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VIROLOGY WEEKLY REPORT

2011/44 15 November 2011

A summary of laboratory-diagnosed viral infections of interest for the week of 31/10/2011 - 06/11/2011

PRIMARY DIAGNOSTIC REPORTS ON VIRAL INFECTIONS REPORTED THIS WEEK

	Regions reporting Virus Identification				TOTAL
	Auckland	Waikato	Wellington	Christchurch	
Influenza A	5				5
Influenza A H3N2			4		4
Influenza B					
Metapneumovirus	5	3		1	9
Mycoplasma Pneumoniae		1		3	4
Parainfluenza 3	1	1			2
Parvovirus				4	4
Respiratory Syncytial Virus (RSV)	3	1	1	1	6
Rhinovirus				5	5
Rotavirus	7	7	1	6	21
Varicella Zoster Virus (VZV)	4	2		6	12
Adenovirus	4	1	2	3	10
Enterovirus	7	2	18	4	31
Measles	5	3		2	10
Mumps				1	1

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 1	Seq	SA	NPA	12.10.2011	9 M/F	Bronchiolitis
Adenovirus	Type 1	Neut	CA	Right Eye Swab	14.10.2011	30Y/F	Bilateral conjunctivitis
Adenovirus	Type 2	Seq	WN	Nasal	04.10.2011	5 M/F	cough
Adenovirus	Type 2	Seq	CB	NPS	09.10.2011	7 M/M	
Adenovirus	Type 2	Seq	SA	NPA	18.10.2011	5 M/M	Pneumonia
Adenovirus	Type 6	Seq	SA	NPA	16.10.2011	2 Y/F	Pneumonia
Adenovirus	Type 14	Seq	SA	NPA	17.10.2011	5 Y/M	LRTI
Enterovirus	Coxsackievirus Group A type 6	Seq	CB	Swab	29.8.2011	3 Y/M	
Enterovirus	Coxsackievirus Group A type 6	Seq	WN	CSF	24.9.2011	11 Y/F	
Enterovirus	Coxsackievirus Group A type 6	Seq	SA	NPA	12.8.2011	15 M/F	Febrile, convulsion
Enterovirus	Coxsackievirus Group A type 6	Seq	CB	Hand swab	08.8.2011	16 M/M	
Enterovirus	Coxsackievirus Group A type 6	Seq	WN	Foot swab	16.9.2011	5 Y/M	
Enterovirus	Coxsackievirus Group A type 21	Seq	WK	NPS	31.8.2011	7 M/F	Respiratory illness
Enterovirus	Coxsackievirus Group B type 2	Seq	WK	NPA	20.9.2011	1 M/M	
Enterovirus	Coxsackievirus Group B type 2	Seq	SA	NPA	10.10.2011	10 M/F	
Enterovirus	Coxsackievirus Group B type 4	Seq	SA	NPA	17.10.2011	24 D/M	
Enterovirus	Coxsackievirus Group B type 5	Seq	WK	Faeces	27.9.2011	10 M/F	
Enterovirus	Echovirus type 6	Seq	SA	NPA	18.08.2011	10M/F	
Enterovirus	Echovirus type 18	Seq	CB	Rectal	28.9.2011	1 M/F	
Enterovirus	Echovirus type 18	Seq	WN	CSF	05.10.2011	20 Y/F	Meningitis
Enterovirus	Enterovirus type 109*	Seq	SA	NPA	31.08.2011	13 M/M	Meningitis
Measles		PCR	CA	Throat Swab	02.11.2011	11M/M	
Measles		IgM	RO	Serum	16.09.2011	1Y/M	Rash
Measles		PCR	BE	NPS, Throat swab	28.10.2011	14Y/M	Fever, sore eyes, measles contact
Measles		PCR	BE	Throat	01.11.2011	18Y/F	Rash
Measles		PCR	TK	Throat	28.10.2011	7M/M	Contact with confirmed measles case
Measles		PCR	OT	Throat / NPS	29.10.2011	39Y/F	
Measles		PCR	CA	Swab	28.10.2011	22Y/F	Fever, sore throat
Measles		PCR	CA	Swab	28.10.2011	7M/F	
Measles		PCR	CA	Throat Swab	02.11.2011	25Y/F	Rash, Koplik spots, fever
Measles		PCR	CA	Swab	28.10.2011	12Y/M	
Mumps		IgM	NM	Serum	27.10.2011	46 Y/F	

BE: Eastern Bay of Plenty CA: Central Auckland CB: Canterbury NM: Nelson Marlborough OT: Otago
RO: Rotorua SA: South Auckland TK: Taranaki WK: Waikato WN: Wellington

*This is the first time that human enterovirus 109 has been identified in New Zealand. This virus was isolated from a nasopharyngeal aspirate from a one year old male child admitted at Middlemore Hospital with wheezing and bronchiolitis. The sequencing result revealed 91.44% homology to an enterovirus 109 reference strain (accession number: GQ865517.1). Enterovirus 109 was first isolated from a three year old female patient in Nicaragua in 2008. Since then it has been identified a further four times in Nicaragua and once in Congo. Patients presented with symptoms including fever, sore throat, cough headache, coryza, vomiting, lymphadenopathy and abdominal pain.

Neut	Neutralisation test	PCR	Polymerase Chain Reaction
NPA	Nasopharyngeal Aspirate	NPS	Nasopharyngeal Swab
IgM	Positive IgM ELISA	CSF	Cerebrospinal Fluid
Seq	PCR sequencing		

Thank you to all who have participated in this year's Influenza Surveillance network. Please note that the Influenza Surveillance is now finished. Could all participating practices please send their empty ESR Biobottles, unused courier tickets, and out of date VTM back to ESR by the end of November.

Data provided by Virology Laboratories of Auckland, Waikato, Christchurch Hospitals, Microbiology Laboratory of Wellington Hospital and Middlemore hospital, and ESR.

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