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VIROLOGY WEEKLY REPORT

2013/21 04 June 2013

A summary of laboratory-diagnosed viral infections of interest for the week of 20/05/2013 - 26/05/2013

PRIMARY DIAGNOSTIC REPORTS ON VIRAL INFECTIONS REPORTED THIS WEEK

	Laboratories reporting Virus Identification				TOTAL
	Auckland labs	Waikato lab	Wellington labs	Christchurch lab	
Influenza B			4		4
Metapneumovirus	1				1
Mycoplasma Pneumoniae				8	8
Parainfluenza 2	2			2	4
Picornavirus	26				26
Respiratory Syncytial Virus (RSV)	14	2	1	2	7
Rhinovirus	2		14	16	32
Rotavirus	1	3			4
Varicella Zoster Virus (VZV)	3	4	4	11	22
Adenovirus	11		7	1	19
Enterovirus	27	1	6	1	37

TYPING AND IDENTIFICATIONS FOR VIRUSES WITH PUBLIC HEALTH IMPORTANCE (ESR and others)

Virus	Type/ subtype	ID Method	Health district	Specimen Type/site	Date Specimen taken	Age/ sex	Clinical data
Adenovirus	Type 2	Seq	WK	Unknown	22.4.2013	1 Y/M	
Adenovirus	Type 2	Neut	CA	NPA	09.5.2013	10M/F	
Adenovirus	Type 3	Seq	SA	Nasopharynx	29.4.2013	1 Y/F	
Adenovirus	Type 3	Seq	SA	Nasopharynx	27.3.2013	6 M/M	
Adenovirus	Type 3	Seq	SA	Nasopharynx	17.4.2013	7 M/M	
Adenovirus	Type 4	Neut	CA	Eye Swab	27.4.2013	5Y/M	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Toe Swab	01.4.2013	1Y/F	
Enterovirus	Coxsackievirus Group A type 6	Seq	CB	Unknown	15.4.2013	1 Y/F	
Enterovirus	Coxsackievirus Group A type 6	Seq	HB	Unknown	17.4.2013	1 Y/F	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Throat, Rectal, & Perianal swab	21.3.2013	2Y/M	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Vesicle Swab	25.3.2013	57Y/F	Vesicles hand & foot
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Swab	26.3.2013	1Y/F	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Throat Swab	29.3.2013	8M/F	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Leg Swab	30.3.2013	1Y/F	Lesion
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Anal Swab	31.3.2013	1Y/M	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Chin Swab	18.5.2013	1Y/M	Blisters in mouth, chin, perianal and hands
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Throat Swab	13.5.2013	2Y/M	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Swab	09.5.2013	35Y/M	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Swab	07.5.2013	2 W/F	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Swab	03.5.2013	10M/F	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Face Swab	12.4.2013	1Y/F	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Swab	19.4.2013	1Y/F	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Hand Swab	29.4.2013	28Y/F	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Plasma	26.4.2013	36Y/M	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Swab	22.5.2013	10M/M	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Swab	21.5.2013	20Y/M	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Arm Swab	01.4.2013	1Y/M	Vesicle
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Swab	18.5.2013	1Y/M	Rash over buttocks & waist

Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Lip Swab	31.3.2013	1Y/M	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Throat Swab	15.5.2013	2Y/M	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Leg Swab	06.5.2013	1Y/M	Rash. Red circles around blisters
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Swab	06.5.2013	8M/M	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Swab	03.5.2013	1Y/F	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Swab	16.4.2013	9M/M	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Blister Swab	10.4.2013	8M/F	Blisters
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Mouth Swab	10.4.2013	29Y/F	Mouth ulcer
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Swab	07.4.2013	1Y/F	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Swab	01.4.2013	1Y/M	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Knee Swab	01.4.2013	8M/M	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Throat Swab	13.5.2013	1Y/M	
Enterovirus	Coxsackievirus Group A type 6	Seq	CA	Chin Swab	20.5.2013	48Y/M	Rash in chin, low lip lesions in face & soft palate

CA: Central Auckland

CB: Canterbury

HB: Hawkes Bay

NM: Nelson-Marlborough

SA: South Auckland

WK: Waikato

WN: Wellington

Neut Neutralisation test
Seq PCR sequencing

NPA Nasopharyngeal aspirate

NOTE: During April to September 2013, sentinel as well as hospital surveillance for influenza is conducted. For detailed information on consultation rates and viral isolations, please refer to "Influenza Weekly Update" report which can be viewed at http://www.surv.esr.cri.nz/virology/influenza_weekly_update.php. The Virology Weekly reporting only records numbers of influenza viral isolations from sentinel and hospital surveillance. This report is also available at http://www.surv.esr.cri.nz/virology/virology_weekly_report.php.

Hand, foot and mouth outbreak in Auckland and other parts of the country:

Sequence analysis performed in Auckland Labplus and ESR has identified Coxsackie virus A6 (CVA6) as the predominant enterovirus associated with this current outbreak of hand, foot and mouth disease that started since March to present. Mostly children less than 3 years and few adults had been infected.

This is the first recorded hand-foot-mouth disease (HFMD) outbreak associated with Coxsackie A6 (CA6) in NZ. CA6 is relatively infrequent serotype to be detected in NZ. ESR's historical record showed detection of 21 CA6 viruses during 1984-2012: 2000 (2), 2002 (2), 2004 (1), 2005 (3), 2006 (3), 2010 (2), 2011 (7), 2012 (1). CA6 associated HFMD has been identified in Finland, China, USA, Singapore and Japan in recent years but severe form of CA6 associated HFMD were not as common as EV 71 associated HFMD.

Data provided by Auckland labs (Labplus -Virology and Middlemore Hospital - Microbiology), Waikato Virology lab, Canterbury Health-Virology lab and Wellington labs (Wellington Hospital- Microbiology Lab and ESR).

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