

Childhood exanthema diseases				
Classical name	"systematic exant. name"	Pathogen		
Measles (rubeola)	1 <sup>st</sup> childhood disease	morbillivirus		
Scarlet fever	2 <sup>nd</sup> childhood disease	Streptococcus pyogenes		
Rubella (German measles)	3 <sup>rd</sup> childhood disease	Rubivirus		
Filatov-Duke's disease (pseudoscarlantina)	4 <sup>th</sup> childhood disease	Coxackie and Echoviruses		
Erythema infectiosum	5 <sup>th</sup> childhood disease	Parvovirus B19		
Exanthema subitum – Roseola infantum	6 <sup>th</sup> childhood disease	HHV-6 and HHV-7		
Hand, Foot and Mouth disease	7 <sup>th</sup> childhood disease	Coxackie A-16		

aramyxoviridae			
Members of the Paramyxovirus Family			
SUB-FAMILY	GENUS	MEMBERS	GLYCOPROTEINS
Paramyxovirinae	Respirovirus	Human parainfluenza virus1 (HPIV 1) Human parainfluenza virus3 (HPIV 3)	HN, <b>F</b>
	Rubulavirus	Human parainfluenza virus2 (HPIV 2) Human parainfluenza virus4 (HPIV 4) <b>Mumps virus</b>	HN, F
	Morbillivirus	Measles	H, <b>F</b>
	Henipavirus	Hendravirus Nipahvirus	G, F
Pneumovirinae	Pneumovirus	Respiratory syncytial virus	G, F
		Metapneumovirus	
pleomorphic	HG glycoprotein KES F glycoprotein SPIKES helical nucleocapsid (RN. NP protein) - lipid bilayer membra polymerase (2 proteins)	<ul> <li>ss (-) RNA virus</li> <li>genome length 15-1</li> <li>coding 8 proteins</li> <li>spherical symetry of diameter of 100-300</li> </ul>	6 kb f capsid and ) nm <sup>k.org/mhunt/mump-meas.ht</sup>



Paramyxoviridae	9						
Measles							
MeV emerged as a zoonotic infection <sup>171</sup>	Introduction of MeV in the Americas <sup>173</sup>	Introduction of MeV vaccine	WHO re vitamin	commendations on A supplementation	Globa elimin	l Vaccine Action ation targets ap	n Plan with measles oproved by the WHA
Before -300	00 1500	1900–1950 1917	1963	1987	2010	2012	2015
Establishment of MeV infection in human populations <sup>17</sup>	Reduction of measl mortality in industr countries	les Outbreak of Me rialized in the US army deaths as a cor	eV infection with 3,000 sequence <sup>174</sup>	WHA established targets for measle to be reached by 2	global es control 2015	79% reductio deaths due to with rates in	on in the number of o measles compared 2000 (REFS 8,11)
Closely related to the rec virus (MeV) probably ev zoonotic infection in com proximity <sup>171</sup> . MeV most I years ago when human Eastern agrarian civilizat not always have a global c in the fifteenth century	ently eradicated cattle olved from an ancestr munities in which cattl kely became establish populations achievec ions to maintain virus tu istribution and probably with the immigration	virus rinderpest <sup>196</sup> , measle al virus and emerged as e and humans lived in close ed in humans about 5,00 I sufficient size in Midd ransmission <sup>197</sup> . Measles di y first entered the America n of Europeans. MeV an	es Americar a susceptil e from 191 0 deaths pr e associate d antibioti s prevente d WHA, Wo	n civilizations by cat ole Native American 7 to 1918 that ress ovided a striking ex d bacterial co-infec cs or measles vacci d an estimated 17.1 orld Health Assembl	using large ns <sup>173</sup> . The c ulted in >9 ample of tl tions that nes <sup>174</sup> . Inc million dea y. Nat Rev	numbers of de putbreak of me 95,000 cases o he devastating occurred befor creasing measl aths between 2 Dis Primers. 2	eaths among the fully asles in the US Army f measles and 3,000 effect of measles and e the introduction of es vaccine coverage 000 and 2014 (REF. 8), 2016 Jul 14:2:16049.
2 2016 VOLUME 2						w	ww.nature.com/nrdp
<ul> <li>Measles is a l complications</li> <li>Measles vacc</li> <li>Even though a 136 000 meas the age of 5 y</li> <li>The proportio the 2019 leve</li> </ul>	highly contagiou and death. ination averted a safe and cost- sles deaths glol ears. n of children rec l of 86%.	us, serious airbori 57 million deaths effective vaccine bally, mostly amo ceiving a first dos	ne diseas being be is availal ng unvac e of meas	e caused by stween 2000 a ble, in 2022, t scinated or un sles vaccine v	a virus and 202 here w der vao vas 839	that can le 22. ere an est ccinated cl % in 2023,	ead to severe iimated hildren under , well below

































Togaviridae	Rubel	la - Gerr	nan measles
	Conge	nital Rubella	
Crosses plac The earlier th May result in Intrauterine gr Hepatosplenor Cataracts Mental retarda Sensorineural Heart-Patent d Pulmonary ste Thrombocytop	enta when mother has e fetus is infected -> m serious congenital abn owth retardation negaly tion hearing loss <u>luctus arteriosis</u> nosis enic purpura	acute infection. nore serious disease formalities	<ul> <li>A cataracts</li> <li>Cataracts</li> <li>PDA</li> <li>Cataracts, and deafness</li> <li>+/- "blueberry muffin" rash</li> </ul>
Bluet	perry Muffin Rash	PDA	deafness +/- "blueberry muffin" rash



































































