Statewide Weekly Influenza Surveillance Report

Reporting Period: ISO weeks 1–35
(31 December 2018 to 1 September 2019)

Summary

<table>
<thead>
<tr>
<th></th>
<th>2019 year to date*</th>
<th>Previous Week (19 August–25 August)</th>
<th>Recent Week (26 August–1 September)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All influenza notifications</td>
<td>54,601</td>
<td>4,471</td>
<td>3,732</td>
</tr>
<tr>
<td>Influenza A†</td>
<td>45,935</td>
<td>3,507</td>
<td>2,846</td>
</tr>
<tr>
<td>A(H1N1)</td>
<td>943</td>
<td>10</td>
<td>9</td>
</tr>
<tr>
<td>A(H3N2)</td>
<td>2,427</td>
<td>151</td>
<td>102</td>
</tr>
<tr>
<td>Subtype Unavailable</td>
<td>42,565</td>
<td>3,346</td>
<td>2,735</td>
</tr>
<tr>
<td>Influenza B</td>
<td>8,666</td>
<td>964</td>
<td>886</td>
</tr>
<tr>
<td>Victoria</td>
<td>147</td>
<td>11</td>
<td>1</td>
</tr>
<tr>
<td>Yamagata</td>
<td>14</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Lineage Unavailable</td>
<td>8,505</td>
<td>953</td>
<td>885</td>
</tr>
<tr>
<td>Type unavailable</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Influenza hospitalisations†‡</td>
<td>2,470</td>
<td>129</td>
<td>81</td>
</tr>
<tr>
<td>Intensive Care (ICU) admissions§</td>
<td>240</td>
<td>15</td>
<td>2</td>
</tr>
<tr>
<td>Percentage of tests positive‖</td>
<td>19.5</td>
<td>28.2</td>
<td>26.7</td>
</tr>
</tbody>
</table>

* 2019 year to date (YTD) includes recent week commencing ISO week 1 of the year – week commencing 31 December 2018
† Subtype counts/proportions may be subject to change as further laboratory results become available
‡ Queensland public hospitals only, includes general and ICU admissions
§ New admissions to ICU during the reporting period
ǁ Public laboratories only

Australian Influenza Vaccine Committee (AIVC) decision on the influenza vaccine composition for the Australian 2019 season
http://www.influenzacentre.org/surveillance_vaccines.htm

Trivalent vaccine
- A/Michigan/45/2015 (H1N1) pdm09-like virus
- A/Switzerland/8060/2017 (H3N2)-like virus
- B/Phuket/3073/2013-like (B/Yamagata/16/88 lineage)

Quadrivalent vaccine
Viruses listed above, plus the additional B virus:
- B/Colorado/06/2017-like virus (B/Victoria/2/87 lineage)

Figure 1 Laboratory confirmed influenza notifications in Queensland, by ISO week* and month of onset, 30 December 2013 to 1 September 2019.

Figure 2  Queensland weekly influenza notifications by type and percentage of positive tests (public laboratory system only) by ISO week and month of testing, 31 December 2018 to 1 September 2019.

Figure 3  Queensland regional influenza notifications by ISO week and month of onset, 31 December 2018 to 1 September 2019.
Figure 4 Queensland YTD 2019 influenza notifications by age group, sex, and age group specific notification rate, 31 December 2018 to 1 September 2019.

Figure 5 Percentage of positive influenza, respiratory syncytial virus (RSV), adenovirus, metapneumovirus, and parainfluenza tests (public laboratory system only) by ISO week and month of testing, 31 December 2018 to 1 September 2019.
Figure 6  Laboratory confirmed influenza admissions to Queensland public hospitals (n=2470) by ISO week, month and type of admission, and weekly proportion of laboratory confirmed influenza cases admitted to Queensland public hospitals, 31 December 2018 to 1 September 2019.

Figure 7  Laboratory confirmed influenza admissions of Queensland residents to Queensland public hospitals (n=2394) by ISO week, month and influenza type/subtype, 31 December 2018 to 1 September 2019.
Figure 8  Laboratory confirmed influenza admissions to Queensland public hospitals, by age group, sex, and age group specific admissions per 1,000 notifications, 31 December 2018 to 1 September 2019.
| Region                        | Hospital and Health Service | ISO Year To Date (2019) | Total 5 year mean | Ratio | 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 |
| Tropical                    | Torres and Cape              | 545                     | 72.0              | 7.6   | 3 | 9 | 15 | 31 | 21 | 13 | 3  | 3  | 7 | 17 | 24 | 30 | 46 | 32 | 37 | 48 | 37 | 23 | 9  | 3  | 2  | 4  | 4  |
|                             | Cairns and Hinterland        | 2,444                   | 718.6             | 3.4   | 34| 52 | 54 | 25 | 52 | 54 | 62 | 71 | 74 | 66 | 69 | 107| 195| 224| 193| 77 | 64 | 57 |
|                             | North West                   | 355                     | 116.8             | 3.0   | 1 | 13| 6  | 1  | 6  | 12 | 24 | 22 | 16 | 8  | 4  | 3  | 6  | 0  | 0  | 0  | 4  | 14 | 10 | 4  | 1  | 6  | 2  |
|                             | Townsville                   | 2,979                   | 927.4             | 3.2   | 16| 26| 19 | 14 | 14 | 21 | 27 | 39 | 34 | 43 | 54 | 96 | 128| 159| 125| 56 | 45 | 37 | 47 | 92 | 80 | 110| 91 | 97 | 109|
|                             | Mackay                       | 1,392                   | 329.2             | 4.2   | 17| 26| 21 | 12 | 15 | 19 | 26 | 28 | 36 | 26 | 38 | 26 | 19 | 28 | 27 | 38 | 41 | 37 | 28 | 40 | 23 | 15 | 17 | 18 | 30 | 44 | 37 | 22 | 30|
| Central                     | Central Queensland           | 2,807                   | 608.4             | 4.6   | 7 | 10| 11 | 6  | 12 | 15 | 9  | 2  | 12 | 8  | 6  | 12 | 12 | 17 | 22 | 15 | 20 | 21 | 38 | 46 | 47 | 40 | 38 | 58 | 43 | 68 | 95 | 94 |
|                             | Central West                 | 133                     | 47.8              | 2.8   | 1 | 2 | 0  | 2  | 1  | 0  | 0  | 0  | 0  | 1  | 0  | 3  | 8  | 4  | 4  | 0  | 3  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
|                             | Wide Bay                     | 1,748                   | 421.6             | 4.1   | 36| 26| 15 | 7  | 7  | 9  | 11 | 7  | 10 | 9  | 9  | 11 | 10 | 17 | 10 | 15 | 12 | 9  | 10 | 21 | 26 | 10 | 77 | 56 | 69 | 60 |
|                             | Sunshine Coast               | 4,467                   | 1,388.8           | 3.2   | 59| 35| 26 | 36 | 26 | 38 | 25 | 29 | 29 | 30 | 29 | 41 | 34 | 41 | 31 | 42 | 31 | 28 | 38 | 43 | 61 | 81 | 96 | 118| 200| 154|
|                             | Metro North                  | 11,801                  | 4,290.6           | 2.8   | 100|112|116| 96 | 112|109|140|106| 79 | 97 |117 |114 |125|109| 91| 76 | 81 | 89 | 90 |161|214|253|408|600|597|
| Southern                    | Metro South                  | 12,504                  | 4,540.6           | 2.8   | 71|129| 82 | 78 |107|107|114| 82 |104 | 93 |114 |109 |118|106|113| 71 | 99 | 98 | 98 |132|176|205|356|473|546|
|                             | Darling Downs                | 3,098                   | 1,353.8           | 2.3   | 10| 8 | 11 | 9  |14  |12  |22  |14 | 18 |23  |18  |16 | 18 |24  |73  |47  |32  |34  |32  |54  |56  |59  |73  |110|101|
|                             | West Moreton                 | 4,142                   | 1,044.2           | 4.0   | 21| 18| 21 | 11 |13  |16  |13 | 14 |18  |19  |37 | 43 |42  |17  |23  |22  |25  |21  |16  |30  |44  |55  |109|217|208|
|                             | South West                   | 317                     | 93.0              | 3.4   | 2 | 1 | 1  | 1  | 1  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
|                             | Gold Coast                   | 5,869                   | 2,106.0           | 2.8   | 62| 66| 52 | 53 | 50 | 73 | 73 | 53 | 38 | 39 | 44 | 40 | 47 | 53 | 49 | 45 | 47 | 42 | 40 | 60 | 78 | 61 | 79 | 157|180|
| Queensland                  |                              | 54,601                  | 18,058.8          | 3.0   | 44| 53| 46 | 37 | 458|491|553|470|470|480|563|653|816|865|825|538|515|527|516|771|887|1,006|1,425|2,111|2,109|

*Regions defined here are aggregates of HHS used for surveillance purposes only and are not official geographical areas.*
<table>
<thead>
<tr>
<th>Region</th>
<th>Hospital and Health Service</th>
<th>Year to date notifications*</th>
<th>Hospital admissions^ year to date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2019 total</td>
<td>As a percentage of</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>notifications (%)</td>
</tr>
<tr>
<td><strong>Tropical</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Torres and Cape</td>
<td>545</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>Cairns and Hinterland</td>
<td>2,444</td>
<td>130</td>
</tr>
<tr>
<td></td>
<td>North West</td>
<td>355</td>
<td>41</td>
</tr>
<tr>
<td></td>
<td>Townsville</td>
<td>2,979</td>
<td>261</td>
</tr>
<tr>
<td></td>
<td>Mackay</td>
<td>1,392</td>
<td>137</td>
</tr>
<tr>
<td><strong>Central</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Central Queensland</td>
<td>2,807</td>
<td>135</td>
</tr>
<tr>
<td></td>
<td>Central West</td>
<td>133</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>Wide Bay</td>
<td>1,748</td>
<td>138</td>
</tr>
<tr>
<td></td>
<td>Sunshine Coast</td>
<td>4,467</td>
<td>96</td>
</tr>
<tr>
<td><strong>Southern</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metro North</td>
<td>11,801</td>
<td>401</td>
</tr>
<tr>
<td></td>
<td>Metro South</td>
<td>12,504</td>
<td>581</td>
</tr>
<tr>
<td></td>
<td>Darling Downs</td>
<td>3,098</td>
<td>56</td>
</tr>
<tr>
<td></td>
<td>West Moreton</td>
<td>4,142</td>
<td>121</td>
</tr>
<tr>
<td></td>
<td>South West</td>
<td>317</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Gold Coast</td>
<td>5,869</td>
<td>256</td>
</tr>
<tr>
<td><strong>Queensland</strong></td>
<td></td>
<td>54,601</td>
<td>2,420</td>
</tr>
</tbody>
</table>

* Includes 131 overseas visitors notified in Queensland

^ Includes 26 overseas visitors admitted to Queensland public hospitals. A further 50 interstate residents were admitted to Queensland public hospitals and are not included in the above table. Influenza notifications in Australian residents are reported to the National Notifiable Diseases Surveillance System by the health department in the state or territory of usual residence.
Figure 9  Annual* age-specific influenza notification rates in Queensland, 1 January 2014 to 1 September 2019.

*Annualised rate for 2019 (ISO week year to date)
Appendix 1: Hospital and Health Services (2018 edition) with regions

Hospital and Health Services, Queensland Health
by Recognised Public Hospitals
and Primary Health Centres

Regions and Hospital and Health Services

<table>
<thead>
<tr>
<th>Region</th>
<th>Tropical</th>
<th>Central</th>
<th>Southern</th>
</tr>
</thead>
<tbody>
<tr>
<td>Torres and Cape</td>
<td>Central Queensland</td>
<td>Metro North</td>
<td></td>
</tr>
<tr>
<td>Cairns and Hinterland</td>
<td>Central West</td>
<td>Central West</td>
<td>Darling Downs</td>
</tr>
<tr>
<td>North West</td>
<td>Central West</td>
<td>Central West</td>
<td>West Moreton</td>
</tr>
<tr>
<td>Townsville</td>
<td>Wide Bay</td>
<td>West Moreton</td>
<td></td>
</tr>
<tr>
<td>Mackay</td>
<td>Metro North</td>
<td>Gold Coast</td>
<td></td>
</tr>
</tbody>
</table>

Prepared by: Statistical Reporting and Coordination, Statistical Services Branch, 29 May 2019
Hospital and Health Services by recognised public hospitals and primary health centres as at November 2018.