



**ISPRM 2020**  
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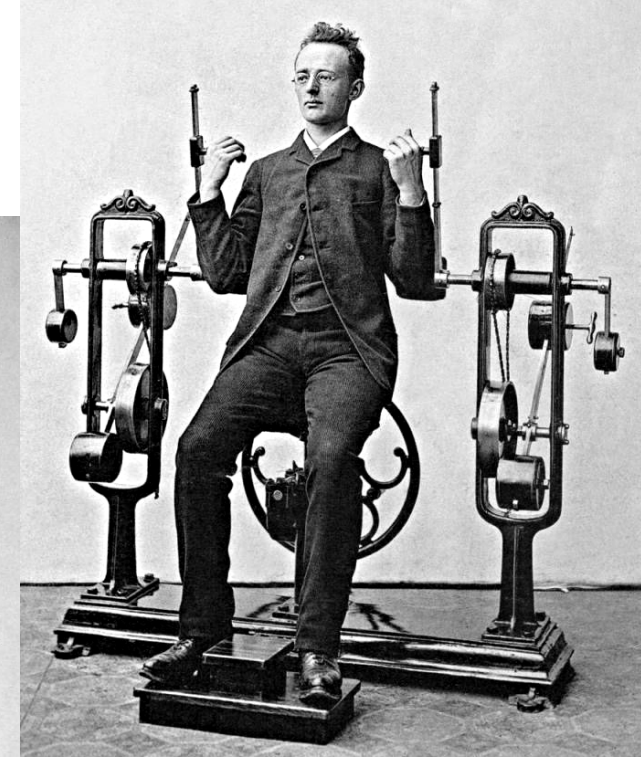
*Alberto Esquenazi, MD, FAAPMR and FISPRM  
John Otto Haas Chair and Professor of PMR  
Director Gait & Motion Analysis Laboratory  
MossRehab  
Philadelphia, PA. USA*

# Changes in clinicians daily life with the advent of Rehabilitation Technology

Technological innovations and advances are playing an expanding role in the care of our patients in the field of PM&R, with our capabilities continuing to evolve, adapt, and advance in dramatic ways to help patients achieve greater functional independency.

Yet, there are great learners need.

Innovations Influencing PMR. Cao & Esquenazi. PMR 2018



# Changing Educational Needs for Clinicians Involved in Rehabilitation Technology



- From exoskeletons, robotics and virtual rehabilitation to wearable sensors and other technologies, we need to discuss multiple perspectives on these emerging technological advances and help us all understand their impact in the field
- We need to ready clinicians to be at the forefront of managing and applying, these technological interventions.



# Choices and Directions

- Wait for change to occur and perhaps adapt to it,
- Take a risk as an earlier adaptor and innovator.
- Both have unique risks, but it is my opinion that setting the direction of change has clear potential advantages
- The field of rehabilitation medicine is undergoing many rapid and varied changes, understanding and embracing those that are proven to be clinically valuable, will help rehabilitation professionals remain relevant, and help guide the rational use of these different therapeutic options.

Change is Our Challenge and Our Opportunity, Esquenazi. PMR 2014

Robots and Sensors for Upper Limb Rehabilitation, Jakob et al. PMR 2018

Virtual Reality for Neurorehabilitation, O'Neil et al. PMR 2018

Wearable Sensors in Rehabilitation, Porciuncula et al. PMR 2018

Getting the Best Out of Advanced Rehabilitation Technology for LL: Minding Motor Learning Principles, Spiess et al. PM&R 2018