



## REPORTABLE DISEASE SUMMARY – Monthly Report – January 2012

### Data current as of January 9, 2012

This document is intended to capture current reportable disease information for York Region and to compare it to historical data on a monthly basis.

#### Report Description

**Section A: York Region ... at a glance.** Table 1 presents the counts and rates of reportable diseases in York Region by month for the current year. As well, it provides the 'Year-to-Month' (YTM) counts and disease rates for the previous two years as a historical comparison.

**Section B: Infectious Disease Activity.** This section provides a brief summary of events related to infectious disease activity at several levels of geography that have the potential of influencing disease activity within York Region.

The statistics presented in this report represent the most current confirmed disease counts in York Region and they supersede all previous monthly report statistics. Please note that numbers and rates calculated for certain reportable diseases may differ significantly from previous York Region summary reports. This is a result of data cleaning efforts to validate disease counts and, unless otherwise stated, do not reflect an actual increase in disease incidence within the population during this time period. Statistical significance of disease trends were examined using WINPEPI Version 1.31.<sup>1</sup>

**Section A: York Region...at a glance**

**Table 1: Reportable Diseases in York Region, 2011**

DISEASE	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2011 YTD	2011 YTD Rate/100,000	2010 YTM	2010 YTM Rate/100,000	% Diff. in 2011	2010 Total	2010 Annual Rate/100,000	2009 YTM	2009 YTM Rate/100,000	% Diff. in 2011	2009 Total	2009 Annual Rate/100,000
AIDS/HIV^	1	1	4	3	2	4	1	2	1				19	1.83	14	1.35	36	24	2.31	10	0.99	85	13	1.28
Amebiasis	1	2	3	1	1	1	2	4	1	2	1		19	1.83	14	1.35	36	15	1.44	25	2.47	-26	26	2.56
Anthrax	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Botulism	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Brucellosis	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Campylobacter enteritis	15	17	23	20	26	38	48	49	37	33	27		333	32.00	271	26.04	23	295	28.35	282	27.81	15	299	29.49
Chancroid	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Chlamydia	153	146	171	163	152	169	132	161	150	158	144		1699	163.28	1596	153.38	6	1740	167.22	1379	135.99	20	1485	146.45
Cholera	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Cryptosporidiosis	1	-	4	1	-	1	2	4	1	1	1		16	1.54	22	2.11	-27	23	2.21	22	2.17	-29	23	2.27
Cyclosporiasis	-	-	-	-	1	4	1	-	-	-	-		6	0.58	16	1.54	-63	16	1.54	7	0.69	-16	7	0.69
Cytomegalovirus (CMV), congenital	-	-	-	-	-	-	-	-	-	-	-		-	-	1	0.10	-	2	0.19	1	0.10	-	1	0.10
Diphtheria	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Encephalitis†	2	1	2	1	4	2	3	6	5	2	1		29	2.79	25	2.40	16	27	2.59	26	2.56	9	28	2.76
Food Poisoning	-	4	1	1	2	1	1	1	-	1	-		12	1.15	8	0.77	50	8	0.77	4	0.39	192	6	0.59
Giardia	12	8	6	7	4	7	6	7	3	3	3		66	6.34	69	6.63	-4	77	7.40	68	6.71	-5	71	7.00
Gonorrhea	13	15	10	15	6	10	15	15	22	15	15		151	14.51	113	10.86	34	130	12.49	95	9.37	55	106	10.45
Haemophilus influenzae b disease, invasive	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Hantavirus pulmonary syndrome	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Hemorrhagic fevers	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Hepatitis A	2	1	-	-	-	-	-	1	2	-	-		6	0.58	11	1.06	-45	11	1.06	5	0.49	17	5	0.49
Hepatitis B (acute)	-	-	-	-	-	-	-	-	1	-	1		2	0.19	6	0.58	-67	8	0.77	6	0.59	-68	7	0.69
Hepatitis B ^ (chronic)	39	35	35	31	17	33	16	20	27				253	24.31	291	27.97	-13	398	38.25	273	26.92	-10	372	36.69
Hepatitis C	16	11	15	14	17	16	10	13	13	13	10		148	14.22	186	17.88	-20	193	18.55	221	21.79	-35	227	22.39
Hepatitis D	-	-	-	-	-	-	-	1	-	-	-		1	0.10	-	-	-	-	-	1	0.10	-3	1	0.10
Herpes, neonatal	-	-	1	-	-	-	-	-	-	-	-		1	0.10	-	-	-	1	0.10	-	-	-	-	-
Influenza†	92	34	18	8	1	-	-	-	-	-	-		153	14.70	29	2.79	428	150	14.42	1092	107.69	-86	1099	108.38
Lassa Fever	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Legionellosis	-	-	-	-	-	1	1	-	2	-	-		4	0.38	5	0.48	-20	5	0.48	3	0.30	30	3	0.30
Leprosy	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Listeriosis	2	-	-	-	-	-	1	1	-	-	-		4	0.38	7	0.67	-43	7	0.67	5	0.49	-22	5	0.49
Lyme Disease	-	-	-	-	-	1	2	-	-	-	-		3	0.29	1	0.10	200	1	0.10	3	0.30	-3	3	0.30
Malaria	-	-	-	2	-	4	2	1	1	-	-		10	0.96	14	1.35	-29	15	1.44	12	1.18	-19	12	1.18
Measles	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Meningococcal disease, invasive	1	-	-	-	-	-	-	1	-	-	-		2	0.19	1	0.10	100	1	0.10	3	0.30	-35	3	0.30
Mumps	-	-	-	-	-	-	1	-	1	-	1		3	0.29	1	0.10	200	1	0.10	8	0.79	-63	11	1.08
Ophthalmia neonatorum	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Paratyphoid Fever	-	-	-	1	-	1	-	-	-	-	-		2	0.19	6	0.58	-67	7	0.67	2	0.20	-3	3	0.30
Pertussis	-	1	2	-	3	-	1	-	1	3	-		11	1.06	2	0.19	450	2	0.19	19	1.87	-44	20	1.97
Plague	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-

DISEASE	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2011 YTD	2011 YTD Rate/ 100,000	2010 YTM	2010 YTM Rate/ 100,000	% Diff. in 2011	2010 Total	2010 Annual Rate/ 100,000	2009 YTM	2009 YTM Rate/ 100,000	% Diff. in 2011	2009 Total	2009 Annual Rate/ 100,000
Poliomyelitis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Psittacosis/ Ornithosis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Q Fever	-	-	-	-	-	-	-	-	1	-	-	-	1	0.10	1	0.10	0	1	0.10	-	-	-	-	-
Rabies, human	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rubella	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.10	-	1	0.10
Rubella, congenital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Salmonellosis	17	15	17	28	17	17	22	39	16	14	8		210	20.18	244	23.45	-14	260	24.99	213	21.01	-4	236	23.27
SARS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shigellosis	-	1	3	-	15	2	-	3	1	-	1	-	26	2.50	15	1.44	73	15	1.44	19	1.87	33	19	1.87
Smallpox	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Strep pneumoniae, invasive	6	8	4	2	5	4	-	3	2	1	4	-	39	3.75	54	5.19	-28	57	5.48	46	4.54	-17	56	5.52
Strep, Group A invasive	4	6	10	3	3	3	1	-	-	2	2	-	34	3.27	23	2.21	48	25	2.40	22	2.17	51	25	2.47
Strep, Group B neonatal	-	-	-	-	2	-	2	-	-	1	-	-	5	0.48	2	0.19	150	2	0.19	2	0.20	144	2	0.20
Syphilis^	6	1	4	5	9	3	3	6	4	-	-	-	41	3.94	60	5.77	-32	71	6.82	58	5.72	-31	80	7.89
Tetanus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.10	-	1	0.10	-	-	-	-	-
Transmissible Spongiform Encephalopathy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	0.10
Trichinosis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
Tuberculosis‡	7	6	9	2	3	0	12	1	6	5	3	-	54	5.19	53	5.09	2	62	5.96	56	5.52	-6	60	5.92
Tularemia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
Typhoid Fever	1	1	-	1	-	1	-	-	-	1	1	-	6	0.58	5	0.48	20	5	0.48	5	0.49	17	5	0.49
Verotoxin-producing E.coli (VTEC)	-	1	1	-	1	1	1	-	4	-	3	-	12	1.15	8	0.77	50	8	0.77	8	0.79	46	8	0.79
West Nile Virus Illness	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow Fever	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yersiniosis	5	3	10	3	4	2	5	7	3	-	1	-	43	4.13	40	3.84	8	43	4.13	40	3.94	5	41	4.04
<b>TOTAL</b>	<b>396</b>	<b>318</b>	<b>353</b>	<b>312</b>	<b>295</b>	<b>326</b>	<b>291</b>	<b>347</b>	<b>305</b>	<b>255</b>	<b>228</b>	<b>0</b>	<b>3424</b>	<b>329.06</b>	<b>3215</b>	<b>308.97</b>	<b>7</b>	<b>3707</b>	<b>356.26</b>	<b>4043</b>	<b>398.71</b>	<b>-17</b>	<b>4370</b>	<b>430.96</b>

Data Source: integrated Public Health Information System (iPHIS), York Region Community and Health Services Department, as of January 9, 2012. Rates were calculated using population estimates from Statistics Canada CANSIM Table 051-0052 - Estimates of population by census division, sex and age group. [York Region Population Statistics: 2011 & 2010=1,040,539; 2009=1,014,024].

Notes: YTD refers to 'Year-To-Date'; YTM refers to 'Year-To-Month'; % Difference calculated using formula  $\frac{([2011 \text{ rate}] - [2010 \text{ or } 2009 \text{ rate}])}{([2010 \text{ or } 2009 \text{ rate}])} * 100\%$

† Encephalitis data includes the following iPHIS fields: Encephalitis (primary viral), Encephalitis/Meningitis, Meningitis (bacterial), Meningitis (viral).

^ Data for chronic hepatitis B, HIV/AIDS, and syphilis cases are reported up to September 30, 2011 due to the increased investigation period required to follow-up these cases.

‡ As of April 2011, these tuberculosis statistics are categorized according to the "diagnosis date", as opposed to the "accurate episode date" used for all other reportable diseases. These tuberculosis statistics represent confirmed cases only. These statistics do not reflect the volume of tuberculosis investigations carried out by York Region Community and Health Services Department. To facilitate YTM comparisons, TB case counts and rates for 2009 and 2010 are also based on diagnosis dates and differ from previous reports.

¶ For 2009, the number of confirmed influenza cases includes influenza A cases that were not sub-typed, and classified in iPHIS as probable and suspect cases as required by the Ministry of Health and Long-Term Care. Due to ongoing investigations, some disease counts for the most recent months of reporting may change due to re-classification of cases.

## Section B: Infectious Disease Activity

### 2011-2012 Influenza Season Update

#### Around Ontario...

During the week of December 25 to December 31, 2011 (surveillance week 52), 15 new cases of influenza were reported in Ontario (Halton Region, Hamilton, Niagara Region, Ottawa, Peel Region, Toronto and Wellington-Dufferin-Guelph health units).<sup>2</sup> As of December 31, there have been a total of 47 influenza cases reported in Ontario for the 2011-2012 influenza season. Compared to the same period in the 2010-2011 season fewer influenza cases and outbreaks have been reported this season. Approximately 60% of the cases reported to date were subtyped as influenza A (H1N1) pdm09<sup>i</sup> and influenza B, with each subtype accounting for 14 cases. In recent weeks most influenza A cases have been identified as (H1N1) pdm09, whereas earlier in the season most were identified as H3N2. Since September 1, 2011 there have been two confirmed cases of influenza in York Region.

#### Around Canada...

During the week of December 25 to December 31, 2011 (surveillance week 52), 73 new cases of influenza were reported across Canada.<sup>3</sup> There was three outbreaks of influenza in a long-term care facilities during this week. As of December 31, there have been a total of 324 influenza cases reported in Canada for the 2011-2012 influenza season. The proportion of influenza virus detections by type/subtype this season to date is as follows: 84.6% influenza A (76% - A(H3); 6% - A(H1N1)pdm09; 18% - unsubtyped) and 15.4% influenza B.

#### Around the United States ...

During the week of December 25 to December 31, 2011 (surveillance week 52) 3,310 specimens were submitted of which 95 (2.9%) tested positive for influenza.<sup>4</sup> The proportion of influenza virus detections by type/subtype this surveillance week is as follows: 89.5% influenza A (47.1% - A(H3); 0% - A(2009 H1N1); 52.9% - unsubtyped) and 10.5% influenza B. The Centers for Disease Control and Prevention (CDC) have reported 12 human infections with influenza A (H3N2)v<sup>ii</sup> viruses August 17 to December 23, 2011.<sup>5</sup> The cases are from five different states (Indiana, Iowa, Maine, Pennsylvania, and West Virginia) and 11 are children. Six of the cases had no recent exposure to swine.

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<sup>i</sup> On October 18, 2011, the World Health Organization announced that the standardized nomenclature for the pandemic influenza A (H1N1) 2009 virus would be influenza A (H1N1)pdm09.

<sup>ii</sup> On December 23, 2011, the World Health Organization announced that the standardized nomenclature for swine-origin influenza viruses would be A(H3N2)v where 'v' stands for variant.

## Contact Information

Any questions, suggestions, or requests for further information pertaining to this monthly report may be directed to:

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## References

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