Newborn use only

					
Alert	Not to be used in preterm infants until 4 weeks corrected gestational age.				
	Not to be used in term infants <4 weeks of age. Term infants 4-8 weeks age: Watch for rick of kernicterus in high risk group or babies with prolonged				
	jaundice.	Term infants 4-8 weeks age: Watch for risk of kernicterus in high risk group or babies with prolonged			
	Dose is expressed as trimethoprim (TMP) component.				
	-	The Antimicrobial Stewardship Team recommends this drug is listed under the following category:			
	Also known as co-trimoxaz	zole.			
Indication	Prophylaxis of urinary trac				
		infections including UTI and acute otitis media.			
	Prophylaxis in HIV-exposed infants.				
Action	Sulfamethoxazole is a sulfonamide that prevents the formation of dihydrofolic acid, a bacterial				
	compound necessary for survival. Trimethoprim is a synthetic antibiotic that interferes with the production of folic acid by inhibiting the action of dihydrofolate reductase.				
Drug type	Antibiotic.				
Trade name		ral liquid [Arrow]			
fraue fialite	Oral: Septrin Sugar Free Oral liquid [Arrow] IV: DBL Sulfamethoxazole 400 mg and Trimethoprim 80 mg Concentrate Injection BP [Pfizer]				
Presentation	Oral liquid: Trimethoprim 8 mg/mL and sulfamethoxazole 40 mg/mL, 100 mL bottle				
	IV: Trimethoprim 16 mg/mL and sulfamethoxazole 80 mg/mL, 5mL ampoule				
Dose	Dosage recommendations are based on trimethoprim component.				
	UTI prophylaxis				
	Oral: 2 mg TMP/kg/dose daily or 5 mg TMP/kg/dose twice weekly.				
	Prophylaxis in HIV-exposed infants <6 months of age				
	To commence from 4–6 weeks of age at a dose of 20 mg trimethoprim once daily (not per kg				
		basis) (equates to 2.5 mL oral liquid daily) Treatment of mild-severe infections (e.g. UTI, acute otitis media)			
	Mild to moderate				
		mg TMP/kg/dose 12 hourly (AAP Guidelines 2011).			
	Severe infections				
		ng TMP/kg/dose 6 hourly.			
Dose adjustment		enal Impairment Dose Adjustments	**		
	CrCl (mL/min)	Dosage	-		
	Above 25	Standard regimen	-		
	15 to 25	50% of the standard regimen	-		
	Below 15	Not recommended	-		
Maximum dose	1201011 20				
Total cumulative					
dose					
Route	Oral, IV				
Preparation	Oral: Oral liquid does not r	require preparation.			
	IV: Draw up 2 mL (32 mg trimethoprim and 80 mg sulfamethoxazole) and add 48 mL of sodium chloride				
	0.9%, glucose 5% or glucose 10% to make a final volume of 50mL with a concentration of 0.64 mg/mL of				
	TMP.				
	For severely fluid restricted neonates:				
	Draw up 2 mL (32 mg trimethoprim and 80 mg sulfamethoxazole) and add 18 mL of glucose 5% to make a final values of 20mL with a final concentration of 1.6 mg/mL of TMP and infuse ONLY VIA A CENTRAL				
	final volume of 20mL with a final concentration of 1.6 mg/mL of TMP and infuse ONLY VIA A CENTRAL LINE as it is an alkaline solution. Flush the line with sufficient volume of sodium chloride 0.9% to ensure				
	total dose is given.				
Administration	Oral: Administer with feeds. Shake well before measuring dose.				
	IV: Infuse over 60–90 minutes. Flush the line with sufficient volume of sodium chloride 0.9% to ensure				
	total dose is given.				
Monitoring	Watch for skin reactions an	-			
	Monitor renal function and				
Contraindications	Hypersensitivity to sulfona	imides or trimethoprim.			
	Infants < 4 weeks of age				

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Precautions	Use with caution in renal impairment. Refer to dose adjustment section.
	In individuals with glucose-6-phosphate dehydrogenase deficiency, haemolysis may occur.
Drug interactions	Sulfamethoxazole may interfere with the serum albumin binding of bilirubin to produce kernicterus. Risk of prolonged QT interval with concurrent use of chloral hydrate, erythromycin and fluconazole.
Drug interactions	Increased effects and side effects of phenytoin (folate deficiencies) could occur when sulfamethoxazole/
	trimethoprim is given concurrently. Sulfamethoxazole/trimethoprim may inhibit the hepatic metabolism
	of phenytoin.
	Concomitant use of other agents that increase serum potassium, such as angiotensin converting enzyme
	inhibitors, angiotensin receptor blockers, potassium sparing diuretics and prednisolone can lead to
	hyperkalaemia.
	Increased sulfamethoxazole blood levels may occur in patients who are also receiving indomethacin.
	Cross sensitisation may exist between sulfamethoxazole/trimethoprim and some antithyroid agents,
Advaraa reactions	diuretics (thiazides) and oral hypoglycaemic drugs.
Adverse reactions	Gastrointestinal upset (vomiting, diarrhoea).
	Severe dermatologic reactions, blood dyscrasias, hepatotoxicity.
	Prolonged use may result in fungal or bacterial superinfection.
	Prolonged QT interval, torsades de pointes, ventricular tachycardias have been reported in adults.
	Severe cases of thrombocytopenia have been reported in adults.
Compatibility	Fluids ¹⁷ : Glucose 5%, glucose 10%, sodium chloride 0.9%, sodium chloride 0.45%.
	Visite (fee dilutions of 4 in 25 only). Asistening the second second data with the film of the second s
	Y site (for dilutions of 1 in 25 only): Aciclovir, atracurium, dexmedetomidine, filgrastim, magnesium
	sulfate, morphine sulfate, piperacillin-tazobactam, vecuronium, zidovudine.
	Y-site ¹⁸ (at 0.8 and 4mg/mL in glucose 5%): Aciclovir, amphotericin B liposome, azithromycin, cefepime,
	dexmedetomidine, filgrastim, linezolid, metronidazole, milrinone, octreotide, pamidronate,
	pancuronium, piperacillin-tazobactam, potassium acetate, remifentanil, sodium acetate, vecuronium,
	voriconazole, zidovudine.
Incompatibility	Fluids: No information. ^{17,18}
	Vite 17.18. Antikacia antinantu llina antiodorona antohotorisin helinid complex anticillin attractor
	Y site ^{17,18} : Amikacin, aminophylline, amiodarone, amphotericin b lipid complex, ampicillin, atropine,
	benzylpenicillin, calcium chloride, calcium gluconate, cefazolin, cefotaxime, ceftazidime, ceftriaxone,
	chloramphenicol, clindamycin, dexamethasone, diazepam, diazoxide, digoxin, dobutamine, dopamine,
	adrenaline (epinephrine), epoetin alfa, erythromycin, fentanyl, fluconazole, folic acid, furosemide,
	ganciclovir, gentamicin, glycopyrrolate, hydralazine, hydrocortisone, imipenem-cilastatin, indomethacin,
	insulin, isoprenaline, ketamine, lidocaine (lignocaine), linezolid, methylprednisolone, metoclopramide,
	midazolam, multiple vitamins injection, nitroprusside sodium, noradrenaline (norepinephrine),
	phenobarbital (phenobarbitone), phenytoin, potassium chloride, propranolol, protamine, pyridoxine,
Stability.	ranitidine, sodium bicarbonate, ticarcillin-clavulanate, tobramycin, urokinase, vancomycin.
Stability	IV: infusion must be completed within 2 hours of preparation. Monitor for precipitation, particularly with concentrated solutions.
Storage	Store IV and oral preparations below 30°C. Do not refrigerate. Protect from light.
Storage	IV preparation: If stored at low temperatures precipitation may occur and solutions in which
	precipitation has occurred should be discarded.
Excipients	IV: diethanolamine, propylene glycol, alcohol, hydrochloric acid, sodium methabisulphate, sodium
Excipients	hydroxide.
	Oral: sorbitol, preservatives methyl hydroxybenzoate and sodium benzoate, ethanol, Cherry Flavour Artif
	F1242 (PI 286), sunset yellow, allura red, citric acid, cellulose, glycerol, polysorbate 80, sodium
	carmellose, saccharin sodium.
Special comments	
Evidence	Prophylaxis in vesicoureteric reflux
	The proportion of infants with high grade vesicoureteric reflux (VUR) among all infants with febrile UTIs is
	small. There is no statistically significant benefit of prophylaxis in preventing recurrence of febrile
	UTI/pyelonephritis in infants without reflux. ¹
	There is benefit of prophylaxis in reducing the recurrence of infections in children with VUR but no
	change in renal scarring and concerns regarding multi-resistant strains among treated children. ^{2,3}
	Treatment duration of infections

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	McMullan et al reviewed the evidence for minimum intravenous and total antibiotic duration in children younger than 18 years with bacterial infections, comparing shorter courses with traditionally longer durations. In many infections, especially when clinical improvement is rapid, emerging data suggest that traditional long durations of intravenous antibiotics might be unnecessary and that intravenous to oral switch can occur earlier. In most of the other infections, evidence for routine longer courses is sparse. ⁴ In a Cochrane review of childhood lower urinary tract infection, no difference in persistent bacteriuria or recurrence was noted between 2–4 days and 7–14 days of oral antibiotics. Results from a subsequent Cochrane review showed that a single-dose antibiotic was associated with more persistent bacteriuria than was 10 days of antibiotics, although there was no difference in symptom duration or recurrence. A large retrospective study of infants younger than 6 months found no difference in treatment failure between intravenous antibiotics for 3 days or less and 4 days or more. ⁴⁻⁷ Prophylaxis in HIV-exposed infants All HIV-exposed infants born to mothers living with HIV must receive co-trimoxazole prophylaxis, commencing at 4–6 weeks of age (or at first encounter with the healthcare system) and continued until HIV infection can be excluded. ⁸
Dractico nointe	
Practice points References	 Roberts KB; Subcommittee on Urinary Tract Infection, Steering Committee on Quality Improvement and Management. Urinary tract Infection: clinical practice guideline for the diagnosis and management of the initial UTI in febrile infants and children 2 to 24 months. Pediatrics 128(3). 595–610(2011). de Bessa JJr, de Carvalho Mrad FC, Mendes EF, Bessa MC, Paschoalin VP, Tiraboschi RB, Sammour ZM, Gomes CM, Braga LH, Bastos Netto JM. Antibiotic prophylaxis for prevention of febrile urinary tract infections in children with vesicoureteral reflux: a meta-analysis of randomized, controlled trials comparing dilated to nondilated vesicoureteral reflux. J Urol 2015;193(5 Suppl):1772-7. Pérez-Gaxiola G. Antibiotic prophylaxis reduced symptomatic urinary tract infection in children with vesicoureteral reflux, but not scarring. Arch Dis Child Educ Pract 2d 2015;100:52. McMullan BJ, Andresen D, Blyth CC, Avent ML, Bowen AC, Britton PN, Clark JE, Cooper CM, Curtis N, Goeman E, Hazelton B, Haeusler GM, Khatami A, Newcombe JP, Osowicki J, Palasanthiran P, Starr M, Lai T, Nourse C, Francis JR, Basars D, Bryant PA, ANZPID-ASAP group. Antibiotic duratin 5. Moyer VA. Short Versus standard duration oral antibiotic therapy for acute urinary tract infection in children. Cochrane Database Syst Rev 2003;1: CD003966. Fitzgerald A, Mori R, Lakhanpaul M, Tullus K. Antibiotics for treating lower urinary tract infection in children. Cochrane Database Syst Rev 2010; 126: 105–203. WHO. Guidelines on co-trimoxazole prophylaxis for HIV-related infections among children, adolescents and adults. http://www.bi.nt/entity/hiv/pub/guidelines/ctxguidelines.pdf; 2006. [accessed August 15, 2016]Micromedex solutions. Accessed on 10 August 2016. Centers for Disease Control and Prevention, National Institutes of Health, HV Medicine Association of the Infectious Diseases Society of America, et al: Guidelines for the prevention and treatment of opportunistic infections a
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Authors Contribution

Original author/s	Srinivas Bolisetty, Himanshu Popat
Evidence Review	
Expert review	Brendan McMullan, Tony Lai, Alison Kesson
Nursing Review	Eszter Jozsa, Kirsty Minter, Priya Govindaswamy
Pharmacy Review	Cindy Chen
ANMF Group contributors	Nilkant Phad, Bhavesh Mehta, John Sinn, Michelle Jenkins, Helen Huynh, Simarjit
	Kaur, Hannah Ball, Thao Tran
Final editing and review of the original	lan Whyte
Electronic version	Cindy Chen, Ian Callander
Facilitator	Dr Srinivas Bolisetty