Saving Lives, Jobs, and Costs....
by Saving the Brain

Connecting Smart Systems to Optimize
Emergency Neurological Life Support

Dick Moberg, Team Lead
Booth 11
Traumatic Brain Injury

• The Brain
  – Complex, elusive
  – Research is difficult

• The Need
  – Rich data
  – Advanced analysis

Clinical management of TBI is like predicting the weather using only the temperature
The Connected Neuro ICU

MOBERG
Hemedex
Integra
Philips
Dräger
Somanetics
CASMED
Aspect
MD PnP

Connected Neuro ICU
The Smart Neuro ICU

Rich Data

Advanced Analysis

Connected Neuro ICU

J. Michael Schmidt, Ph.D., Columbia
(Excel Medical Electronics + IBM)
• The Smart Neuro ICU Project
• Creating a real working neuro ICU as a laboratory to test and develop concepts:
  – Precision medicine
  – Informatics
  – Patient safety
  – Cost reduction
• Open in 2015
Connected Smart Systems

How can they help?

Time is Brain

Emergency Cardiac Life Support

Smart Neuro ICU
Connected Smart Systems
How can they help?

Emergency Neurological Life Support

+ Emergency Cardiac Life Support

Time is Brain

Smart Neuro ICU

SMART AMERICA

ENLS
Emergency Neurological Life Support
Connected Smart Systems
How can they help?

Time is Brain

Smart Neuro Emergency Management

Smart Neuro ICU
Connected Smart Systems
How can they help?

Time is Brain

Smart Neuro Emergency Management

Time to ICU

Smart Neuro ICU
Connected Smart Systems
How can they help?

Time is Brain

Smart Neuro Emergency Management

Smart City Transportation

Smart Neuro ICU

Time to ICU
Summary

- TBI is a significant national problem
- Connecting Smart Systems can help
  - Faster treatment – better outcomes
  - Better outcomes – save lives, lower costs
- Very feasible Idea
  - Professional society endorses the idea
  - Partners interested
  - Locations selected
  - Need modest funding
Video

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