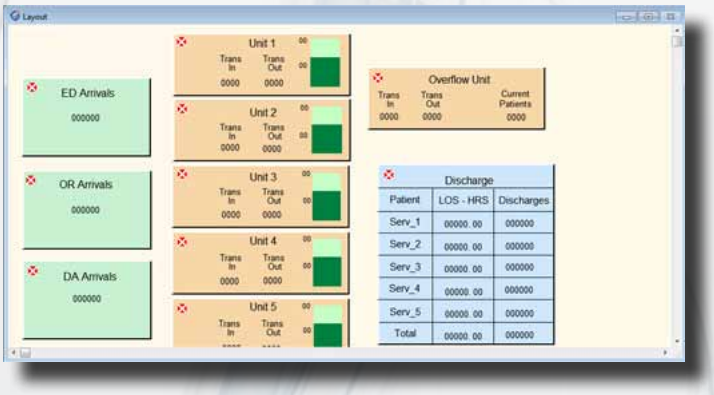
Patient Flow SIMULATOR

Overview

A sound strategic plan focused on optimizing overall patient flow throughout your hospital is imperative to the long term profitability of the organization. Mergers and acquisitions, Accountable Care Organizations, rapidly changing reimbursement, shifting locations of care, changing demographics all converge to make a sound strategic plan daunting for senior leadership. Traditional analysis tools often fall short of capturing all these complex variables. Promodel's Strategic Patient Flow Solution provides you with a single high level decision-support tool for strategic and tactical planning of key resources associated with hospital wide patient flow.

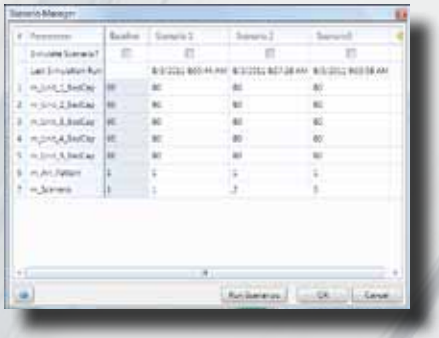
1 Visualize

Understand the current state of patient flow over time. View current admission sources, unit volumes, historical LOS, ED diversion, bed placement rules and non-optimum care patient volume.



2 Analyze

Easily create 'what-if' scenarios. Experiment with any type of patient demand situation, reconfigure unit types by changing mix of general beds, high value beds (critical care) and resources. Incorporate costs and revenue by DRG mix. Rapidly evaluate the impact of these changes within the context of your strategic business plan.



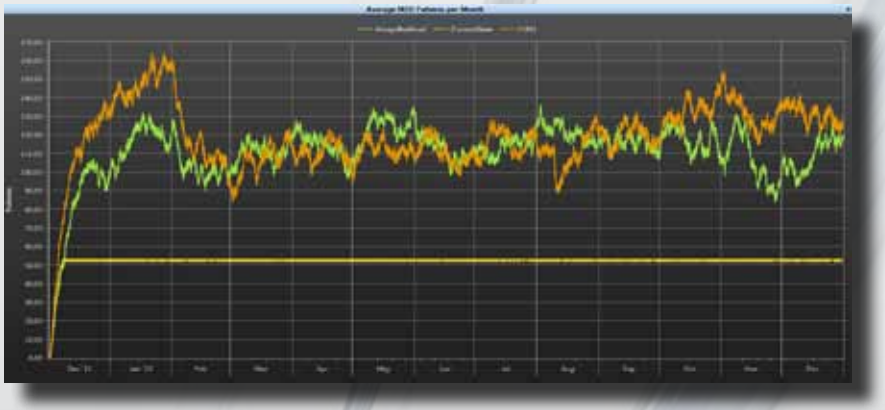


Chart shows total number of patients in MED Service.
Yellow = Current State
Green = Unrestricted to show capacity
Orange - Same as green with 20% patient increase

3 Optimize

Optimize future bed utilization and understand future peak census patterns to avoid Emergency Room diversions. Minimize unnecessary capital expenditures by ensuring your hospital has the right configuration of beds well into the future. Forecast profitability and create a strategic master plan for your healthcare system.

ProModel

VISUALIZE ANALYZE OPTIMIZE VAO

Rapidly Evaluate the Strategic Master Plan for Your Hospital with ProModel's State of the Art Analysis Tool:

Issues

Effecting Your Bottom Line:

- More ICU, PACU, telemetry beds?
- What profitable service lines will sustain the organizations growth?
- When will peak census impact bed availability?
- Changing bed capacity in my region (hospital closure)
- Changing patient demographics & core locations

Input

Clinical Services by patient type and DRG grouping:

- Medicine Service
- Cardiology Service
- Ortho Service
- Neuro Service

Other parameters Including:

- LOS
- Bed capacity for each service
- Specific contribution margin by patient
- ADT Data (Admission, Discharge, Transfer)
- Patient transfer rules

Patient Flow Simulation

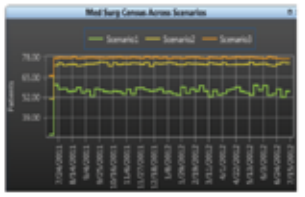
Healthcare Enterprise Logistics Planning

- Create and change scenarios to analyze future Institutional effect.
- Vary admission points, numbers of transfers and discharges - in one analytical tool.
- Examine future patterns of bed occupancy by clinical service.
- Test impact of additional beds by bed type
- Quantify the effect of multiple transfers on overall throughput
- Assess staff requirements with changing volumes and acuity (FTE/occupied bed)

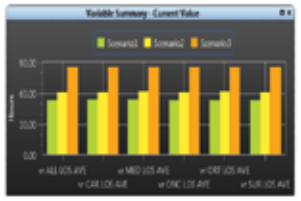
Answers:

Reduce capital expenditures, Improve patient flow to increase profit margins:

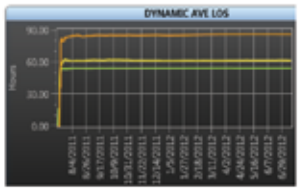
- What are the right numbers of high value beds (PACU, ICU, CCU, Vents)
- Changes in patient acuity and its effect on census
- Effect of changes in types of services
- Predict episodic changes (seasonality, emergent surges)
- How do points of admission affect patient flow (ED, clinics, scheduled surgeries, etc)
- How can institutions synchronize scheduling in clinics and surgery



Dynamic Bed Utilization Over time Comparison



Average LOS Comparison



Dynamic LOS Over time Comparison