How-To Guide

Infectious Disease Trends in Ontario

This how-to guide provides basic information to help you navigate the Infectious Disease Trends in Ontario interactive tool. If you have specific questions about methodology and case definitions, please read the Infectious Disease Trends in Ontario, 2018: Technical Notes.

Step 1: Find the disease you are looking for

To get started, enter the disease name you are looking for in the Search box. You can also click on the drop-down arrow to explore the list of diseases in alphabetical order.

Figure 1. Search box

Figure 2. Search box drop-down arrow
Step 2: Explore tabs

TRENDS

For most diseases in the tool, the Trends tab is selected by default once the disease loads. This tab initially displays a graph of rates and cases by all ages and all sexes in Ontario by year. You can interact with the data by selecting different slicers (e.g., rates, cases, age group, sex, etc.) for the graph.

Please note: The appearance and the slicer options on the Trends tab may vary depending on the diseases (e.g., *Clostridium difficile* infection (CDI) outbreaks in hospitals have different slicers). Furthermore, not all diseases include a Trends tab.

For tips on how to use the interactive features of the graphs, refer to Appendix 1.

Figure 3. Example graph from the Trends tab

**Amebiasis**

<table>
<thead>
<tr>
<th>Group data by</th>
<th>Age group</th>
<th>Sex (1 of 4 selected)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Years Months Age</td>
<td>All ages</td>
<td>Male</td>
</tr>
<tr>
<td>Select Graph</td>
<td>Geographic area</td>
<td>Female</td>
</tr>
<tr>
<td>Both Rates Cases</td>
<td>Ontario</td>
<td>All sexes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Did not specify male or female</td>
</tr>
</tbody>
</table>

**Amebiasis rates and cases for all ages, for all sexes, in Ontario**

![Amebiasis graph](image_url)
**MAPS**

If you click on the Maps tab, an interactive map will appear. This tab initially displays a map of rates by public health unit (PHU) for all ages and all sexes for the most current surveillance year. You can interact with the map by selecting different slicers.

Hovering over a PHU or local health integration network (LHIN) area in the map will update the summary box to the left, which contains information such as the rate, total cases and population for the selected geographic area.

Please note: The slicer options on the Maps tab vary, depending on the disease. For example, congenital diseases and CDI outbreaks in hospitals only allow users to select the year, while other diseases include sex, age group and year. Furthermore, not all diseases include a Maps tab. For more information on the rate ranges, please read the *Infectious Disease Trends in Ontario, 2018: Technical Notes*.

For tips on how to use the interactive features of the maps, refer to Appendix 2.

**Figure 4. Example map from the Maps tab (featuring selector for LHIN or PHU data)**
OTHER TABS
Depending on the disease, several other tabs may be available. These tabs include: Deaths, Hospitalizations, Organism details, Immunization status, among others. For a summary of the other tabs available and how to use them, refer to Appendix 3.

Step 3: Annotate data in a graph
Annotate the data by hovering over the download button (above the graph, to the right) and selecting Annotate from the drop-down menu.

Figure 5. Location of the Annotate feature on the Trends tab
Once you have clicked Annotate, you will be able to draw directly on the graph with your cursor.

**Figure 6. Example of an annotated graph on the Trends tab**

Amebiasis rates and cases for all ages, for all sexes, in Ontario

If you would like more options, click on Annotate and a drop-down menu will appear. Click Add and select the type of annotation that is most suitable for your purposes. The Shape section will provide you with six options.
If you have a lot of information to highlight, try different colours or line sizes. You can do this by selecting Change under the Annotate menu. You will be presented with options to alter the colour and size of your annotations, among other options.
You can download your image by clicking the Download as button. Annotations you have made will disappear on the online graph, but they will be in your downloaded file.

**Step 4: Download data and images**

To export data in a .csv file, hover over on the Download data button that is located above and to the right of the graph, map or table. Select Download data from the drop-down menu that appears.

Similarly, to export an image of a graph or a map, hover over the Download image button. From the drop-down menu that appears, select the file type you want to download.

Please note: When you download, the data or image file name will reflect the options selected for the graph or map.
Figure 9. Location of the download options under the Trends tab
Figure 10. Location of the download options under the Maps tab

Amebiasis rates by public health unit for all ages, for all sexes, Ontario, 2017

Ontario
Rate: 4.9
Total cases: 704
Cases did not specify as male or female: 1
Population: 14,229,571

Note: Cases that did not specify as male or female are included in total case counts.

Rate range (per 100,000 population)
- 0.0
- 0.1 - 4.9
- 4.2 - 8.2
- 8.3 - 12.3
- 12.4 - 16.4

Step 5: Extra help
For more detailed information on the data and methods used, including information on case definitions, classifications and data management, please refer to the Infectious Disease Trends in Ontario, 2018: Technical Notes. If you have any questions or comments about the tool, please contact us.
Appendix 1 – Graph Tips

Zoom In

To zoom in on a graph, highlight the area of the graph that you are interested in by simply clicking and dragging with your mouse over the graph. As you select an area, a blue highlight will appear over the graph. When you let go of the mouse, the graph will zoom in to the area you have highlighted.

Figure 1. Example of how to zoom in on the Trends tab

Amebiasis rates and cases for all ages, for all sexes, in Ontario
**Zoom Out**

To zoom out, click the "show all" icon at the top right corner of the graph.

**Figure 2. Example of how to zoom out on the Trends tab**

![Graph showing amebiasis rates and cases for all ages and sexes in Ontario from 2008 to 2012.](image)

**Scroll Bar Feature**

This feature allows you to zoom in or out on a graph. To do this, move the horizontal scroll bar buttons (e.g., the white circles with two lines in the middle) either left or right to select a section of the graph that you are interested in viewing.

**Figure 3. Scroll bar zoom in/out feature**

![Scroll bar zoom in/out feature](image)

To scroll through graph, left click the area between the scroll bar buttons and drag the scroll bar either left or right. To zoom out, click the "show all" icon at the top right corner of the graph.
Interactive Legend

You can interact with the legend to specify the data that appears on the graph. By clicking an item in the legend once, the item is removed from the graph. By clicking it again, the item reappears in the graph.

Figure 5. Interactive legend feature

- Total cases
- Total rates
Appendix 2 – Map Tips

Zoom In
To zoom in, select the plus symbol (+) at the top right hand side of the map image.

Figure 1. Zoom in button

Zoom Out
To zoom out, select the minus symbol (-) at the top right hand side of the map image.

Figure 2. Zoom out button

Drag an Image
To drag the image, click and hold the left button on your mouse. While holding the button down, move your mouse to drag the image. To stop dragging the image, release the left button on your mouse.

Reset
To reset the image (restore the default zoom and position of the map), select the reset button located between the plus and minus symbols at the top right hand side of the map image.

Figure 3. Reset button
# Appendix 3 – Summary of Other Tabs Available in the Tool

## Table 1. Summary of other tabs available in the Infectious Disease Trends in Ontario tool

<table>
<thead>
<tr>
<th>Tab Name</th>
<th>Description</th>
<th>How to Use It</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018 Summary</td>
<td>• Available for select diseases.</td>
<td>• Select the 2018 Summary tab.</td>
</tr>
<tr>
<td></td>
<td>• Provides a written summary of the epidemiologic trends, focusing on 2018 data.</td>
<td>• Note: Summaries from previous years are available as a PDF document accessible through a hyperlink on the landing page for the tool.</td>
</tr>
<tr>
<td>Age and Sex</td>
<td>• Available as a separate tab for CDI outbreaks in hospitals only; otherwise included under the Trends tab for other diseases.</td>
<td>• Select the Age and sex tab.</td>
</tr>
<tr>
<td></td>
<td>• Displays CDI case data sliced by age and sex in an interactive graph.</td>
<td>• Update the slicers based on your interest (e.g., year, sex, age groups). In some instances, users can make multiple selections under each slicer.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Users can download the data as a .csv file or as an image by hovering over the download button and selecting the appropriate option.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Note: Refer to the Trends tips section of this document for more information on how to interact with a graph.</td>
</tr>
<tr>
<td>Drug Resistance</td>
<td>• Available for tuberculosis only.</td>
<td>• Select the Drug Resistance tab.</td>
</tr>
<tr>
<td></td>
<td>• Summarizes drug resistance for the most current surveillance year based on specimens received and tested at PHO Laboratory.</td>
<td></td>
</tr>
<tr>
<td>Deaths</td>
<td>• Available for select diseases.</td>
<td>• Select the Deaths tab.</td>
</tr>
<tr>
<td></td>
<td>• Summarizes the number and percent of deaths by year from 2015 in a table.</td>
<td></td>
</tr>
<tr>
<td>Hospitalizations</td>
<td>• Available for select diseases.</td>
<td>• Select the Hospitalizations tab.</td>
</tr>
<tr>
<td></td>
<td>• Summarizes the number and percent of hospitalized cases by year from 2015 in a table.</td>
<td></td>
</tr>
<tr>
<td>Tab Name</td>
<td>Description</td>
<td>How to Use It</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| Immunization Status   | • Available for select vaccine preventable diseases.  
• Summarizes the immunization status of cases by year from 2015. | • Select the Immunization Status tab.  
• Select the year of interest from the drop-down.                                                  |
| Importation Status    | • Available for measles, rubella and congenital rubella syndrome.  
• Summarizes the travel history of cases by year from 2015. | • Select the Importation Status tab.  
• Select the year of interest from the drop-down.                                                   |
| Organism Details      | • Available for select diseases.  
• Summarizes number and percent of cases by species, subtype, serotype, serogroup or genotype by year from 2015 in a table. | • Select the Organism Details tab.  
• Select the year of interest from the drop-down.  
• Users can download the data as a .csv file by hovering over the download button and selecting download data. |
| Overview              | • Only tab available for rare diseases.  
• Summarizes the number of cases identified for the most current surveillance year and historically (if relevant). | • Navigate to the disease with an Overview tab; the Overview tab is selected by default. No other tabs available. |
| Resistance types      | • Available for CPE only.  
• Summarizes the number and percent of cases resistant to carbapenemase by year in a table. | • Select the Resistance Type tab.  
• Select the year of interest from the drop-down.                                                     |
| Risk Factors Summary  | • Available for CDI cases associated with hospital outbreaks and CPE.  
• Summarizes the number and percent of cases by risk factor by year in a table. | • Select the Risk Factors Summary tab.  
• Select the year of interest from the drop-down.  
• Users can download the data as a .csv file by hovering over the download button and selecting download data. |
| Specimen testing – PHO Laboratory | • Available for chlamydia, gonorrhea, legionellosis and influenza.  
• Displays the number and percent positive tests for the most current surveillance year based on specimens received and tested at PHO’s laboratory. | • Select the Specimen testing – PHO Laboratory tab.  
• Select from the options available in the Graph dropdown.  
• Note: Refer to the Trends tips section of this document for more information on how to interact with a graph. |