Kishwaukee Hospital: OR Process Improvement Project

Project Objectives:
- Increase operating room utilization from 52% to 62% by April of 2015.
- Decrease time between hospital entry to incision from 133 minutes to 90 minutes.
- Decrease amount of time between cases from 33 minutes to <20 minutes

Design Tasks:
- Formulate a list of the top 20 surgeries performed at Kishwaukee Hospital
- Collect process times for each step in the Day Surgery process
- Fit process times to distributions to use in Arena simulation model
- Develop “what-if” scenarios that could improve OR process to test in simulation model.
- Perform comparative analysis on scheduled surgery times vs. actual surgery times.
- Develop Arena simulation model and test “what-if” scenarios.

Final Design:
- Utilize all operating rooms for surgery each day to reduce the amount of time between surgeries.
- Factor historical procedure times when scheduling surgeries to improve accuracy.
- Implement standardized work form for OR scheduling.
- More accurate scheduling will help reduce time patients are ready and waiting for surgery.

Team Members
Mike Gegner
Markie Hayes

Project Advisors
Dr. Gary Chen
Dr. Purushothaman Damadoran