Welcome to the DATA EXPLORER tool on the WHO Western Pacific Health Data Platform!

This platform has a tool that is intended to help you easily visualize health and socioeconomic data for countries and areas in the Western Pacific Region to identify patterns and trends. You can access the Data Explorer Tool through the “DATA EXPLORER” page on the Health Data Platform site [https://data.wpro.who.int/data-explorer-2].
GETTING STARTED

The Data Explorer Tool comprises the three following key sections for exploring, visualizing and downloading data:

I. "Parameters" — II. "Manage selections" — III. "Data tables and data visualizations"

Each of these three tabs has a little white arrow on the right: clicking on it allows you to get a better view by expanding, or collapsing, one or two of the three panels.

WHO staff can log in with their own WIMS ID and password to save their work on the Data Explorer.
To start exploring and visualizing data, go to the “Parameters” tab, and then perform the following three actions:

1. **Go to the Indicator tab** and select the health indicator category you want.
2. **Go to the Country tab** and select the countries/areas for which you want to see the data plotted.
3. **Go to the Year tab** and select the years (or year range) for which you want to see the data plotted.
Selecting "Indicator"

Go to the **Indicator** tab to search the indicator(s) of interest through Steps 1 or 2 outlined below.

1. **"Search Indicators"**
   
Enter the name of your indicator, e.g. malaria

2. **"List All Indicators"**
   
   Check the boxes for the indicators you want to plot. You can select all the indicators to explore for now, or later choose additional ones, e.g. vaccine-preventable diseases, e.g. BCG, HepB3
I. PARAMETERS

Selecting "Country" and "Year"

Go to the **Country** tab and to the **Year** tab to select the country(ies) and year(s) of interest.

1. Select the countries or areas for which you want to see the data plotted.

2. Select the years or range of years for which you want to see the data plotted.
II. MANAGE SELECTIONS

You can review your choices made in “Parameters” (Indicator/Country/Year”) under “Manage Selections”.

From the "Manage selections" tab, you can add or remove items.

① You can add/delete any item showing under “Indicators”, “Countries/Areas” or “Years”.

② Click on “Save selections” if you want to save the new parameter selections into your account. *This feature is available only for log-in users (WHO staff).*

③ Under the “Parameters” tab, check the “Saved sessions” to see the history of your saved parameters. 
   *This feature is available only for log-in users (WHO staff).*
Go to the **Data Tables and Data Visualizations** tab to visualize the data for the indicators you have selected.

Click on any of the tabs in this panel to visualize your data as: 

- **A** Table 
- **B** Charts 
- **C** Maps 
- **D** Metadata 
- **E** Pivot Table 
- **F** API & Dashboard Templates

In this example, **Charts** is selected and a line chart is displayed by default. If you have selected more than one indicator, charts will be displayed one after the other.

Do not forget to scroll down to view the charts for all of the indicators you had selected.
A. TABLES

View your data under “TABLES” and download the files as:

1. **.CSV** (comma separated value) file, or
2. **.XLS** (Excel) file
Under “Charts”, you can select the chart types, choosing among the icons (from left to right) for:


1. **Parameters selected**
   Under this card, you can also change the parameters (i.e. country, year) for each selected indicator.

2. **Description of data**
   Clicking on this tab will provide metadata for the indicator(s) selected.

3. **Save chart**
   Save your work under this card. Saved charts can be found under the **My Explorations** tab in the main top ribbon. *This feature is available only for log-in users (WHO staff).*
You can select “Scatter plot” and “Box plot” by clicking on “Simple Statistical Charts”.

You can choose various options for your visualizations by clicking on these icons.

- Toggle Spike Lines
- Show closest data on hover
- Compare data on hover
- Download or Save as an image (PNG)
- Download or Save as Vector Graphic (SVG)

Select the indicators you want to “Plot By” and “Plot Against (compare)” by selecting the indicators listed in the drop down menus against those titles. The drop down menus list all the indicators you had previously selected. If the indicator you want is not on the list, then go back to the “Indicator” tab (within the “Parameters” tab) to add the indicator(s) of choice.

The second indicator will be added to the Y-axis by default. The default settings do not allow for adjusting the X-axis and Y-axis ranges. If you want to switch the X-axis and Y-axis, you would need to start from the first step for creating a chart and select the indicator you want to see on the X-axis.

Clicking on the Chart design tab allows you to define various features for your chart, including axes ranges and labels.
View and download data under “Maps” for a choropleth map.

1. The Map options card provides all sorts of options to design your map. You can define chart width and height and select colours.

2. Clicking on the Description of data tab will provide metadata for the indicator(s) selected.
Under the “**Metadata**” tab, you can view descriptions/definitions for the indicator(s) you selected or download the files as:

1. **.CSV** (comma separated value) file, or
2. **.XLS** (Excel) file

At the bottom of the window (**as for “Tables” or “Pivot table”**) you can select:

3. how many entries you want to display, or
4. which page you want to access
The “Pivot table” tab allows you to sort your data around the following categories: "Indicator", "Year", "Valuetype" (numeric value", "value", "null"), "ISO" or "Country" (you can filter and select the chosen values from the clickable little white arrow on each side of the tabs). Note: the heatmap algorithm for the coloring is automatic.

You can drag the various categories towards one of the three following zones:

1. The grey panel allows the category(ies) dragged up there not to appear in the table
2. The blue horizontal panel, just below the grey one, contains the category(ies) you wish to display in columns
3. The blue vertical panel, on the left of the window, contains the category(ies) you wish to display in rows
III. DATA TABLES AND DATA VISUALIZATIONS

E. PIVOT TABLE

View and sort your data under the “Pivot table” tab

1. Chose to display the data under as: “Table”, “Table barchart”, “Row heatmap”, “Column heatmap”, or “Download” the data as:
   — .CSV (comma separated data) file, or
   — .XLS (Excel) file

2. Click on either of the two arrows to achieve ascending or descending order
III. DATA TABLES AND DATA VISUALIZATIONS

F. API & DASHBOARDS TEMPLATES

1. Available APIs for your selected data

   - **Frame 1 API Links (JSON for R, PowerBI)**
     - Descriptive statistics (such as age group, sex and others) are represented as separate column or fields
     - [Link](https://data.wye.lhso.io/openapiAPI/v07b1014b4b12c971a7177798721ee6)

   - **Frame 2 API Links (JSON for R, PowerBI)**
     - Descriptive statistics (of available) such as age group, sex and others are represented by individual row or data element
     - [Link](https://data.wye.lhso.io/openapiAPI/v04b291bce7b955959797902022b9018a)

   - **Metadata & Selected Parameters**
     - [Link](https://data.wye.lhso.io/openapiAPI/v01e31996504f02a58b6e1b8b27b02e6c)

2. Dashboard Templates that uses the JSON API

<table>
<thead>
<tr>
<th>NAME</th>
<th>DESCRIPTION</th>
<th>TYPE</th>
<th>Required Libraries</th>
</tr>
</thead>
<tbody>
<tr>
<td>JSON to R Data Frame : Datavalues</td>
<td>Convert the API results into dataframe containing the YEARS, INDICATORS, COUNTRIES and DATAVALUES.</td>
<td>R</td>
<td>joinite, curl</td>
</tr>
<tr>
<td>JSON to Python/Pandas Data Frame : Datavalues</td>
<td>Convert the API results into dataframe containing the YEARS, INDICATORS, COUNTRIES and DATAVALUES using Python/Pandas</td>
<td>Python</td>
<td>pandas, join</td>
</tr>
<tr>
<td>JSON to R Data Frame : Datavalues &amp; metadata</td>
<td>Convert the API results into dataframe containing the YEARS, INDICATORS, COUNTRIES and DATAVALUES.</td>
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<tr>
<td>Data Explorer: Table, Metadata and Pivot Table</td>
<td>Shiny application that uses the datavalues and metadata API. Current functionality includes data tables, metadata and pivot table. Charts and maps will be available soon. Click here to see a sample app using disease incidence.</td>
<td>R</td>
<td>joinite, curl, shiny, shinydashboard,OT, things</td>
</tr>
</tbody>
</table>

1. API for your selected data: follow the links
2. Dashboard templates: download