

Allscripts Staff Planning

Predictive Analytics for Operational Efficiency

With labor spend at more than 50% of revenue at most hospitals, inefficient schedules have a significant impact on the bottom line. Yet optimized staffing plans are notoriously difficult to create and optimize. As a result, hospitals see excessive idle time and overtime, mismatched surgical teams and delays caused by insufficient coverage - all while staff satisfaction suffers.

Allscripts Staff Planning optimizes staff schedules for surgical teams in the perioperative suite. By using sophisticated forecasting and optimization models, the module has the potential to help hospitals realize annualized savings from reduced idle time and overtime costs, as well as improved staff satisfaction from optimized matching to qualifications, availability and team preferences.

This module optimizes shift schedules and streamlines shift assignments to ensure the best deployment of resources based on surgical demand patterns, staff availabilities, and staff qualifications. These tools, as well as staffing gap analysis tracking, can dramatically reduce labor costs.

Allscripts Staff Planning is part of the Allscripts Predictive Analytics suite, powered by Hospital IQ's cloud-based predictive analytics platform. Hospital IQ's data-driven solutions empower hospital leaders to optimize efficiency by systematically aligning resources – such as staff, operating rooms and inpatient beds – with actual and predicted patient flow. Other modules include Surgical Planning, Capacity Planning, Census Forecasting and Elective Smoothing.

STAFF TO MATCH SURGICAL DEMAND

To avoid excessive idle time and overtime, the staff schedule should fit surgical demand like a glove. The Staff Planning module makes this easy. You can define the roles relevant to your hospital, such as Scrub Nurse and Surgical Tech, and specify rules, including how many of each type are needed based on case characteristics, equipment, qualifications, etc., and Allscripts Staff Planning does the rest, calculating specific staffing needs at 15-minute intervals.

SEAMLESSLY INTEGRATE WITH EXISTING SCHEDULING SYSTEMS

Once staffing needs have been identified, the Staff Planning module recommends optimized staffing scenarios under various conditions, like staffing to different percentiles of forecasted demand or with various shift start times and lengths. You can evaluate savings across these scenarios, and even compare them with your own manually crafted ones.

OPTIMIZE SHIFT ASSIGNMENTS FOR STAFF SATISFACTION

The Staff Planning module features an “auto-assign” button, making the shift assignment process—which might take a scheduler days to perform—a single click activity. These assignments are optimized using a highly robust matching model that accounts for a hospital's rank-ordered preferences for seniority, team fit, qualifications, availability, and

Predictive Analytics Modules

- Surgical Planning
- Staff Planning
- Capacity Planning
- Census Forecasting
- Elective Smoothing

Overview

- Recommends specific shifts, by roles and qualifications, based on historical or forecasted demand
- Compares recommendations to existing manual schedules, both retroactively and prospectively
- Automatically assigns staff to shifts based on customizable matching preferences
- Performs ongoing gap analysis from when the schedule is published to ensure coverage remains adequate in the face of shifting demand

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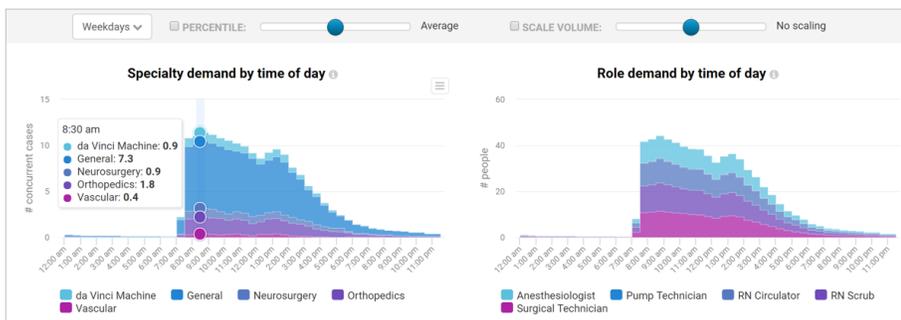
many other factors. Over 30 dimensions are considered. The module also provides the flexibility for manual shift assignments with rank-ordered guidance on matches.

ONGOING GAP ANALYSIS

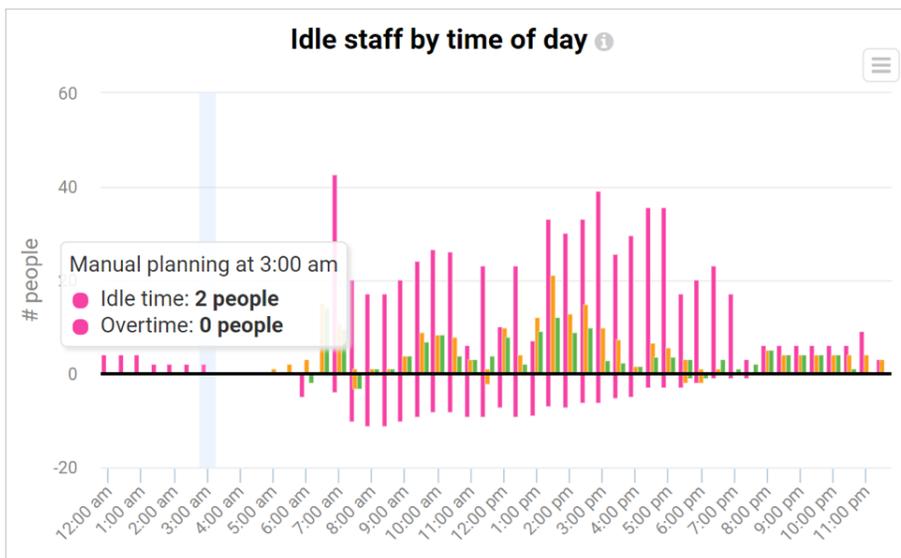
Hospitals typically publish schedules weeks in advance, and in the interim both anticipated surgical volume and staff availability may change. The Staff Planning module looks ahead at these changes and provides both high-level and detailed guidance on staffing gaps, alerting you to over and under conditions long before the day of surgery, helping avoid day-of-scheduling hassles and surprises.

SEAMLESSLY INTEGRATE WITH EXISTING SCHEDULING SYSTEMS

Allscripts Staff Planning provides a value-added layer on your existing time tracking tools such as on your existing time and attendance solutions. The Staff Planning module integrates with these systems, allowing you to exchange both staff preferences and shift assignments easily.



Staff Planning Demand Visualizations
Show how case volume maps to staff



Idle staff by time of day
Alternative staffing plans can easily be compared