



ThinkAskLearn
Health Professional Education

Classic Paediatric Rashes

David Corkill
Emergency Nurse Educator
MEmergN, MAdvPrac (Hth Prof Edu), BN, Dip App Sc

www.thinkasklearn.com.au



What is that...

- 48 day old infant presents to Triage by mother
- Has a rash over last week
- S/B GP 4 days ago Dx with Eczema
- O/E irritable child
- Polymorphous rash that covers whole body
- Rash is described as maculopapular, vesicular and pustular



Definitions

- Mac
- R
-



- P



Definition



- Pust
- A
- ne





More History

- During late pregnancy mother had pruritic rash
- As did 4 year old brother who attends daycare











Scabies in Kids and Adults

- Classic clinical features include
 - intense itch
 - presence of characteristic skin burrows, which can be linear or 's' shaped,
 - papules, nodules, vesicles and pustules
 - lesions are usually seen in the finger webs and flexural regions of the wrists, elbows, axillae and perineal regions in older children and adults
 - nodules on the penis and scrotum are pathognomonic



However in Neonates

- Neonates do not itch
- Usually extensive rashes
- Irritability,
- Poor feeding and failure to thrive
- Lesions spread rapidly
 - involve the face, scalp, palms and soles
- Vesicles are common, leading to early pustulation, crusting and scaling



Back to Clinic

- A well 7 year old child has had these lesions on his legs for seven days
- His 4 year old sister has the same skin eruption





Impetigo – School Sores

- Reddened sores or blisters
 - break open, ooze, and develop a yellow-brown raised crust, can occur anywhere esp mouth, face
- High contagious bacterial infections
 - *Staphylococcus* or *Streptococcus* bacteria (AB's)
- Incubation period
 - 1-10 days (usually 3 days)
- Good hand hygiene (Staff and patient)







Chicken Pox



Chicken Pox

- Common/Highly infectious. It is most common (often epidemic) in late winter and spring
- Varicella zoster virus
- 1st sign itchy rash which spreads to scalp, axilla, back
- Mild fever/cough may precede rash
- Small pink spots which become little water blisters and then become yellow, oozy and finally dry as crusts.



Chicken Pox - Highly Infectious

- Usually from 2 days before the rash appears and until spots are dry and crusted (usually 5 days after the spots first appear)
- The illness may develop 10 to 21 days after contact with an infected person
- The disease is very easily spread, by direct contact and by droplet spread from the nose and throat
- Those in contact with chickenpox who have not had it before are likely to get the disease



Chicken Pox Management

- Isolation
- Uncomplicated and resolves completely
- Symptomatic Treatment
 - Antipyretics
 - Analgesia
- Pock marks - to pick or not to pick
- Pneumonitis- occ in adults but rare in children
- Observe for bacterial skin infected- infected lesions



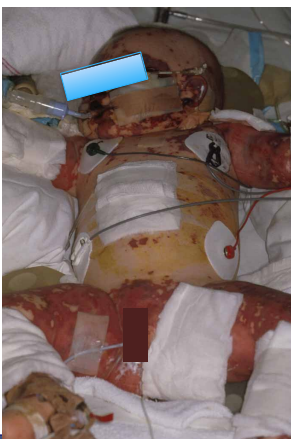


Meningococcal Infections



Meningococcal Infections

- Bacterial meningitis - rapid and fatal illness
- Headache, fever, meningism (headache, neck ache and back ache, stiff neck, photophobia,) and mental obtundation- often absent or diminished in very young.
- Haemorrhagic Rash - does not blanch under pressure
- Do not delay treatment



Meningococcal Infections





Meningococcal Infections



Meningococcal Infections



Meningococcal Infections



Measles



Measles

- Now very uncommon due to immunizations
- Public health emergency
- Incubation period is 10 days (7-18) from exposure to onset of rash
- Communicable spread - about 5 days before rash and 4 days after rash appears



Measles

- Highly infective virus that effects the resp tract.
- Airborne virus spread by droplet, or direct contact with nasal secretions.
- Flu like symptoms, fever, cough, runny nose, conjunctivitis worsening over 3 days
- Small white spots on a red base on inside of cheek known as Koplik spot's





Complications of Measles

- 4% - pneumonia
- 2.5% - middle ear infection
- 1 in 2000 will contract encephalitis
- For every 10 kids with encephalitis 1 will die and 4 will have permanent brain injury



Measles in Aust

Government of South Australia
SA Health

Home > About us > News and media > All media releases > Measles case 25 March 2023

Measles case 25 March 2023

25 March 2023

New measles case in Victoria

Measles alert for Western Sydney

Health alert

Public Health Alert: Measles case notified in Canberra

Government of Western Australia
Sunshine Coast
Department of Health

Home > About us > News > Public Health alert - Measles - Venue of concern

Public Health Alert - Measles - Venue of concern

17 April 2023

Measles alert for Perth

Confirmed case of measles in Launceston



Measles

More measles cases in Victoria

18 March 2025



Measles

Health alert

MEDIA STATE

Status: Active

Metro North

Alert number: 250519

The case was

Date issued: 19 May 2025 - Update to alert issued 13 May 2025

Issued by: Dr Christian McGrath, Chief Health Officer

Issued to: Health professionals and the Victorian community

WHO



Mumps

- Caused by a mixo virus
- The saliva is infectious six days prior to the onset of swelling of the salivary glands.
- The individual may be infectious for up to two weeks after the onset of swelling of the glands.
- Fever
- Swollen parotid glands - Difficulty swallowing
- Symptomatic treatment



Mumps



Rubella



Rubella





Rubella - German measles

- Incubation period from exposure to rash is 14-21 days
 - Mild fever and headache
 - Swollen, tender lymph nodes at the base of the skull, the back of the neck, and behind the ears
 - Aching joints
 - Runny nose
 - Red, runny eyes
 - A pink rash on the face, body, arms and legs (may appear before or after other symptoms occur) short lasting 3 days



Rubella

- Symptoms of Congenital Rubella syndrome
 - Deafness
 - Heart defects
 - Cataracts and other eye defects
 - Abnormally small head
 - Mental retardation

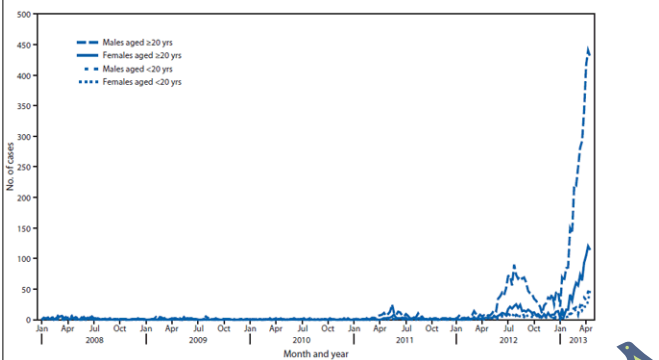


Rubella Complications

- 9 out 10 pregnancies (1st 8-10 weeks) -
 - Damage to unborn fetus (multiple defects common)
- 1 in 5 to 10 (between 10 and 16 weeks)
 - Damage to unborn fetus
- After 16 weeks damage is rare
- Bleeding disorders 1 in 3000
- Encephalitis 1 in 6000




Figure 1 is a dual-axis chart showing the number of reported cases (green bars) and the incidence rate (blue line) of pertussis in the United Kingdom from 1979 to 2011. The left Y-axis represents the number of reported cases (0 to 7000), and the right Y-axis represents the incidence rate per 100,000 population (0.0 to 30.0). The X-axis represents the year. Two key events are marked: 'Routine 1-dose MMR introduced (1983)' and 'Routine 2-dose MMR introduced (1996-1997)'. The chart shows a significant peak in 1983, followed by a decline and then a major resurgence starting around 1996, peaking in 1997, and remaining high until 1999. A smaller peak is visible around 2005.



Time Out

Keeping your child and other kids healthy!



Q&A

- Information for a number of infectious conditions that may require exclusion of children from school, day care and camp.
- Definitions and key health recommendations that apply to children and adults.
- To meet the needs of teachers, schools, physicians and childcare facilities to meet the public health and community recommendations.

Information on this page is current as of the date of the last update. For more information on this page, please visit the [New York State Department of Health website](https://www.health.ny.gov/diseases/communicable/exclusion/). For more information on this page, please visit the [New York State Department of Health website](https://www.health.ny.gov/diseases/communicable/exclusion/). For more information on this page, please visit the [New York State Department of Health website](https://www.health.ny.gov/diseases/communicable/exclusion/).

	Person with the infection	Those in contact with the infected person
Chickenpox (varicella)	EXCLUDED until the infection clears and it is 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Cold and cough (coryza)	NOT EXCLUDED if the person can maintain hygiene practices to minimize the risk of transmission. Young children who are unable to maintain hygiene practices should be excluded for 5 days after the onset of symptoms.	NOT EXCLUDED
Exanthema	EXCLUDED until discharge from a hospital unless a doctor has diagnosed the infection as non-infectious.	NOT EXCLUDED
COVID-19	EXCLUDED until symptoms have resolved, usually 5+ days.	NOT EXCLUDED
Enterovirus (ECHO)	NOT EXCLUDED until symptoms have resolved, usually 5+ days.	NOT EXCLUDED until symptoms have resolved, usually 5+ days.
Herpes and/or Herpes Simplex (HSV)	EXCLUDED until the infection has been treated with antiviral medication.	NOT EXCLUDED
Measles	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Scarlet fever	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group A Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group B Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group C Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group D Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group E Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group F Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group G Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group H Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group I Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group J Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group K Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group L Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group M Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group N Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group O Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group P Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group Q Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group R Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group S Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group T Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group U Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group V Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group W Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group X Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group Y Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group Z Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group AA Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group AB Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group AC Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group AD Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group AE Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group AF Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group AG Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group AH Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group AI Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group AJ Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group AK Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group AL Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group AM Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group AN Streptococcus)	EXCLUDED until 7 days after the onset of symptoms.	EXCLUDED until 7 days after the onset of symptoms.
Strep throat (Group AO Streptococcus)	EXCLUDED	

Any questions?