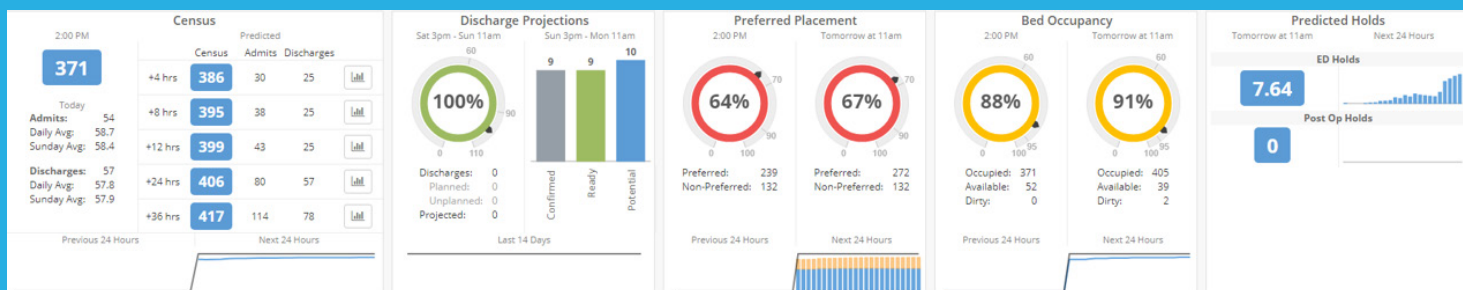**Continuous Predictive & Prescriptive Patient Flow**

The Future of Patient Flow Analytics

FutureFlow Rx® is a patient flow predictive analytics platform that models and displays a hospital's current state, predicts likely futures, and provides corrective action options.

Continuously-Updating Predictive Dashboard

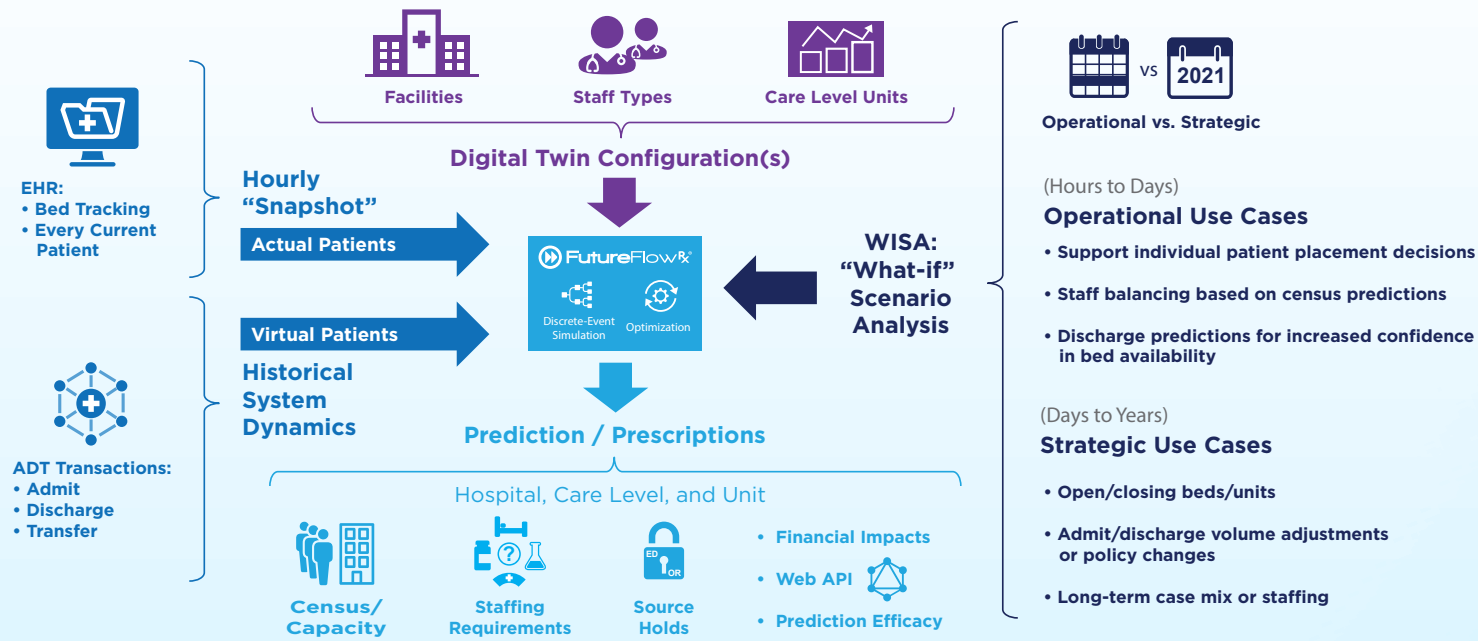# Statements from Seattle Children's Hospital

"Integrating FutureFlow Rx into our Inpatient Access and Flow work-streams has really supported a smooth, functional, and most importantly effective process for proactively managing census during an especially challenging flu season. Diversions are down, and so is the general level of anxiety around decision-making. Fewer ad hoc huddles, more standard work with established guide rails and actions."

Ruth McDonald
MD, Assoc. Chief Medical Officer
Seattle Children's Hospital

"By providing accurate projections of staffing needs, FutureFlow Rx informs daily challenges faced by every hospital with timely and detailed information."
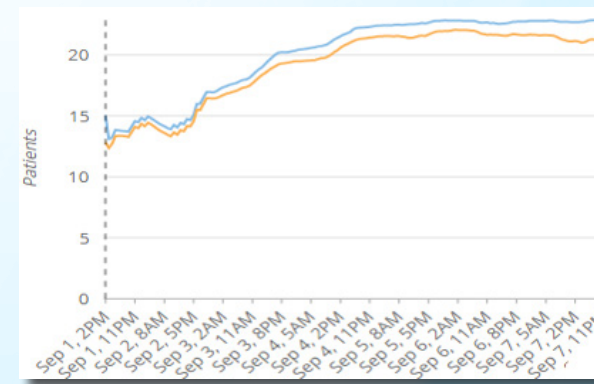
Susan Geiduschek
RN, DNP, Sr. Dir,
Assoc. Chief Nurse,
Seattle Children's Hospital
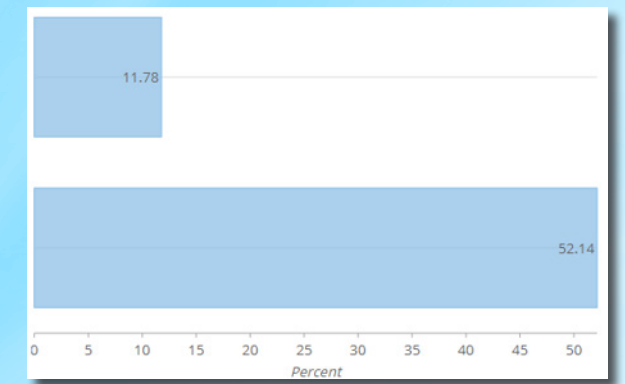
System Overview & Features

Digital Twin Configuration(s)
- Facilities
- Staff Types
- Care Level Units

EHR:
- Bed Tracking
- Every Current Patient

ADT Transactions:
- Admit
- Discharge
- Transfer

Hourly "Snapshot" — Actual Patients
Virtual Patients
Historical System Dynamics

FutureFlowRx
Discrete-Event Simulation · Optimization

WISA: "What-if" Scenario Analysis

Prediction / Prescriptions

Hospital, Care Level, and Unit
- Census/Capacity
- Staffing Requirements
- Source Holds
- Financial Impacts
- Web API
- Prediction Efficacy

vs 2021
Operational vs. Strategic

(Hours to Days)
Operational Use Cases
- Support individual patient placement decisions
- Staff balancing based on census predictions
- Discharge predictions for increased confidence in bed availability

(Days to Years)
Strategic Use Cases
- Open/closing beds/units
- Admit/discharge volume adjustments or policy changes
- Long-term case mix or staffing

Business Rules / Scenarios

Flow & Facilities Editor

Patient Visual Flow

What-If? Scenario Analysis

Before Prescription

Baseline 100 rep

After Prescription

ZBase with Staff Call In & Low Acuity Directed Placements

Example Metrics of Success

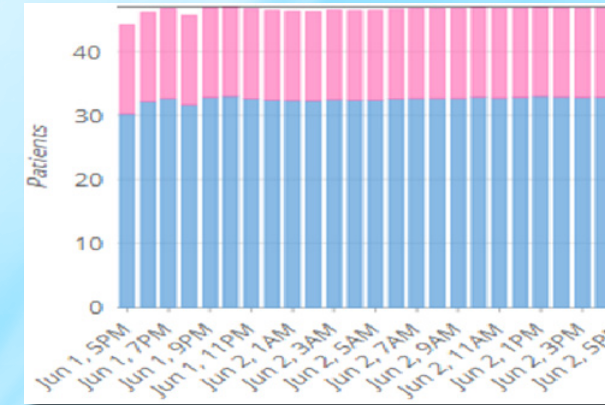## Staff / Resource Requirements

Future Provider Required

Source Holds

Future ED Hold Service Level

Detailed Analytics

Future Preferred Placement

Financial Impact

2 Week Profit per Scenario
— Before Prescription
— After Prescription

Future Profit by What If
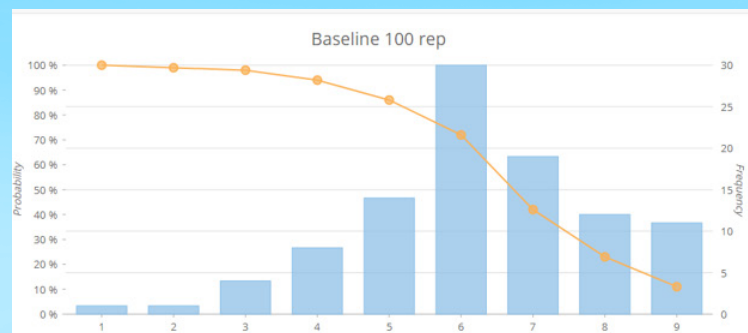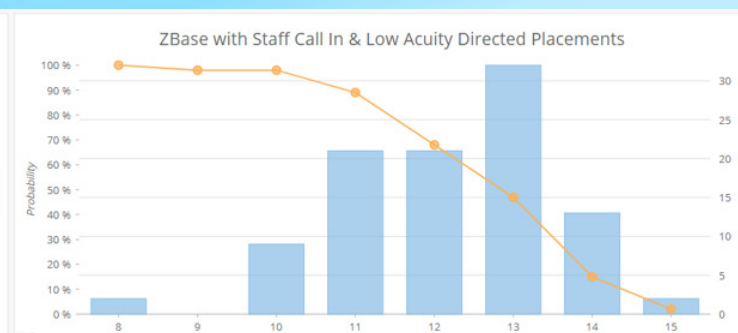
Capacity Analysis

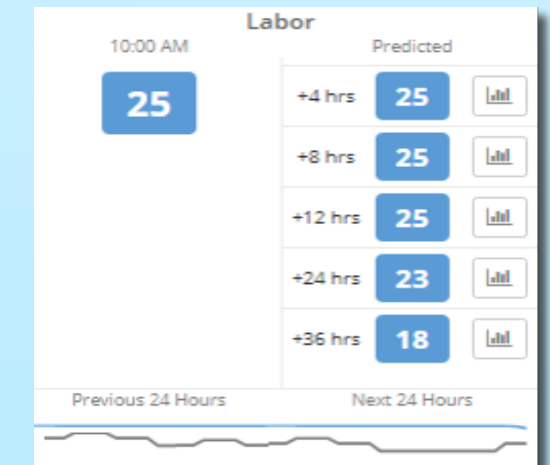Frequency · Probability
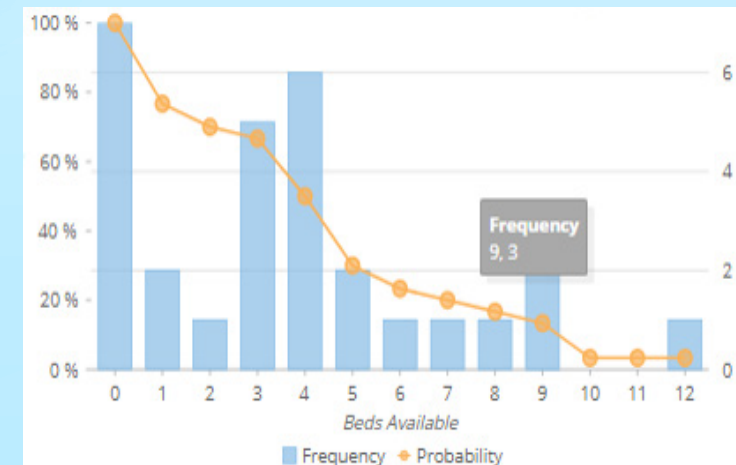
Future ICU Capacity

Predictive Dashboards

Future Unit Census

Objectives:

Continuously predicting census, capacity, and staff

Digital twin Of your hospital ready for guided experimentation

FutureFlow Rx Works Across All Device Types

Demonstrated ROI

- Decreased missed opportunities (MO) by 28%
- Reduced acuity level of MO's
- Incorporated CAP-ACT into directed placements process
- Eliminated twice daily surgical flow and access huddles
- Multi-million dollar net marginal impact

Impact on Hospital Operations and Decision Making =

- Improve ADT decisions
- Proactively plan for staff schedule changes
- Early warning system for census / capacity
- Provide actionable What-if? analysis capability

Use Cases

- Predict patient census by hospital or unit by flexible time frame
- Capture real-time and predict capacity by unit and service
- Capture and predict off-service placement
- Predict and manage discharges
- Capture and predict accurate bed count
- Predict ED and PACU hold by flexible time frame
- Predict emergency admissions

PF2102

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Better Decisions—Faster