



Building the Blueprint March 2022 - Workshop

Working Group 3
Ultra-Rare Disorders

WG3 Organization



• Research priorities for Ultra-Rare IBDs divided into three categories

Focus Area	Chair
Diagnostics, Systems Biology, Mechanistic Science	Diane Nugent, MD
Clinical, Data Collection, Research Infrastructure	Suchitra Acharya, MD
Regulatory Processes For Novel Therapeutics & Required Data Collection	Amy Shapiro, MD



WG 3: Subgroup participants



Subgroup A:

Diagnostics, Systems
Biology, Mechanistic Science

Diane Nugent, MD [Lead]

Catherine Hayward, MD, PhD

David Ginsburg MD, PhD

Alisa Wolberg, PhD

Roberta Palla, PhD

Rajiv Pruthi, MD

Kate Nammacher [NHF]

Subgroup B:

Clinical, Data
Collection, Research
Infrastructure

Suchitra Acharya, MD [Lead]

Michael Tarantino, MD

Michael Recht, MD, PhD, MBA [ATHN]

Camille Bedrosian, MD [UltraGenyx]

Roberta Palla, PhD

Marzia Menegatti, PhD

Maggie Miller, MS

Kim Baumann, PT, MPT

Kerry Hansen, RN, BS

Subgroup C:

Regulatory Processes for Novel
Therapeutics & Required Data
Collection

Amy Shapiro, MD [Lead]

Peter Marks, MD, PhD [FDA]

Deya Corzo, MD [Sigilon]

Michael Recht, MD, PhD, MBA [ATHN]

Kai Brown, MS, MBA [NHF Board]

Rebecca Bialas, MD [PLGD Fdn]

Benny Sorensen, MD, PhD [Codiak Biosciences]

Skye Peltier, PA-C [Community Member]

Amar Haidar [Community Member]



A. Diagnostics, Systems Biology, Mechanistic Science

- Does adequate diagnostic testing exist for each disorder?
- Do physicians have adequate access to diagnostics?
- Can diagnostic testing capabilities, availability be centralized?
- Does there exist a national mechanism to identify the genomics or associate & delineate phenotypes within each disorder?
- Can we identify disease modifiers, genes associated with rare disorders through national genomic banking?

B. Clinical, Data Collection, Research Infrastructure

Clinical

- Do providers have adequate knowledge of phenotype, access to required diagnostics?
- Do defined severity categories exist to predict outcomes, guide treatment?
- Do treatments exist to address clinical manifestations & prevent sequelae? Global vs. specific treatments?
- Can affected individuals access best care?
- What are QoL impacts & are they collected?

Data Collection

- What is centralized data collection capability to define natural history, treatments, outcomes?
- Can it fulfill post-approval regulatory requirements?

Research Infrastructure

- What are impediments preventing enrollment, follow-up for research in ultra-rare disorders?
- Does a national infrastructure exist for centralized testing, sample banking?
- Does national infrastructure exist for data collection to support research?
- Is collected data accessible for care & further research?

C. Regulatory Processes For Novel Therapeutics & Required Data Collection

- Are there adequate FDA pathways for very small populations to allow more rapid, less costly access to new therapies?
- What is the need for postapproval data collection if therapies approved on minimal patients/data sets?
- How can we incentivize product development for ultra-rare disorders?
- How can approval for off-label use of licensed therapies be obtained without associated prohibitive cost?