



American Society of Hematology

Helping hematologists conquer blood diseases worldwide



ASH Registry: An Agile Data Repository for Enabling Concurrent
Clinical Research Initiatives

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Design Principles that push boundaries

1. **Fully portable** data and software (*owned by ASH*)
2. **Scale rapidly** and accommodate concurrent initiatives
3. **Support all disease areas** in the ASH portfolio
4. **Facilitate curation** of data from disparate sources
5. **Maximize reusability** of all data (*pluripotent modeling*)
6. **Deliver tailored data** to members, industry, and academia



Launch Projects that span the health continuum

Multiple Myeloma

- Malignant blood disease with well-characterized patient cohorts
- Rich clinical research findings exist; but are siloed in disparate institutions
- **Integrate these findings into one, unified MM community data asset**
- **Iteratively enhance with longitudinal & social determinants data sources**

Sickle Cell Disease

- Nonmalignant blood disease with poorly-characterized patient cohorts
- Limited research focus; inconsistent diagnosing and standards of care
- **Facilitate creation of a clinical trials network & data asset**
- **Iteratively enhance with patient-reports & industry collaborations**



Reassuring Trends from Theory to Application

Theory

“The Pluripotent Rendering of
Clinical Data for Precision
Medicine”

Chute, C. and Huff, S.

Johns Hopkins, Intermountain

*Studies in Health Technology
and Informatics, August 2017*

Application

”Scalable and Accurate Deep
Learning with Electronic Health
Records”

Rajkomar, A., Oren, E. et al.

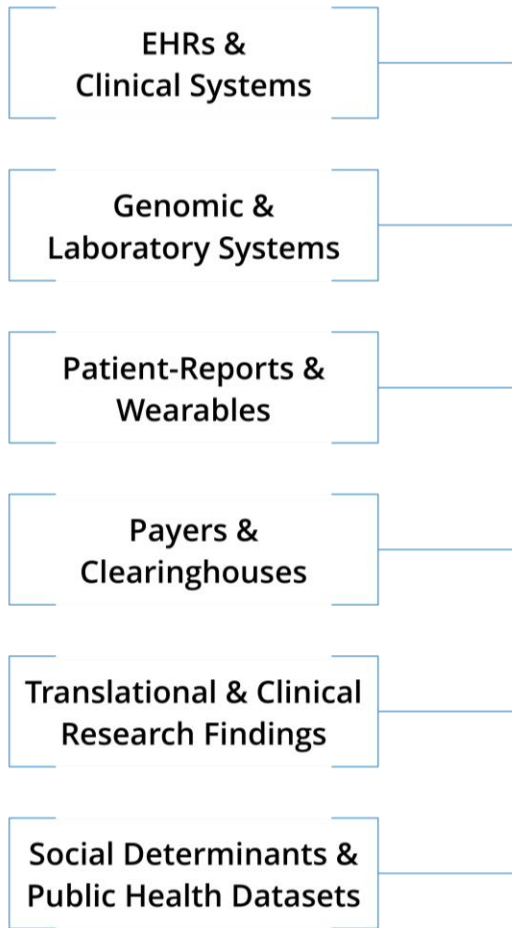
Google, UCSF, Stanford, U Chicago

*Nature Partner Journals:
Digital Medicine, May 2018*



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Supports Any
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Across
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