

Preliminary summary on oseltamivir-resistant H1N1virus: Canada

Reporting date: 8 May 2008

Over the 2007-2008 influenza season in the northern hemisphere, a total of 476 H1N1 viruses were tested for oseltamivir resistance (H274Y) in Canada, of which 123 viruses (26%) were found to be resistant.

Table 1

Month of sampling	Sept 07	Oct 07	Nov 07	Dec 07	Jan 08	Feb 08	Mar 08	Apr 08
No. of H1N1 isolates tested	1	1	18	114	153	126	56	7
No. (%) of viruses resistant to oseltamivir	0 (0%)	0 (0%)	0 (0%)	16 (14%)	26 (17%)	37 (29%)	38 (68%)	6 (86%)

Influenza A(H3N2) viruses and B viruses have been also tested for oseltamivir susceptibility (Table 2 by Canadian province).

NML OSELTAMIVIR SUSCEPTIBILITY ASSAY COMPLETED ON INFLUENZA ISOLATES IN CANADA

FROM SEP. 1, 2007 TO MAY 7, 2008

INFLUENZA	PROVINCE (R: Resistant, S: Susceptible)																											
	NFLD		PEI		NS		NB		QUE		ONT		MAN		SASK		ALTA		BC		YT		NT		NU		TOTAL	
	R	S	R	S	R	S	R	S	R	S	R	S	R	S	R	S	R	S	R	S	R	S	R	S	R	S	R	S
<u>Type A (H1N1)</u>	9	19	0	0	1	4	1	5	26	49	57	130	4	4	4	8	3	17	18	109	0	1	0	2	0	5	123	353
<u>Type A (H3N2)</u>	0	0	0	0	0	1	0	2	0	22	0	119	0	0	0	26	0	7	0	30	0	0	0	0	0	0	0	207
<u>Type B</u>	0	7	0	3	0	8	0	24	0	60	0	217	0	2	0	41	0	79	0	123	0	2	0	2	0	6	0	574
TOTAL	9	26	0	3	1	13	1	31	26	131	57	466	4	6	4	75	3	103	18	262	0	3	0	4	0	11	123	1,134