

BIOTRACE™ INSTANT READ STEAM SYSTEM DRIVES EFFICIENCIES AT MONTEFIORE MEDICAL CENTER'S HIGH VOLUME STERILE PROCESSING DEPARTMENT



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Background Montefiore

Montefiore Medical Center's Moses Campus in the Bronx, NY operates under high-volume conditions, performing 65–80 surgical cases per day, with an average of approximately 9.99 trays per case (approximately 700 trays across shifts) and 40 SPD employees. Despite strong throughput, observational evaluation revealed that inefficient operations in a high-demand environment can "increase staff stress and lead to documentation errors, delays with tray release, and regulatory risk".

Challenges Observed Using Leading Competitor's Biological Indicator (BI)

- > Documentation Errors**
2024 Total: 33 errors
2025 Jan-Sep Total: 43 errors
Top Error: Incomplete card entries
 (64% of errors)
- > Inefficient Operations**
 Leading Competitor's BI require longer incubation periods (24min+) increasing the likelihood of mismatched or incomplete records.
- > Staff Stress**
 High-volume environment and long BI wait times amplify error potential and SPD staff stress.

Key Insights from Staff Interviews

- ▶ Workflow Efficiencies**
 The SPD team priority is to maintain workflow; any delays in documentation or tray release directly affect their ability to manage throughput and meet OR demands
- ▶ Documentation Accuracy & Compliance**
 Efficient workflows enable SPD staff to focus on accurate, timely documentation that supports traceability and compliance with regulatory standards.
- ▶ High Operational Demands in SPD**
 SPD staff must balance multiple critical tasks under tight timelines. During shift change, extra communication and hand-offs are needed for documentation accuracy and completeness. Stepping away from post-processing step increases the risk of delayed documentation.

Key Considerations Driving Adoption of ASP BIOTRACE™ Instant Read Steam System

- ▶ Eliminates Downtime**
 Reduces BI readout time from 24 minutes to 7 seconds.
- ▶ Reduces Errors & Anxiety**
 Immediate results minimize risk of misplaced documentation.
- ▶ Immediate Action on Failures**
 Faster BI confirmation accelerates tray release and OR readiness.
- ▶ Compliance & Safety**
 Accurate documentation supports regulatory compliance and patient safety.



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