

Use Cases for Data Tools (e.g., cohort discovery and exploration)

SlicerDicer is a role-based self-service reporting tool that allows Maestro Care users to customize searches of large patient populations using data exploration tools. SlicerDicer allows you to choose and search specific patient populations to answer questions about diagnoses, demographics, procedures performed, treatments prescribed, lab tests ordered, etc. SlicerDicer can also provide rough counts of the number of patients who meet simple eligibility criteria.

You can also use **SlicerDicer** to do simple data searches of your own patients with queries such as “Of my patients who complained of headaches, how many have had a CT scan?”

SlicerDicer is designed to let you explore your hunches then refine and reformulate your searches on the fly so you may better understand your patient panels. It’s a great starting point for your research questions that may need further exploration with other Maestro Care reporting tools.

If you:

- Already have Maestro Care access
- Are only interested in Duke EHR data that currently exists in Maestro Care¹
- Are not interested in EHR data from other institutions
- Only need discrete EHR data²
- Are interested in summarized, trending data (not granular data³)
- Need “yes-no” data⁴ (have patients received their flu shots?)

then SlicerDicer is the right tool.

SlicerDicer Use Cases

Dr. Bailey has been approached by a pharmaceutical company about a study for adults with Type 2 Diabetes who

- Have been prescribed metformin with or without dipeptidyl peptidase inhibitors
- Have not been prescribed insulin
- Have a Hemoglobin A1C that has been greater than 7 but less than 9.5% at least twice in the past 24 months.
- Have a BMI between 25-45kg/m²
- Have had an ophthalmologic exam in the past 18 months
- Do not have retinopathy or maculopathy

Dr. Bailey and her study team need to complete a feasibility survey for the pharmaceutical company that includes an estimate of the number of patients who meet these criteria and have been seen at a Duke Primary Care Clinic in the past 18 months.

Dr. Yang is writing a grant to study a new treatment option for adolescents with sickle cell disease who also have pulmonary hypertension and reduced ejection fraction. She would like to know how many patients at Duke might meet these criteria so she can build an appropriate budget for her grant. She knows that she has many patients in her own clinic who meet these criteria but she is not sure if other providers are seeing similar numbers of patients.

Dr. Grey would like to know how many Duke patients with chronic kidney disease have not received their Hepatitis B vaccinations, which puts them at increased risk of liver disease. Two years ago, she noted that only a small number of her own CKD patients had gotten the HepB vaccine so she developed a departmental protocol and campaign to improve vaccination rates of her own patients and those of her clinic colleagues. She’d like to know how effective the protocol and campaign were at improving vaccination rates.

¹ Slicer-Dicer only has Maestro Care data, not pre-Epic legacy data

² Slicer-Dicer only has discrete data (e.g., data in discrete fields), not data that is only captured in notes

³ Granular data can be obtained but can’t be exported.

⁴ Some nuanced data (e.g., ranges) is available if it has been formatted correctly in the EHR (how many patients have a serum creatinine levels of 1.4-2.2mg/dL)