

HSPI 2021: Sessions by Track

Human Factors

- Corraling Dashboards: Ensuring Actionable Storytelling with Data
- The impact of a Web-Based Scheduling and Communication System on the Rate of Broken Appointments
- Investigating the Adoption of Telemedicine to Support Postoperative Visits
- Next Generation Healthcare Leaders: How to Attract, Engage & Retain a 5-Generation Workforce
- Human Factors/Ergonomics-Based Process Analysis and Improvement of a COVID-19 Laboratory Testing Process
- Workload intensity in the intensive care unit: Naturalistic physical activities assessment using accelerometer data
- Finding Structure in Reddit With Text Mining and Dimensionality Reduction: the Case of Miscarriage Experiences

Leadership

- Design Thinking and DMAIC
- Come change your Mind(set)
- 99% is NOT enough! Leading to achieve High Reliability
- Re-imagining Healthcare with Agile Leadership and Change Management
- Lack of emotional intelligence: It will derail your career!
- CT Actualization of Lean Management
- Using Hoshin to separate Routine from Breakthrough
- Building Blocks to Provide Analytics for Data Driven Decisions
- Volunteer-driven clinic tackles COVID-19 risks using process improvement tools
- Deploying a Management Engineering and Consulting Team for COVID-19
- Priorities Needed Now for Healthcare Transformation
- Life Lessons for Career Growth- How we not only survived 2020, we thrived!

Operations Research

- Forecasts to Surveillance - the MaineHealth COVID-19 Response
- A Bi-linear Knapsack Problem from Resource Allocation for the Deployment of Mobile Health Clinics
- Methods for Measuring Value in Healthcare
- A STOCHASTIC APPROACH FOR COVID-19 CASES PROJECTIONS IN BROOME COUNTY NEW YORK
- Modeling policy interventions to improve patient access to rural dermatology care
- Enhancing Nursing Care Management Using Analytics, Lean Healthcare and Optimization Methods
- Multi-Campus Redesign with Multi-Criteria Decision Analysis

Potpourri

- Responding to COVID-19: Building a PPE Reprocessing Process
- Continuous Improvement Team Adding Value through Support During Global Pandemic
- Highly Engaged Clinicians Can Facilitate Care Innovation

- Revisiting How We Think About Systems and “Systemness”
- Deploying a improvement training program in a pharmacy residency program
- It Takes a Village: Integrated COVID19 Transitional Care
- Emergency procurement of PPE during COVID-19 crisis in New York City
- Enhancing Virtual Care Delivery through a Scalable, Centralized Intake Model
- Capacity Gains through a Procedural Platform Planning Process (Quad P)

Process Improvement

- Go to the Virtual Gemba! Leading and facilitating process improvement events in a virtual world.
- One Day Knee - Clinical Transformation Project
- The Ethics of Lean in Healthcare
- Emergency Department Medication Room Supply Optimization
- Lean Healthcare Systems Engineering Process for Projects
- Centralizing and Optimizing the Supply Chain through data due to COVID-19
- Drive-Thru Services: Increasing Access During COVID-19 and Beyond
- Clinical Support Center: Level-Loading Work and Standardizing Processes
- Automating and Improving Upload of Data to Clinical Registries
- Reducing Inpatient Discharge Delays
- COVID19 Capacity Planning: Leveraging Case Management to Identify Discharge Barriers
- Streamlining Workflow and Improving Access for Outpatient Nuclear Cardiology Testing
- How smart KPIs help drive efficiency and improve patient safety
- Assess the peak of fatigue and energy of physicians to determine the optimal time for simple and difficult surgeries
- Improve Consult and Radiology Referral Process using EMR Functionalities
- Optimizing Supply Pars - using LEAN formulas to adjust inventory control
- A FOCUSed Approach to Facility Design
- Toward Automated Objective Scoring of Orthopedic Trauma Fixation Performance from Fluoroscopy
- Meaningful Use of Patient Event Log Data
- Building a Homegrown COVID-19 Medication Inventory Dashboard
- Preference Card Optimization Application
- Using Agile and Lean Techniques During Covid-19 Pandemic
- “LEAN” tools to the rescue- Eliminating Covid-19 patient screening inefficiencies
- Machine-Learning-Guided Simulation for Process Improvement in a Care Management Setting
- Improving Associate Health Screening and Surveillance in Response to COVID-19
- Improving Emergency Department Throughput using Explainable Artificial Intelligence
- Using Discrete Event Simulation to facilitate Decision Making during a Pandemic
- Improving Improvement - Transforming a Daily Management System
- Using discrete event simulation to determine Optimal Operating model for state of the art Emergency Department
- Maternity Care Coordination Program Analytical Data Tracking System
- Planning for the new normal with COVID-19 at Parkland’s Community Oriented Primary Care Clinics
- Improving Efficiency & Throughput in the Cancer Center at Tufts Medical Center for Linked Clinic & Infusion Visits
- Transforming Culture by Leveraging KPIs to Drive Sustainable Improvement in Pharmacy Operations
- Decontamination and Reuse of N95 Respirators with Ultraviolet Germicidal Irradiation
- Proactive All Cause Readmission Prevention Project
- Improving MD-RN Communication in Triage-Heavy Settings Using Lean Six-Sigma Methodology
- Reducing Patient Boarding Time in the ED using Lean Six Sigma
- Improving ePrescription of Controlled Substances in the Emergency Department

- Improving the Pneumatic Tube System Utilization
- Integrating Participatory Design with DMAIC to Improve MyChart Enrollment
- A Comparison: Ambulatory Space Capacity Analysis Approaches & Selection Process
- Lean Six Sigma Process Improvement: a Case Study of IRB Process
- Hire Ahead: A strategic solution that reduces reliance on premium pay
- Productivity in the small primary care clinic
- Streamlining Prior Authorizations & Reducing Denials
- An Approach to Improve Process Flow in a Psychiatric Prison Using Discrete Event Simulation
- Factor Differences in Patients' Perception of Inpatient Care Using the HCAHPS Survey
- Rapid Implementation of Telepsychiatry in a Safety-Net Health Health System During Covid-19 Using Lean
- Pivoting to Remote Learning in Experiential Teaching of Process Improvement
- Process Improvement and Redesign of an Orthopedics and Spine Hospital

Quality and Patient Safety

- Utilizing an Enterprise Collaborative Model to Reduce Infection Rates
- Applying Lean to Stand Up Safe COVID-19 Test Sites
- Pediatric Innovations During a Pandemic
- Drive-Thru Vaccination Clinic
- Gaming the Curriculum – Building Quality and Safety into Medical School Education
- IMPLEMENTING GUIDELINES FOR REMOTE TELEMETRY
- Missing Links to Sustainable Process Improvements
- Achieving Success in Medicare ACO Programs
- Combining standard work implementation and product customization to decrease CLABSIs
- Nurses' Work with Interruptions – A Model Guiding Our Way Forward
- Patient Falls Eradication System: Utilizing Systems Thinking to Control the Impact of Inattention Blindness
- Development of a Comprehensive Hand Hygiene Training, Education, and Monitoring Process for an Eleven Hospital System

Research

- Evaluating the Effectiveness of Virtual Mindfulness-Based Stress Reduction
- Assessing the impact of patient-facing mobile health technology on patient outcomes
- Prediction of COVID-19 Patient Demand Using a Modified and Dynamic SIR Model for Resource Allocation
- The Evaluation & Comparison of Different COVID-19 Bed Surge Models
- Impact of Overlapping Shifts in the Emergency Department

Sustainability

- Rapid Implementation and Optimization of Pre-Procedural COVID-19 Testing
- Sustaining Video-Enabled Clinical Visits During a Pandemic and Beyond
- N95 Respirator Mask, PPE Disinfection in response to a Global Pandemic