Clinical Pathway	Per	tussis	Updated March 2023
 Key Points Bordetella pertussis is a bacterial illness transmitted by Pertussis is especially serious in infants under 12 mont Incubation period 7-10 days (range 5-21) Case is most infectious from the onset of catarrhal sym 80% of non-immune household contacts will acquire the Exclude from work, school, ECEC until 2 days of Azithr weeks from onset of paroxysmal cough if not treated Clinically compatible illness: a cough and one or more vomiting, cyanosis, or apnoea; inspiratory whoop 	ns of age (70% hospitalised, 30% apnoea) ptoms to 3 weeks after onset of cough e disease omycin/ 5 days other antibiotics OR from 3	pnoea) • Onder investigation: a case that has been notified, but information is not yet available to classify it as probable or confirmed igh • Probable case: a clinically compatible illness with • positive B. pertussis serology or, • no other known cause from 3 • Confirmed case: a clinically compatible illness that is • laboratory confirmed by culture/PCR, or	
CLINICAL FEATURES	MANAGEMENT OF CASE LABORATORY TESTING		CONTACT TRACING & MANAGEMENT
 Catarrhal stage (7-10 days) Fever, Runny nose, Malaise, Cough paroxysmal/Toxaemic stage (6-8 weeks) Severe prolonged coughing. May end with: 	age (7-10 days)age (7-10 days)by nose, Malaise, Cough Toxaemic stage (6-8 weeks)Toxaemic stage (6-8 weeks)bonged coughing. May end with: spiratory whoop procea omiting nonths and immunised cases may not bical whoop. Infants may only present withNS nfections prolonged coughing. e.g. sub conj. age, epistaxis, petechiae, hernia, CNS eeumothoraxNS PHS WITH THE FOLLOWING:PHS WITH THE FOLLOWING:Indext Stage (7-10 days)Indext Stage (7-10 days)Indext Stage (7-10 days)Investigate only where necessary - Preferred: Flocked nasopharyngeal swab for PCR - NP charcoal swab for culture early in illness - Paired serology (2-4 weeks apart) late in illness - Day 1 solution a single dose (max 500mg / day)Day 1: 10mg/kg/day in a single dose (max 250mg / day) - Days 2-5: 250mg once daily - Exclusion: 2 days (48 hrs) since treatment started		 The aim of contact management is two-fold: To identify symptomatic contacts for treatment. A contact can be defined as someone who has been in close proximity (within 2 meters) of the index case for 1 hour or more, during the cases infections period or who has had direct contact with respiratory secretions. To provide chemoprophylaxis to reduce the odds of infection in high priority contacts: infants under 12 months pregnant women in their 3rd trimester immune compromised, those with chronic disease contacts who themselves have daily contact (e.g. through childcare or work) with infants under 12 months, pregnant women, or others at risk of severe illness or complications CHEMOPROPHYLAXIS OF CONTACTS Recommend for all High Priority Contacts (as above) Same antibiotics/dose/duration as first line treatment
 Inspiratory whoop Apnoea Vomiting Infants < 6 months and immunised cases may not have a typical whoop. Infants may only present with apnoea. 			
 COMPLICATIONS Secondary infections Sequelae of prolonged coughing. e.g. sub conj. haemorrhage, epistaxis, petechiae, hernia, CNS haem., pneumothorax 			
NOTIFY TO ARPHS WITH THE FOLLOWING:			Other Contacts Anyone exposed to pertussis may benefit from chemoprophylaxis Chemoprophylaxis is least likely to be of benefit to the following:
 by Phone 09 623 4600 or notify@adhb.govt.nz Your details: Name, treating doctor, contact no. Case details: Name, address, age, ethnicity, NHI, occupation, contact number, pregnancy Clinical History: Include onset date of illness, paroxysmal cough onset date. Laboratory tests: Any tests arranged Immunisation Status: Dates of immunisations if available (schedule is 6 weeks, 3 months, 5 months, 4 years, 11 years) Links to confirmed or probable cases: Including names 	2. Erythromycin ethyl succinate (EES/E-M funded for treatment in children aged 12 mor adults but must be given as a 14-day course Children 12 months or older: 10 mg/kg/dos	nths and older and in ::	 5-15 years and fully immunised (including 4, 11 years booster) >15 years and had TdaP in the last 5 years EXCLUSION OF CONTACTS All contacts should be advised to avoid attending ECEC, school, work or associating with high risk individuals if they become symptomatic.
	14 days (max 400mg qid) <u>Adults</u> : 400 mg four times a day for 14 days		Contact exclusion for 14 days after their last exposure to the infectious case is recommended where: Contacts have been advised prophylaxis (high priority contacts); AND They are incompletely immunised for age; AND
	Exclusion: 5 days since treatment has starte NOTE: Macrolide use in pregnancy and the been associated with an increased risk of hy stenosis.	neonatal period has	They refuse to take prophylactic antibiotics RESOURCES For written resources for health professionals and patients refer to:
	Roxithromycin (RULIDE) is <u>NOT</u> recommend treatment or prophylaxis due to low serum an concentrations.		https://www.arphs.health.nz/our-resources/category/whooping-cough-pertussis