



Emergency Center Simulation and Modeling Case Study

Background

There is finally a way to predict outcomes in Healthcare. Being able to see your process changes and select best options before they are built is good for patient safety and cost. Summit OG's simulation and modeling program is dynamic and allows you to make real time decisions in your hospital. Clinics, E.C.'s and ancillary services will run smoother by getting the most from your Emergency Medical Record system.

- Dynamic Simulation for better and faster fact based decisions
 - o Bottleneck and resource analysis
 - o Integrated financial modeling
 - o EMR integrated
- Identification of the most efficient optimized process
- Valuable time savings
- Determination of the optimal resources to reduce costs

Objectives/Goal

Develop simulation/modeling program that pulls live data from healthcare management software.

- Allow Emergency Center Management to make real time decisions based on 3D model to compress, expand and move staff as needed to enhance patient flow
- Ability to utilize current and historical data to develop "what if scenarios" before changing current processes

Solutions

- Ability to develop "flags and signals" for afternoon surges through Emergency Center
- Ability to understand and predict volume changes and resource needs from ancillary departments and emergency center staff to reach the optimal cost model

Continued



Results

- Reduced wait times to less than 40 minutes
- Left Without Being Seen reduced to less than 1% with no additional beds or staff added to unit
- Staff redirection to other tasks when volumes are low
- Better understanding of needs from temporary staffing such as float pool

