HealthStream™

Capacity & Resource Advisor

Forecast Demand and Increase Capacity with Data You Can Trust

Match Patients with Staff for Proactive, Patient-Centered Care

Improving patient outcomes should always be the top priority for health systems. Yet most systems face unprecedented pressure to spend less while providing quality patient care.

As labor costs comprise nearly 60% of a typical U.S. health system's total expenses[1], closely aligning staffing and capacity with predicted patient demand can significantly shrink operating costs.

Capacity & Resource Advisor uses trustworthy data to help health systems manage demand and increase efficiency. Instead of relying on manual tools and anecdotal information, the solution delivers accurate insights that help managers match the right staff to the right patient at the right time. By promoting proactive work practices that center on patient safety, your leaders can improve employee satisfaction while increasing unit productivity.

Capacity & Resource Advisor combines industry-specific algorithms, structured clinical input, and historical ADT data to accurately forecast patient demand. Using predictive analytics, your organization can minimize overtime and reduce agency costs by proactively aligning staff with predicted patient demand.

Real-time updates empower staff to adjust assignments as necessary to support improved patient flow. Capacity & Resource Advisor helps your health system provide a safe, efficient patient journey.

Customer Results

44% reduction in surgical unit overtime, from 7.9% to 3.5% of productive hours

3% reduction in nursing hours per patient day (NHPPD)

$2.7 million reduction in staffing costs over three years

—Vancouver Coastal Lions Gate Hospital North Vancouver, British Columbia, Canada

12% reduction (half a day) in average length of stay (ALOS)

—AnMed Health Anderson, South Carolina

[1] AHA analysis of 2015 Centers for Medicare and Medicaid Services inpatient market basket update projections, using base year 2010 weights (most recent available).

Optimize Your Patient Flow

View Multiple Horizons

With Capacity & Resource Advisor, your staff can use the full spectrum of demand forecasts to develop strategic plans (3-5 years), budgetary plans (1-2 years), scheduling plans (1-4 months), and operational plans (1-7 days).

Use Flexible Scenario Modeling

The tool allows your organization to assess the anticipated impact of operational or service changes, as well as seasonal events. By adjusting variables such as ALOS or inpatient/outpatient mix, you can better predict and align resources to build capacity.

Track Actual Performance

Capacity & Resource Advisor lets your staff proactively monitor actual vs. projected patient activity, including arrivals and departures. With full visibility into current capacity and demand, staff can make proactive adjustments to meet discharge targets.

Boost Predictive Accuracy

Capacity & Resource Advisor uses historical ADT data, clinical expert input, and algorithmic forecasting to achieve impressive predictive accuracy. The product provides a patient demand forecast with a 95% accuracy rate one month out and 97% accuracy one week out. As the tool is easy to configure, Capacity & Resource Advisor can be used to meet the planning needs of individual cost centers, groups, and specialties.

Additional Capacity Management Solutions

Capacity & Resource Advisor works alone and in concert with these solutions:
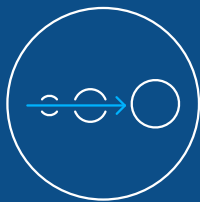
Executive Capacity Management Dashboard

Designed for hospital leaders and senior managers, the Executive Capacity Management Dashboard provides a mobile-enabled view of demand and capacity, showing current performance against configurable key performance indicators related to resources (beds and staff) and patient flow.

Enterprise Visibility

Real-time displays help staff monitor patient movement from admission to discharge, accelerating patient flow for a safe, efficient journey.

Workforce Management

This solution suite aligns predicted staffing needs with patient acuity forecasts and safe, equitable workload assignment. Workforce Management ensures regulatory and contractual compliance while improving staff satisfaction and retention.

17 Healthcare-Specific Algorithms

Real-Time and Historical Clinical Data

Multiple Time Horizons (from 1 Day to 3+ Years)

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