

# The Patient Voice

**Parent** JOIN THE FIGHT.  
END DUCHENNE.  
**Project**  
**Muscular**  
**Dystrophy**

Ryan Fischer  
SVP Community Engagement

“The value placed on the benefits and risks of any treatment can only *truly be understood* by the **patients/caregivers** themselves, for it is *they* who have to make the treatment choices and it is *they* who bear any associated risks.”

(~ *quote from a health economist at a recent conference*)



# Gap between scientific data and patient experience



- Disease burden & unmet need
- Outcome measures and endpoints
- Preferences w/ risks, benefits, uncertainty
- Symptom priorities
- Quality of life
- Meaningful benefit

# Patient/Caregiver Data Takes Many Forms...

## Qualitative Data (*Describes*)

- ❖ Focus Groups
- ❖ Open Ended Survey Questions
- ❖ Testimonies
- ❖ Interviews (in person or phone)
- ❖ Town halls

## Quantitative Data (*Defines*)

- ❖ Patient Registries
- ❖ Patient Reported Outcomes
- ❖ Quality of Life Instruments
- ❖ Polling data
- ❖ Surveys

## Preference Data (can do both)



# Preference Studies – Quantifying the patient voice

## 5 studies completed to date

- Caregivers preferences
- Symptom priorities
- Meaningful pulmonary outcomes
- Multi-stakeholder preferences
- Preferences for emerging gene therapies

## Underway

- Global preferences for treatments

## Academic collaborators

Dr. John Bridges (The Ohio State)

Nonie Crossnohere (JHU)

Holly Peay (RTI International)

## Funding and participation on advisory groups:

- Pfizer
- Everylife Foundation
- Santhera Pharmaceuticals
- Solid Biosciences



# Stated Preference Methods

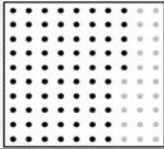
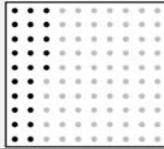
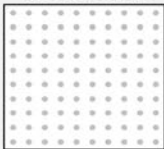
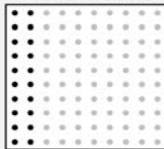
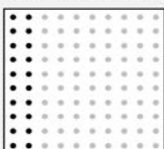
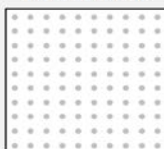
- Method people

Quantita

— How

— **How**

— **How do decision**

Task 2		
	Drug A	Drug B
Does it slow disease progression?	Slows for 5 years	Slows for 3 years
How many people would benefit?	75% 	25% 
What is the extra risk of kidney damage?	No extra risk 	20% extra risk 
What is the extra risk of fracture?	20% extra risk 	No extra risk 
Which drug would you choose?	<input type="checkbox"/>	<input type="checkbox"/>

what

in

fit?

ng a

# Consistent themes learned from the data

- Stopping or slowing disease progression are *both* valued treatment outcomes, patients and caregivers are willing to take on risk and uncertainty to achieve these outcomes.
- The community prioritizes protecting muscle function and treatments targeting secondary symptoms of cardiac and pulmonary function most and are willing to take on risks, burdens, and uncertainties for benefit.
- An appropriate balance of benefits and risks may be different for people with Duchenne or Becker, their caregivers, and the professionals who develop treatments and manage medical care.
- Decision making for clinical trial participation is mainly driven by the chance for benefit (skeletal, cardiac, pulmonary) over risks, burdens and uncertainties.



# Why this matters

- These studies allow us to engage a large group of community members in patient centered research
- Your contributions to these studies enable us to better communicate your preferences to a range of stakeholders in the drug development ecosystem
- Preference change over time, we will continue doing these studies in order to accurately reflect the current environment
  - Global study underway (6 countries)
  - Thank you to everyone who has contributed data!



# THE DUCHENNE REGISTRY

**Parent  
Project  
Muscular  
Dystrophy**

JOIN THE FIGHT.  
END DUCHENNE.

**THE STRENGTH OF  
THE REGISTRY IS YOU**

Your data is critical in the fight to end Duchenne

[Join](#)



# The Duchenne Registry

- Online self-reported registry for individuals with Duchenne or Becker, as well as carrier females
- Established by **PPMD** in 2007, in collaboration with Emory Genetics and the Centers for Disease Control
- Largest patient reported registry globally



Ann Martin, MS, CGC



Jen Ely, MS, CGC



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### **Inform understanding on NH of DBMD**

- Family Hx and Location
- Genotype/phenotype
- Care interventions
- Collect PROs on disease



### **Patient Resources**

- Free genetic counseling
- Free genetic testing
- Clinic trial education
- Trial Finder
- Decision making tool



### **Drug Development**

- Recruit for studies
- Prep to trial
- PROs on standard of care



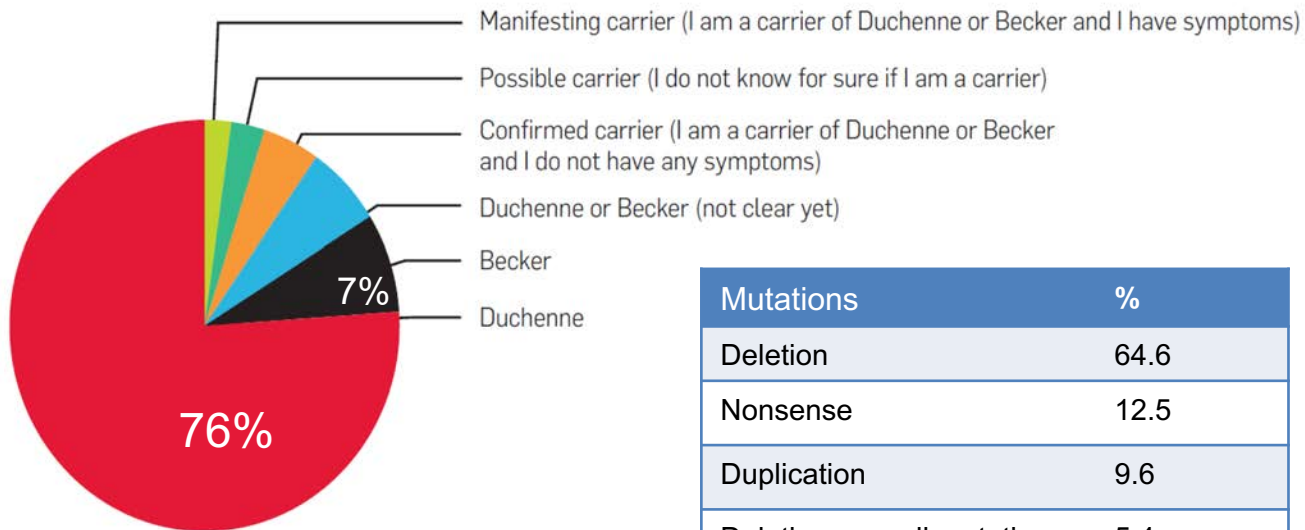
### **Share information**

- Individuals with DBMD
- Families and caregivers
- Healthcare providers
- Researchers
- Industry
- Regulators
- Payers

# **REGISTRY AIMS AND GOALS**

## Diagnosis

5000+ Registrants



Mutations	%
Deletion	64.6
Nonsense	12.5
Duplication	9.6
Deletion – small mutation	5.4
Splice site	3.9
Duplication small mutation	2.2
Insertion	0.8
Missense	0.5
other	0.4

Registry Modules	
Genetic information	Behavior
Medications	Bone Health
Muscle Function	Family History
Insurance	Pain
Cardiac	Steroids
Respiratory	Diagnosis



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# 10-Year Registry Report

## IMPACT

Over 5000  
Registrants

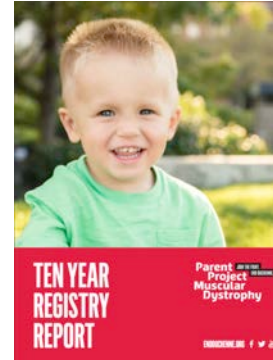
115  
countries

100+  
Trials and  
Studies  
Recruited

Data  
collected  
over  
12 years



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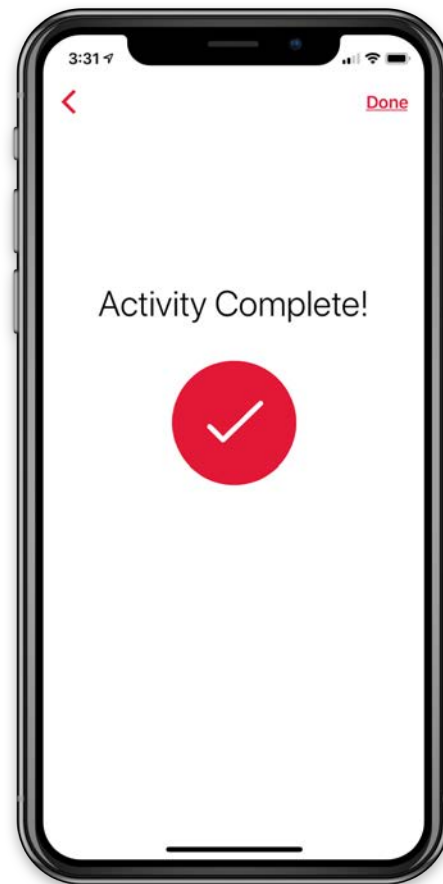
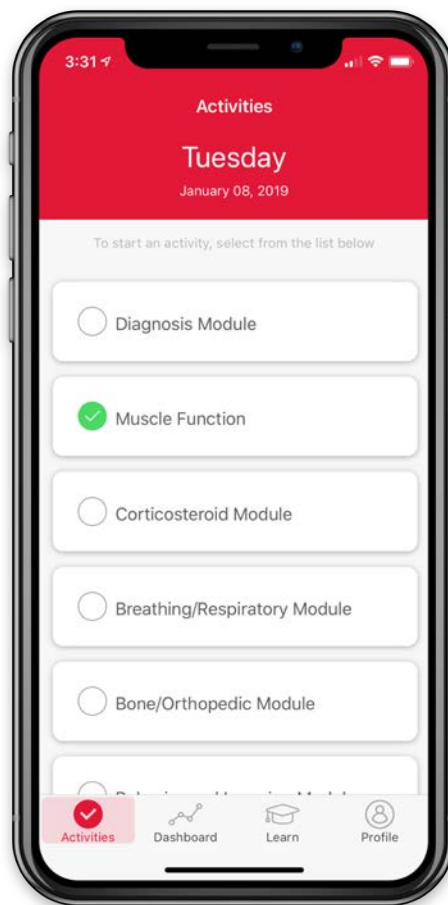
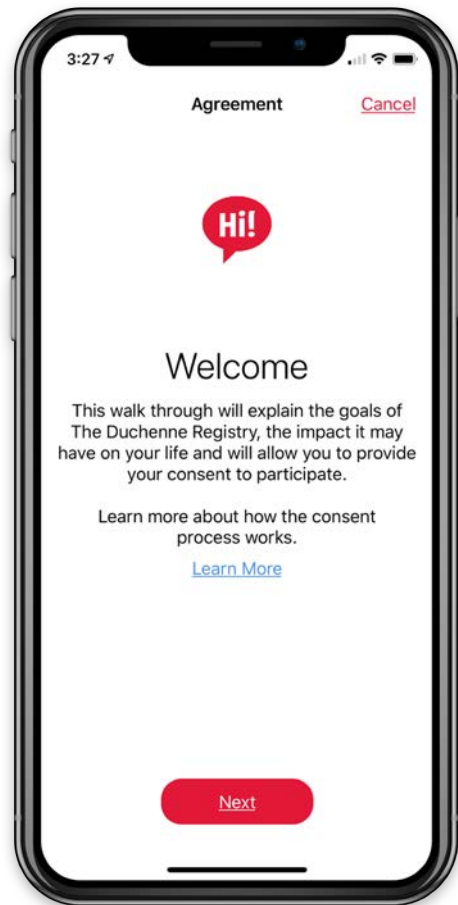


# The NEW Duchenne Registry Platform (app based)

*Set to launch late summer*

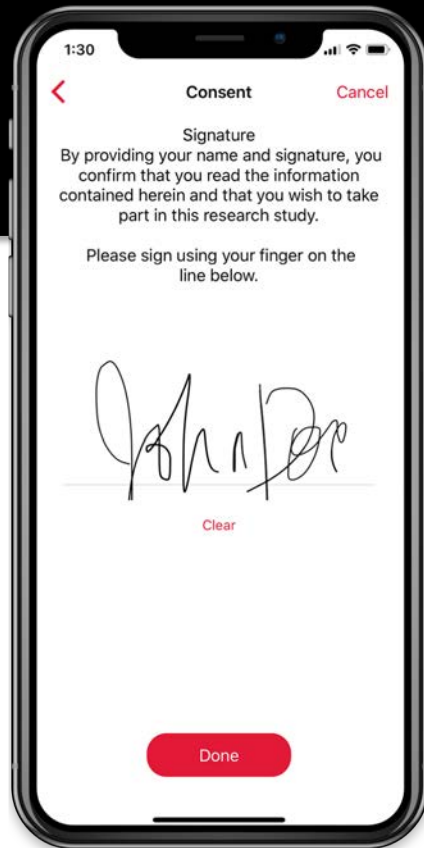
In partnership with

# THREAD<sup>TM</sup>



# Consent Process

- Quick and straight forward consent process to allow for your de-identified (anonymous) data to be used for research purposes





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Project  
Muscular  
Dystrophy**

**DUCHENNE OUTCOMES**

**RESEARCH INTERCHANGE**

# DUCHENNE OUTCOMES RESEARCH INTERCHANGE

The Interchange combines **patient-reported data**, **clinician-reported data** (on approved therapies), and data from **electronic health records** (care visits), to analyze and understand *real world evidence* about the Duchenne and Becker progression.

- PPMD partnered with **Sarepta Therapeutics** to launch the Interchange
- Data from the Duchenne Registry is the first patient reported data included in the Interchange  
We are looking to marry the PRO data with Electronic Health Records.
- Data from patients on Exondys 51 (eteplirsen) will be the first post-market surveillance data in the Interchange
- The Interchange is built as a model for additional Industry partners to be added on after the pilot of Exondys 51 (Sarepta's EVOLVE Registry)

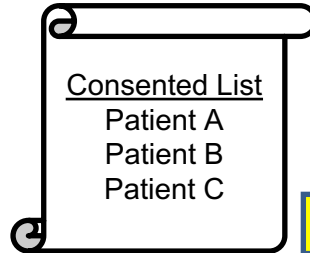
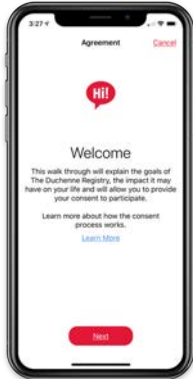


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# PPMD approach to capturing Electronic Health Records with Clinical Care Centers –

*How PPMD will enhance the new Duchenne Registry*

You will complete an informed consent in the new PPMD THREAD platform giving PPMD permission to pull Electronic Health Records



PPMD prepares a list for each institution of all consented patients seen at that institution

HIPPA Compliant  
Data Transfer



Institution shares with PPMD data elements in EHR for these patients through a secure API

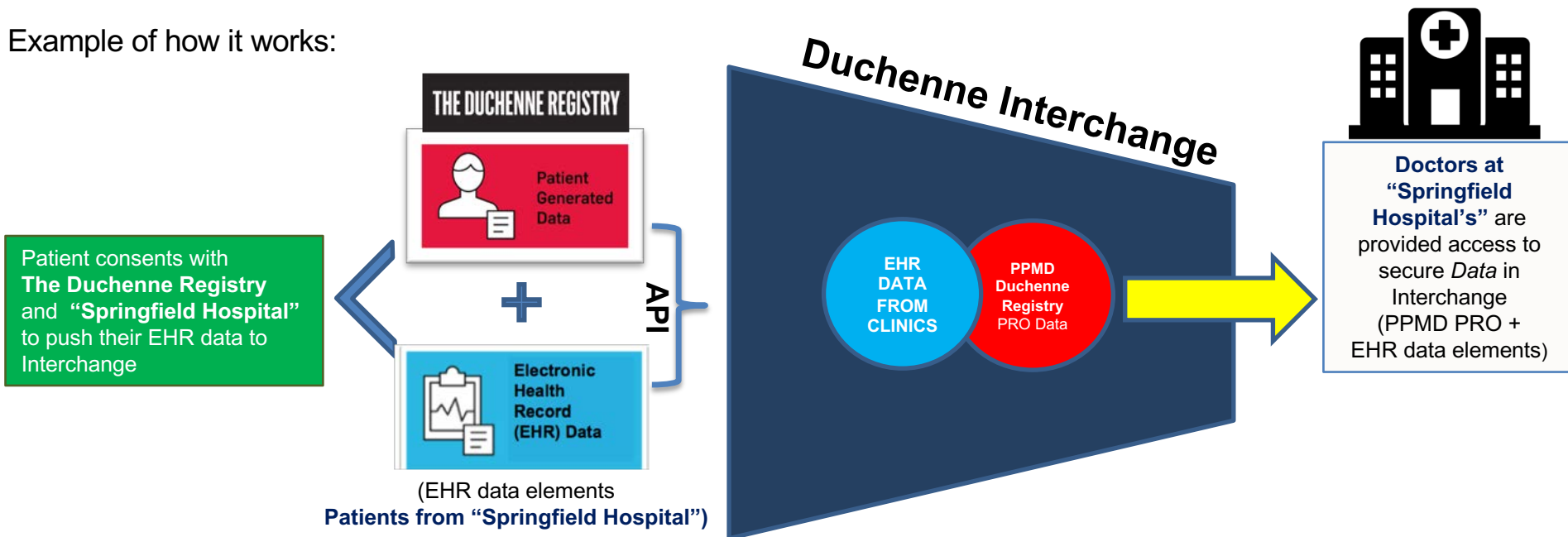
Secure API

Data is ingested into new Interchange

Duchenne Interchange

# PPMD Electronic Health Record Capture

Example of how it works:



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The good news for clinics!  
We are NOT asking clinics to enter  
anything into a *new* database

# EVOLVE - Sarepta's Registry on Approved Therapies

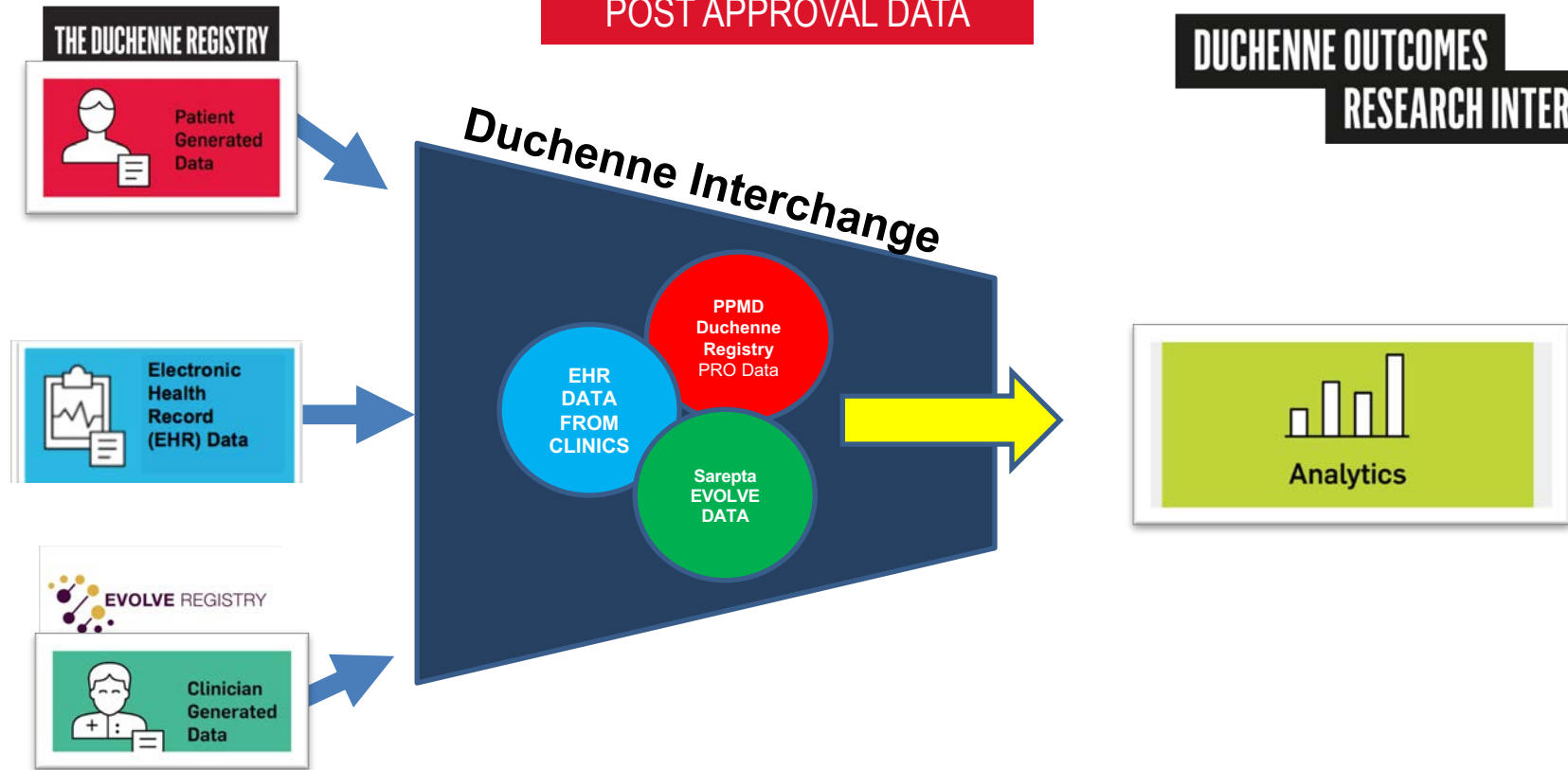
- The Evolve Registry is owned and operated by Sarepta and is an important and exciting project to gather real world evidence data in DMD patients who are on their approved medications.
- The Evolve Registry has started enrolling sites and recruiting patients.



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POST APPROVAL DATA

DUCHENNE OUTCOMES  
RESEARCH INTERCHANGE



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# What do I need to know and do?

- ❖ The NEW Duchenne Registry App is launching this fall!
- ❖ **Visit The Duchenne Registry at Interaction Alley at Conference!**
- ❖ Be sure to indicate with us which clinic you are currently receiving care
- ❖ Provide us with the most up to date email for your account(s)
- ❖ Be on the look out for emails from us this summer! (check your email!)
- ❖ For those on Exondys 51, you will be notified by your clinic if they are participating in the EVOLVE registry.



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The background of the slide features a large, semi-transparent watermark of the letters 'PMP' in a bold, sans-serif font. The watermark is centered and spans most of the slide's width and height.

# Conference Polling



# Conference Polling Goals

- **Gain a better understanding** from families on a range of topics
- **Provide additional insights for discussions** taking place during conference
- **Inform drug development, trials, and care** through the lens of patients, caregivers, and families

# Polling Guidelines

Polling will take place on Thursday, Friday, and Saturday in between sessions

Those watching the stream can also participate

To participate visit: [pollev.com/ppmd](https://pollev.com/ppmd)

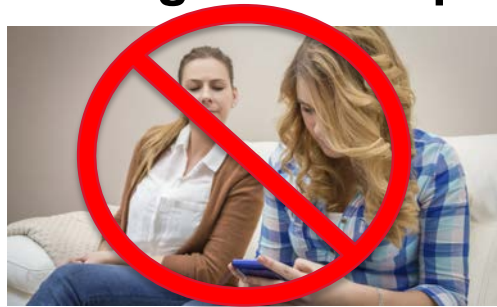
Wireless code: PPMD2019

## Polling Questions

- Questions are for people with Duchenne and Becker, their caregivers and family members only
- Some questions require only one response per family; we will indicate when we only need one response
- Answers are anonymous

# Polling Advice

- Don't fall victim to *peer pressure* with the answers on screen
  - Answer the polling question on your phone **before** looking at the results on the larger screen
- Don't look at your neighbors responses



Polling warm up