

Informed Decisions: Harnessing Data to Save Lives (and Dollars)

More than five million Americans with life-threatening conditions are admitted to intensive care units (ICUs) each year. Critical care is complex, with amounts of data beyond the capability of any person to absorb, integrate, and act upon reliably. It is also expensive, accounting for almost 1% of the nation's GDP. Approximately \$65 billion of Medicare costs are spent in the ICU each year.

There is an urgent need to be able to translate data into actionable information that provides enhanced situational awareness for busy clinicians. Caregivers need to understand the data and its implications in order to make the best choices about treatment. Not only will patients receive better care, but expenses will become more predictable, reducing overhead and shifting healthcare dollars back to the bedside.

A consortium of leading clinicians and engineers are developing a systems-engineering approach to integrate medical data from diverse sources and communicate actionable information to clinicians. More than two decades ago, a similar approach mitigated cognitive error in the aviation industry, reducing cost while increasing safety and efficiency. Crashes were reduced by 65%.



Presented by:

Dale Larson

*Director, Draper Laboratory Biomedical Systems Division & NSBRI
Industry Forum Steering Council Member*

Mr. Larson will discuss a consortium-designed technology approach that can save lives and cut costs in critical care, telemedicine and more. Mr. Larson is the Director of Biomedical Systems at Draper Laboratory. In his previous work, Mr. Larson was a director at Arthur D. Little where he created the Laboratory Automation and Clinical Instrumentation Practice. He was also a founding director of the Technology and Engineering Center at Harvard Medical School. Mr. Larson has also served as President and Chief Operating Officer of a genomics startup.



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