



Analytics Overview

iNSIGHT and Epic tools



Agenda

- Introductions
- Big picture overview
- Tools and security:
 - iNSIGHT
 - Epic
- When do I use each tool?
- Wrap-up and questions

The Big Picture

Big Picture Overview

- Source systems
 - Children's has a number of “source systems” or data sources.
 - Epic is one of those.
 - We have many more!

Big Picture Overview

- Data can be pulled in a couple of ways:
 - You can pull data directly from the source systems.
 - Reporting Workbench and SlicerDicer are Epic reporting tool.
 - Data analysts can pull data from source systems and combine that data into custom data reports.
 - For example, I need to understand what patients have a Gtube that hasn't been removed. I need to know when the tube was placed, the tube type and the size of the tube.
 - Pulling from multiple fields in Clarity (Epic's name for their database).
 - Data from source systems can be transferred into our warehouse called an Enterprise Data Warehouse (or EDW).
 - Why would we do this?
 - The Analytics team acquires and transforms the source data into a format data analysts can access and query.
 - Data can be combined with other data sources or source systems.
 - For example, we need to know how the census (pulled from Epic) is going to match up with the nurse staffing levels (pulled from Maestro).
 - That reporting can be found on iNSIGHT.



iNSIGHT Overview and Access

iNSIGHT – Big Picture Overview

- iNSIGHT is a portal where custom reporting and applications can be viewed and run as needed.
- Two types of products:
 - Report Center reports. Custom created reports based on specific criteria.
 - Applications built for specific customer groups that allow for filtering data, understanding trends, volumes, etc.

iNSIGHT Access

- Access to iNSIGHT is driven by security.
 - CHW employees and providers (MD, APN, NP, Fellows) have access to the Report Center and the applications (after the appropriate education).
 - iNSIGHT Basic elearning is a requirement for access to the applications.
 - This can be found on Children's University (GNED54413).
 - MCW employees can receive access but there are a few additional steps:
 - Request access from our HIM department.
 - The form to request access can be found [here](#). Or, you can find it under Service Requests, then Information Services on Children's Connect.
 - Once approval is in place, complete the iNSIGHT Basic elearning.
 - This can be found on Children's University (GNED54413).




iNSIGHT Tools

iNSIGHT Tools

- Report Center

- Set up in a folder structure.
 - If you don't see a specific folder, you will not see it.
 - Most MCW reports are in the MCW folder.
 - Some may be in General or General-Secure.
- Reports can be searched using the Report Catalog.

R  Report Catalog ... A catalog of public reports in the Epic Environment and iNSIGHT's Report Center.

- Data is delayed one day – so you never see real time data.
- Data is created for a specific purpose. Requests for new data requests can be entered [here](#), but there is a vetting and prioritization process.
 - Each operational area has representatives that help the analytics team prioritize requests.
 - There can be a significant wait for these data analyst resources.



iNSIGHT Tools

- [Application Center](#)
 - More than 40 custom applications.
 - Access to some is controlled by the business owner or use case.
 - Data is delayed at least one day – so you never see real time data.
 - In some cases, the data is only refreshed weekly or monthly.
 - General access is granted to the following applications:
 - Ambulatory Operations Dashboard
 - Inpatient and Surgical Population Explorer
 - Inpatient and Surgical Cohort Finder
 - Surgical Services Explorer
 - Patient Flow
 - Hospital Acquired Dashboard
 - Emergency Medicine Explorer
 - Operational Metrics (open to everyone, no elearning training requirement needed!)



Epic Tools

Epic Tools

- Analytics Catalog – a one stop shop for searching analytics content within Epic.
- Different search functionality:
 - Dashboard.
 - Reporting Workbench report.
 - SlicerDicer model or shared report.

SlicerDicer Use Cases

- SlicerDicer allows you to pull customized patient populations.
 - This is not real time data.
- Utilize “models” to find the appropriate population. Most common models are:
 - Visits – all outpatient visits for ambulatory and CMG. EDTC visits are NOT in model.
 - EDTC Encounters – includes only EDTC encounters
 - Patients – UNIQUE patient counts.
 - Bedded Patients – all patients who have occupied or currently occupying a bed (could be observation, procedural short stay or inpatient).
 - Surgical and Invasive procedures – information related to surgical procedures.



Use cases for SlicerDicer

- This is a great tool to:
 - Explore a patient population.
 - Assist with prep for research – when you only need to get a ballpark number to understand if you have enough to consider joining a study.

Use cases for SlicerDicer

- I need to know how many patients had an appendectomy from 2013 - 2020.
 - You can do this in SlicerDicer, but the iNSIGHT application of Surgical Services Explorer pulls the same results!
- Turners' syndrome patients seen by endocrinology, cardiology and genetics.
 - Initially, this prep for research request was to include those on medication of somatotropin (growth hormones).
 - The data set was relatively small, so we took off that med filter to see all Turner's patients.
- Presence of fever in EDTC for Predictors of Severe Sepsis in Patients with intestinal failure (POSSIPIF).
 - This was prep for research request but a pretty complicated query.



Recap and Closing Thoughts

Recap - How do I know what tool to use?

- Think through what you are trying to find.
 - Looking for your **current patients** (“real time” data)?
 - Reporting Workbench.
 - A list of patients who have a specific disease **seen in the last 10 years** for a prep for research request
 - SlicerDicer or one of the iNSIGHT applications if appropriate.
 - A list of patients with a number of **different care criteria**, for example, I need to see all appendectomy patients with their last vital signs. I need to know when they were admitted and discharged, if they were readmitted. I also need to understand what medication they received and if they are still receiving any meds.
 - Custom report request.



Closing thoughts

- Think through what data you are trying to understand. That will help guide the tool selection.
- Remember not everything needs an exact number. If you are doing prep for research to determine if there are issues, 90% might be good enough.
- Using these tools takes practice.
- The proper IRB documentation should be in place prior to using the tools.

Need more help?

- There are training resources on the Training Center of iNSIGHT.
- There are Epic resources available on your Epic Learning Home.
- If you have questions on how to find data, the Analytics team offers Learning Labs twice a month. You can sign up and meet with an analyst to walk through your question. You can find the calendar in the [Training Center](#) on iNSIGHT.
- Questions can also be sent to insight@chw.org.

iNSIGHT Quick Links	
Application Center	Report Center
Quality Center	Finance Center
Training Center	About iNSIGHT

Need more help?

- What do I do if I don't have access?
 - Looking for access to iNSIGHT?
 - Request access from our HIM department.
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 - Once approval is in place, complete the iNSIGHT Basic elearning.
 - This can be found on Children's University (GNED54413).
 - Looking for access to SlicerDicer?
 - Call the Service Center 414-337-4357.
 - Ask for access to Epic's SlicerDicer. They will enter a ticket on your behalf and route it to the Epic build team.



Questions?