Newborn use only

Alert	ORAL ADMINISTRATION ONLY				
	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 weeks of age (prior to				
	turning 25 weeks of age).				
	The interval between dose 1 and 2 should not be less than 4 weeks.				
	In Australia and New Zealand,	regular look up f	or any online updates	by the Immunisation Handbo	ok
	is recommended.				
Indication	Primary immunisation against rotavirus gastroenteritis.			1	
Action	Live attenuated numan rotavir	us vaccine that i	nduces protective imm	unity against the G1P (8) stra	ın
Drug Tupo	Vassing	ent strains of ro	lavirus.		
Trade Name	Rotariy				
Presentation	KULdTIX				
Dose	1.5 mL oral suspension in an oral applicator with plunger stopper or in a squeezable tube.				
Dose	L.J IIIL Utally. Drimary schedule: 2-dose course administered with 2- and 4-month immunications i.e., dose 1 can be			he	
	administered at 6 to 14 weeks	of age and dose	2 can be administered	at 14 to 24 weeks of age.	NC
	NOTE: Dosage interval betwee	n first and secon	d doses must be great	er than 4 weeks.	
	Schedule	Age limit for	Age limit for	Minimum interval	
		first dose	second dose	between doses	
	2 oral doses (1.5 mL/dose)	6–14 weeks	14–24 weeks	4 weeks	
	NOTE: If most of the oral rota	virus vaccine has	s been regurgitated or v	vomited within minutes of	
	administration, a single repeat	dose can be adr	ministered during the s	ame immunisation encounter	r . If
	an infant regurgitates or vomit	s only a small pa	art of a vaccine dose, it	is not necessary to repeat the	e
	dose.				
	Catch-up schedule: If an infant	t has NOT had a	dose of any rotavirus v	accine AND is \geq 15 weeks the	n
	that infant is NOT ELIGIBLE to o	commence any r	otavirus vaccination do	ose. ¹	
	Preterm infants: Vaccine is add	ministered at a c	hronologic age (withou	it correction for prematurity)	
	similar to term infants, if the ir	ifant is clinically	stable. ¹		
	Hernitalized infants, if standa	rd infaction cont	rol proceptions are ma	intained and the infant is	
	modically stable vascination s	hould not be dol	avod particularly if the	delay would result in an infa	nt
	heing beyond the upper age lir	nit for vaccinatio	ayeu, particularly if the	e delay would result in an ima	iit.
			л.		
	Systemic corticosteroid thera	ov: Rotavirus vad	ccine is not contraindic	ated in neonates on inhaled o	or
	systemic corticosteroids if they	vare otherwise r	nedically stable. ¹		
	-,				
	Exposure to anti-CD20 therapy	y in utero: Rotar	ix should be withheld i	n infants whose mothers wer	e
	taking anti-CD20 therapy (inclu	uding rituximab)	during pregnancy. Rota	arix can be given to infants	
	whose mothers were taking ot	her biologic imm	nunosuppressants duri	ng pregnancy. ¹	
	Other live vaccines: Rotavirus	vaccine can be g	iven at any time before	e or after the routine infant	
	immunisations and at any time	e before or after	BCG vaccine. The recor	mmendation for administerin	g
	live vaccines either at the same	e time or after a	n interval of four weeks	s only applies to injectable liv	e
	viral vaccines and, therefore, n	ot to BCG or to I	the oral rotavirus vacci	nes. ²	
Dose adjustment					
Maximum Dose	Limited data on the safety of a	dministering hig	her than the recomme	nded dose.	
Route	Oral or via gastric tube				
Preparation	The vaccine is ready to use; no	reconstitution c	or dilution is required.		

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Administration	The vaccine is presented as a clear and colourless liquid. It should be inspected visually for any foreign
	particulate matter and/or abnormal physical appearance. In the event of either being observed, the
	vaccine is not suitable for use.
	Oral: Administer entire applicator or dosing tube content on inside of cheek with child in reclining
	position. Castria tuba: Far infants who can't take the vaccine arally, it can be administered via a castria tuba.
	Gastric tube: For infants who can't take the vaccine orally, it can be administered via a gastric tube;
	Can be given with an without foods
	Call be given with or without reeds. Record details of vaccination in nationt's Personal Health Record ('Blue Book') Australian
	Immunisation Register and medication chart
	Other vaccines can be given at the same time (refer to Drug interactions section).
	Discard the empty oral applicator and tip cap according to local regulations.
Monitoring	Symptoms suggestive of intussusception such as severe abdominal pain or distress, persistent
0	vomiting, bloody stools, palpable abdominal mass, abdominal bloating and/or high fever.
	Parents should be advised to seek medical advice promptly where these symptoms are evident.
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 Immunocompromised status including maternal anti-CD20 therapy during pregnancy
	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 doce 2 of retayirus vassing), 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
riccautions	(including metabolic disorders or chronic gastrointestinal disease e.g. Hirschsprung's disease
	malabsorption syndrome 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.
	immunocompromised close contacts. Good bygiene practices and contact procedutions MUST be
	observed at AIL times (i.e. washing hands regularly, especially after changing nappies)
Drug Interactions	Co-administration studies have demonstrated that rotavirus vaccine can be given concomitantly with
	any of the following vaccines: Diphtheria tetanus acellular pertussis vaccine (DTPa) Haemonbilus
	influenzae type b vaccine (Hib), inactivated nolio vaccine (IPV), hepatitis R vaccine (HRV), 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

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Adverse	Diarrhoea, vomiting and hematochezia.
Reactions	Intussusception—inform parents of the rare risk of intussusception and how to be alert for signs and
	symptoms.
	Irritability, flatulence, abdominal pain, dermatitis, Idiopathic thrombocytopenic purpura,
	bronchopneumonia, Kawasaki disease, hypotonic-hyporesponsive episode have also been reported
	after vaccination.
	Any suspected vaccine related adverse reactions should be reported to Therapeutic Goods Authority.
Overdose	AUSTRALIA: Contact the Poisons Information Centre on 13 11 26 for information on the management
	of overdose
	NEW ZEALAND: Contact the National Poisons Centre on 0800 764 766 for information on the
	management of overdose.
Compatibility	Other vaccines can be given concomitantly.
Incompatibility	No information.
Stability	
Storage	Store between 2 and 8°C. Do NOT freeze as this reduces potency. Protect from light. Storage above or
	below the recommended temperature may decrease potency.
Excipients	sucrose, disodium adipate, Dulbecco's Modified Eagle Medium and
	sterile water
Special	RotaTeq and interchangeability of vaccine: As of July 2017, RotaTeq (pentavalent human-bovine
Comments	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	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. ¹⁻⁷
	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 automistration. The incidence of lever, initiability and other adverse events was similar in both
	Vaccine and placebo recipients in clinical trials. ²⁷
	vomiting and diarmoea nave not been noted as important adverse events in post-marketing
	Survemente of roldvirus valumes.
	additional cases of intussusception among every 100,000 infants vaccinated, or 14 additional cases
	auditional cases of intrussusception among every 100,000 intants vaccinated, of 14 auditional cases
	per year in Australia. The overall benefits of preventing gastroenteritis from rotavirus are much
	Breater than the small fisk of mussusception.
	ratal introsusception after the first does 1

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	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	
Due eties a sinte	vaccines are contraindicated for infants with SCID. ¹	
Practice points		
References	1. Australian Immunisation Handbook, Australian Government Department of Health and Aged	
	Care. Accessed on 25/05/2025.	
	2. Greenbook. United Kingdom Immunisation schedule. Immunisation against infectious disease.	
	Update. Rotavirus. Chapter 27b. Accessed on 25 January 2018.	
	3. Armstrong C. AAP updates on guidelines on rotavirus vaccination. Am Fam Physician	
	2010;81(4):552-553	
	4. Product information:	
	https://www.ebs.tga.gov.au/ebs/picmi/picmirepository.nsf/pdf?OpenAgent&id=CP-2010-PI-	
	<u>06401-3</u> Accessed 08/05/2025.	
	5. Pereira P, Vetter V, Standaert B, Benninghoff B. Fifteen years of experience with the oral live-	
	attenuated human rotavirus vaccine: reflections on lessons learned. Expert Rev Vaccines. 2020 Aug;19(8):755-769.	
	6. Fathima P, Jones MA, Moore HC, et al. Impact of Rotavirus Vaccines on Gastroenteritis	
	Hospitalizations in Western Australia: A Time-series Analysis. J Epidemiol. 2021 Aug 5;31(8):480- 486.	
	7. Costantino C, Conforto A, Bonaccorso N, et al. Safety of Rotavirus Vaccination in Preterm Infants	
	Admitted in Neonatal Intensive Care Units in Sicily, Italy: A Multicenter Observational Study.	
	Vaccines (Basel). 2023 Mar 23;11(4):718.	
	8. Van Dongen JAP, Rouers EDM, Schuurman R, et al. Rotavirus Vaccine Safety and Effectiveness in	
	Infants with High-Risk Medical Conditions. Pediatrics. 2021 Dec 1;148(6): e2021051901.	
	9. Wu Z, Li Q, Liu Y, L H, Mo Z, et al. Efficacy, safety and immunogenicity of hexavalent rotavirus	
	vaccine in Chinese infants. Virol Sin. 2022 Oct;37(5):724-730.	

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