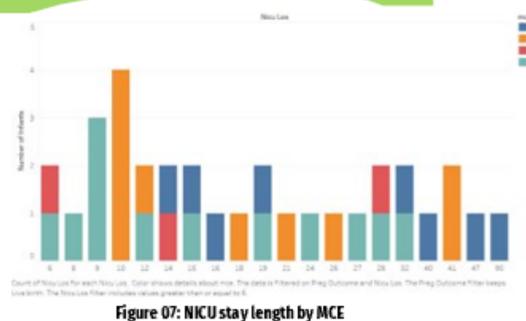


## Indiana Pregnancy Promise Program

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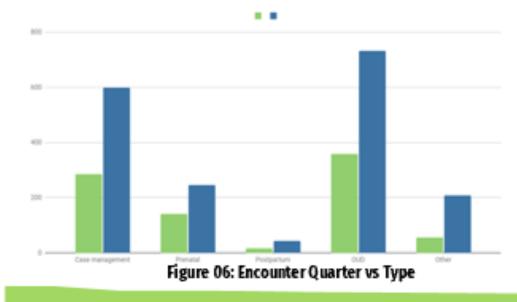
### MCE statistics

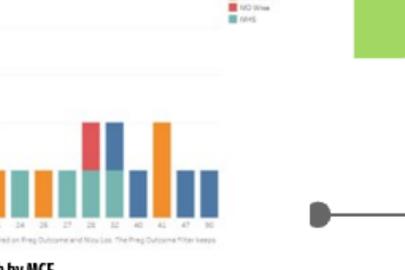
By breaking down infant NICU stay length by the respective MCE's, we hoped to gain an insight into accessability and affordability for mothers in Indiana.



### Resource Management and Distribution

#### **Encounter Quarter vs Type**







The IPPP is a free, voluntary program for pregnant Medicaid members who use opioids or have used opioids in the past.

# <u>Important?</u>

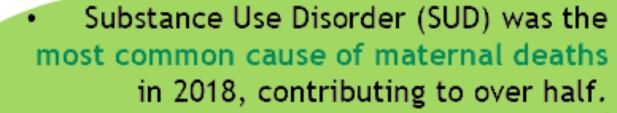
### Objective and Role

Our goal for this semester as the pilot program of the IPPP is to assist in it's aim to serve at least 2,000 pregnant individuals and newborns by 2025. Our student team utilizes data analytics for the FSSA Board to make informed decisions.

01

05

02



 The Maternal Mortality Review Committee deemed 87% of reviewed pregnancy related deaths preventable

Why is the IPPP

Treatment during pregnancy has a high chance of success

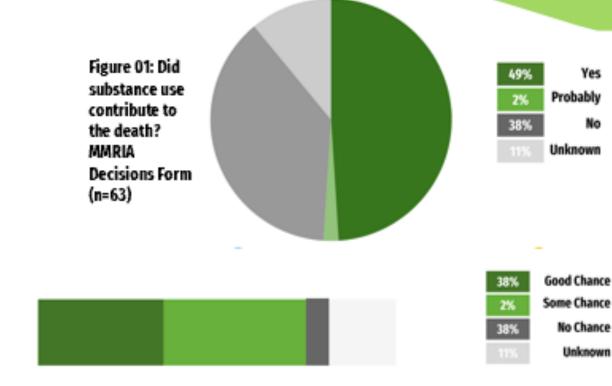


Figure 02: Chance to alter outcomes of all pregnancy-associated deaths had either a Good Chance or Some Chance to alter the outcome

# A large chunk of our analysis was directed towards exploring

participant diagnoses, encounter statistics and general effectiveness of the services offered by IPPP. This helps the FSSA allocate resources more effectively.

#### Behavioral Health Diagnosis of Participants

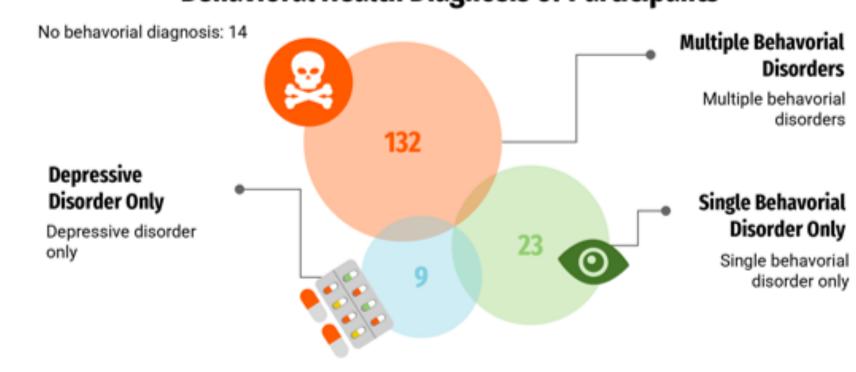


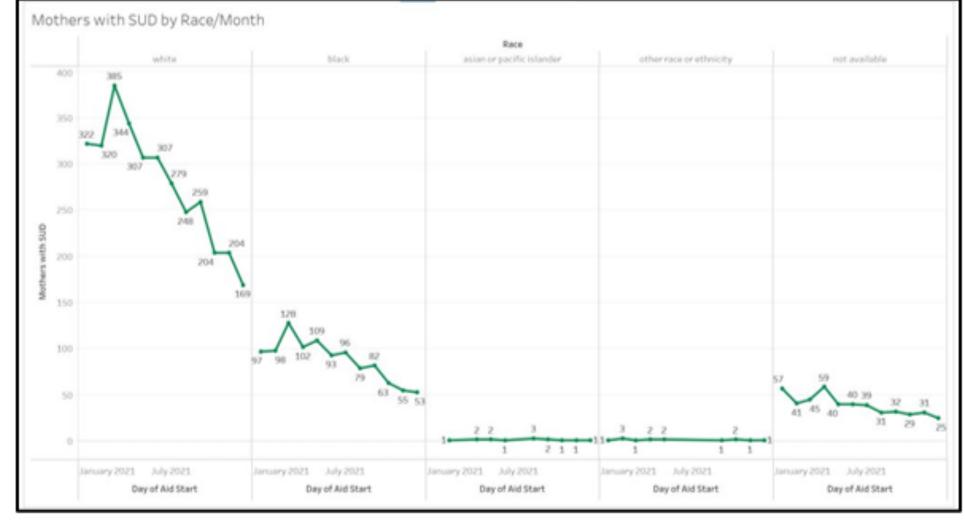
Figure 05: Behavorial Health Diagnosis of Participants

### Figure 2: Highest Level of Birthing Minute Drive Birthing hospital by level of care .... Highest level of car a 30 minute drive

Figure 04: Highest level of birthing care within a 30 minute drive

### Exploring Selective Effectiveness

Analyzing date-time trends between races in mothers with SUD helped us observe biases in the effectiveness of the Pregnancy Promise Program and steer it towards those demographics which lagged behind.



#### Figure 03: Mothers with SUD by Race/Month

### Methodology and Tech Stack

- Using Azure Virtual Desktop, we did most of our work with
- SQL on Azure Data Studio and
- Tableau for visualizations.
- Got new tasks via Azure Devops, work on it during lab
- Uploaded it to the Tableau dashboard for visbility

#### Conclusions

In conclusion we: Worked on and visualized data collected by the FSSA to help them create more dataintelligent decisions in furthering the outreach of their programs

#### Future Goals

Over the summer and coming semesters, we plan to:

Create and implement traditional Machine Learning models to predict growth

Complete the Tableau dashboard

Show our work in the form of solid deliverables

#### Acknowledgements

We would like to thank the FSSA, Cristian Guandique and Elizabeth Wahl for being awesome mentors, and Pallavi and Shuennhau for being awesome TAs I