





Micky Tripathi National Coordinator for Health Information Technology, HHS Keynote

Sensor data integrations to power better decisions, faster, across healthcare & research

Public launch event

July 18, 2021 | 10.30am - noon ET



Jennifer Goldsack Chief Executive Officer, Digital Medicine Society, DiMe Moderator



Our purpose

DiMe is a global non-profit dedicated to advancing the **safe**, **effective**, **equitable**, and **ethical** use of digital products to optimize human health

We launched in May 2019...



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Digital Medicine Society Now Accepting Members

New nonprofit aims to advance digital medicine to optimize human health



NEWS PROVIDED BY Digital Medicine Society (DiMe) → May 14, 2019, 01:53 ET

BOSTON, May 14, 2019 /PRNewswire/ -- The Digital Medicine Society (DiMe), a Massachusetts nonprofit corporation with 501(c)(3) application pending, has launched.

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FIRST OPINION

DiMe: Calling all who serve in digital medicine

By JEN GOLDSACK, BEAU WOODS, and ERIC PERAKSLIS / JUNE 5, 2019





... and sit at the intersection of two communities



We deliver clinical quality work on a tech timeline

DivE

New knowledge & capabilities in the field spark new collaboration opportunities

Communication & education Community DiMe members, partners, & experts from Resources & publications generated by DiMe & thought leaders in the field are across tech & healthcare unite to exchanged between various stakeholders & collaborate & identify ways to overcome across the many disciplines in the field. barriers to success. Ē Greatest challenges & Actionable opportunities to advancing evidence-based the field resources Research Experts from across all disciplines address shared challenges through deep inquiry & data generation, creating actionable, evidence-based resources.

Housekeeping

- This session will be recorded
 - Slides and recording will be available on DiMe's webinar page after the session
- Participating in the discussion
 - **'Raise your hand'** in the Reactions and the moderator will unmute you, or
 - **Type your question** in the chat box
 - The chat is not saved and shared to promote open discussions... grab the links as we go!









Driving better decisions, faster, through the successful use of sensor generated data at scale in patient care and clinical research.







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V3 framework



Verification Analytical Validation Clinical Validation



BioMeT - Biometric Monitoring Technology



Clinical Utility

Measures that matter framework





Evaluating Connected Sensor Technologies Checklist

a DME Tour of Duty

Digital Biomarkers **NODE – Review Article**

Digit Biomark 2021;5:127–147 DOI: 10.1159/000515835 Received: January 25, 2021 Accepted: March 10, 2021 Published online: May 18, 2021

EVIDENCE Publication Checklist for Studies Evaluating Connected Sensor Technologies: Explanation and Elaboration

Christine Manta^{a, b} Nikhil Mahadevan^{a, c} Jessie Bakker^{a, d} Simal Ozen Irmak^e Elena Izmailova^{a, f} Siyeon Park^g Jiat-Ling Poon^h Santosh Shevadeⁱ Sarah Valentine^h Benjamin Vandendriessche^{j, k} Courtney Webster¹ Jennifer C. Goldsack^a

^a Digital Medicine Society, Boston, MA, USA; ^bElektra Labs, Boston, MA, USA; ^cPfizer Inc., Cambridge, MA, USA; ^d Philips, Monroeville, PA, USA; ^eTibi Health Inc., San Francisco, CA, USA; ^fKoneksa Health Inc., New York, NY, USA; ^g Geisinger Health System, Danville, PA, USA; ^hEli Lilly and Company, Indianapolis, IN, USA; ¹Independent Consultant, Mumbai, India; ^JByteflies, Antwerp, Belgium; ^kDepartment of Electrical, Computer and Systems Engineering, Case Western Reserve University, Cleveland, OH, USA; ¹Nymbly.work, Seattle, WA, USA

The Playbook: Digital Clinical Measures

Terminology supporting the essential guide for successful remote monitoring across *dinical research*, *clinical care*, and *public health*.











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The 3Ps of Digital Endpoint Value

Reimbursement for New Medical Products Developed using Digital Drug Development Tools

DHE





ALZHEIMER'S DISEASE & RELATED DEMENTIAS



Digital Measures Development

Identifying Patient Specified Digital Measures in Alzheimer's Disease and Related Dementias











Driving better decisions, faster, through the successful use of sensor generated data at scale in patient care and clinical research.

Source: https://www.dimesociety.org/tours-of-duty/sensor-data-integrations/



Three key stakeholders



Data Producer

Individuals & organizations generating sensor data for use in clinical decisionmaking in health care & research

Data Processor

Individuals & organizations that collect, store, adapt, retrieve, consult, transmit, manage, restrict, or destruct sensor data

Data Consumer

Individuals & organizations that rely on sensor data to drive their objectives and decision-making

Sensor data integrations toolkit contents

Sensor Data Architecture Toolkit



- Logical data architecture
- Reference data architectures
- Sensor data flow design tool

Sensor Data Standards Toolkit



- Interactive landscape of standards
- Standards in development

Organizational Readiness Toolkit



- Capabilities maturity model
- Capabilities maturity calculator

Implementation Toolkit



- 'ART' criteria
- Considerations & best practices
- 'ART' criteria prioritization tool

💽 Glossary



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http://bit.ly/Join-DiMe

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