



DIGITAL BIOMARKERS & DIGITAL MEASUREMENTS EUROPE

FOSTERING THE NEW AGE OF HEALTH

Wednesday, 9th of March - Thursday, 10th of March 2022
Virtual | GMT

Conference Day 1 - Wednesday, 9th of March

8:00am Registration, Breakfast and Networking

9:00am Chair's Opening Remarks

9:10am Keynote Presentation: Digital Biomarkers & Digital Measurements - Setting the Scene

- How have we got to this point with digital biomarkers and digital measurements?
- Understand the key challenges and opportunities in this space
- A look ahead to what will be discussed throughout the event

9:35am Keynote Panel Discussion and Open Q&A: Digital Biomarkers & Digital Measurements - What Factors are Holding us Back and How Will We Overcome Them?

Digital biomarkers / measurements aren't new but there remain several core challenges that need to be addressed if these promising approaches are to have real impact. Showcasing leading, multi-stakeholder perspectives, this panel will tee-up the main themes of the meeting before diving into them deeper later on.

- How are companies dealing with a complex, fragmented European landscape?
- What regulatory conversations need to be had to advance the industry?
- How has the impact of COVID-19 accelerated the adoption of digital approaches in healthcare?
- Where are digital biomarkers / measurements having tangible impact on clinical trials?

- How are companies using digital and traditional biochemical biomarkers together to yield greater results?
- What do we hope to achieve by the end of this event?

Johan Van Beek, Global Head, Medical Science & Digital Biomarkers, **Biogen**

10.20am

Morning Refreshments & Networking

Integration into Healthcare

11:00am Presentation: Digital Biomarkers / Measurements and The Impact of COVID-19 on Remote Patient Monitoring in Cardiovascular Disease

- What has been the short term, and what will be the long-term impact of COVID-19 on remote patient monitoring?
- Understand how digital biomarkers / measurements are being integrated into existing workflows
- A look at the key disease states where impact is being felt today

Benjamin Vandendriessche, Chief Medical Officer, **Byteflies**

11:25am Presentation: Digital Biomarkers for Neurodegenerative Diseases

- Detecting and monitoring the symptoms of Parkinson's disease using digital biomarkers of motor impairment extracted from a 5-minute smartphone-based test of voice, gait, balance, finger tapping, reaction time, rest tremor, and postural tremor
- Using smartphone-based testing to identify people who are at risk of developing Parkinson's disease
- Investigating remote technologies as a diagnostic support tool for neurodegenerative diseases by predicting a range of self- or researcher-administered clinical scores that quantify participants' motor symptoms, cognition, daytime sleepiness, depression, and the overall state of health

Siddharth Arora, Departmental Lecturer, **University of Oxford**

11:50am Panel Discussion and Open Q&A: How are Digital Biomarkers / Measurements Being Integrated into Existing Healthcare Workflows?

Digital biomarkers / measurements hold a lot of promise in healthcare and whilst pockets of integration have been achieved, scalability remains a core challenge. Hear from leaders from across healthcare and industry as they deep-dive into where success has been achieved and how they are tackling long-term scalability.

- What are the foundational factors that companies need to understand when approaching healthcare systems as it relates to digitisation?
- How are healthcare decision makers thinking about digital biomarkers / measurements?
- Once initial integration is achieved, how should digital companies work with the ultimate distributor of these approaches to achieve maximum impact?
- Is there a trade off between prediction accuracy and interpretation of results by healthcare professionals? If so, how do we help them achieve greater clarity?
- How should we be tying digital approaches together to assist with integration?

Siddharth Arora, Departmental Lecturer, [University of Oxford](#)

12:30pm

Lunch & Networking

Digital Biomarkers, Measurements and Endpoints in Clinical Trials

2:00pm Lessons Learnt from a Decade of Digital Biomarker Utilization in Clinical Trials

- Sharing the top takeaways from clinical trials that have utilised digital biomarker / measurements
- Where has the needle genuinely been moved by these approaches?
- How are we tackling the core challenges moving forward?

2:25pm Why is Real World Walking Speed so important as a Digital Biomarker in Movement-related Disorders?

- The experience with outcome measures in MS trials
- Dialogue with EMA & FDA about regulatory acceptance, including MDR/GDPR
- The future: Cloud computing, multi-sensor tools and understandable AI

Martin Daumer, Scientific Director | Honorary Professor, [Leona Lavery Centre for Multiple Sclerosis](#)
[Technical University of Munich](#)

2:50pm Panel Discussion and Open Q&A: The Future of Clinical Trials - Digital Biomarkers, Decentralisation and Beyond

The future of clinical trials is being shaped before our very eyes. The impact of COVID-19 forced us to adapt

quickly but the jury is still out on the longer-term digitisation of clinical trials. Join industry leaders as they set out their future visions and share lessons from the front line of digital biomarker / measurement integration in pharma.

- What is here to stay in the wake of COVID-19 as it relates to clinical trial digitisation?
- How are pharma utilising digital biomarkers / measurements for clinical trial decentralisation?
- How do we need to continue creating organisational change to drive forward digitisation?
- What do we wish we knew now when starting out with these approaches in clinical trials?
- What does the future of clinical trials look like?

Martin Daumer, Scientific Director | Honorary Professor, **Sybio Ludwig Center for Multiple Sclerosis**
Technical University of Munich

Garry Honey, Head of Biomarkers, **Lundbeck**

Jürgen Scheuenpflug, Global Head, Clinical Biomarkers & Companion Diagnostics, **Merck KGaA**

3:30pm

Afternoon Refreshments & Networking

Combining Biochemical and Digital Biomarkers / Measurements

4:15pm Combining Digital Biomarkers with “Traditional” Biochemical Biomarkers

- Understand how pharma, healthcare and digital companies should best work together for long-term impact
- A look at the disease areas where combination approaches are delivering new, previously unobtainable results
- Future plans for clinical trials and healthcare workflow integration will be outlined

4.40pm Panel Discussion and Open Q&A: Combining Digital and Biochemical Biomarkers / Measurements - The New Normal?

Healthcare and drug R&D have changed forever. Digital biomarkers / measurements hold a lot of promise but established approaches will continue to yield new insights. Hear from those at the cutting edge of the industry as they share insights into how they are combining the old with the new with biomarkers / measurements.

- Where are the main challenges when looking to combine digital and biochemical biomarkers / measurements?

- What do digital companies need to know before approaching pharma / healthcare organisations?
- What disease states are primed for these two approaches to come together?
- How would improved standardisation of approaches help combine these two areas?
- How can digital companies, pharma and healthcare organisations all work together to improve care and drug development for patients?

5:30pm Chairs Closing Remarks of Day 1

Conference Day 2 - Thursday, 10th of March

8:00am Sign in, Breakfast & Networking

9:00am Chairs Opening Remarks

Digital Biomarkers / Measurements Regulation

9:10am Keynote Presentation: Digital Health Regulation in Germany

- A look at the recent history of digital health regulation in Germany
- What has already been learnt since laws were passed to enable more digital health products to be approved?
- What impact is being felt specifically on the digital biomarkers / measurements space?

9:40am Panel Discussion and Open Q&A: Where are Regulations Helping and Hindering Digital Health in Europe?

Digital health regulation is on the move in Europe but the landscape remains fragmented. Groundbreaking research is taking place, partnerships are being struck and these approaches are being integrated but crucial

discussions still need to take place for digital biomarkers / measurements to reach their potential. Hear from leaders from multiple stakeholder groups as they untangle where we are and where we are going with regulation.

- How can we overcome the fragmented European landscape for increased adoption?
- What lessons are being learnt when dealing with regulatory bodies across Europe?
- What conversations need to be had to set standards and definitions across Europe, and with who?
- What advice do start-ups need to hear as they begin their regulatory discussions?
- How can we work together as an industry to continue to push forward regulatory discussions?

10:40am

Morning Refreshments and Networking

Case Study Showcase: Digital Biomarkers / Measurement Moving the Needle

11:10am Digital Biomarkers in Active & Healthy Aging

- Inspirational, academic perspective on how digital biomarker can be used to benefit older adults
- What is our current research and the vision for the future in terms of using digital biomarkers datasets to improve outcomes for patients?
- What are the enablers and prohibitors for that vision to come true

Katarzyna Wac, Full Professor of Computer Science & Quality of Life Technologies & mQoL Living Lab Director, [University of Geneva](#)

11:35am Digital Biomarkers in Parkinson's Disease

- Understand how digital biomarkers are moving the needle in Parkinson's Disease
- A look at clinical results from recent studies
- Discussion will focus around the long-term potential of digital biomarkers for patients in this space

12:00pm Digital Biomarkers in CNS Disorders

- Understand how digital biomarkers are moving the needle in CNS disorders
- A look at clinical results from recent studies
- Discussion will focus around the long-term potential of digital biomarkers for patients in this space

Garry Honey, Head of Biomarkers, [Lundbeck](#)

12:25pm

Lunch and Networking

1:30pm Closing Panel Discussion & Open Q&A: Where Does The Future Lie for Digital Biomarkers and Digital Measurements?

Recapping the previous two days, it is clear that digital biomarkers / measurements hold a lot of promise but we still have much to work on before they become the norm. This closing panel will summarise the key takeaways from the event and outline what we need to do as an industry moving forward to move the needle for patients in need.

- How can we continue working together to accelerate the development of this space?
- Who else needs to be part of this conversation to ensure that this industry can reach its full potential?
- What can we learn from other related industries and apply to this space?
- What do we expect to be talking about at The Digital Biomarkers & Digital Measurements Summit next year?
- What is each panellist's final piece of advice for the audience?

Katarzyna Wac, Full Professor of Computer Science & Quality of Life Technologies & mQoL Living Lab Director, **University of Geneva**

Luis Garcia-Gancedo, Director, Digital Biomarkers, **GSK**

Holger Bartos, Head, Global Patient Engagement, **Boehringer Ingelheim**

2:20pm End of Digital Biomarkers & Digital Measurements Summit