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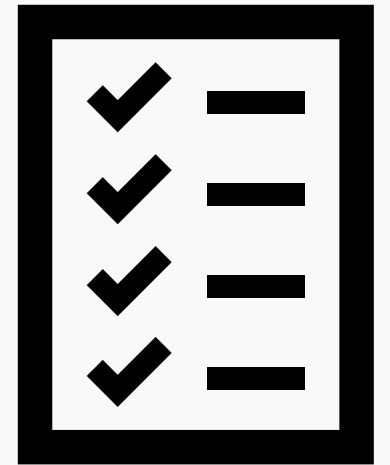
New York State Public Health Corps Fellowship Program

**Visualizing New York State Data: An Overview of the Prevention Agenda and
Community Health Indicator Reports Dashboards and How to Use Excel to
Generate Your Own Visualizations**

FEBRUARY 12TH, 2025, EDUCATIONAL SERIES: SPECIALIZED SKILLS

AGENDA

- Welcome!
- Session Learning Objectives
- Presentation: *Visualizing New York State Data: An Overview of the Prevention Agenda and Community Health Indicator Reports Dashboards and How to Use Excel to Generate Your Own Visualizations*
- Q&A
- Closing Remarks



SESSION LEARNING OBJECTIVES

By the end of the session, learners will be able to:

1. Describe how to navigate the Prevention Agenda (PA) and Community Health Indicator Reports (CHIRS) dashboards
2. Examine and interpret data
3. Demonstrate how to extract data from the dashboard
4. Plot visualizations similar to displays on the dashboards using 1) traditional means and 2) pivot tables



WELCOME!

NAILA KABIRAJ



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VISUALIZING NEW YORK STATE DATA

AN OVERVIEW OF THE PREVENTION AGENDA AND COMMUNITY HEALTH INDICATOR REPORTS DASHBOARDS AND
HOW TO USE EXCEL TO GENERATE YOUR OWN VISUALIZATIONS

NAILA KABIRAJ, MPH

Feb 12, 2025 | NYLearnsPH

OBJECTIVES

Dashboard:

- Describe how to navigate the Prevention Agenda (PA) and Community Health Indicator Reports (CHIRS) dashboards
- Examine and interpret data

Excel:

- Demonstrate how to extract data from the dashboards
- Plot visualizations similar to displays on the dashboards using 1) traditional means and 2) pivot tables

OVERVIEW OF THE PA AND CHIRS

Prevention Agenda 2019-2024:

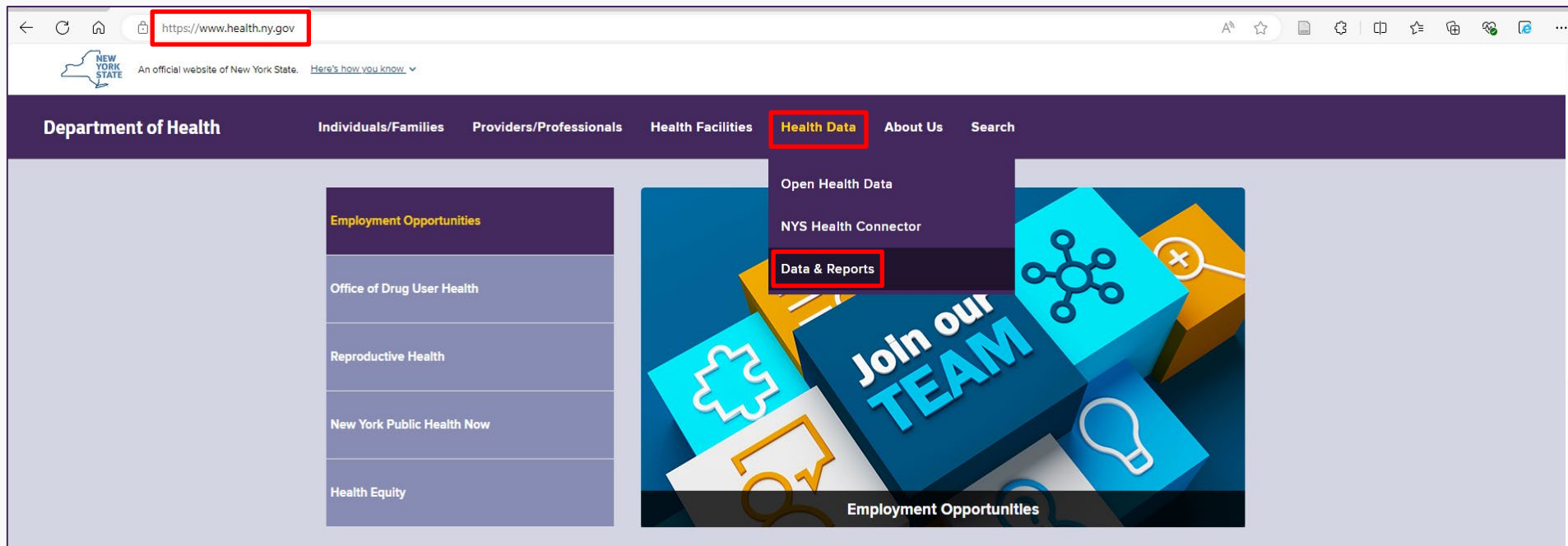
- The State's health improvement plan
- A blueprint for state and local agencies to implement interventions that achieve objectives set in each focus area
- **6** Priority Areas, each with a number of focus areas that each have their own goals, objectives, and interventions

Community Health Indicator Reports:

- Developed in 2012
- Provides information across **15** health topics for NYS communities to assess performance

NAVIGATING TO THE DASHBOARDS

1. Go to [health.ny.gov](https://www.health.ny.gov)
2. Click on **Health Data** at the top menu of options
3. Select **Data and Reports** from the dropdown



NAVIGATING TO THE DASHBOARDS

4. Choose a dashboard to view

The screenshot shows the New York State Department of Health website's "Data & Reports" section. The page features a navigation bar with links for "Individuals/Families", "Providers/Professionals", "Health Facilities", "Health Data", "About Us", and "Search". Below the navigation bar, the "Data & Reports" section is highlighted with a large blue banner containing the text "DATA & REPORTS" and various data-related icons. Below the banner, there is a paragraph of text and a "Dashboards" section. The "Dashboards" section includes a "Community Health Dashboards" subsection with three dashboard cards: "Prevention Agenda", "Community Health Indicator Reports (CHIRS)", and "Leading Causes of Death". Each card includes a small chart and a brief description of the dashboard's content.

NEW YORK STATE An official website of New York State. [Here's how you know](#) ▾

Department of Health Individuals/Families Providers/Professionals Health Facilities Health Data About Us Search

You are Here: [Home Page](#) > Data & Reports

Data & Reports

View key Department of Health dashboards, access downloadable datasets, and see the [full A-Z list](#) of data pages and reports.

Dashboards

Community Health Dashboards

[Prevention Agenda](#)

Tracking progress on the implementation of the State Health Improvement Plan's priority areas: Reducing health disparities; Preventing chronic diseases; Promoting a healthy and safe environment; promoting healthy women, infants, and children; Promoting well-being and preventing mental and substance use disorders; and Preventing communicable diseases

[Community Health Indicator Reports \(CHIRS\)](#)

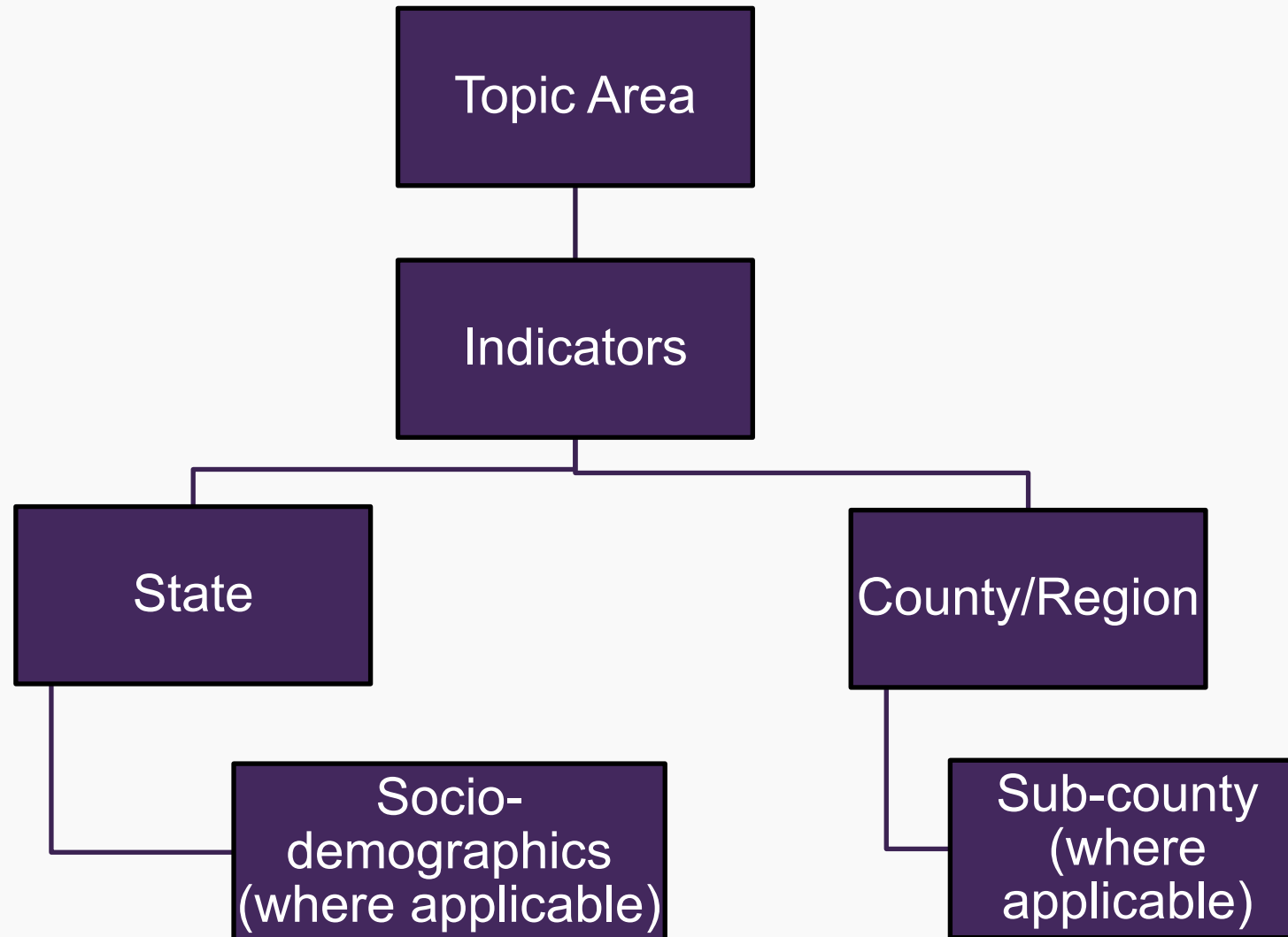
Tracking the health of New Yorkers across communicable diseases, chronic diseases, and behavioral and health risk factors

[Leading Causes of Death](#)

Top causes of all deaths and premature deaths, and estimated life expectancy in New York

NEW YORK STATE | Department of Health



DATA ORGANIZATION



PERFORMANCE METRICS FOR EACH INDICATOR





Indicator Status (if applicable)

Indicates whether the objective has been met or not

Indicator Status <i>i</i>	
Met	
Unmet	






Indicator Performance

Compares data for the most recent time period for which data are available to data from the previous time period

Indicator Performance <i>i</i>	
Improved	
No Change	
Worsened	
N/A	

Concern Level

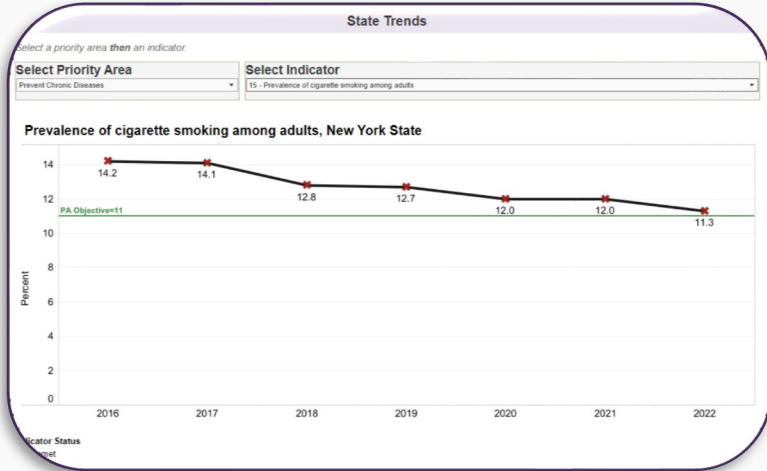
Represents how a county is doing in comparison to other counties in New York State based on a quartile distribution

Concern Level <i>i</i>	
High Concern	
Moderate Concern	
Low Concern	
N/A or Suppressed	
No Distribution	



VISUALIZATIONS

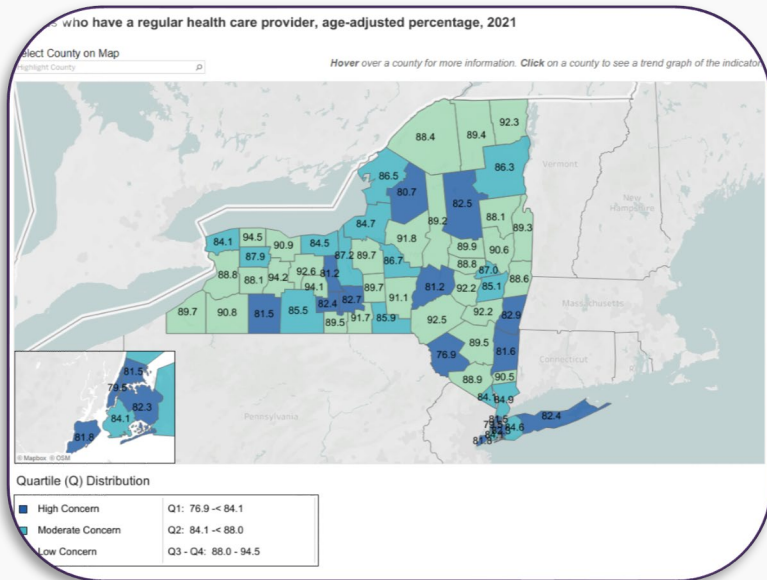
Trend Graphs



Bar Charts



Maps



Tables

Percentage of 24-35-month old children with the 4:3:1:3:3:1:4 immunization series, 2021

Region	County/Region	Fully immunized children	Children aged 24-35 months	Percent	
Long Island	Nassau	9,060	14,862	61.0	
	Suffolk	9,472	15,948	59.4	
	LONG ISLAND	18,532	30,810	60.1	
New York City	Bronx	13,265	19,591	67.7	
	Kings	19,490	35,536	54.8	
	New York	9,505	14,638	64.9	
	Queens	18,532	26,874	69.0	
	Richmond	2,714	5,401	50.2	
Mid-Hudson	NEW YORK CITY	63,506	102,040	62.2	
	Dutchess	1,785	2,725	65.5	
	Orange	2,262	5,229	43.3	
	Putnam	604	961	62.9	
	Rockland	2,166	5,539	39.1	
	Sullivan	447	911	49.1	
	Ulster	944	1,522	62.0	
	Westchester	6,475	10,441	62.0	
	MID-HUDSON	14,683	27,328	53.7	
	Albany	2,116	2,951	71.7	
Capital Region	Columbia	343	482	71.2	
	Greene	261	417	62.6	
	Rensselaer	1,245	1,572	79.2	
	Saratoga	1,522	2,145	64.9	
	Schenectady	1,292	1,923	67.2	
	CAPITAL REGION	7,079	9,490	74.6	
	Mohawk Valley	Fulton	297	534	55.6
		Herkimer	388	639	60.7
		Montgomery	329	610	53.9
		Otsego	319	463	68.9
Schoharie		189	305	62.0	
MOHAWK VALLEY		1,522	2,551	59.7	
Clinton		620	756	82.0	
Franklin		220	455	48.4	
Warren		450	570	78.9	
Washington		405	579	69.9	
North Country	Essex	162	314	51.6	
	Hamilton	21	28	75.0	
	NORTH COUNTRY	1,878	2,702	69.5	

VISUALIZING IN EXCEL



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IMPORT THE DATA YOU NEED

Prevention Agenda Tracking Dashboard

Dashboards

Data Export

Technical Notes

User's Guide

Other Dashboards and
Useful Links

Contact Us

Prevention Agenda 2019-2024 Data Export Links

- State Most Recent Data
- State Trend Data
- Demographic Data
- County Most Recent Data
- County Trend Data
- Sub-County Data



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EXAMPLE: PLOTTING TREND GRAPHS WITH COUNTY TREND DATA

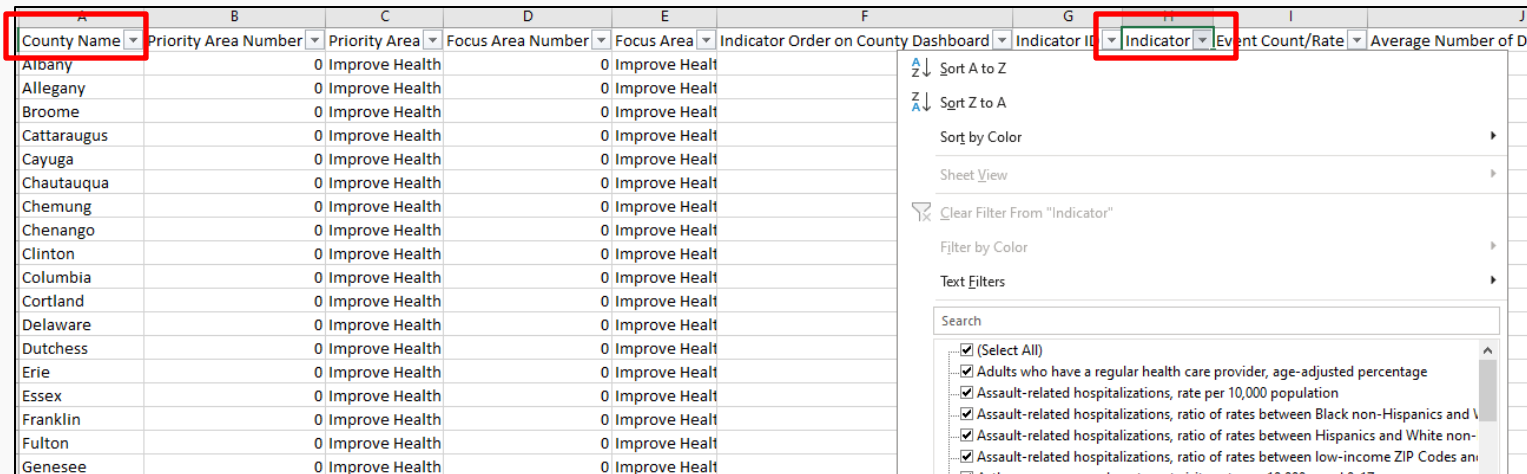
Two ways:

1. Subsetting and plotting for one indicator
2. Using a pivot table

1. SUBSETTING AND PLOTTING

Steps:

- Apply a filter to the headers (which are the columns in the dataset)
- Make selections for an indicator and county/region



County Name	Priority Area Number	Priority Area	Focus Area Number	Focus Area	Indicator Order on County Dashboard	Indicator ID	Indicator	Event Count/Rate	Average Number of De
Albany	0	Improve Health	0	Improve Healt					
Allegany	0	Improve Health	0	Improve Healt					
Broome	0	Improve Health	0	Improve Healt					
Cattaraugus	0	Improve Health	0	Improve Healt					
Cayuga	0	Improve Health	0	Improve Healt					
Chautauqua	0	Improve Health	0	Improve Healt					
Chemung	0	Improve Health	0	Improve Healt					
Chenango	0	Improve Health	0	Improve Healt					
Clinton	0	Improve Health	0	Improve Healt					
Columbia	0	Improve Health	0	Improve Healt					
Cortland	0	Improve Health	0	Improve Healt					
Delaware	0	Improve Health	0	Improve Healt					
Dutchess	0	Improve Health	0	Improve Healt					
Erie	0	Improve Health	0	Improve Healt					
Essex	0	Improve Health	0	Improve Healt					
Franklin	0	Improve Health	0	Improve Healt					
Fulton	0	Improve Health	0	Improve Healt					
Genesee	0	Improve Health	0	Improve Healt					

- Copy the filtered rows and columns and paste onto a new Sheet
- Select a blank cell, go to Insert at the top ribbon, and choose the line graph icon
- Right click the blank display and choose 'Select Data...'

1. SUBSETTING AND PLOTTING

- f. Under Legend Entries (Series): choose the values to populate the y-axis with, in this case the Percentage/Rate/Ratio and 2024 Objective
- g. Under Horizontal (Category) Axis Labels: Choose the data years the values correspond to

Indicator	Event Count	Average	Measure	Percentage/Rate/Ratio	Lower Limit	Upper Limit	Data Component	Quartile	2024 Objective	Objective	Data Years	Date Source
Percentage	35,196	147,390	Percent	23.9					22.8	New York	2012	Vital Reco
Percentage	34,782	147,445	Percent	23.6					22.8	New York	2013	Vital Reco
Percentage	35,445	149,086	Percent	23.8					22.8	New York	2014	Vital Reco
Percentage	35,631	153,623	Percent	23.2					22.8	New York	2015	Vital Reco
Percentage	36,905	153,684	Percent	24					22.8	New York	2016	Vital Reco
Percentage	36,337	155,191	Percent	23.4					22.8	New York	2017	Vital Reco
Percentage	35,765	157,176	Percent	22.8					22.8	New York	2018	Vital Reco
Percentage	35,533	156,405	Percent	22.7					22.8	New York	2019	Vital Reco
Percentage	47,305	203,393	Percent	23.3					22.8	New York	2020	Vital Reco
Percentage	44,185	181,421	Percent	24.4					22.8	New York	2021	Vital Reco

Select Data Source

Chart data range:

The data range is too complex to be displayed. If a new range is selected, it will replace all of the series in the Series panel.

Switch Row/Column

Legend Entries (Series)

- Percentage/Rate/Ratio
- 2024 Objective

Horizontal (Category) Axis Labels

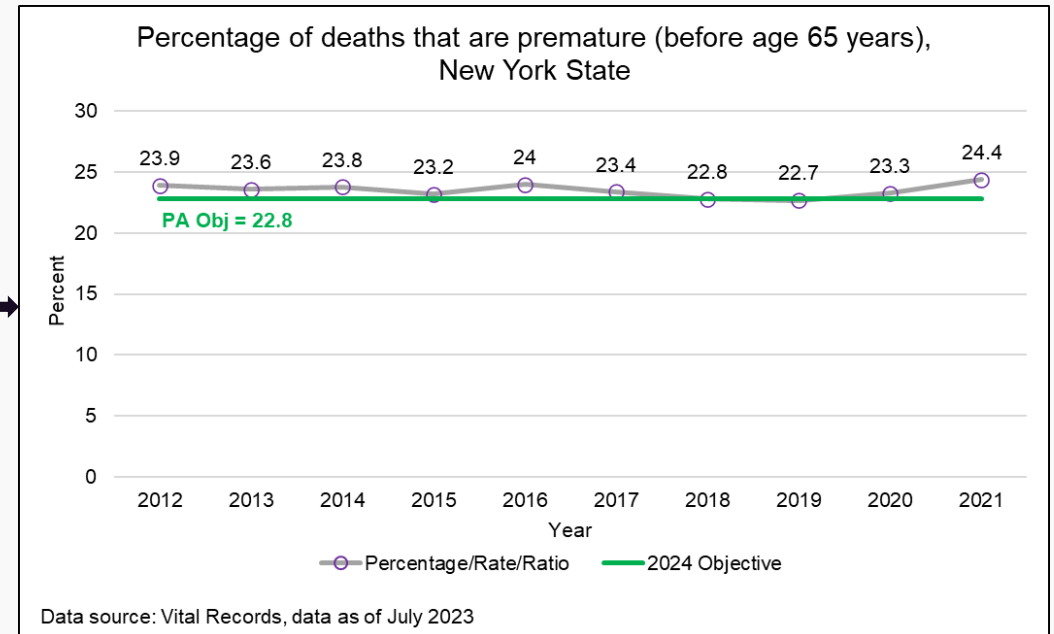
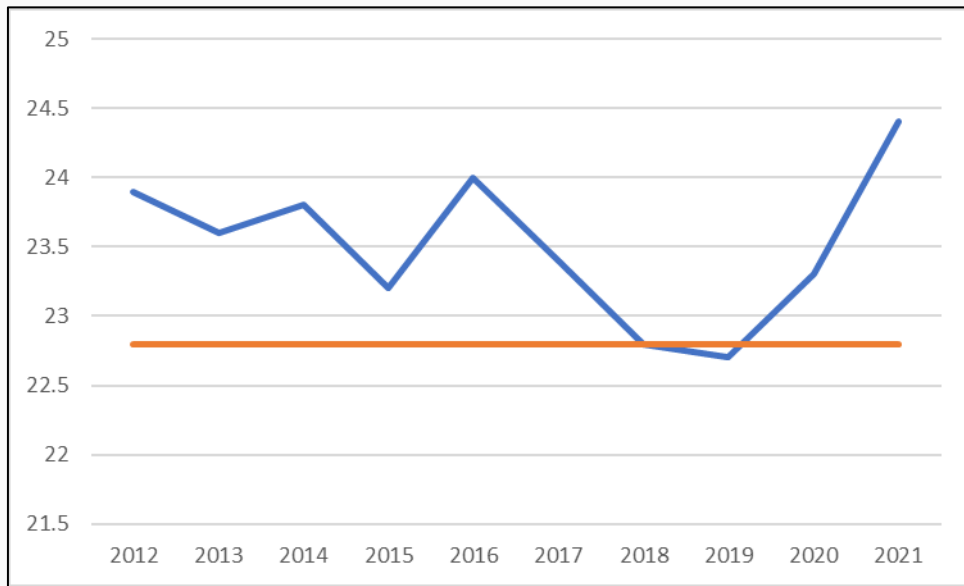
- 2012
- 2013
- 2014
- 2015
- 2016

Hidden and Empty Cells

OK Cancel

SUBSETTING AND PLOTTING

h. Use formatting tools to change from simple lines to an appropriately labeled line graph



2. USING A PIVOT TABLE

Steps:

- Select data you want to work with
- From the top ribbon, click Insert>Table
- Then Insert>PivotTable. Select the table just generated
- Open the pivot table on a new worksheet

Fields are all the columns in the selected data

The screenshot shows the Excel interface with a PivotTable Fields task pane on the right. The task pane is titled 'PivotTable Fields' and contains a list of fields with checkboxes. The fields are: County Name, Priority Area Number, Priority Area, Focus Area Number, Focus Area, Indicator Order on County Dashboard, Indicator ID, Indicator, Event Count/Rate, Average Number of Denominator/Rate, and Measure Unit. Below the list are four sections: Filters, Columns, Rows, and Values. A red box highlights the list of fields, and another red box highlights the Filters, Columns, Rows, and Values sections. An arrow points from the text 'Fields are all the columns in the selected data' to the list of fields. Another arrow points from the text 'Filters: The field(s) by which to subset the data' to the Filters section.

Filters: The field(s) by which to subset the data

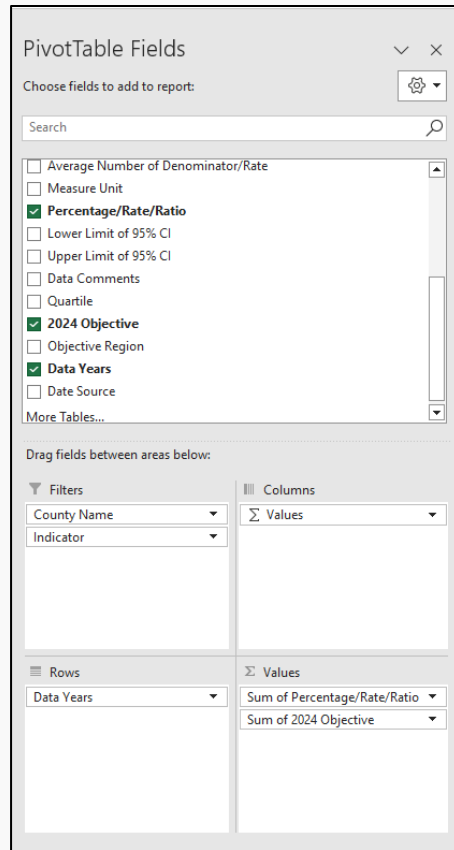
Rows: The field(s) whose values are needed as rows in the table

Columns: The field(s) whose values are needed as columns in the table

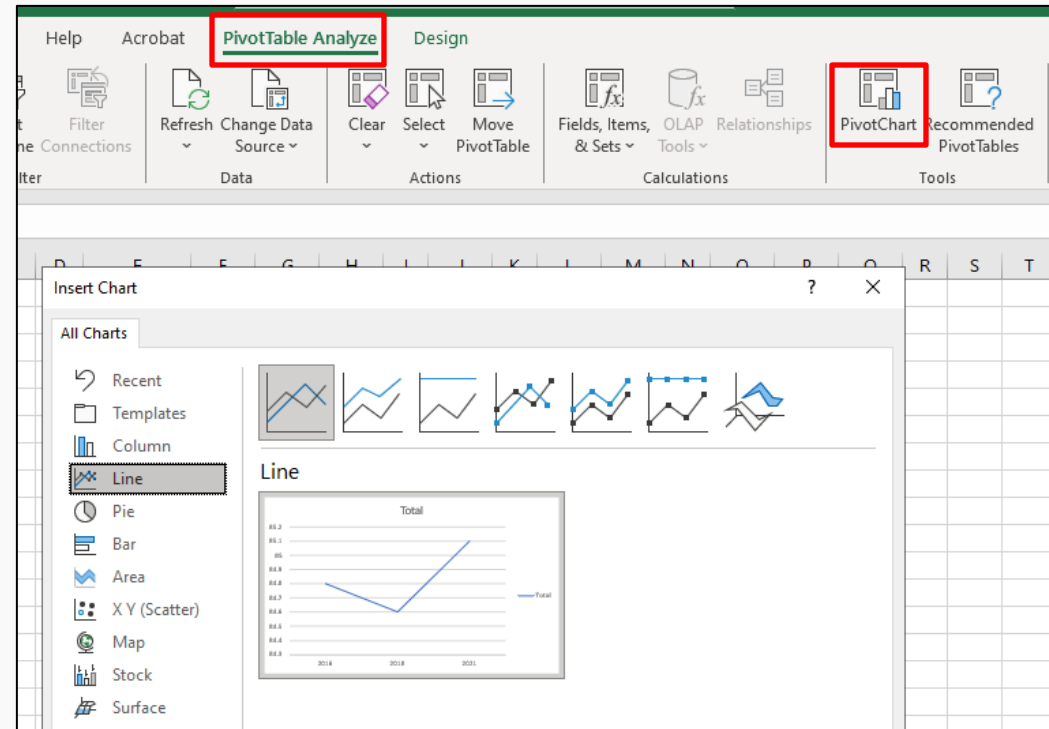
Values: The field(s) upon which a calculation can be applied. If the field is a character, Excel will tend to 'count' the different types of values

2. USING A PIVOT TABLE

e. Populate the 4 boxes below with the fields as shown:



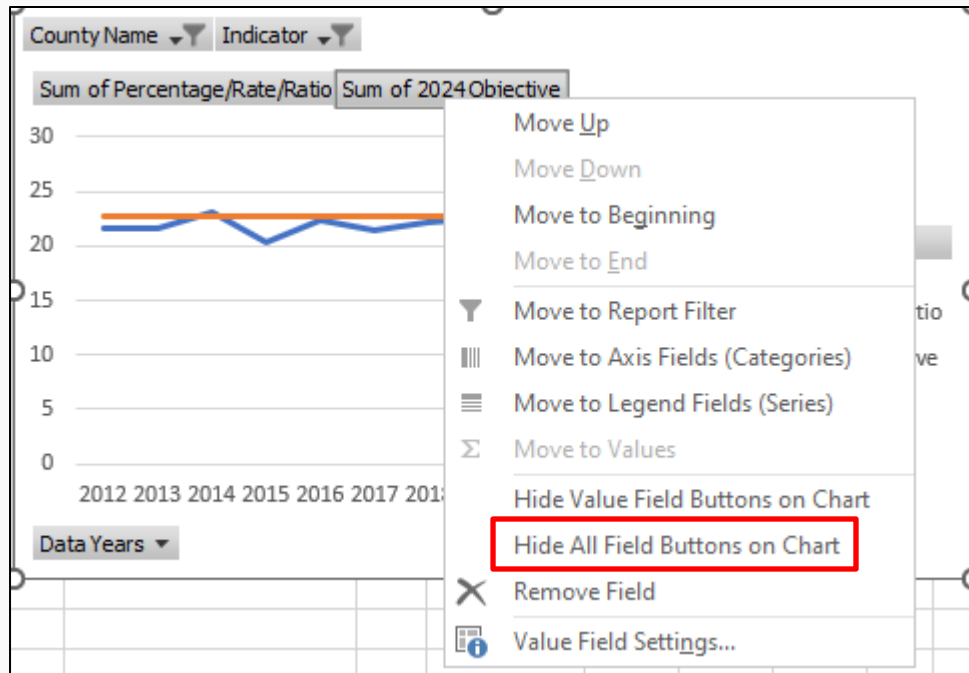
f. Click on PivotTable Analyze>PivotChart and choose a Line graph:



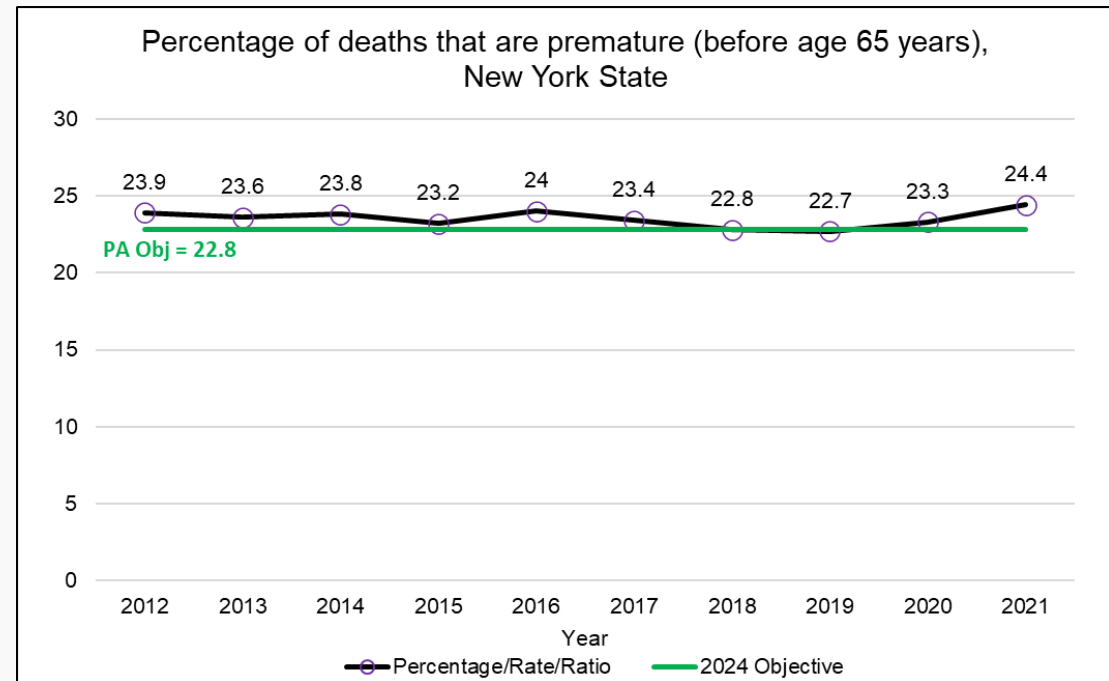
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2. USING A PIVOT TABLE

g. Right click one of the gray buttons and select “Hide All Field Buttons on Chart:

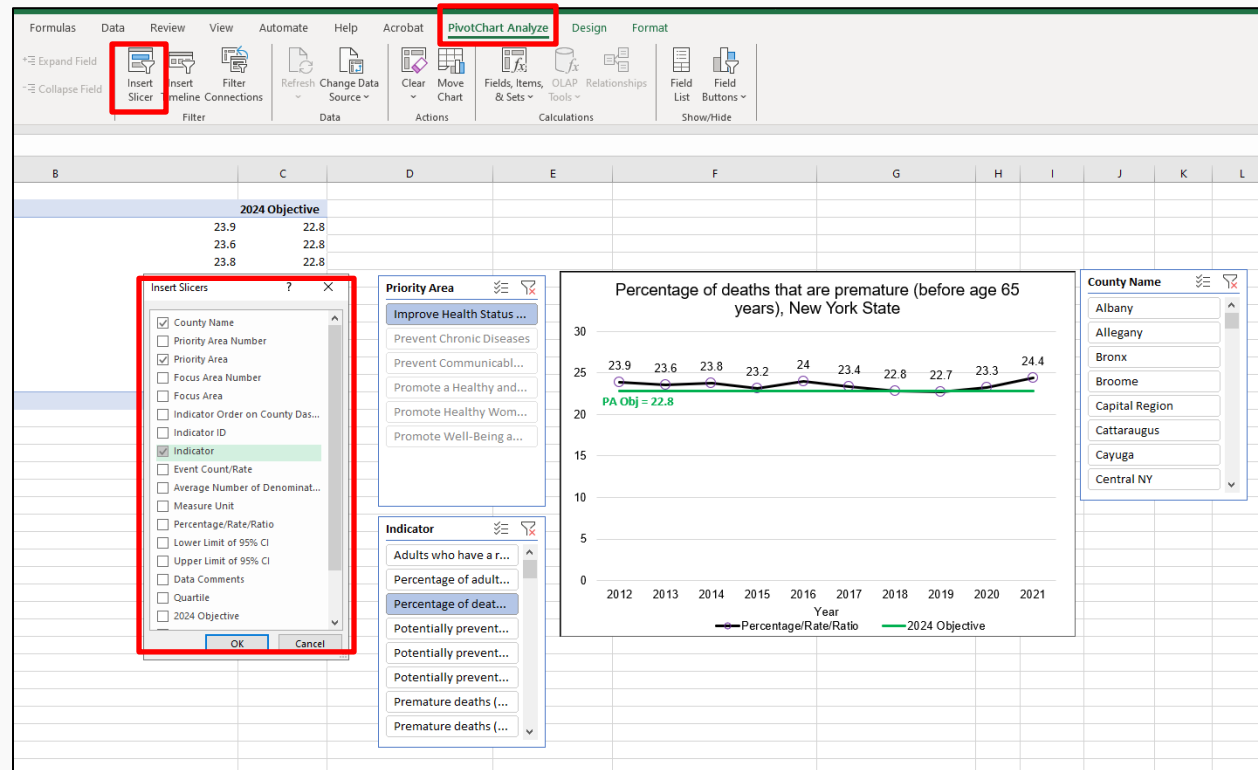


h. Use the same formatting tools as when traditionally plotting a graph to transform to an appropriately labeled line graph:



2. USING A PIVOT TABLE

- i. Click on the chart and then PivotChart Analyze>Insert Slicer (essentially filters).
- j. Select the fields you want to filter by and click 'OK'
- k. The line graph will now populate based on your selections



LIST OF RESOURCES

- New York State Department of Health data and reports: <https://www.health.ny.gov/statistics/>
- Health data on Open NY (a data hub): <https://data.ny.gov/browse?category=Health&utf8=%E2%9C%93>
 - Main page: <https://data.ny.gov/>
- About the Prevention Agenda: https://www.health.ny.gov/prevention/prevention_agenda/2019-2024/index.htm
- User's guide on navigating the Prevention Agenda and similar dashboards: https://apps.health.ny.gov/public/tabvis/PHIG_Public/pa/#userguide
- A good read on breaking data into chunks for coloring and mapping: <https://blog.datawrapper.de/interpolation-for-color-scales-and-maps/>
- On choosing **color-blind-friendly map schemes**: <https://colorbrewer2.org/#type=sequential&scheme=BuGn&n=3>
- On seeing **how colors look for different types of color blindness**: <https://davidmathlogic.com/colorblind/#%23844204-%231E1D1F-%23513177>

QUESTIONS?



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CLOSING REMARKS



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CLOSING REMARKS

LMS FOR FELLOWS: COMPLETE A QUIZ

NYLearnsPH LMS <https://www.nylearnsph.com>

Welcome to the LMS!

This guide outlines how to complete a quiz for the Certificate Program.

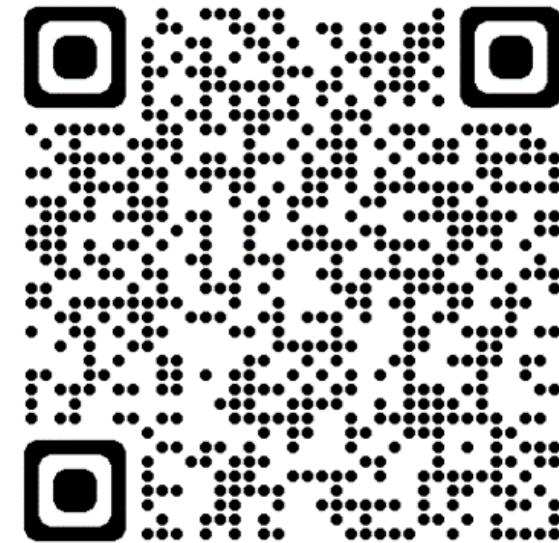
Here's how to get started:

- Please see the [Certificate Program Enrollment Quick Reference Guide](#) for steps to enroll in the NYSPHC Certificate Program.

Step 1: Log In - Start by navigating to the [NYLearnsPH Log in Page](#) (shown below) and log in using your username and password.



NYSPHC Training and Resources Website



SHOUT OUT

NYSPHC Training and Resources Website



SHOUT IT OUT

CLICK HERE >>

Tell us about a colleague or a Supervisor doing an **AMAZING** job and you just want to **SHOUT IT OUT** to the NYSPHC Team and Fellows!

The graphic features a yellow background with a blue and red megaphone on the left and two blue stars on the right. The text 'SHOUT IT OUT' is written in large, red, outlined letters, arching over the central text. A blue button with white text and a right-pointing arrow is positioned below the arch.



& Supervisor Resources Public Consulting Group

ck Spotlights & Shout Outs! NYSPHC Public S

New York Public Health Corps
Fellowship Program



The screenshot shows a navigation menu with several items. A red arrow points from the 'Spotlights & Shout Outs!' link to the 'Fellowship Program' heading. Below the heading is the NYSPHC logo, which consists of a blue circle with a white cross, a yellow map of New York State, and the words 'PUBLIC HEALTH' and 'CORPS'.



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NYSPHC SUMMIT 2025 UPDATES

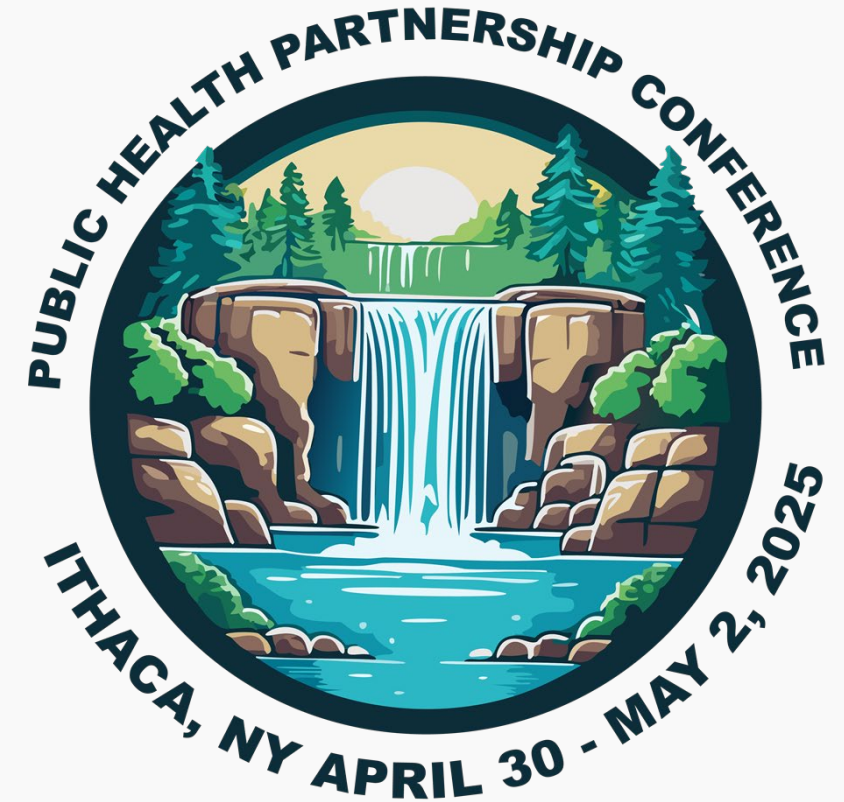
- Applicants will be notified if their abstract submission has been accepted by February 28th, 2025.
- Registration is now open!



NYSPHA PUBLIC HEALTH PARTNERSHIP CONFERENCE

Reminder:

- Registration for the New York State Public Health Association 2025 Public Health Partnership Conference is now open
- The conference will be held April 30 – May 2 in Ithaca, NY
- If you are interested in attending, please discuss with your supervisor
- For those who are interested and have supervisor approval to attend, please submit your travel request paperwork to your Regional FPC by **February 14, 2025**.



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NYSPHC UPCOMING EVENTS

NYSPHC Poster
Development Training

- March 7, 2025
- 10am-11am

NYSPHC Consortium

- March 12, 2025
- 12:30pm-2:30pm

NYSPHC Oral
Presentation Training

- March 14, 2025
- 1:30pm-2:30pm

NYSPHC Educational
Series

- April 9th, 2025
- 12:00pm-1:00pm



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THANK YOU!



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