontinuation may cause Hepatitis B flare. Monitor hepatic function for several months after discontinuation.
Dose Neonate: Not approved for neonates. In Canada, not approved for children less than 2 years of age. IMPAACT P1110 investigational dose for Term Infants of at least 37 weeks and birth weight of at least 2 kg: (2017 DHHS Pediatric Guidelines)		Raltegravir (Isentress®, RAL)
IMPAACT P1110 investigational dose for Term Infants of at least 37 weeks and birth weight of at least 2 kg: (2017 DHHS Pediatric Guidelines)	Dose	Neonate: Not approved for neonates. In Canada, not approved for children less than 2 years of age.
Pediatric Guidelines)		IMPAACT P1110 investigational dose for Term Infants of at least 37 weeks and birth weight of at least 2 kg: (2017 DHHS
		Pediatric Guidelines)
Birth to age 7 days: 1.5 mg/kg/dose po once daily		Birth to age 7 days: 1.5 mg/kg/dose po once daily
Age 8 to 28 days: 3 mg/kg/dose po BID		Age 8 to 28 days: 3 mg/kg/dose po BID
Age > 4 weeks: 6 mg/kg/dose po BID (see dosing below)		Age > 4 weeks: 6 mg/kg/dose po BID (see dosing below)
Infant/Pediatric Desing: at least 4 weeks of ago and ≥ 3 kg and < 20 kg (2017 DHHS Pediatric Guidelines)		Infant/Podiatric Desing: at least 4 weeks of ago and ≥ 3 kg and < 20 kg (2017 DHHS Podiatric Guidelines)
111111177401111111000000000000000000000		<u>Initiality equation Dosing.</u> at least 4 weeks of age and \geq 5 kg and \geq 20 kg (2017 DTH is regulating Guidelines) . Weight based desing for oral suspension (approximately 6 mg/kg/dese no BID)
= 3 to < 4 kg = 1 ml (20 mg) no BID		= 3 to < 4 kg = 1 mL (20 mg) no BID
-4 to < 6 kg 1.5 ml (30 mg) po BID		-4 to < 6 kg 1.5 ml (30 mg) po BID
- 6 to < 8 kg 2 mL (40 mg) po BID		- 6 to < 8 kg 2 mL (40 mg) po BID
- 8 to < 11 kg 3 mL (60 mg) po BID		- 8 to < 11 kg 3 mL (60 mg) po BID
-11 to < 14 kg 4 mL (80 mg) po BID		-11 to < 14 kg 4 mL (80 mg) po BID
-14 to < 20 kg 5 mL (100 mg) po BID		– 14 to < 20 kg 5 mL (100 mg) po BID
 Maximum dose of oral suspension is 5 mL (100 mg) po BID 		 Maximum dose of oral suspension is 5 mL (100 mg) po BID
 For children weighing 11 to 20 kg, either the oral suspension or chewable tablets can be used. 		For children weighing 11 to 20 kg, either the oral suspension or chewable tablets can be used.
<u>Children ≥ 11 kg:</u>		<u>Children ≥ 11 kg:</u>
 Weight based dosing for chewable tablets (approximately 6 mg/kg/dose po BID) 		 Weight based dosing for chewable tablets (approximately 6 mg/kg/dose po BID)
- 11 to < 14 kg 75 mg po BID 3 x 25 mg po BID		- 11 to < 14 kg 75 mg po BID 3 x 25 mg po BID
- 14 to < 20 kg 100 mg po BID 1 x 100 mg po BID		- 14 to < 20 kg 100 mg po BID 1 x 100 mg po BID
- 20 to < 28 kg 150 mg po BID 1.5 x 100 mg BID (or 1 x 100 mg + 2 x 25 mg po BID)		- 20 to < 28 kg 150 mg po BID 1.5 x 100 mg BID (or 1 x 100 mg + 2 x 25 mg po BID)
- $28 \text{ to} < 40 \text{ kg}$ 200 mg po BID 2 x 100 mg po BID		- $28 \text{ to} < 40 \text{ kg}$ 200 mg po BID 2 x 100 mg po BID
$- \ge 40 \text{ kg}$ 300 mg po BID 3 x 100 mg po BID Maximum daga af abawahla tablata ia 200 mg pa BID		$- \ge 40 \text{ kg}$ 300 mg po BID 3 x 100 mg po BID Maximum daga af abawabla tablata ia 200 mg po BID
IMaximum dose of cnewable tablets is 300 mg po BID The 100 mg showable tablets can be divided into agreet beliese		Invaximum dose of chewable tablets is 300 mg po BID The 400 mg showable tablets can be divided into a gual belies
I ne 100 mg cnewable tablets can be divided into equal halves. Children/adelescents > 25 kg and Adults:		The Tou my chewable tablets can be divided into equal naives. Children/adelescents > 25 kg and Adults:
$\frac{\text{Onliden/addressents} \ge 25 \text{ kg and Address}}{400 \text{ mg film costed tablet no BID}}$		$\frac{\text{Onlite Haddlescents} \leq 25 \text{ ky and Adults}}{4.00 \text{ mg film coated tablet no BID}}$
 400 mg film-coated tablet, pt bit How Supplied/ 400 mg film-coated tablet. Store at room temperature (15-30°C). 	How Supplied/	• 400 mg film-coated tablet. Store at room temperature (15-30°C)
Storage Orange-banana flavoured 25 mg and 100 mg scored podiatric chowable tablet	Storage	 Orange-banana flavoured 25 mg and 100 mg scored pediatric chowable tablet
Chewable tablets should be stored in in original package with designant to protect from moisture		 Change-banana havoured 20 mg and 100 mg scored pediatile thewable tablet. Chewable tablets should be stored in in original package with designant to protect from moisture.
 100 mg banana flavoured oral granular powder for suspension (final concentration 20 mg/ml.) (single-use foil packet). Store 		 100 mg banana flavoured oral granular powder for suspension (final concentration 20 mg/ml.) (single-use foil packet). Store

	in original container and do not open foil packet until ready for reconstitution. Available in US or in Canada through the Special Access Program ² (Phone communication, Merck, July 2015).
Food	Take with or without food
Restrictions	
Comments	 Crushing film coated tablets not recommended. Granules (sub-units of the tablet) dissolve faster than intact tablets and may result in faster release of drug which could affect in-vivo performance. (Data on file, Merck Frosst, May 2008) Drug has a bitter taste which is masked by the film coating. Chewable tablet may be chewed, crushed or swallowed whole. Oral suspension, chewable tablets and film-coated tablets are NOT interchangeable. The chewable tablets and oral suspension have better bioavailability than the film-coated tablets. The maximum dose of the chewable tablets is 300 mg BID and the maximum dose of the oral suspension is 100 mg BID. Chewable tablets contain phenylalanine, which could be harmful to patients with phenylketonuria. Oral Powder: Each foil package contains 100 mg of RAL, which should be suspended in 5 mL of water (final concentration = 20 mg/mL). The appropriate dose (volume) should be measured with an oral syringe and should be ingested within 30 minutes of mixing. Clearance through UGT1A1. CHECK FOR DRUG INTERACTIONS.

Additional References:

- 1. Panel on Antiretroviral Therapy and Medical Management of HIV-Infected Children. Guidelines for the Use of Antiretroviral Agents in Pediatric HIV Infection. Updated April 27, 2017. Available at https://aidsinfo.nih.gov/guidelines/html/2/pediatric-arv-guidelines/47/introduction
- 2. Contact one of the outpatient pharmacies (UAH or RAH) to initiate the ordering process. For nevirapine, didanosine and stavudine liquids, additional paperwork is required in addition to the special access request forms which are available on the Health Canada website (<u>http://www.hc-sc.gc.ca/dhp-mps/acces/drugs-drogues/sapf1_pasf1-eng.php</u>). Special Access Program ph: 613-941-2108.
- 3. Panel on Treatment of HIV-Infected Pregnant Women and Prevention of Perinatal Transmission. Recommendations for Use of Antiretroviral Drugs in Pregnant HIV-1-Infected Women for Maternal Health and Interventions to Reduce Perinatal HIV Transmission in the United States. Updated Oct 26, 2016. Available at http://aidsinfo.nih.gov/guidelines/html/3/perinatal-guidelines/0
- 4. Canadian and US Product Monographs for individual antiretrovirals.

Updated by: Michelle Foisy, Pharm.D., Pam Nickel, BScPharm, Christine Hughes, Pharm.D, Sarah Lamb, PharmD Student, Northern Alberta HIV Program (NAP), Alberta Health Services, Edmonton, Alberta; and Natalie Dayneka Pharm.D. FCSHP, Children's Hospital of Eastern Ontario (CHEO), Ottawa, Ontario. July 2017