

Queensland Health Statewide Weekly Influenza Surveillance Report

Reporting Period: 01st January 2012 –14th October 2012

Total Notifications	16304
Influenza A*	12159
A(H1N1)pdm09 [†]	35
H3N2	1867
Un-subtyped	10257
Influenza B	4145
Un-typed	0
Number of Confirmed Influenza Hospitalisations	1452
(Queensland Public Hospitals Only)	

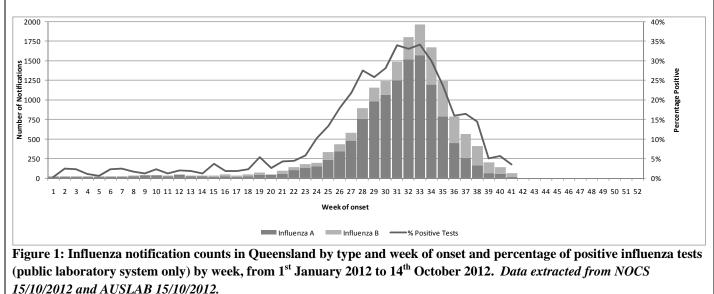
*Subtype counts/proportions may be subject to change

†World Health Organisation (WHO) standard abbreviation for the influenza strain associated with the 2009 pandemic, also known as A/California/7/2009 (H1N1)

Influenza vaccine virus composition	A (H1N1): an A/California/7/2009 (H1N1) - like strain, 15 μg HA per dose
for Australia 2012	A (H3N2): an A/Perth/16/2009 (H3N2) - like strain, 15 µg HA per dose
http://www.influenzacentre.org/centre_vaccines.htm	B: a B/Brisbane/60/2008 - like strain, 15 μ g HA per dose

Influenza Notifications

Year to date (YTD) there have been 16304 notifications of influenza in Queensland. Subtype is recorded for 1902 of the 12159 notifications of influenza A, comprising 35 A(H1N1)pdm09 and 1867 H3N2. Twenty-five percent (4145) of notifications have been influenza B.



*Un-typed notifications have been excluded.

Figure 1 shows Queensland notifications for influenza A and B by week of onset. An increasing trend is apparent from around week 19 (week beginning Monday 7th May) with a peak in week 33 (week beginning Monday 13th August).

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Data presented in this report were the most accurate available at the time of extraction. Surveillance datasets are subject to change. Please direct any enquiries to EPI@health.qld.gov.au

Overall, influenza B has accounted for approximately 25% of notifications. However, the weekly percentage of notifications due to influenza B has been increasing since week 35; with 73% (49/67) in the most recent week (41). Review of data by region (Figure 2) indicates a sustained downward trend in notification numbers in all areas of the state since week 33. The season profile in the tropical region shows a less well defined peak than the southern or central regions. Weekly counts are now consistent with preseason levels.

Figure 1 also shows the percentage of positive influenza tests, performed in the public laboratory sector in Queensland, by week of testing for the YTD 2012. The number of positive tests can be influenced by many factors including the amount of testing done. However, the percentage of positive tests may be an indicator of disease frequency in the population and would be expected to change as the influenza season progresses. The increasing trend shown in Figure 1, from around week 23 (week beginning 4th June), is consistent with an evolving influenza season. The percentage positive has decreased from a peak of 34% during week 33 to 3% during the most recent week (41). The laboratory test data presented in Figure 1 should be interpreted with caution as they may not be representative of influenza testing across all laboratory sectors. In addition, there may be some inaccuracies associated with the extraction of data from the laboratory information system (AUSLAB).

The recent week's data may be incomplete for both notifications and AUSLAB and will usually be an underestimate in data presented by date of disease onset.

The 2012 YTD notification count (16304) is 2.2 times the five year mean (7571) for the same period. However, it is important to note that the profile of influenza notifications is not the same each year, especially with regard to the start and peak of the season. Comparison of YTD data, or counts during a particular week, across years may be misleading. In addition, there have been changes to diagnostic methods and test requesting practices in recent years, which may influence counts.

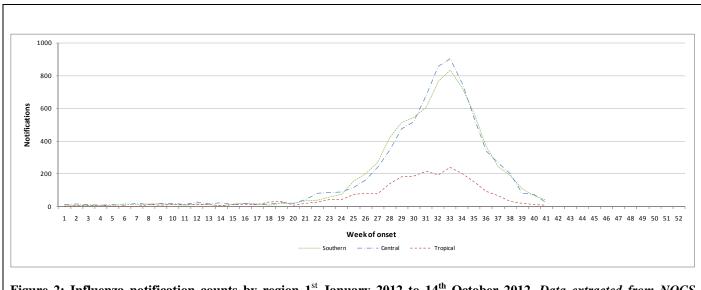
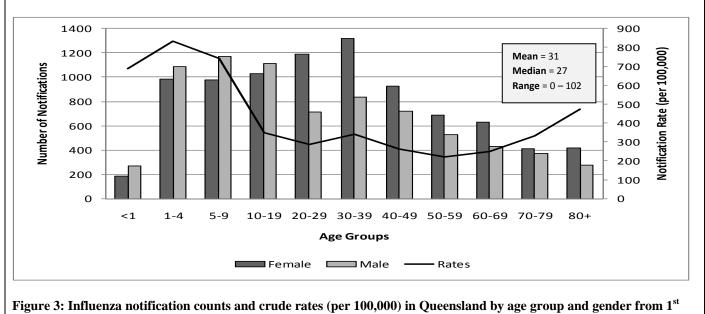


Figure 2: Influenza notification counts by region 1st January 2012 to 14th October 2012. *Data extracted from NOCS* 15/10/2012.

Figure 3 shows the 2012 YTD influenza notifications by age group and gender. The highest influenza notification rate has been in the 1-4 age group (833.6 per 100,000 population) and the lowest rate in the 50-59 age group (218.6 per 100,000 population). The median age was 27 years and the age range was <1 to 102 years. Overall, there were slightly more notifications in females (54%) than males (46%).

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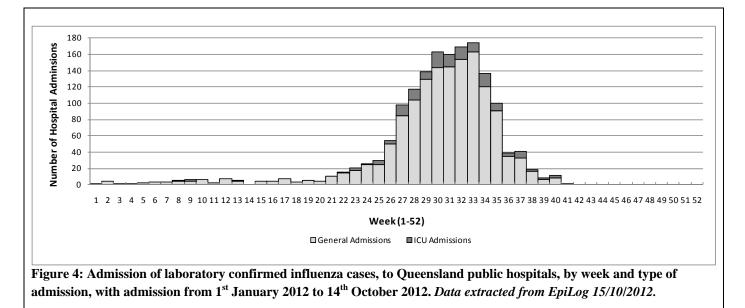
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January 2012 to 14th October 2012. Data extracted from NOCS 15/10/2012. (2010 Population Data were used for rates).

Influenza Hospitalisations

Figure 4 shows the number of laboratory confirmed influenza admissions to public hospitals in Queensland, by week and admission type, detected through the EpiLog¹ system. Admissions show a sustained downward trend beginning in week 34. Hospitalisations are considered a proxy measure of illness severity, with the most severely affected of all notified cases (Figure 1) requiring hospital care. YTD 2012 there have been 1452 admissions, including 157 to intensive care units (ICU). Weekly admission counts have now returned to preseason levels.



¹ EpiLog is a web based application developed by Queensland Health, which generates admission records for confirmed influenza cases through interfaces with the inpatient information and public laboratory databases. Records can also be generated manually.

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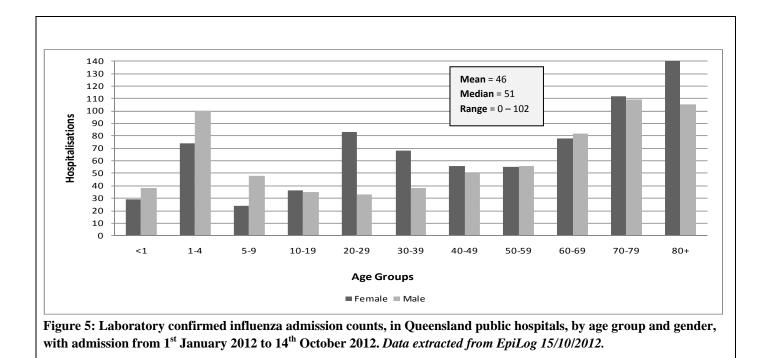
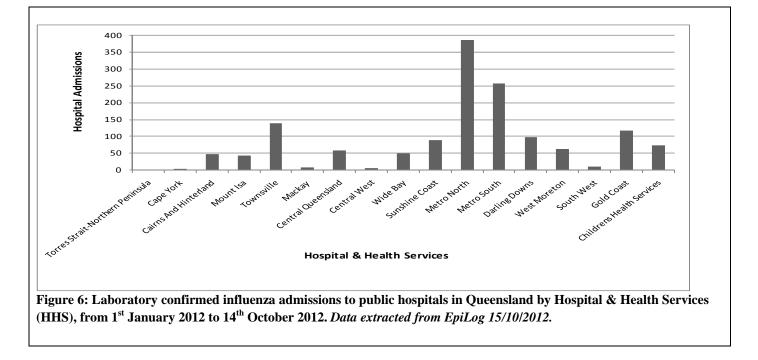


Figure 5 shows the age and gender distribution of the YTD confirmed influenza admissions to public hospitals, as detected by the EpiLog system. Overall, the highest number of hospitalisations (248) occurred in the 80+ year age group, with 42% male and 58% female. The median age of hospitalised cases was 51 years and the range was <1 to 102.

Figure 6 shows the geographical distribution of the 2012 YTD hospitalisations by Hospital & Health Services (HHS). The weekly notification counts by HHS, together with the YTD totals, are shown in Table 1.



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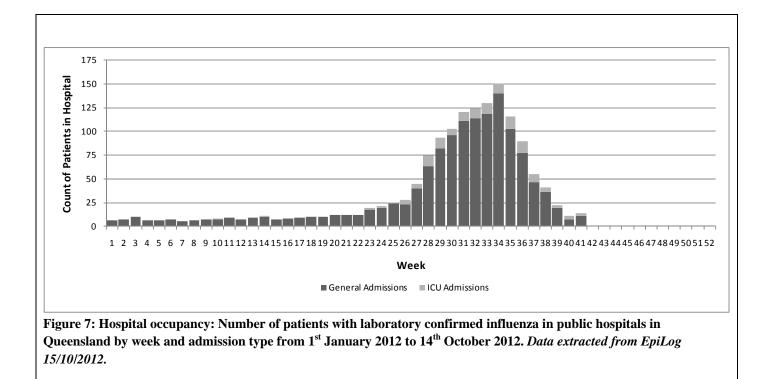


Figure 7 shows the number of inpatients in public hospitals, with laboratory confirmed influenza, during each week since 1st January 2012. The data are a function of admissions as well as lengths of stay. This is distinct from the data in Figure 4 which shows new admissions during each week. The occupancy has shown a sustained downward trend beginning in week 35, which is consistent with other data sources indicating the influenza activity is decreasing. Detailed analysis of length of stay has not been undertaken at this stage.

Australian Sentinel Practices Research Network (ASPREN)

ASPREN is a national syndromic surveillance program co-ordinated by the Discipline of General Practice at the University of Adelaide and The Royal Australian College of General Practitioners. One of the conditions under surveillance is influenza like illness (ILI).

General practitioners (GP) participating in the ASPREN program contribute data on the proportion of consultations which are ILI related. Currently there are 43 Queensland GPs registered with ASPREN, although weekly participation rate may vary. YTD 2012 GP participation has ranged from 30 - 63 % during the 2012 season. During the most recent week 21% of GP participated.

The number of ILI presentations per 1000 GP consultations has shown a sustained decreasing trend over the last five weeks. During the most recent week there were 6.0 ILI presentations per 1000 GP consultations.

Further information about ASPREN can be found at <u>http://www.racgp.org.au/aspren</u>.

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Table 1: Influenza notifications by week of onset and Hospital & Health Service (HHS) Queensland, 2012 (as on 14th October 2012). Data extracted from NOCS 15/10/2012.

												Week o															
Hospital & Health Service	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
TORRES STRAIT-NORTHERN PENINSULA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CAPE YORK	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	1	7	7	0	3	0	0	1	0	0	
CAIRNS AND HINTERLAND	1	1	1	4	0	1	1	2	2	5	2	2	2	0	3	4	3	5	7	1	6	7	8	6	10	11	
MOUNT ISA	0	0	0	0	1	0	2	1	0	0	0	0	0	0	0	0	1	1	7	1	3	8	8	4	12	13	
TOWNSVILLE	1	1	1	1	1	2	0	7	3	8	8	8	9	3	5	5	6	7	8	7	7	13	24	29	51	53	
MACKAY	1	2	1	1	1	0	0	2	1	0	2	1	1	1	0	2	0	7	1	1	2	0	1	4	3	3	
CENTRAL QUEENSLAND	0	3	0	2	0	0	1	1	4	0	3	2	0	0	1	0	1	0	0	2	3	2	2	3	0	5	
CENTRAL WEST	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
WIDEBAY	1	3	3	1	1	2	2	1	2	2	0	2	1	0	2	5	0	1	2	0	1	1	2	3	2	6	
SUNSHINE COAST	0	4	2	1	6	1	4	2	0	6	3	3	4	6	1	3	0	2	5	3	3	7	7	3	13	15	
METRO NORTH	10	4	3	6	7	5	9	6	12	10	6	19	9	17	6	11	7	9	12	14	31	69	71	75	96	131	
METRO SOUTH	2	4	6	6	2	5	4	8	7	5	4	8	8	3	12	9	6	4	8	8	13	13	27	33	57	100	
DARLING DOWNS	3	1	0	1	2	2	2	3	1	3	1	0	2	1	1	0	1	1	5	1	13	13	16	17	43	38	
WEST MORETON	0	1	0	0	0	1	0	0	0	0	1	1	1	0	0	3	2	1	1	0	1	4	4	3	9	13	
SOUTH WEST	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	1	2	0	4	11	8	
GOLD COAST	1	0	2	1	0	4	3	3	4	1	1	4	0	0	2	3	5	1	6	10	7	4	10	12	29	38	
Queensland (Total)	21	24	19	24	21	23	28	37	37	41	31	50	37	32	36	46	34	46	69	48	94	143	180	197	336	437	
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TORRES STRAIT-NORTHERN PENINSULA CAPE YORK	0	0	0		0	1	0	34 1 1 41	1		0	38 0	39 0	0		42	43	<u>44</u> - -	45 - -	46 - - -	47 - - -	48 - -	49 - - -	50 - - -	51	52	YID I
TORRES STRAIT-NORTHERN PENINSULA CAPE YORK CAIRNS AND HINTERLAND	0 0	0 3	0 0	0 1	0 2	1 0	0 3	1 1	1 2	0 1	0 4	38 0 0	39 0 2	0 0		42	43 - - -	44 - - -	45 - - -	46 - - -	47 - - -	48 - - -	49 - - -	50 - - -	51	52	
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TORRES STRAIT-NORTHERN PENINSULA CAPE YORK CAIRNS AND HINTERLAND MOUNT ISA TOWNSVILLE	0 0 10	0 3 21 1	0 0 22	0 1 40	0 2 42	1 0 41	0 3 36	1 1 41 25	1 2 26 7	0 1 25 3	0 4 18 0	38 0 0 8 1	39 0 2 4	0 0		42	43	44 - - - - -	45 - - - - -	46 - - - -	47 - - - -	48 - - - - -	49 - - - -	50 - - - - -	51	52 - - - -	
TORRES STRAIT-NORTHERN PENINSULA CAPE YORK CAIRNS AND HINTERLAND MOUNT ISA TOWNSVILLE MACKAY	0 0 10 11	0 3 21 1 99 16	0 0 22 3 142	0 1 40 5 122	0 2 42 13 136	1 0 41 54 83 16	0 3 36 47 122	1 41 25 100 32	1 26 7 90 24	0 1 25 3 48 16	0 4 18 0 37	38 0 0 8 1 17 6	39 0 2 4 0 13	0 0		42	43	44 - - - - -	45 - - - - -	46 - - - - -	47 - - - - -	48 - - - - -	49 - - - - -	<u>-</u> - - - - -	51	52	1
TORRES STRAIT-NORTHERN PENINSULA CAPE YORK CAIRNS AND HINTERLAND MOUNT ISA TOWNSVILLE MACKAY CENTRAL QUEENSLAND	0 0 10 11 52 4	0 3 21 1 99 16 16	0 0 22 3 142 15	0 1 40 5 122 15 44	0 2 42 13 136 22 93	1 0 41 54 83	0 36 47 122 31	1 41 25 100	1 26 7 90	0 1 25 3 48	0 4 18 0 37 6	38 0 0 8 1 17	39 0 2 4 0 13 2	0 0 3 0 5 4		42	43	44 - - - - - -	45 - - - - - -	46 - - - - - -	47 - - - - - -	48 - - - - - -	49 - - - - - - -	- - - - - - - - -	51	52	1
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TORRES STRAIT-NORTHERN PENINSULA CAPE YORK CAIRNS AND HINTERLAND MOUNT ISA TOW NSVILLE MACKAY CENTRAL QUEENSLAND CENTRAL WEST WIDE BAY SUNSHINE COAST	0 0 10 11 52 4 23 2 6 31	0 3 21 1 99 16 16 16 8 15 60	0 0 22 3 142 15 34 3 23 89	0 1 40 5 122 15 44 2 8 77	0 2 42 13 136 22 93 2 42 116	1 0 41 54 83 16 151 7 48 175	0 3 36 47 122 31 184 3 60 228	1 41 25 100 32 143 7 55 167	1 26 7 90 24 80 1 52 107	0 1 25 3 48 16 36 1 32 78	0 4 18 0 37 6 44 1 37 38	38 0 0 8 1 17 6 42 3 19 33	39 0 2 4 0 13 2 7 1 8 18	0 0 3 0 5 4 11 0 8 16		42	43	44 - - - - - - - - -	45 - - - - - - - - - - - -	46	47 - - - - - - - - - - -	48	49 - - - - - - - - - - -	50 - - - - - - - - - - - - - -	51	52	1
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TORRES STRAIT-NORTHERN PENINSULA CAPE YORK CAIRNS AND HINTERLAND MOUNT ISA TOWNSVILLE MACKAY CENTRAL QUEENSLAND CENTRAL WEST WIDE BAY SUNSHINE COAST METRO NORTH METRO SOUTH DARLING DOWNS WEST MORETON	$\begin{array}{c} 0 \\ 0 \\ 10 \\ 11 \\ 52 \\ 4 \\ 23 \\ 2 \\ 6 \\ 31 \\ 172 \\ 146 \\ 51 \\ 29 \end{array}$	0 3 21 1 99 16 16 16 8 5 60 242 234 64 38	0 0 22 3 142 15 34 3 23 89 318 324 58 61	0 1 40 5 122 15 44 2 8 77 365 312 97 46	0 2 42 13 136 22 93 2 42 116 413 311 95 92	1 0 41 54 83 16 151 7 48 175 468 382 163 75	0 3 36 47 122 31 184 3 60 228 425 371 231 72	1 41 25 100 32 143 7 55 167 379 296 233 72	1 2 26 7 90 24 80 1 52 107 291 257 169 42	0 1 25 3 48 16 36 1 32 78 187 187 112 16	0 4 18 0 37 6 44 1 37 38 143 108 74 25	38 0 0 8 1 17 6 42 3 19 33 94 94 48 21	39 0 2 4 0 13 2 7 1 8 18 44 44 27 7	0 0 3 0 5 4 11 0 8 16 35 34 11 6	0 0 2 0 5 0 4 0 6 5 9 17	42	43	44	45 - - - - - - - - - - - - - - - - - - -	46	47 - - - - - - - - - - - - - -	48 - - - - - - - - - - - - - - - -	49 - - - - - - - - - - - - - - - -	50 	51 	52 	
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TORRES STRAIT-NORTHERN PENINSULA CAPE YORK CAIRNS AND HINTERLAND MOUNT ISA TOWNSVILLE MACKAY CENTRAL QUEENSLAND CENTRAL WEST WIDE BAY SUNSHINE COAST METRO NORTH METRO SOUTH DARLING DOWNS WEST MORETON	$\begin{array}{c} 0 \\ 0 \\ 10 \\ 11 \\ 52 \\ 4 \\ 23 \\ 2 \\ 6 \\ 31 \\ 172 \\ 146 \\ 51 \\ 29 \end{array}$	0 3 21 1 99 16 16 16 8 5 60 242 234 64 38	0 0 22 3 142 15 34 3 23 89 318 324 58 61	0 1 40 5 122 15 44 2 8 77 365 312 97 46	0 2 42 13 136 22 93 2 42 116 413 311 95 92	1 0 41 54 83 16 151 7 48 175 468 382 163 75	0 3 36 47 122 31 184 3 60 228 425 371 231 72	1 41 25 100 32 143 7 55 167 379 296 233 72	1 2 26 7 90 24 80 1 52 107 291 257 169 42	0 1 25 3 48 16 36 1 32 78 187 187 112 16	0 4 18 0 37 6 44 1 37 38 143 108 74 25	38 0 0 8 1 17 6 42 3 19 33 94 94 48 21	39 0 2 4 0 13 2 7 1 8 18 44 44 27 7	0 0 3 0 5 4 11 0 8 16 35 34 11 6	0 0 2 0 5 0 4 0 6 5 9 17	42	43	44	45	46	47	48	49 - - - - - - - - - - - - - - - - - - -	50 - - - - - - - - - - - - - - - - - - -	51 - - - - - - - - - - - - - - - - - - -	52	1 1 4 3

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Data presented in this report were the most accurate available at the time of extraction. Surveillance datasets are subject to change. Please direct any enquiries to EPI@health.qld.gov.au