

Healthcare organizations face critical challenges in delivering quality patient care. Clinicians are awash with data from multiple non-integrated sources – in-room monitors, the EHR, and other systems collecting data. Clinicians have to manually traverse these sources to obtain a complete picture of the patient's condition and care journey. The lack of "complete patient picture", hinders the care team's ability to detect complications and at-risk patients early, which can lead to Failure-to-Rescue events.

Continuous Surveillance and Electronic Triage

InsightIQ™ provides continuous critical-condition surveillance, with evidence-based algorithms (digitized protocols) to help the care team detect signs of clinical decompensation that could be life threatening or warrant urgent transfer to a higher level of care. InsightIQ™ assists clinicians to prioritize attention to patients at-risk of maternal complications tackling factors such as post-partum hemorrhage, severe hypertension, pre-eclampsia, eclampsia and medication management.

The Unit View displays a grid of 14 patient beds. Beds 02, 08, and 10 are highlighted in red, indicating potential issues. Bed 02 has a Hypertension alert (HR: 88, BP: 137/119). Bed 08 has an Oxytocin alert (HR: 127, BP: 65/81). Bed 10 has a Hemorrhage alert (HR: 63, BP: 117/70). Beds 01, 04, 06, 07, 11, 12, 13, and 14 are marked as empty.

The **Unit View**, the typical landing page for clinicians, shows all patients beds within the unit.

- Continuously surveils and assists clinicians to triage all patients with clinically validated protocols.
- Digitizes peer-reviewed or hospital specific protocols of care to optimize clinical workflow and improve guideline compliance.
- Helps clinicians to prioritize attention to at-risk patients (highlighted as "red" or "yellow").

In this **Unit View**, three patients have been identified with potential issues due to Hypertension, Hemorrhage or medication management (highlighted in red). Clicking on any of those patients, will take the user to a detailed Patient View of that patient.

The Patient View for a postpartum patient shows a Hemorrhage bundle in red and a Hypertension bundle in green. Vital signs include HR: 150, BP: 97/55, and Temp: 96.8. Lab results show Heme: 7.9, Glucose: 83, and PTT: 36.8. A graph shows Total QBL Calc (1015ml) over time, and another graph shows SBP/DBP over time.

The **Patient View** enables situational awareness at-a-glance during time-sensitive critical situations.

Smart alerting, based on your hospital guidelines, can lead to earlier recognition of adverse events, prompt intervention, and improved protocol compliance.

- Color coding of lab results, vitals, and protocol status. Yellow and Red items require immediate intervention.
- Reduces click fatigue through a consolidated view of patient status on patented dashboards and critical condition decision support configured for each clinical specialty.

In this example of a postpartum patient, the hemorrhage bundle is red because the Quantitative Blood Loss (QBL) is more than a liter in the last 2 hours, and the patient's vital signs are trending in the wrong direction, which means the patient is most likely actively bleeding.

Integration and Implementation

InsightIQ aggregates data from multiple sources - EMR, pharmacy, and various sources of patient data into a unified data platform. Implementation of DECISIO platform can be accomplished in weeks. DECISIO can help the overburdened hospital IT team with data integration and implementation activities.

Client Outcomes*

| Hypertension | Before InsightIQ | After InsightIQ | Improvement |
|---|--------------------------|-------------------------|---|
| Hypertension Med Order Set Documentation | 18% (Sept - Oct) | 99.6% (Nov – Aug) | ~455% increase in Order Set Documentation |
| Patients given Blood Pressure Medication within 1 hour | ~69% (July - Oct) | ~86% (Nov – Aug) | ~19% increase in medication administration within 1 hour |
| Average time from Hypertension designation to Medication Administration | ~55 minutes (July - Oct) | ~30 minutes (Nov – Aug) | ~46% reduction in average time to medication administration |

| Hemorrhage | Before InsightIQ | After InsightIQ | Improvement |
|--|---------------------|---|---|
| Delivery QBL Documentation | 26% (July - Nov) | 84% (Dec – Aug) Consistently 90% since March | 222% increase in Delivery QBL documentation |
| Total QBL Documentation | 36% (July - Nov) | 90% (Dec – Aug) | 151% increase in QBL documentation within 1 hour |
| Patients with ≤ 1000 mL QBL documented | ~31.8% (July - Nov) | ~83% (Dec – Aug) | ~160% increase in patients with ≤ 1000 mL QBL documentation |

Client Reported Results:

- Decreased Blood products utilization
- Reduction in Maternal ICU Admissions from hemorrhage
- Decreased Surgical Procedures related to hemorrhage
- More opportunities to intervene early and provide appropriate care
- Improved Maternal Morbidity and Mortality

Indications for Use: DECISIO's InsightIQ (DECISIO Health Patient Dashboard) is a decision support device indicated for aggregating, displaying, and managing physiologic and other patient information. This information is generated by third party medical devices and patient information systems. The device performs automated calculations on patient data collected by third party devices based on approved clinical protocols at patient care facilities.

*As seen at a 65-bed Women's Hospital (labor and delivery, postpartum (mother-baby), and private NICU rooms)