

CENTER FOR GLOBAL CLINICAL RESEARCH DATA

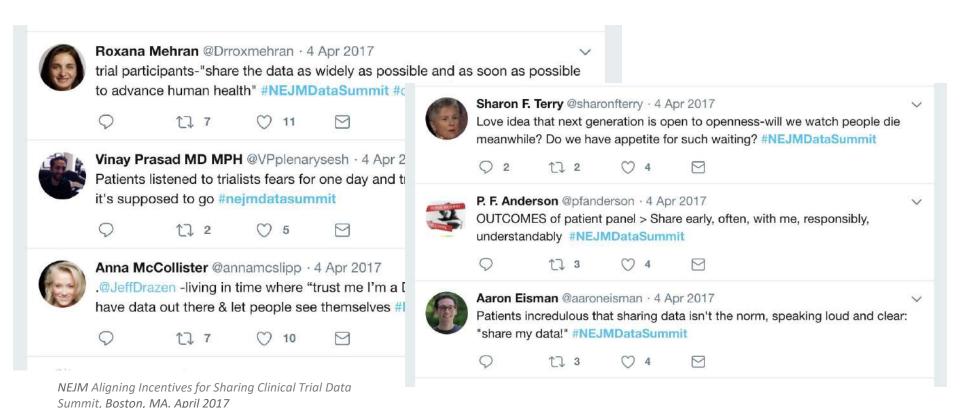
Vivli Clinical Research Data Sharing: Share. Discover. Innovate.

Ida Sim, MD, PhD Vivli Co-Founder Professor of Medicine, UCSF February 11, 2020

Vivli: The Difference Data Re-Use Can Make



Patients Expect Data Sharing and Reuse



Balancing Risks and Benefits



Privacy

Maximizing the value of the data collected respects participants' contributions

Protecting participant privacy

Approaches to Sharing Human Data

Туре	Key Features	Examples
Open access	Anyone can access, simple account creation, simple on-line data use agreement (DUA)	Health CAN, EMA, Project Datasphere
Managed access	 for scientific purposes only (standard request form) (independent) review process secure environment for data access clear legal framework 	Vivli, CSDR, SOAR, VISTA
Restricted access	Invitation only, access only to those who provide data	DataCelerate, IBD Plexus

Introducing Vivli

THE ENTITY

- Non-profit organization
- Convening function
 - Biomedical industry (pharma, bio, device)
 - Academia
 - Non-profit funders and foundations
 - Government (funders and regulators)
 - Patient/patient advocates
- Governance and policy
 - Harmonizing language & agreements
 - Move culture of data sharing
- Advocacy
 - Lowering barriers
 - Promoting incentives
- Oversight of Implementation

THE PLATFORM

- A user-friendly, secure, state-of-the art data sharing and computing platform
- Serving the international community, including trials from any disease, country, sponsor, funder, or investigator
 - Open search
 - Robust security
 - Modern tools and technologies



Vivli Members

















































Vivli by the numbers ...TODAY



Vivli is a Global Data Platform – Agnostic to Disease, Funder or Data Contributor

Irritable Bowel Syndrome Bacterial Peritonitis Glaucoma Endometriosis Kidney cancer Non Hodgkins Lymphoma Epilepsy HIV Breast cancer Cystic Fibrosis Diabetes Mellitus Insomnia Coronary Artery Bypass Surgery Schizophrenia Bariatric Obesity Atrial Fibrillation Fibromyalgia Cancer Traumatic Brain injury Trauma
Huntington's Disease Dabigatran Atorvastatin Crohn's Diabetes Hepatitis CHepatitis Autism Hidradenitis Disease Hypertension Myocardial Arthritis Psoriasis Statin Endometriosis Depression Interleukin-6 Zoloft
Tysabri Tuberculosis Depression Heart-Failure Bipolar disorder Cannabinoids Asthma Lung cancer Lymphoma Multiple Sclerosis Sickle Cell disease Atopic Dermatitis Tumor burden Vitamin D Total Joint Replacement Cancer Vedolizumab Pulmonary Arterial Hypertension Infarction Hemophilia Sleep Apnea Edoxaban Type 1 Diabetes Mellitus HPV Humira Colorectal Cancer Osteoarthritis Lymphoma Stroke Ulcerative Colitis Vitiligo

How Vivli works

SEARCH Search Vivli

platform for information about available studies.

REQUEST

RequestIPD Data sets.

Each Data Request will be **reviewed** according to contributors' publicly stated requirements.



ACCESS

Data from approved requests can be accessed in Vivli's secure research environment or downloaded with permission.



ANALYZE

Use robust

analytical tools
to combine and
analyze multiple
data sets.



DISSEMINATE

research results will be assigned a DOI.

Researchers may use the Vivli platform to meet their **publication** requirements.







Secure Environment Bridges Multiple Platforms

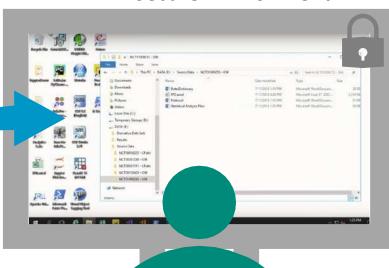


Johnson Johnson





Vivli Secure Environment



30+ packages

- STATA
- MS Office
- R
- Jupyter Notebook
- Python
- SAS





Harmonization for Efficiency

Harmonization based on wide stakeholder consultation reduces friction for both data contributors and data users:

- Harmonized Data Request Form
- Harmonized Data Use Agreement
- Harmonized Data Contributor Agreement





Usage Metrics (as of January 1, 2020)

GLOBAL HITS TO VIVLI	57,030 🕀
STUDIES AVAILABLE FOR SHARING	4,788 🕀
DATA CONTRIBUTORS	22 🕀
DATA REQUESTS SUBMITTED	91 🕀



Vivli FAIR Data Sharing

Findable

- metadata model, annotated using Cochrane vocabulary (SNOMED, WHO ATC, MedDRA)
- Dataset DOIs minted by DataCite

Accessible

- from fully downloadable to available only in secure MS Azure environment
- Interoperable, Reusable
 - SDTM format recommended but not required
 - No requirement for common variables



