

Learner's Guide to Event Visualizer

What is this guide?

This guide contains all exercises and detailed steps to perform them related to the use of Event Visualizer. Please perform each of the exercises when prompted to by your instructors. This has now been updated.

Learning objectives for this session

The overall objective of this session is to use the DHIS2 event reports app to review **tracker** data. Detailed objectives include:

1. Describe the functions of the event visualizer app
2. Describe the event visualizer interface
3. Create visualizations using tracker data
4. Describe the limitations of event visualizer when working with tracker data

Exercise 1

Create the chart "EIR - BCG 0.05 ml dose by Location" (a chart using yes/no data elements)

- Chart Type : Column
 - Program : Electronic Immunization registry, Stage:Immunization
 - Data : Data Element : BCG 0.05 mL
 - Period : This Year
 - Org Unit : All level 3 OUs
1. Favorites -> New
 2. Select the program (Electronic Immunization Registry) and stage (Immunization)
 1. Note here again there is no enrollment output type , event visualizer is using the "event" output type by default; meaning all events in across all stages are counted in the totals being displayed
 3. Select the data (Data Element : BCG 0.05 mL)
 4. Select "Yes" only.

Data

Program

Electronic Immunization Registry

Stage

Immunization

Available

All

[DE] EIR - BCG 0.1mL

[DE] EIR - BCG not given

[DE] EIR - Birth registration date

[DE] EIR - Cholera 1

Selected data items

[DE] EIR - BCG 0.05mL

Remove

One of

Select..

Yes

3. Select the Period (This Year)

Organisation units

☐ User org unit

☐ User sub-units

☒ User sub-x2-units

Lao PDR

01 Vientiane Capital

02 Phongsali

03 Louangnamtha

4. Select the org unit (All provinces, or user sub-2units)

Organisation units

User org unit

User sub-units

User sub-x2-units

Lao PDR

01 Vientiane Capital

02 Phongsali

5. Modify the layout

CHART LAYOUT

Report filter

Periods

Series dimensions

[DE] EIR - BCG 0.05mL

Category dimensions

Organisation units

Value

Aggregation

Number of events

Count

Time field

Event date

Hide

Update

6. Go to options and Hide all empty categories

Options ▾Download ▾Embed ▾

CHART OPTIONS

Data

☒ Show values

☐ Use 100% stacked values

☐ Use cumulative values

☐ Hide n/a data

☐ Include only completed events

Hide empty categories

All

Trend lines

None

Target line value / title

Target line title

Base line value / title

Base line title

Sort order

None

Output type

Event

Program status

All

Event status

All

Axes

Range axis min/max

Range axis tick steps

Range axis decimals

Range axis title

Range axis title

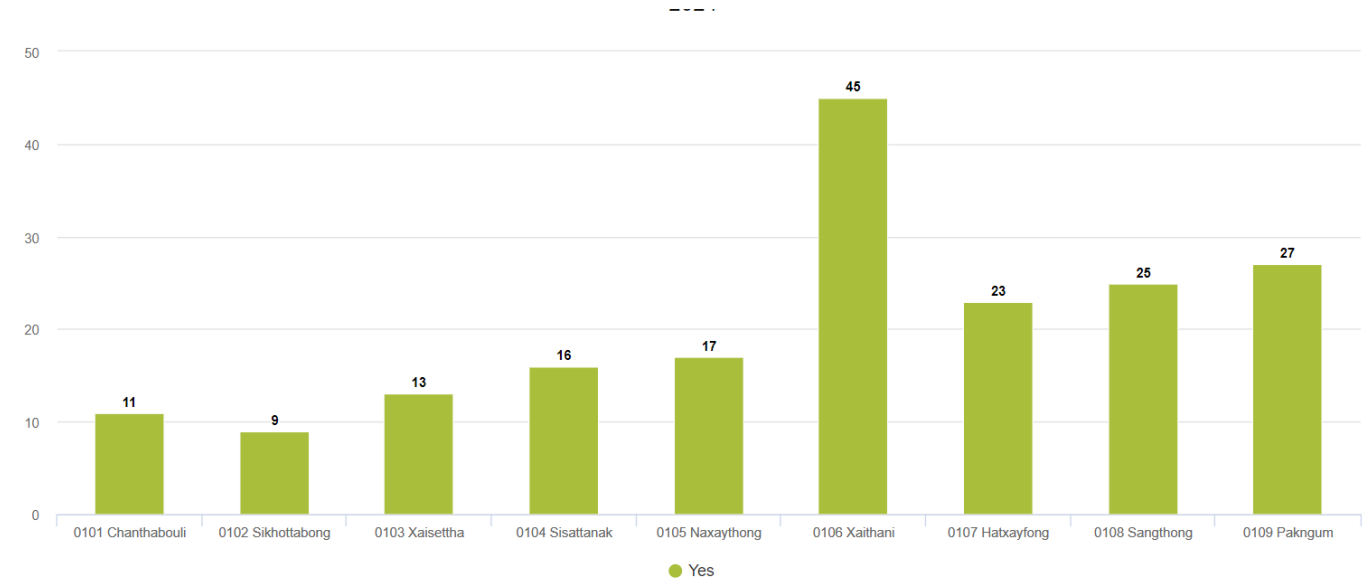
Domain axis title

Domain axis title

Style

☐ No space between columns/rows

Update the chart to review your output.



The chart is not sorted and does not have a title as is the case with the saved chart reviewed earlier. You can open up the options panel and add in these details.

CHART OPTIONS

Data

☒ Show values

☐ Use 100% stacked values

☐ Use cumulative values

☐ Hide n/a data

☐ Include only completed events

Hide empty categories

All

Trend lines

None

Target line value / title

Target line title

Base line value / title

Base line title

Sort order

Low to high

Output type

Event

Program status

All

Event status

All

Axes

Range axis min/max

Range axis tick steps

Range axis decimals

Range axis title

Range axis title

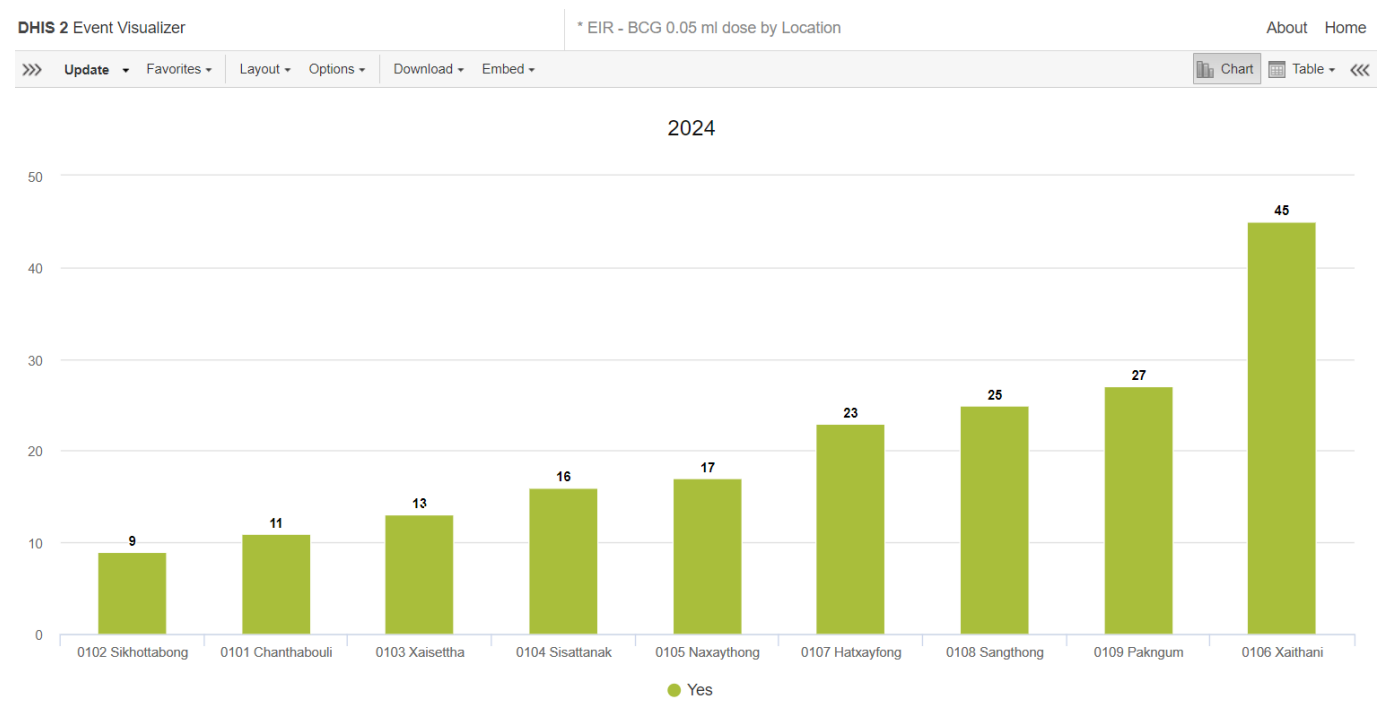
Domain axis title

Domain axis title

Style

☐ No space between columns/rows

Then proceed to update your chart to view the final output.



Other features as a refresher

You can also show them how to save the chart using the favorites menu

FavoritesLayout

New

Open

Save

Save as

Rename

Translate

Share

Write interpretation


Get link


Delete

and download the chart


Download ▾Embed ▾


Graphics


 Image (.png)


 PDF (.pdf)


Plain data source

 JSON ▸

 XML ▸

 Microsoft Excel ▸

 CSV ▸

 Advanced ▸

Exercise 2

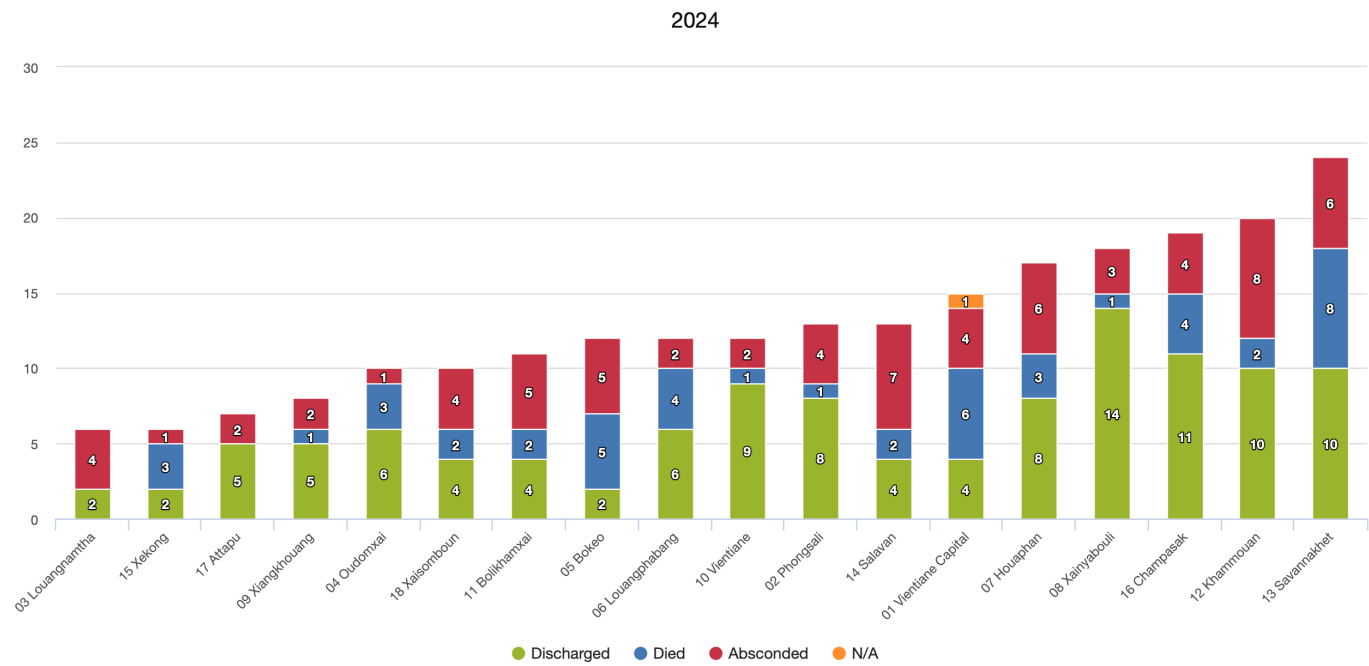
Create a chart using option sets

- 1. Chart Type : Stacked bar chart
- 2. Program : Malaria case notification, investigation and response
- 3. Stage: Case outcome
- 4. Data items : MAL-CS - Outcome of illness
- 5. Periods : This Year
- 6. Org units : user sub-units

Layout :

| Report filter | Series dimensions |
|-----------------------|--|
| Periods | [DE] MAL-CS - Outcome of illness |
| Category dimensions | Value |
| Organisation units | <div>Aggregation</div> <div><div>Number of events</div><div>Count</div></div> <div>Time field</div> <div><div>Event date</div></div> |
| <div>HideUpdate</div> | |

After updating, this should be your final output:



You can quickly modify which options appear on the chart by filtering the data element in the data selection window

Selected data items

[DE] MAL-CS - Outcome of illness Remove

One of Search.. Died

Absconded

Discharged

You can modify these options and update the chart to see how it affects what data is shown.

Exercise 3

Modify the chart "CBS - Measles Virus Detection - PCR"

Open the chart "CBS - Measles Virus Detection - PCR" Nothing so unique about this chart; however we can note that it using data from Stage 4 - Lab Results in the surveillance program. This stage is repeatable, and by default we are seeing all of the events in this program stage being displayed on the chart.

Rather than counting the total number of tests with these results, what if we wanted the number of unique people with these test results? In event reports, we were able to use the enrollment type output to both count enrollments as well as combine data from multiple stages in one list. We do not have that option here, but we can count the number of tracked entities.

Open the chart options and review the output type

CHART OPTIONS

Data

☒ Show values

☐ Use 100% stacked values

☐ Use cumulative values

☒ Hide n/a data

☐ Include only completed events

Hide empty categories

None

Trend lines

None

Target line value / title

Target line title

Base line value / title

Base line title

Sort order

None

Output type

Tracked entity instance

Program status

Event

Event status

Enrollment

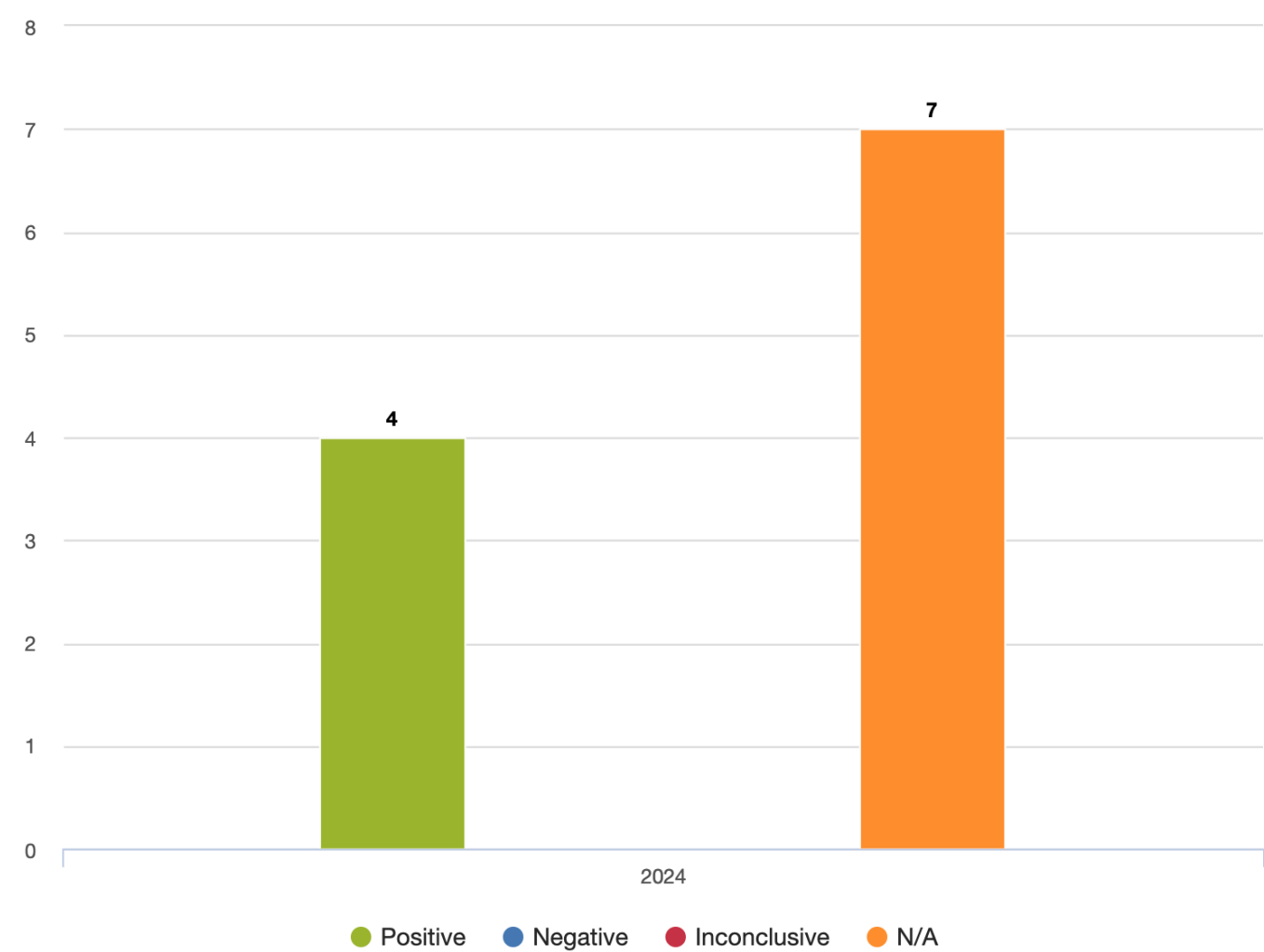
Tracked entity instance

We can see there are 3 options:

1. Event
2. Enrollment
3. Tracked Entity Instance

NB: Enrollment does not work as we can not pull data from multiple stages in event visualizer. It seems to be there incorrectly. Please ask the participant's to ignore this option.

Select the option "Tracked entity instance" and update the chart. You should see a a few less positive cases identified within this org unit when compared to the previous chart, as it is counting the number of TEI's uniquely, rather than counting the number of events matching the criteria of your filter(s).



Note: Why the different language between event reports and event visualizer regarding the output type? The Enrollment output type in event reports allows you to display information unique to an enrollment, as well as obtain data across an entire enrollment (meaning you can review data from multiple program stages together in the line list; and obtain unique counts via the pivot table). The "Tracked entity instance" output type in event visualizer is much more limiting. It does not allow you to pull data from multiple program stages; it just let's you count the number of unique tracked entities (in this case individual people) that meet the criteria you have set via your filters within a program stage 1 or more times. This can be useful but it is important to identify this distinction.