Project Concept

Trauma Ready

Paramedics currently use a system of physical notecards to decide where to transport a trauma patient and at which activation level. Unfortunately, the criteria for transport is confusing and non-standardized at different hospitals around North Carolina. This forces EMTs to read through a series of checklists and facilities while in a high-pressure, time-sensitive environment.

Our application, Trauma Ready, will provide a reference for these teams in the field so they have easier access to information and can make fast, correct routing decisions. Its design focus is to be simple, intuitive, and accessible in all environments - particularly the dim lighting in the back of an ambulance or helicopter. The application will capture and present the trauma activation criteria, services available at select hospitals, and contact information to the trauma centers of those hospitals. Due to the fact that paramedics often find themselves in areas with poor internet connections, this information will be saved on the paramedic's mobile device, so that the application still performs its basic functions in such conditions. Trauma Ready will color-code the trauma activation criteria for different trauma centers where applicable. To maximize engagement, we will be developing cross platform with React Native, so that the application may function on iOS and Android devices. Lastly, as activation criterias change the information provided by the app will be easily updatable through an administrator web portal.

For Trauma Ready, we also hope to include the possibility of search queries, GPS location services, matching trauma activation criteria with services available at hospitals, and several other functions. The application should also provide the foundation to add more hospital activation criteria, such as that for strokes, and the foundation to add more regional trauma centers in North Carolina to the database from which the application pulls its data and updates can be made.