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ISTEH International Society for Telemedicine & eHealth

Portugal eHealth SUMMIT

SINS SERVIÇO NACIONAL DE SAÚDE

SPMS PER Serviços Partilhados do Ministério da Saúde

REPÚBLICA PORTUGUESA

Medicina Personalizada

O futuro chegou hoje

Ricardo Encarnação







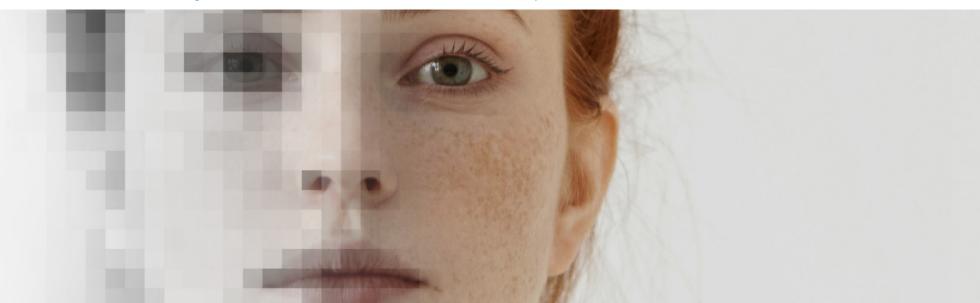








Transforming Healthcare *Through a new era of data and analytics*





BIG DATA Is "**BIG**" good enough?





AT SCALE

High quality data with a purpose: to answer key scientific questions

Meaningful data



Covering enough patients to be generalizable





Roche

An holistic approach to driving value from MDAS A continuous "engine" that starts and ends with patients





Deep and broad data from multiple sources

Genomics FOUNDATION MEDICINE® EMR / RWD flatiron

Digital Health

Advanced imaging

Digital pathology





Integration of digital tools into clinical pathways to **improve care & outcomes**

Digital Outcomes & Biomarkers

Digital Imaging & Pathology

Apps & Wearable devices (smartphone, smartwatch, ...)

Passive & active monitoring

Digital Care Solutions

Digiceuticals (PDT)



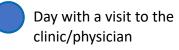


Day in the life of a patient with weak symptoms





Day in the life of a patient with weak symptoms







Day in the life of a patient with weak symptoms

Day with a visit to the clinic/physician

Day with stronger symptoms

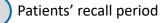




Day in the life of a patient with weak symptoms

Day with a visit to the clinic/physician

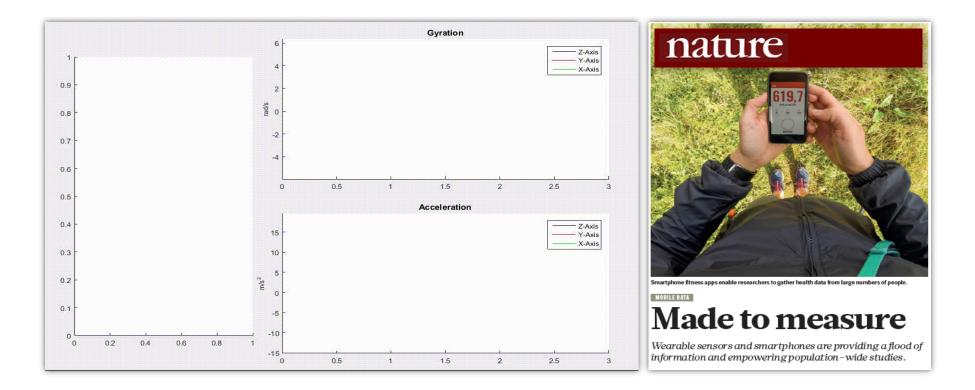
Day with stronger symptoms

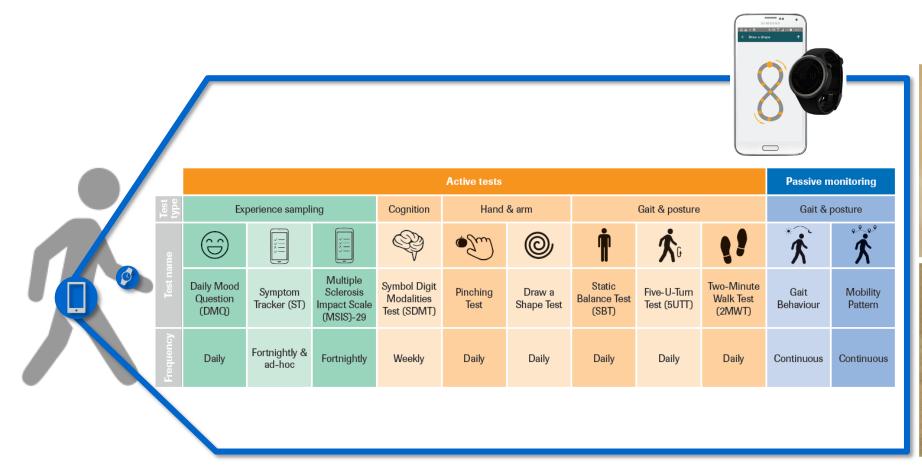






Consumer-technology enables objective, precise, and continuous active and passive monitoring





Smartphone-based self monitoring (SSM) in MS

Floodlight - Developed with input from clinicians







Roche

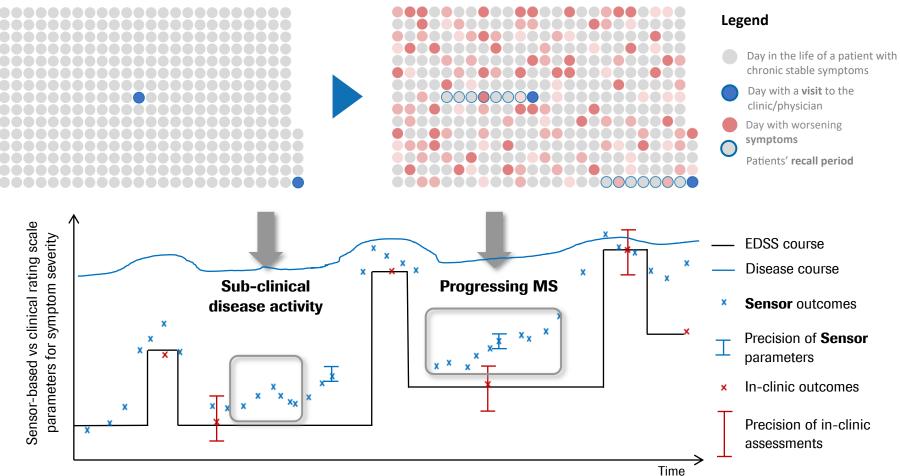


Identifying sub-clinical disease & progressing MS 365 days/year with active tests and passive monitoring



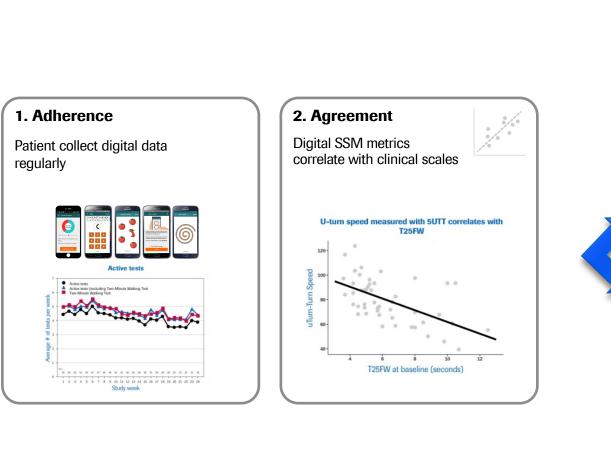
365 days in the life of a patient with MS: in current clinical practice a patient may only see their physician twice for around 10 minutes.

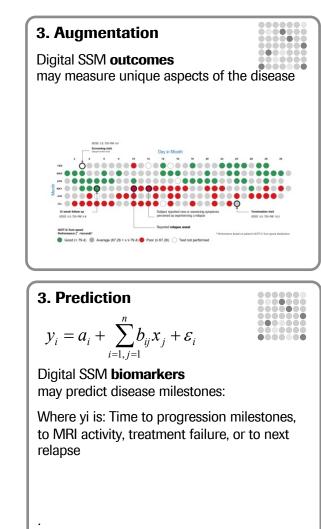
Remote monitoring promises to change this. Disease activity can be measured throughout the year, enabling better-informed treatment decisions.





Towards Digital Endpoints and Biomarkers *In MS Clinical Trials*





KOChe



High resolution view of each patient and their disease







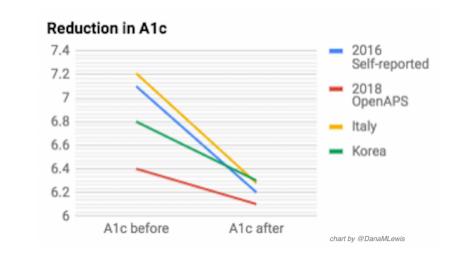
1,161+ individuals around the world

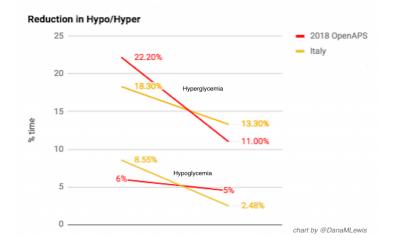
more than **10,100,000+** real-world "loop hours"

#WeAreNotWaiting

Open Artificial Pancreas System (OpenAPS[™])







https://openaps.org/



#WeAreNotWaiting

"I'm just a girl living with type 1 diabetes who got tired of waiting."

Dana Lewis



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OBRIGADO

Ricardo Encarnação Roche Farmacêutica Química, Lda

24th ISfTel Internationa ISTEH International Society for Telemedicine & eHealth