Background
- BIDMC is one of the leading hospitals in the U.S. based on quality, safety, and access
- BIDMC has recently made an investment to better enable real-time data availability

Problem Statement
- Identify specific use cases for real-time data that can improve operational efficiency and the patient experience
- Evaluate operational processes to identify the best candidate for a pilot, as well as the optimal implementation sequence

Scope
- Pathology
  - Chemistry
  - Anatomic Pathology
- Microbiology
- Phlebotomy
- Blood Bank/STEM Cell
- Non-Pathology
  - Admitting
  - Radiology
  - Transport

Analytical Framework
- IMPACT:
  - Operational Efficiency
  - Patient Experience
- READINESS:
  - Technical Feasibility
  - Political & Cultural
- Value-add of Real-Time Data

Methodology
- Interview experts and stakeholders
- Assess data challenges and needs
- Develop an implementation plan
- Recommend a pilot program

Analysis and Findings
- Assessment of Impact and Readiness

Implementation Plan
- Proposed Real-time Dashboard Solution
  - Sample collected
  - Transport to Lab Control
  - Lab Control Processing
  - Chemistry Pre-Testing
  - Chemistry Testing
  - Chemistry Analysis
  - Results Available

Implementation Sequence
- CHEMISTRY
- REST OF PATHOLOGY
- NON-PATHOLOGY SERVICES

Benefits of Real-Time Data System
- Better resource allocation
- Greater visibility into bottlenecks and inefficiencies
- Faster work processes
- Improved communication and coordination
- Reduced patient wait times

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