

Questions (for 3-min answers) to ACIT students based on Intelligent Health – Future Rehabilitation conference Oct 2023

1. *What are the needs and opportunities in Health Industry for digitalization? What are the most time-consuming manual tasks that can be performed digitally? Can use examples from Eivind Gjerdal's (BITS) presentation.*
2. *What is "Personalized medicine"? Give examples of its use in cancer treatment and rehabilitation.*
3. *Give examples of future use of Virtual Reality in Clinical applications (based on Skip Rizzo from the University of Southern California).*
4. *Comment on the use of VR in training to improve social cognition after traumatic brain injury.*
5. *Linda Sørensen from Sunnaas has presented "Humanoid robots in healthcare - a friend or an enemy?". Please comment on benefits and disadvantages of these robots from your point of view, give specific examples where you see the future of this technology.*
6. *Prof. Peyman Mirtaheri from OsloMet has delivered a talk "Walking the Path to Wellness: Foot Position, Brain, and Musculoskeletal Health" – please comment on connection between motion, emotion and brain activation.*
7. *Does rehabilitation research make a difference for real life problems? What are the SMART goals? Are they applicable to all patients?*
8. *Comment on unmet needs in community-based rehabilitation. Can use examples from Geir Sundet's presentation (KPMG) and your own observations.*
9. *Give example of Wearable Sensing Technologies used for Rehabilitation and explain what Chwee Teck Lim from the National University of Singapore mean by "Health Metaverse".*
10. *What are the emerging technologies of 2023?*
11. *Anastasia Shulga, from Helsinki University Hospital talked about Paired associative stimulation in spinal cord injury rehabilitation. Give examples of techniques used for that? What is transcranial magnetic stimulation?*
12. *Please elaborate on the shift in spinal cord injury rehabilitation (can use examples from Fin Biering-Sørensen, Clinical Professor at Rigshospitalet Copenhagen)*
13. *Elaborate on advantages and limitations of telerehabilitation for post-stroke aphasia.*
14. *Give example on the use of AI in rehabilitation and comment on challenges associated with it, based on Prof. Michael Riegler's talk.*