

# VIROLOGY WEEKLY REPORT

ISSN: 1680 (Print)  
ISSN: 1179-903 (Online)

2015/40 16 October 2015

A Summary of Laboratory-diagnosed viral infections of interest for the week of 28/09/2015 - 04/10/2015

## PRIMARY DIAGNOSIS REPORTS ON VIRAL INFECTIONS REPORTED THIS WEEK

	Laboratories reporting virus identification								
	LabPlus	Middlemore	Waikato	Pathlab	ESR	Wellington	Christchurch	Dunedin	TOTAL
Influenza A	5				3	1			9
Influenza A H3N2	3		1		1		6	1	12
Influenza B	23	15	7	9	21	11	16	2	104
Bocavirus							5		5
Metapneumovirus	21	10	7		23		25	1	66
Mycoplasma pneumoniae			1			2	2		5
Parainfluenza 1	1				5				6
Parainfluenza 2	1	1					2		4
Parainfluenza 3	15	8			15	3	17	1	59
Parechovirus							1		1
Picornavirus		30						2	32
Respiratory Syncytial Virus (RSV)	11	2	1	5	36	4	5	3	67
Rhinovirus	26				39	3	24		53
Varicella Zoster Virus (VZV)	13		3			2	6	3	27
Adenovirus	15	21			29	1	3	1	70
Enterovirus	6	2			5				13

**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	Canterbury	NPS	08/09/2015	1Y/M	URTI
Adenovirus	Type 1	Seq	Counties Manukau	NPA	24/08/2015	1Y/M	
Adenovirus	Type 1	Seq	Taranaki	NPA	07/09/2015	2M/F	
Adenovirus	Type 2	Seq	Canterbury	NPS	11/08/2015	2Y/F	Viral Illness
Adenovirus	Type 2	Seq	Counties Manukau	NPA	01/09/2015	1Y/M	
Adenovirus	Type 2	Seq	Counties Manukau	NPA	04/09/2015	1Y/F	
Adenovirus	Type 4	Seq	Waikato	Eye	09/09/2015	32Y/F	Red eye
Adenovirus	Type 7	Seq	Canterbury	NPS	16/09/2015	20Y/M	
Adenovirus	Type 7	Seq	Canterbury	Swab	12/09/2015	1Y/F	Fever, URTI
Adenovirus	Type 7	Seq	Waikato	Eye	05/09/2015	1Y/M	
Adenovirus	Type 7	Seq	Waikato	Eye	09/09/2015	10M/F	Conjunctivitis
Adenovirus	Type 7	Seq	Counties Manukau	Eye	23/08/2015	1Y/M	
Adenovirus	Type 7	Seq	Counties Manukau	Eye	30/08/2015	5M/F	
Adenovirus	Type 7	Seq	Counties Manukau	Eye	31/08/2015	2Y/M	
Adenovirus	Type 7	Seq	Counties Manukau	Eye	10/09/2015	3Y/M	
Adenovirus	Type 7	Seq	Counties Manukau	Eye	14/09/2015	4Y/M	
Adenovirus	Type 7	Seq	Counties Manukau	Eye	15/09/2015	8M/F	
Adenovirus	Type 7	Seq	Counties Manukau	Eye	16/09/2015	5Y/M	
Adenovirus	Type 7	Seq	Counties Manukau	Eye	18/09/2015	6M/M	
Adenovirus	Type 7	Seq	Counties Manukau	Nasal	25/08/2015	16Y/F	
Adenovirus	Type 7	Seq	Counties Manukau	NPA	12/08/2015	3M/M	
Adenovirus	Type 7	Seq	Counties Manukau	NPA	24/08/2015	3Y/M	
Adenovirus	Type 7	Seq	Counties Manukau	NPA	24/08/2015	4M/M	
Adenovirus	Type 7	Seq	Counties Manukau	NPA	31/08/2015	2M/F	
Adenovirus	Type 7	Seq	Counties Manukau	NPA	04/09/2015	6M/M	
Adenovirus	Type 7	Seq	Counties Manukau	NPA	05/09/2015	10M/M	
Adenovirus	Type 7	Seq	Counties Manukau	NPS	25/08/2015	46Y/F	
Adenovirus	Type 7	Seq	Counties Manukau	NPS	01/09/2015	25Y/F	
Adenovirus	Type 7	Seq	Southern	NPA	15/09/2015	3Y/M	
Adenovirus	Type 7	Seq	Southern	NPA	20/09/2015	6Y/F	
Adenovirus	Type 7	Seq	Taranaki	NPA	06/09/2015	2Y/M	
Adenovirus	Type 7	Seq	Taranaki	VTM	23/09/2015	59Y/F	
Adenovirus	Type 19	Seq	Waikato	Eye	09/09/2015	28Y/M	Acute bilateral conjunctivitis

Adenovirus	Type 42	Seq	Counties Manukau	Sputum	31/08/2015	25Y/M	
Enterovirus	Coxsackievirus Group B type 5	Seq	Counties Manukau	NPA	20/06/2015	1M/M	

NPA Nasopharyngeal Aspirate  
Seq PCR sequencing

NPS Nasopharyngeal Swab

NOTE: During April to September 2015, 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](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](http://www.surv.esr.cri.nz/virology/virology_weekly_report.php).

During January to October 2015, 162 Adenovirus type 7 (ADV7) have been reported. This was much higher than the 4 ADV7 reported during the same period in 2014. Of 162 ADV7 reported, 80 (49%) were reported during the last 6 weeks. Most of the ADV7 cases were children: < 1 yr = 54 (33%), 1-4 = 53 (33%), 5-19 = 17 (10%) and ≥ 20 = 38 (24%). Among those with known clinical data, majority presented with respiratory symptoms; 39 were SARI cases, 2 admitted to ICU and 1 died. Majority of these cases came from South Auckland (120), Waikato (27), Canterbury (11) and Dunedin (4).

Worldwide, this pathogen has sometimes been associated with severe morbidity and mortality, especially with children. Adenoviruses 7 can cause acute pharyngoconjunctival fever in children. Symptoms, which appear suddenly and usually disappear in less than a week, include inflammation of the lining of the eyelid (conjunctivitis) fever, sore throat (pharyngitis), runny nose. In adults, the most frequently reported adenovirus infection is acute respiratory disease and had been identified in outbreaks with military recruits. Influenza-like symptoms including fever, sore throat, runny nose, and cough are almost always present; weakness, chills, headache, and swollen lymph glands in the neck also may occur. The symptoms typically last three to five days.

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

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