

# **Rachel Rath, MPH**

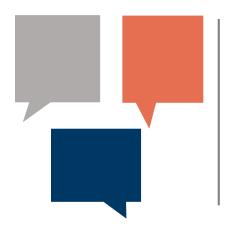
NESTcc Deputy Director

NESTcc Call For Concepts Public Webinar

Targeted Real-World Evidence Test-Cases: Leveraging Patient-Generated health Data

July 31, 2018





#### Welcome

**NESTcc Overview and Current Activities** 

**Review of Call for Concepts for Targeted Test-Cases** 



#### **Resources:**

Open Opportunity for RWE Test-Cases Leveraging Patient-Generated health Data <u>announcement</u> and <u>submission form</u>

#### **TERMINOLOGY DEFINITIONS**

**NESTcc Data Network:** A network of organizations to help determine current capabilities, gaps, and priority areas of Real-World Data (RWD) and Real-World Evidence (RWE) for the medical device landscape.

**NESTcc Network Collaborator:** A range of organizations, companies, and collaborators that will be a resource of highquality Real-World Data that include but are not limited to: Health Systems, Health Payers, Registries, Patient- or Device-Generated Data, Analytics Offerings, etc. These partnerships will help set data quality and methods standards for clinical studies due to their access to EHR and private claims data as well as linkage data with coverage information.

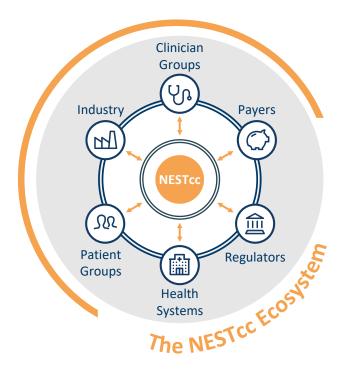


#### **NESTcc Mission Statement**

To accelerate the development and translation of new and safe health technologies, leveraging Real-World Evidence (RWE) and innovative research.

#### **History of NESTcc**







Establish initial **NESTcc Data Network** with 11 Network Collaborators

Implement Test-Cases with manufacturers and NESTcc Network Collaborators

Establish Data Quality and Methods standards as well as initial NESTcc operating processes

Identify **optimal uses of NESTcc Data Network and gaps** (e.g. UDI) that need addressing

Expand NESTcc Data Network to include additional Network Collaborators

## CURRENT DATA NETWORK ACTIVITIES

#### **BUILDING NESTCC'S DATA NETWORK**



NESTcc has established relationships with Network Collaborators to advance evaluation and use of high-quality RWD from various sources.

## TO DATE, MEMORANDA OF UNDERSTANDING (MOUS) HAVE BEEN SIGNED WITH 12 NETWORK COLLABORATORS:





Lahey Hospital & Medical Center





















## **BUILDING NESTCC'S DATA NETWORK**

NESTcc surveyed its Data Network to determine current capabilities, gaps, and priority areas.

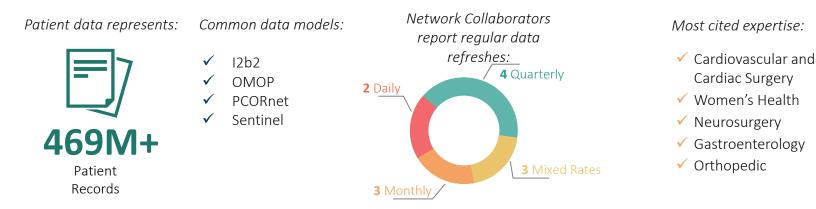


- Duke University Health System HealthCore • Lahey Clinic • Kaiser Permanente • Mayo Clinic
- MDEpiNet Mercy OneFlorida PEDSnet • Vanderbilt University • Weill-Cornell Medical Center • Yale New Haven Health System

Survey respondents represent:



**Completed Capabilities Surveys** 



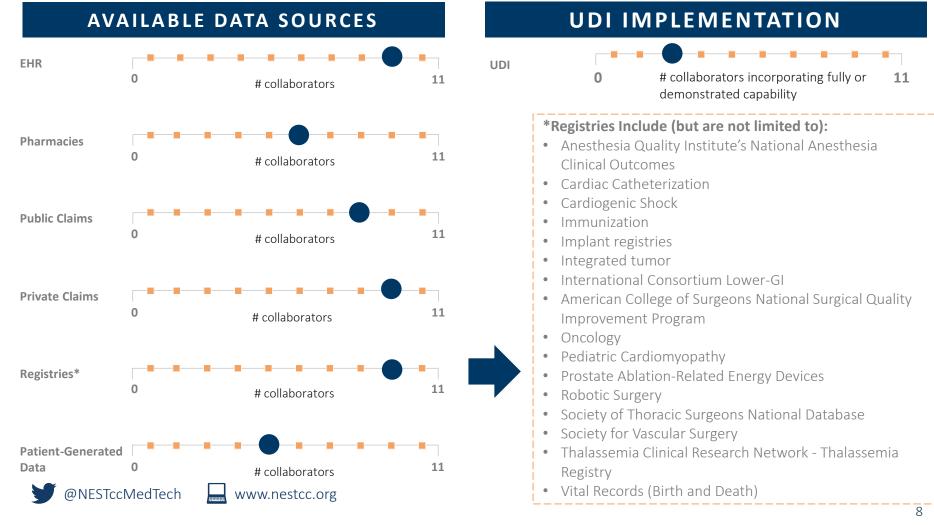


for health Technology

## **CLOSER LOOK AT NESTCC'S DATA SOURCES**



The collaborators comprising the NESTcc Data Network have access to a range of available data sources, including those listed below.



## **ROUND 1 RWE TEST-CASES: SUMMARY OF PROJECT SLATE**



# High-level concepts of each test-case currently in development are summarized below:

TOTAL-PRODUCT LIFE CYCLE (TPLC) ALIGNMENT	PRODUCT(S)	AREA
Label Expansion	Stent graft component product	Vascular
Pre-market Submission	Topical Skin Adhesive	Dermatology
Post-market Surveillance	Knee replacement	Orthopedics
Post-market Surveillance	Bone Distractor	Orthopedics
Post-market Surveillance	Spinal decompression device	Orthopedics
Move from General to Specific Indication	Device used for soft tissue ablation	Surgery (Oncology)
Label Expansion	Catheters used in Rx of Atrial Fibrillation	Cardiovascular
Patient Management Clinical Guidelines	Anti-coagulation dosage post mechanical heart valve (MHV) replacement	Cardiovascular

TARGETED RWE TEST-CASE CALL FOR CONCEPTS

## **CONCEPTS FOR TARGETED TEST-CASE ANNOUNCEMENT**



NESTcc is interested in receiving recommendations from industry, health system providers, health payers, academia, and non-profits for test-cases using PGD that could be executed with NESTcc's Network Collaborators.

#### **MISSION OF THE TEST-CASES**

Test-case concepts should seek to understand the patient perspective on the health outcomes associated with the treatment of their condition. The evidence generated should constitute useful inputs into regulatory decision-making. The goals of the test-cases include:



Explore the feasibility of generating and using patient-data for regulatory and coverage purposes using the NESTcc Data Network and designing the infrastructure necessary to support this.



Improve understanding of the opportunities and challenges of using the NESTcc Data Network to support studies that capture and evaluate PGD to identify and measure health outcomes that matter most to patients.



Provide learnings to advance patient input and involvement in the regulatory process.



Contribute to NESTcc's development of operational processes (e.g., contracting, IRB, data sharing agreements, publication policies).

## **CONCEPT DETAILS AND REQUIREMENTS**



NESTcc is interested in receiving a broad range of test-cases. The following eligibility criteria were informed by the first round of test-cases submitted.

#### **ELIGIBILITY CRITERIA**

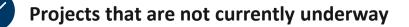


#### Concepts may be submitted by:

- Medical device, imaging, and diagnostics technology manufacturers
- Multi-industry collaborations (submitting through an organization or association as a third-party convener)
- Health system providers



- Health payer groups
- Academia
- Non-profits, including advocacy groups





**Projects leveraging PGD** 



## SOURCES OF PGD FOR TEST-CASE ANNOUNCEMENT



Test-cases will provide a more comprehensive understanding of the health outcomes that matter to patients and provide insights into how these studies could inform regulatory decision-making.

#### SOURCES OF PATIENT-GENERATED DATA

Test-case concepts will inform the development of studies that collect and analyze patientgenerated data, using quantitative and/or qualitative methods, and that will include one or several of the following categories (as appropriate for the study question):



Patient-reported data, such as responses to questionnaires, symptom and behavior tracking, and validated patient-reported outcomes (PROs)



Task-based measures collecting objective measurements of a person's mental and/or physical ability to perform a test consisting of a defined task or set of tasks (e.g. 6-minute walk test)



Sensor data measuring a person's daily activities, mental state, or physiological status from wearables and remote sensors



Patient preference information (PPI) reporting patient valuations of benefit and risk related to relevant device types and specific illnesses and conditions



Patient experiences and general patient perspectives on their care

## **EXAMPLE OF A POTENTIAL PGD TEST-CASE**



# The following is an example of a potential test-case concept:



For patients having undergone knee replacement surgery, the study will identify which outcomes matter most to patients.

#### **Test-Case Example:**

This study could involve the collection of patient-reported outcomes (e.g. knee pain, overall satisfaction with surgery results, work status, health related quality of life).

If relevant to the understanding of patient perspectives, the study could also collect clinical outcomes (e.g. mortality, readmission rates, reoperation and revision rates).

The study could seek to evaluate patient preferences with respect to benefits and risks of the intervention.





Submission Process	Review Process	Selection Process
Phase I September	Phase II September - January	Phase III February (Anticipated)
<ul> <li>Organization submits a test- case concept to NESTcc.</li> <li>Test-case information will be kept confidential.</li> </ul>	<ul> <li>Each concept will be reviewed by two to four reviewers from MDIC staff and the FDA.</li> <li>Network Collaborators will assess feasibility and interest through an opt-in/opt-out process.</li> <li>NESTcc staff will use responses to match concepts and Network Collaborators for feasible projects.</li> <li>Full proposals and budgets will be developed through a collaborative process between the submitting group and the matched Network Collaborators.</li> </ul>	<ul> <li>NESTcc will select up to 4 test-case concepts.</li> <li>The recommended projects will be presented to the NESTcc Selection Team and the MDIC Board for approval.</li> </ul>





NESTcc may request additional information from submitters to facilitate its matching process.



Funds from NESTcc will be available to support the selected test-cases. Funding will go to Network Collaborators participating in the projects.



NESTcc will request full project proposals and budgets at later date.



NESTcc anticipates providing \$250-550k per project, depending on the award structure and number of participating Network Collaborators participating in each project.



## SUBMISSION REMINDERS

- Submissions for test-case concepts should be submitted to NESTcc Project Manager, Tiffany Abushaikha, at NESTcc@mdic.org.
- The deadline for submitting concepts is 5p.m. EDT on September 19, 2018. ٠
- A required submission template is available <u>here</u>, and can also be found at https://nestcc.org/opportunities/.
- The concept submission must not exceed two (2) pages. ٠
- Please direct all questions to the NESTcc team at NESTcc@mdic.org. ٠



#### **OPPORTUNITY TIMFLINF**







