

# Epic Data Sources: SlicerDicer

Intro to Query Tools for Research

Spring 2021



**Mount  
Sinai**

# Epic at a glance

- In place at MSH since 2011, MSQ since 2013
- In clinics since 2008 (now hundreds)
- Documentation from providers, nurses
- Visit details, timestamped events
- Orders, “flowsheets”
- Pulls in data from ADT, Bed Mgmt, Labs, Rads, Muse, Echo, Cath, Path, financials & more

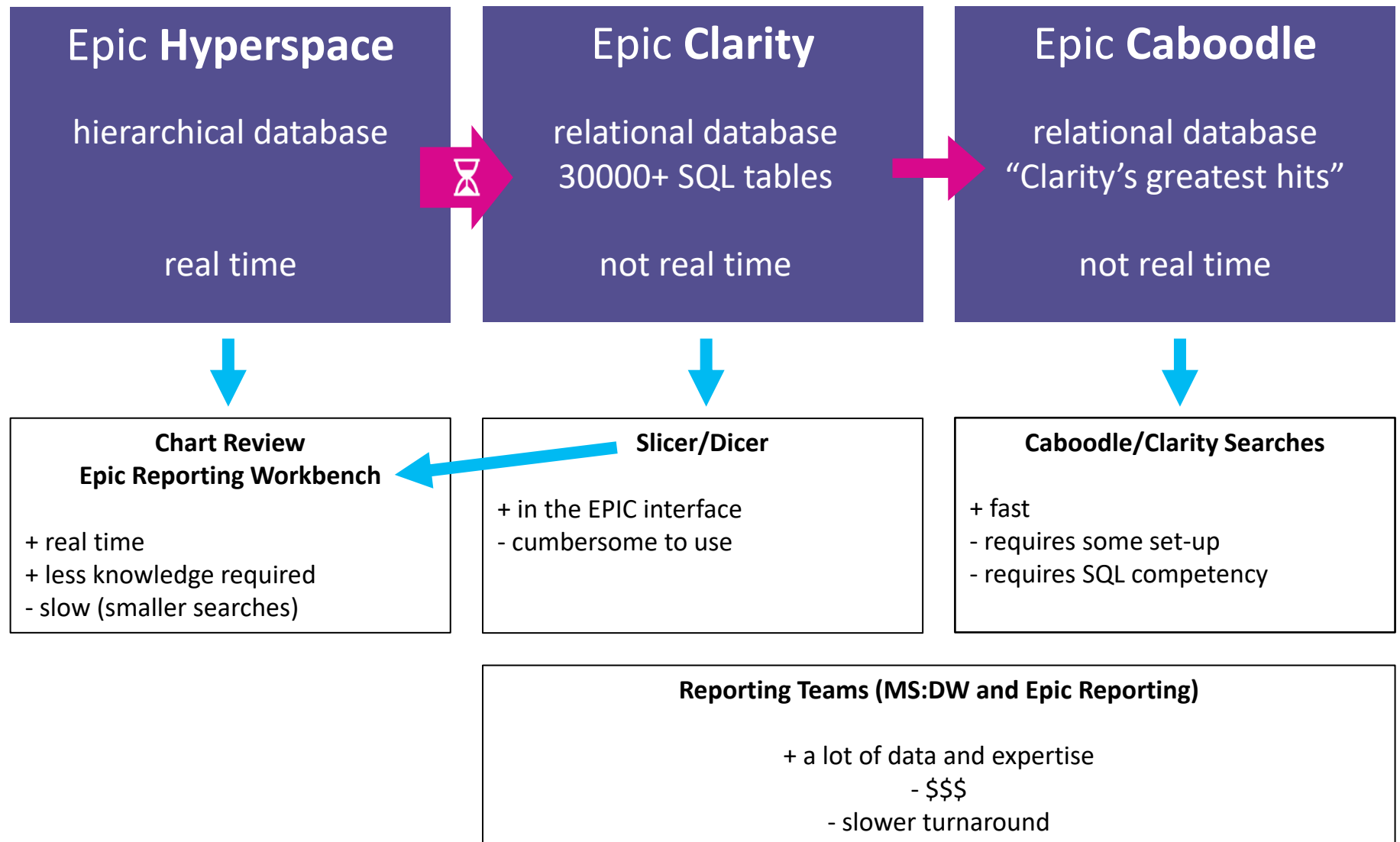


# Self Service Tools

- Built in Epic Tools
  - Slicer Dicer
  - Reporting Workbench
- Need to Work with Data Team
  - Caboodle (not self-service)
- Other Sources
  - Mount Sinai Data Warehouse (MSDW)



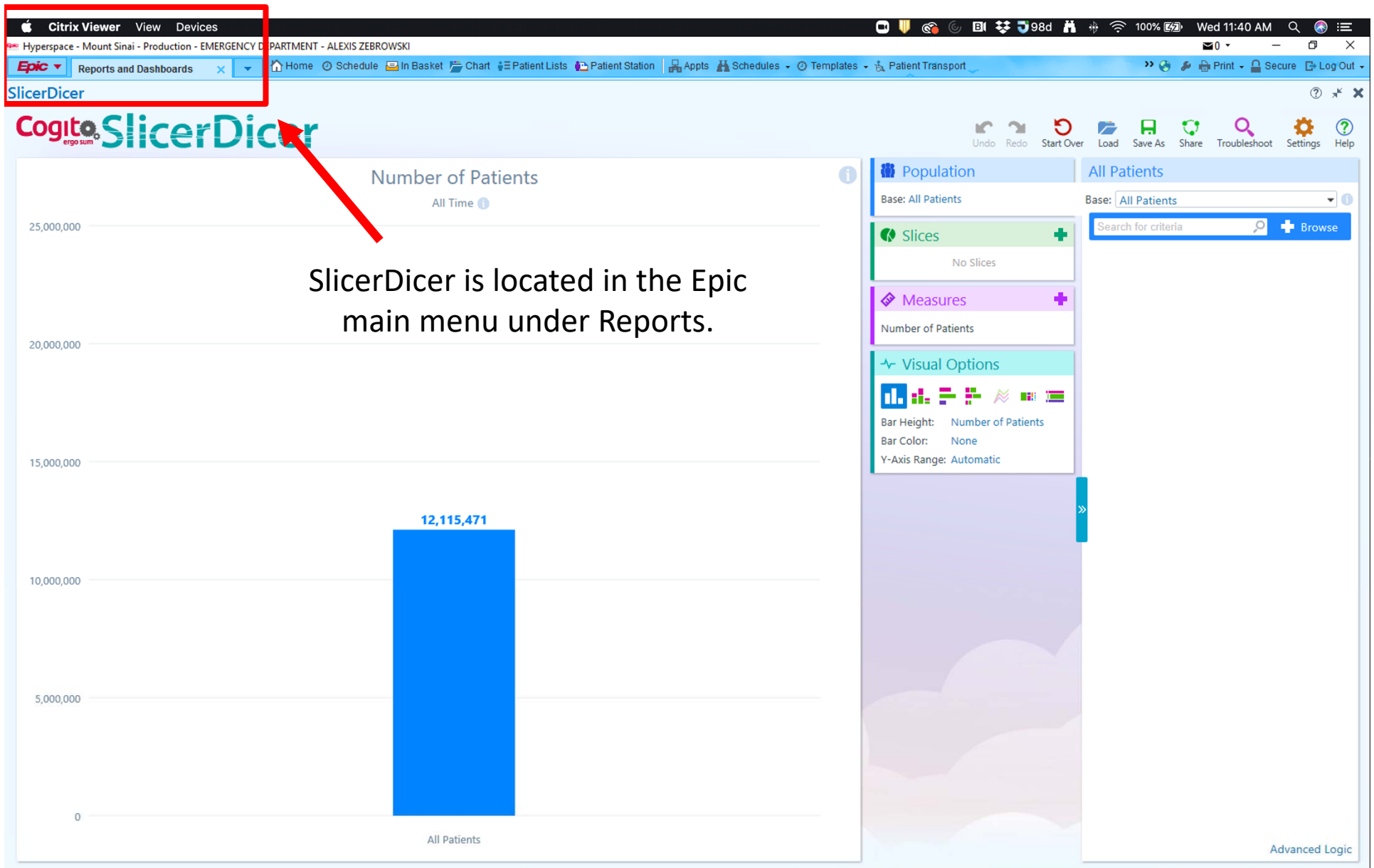
# Data in Epic

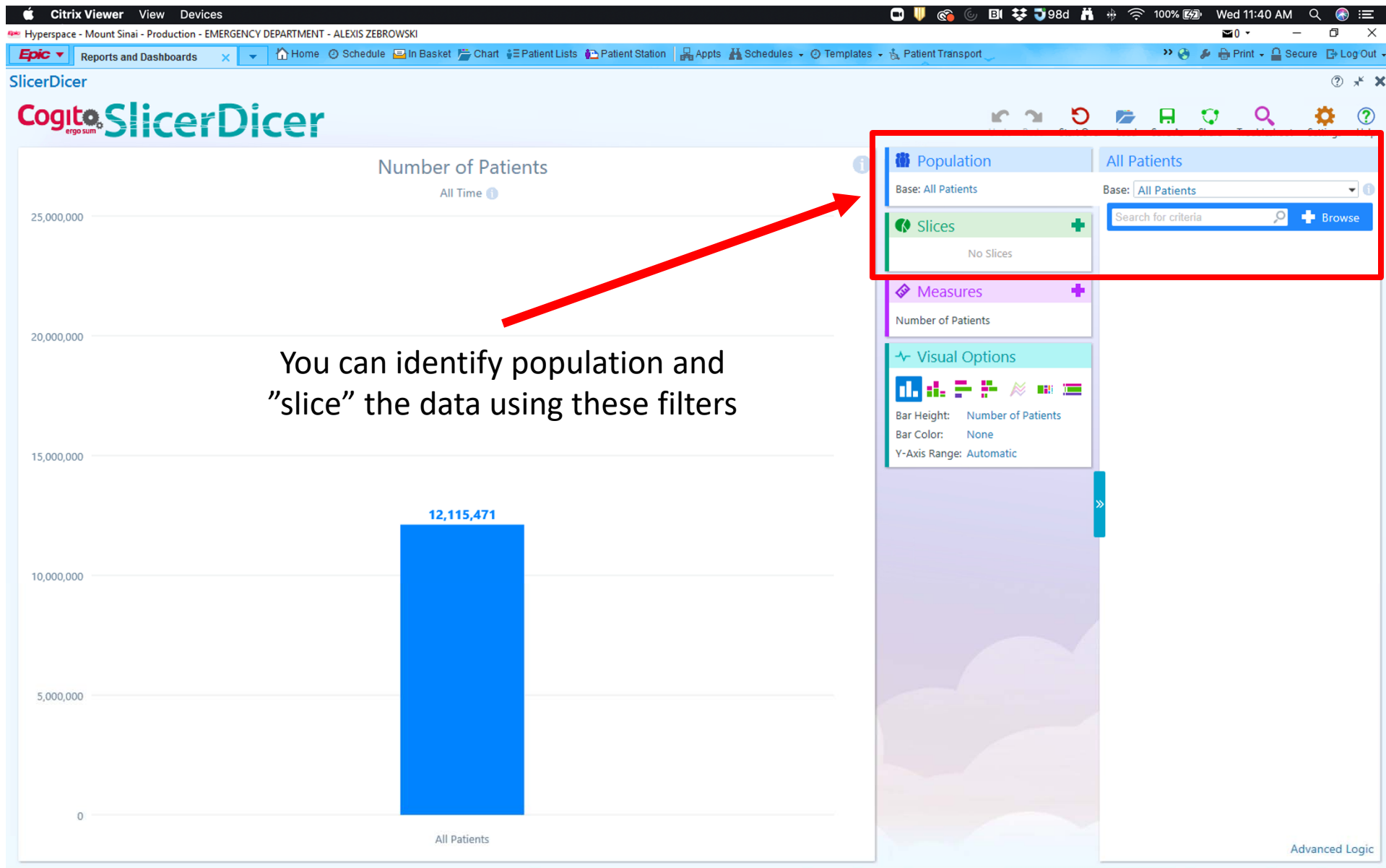


# Epic SlicerDicer

- Visualization tool for quickly estimating patients meeting criteria
- Patient-level data
  - Diagnoses
  - Demographics
  - Medications
  - Tests
- Limited information
  - Facilities
  - Encounters
  - Procedures
- Uses SQL tables to pull data from Epic
- Can be aggregated and exported using additional Epic tools







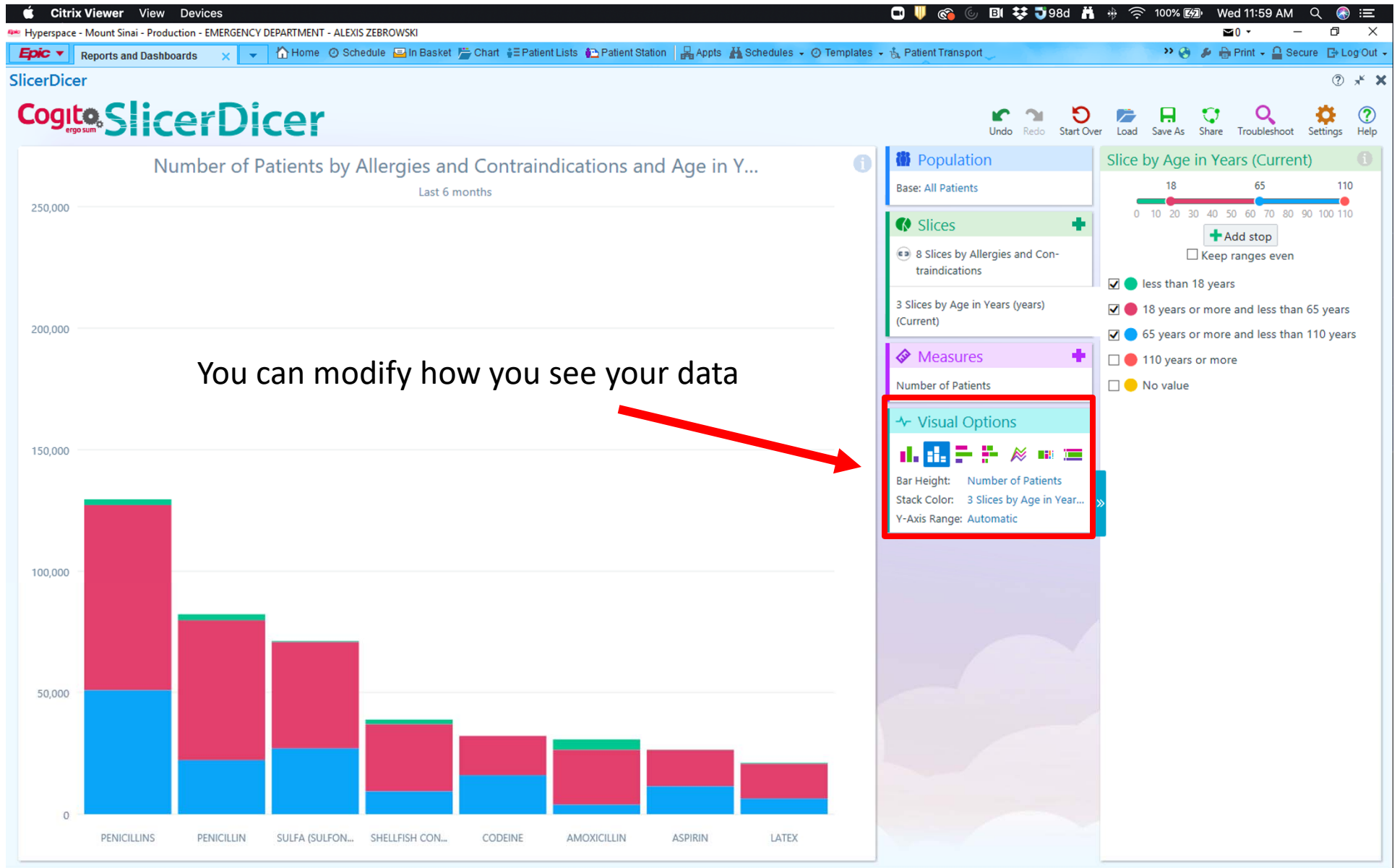
## Options for "slicing" the data

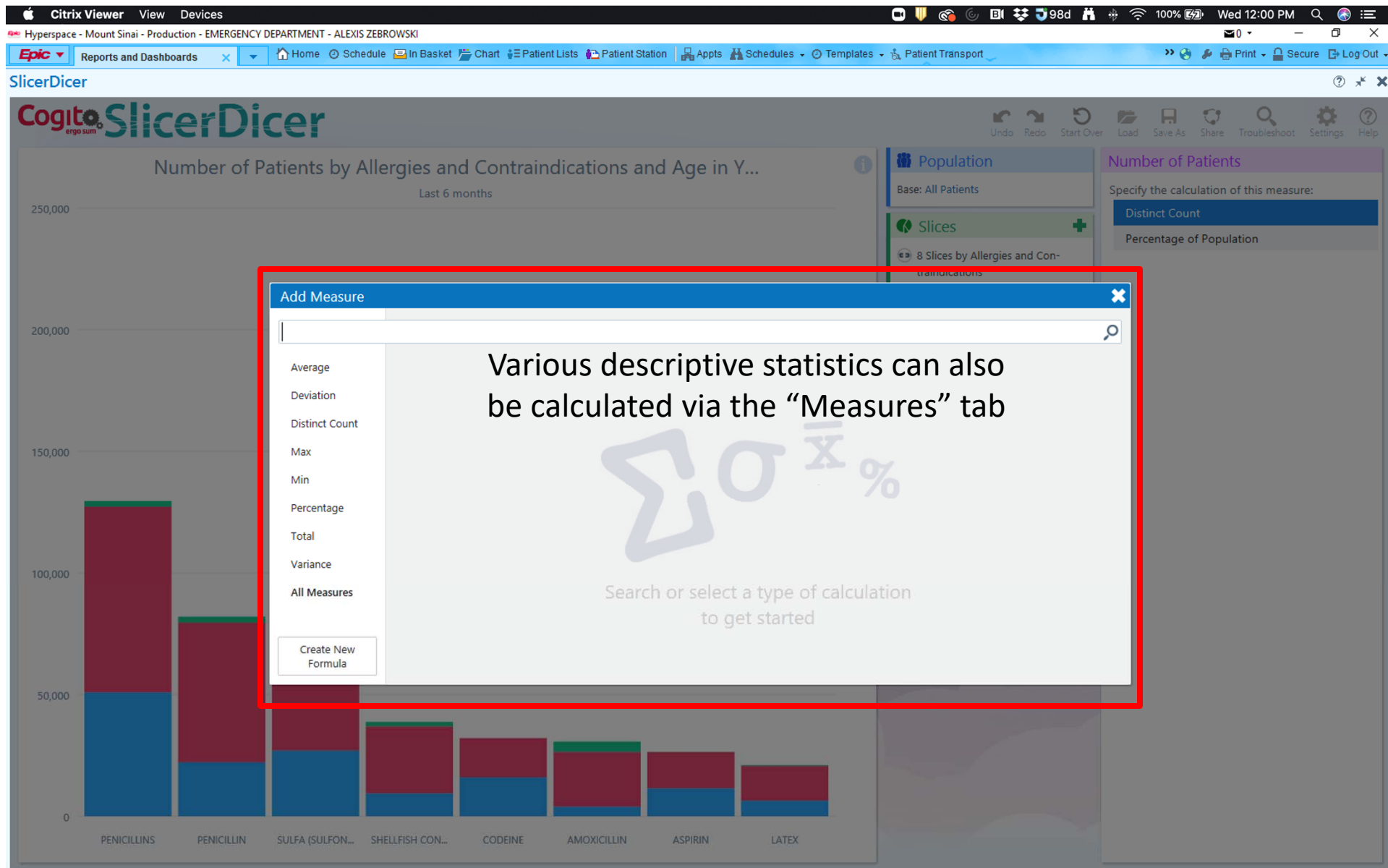
The screenshot displays the Epic SlicerDicer interface within a Citrix Viewer window. The browser address bar shows the URL: `https://hyperspace.mssm.edu/production/emergency-department-alexis-zebrowski`. The interface includes a top navigation bar with tabs for Reports and Dashboards, Home, Schedule, In Basket, Chart, Patient Lists, Patient Station, and Patient Transport. The main content area features a large chart titled "Number of Patients" with a y-axis ranging from 0 to 25,000,000. A red arrow points from the title "Options for 'slicing' the data" to the "Add Slice" dialog box, which is highlighted with a red rectangle. The dialog box contains a search bar and a grid of 15 slice options:

Add Slice				
Allergies and Contraindications	BPA Triggered	Care Team Specialty	Chief Complaint	Diagnoses
Encounters	Family History (Current)	Health Maintenance	Immunizations	Lab Components
Medications	Patient Demographics	Pregnant?	Procedures	Registry (Current)

The background interface also shows a "Population" panel on the right with a "Base: All Patients" dropdown and a "Slices" section with a "No Slices" message. The bottom right corner of the interface displays "Advanced Logic".







Citrix Viewer View Devices  
Hyperspace - Mount Sinai - Production - EMERGENCY DEPARTMENT - ALEXIS ZEBROWSKI  
Epic Reports and Dashboards Home Schedule In Basket Chart Patient Lists Patient Station Appts Schedules Templates Patient Transport  
SlicerDicer  
Cogito SlicerDicer  
Undo Redo Start Over Load Save As Share Troubleshoot Settings Help

### Number of Patients by Allergies and Contraindications and Age in Ye...

Last 6 months

	Number of Patients	
Aug 11, 2020 – Feb 10, 2021	12,115,468	All
AMOXICILLIN	30,693	
Age in Years < 18 years	4,274	
Age in Years 18 years to 65 years	22,538	
Age in Years 65 years to 110 years	3,878	
ASPIRIN	26,534	
Age in Years < 18 years	143	
Age in Years 18 years to 65 years	14,943	
Age in Years 65 years to 110 years	11,438	
LATEX	21,014	
Age in Years < 18 years	354	
Age in Years 18 years to 65 years	14,276	
Age in Years 65 years to 110 years	6,385	

Visual Options  
Section Value: Number of Patients  
Section Color: 3 Slices by Age in Year...

Export Patients to Excel  
+ Add Criteria  
Troubleshoot

From the "Number of Patients" option, you can export your data to RWB, look up charts, etc. for further investigation

Advanced Logic

# Epic SlicerDicer

- Pros:
  - No external costs
  - Easy to use
  - Quick
  - Great for first pass/feasibility
  - Can easily see how changing criteria impacts numbers
- Cons:
  - Limited ways to “slice” data
  - Accuracy may be reduced depending on question
  - Requires Epic access (read only is fine)
  - Best for small number of “slices” with specific inclusion/exclusion criteria



# Important to Remember

- How are you using the data:
  - Research requires an IRB!!!
    - Speak with research faculty about requirements
    - IRB determines if study is exempt
- Start with least amount of PHI necessary
- You are responsible for your data
  - Keep data secure (computer, email, drives)
  - Reported data must be aggregated for research purposes



# Next Steps

- Read and complete the attestation
- If you are unsure of how to proceed:
  - Submit a [request](#) to the EM Analytic Core
  - Review the tutorials
  - Discuss your project with a research faculty member
- Check out the research trainings offered

