Model Performance in Community Risk Reduction

SYMPOSIUM 2020

Predicting High Utilizing Patients

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MODEL PERFORMANCE IN COMMUNITY RISK REDUCTION

Carnac the Magnificent
We can use Data Science to better serve the community

- Reduce admin time identifying high utilizers
- Free up ambulance resources
- Patients receive the right care at the right time
We use many different attributes of patients in the model:

- Behavioral health
- Call patterns
- Demographics
- Insurance Status
- Hospital usage history
- Location
- Call acuity
- Medical conditions
Jenny is an example of a HUG patient

Jenny
- Born 1970, black, female
- Medical history: diabetes

2019 EMS history
- 76 calls (Jan-May)
- Breathing problem, congestive heart failure, and asthma

Past call history
- 2016: 51
- 2017: 39
- 2018: 106

What we know about Jenny from HUGs:
- 2 visits in 2018, 2 visits in 2019
Contact Information

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