Alert	High risk medicine.		
	Increased risk of renal impairment if there is concomitant use of other nephrotoxic drugs, pre-		
	existing renal disease or dehydration.		
	Turbidity or crystallisation may occur even when mixed with compatible fluids,. Discard preparation		
	if this occurs before or during the infusion.		
	Highly alkaline and IV extravasation can cause severe tissue c	amage.	
Indication	Treatment of neonatal herpes simplex virus (HSV) infection.		
	Treatment of varicella zoster virus (VZV) infection		
	HSV suppression following treatment to prevent CNS sequela	e.	
Action	Inhibits viral DNA synthesis when activated in infected cells.		
Drug type	Antiviral		
Trade name	IV: Aciclovir Sandoz, DBL, Pfizer		
	Oral: Aciclovir GH. Aciclovir Sandoz. Acihexal. Acvclo-V. Chem	mart Aciclovir. GenRx Aciclovir. Lovir.	
	Ozvir, Pharmacor Aciclovir, Terry White Chemists Aciclovir, Zo	ovirax	
Presentation	IV: Aciclovir DBL, Pfizer : 250 mg/10 mL ampoule, 500 mg/20 mL ampoule		
	Aciclovir Sandoz: 250 mg, 500 mg vial (powder for reconstitution)		
	Oral: 200mg, 400mg, 800mg tablets (Acyclo-V, Lovir, Ozvir, Z	ovirax brands are dispersible)	
Dose	Treatment of HSV and VZV		
	IV 20 mg/kg/dose 8 hourly		
	Consider 12 hourly dosing in infants <30 weeks corrected age	where HSV or VSV is not confirmed.	
	Suppression of HSV following treatment ⁵		
	Oral 300 mg/m ² /dose three times per day for 6 months		
	Body Surface Area (BSA) calculation:		
	height (cm)	× weight (kg)	
	$BSA(m^2) = \sqrt{\frac{1}{3600}}$		
	Duration of therapy (expert recommendation)		
	Laboratory or clinically confirmed HSV confined to skin, eye	, 10–14 days	
	HSV encenhalitis or disseminated disease	21 days	
	Pre-emptive therapy (high-risk asymptomatic infant withou	t 10 days	
	laboratory confirmed infection)	(expert recommendation)	
Dose adjustment	Renal impairment		
	Creatinine concentration	Dosage and Interval adjustment	
	70–100 micromol/L	20 mg/kg 12 hourly	
	101–130micromol/L	20 mg/kg 24 hourly	
	> 130 micromol/L and/or urine output < 1 mL/kg/hour	10 mg/kg 24 hourly	
Maximum dose			
Total cumulative dose			
Route	IV or Oral		
Preparation	IV: If using Sandoz brand, reconstitute 250 mg vial with 10 m	or 500 mg with 20 mL of water for	
	injection to obtain 25 mg/mL solution. If using DBL or Pfizer k	rand, vials contain 25 mg/mL solution.	
	Draw up 4 mL (100 mg)of aciclovir and add 6 mL sodium chloride 0.9% to make final volume 10 mL		
	with a final concentration of 10 mg/mL.		
	Oral: Acyclo.V. Lovir Ozvirand Zoviray brands come as disas	wible tablets. Consider rounding if does	
	is close to half or quarter of a tablet. Disperse fraction of table	et in small quantity of water (e.g. 2 ml)	
	and give dose immediately		
	If this is not possible, disperse an entire tablet in a set quanti	ty of water, ensure mixture is a uniform	
	suspension, and draw up a fraction of this mixture and give in	nmediately. If uniform suspension	

Aciclovir Newborn use only

	cannot be produced, contact pharmacy. Example: If dose is 30 mg, disperse 200 mg tablet in 10 mL	
	of water to obtain 20 mg/mL mixture, and then give 1.5 mL.	
Administration	IV Infusion: Infuse via syringe driver over 60 minutes.	
	Oral: Dose can be given with feed.	
Monitoring	Periodic full blood count, renal function, bilirubin, and hepatic transaminases.	
	IV site for phlebitis — prepare a more dilute infusion solution if phlebitis occurs.	
Contraindications	Known hypersensitivity to aciclovir, valganciclovir or any component of the product.	
Precautions	Increased risk of renal impairment if there is concomitant use of other nephrotoxic drugs, pre-	
	existing renal disease or dehydration. Administration interval may be lengthened to minimise renal	
	effects. Refer to the renal adjustment dose in the dose adjustment section.	
Drug interactions	Concurrent use with other nephrotoxic drugs may cause renal impairment (gentamicin, furosemide).	
	Concurrent use with ceftriaxone may cause renal impairment.	
Adverse reactions	Neutropenia, thrombocytopenia may occur.	
	May cause	
	 neurotoxicity with lethargy, tremor, and agitation. 	
	 transient renal impairment which is minimised by a slow administration rate. 	
	 transient rise in AST and total bilirubin. 	
	• phlebitis at IV injection site (highly alkaline solution). The solution can be made more dilute.	
Compatibility	Fluids: sodium chloride 0.45%, sodium chloride 0.9%	
	Compatible via Y-site : Amikacin, ampicillin, anidulafungin, cefotaxime, ceftazidime, ceftriaxone,	
	cefazolin, chloramphenicol, clindamycin, dexamethasone, doripenem, erythromycin, fluconazole,	
	heparin sodium, hydrocortisone sodium succinate, imipenem–cilastatin, linezolid, lorazepam,	
	magnesium sulfate, methylprednisolone sodium succinate, metronidazole, potassium chloride,	
	ranitidine, remitentanii, sodium bicarbonate, tobramycin, trimethoprim-suitamethoxazole,	
1	vancomycin, zidovudine	
Incompatibility	Amino acid/glucose solution, glucose-containing solutions, adrenaline (epinephrine) hydrochloride,	
	bydralazine, ketamine, labetalol, lidocaine (lignocaine), midazolam, nentamidine, nenvlenbrine	
	niperacillin-tazohactam (EDTA-free) notassium nhosnhate sodium nitronrusside sodium	
	phosphate ticarcillin–clavulanate vecuronium veranamil	
Stability	Diluted solutions should be used as soon as practicable, discard unused portion.	
Storage	Store below 25°C. Do NOT refrigerate (may result in precipitation).	
Excipients	Sodium hydroxide	
Special comments	The infusion solution may be filtered. Discard the solution if visible turbidity or crystallisation	
opecial continents	annears	
Evidence	Refer to full version.	
Practice points	Refer to full version.	
References	Pofer to full version	

VERSION/NUMBER	DATE
Original 1.0	29/12/2016
Current version 2.0	16/11/2020
REVIEW	16/11/2025

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