Foundation of IoT

Connections
Ubiquitous
Knowledge
Global

THINGS  NETWORK  DATA  PEOPLE
Focal Areas of IoT-Healthcare

- Health records management
- Monitoring of physiological conditions
- Ambient assisted living
- Personalized treatment
- Remote Care

Improve health of the mass
Lowered cost of healthcare
Improved patient experience
Best use of resources
Predictive analytics uses technology and statistical methods to search through massive amounts of information, analyzing it to predict outcomes for individual patients.
Higher accuracy of diagnoses

- Assistive aid to clinical decisions (Decision Support Systems)
- Determine likelihood for a treatment plan
- New patterns in medical data and deeper insights into patients’ health
Preventive medicine and public health

- Predict risks of diseases based on previous data
- Especially helpful for chronic diseases
- Helps in preventive treatment
Emergency and intensive care

- Ascertain risks of emergency
- Robust treatment plan for emergency
- Automate administration (respiratory, fluid etc.)

Respiratory Management

PATIENT-VENTILATOR ASYNCHRONY

- 35% experience asynchrony
- Asynchrony is associated with
  - 5x increase in ICU mortality
  - 3x increase in mechanical ventilation time
  - 2x increase in hospital length of stay
- Detection is tedious, imprecise, time-consuming

In Hospital ICUs, AI Could Predict Which Patients Are Likely to Die

By Eliza Strickland
Posted 7 Mar 2017 | 18:00 GMT
The “GREY” side

“In 2016, users will trust health apps more than their doctors” – Forbes

Health apps could be doing more harm than good, warn scientists

App development likened to the ‘wild west’ as researchers raise concerns over one-size-fits-all targets and absence of sound science
Our Speakers

Prof. Emmanuel Benoist
Speaker
Bern University of Applied Sciences
Professor for Computer Science

Jan Sliwa
Speaker
Bern University of Applied Sciences
Researcher

Jean François Ciparisse
Speaker
University of Rome Tor Vergata
Ph.D. student in Industrial Engineering

Sergio Guillen Barrionuevo
Speaker
MYSPHAERA
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Thank You

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