

## **Sharing Clinical Research Data: An Institute of Medicine Workshop**

### **AGENDA**

**October 4 - 5, 2012**

**National Academy of Sciences Building, Room 125**

**2101 Constitution Avenue, N.W.**

**Washington, DC**

#### **Background:**

Pharmaceutical companies, academic institutions, advocacy organizations, and government agencies such as FDA and NIH have large quantities of clinical research data. Increased data sharing could facilitate scientific and public health advances, among other potential benefits to patients and society. Much of this information, however, is not transparent or shared beyond the data owner. More specifically, study results are not always published and where results are published, they typically only include summary-level data; participant-level data is privately held and rarely shared or revealed publicly.

This workshop will explore the benefits of and barriers to the sharing of clinical research data and will help identify strategies for enhancing sharing both within and across sectors. To facilitate identification of key issues and potential solutions, the workshop will focus on data resulting from preplanned interventional studies of human subjects. While recognizing the importance of other data sources such as observational studies and electronic health records, this focus was selected to encourage concrete problem-solving discussions over the course of a day-and-a-half meeting. Models and projects that involve sharing other types of data will be considered during the workshop to the extent that these models provide lessons and best practices applicable to sharing preplanned interventional clinical research data.

The workshop is being jointly organized by the Institute of Medicine's Forum on Drug Discovery, Development, and Translation; Forum on Neuroscience and Nervous System Disorders; National Cancer Policy Forum; and Roundtable on Translating Genomic-Based Research for Health.

#### **Meeting Objectives:**

- Examine the benefits of sharing of clinical research data, and specifically clinical trial data, from all sectors and among these sectors, including, for example:
  - Benefits to the research and development enterprise
  - Benefits to the analysis of safety and efficacy
- Identify barriers and challenges to sharing clinical research data
- Explore strategies to address these barriers and challenges, including identifying priority actions and “low-hanging fruit” opportunities
- Discuss strategies for using these potentially large data sets to facilitate scientific and public health advances.

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## Day One

8:30 a.m. Opening Remarks

SHARON TERRY, *Workshop Chair*  
President and Chief Executive Officer  
Genetic Alliance

### SESSION I: BENEFITS OF SHARING CLINICAL RESEARCH DATA

#### Session Objectives:

- Provide an overview of the benefits of sharing clinical research data, specifically clinical trial data, and discuss advantages and disadvantages of sharing participant vs. summary level data from individual trials as well as pooling data across multiple studies.
- Consider examples of scientific success stories that illustrate what can be accomplished when clinical trial data is shared.

8:40 a.m. Background and Session Objectives

WILLIAM POTTER, *Session Co-Chair*  
Co-Chair Emeritus  
Neuroscience Steering Committee  
FNIH Biomarkers Consortium

DEBORAH ZARIN, *Session Co-Chair*  
Director, ClinicalTrials.gov  
National Library of Medicine  
National Institutes of Health

8:50 a.m. **Fundamentals and Benefits of Sharing Participant-Level Clinical Trial Data**

ELIZABETH LODER  
Clinical Epidemiology Editor  
British Medical Journal

9:10 a.m. **Pooling Data from Multiple Clinical Trials to Answer Big Questions**

ROBERT CALIFF  
Director, Duke Translational Medicine Institute  
Professor of Medicine  
Vice Chancellor for Clinical and Translational Research  
Duke University Medical Center

9:30 a.m. **Panel Discussion: Perspectives on the Benefits of Sharing Clinical Trial Data**

- Data sharing – what does it mean from your perspective?
- Considering the benefits and risks of sharing clinical research data, how extensively should it be shared to maximize new knowledge and ultimately patient benefit?

***Panelists***

HARLAN KRUMHOLZ

Harold H. Hines, Jr. Professor of Medicine and Epidemiology and Public Health  
Yale University School of Medicine

MYLES AXTON

Editor

Nature Genetics

JESSE BERLIN

Vice President of Epidemiology

Janssen Research and Development, LLC.,

a Johnson and Johnson pharmaceutical company

***Panel Moderators***

WILLIAM POTTER, *Session Co-Chair*

Co-Chair Emeritus

Neuroscience Steering Committee

FNIH Biomarkers Consortium

DEBORAH ZARIN, *Session Co-Chair*

Director, ClinicalTrials.gov

National Library of Medicine

National Institutes of Health

10:30 a.m. BREAK

**SESSION II: DATA SHARING MODELS: DESIGN, BEST PRACTICES, AND LESSONS LEARNED**

Session Objectives:

- Present examples, best practices, and lessons learned from projects across the continuum of data sharing opportunities (e.g., rapid publication of participant-level data, increased access to participant-level data for qualified researchers, or maximizing the use of clinical research data that is currently held in centralized locations by requiring sharing or access to subsets of data).

- Distill best practices and lessons learned that can be applied broadly to new projects to maximize the use of data from individual trials and/or data pooling initiatives.

10:45 a.m. Background and Session Objectives

JEFFREY NYE, *Session Chair*  
Vice President and Head  
Neuroscience External Innovation  
Janssen Research and Development, LLC.,  
a Johnson and Johnson pharmaceutical company

10:55 a.m. *The Limits of Summary Data Reporting: Lessons from ClinicalTrials.gov*

DEBORAH ZARIN  
Director, ClinicalTrials.gov  
National Institutes of Health

11:10 a.m. *Models that Increase Access and Use of Data from Individual Clinical Trials*

**The DataSphere Project**

CHARLES HUGH-JONES  
Vice President, Medical Affairs North America  
Sanofi Oncology, on behalf of the Life Sciences Consortium  
CEO Roundtable on Cancer

**Yale/Medtronic Experience**

RICHARD KUNTZ  
Senior Vice President  
Chief Scientific, Clinical and Regulatory Officer  
Medtronic, Inc.

11:40 a.m. *Models that Foster Pooling and Analysis of Data*

**FNIH Biomarkers Consortium Adiponectin Project**

JOHN WAGNER  
Vice President, Clinical Pharmacology  
Merck & Co., Inc.

**Novel Methods Leading to New Medications in Depression and Schizophrenia (NEWMEDS) Consortium**

JONATHAN RABINOWITZ

Academic Lead, NEWMEDS Work Package on Advanced Data Analysis Techniques  
Bar Ilan University

12:10 p.m. *Series of Brief Presentations on Overcoming Challenges Facing Clinical Trial Data Sharing*

**Challenge #1: Permissions**

JENNIFER GEETTER

Partner

McDermott Will & Emery

**Challenge #2: Techniques and Methodologies**

JOHN IOANNIDIS [*via video conference*]

C.F. Rehnborg Chair in Disease Prevention

Stanford University

**Challenge #3: Culture**

KELLY EDWARDS

Acting Associate Dean, The Graduate School

Associate Professor, Bioethics and Humanities

University of Washington

12:40 p.m. Discussion among speakers, panelists, and audience

*Discussant:*

- Sally Okun, Health Data Integrity & Patient Safety, PatientsLikeMe

***Discussion Moderator***

JEFFREY NYE, *Session Chair*

Vice President and Head

Neuroscience External Innovation

Janssen Research and Development, LLC.,

a Johnson and Johnson pharmaceutical company

1:00 p.m. LUNCH

**KEYNOTE CASE STUDY: DISTRIBUTED SYSTEMS FOR CLINICAL RESEARCH  
INFORMATION SHARING**

1:30 p.m.      RICHARD PLATT  
Professor and Chair  
Department of Population Medicine  
Harvard Pilgrim Health Care Institute and Harvard Medical School

1:50 p.m.      Discussion with speaker and audience

*Discussion Moderator*

SHARON TERRY, *Workshop Chair*  
President and Chief Executive Officer  
Genetic Alliance

**SESSION III: STANDARDIZATION AND GOVERNANCE**

Session Objectives:

- Receive an update on recent legislative and regulatory language regarding standardization of clinical research data and discuss how stakeholders are designing and implementing data standardization plans in response.
- Discuss the relative cost-benefit of data conversion of existing trial data versus building an infrastructure to improve data collection and sharing moving forward.
- Present case studies from data sharing projects using different data standardization and governance models and consider lessons learned or best practices for the future.

2:00 p.m.      Background and Session Objectives

FRANK ROCKHOLD, *Session Co-Chair*  
Senior Vice President, Global Clinical Safety and Pharmacovigilance  
GlaxoSmithKline Pharmaceuticals Research and Development

LYNN HUDSON, *Session Co-Chair*  
Chief Science Officer and Executive Director  
Coalition Against Major Diseases  
Critical Path Institute

2:10 p.m.      **PDUFA Update on Data Standards**

RON FITZMARTIN  
Senior Advisor, Office of Planning and Analysis  
Center for Drug Evaluation and Research  
U.S. Food and Drug Administration

2:25 p.m. *Standardization to Facilitate Data Sharing: Opportunities and Limitations*

**CDISC Efforts to Support Clinical Research Data**

REBECCA KUSH  
President and Chief Executive Officer  
Clinical Data Interchange Standards Consortium

**HL7 Efforts to Support Clinical Care Data**

CHARLES JAFFE  
Chief Executive Officer  
Health Level 7 International

**Health Information Technology Perspective on Clinical Research Data Standards**

SACHIN JAIN  
Chief Medical Information and Innovation Officer  
Merck & Co., Inc.

3:10 p.m. Discussion with speakers and audience

3:30 p.m. BREAK

3:45 p.m. **Cost-Benefit Analysis of Retrospective vs. Prospective Data Standardization**

VICKI SEYFERT-MARGOLIS  
Senior Advisor, Science Innovation and Policy  
Office of the Chief Scientist  
U.S. Food and Drug Administration

4:00 p.m. *Case Studies: Standardization and Governance Models in Data Sharing*

**Critical Path Institute and Coalition Against Major Diseases (CAMD) Alzheimer's Clinical Trial Database**

CAROLYN COMPTON  
President and CEO  
Critical Path Institute

**Translational Medicine Mart (tranSMART)**

ERIC PERAKSLIS  
Chief Information Officer and Chief Scientist, Informatics  
U.S. Food and Drug Administration

4:30 p.m.

***Panel Discussion***

- Catalog new data sharing challenges not yet discussed and provide suggestions for overcoming these challenges.
- Given the data standardization and governance models discussed, suggest a framework to guide the development of new data sharing projects based on their purpose (e.g., regulatory approval with FDA, detecting safety signals, testing secondary hypotheses, etc.)

***Panelists***

LAURA LYMAN RODRIGUEZ  
Director  
Office of Policy, Communications and Education  
National Human Genome Research Institute

MEREDITH NAHM  
Associate Director for Clinical Research Informatics  
Duke Translational Medicine Institute

NEIL DE CRESCENZO  
Senior Vice President and General Manager  
Oracle Health Sciences

MICHAEL CANTOR  
Senior Director  
Clinical Informatics and Innovation  
Pfizer Inc.

***Panel Moderators***

FRANK ROCKHOLD, *Session Co-Chair*  
Senior Vice President, Global Clinical Safety and Pharmacovigilance  
GlaxoSmithKline Pharmaceuticals Research and Development

LYNN HUDSON, *Session Co-Chair*  
Chief Science Officer and Executive Director  
Coalition Against Major Diseases  
Critical Path Institute

5:30 p.m.

Adjourn day 1



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## Day Two

8:00 a.m. Opening Remarks

SHARON TERRY, *Workshop Chair*  
President and Chief Executive Officer  
Genetic Alliance

<b>SESSION IV: INCENTIVIZING POLICY AND CULTURAL SHIFTS TO ENHANCE DATA SHARING</b>
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Session Objectives:

- Receive an update on clinical trial data transparency decisions in Europe.
- Explore current incentives for and against (i.e., benefits and risks of) data sharing within and across sectors and suggest mechanisms to encourage stakeholders to engage in a culture of data sharing.
- Identify existing and potential strategies, including technology-based approaches, for protecting patient privacy and confidentiality while facilitating data sharing.

8:10 a.m. Background and Session Objectives

ROBERT HARRINGTON, *Session Chair*  
Arthur L. Bloomfield Professor of Medicine  
Chair, Department of Medicine  
Stanford University

8:20 a.m. *Clinical Trial Data Transparency: European Medicines Agency Perspective*

HANS-GEORG EICHLER  
Senior Medical Officer  
European Medicines Agency

8:40 a.m. *Clinical Research Data Sharing Practices and Attitudes*

ANDREW VICKERS  
Attending Research Methodologist  
Department of Epidemiology and Biostatistics  
Memorial Sloan-Kettering Cancer Center

8:55 a.m. ***Overview of Data Sharing Policies: Research Funders and Publishers***

STEVEN GOODMAN  
Associate Dean for Clinical and Translational Research  
Professor of Medicine & Health Research and Policy  
Stanford University School of Medicine

9:10 a.m. ***Series of Presentations: Incentives for Data Sharing Within and Across Sectors***

**Academic Perspectives**

PETER DOSHI  
Post-Doctoral Fellow  
Johns Hopkins University School of Medicine

BETH KOZEL  
Instructor of Pediatrics  
Division of Genetics and Genomic Medicine  
St. Louis Children's Hospital and Washington University School of Medicine

**Federal Research Funder Perspective**

JOSEPHINE BRIGGS  
Director, National Center for Complementary and Alternative Medicine  
Director, National Center for Advancing Translation Sciences, Division of Clinical  
Innovation  
National Institutes of Health

9:55 a.m. Discussion with speakers and audience

10:30 a.m. BREAK

10:45 a.m. ***Facilitating Patient Ownership of Clinical Trial Data: Technical Challenges and Opportunities***

JOHN WILBANKS  
Director  
Sage Bionetworks

DEVEN MCGRAW  
Director, Health Privacy Project  
Center for Democracy and Technology

11:15 a.m. Discussion with speakers and audience

## SESSION V: NEXT STEPS AND FUTURE DIRECTIONS

### Session Objectives:

- Discuss key themes from the workshop.
- Based on workshop presentations and discussions, identify potential next steps and priority actions for data sharing stakeholders to take action.
- Highlight potential opportunities and challenges that are currently on the horizon but may become more salient as technology evolves and/or data sharing becomes more pervasive.

11:30 a.m. Background and Session Objectives

SHARON TERRY, *Workshop Chair*  
President and Chief Executive Officer  
Genetic Alliance

11:40 a.m. ***Session Chair Reports [5 minutes per Session]***

WILLIAM POTTER, *Session I Co-Chair*  
Co-Chair Emeritus  
Neuroscience Steering Committee  
FNIH Biomarkers Consortium

DEBORAH ZARIN, *Session I Co-Chair*  
Director, ClinicalTrials.gov  
National Library of Medicine  
National Institutes of Health

JEFFREY NYE, *Session II Chair*  
Vice President and Head  
Neuroscience External Innovation  
Janssen Research and Development, LLC.,  
a Johnson and Johnson pharmaceutical company

FRANK ROCKHOLD, *Session III Co-Chair*  
Senior Vice President  
Global Clinical Safety and Pharmacovigilance  
GlaxoSmithKline Pharmaceuticals Research and Development

LYNN HUDSON, *Session III Co-Chair*  
Chief Science Officer and Executive Director  
Coalition Against Major Diseases, Critical Path Institute

ROBERT HARRINGTON, *Session IV Chair*  
Arthur L. Bloomfield Professor of Medicine  
Chair, Department of Medicine  
Stanford University

12:00 p.m. *Closing Discussion with Session Chairs, Panelists, and Audience Led by Workshop Chair*

JOSEPHINE BRIGGS  
Director, National Center for Complementary and Alternative Medicine  
Director, National Center for Advancing Translation Sciences, Division of Clinical  
Innovation  
National Institutes of Health

MICHAEL ROSENBLATT  
Executive Vice President and Chief Medical Officer  
Merck & Co., Inc.

JAY "MARTY" TENENBAUM  
Founder and Chairman  
Cancer Commons

JANET WOODCOCK  
Director, Center for Drug Evaluation and Research  
U.S. Food and Drug Administration

12:45 p.m. Adjourn