Newborn Use Only

Alert	ORAL ADMINISTRATION ONLY The first dose of rotavirus vaccine should be given to infants between 6 and 14 weeks			nd 14 wooks
	The first dose of rotavirus vaccine should be given to infants between 6 and 14 weeks chronological age (prior to turning 15 weeks chronological age) and the second dose by 24			
	chronological age (prior to turning 15 weeks chronological age) and the second dose by 24 weeks of age (prior to turning 25 weeks of age).			
	The interval between dose 1 and 2 should not be less than 4 weeks.			
	From July 2017, only Rotarix will be made available under National Immunisation Program in			
	Australia.			
	Regular look up for any online updates by the Australian Immunisation Register is			egister is
	recommended.			
Indication	Primary immunisation of infants against rotavirus gastroenteritis.			
Action	Live attenuated human rotavirus vaccine that induces protective immunity against the			
	G1P(8) strain and some other non-G1 prevalent strains of rotavirus.			
Drug Type	Vaccine.			
Trade Name	Rotarix			
Presentation	1.5 mL oral suspension	n an oral applicator with	h plunger stopper.	
Maximum Daily Dose	See "Total Cumulative Dose"			
Total Cumulative Dose	Limited data on the safety of administering higher than the recommended dose.			
Dosage / Interval	1.5 mL orally.			
	_		with 2- and 4-month imm	
	1 can be administered at 6 to 14 weeks of age and dose 2 can be administered at 14 to 24			
	weeks of age.	atwoon first and socons	l doses must be greater tl	han 4 wooks
	NOTE: Dosage interval b		i doses must be greater ti	Idil 4 WEEKS.
	Schedule	Age limit for first	Age limit for second	Minimum interval
		dose	dose	between doses
	2 oral doses (1.5	6–14 weeks	14–24 weeks	4 weeks
	mL/dose)			
			been regurgitated or vom	
			dministered during the sa	
	necessary to repeat the		nly a small part of a vaccin	e dose, it is not
	necessary to repeat the	uose.		
	Catch-up schedule: If an infant has NOT had a dose of any rotavirus vaccine AND is ≥ 15			
	 Weeks then that infant is NOT ELIGIBLE to commence any rotavirus vaccination dose.¹ Preterm infants: Vaccine is administered at a chronologic age (without correction for prematurity) similar to term infants, if the infant is clinically stable.¹ 			
	Hospitalised infants: If s	tandard infection contro	ol precautions are mainta	ined and the infant
	-		elayed, particularly if the c	
	an infant being beyond t			,
	0 /			
			cine is not contraindicated	
	-	-	therwise medically stable.	
		stralian Immunisation Re	egistry experts Kristine M	acartney and Jim
	Buttery). ¹ Other live vaccines: Rotavirus vaccine can be given at any time before or after the routine infant immunisations and at any time before or after BCG vaccine. The recommendation for administering live vaccines either at the same time or after an interval of four weeks only			
				after the routine
	applies to injectable live viral vaccines and, therefore, not to BCG or to the oral rotavirus			
	vaccines. ²			
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Route	Oral or via gastric tube
Administration	Oral: Administer entire applicator or dosing tube content on inside of cheek with child in
	reclining position.
	Gastric tube: For infants who can't take the vaccine orally, it can be administered via a gastric
	tube; flush with air to clear the tube.
	Can be given with or without feeds.
	Record details of vaccination in patient's Personal Health Record ('Blue Book') and
	medication chart.
	Other vaccines can be given at the same time (refer to Drug interactions section).
Monitoring	
Contraindications	Anaphylaxis following a previous dose of rotavirus vaccine.
	Anaphylaxis following any vaccine component.
	Previous history of intussusception or a congenital abnormality that may predispose to
	intussusception. Fatal intussusception after the second dose has been reported in infants
	with a history of intussusception after the first dose.
	Severe Immunocompromise.
	Severe Combined Immunodeficiency (SCID).
	Do not administer to (i) infants older than 24 weeks of age as safety has not been
	demonstrated, particularly in relation to risk of intussusception, (ii) infants with
	malformation of the gastrointestinal tract that could predispose them to intussusception, (iii)
	hereditary fructose intolerance, glucose/galactose malabsorption or sucrase-isomaltase
	insufficiency.
	If infant is > 14 weeks and inadvertently receives 1st dose of rotavirus vaccine, reassure
	parents and discuss minimally increased risk of intussusception. Provide information on
	symptoms/signs of intussusception. If infant is < 25 weeks (upper limit for dose 2 of rotavirus
	vaccine), and minimum interval of 4 weeks between vaccine doses can be achieved, give a
	second dose of rotavirus vaccine
Precautions	Use with caution in infants with underlying conditions predisposing to severe rotavirus
	gastroenteritis (including metabolic disorders or chronic gastrointestinal disease e.g.,
	Hirschsprung's disease, malabsorption syndromes or short gut syndrome).
	Severe acute gastroenteritis (e.g. necrotising enterocolitis)
	Significant acute illness or temperature greater than 38°C (postpone vaccine until
	neonatologist approves).
	Use with caution in immunosuppressed infants (the theoretical risk for vaccine virus-
	associated disease is considered likely to be less than their risk from being exposed to
	disease from natural infection).
	Infants with a moderate to severe illness should be vaccinated after recovery. In addition to the factors mentioned above, this avoids superimposing potential adverse events related to
	vaccination on any concurrent illness.
	Minor infections, without fever or systemic upset, are not reasons to postpone vaccination.
	Fever secondary to environmental factors is not a reason to postpone vaccination.
	Viral shedding in stools, particularly after the first dose, could pose a risk of transmission of
	virus to immunocompromised close contacts. Good hygiene practices and contact
	precautions MUST be observed at ALL times (i.e. washing hands regularly, especially after
	changing nappies).
Drug interactions	Co-administration studies have demonstrated that rotavirus vaccine can be given
Drug interactions	concomitantly with any of the following vaccines: Diphtheria tetanus acellular pertussis
	vaccine (DTPa), Haemophilus influenzae type b vaccine (Hib), inactivated polio vaccine (IPV),
	hepatitis B vaccine (HBV), hexavalent vaccines DTPa-HBV-IPV/Hib, pneumococcal conjugate
	vaccine and meningococcal serogroup C conjugate vaccine. The studies demonstrated that
	the immune responses and the safety profiles of the administered vaccines were
	unaffected. ¹
Adverse Reactions	Diarrhoea and vomiting.
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	Intussusception—inform parents of the rare risk of intussusception and how to be alert for	
	signs and symptoms. Any suspected vaccine related adverse reactions should be reported to Therapeutic Goods Authority (more info: https://www.tga.gov.au/form/national-adverse-events-following- immunisation-aefi-reporting-form)	
Compatibility	Other vaccines can be given concomitantly.	
Incompatibility	No information.	
Storage	Store between 2 and 8°C. Do NOT freeze as this reduces potency. Storage above or below the recommended temperature may decrease potency.	
Special Comments	RotaTeq and interchangeability of vaccine: As of July 2017, RotaTeq (pentavalent human- bovine reassortant rotavirus vaccine) is not used in Australia, but it is available globally.	
	RotaTeq is given as a 3-dose course. Upper age limit for RotaTeq is prior to 33 weeks of age. An infant might have received 1 or 2 doses of RotaTeq overseas prior to arrival in Australia.	
	Where possible the completion of the course of rotavirus vaccine should be with the same vaccine from the same manufacturer. If either dose 1 or dose 2 of the rotavirus vaccine is given as RotaTeq (pentavalent human-bovine reassortant rotavirus vaccine) a third dose of either rotavirus vaccine should be given, provided the upper age limit and inter-vaccine interval are observed.	
Evidence summary	Both rotavirus vaccines have similar efficacy (around 70%) against rotavirus gastroenteritis. The efficacy against severe rotavirus gastroenteritis is higher and ranged from 85% to 100% in clinical trials in many different countries. ¹	
	Preterm infants: Rotavirus vaccine appears safe and equally immunogenic in preterm infants compared to term infants. Vaccine is administered at a chronologic age (without correction for prematurity) similar to term infants, if the infant is clinically stable. ¹⁻³	
	Hospitalised infants: If standard infection control precautions are maintained, administration of rotavirus vaccine to hospitalised infants, including hospitalised preterm infants, would be expected to carry a low risk for transmission of vaccine viruses. Furthermore, the rotavirus vaccine is highly attenuated and does not revert to a high virulence strain. Provided that the infant is medically stable, vaccination should not be delayed, particularly if the delay would result in an infant being beyond the upper age limit for vaccination. If a recently vaccinated infant is hospitalised for any reason, no precautions other than routine standard precautions need be taken to prevent the spread of vaccine virus in the hospital setting. ^{1,2}	
	Vaccine recipients may have a 1–3% higher risk of developing diarrhoea or vomiting in the week after vaccine administration. The incidence of fever, irritability and other adverse events was similar in both vaccine and placebo recipients in clinical trials. ¹	
	Vomiting and diarrhoea have not been noted as important adverse events in post-marketing surveillance of rotavirus vaccines.	
	The increased risk of intussusception after rotavirus vaccination is estimated at approximately 6 additional cases of intussusception among every 100,000 infants vaccinated, or 14 additional cases per year in Australia. The overall benefits of preventing gastroenteritis from rotavirus are much greater than the small risk of intussusception. ¹	
	Fatal intussusception after the second dose has been reported in infants with a history of intussusception after the first dose. ¹	
	Case reports indicate prolonged vaccine virus-associated gastrointestinal disease after rotavirus vaccination in infants with Severe Combined Immunodeficiency (SCID). As these infants are unlikely to generate a protective immune response to the vaccine and because of the potential harm, rotavirus vaccines are contraindicated for infants with SCID. ¹	

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