The future of healthcare is personal!

PRISME 2019 Niaz Jalal November 21, 2019





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18:24 The Future, November 14			
Notification Center	×		
O DIGITAL HEALTH	23m ago		
Hi Niaz, thanks for giving us permission and access to you health. Our goal is to help improve the quality of care for patients, like you. "Personalized Healthcare" aims to help with research and development			
3 more notifications			



Patient Power

Power of information Power of permission Power of access

"Future of healthcare is personal!"

Who am I?



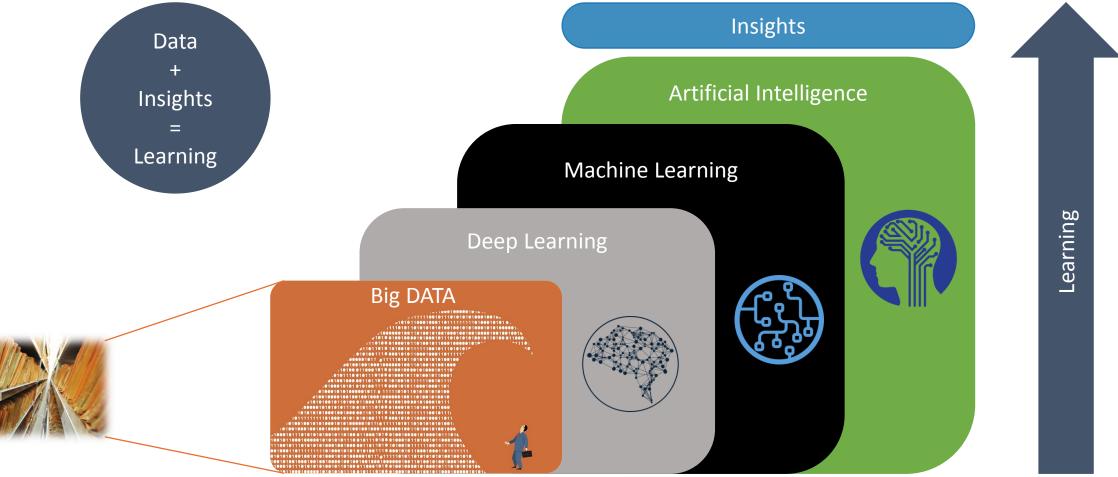




l am not a scientist

I am not a doctor l am not a chemist I am an engineer

Why now? Data & Technology



Roche

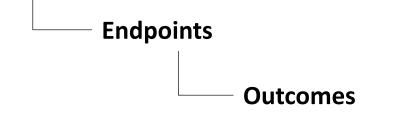
Petabytes

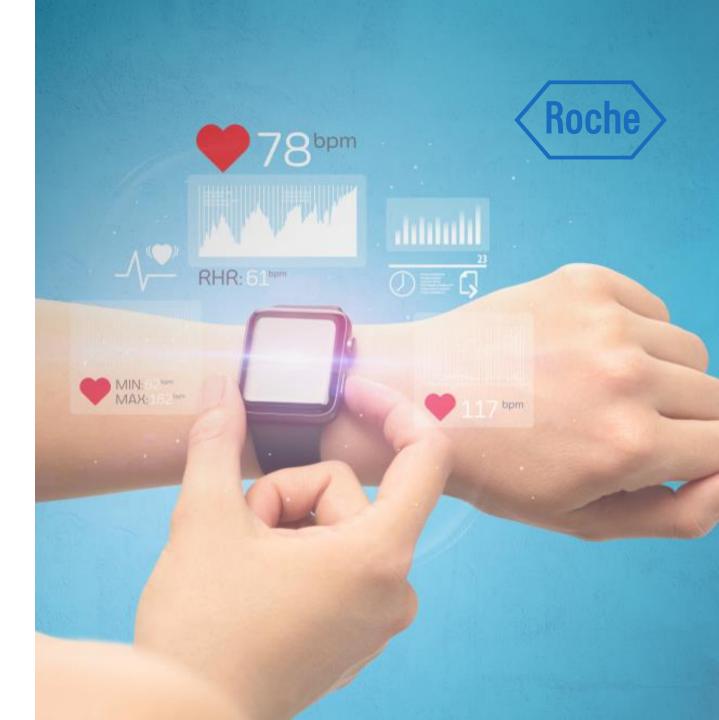
Patients

Digital to drive better outcomes

Two types of measures: Objective and Subjective

Biomarkers







Data empowers the patient

Roche

Patient Care: Data and Technology

Personalized Healthcare

Secret sauce is trust





Clinical Evaluation				
1 Valid Clinical Association	② Analytical Validation	③ Clinical Validation		
Is there a valid clinical association between your SaMD output and your SaMD's targeted clinical condition?	Does your SaMD correctly process input data to generate accurate, reliable, and precise output data?	Does use of your SaMD's accurate, reliable, and precise output data achieve your intended purpose in your target population in the context of clinical care?		

	Significance of information provided by SaMD to healthcare decision			
State of Healthcare	Treat or	Drive Clinical	Inform Clinical	
situation or condition	Diagnose	Management	Management	
Critical	IV	III	II	
Serious	III	II	I	
Non-serious	II	I	I	
Risk categorization for SaMD – Adapted from IMDRF framework, Sep 2014				

Software as a Medical Device (SaMD)

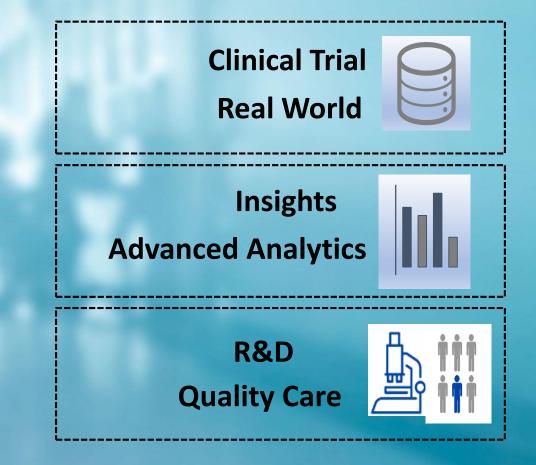


FDA

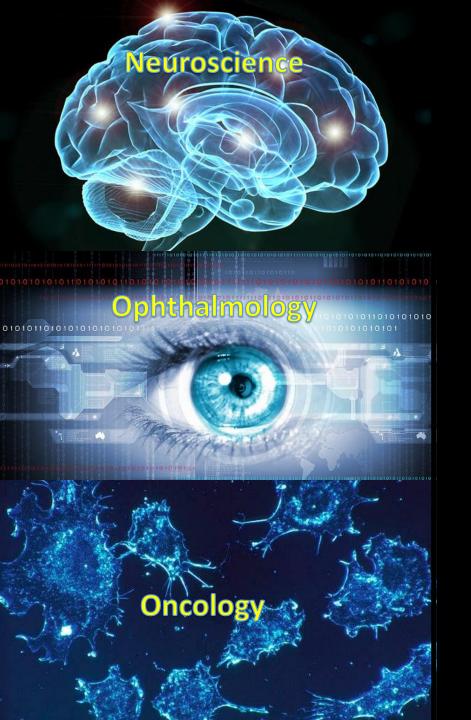




Personalized Healthcare Platform with Meaningful Data At Scale













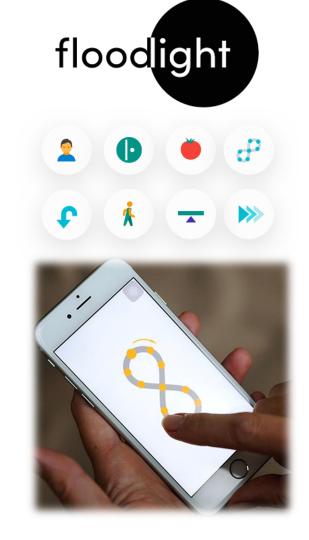
Software as a Medical Device: FLOODLIGHT MS



OCREVUS®

ocrelizumab 300MG/10ML INJECTION FOR IV "Ocrevus was 'the most successful launch in the history of Roche'." - Severin Schwan, Roche CEO

"Ocrevus is the first medicine to be approved for primary progressive MS..." - Sandra Horning, Former Roche CMO



Clinical Decision Support: NAVIFY®



NAVIFY Tumor Board



A cloud-based workflow product that securely integrates and displays relevant aggregated data into a single, holistic patient dashboard for oncology care teams to review, align, and decide on the optimal treatment for the patient.

Clinical Decision Support Apps



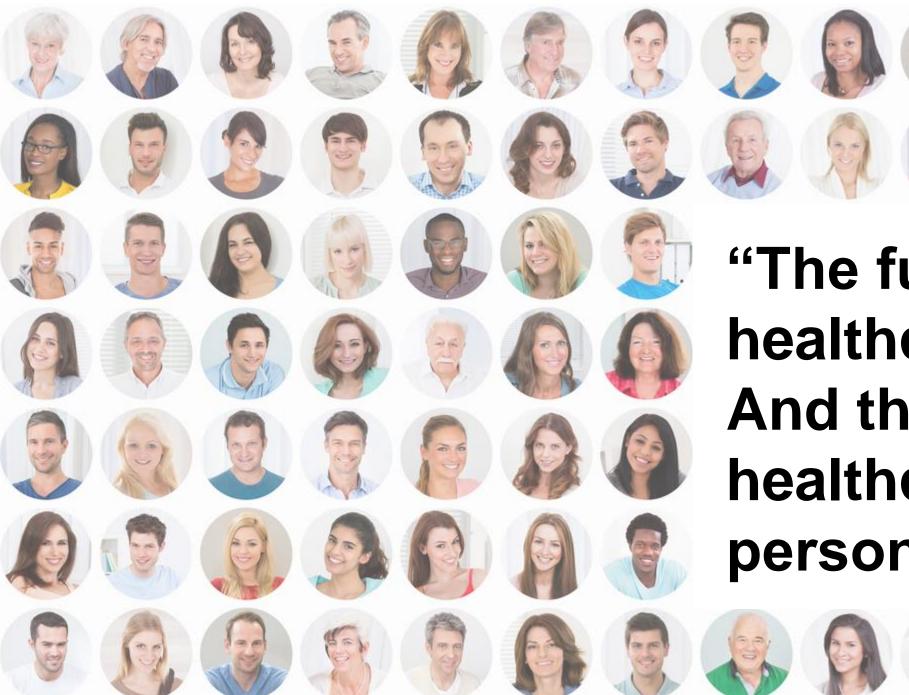
NAVIFY Clinical Trial Match app

Searches largest international trial registries, including ClinicalTrials.gov, European Medicines Agency, Japan Medical Association Center and private institutions



NAVIFY Publication Search app

Searches more than 858,000 publications across PubMed, American Society of Clinical Oncology and American Association of Cancer Research.





"The future of healthcare is now! And the future of healthcare is personal!"