Roundtable 1:
Conceptually – What Do We Want?

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Ultimate Vision:
- Computer decision making
- Artificial intelligence
- Bayesian networks
Goals:
• Collect and present data to care givers
• Data driven decision support tools
• Data access for research

Ultimate Vision
• Computer decision making

Goals

Opportunities

Hurdles

Reward
Ultimate Vision
- Computer decision making

Goals
- Collect and present data
- Data driven decision support tools
- Data access for research

Opportunities:
- Capture data already being monitored
- Apply existing signal analysis techniques to process data for feature extraction
- Improve data visualization

Opportunities

Hurdles

Reward
Ultimate Vision
- Computer decision making

Goals
- Collect and present data
- Data driven decision support tools
- Data access for research

Opportunities
- Capture monitored data
- Apply existing analytics to data for feature extraction
- Improve data visualization

Hurdles:
- Technical
  - Access to data streams
  - Analytical techniques
  - Real-time processing
- Clinician vision
- Compatibility issues
  - Device manufacturers

Reward
Ultimate Vision
• Computer decision making

Goals
• Collect and present data
• Data driven decision support tools
• Data access for research

Opportunities
• Capture monitored data
• Apply existing analytics to data for feature extraction
• Improve data visualization

Reward:
• Access to processed and raw biological data for:
  • Improved patient status assessment
  • Clinical trials to evaluate existing analytics
  • R&D: New analysis
  • Investigate underlying pathophysiology

Hurdles
• Technical
• Clinician vision
• Compatibility issues
Conceptually – What Do We Want?

Ultimate Vision: Computer decision making

Goals: Collect and present data to clinicians and researchers
      Data driven decision support

Opportunities: Capture monitored data
               Apply existing analytics for feature extraction
               Improve data visualization

Hurdles: Technical
         Clinician vision
         Compatibility issues

Reward: Access to processed and raw biological data
         Improved patient status assessment
         Clinical trials to evaluate existing analytics
         R&D: new analysis
         Investigate underlying pathophysiology