



Nirav V. Kamdar, MD

Vice President, Quality Improvement and Clinical Operations, Huntington Health

Situation Analysis

To improve hospital-wide patient flow, Huntington Health implemented a strategy called real-time demand capacity (RTDC). Several studies have cited the positive effects of RTDC implementation including one by the Institute for Healthcare Improvement (IHI), which had brought together several hospitals to test the approach.

Project Goals



Accurately predict inpatient bed capacity and demand, achieving a 70% RTDC within 12 months.



Increase number of patients discharged by 2 p.m. by 10%.



Decrease emergency room diversion by less than 15%.

Actions Taken

- Used IHI's improvement methodology to implement RTDC.
- Deployed multiple PDSA cycles for 12 months.
- Created statistical process control diagrams to monitor improvement during the PDSA cycles.

Positive Outcomes

- RTDC prediction accuracy reached 70% in May 2024, with an average of 62%.
- Early hospital discharges increased by 26%.
- RTDC as a downstream strategy assisted to decrease ER diversion by 78%.

For detailed information, visit:

www.aha.org/center/next-generation-leaders-fellowship