

Allscripts Census Forecasting

Predictive Analytics for Operational Efficiency

Mismatches between inpatient census and staffing levels negatively impact a hospital's bottom line, patient care, staff satisfaction, and staff retention. The inability to anticipate and staff up to meet peaks in census leads to long ED/PACU wait times, lost revenue from ambulance diversions and patients leaving the ED without being seen, costly staffing overtime, and suboptimal patient-to-nurse staffing ratios.

Allscripts Census Forecasting offers a "crystal ball" to nurse managers, patient flow directors, and operation leaders with up to 7 days of forecasts of unfulfilled bed requests, location-specific census, boarders, and misplacements. These actionable forecasts can be used for proactive scheduling and prioritized discharging, leading to reduced overtime, ED/PACU boarding, and ED diversions.

With Allscripts Census Forecasting, your hospital can harness powerful predictive capabilities through an intuitive interface. Weekly forecasts are always a single-click away.

To make accurate predictions, disparate data sources are automatically pulled together, including:

- Weather forecasts
- Regional holidays
- Surgical conferences
- National length-of-stay data
- Historical hospital performance

Allscripts Census Forecasting 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 Staff Planning, Capacity Planning, Surgical Planning and Elective Smoothing.

ANTICIPATE FUTURE INPATIENT CENSUS HOTSPOTS

Allscripts Census Forecasting quickly integrates data from Sunrise and external sources (weather forecasts, surgical conferences, etc.) to predict patient arrivals and care pathways. This enables clinical and operational leaders to anticipate and proactively address census fluctuations at precise locations and times.

MANAGE CENSUS PROACTIVELY INSTEAD OF REACTIVELY

Allscripts Census Forecasting empowers inpatient operational leaders to take action days in advance rather than reactively scrambling to accommodate spikes in demand. For example, tomorrow's bed requests (by level of care) are estimated today. This improves clinical and financial performance by reducing overtime, maintaining appropriate patient-to-nurse ratios, and minimizing lost revenue from unmet patient demand.

Predictive Analytics Modules

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

Overview

- Interactive dashboards with current and future census, wait times, and misplacements
- Predicts future census and occupancy, hour-by-hour, for days into the future
- Offers a bird's-eye view of current and future census across the hospital, with the ability to drill down to levels of care, units, and even sub-units.
- Calculates grades to objectively rank various potential courses of action
- Generates specific, actionable recommendations to improve outcomes

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TEST “WHAT IF” SCENARIOS

The built-in recommendation engine quickly illustrates the most effective courses of action for addressing predicted future census peaks, such as rescheduling elective surgical admissions, proactively discharging, and transferring patients between specific locations. Managers can then use Census Forecasting’s simulation engine to quickly test the outcome of implementing these recommendations or other possible courses of action.

COMPARE INPATIENT FLOW SCENARIOS TO MAKE OPTIMAL CHOICES

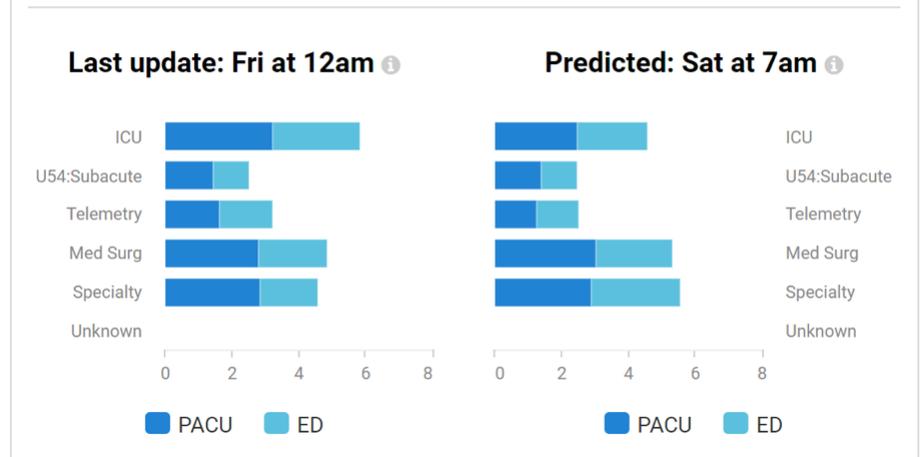
Based on the simulated outcomes resulting from various potential courses of action, Allscripts Census Forecasting generates scores and performance metrics for each scenario, making it easy for decision makers to compare and assess the impact of scenarios side-by-side.

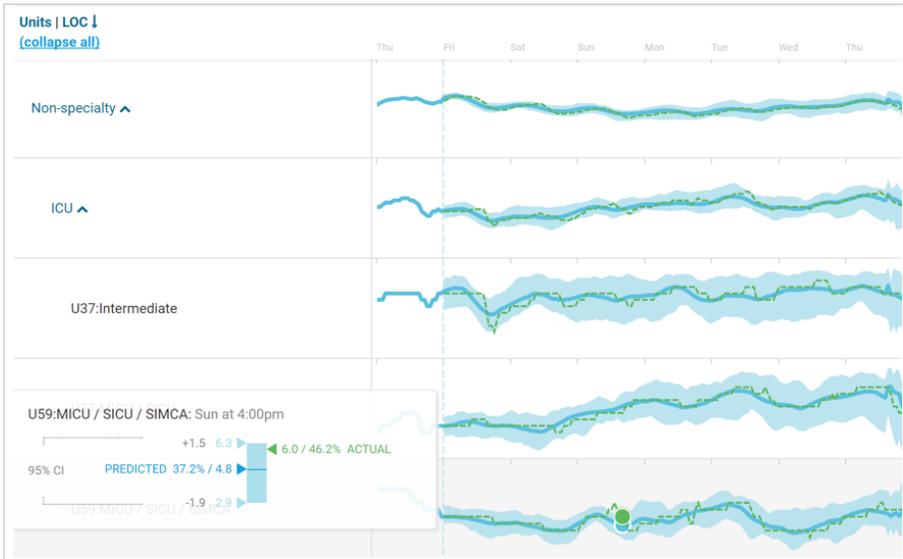
SEE THE CLINICAL AND OPERATIONAL IMPACTS OF POTENTIAL CHANGES

For each potential course of action, Allscripts Census Forecasting uses simulations and prediction algorithms to generate outcomes—including clinical and financial performance metrics—empowering managers to choose an action plan that balances tradeoffs including staffing levels, wait times, and occupancy.

Census Forecasting Requests
Current and forecasted outstanding bed requests are displayed side-by-side

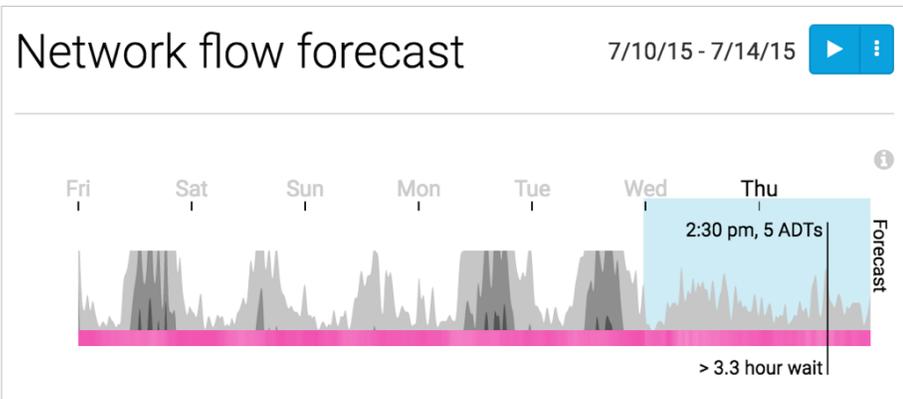
Unfulfilled overnight bed requests





Census Forecasting Details

Census forecasts are available hospital-wide with drilldown capability into specific locations within a hospital



Census Forecasting Flow

Census forecasts are available hospital-wide with drilldown capability into specific locations within a hospital

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