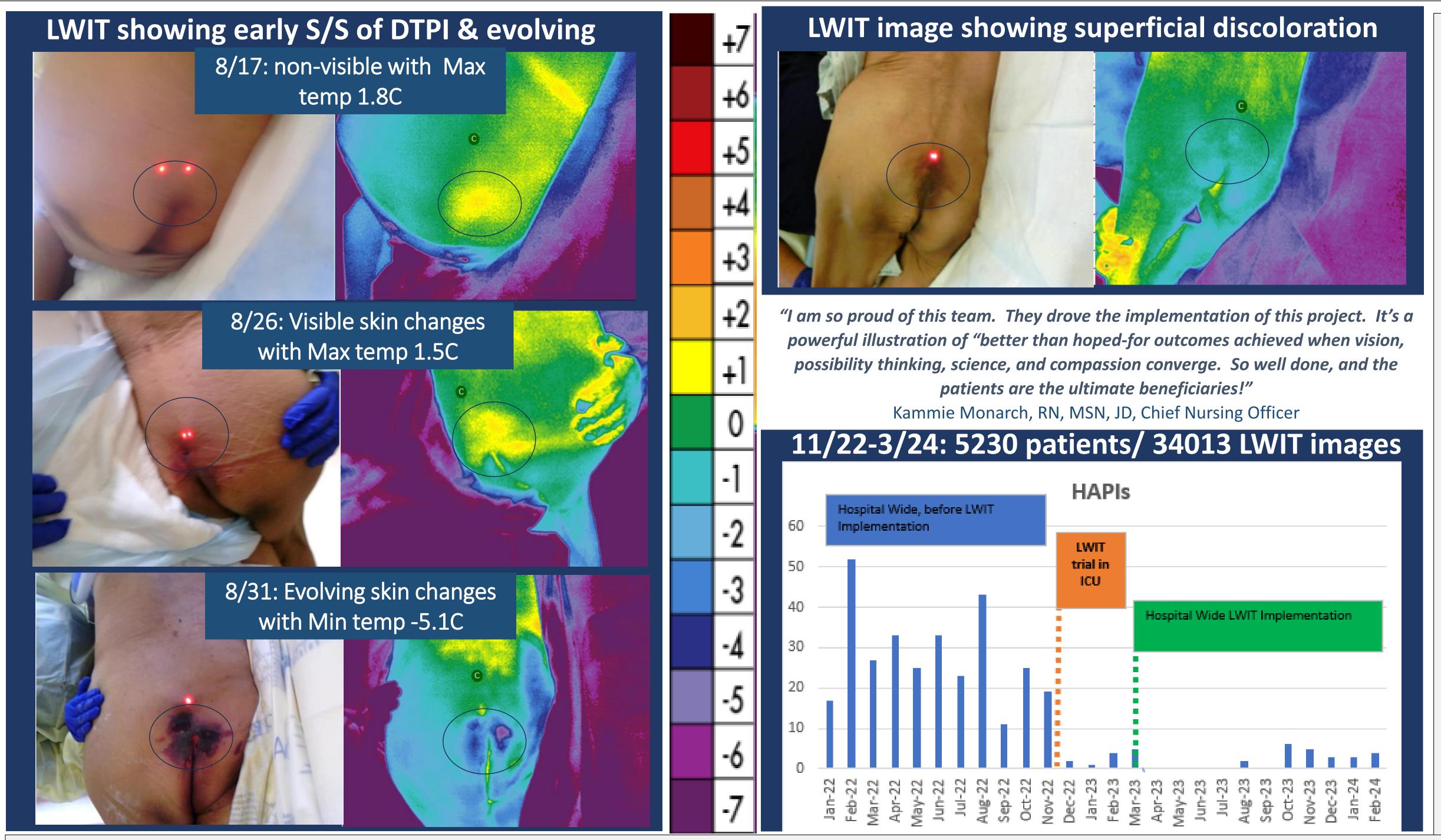


"Beyond 4 Eyes in 4 Hours" Implementing Long Wave Infrared Thermography Diane McCall PT, DPT, Director of Rehabilitation Services

<u>PURPOSE</u>: Early identification and prevention of pressure injuries (PIs) pose significant challenges in hospital settings. Our incidence rate of hospital-acquired pressure injuries (HAPIs) was higher than the 2022 benchmark rate set by the Agency for Healthcare Research and Quality (AHRQ), which signified the need for investigation and corrective action. Root cause analysis revealed multiple key factors contributing to a higher incidence of HAPIs: inconsistent skin assessments, variances in the risk assessment tool completion, delayed preventative interventions, fragmented documentation, and organizational resistance to change.

METHODS:

A dedicated interdisciplinary team was established to address issues and identify solutions. To reinvigorate the organization and move towards "zero" harm, "4 Eyes in 4 Hours" was merged with "Thermal Imaging" into a strategy coined "Beyond 4 Eyes in 4 Hours". Long Wave Infrared Thermography (LWIT) aids the bedside clinician in the early detection of pressure injuries (PIs). The merge illustrated the critical importance of timely assessment and early interventions. Other tools used included Six Sigma / Lean, Organizational Learning and System Thinking, Plan-Do-Study-Act (PDSA), Define, Measure, Analyze, Improve, and Control (DMAIC). Hospital leadership analyzed data, created a shared urgency, identified key stakeholders, and set "SMART" goals.



RESULTS:

The results exceeded expectations. Within two months of implementation:

- HAPI incidence reduced from a baseline of 25.71 (per 1000 discharges) to 2.55.
- At six months, the incidence rate dropped further to 0.00.
- Policy compliance is above 90%.
- As a result of this project,
 SJRMC's 6-month financial gain
 is estimated at over 5 million
 dollars.

Several key factors contributed to the success of the project.

- Customized education tools for both staff and patients.
- Daily reports to unit managers, and monthly reports to the quality team.
- Routine meetings with the internal team and vendor to build future growth.

<u>CONCLUSION</u>: The complexity of patient care is constantly increasing, and healthcare systems must adapt and evolve to ensure the delivery of safe and high-quality care. Facilities should not hesitate to take significant measures to improve care. They should demonstrate a willingness to learn and not underestimate the clinical staff's readiness to embrace new technology and process changes. SJRMC will continue going "Beyond 4 Eyes in 4 Hours" for successful outcomes.