Student Projects

1. Improved layout of waiting room at VA clinic. How to make it more efficient in use of space.
2. Inpatient room alarm system. Installed in new positive air pressure hospital rooms and this project analyzed the failure of warning systems related to room air pressure.
3. Floor plan redesign of radiology department. For speeding up visit time and to reduce wait time several analyses were done comparing patient and staff travel time.
4. Floor plan redesign of mammography area. To increase throughput alternatives were devised for the flow of work and reengineering of tasks.
5. Computer simulation regarding the effect of inpatient discharge time on ED and OR queues. Simulation models assessed the impact of different bed capacity and discharge time.
6. Lean study of patient transport processes. Identified what tasks were no longer needed in transporting patients within a hospital.
7. Pathology lab flow improvement.
8. Real estate study for clinic relocation. Determine best location based on multi attribute comparison.
9. Cost effectiveness analysis of new GI equipment. Return on investment.
10. Time study of VA clinic to reduce wait time
11. Revenue cycle work flow analysis
12. Analysis to find best location for new outpatient clinic. To accommodate increased volume.
13. Nursing home staffing related to quality measures
14. Bed turnover time improvement. Workflow redesign.
15. Revision to doctor order forms to reduce errors. Redesign forms.
16. Radiology film location system. To reduce errors, missing materials.
17. Revision to ER triage workflow. Queuing study.
18. Study of pharmacy & inpatient discharge orders. To reduce delays for inpatient discharge times.