

# Analysis and Interpretation of Data on Priority Diseases

Each month, the surveillance focal person records summary surveillance data on priority diseases in tables and plots this data on line graphs. The surveillance focal person analyzes and interprets the results of the graphs monthly and yearly.

<b>1.0 Complete table</b>	<ol style="list-style-type: none"><li>1.1 Record the summary total of cases in the table.</li><li>1.2 Record the summary total of deaths in the table.</li><li>1.3 Calculate and record the case fatality rate. <math>\text{Deaths/Cases} \times 100 = \underline{\hspace{2cm}}</math></li></ol>
<b>2.0 Plot graph</b>	<p><u>For cases</u></p> <ol style="list-style-type: none"><li>2.1 Draw a dot on the graph that corresponds with the month (horizontal axis) and the summary total of cases (vertical axis).</li><li>2.2 Draw a straight line to connect the dot from the previous month to the current month.</li></ol> <p><u>For deaths</u></p> <ol style="list-style-type: none"><li>2.3 Draw a dot on the graph that corresponds with the month (horizontal axis) and the summary total of deaths (vertical axis).</li><li>2.4 Draw a dotted line to connect the dot from the previous month to the current month.</li></ol>
<b>3.0 Analyze and interpret results of the graph<sup>*</sup> (monthly and yearly)</b>	<ol style="list-style-type: none"><li>3.1 Review the table and graph to make sure the data are complete and up-to-date.</li><li>3.2 Observe whether there is an increase or decrease in cases, deaths, and the case fatality rate, or if there is no change.</li><li>3.3 Compare observations with previous months, seasons, and years.</li><li>3.4 Consider non-disease and disease-related reasons for the results of the trend lines.</li><li>3.5 Compare the results toward disease reduction targets, and interventions, inputs, and coverage.</li><li>3.6 Draw conclusions about the disease situation.</li></ol>
<b>4.0 Take action</b>	<ol style="list-style-type: none"><li>4.1 Decide whether to investigate and gather more information about the disease situation.</li><li>4.2 Notify the next highest level if unusual findings.</li><li>4.3 Plan and carry out an appropriate response.</li><li>4.4 Monitor the disease trends.</li><li>4.5 Evaluate the effectiveness of the response.</li></ol>

<sup>\*</sup> Refer to your national guidelines for Integrated Disease Surveillance and Response and your district analysis book for more information on analysis and interpretation of data on priority diseases.

