

VIROLOGY WEEKLY REPORT

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A Summary of Laboratory-diagnosed viral infections of interest for the week of 21/12/2015 - 27/12/2015

PRIMARY DIAGNOSIS REPORTS ON VIRAL INFECTIONS REPORTED THIS WEEK

	Laboratories reporting virus identification						
	LabPlus	Middlemore	Waikato	ESR	Christchurch	Dunedin	TOTAL
Influenza B	2						2
Bocavirus					1		1
Metapneumovirus	1	1		1			3
Mycoplasma pneumoniae			1		2		3
Parainfluenza 3	1	1		2	1		5
Picornavirus		11				1	12
Rhinovirus	10			2	19		31
Rotavirus	2		1		5		8
Varicella Zoster Virus (VZV)	22	1	3		11	1	38
Adenovirus	8	7	1	19	2	1	38
Enterovirus	2	5		1			8
Mumps	1						1

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

Virus	Type / Subtype	ID Method	DHB	Specimen Type/ Site	Date Specimen Taken	Age / Sex	Clinical Data
Adenovirus	Type 1	Seq	Wairarapa	Throat	02/12/2015	3Y/M	
Adenovirus	Type 2	Seq	Taranaki	NPS	02/12/2015	1Y/M	
Adenovirus	Type 3	Seq	Waikato	Eye	05/12/2015	2Y/F	
Adenovirus	Type 3	Seq	Waikato	Eye	05/12/2015	2Y/F	
Adenovirus	Type 3	Seq	Waitemata	Nasal	19/11/2015	23Y/M	
Adenovirus	Type 4	Seq	Canterbury	Eye	25/11/2015	69Y/F	Conjunctivitis
Adenovirus	Type 7	Seq	Canterbury	Nasal	11/12/2015	17Y/M	
Adenovirus	Type 7	Seq	Canterbury	NPS	11/12/2015	2Y/F	
Adenovirus	Type 7	Seq	Canterbury	NPS	12/12/2015	2Y/M	
Adenovirus	Type 7	Seq	Canterbury	Swab	11/12/2015	1Y/F	
Adenovirus	Type 7	Seq	Counties Manukau	Eye	24/11/2015	9Y/F	
Adenovirus	Type 7	Seq	Counties Manukau	Eye	01/12/2015	1Y/F	
Adenovirus	Type 7	Seq	Counties Manukau	NPA	27/11/2015	4M/F	
Adenovirus	Type 7	Seq	Counties Manukau	NPS	23/11/2015	19Y/F	
Adenovirus	Type 7	Seq	MidCentral	NPS	04/12/2015	49Y/M	
Adenovirus	Type 7	Seq	MidCentral	Swab	28/11/2015	39Y/M	
Adenovirus	Type 7	Seq	MidCentral	Throat	01/12/2015	6Y/F	Febrile, peritonitis
Adenovirus	Type 7	Seq	Southern	Eye	02/12/2015	30Y/F	Conjunctivitis
Adenovirus	Type 7	Seq	Southern	Eye	06/12/2015	25Y/M	Acute conjunctivitis
Adenovirus	Type 7	Seq	Tairāwhiti	Nasal	04/12/2015	1Y/M	
Adenovirus	Type 7	Seq	Taranaki	NPA	30/11/2015	1Y/M	
Adenovirus	Type 7	Seq	Taranaki	NPA	09/12/2015	1Y/F	
Adenovirus	Type 7	Seq	Waikato	Eye	02/12/2015	9M/M	Conjunctivitis
Adenovirus	Type 21	Seq	Counties Manukau	NPA	25/11/2015	31Y/M	
Adenovirus	Type 37	Seq	Canterbury	Eye	30/11/2015	56Y/M	Conjunctivitis
Adenovirus	Type 55*	Seq	Counties Manukau	Urine	24/11/2015	35Y/F	
Mumps		IgM	Auckland	Swab	21/12/2015	7Y/M	

NPA Nasopharyngeal Aspirate
IgM IgM ELISA

NPS Nasopharyngeal Swab
Seq PCR sequencing

*This is the first time that Adenovirus type 55 had been identified in New Zealand. Adenovirus type 55 (HAdV-B55) represents a re-emerging human pathogen. Bioinformatics analysis revealed that HAdV-B55 have evolved from homologous recombination between human adenovirus type 14 (HAdV-B14) and type 11 (HAdV-B11). HAdV-B55 has been associated with both mild and severe clinical disease, presenting with high fever and respiratory symptoms such as cough, myalgia and sore throat. HAdV-B55 has been reported to cause outbreaks of acute respiratory diseases among military trainees and in school populations around the world. These outbreaks usually spread quickly but are only associated with occasional mortality. HAdV-55 may cause severe ARDS in immunocompetent young men. Persistent high fever, dyspnea and rapid progression to respiratory failure within 2 weeks, together with bilateral consolidations and infiltrates, are the most frequent clinical manifestations of HAdV-55-induced severe ARDS. However, the patient in NZ with HAdV-55 virus did not present any severe respiratory illness. The patient had no known overseas travel nor contact with overseas traveller.

Data provided by Virology Laboratories of Auckland LabPlus, Waikato and Christchurch Hospital, Microbiology Laboratory of Wellington, Middlemore, and Dunedin Hospital and ESR

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