

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

### Connecting Smart Systems to Optimize Emergency Neurological Life Support

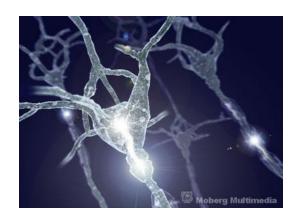
Dick Moberg, Team Lead
Booth 11



### 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









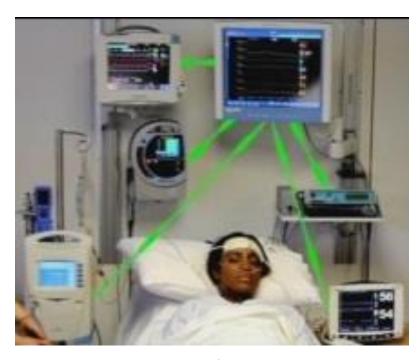












Connected Neuro ICU



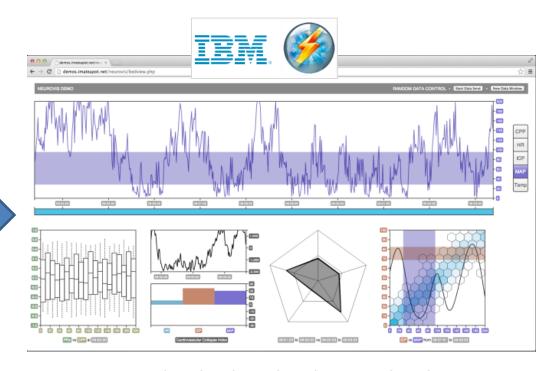
#### The Smart Neuro ICU

#### Rich Data

#### **Advanced Analysis**







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



**Time is Brain** 

Emergency Cardiac Life Support



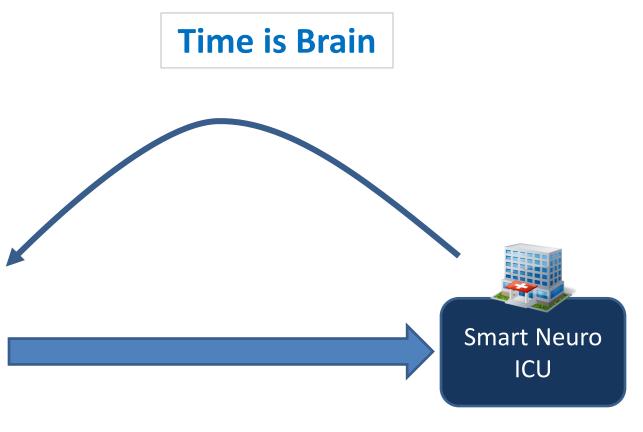




Emergency Neurological Life Support

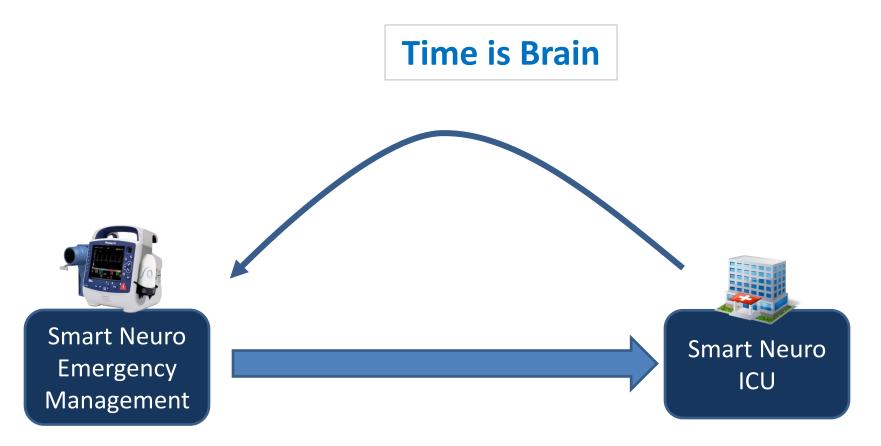
Emergency Cardiac
Life Support





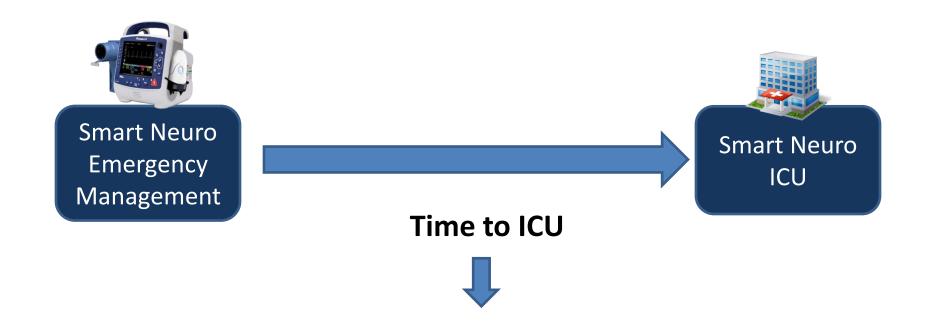






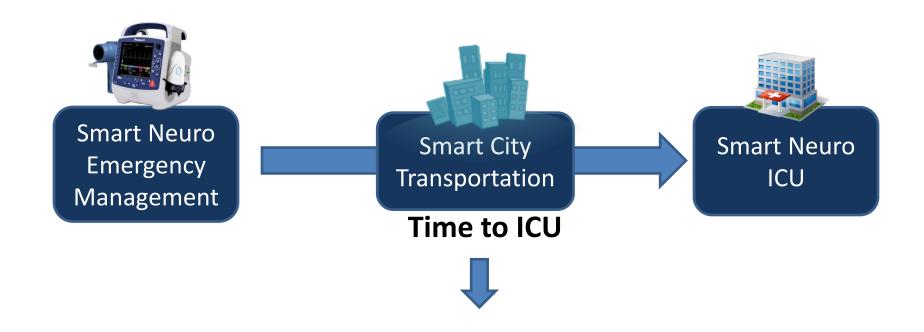


**Time is Brain** 





**Time is Brain** 





## 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



### <u>Video</u>

Thanks to Geoff and Sokwoo for their hard work to make this happen.