Qingru Xu – Review of Group 23

Praise

1. Hi! I chose to review your project because it seems our group chose the same dataset as yours :). We may can communicate more on it.

2. This is a clinically very important area of research as the heart failure population is growing rapidly (expected to be over 8 million people in the US by 2030!)

3. The data is already cleaned, which is good because it will allow you to directly focus on the statistical analysis and the modeling.

Advise

1. As you mentioned, the dataset is small. Overfitting is easier to happen. Simper model may be better. And treat the outlier carefully.

2. "Check the model assumption". If it is a logistic regression you could restrict it to checking the independence of your observations' response variables and checking that there is a correctly specified mean model.

3. I think the dataset is already clean and organized well. There is no need to treat the potential missing data?

<u>Concerns</u>

1. Using only serum biomarkers as your main primary exposure may be not convincing. There may some strong intervention we need to explore. Providing some strong evidence why you choose this would be better.

2. Spend some time trying to figure out how to add data/make your models simple. Trying complex models with your current dataset might lead to frustrating results