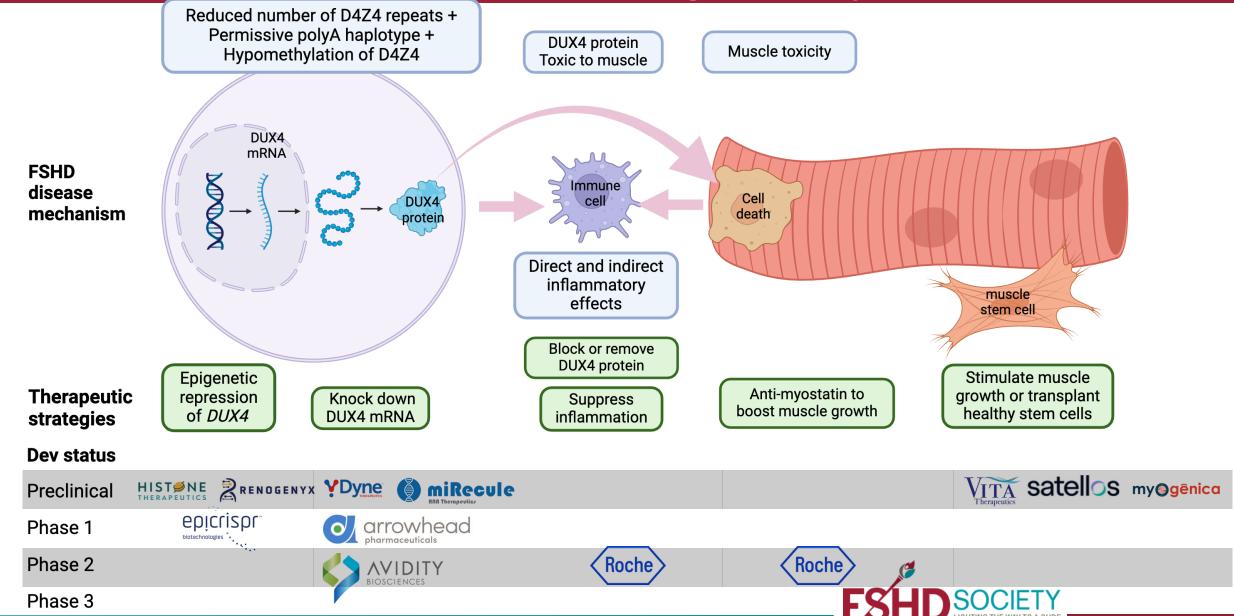
FSHD Clinical Trials and Therapeutic Development Updates

FSHD disease mechanism and drug development



Overview of Therapeutic Development









Pre-Clinical Research

- Disease mechanism
- Drug discovery
- Animal models

Clinical Research

- Natural history
- Physical assessments
- Biomarkers
- Trial design

Clinical Trials

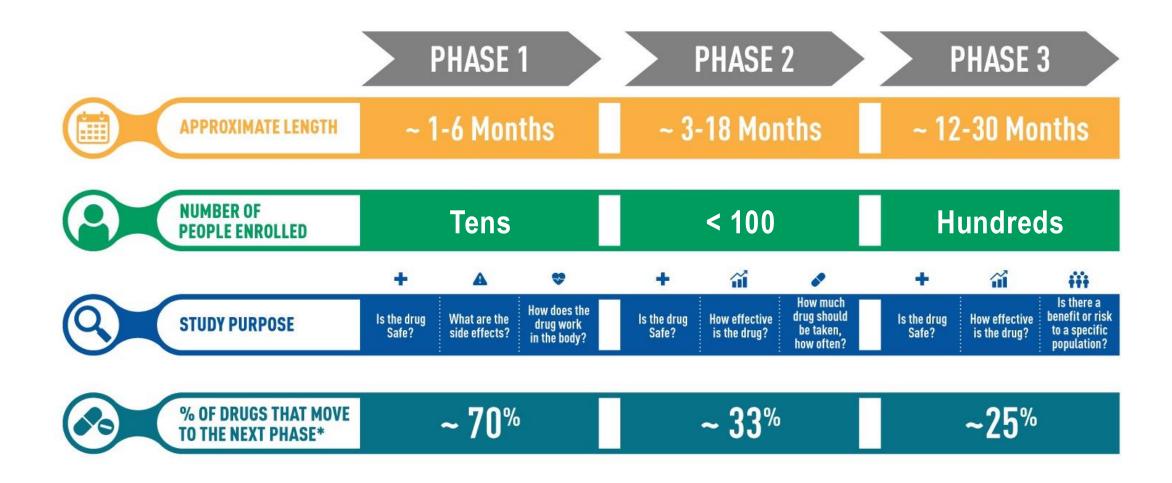
- Optimal dosing
- Safety and side effects
- Efficacy against disease

Launch

- Regulatory approval
- Payor reimbursement
- Longer term safety studies



Phases of Clinical Trials



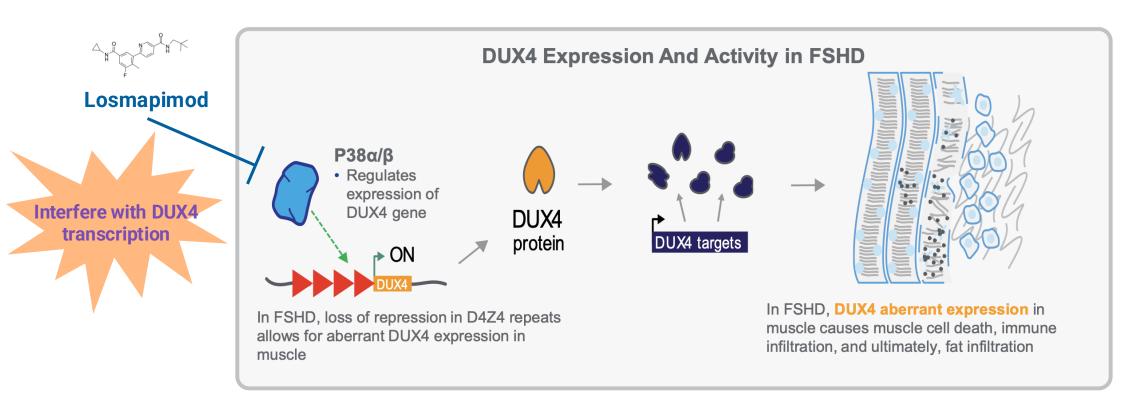


Fulcrum REACH

Discontinued

Fulcrum REACH: The Medicine





Administration:



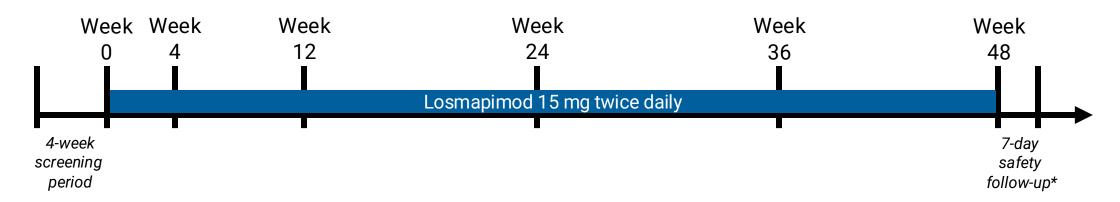
Other Notes:

- Repurposed drug
- No safety concerns in 3,600 previous study participants



Fulcrum REACH: Study Design





Quick Facts:		
Phase	3	
Participants	260	
Placebo	Yes, 1:1	
Rx Duration	48 weeks	
Study Visits	6 + screening and follow-up	
Notable Activities	MRI	
Open Label Extension	Yes*	
Genetic Testing	Required; provided by study	

Who Can Take Part?

Age 18-65

FSHD1 or FSHD2

Ricci score 2-4 (cannot be dependent on wheelchair or walker for activities)

Reachable Workspace total RSA 0.2-0.7

Must be able to do MRI



Roche MANOEUVRE

Roche MANOEUVRE: The Medicine

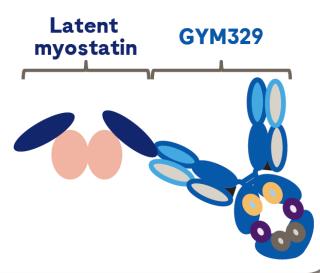


Helps muscles grow

What is GYM329 and how does it work?

GYM329 is an investigational, anti-latent myostatin antibody that specifically binds to inactive latent myostatin⁴

- Myostatin is a negative regulator of muscle growth and acts to prevent muscular hypertrophy.⁵
- GYM329 specifically binds to inactive latent myostatin and blocks its conversion to active myostatin, an intervention that is hypothesized to lead to increased muscle growth.⁴
- Preclinical animal studies have demonstrated increases in muscle mass and strength following treatment with GYM329.⁴



Administration:



AKA RO7204239

Other Notes: • Next generation of anti-myostatin agents

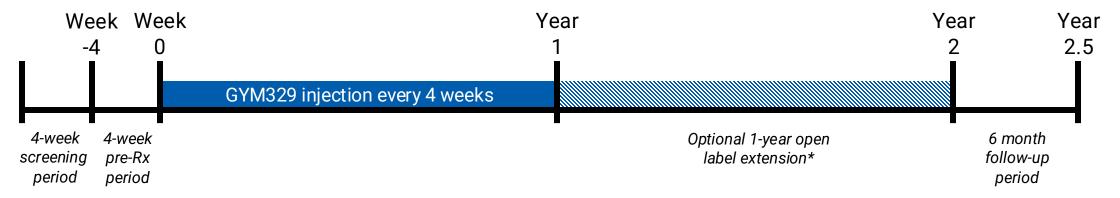
May require lower and less frequent dosing



FSHD SOCIETY
LIGHTING THE WAY TO A CLIFF

Roche MANOEUVRE: Study Design





QUICK FACTS		WHO CAN PARTICIPATE?
Drug How Is It Given? Phase Participants Placebo Genetic Testing Rx Duration Study Visits Notable Activities Open-Label Extension	GYM329 (aka RO7204239) Injection under skin 2 48 Yes, 1:1 Required, talk to your local site Every 4 weeks for 52 weeks At least every 4 weeks Wearable device, MRI Yes, for 52 weeks	 Age 18-65 FSHD1 or FSHD2 Ricci score: ≥ 2.5 and ≤ 4 (must be able to walk unassisted) Must be able to do MRI

Roche MANOEUVRE: Recruitment complete



STATUS

Enrollment Complete. Study is active.

Data Expected Q3 2026

Locations US, Denmark, Italy, UK

Learn More forpatients.roche.com

clinicaltrials.gov/study/

NCT05548556fshdsociety.org/

roche-manoeuvre-trial/

US Locations:

UC Irvine

University of Colorado

Kansas University Medical Center

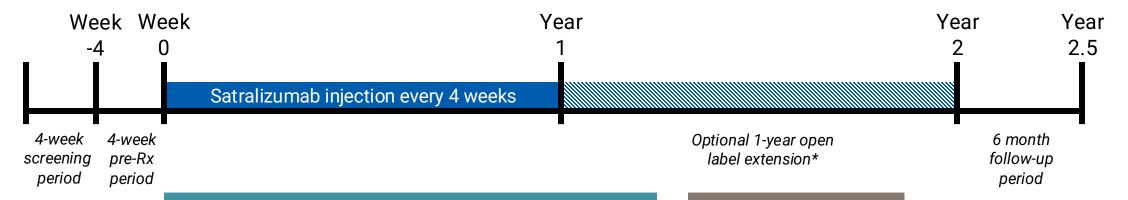
Kennedy Krieger

Virginia Commonwealth



REINFORCE: Study Design





QUICK FACTS

Drug Satralizumab

How Is It Given? Injection under skin

Phase 2
Participants 40
Placebo Yes

Genetic Testing Required

Rx Duration Double-blind phase, at weeks 0, 2, 4, and

every 4 weeks thereafter for 48 weeks; open-label phase, same dosing for 48 weeks + follow-ups; total 116 weeks

Study Visits ~16
Notable Activities MRI
Open-Label Extension Yes

WHO CAN PARTICIPATE?

- Age 18-65
- FSHD1
- Ricci score 2-4, able to walk without support
- Must be able to do MRI



REINFORCE: Getting Involved



STATUS

Enrollment Fully enrolled

Data Expected Mid-2026

Locations Ottawa, Canada; Nice, France

Learn More clinicaltrials.gov/study/NCT06222827



Avidity FORTITUDE

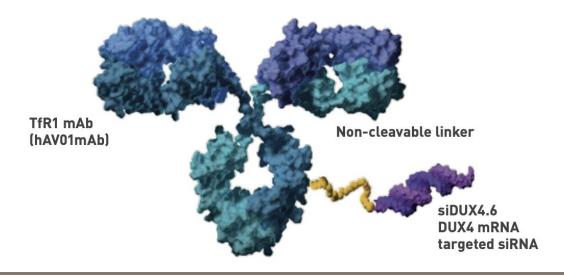
Avidity FORTITUDE: The Medicine

AVIDITY
BIOSCIENCES

- Figure 2 illustrates the structure of AOC 1020 and its three components:
 - 1. Antibody: Human transferrin receptor 1 (TfR1) targeting, effector function-null, humanized IgG1 antibody (hAVO1mAb) to affect delivery to skeletal muscle^{7,8}
 - 2. Non-cleavable linker: MCC maleimide linker, enhanced for safety and durability^{7,8}
 - **3. Oligonucleotide:** Stabilized siRNA targeting DUX4 mRNA (siDUX4.6); engineered and stabilized to withstand lysosomal enzymes, selected for potency and specificity, and modified to diminish off-target effects^{7,8}

Figure 2. AOC 1020: An antibody oligonucleotide conjugate targeting DUX4 mRNA for degradation





Administration:

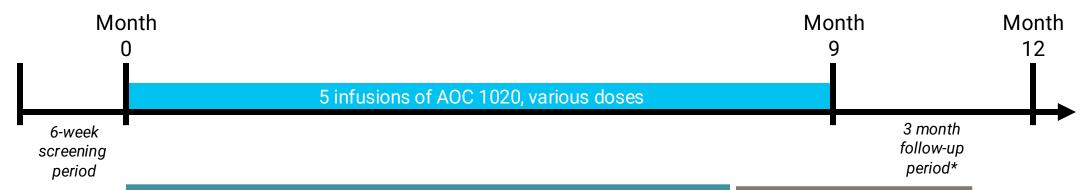


Related drug in Myotonic Dystrophy (AOC 1001) was first Other Notes: ever AOC in clinic, performing favorably in Phase 1/2



Avidity FORTITUDE: Study Design





QUICK FACTS

Drug Del-brax (AOC 1020)

How Is It Given? Intravenous infusion

Phase 1/2 Participants 72

Placebo Yes, 2:1

Genetic Testing Required, provided by study

Rx Duration 8 doses

Study Visits ~20, some may be virtual

Notable Activities MRI, leg muscle biopsy

Open-Label Extension Yes

• Age 16-70

FSHD1 or FSHD2

 FSHD clinical score of 2-14

WHO CAN PARTICIPATE?

Able to walk 10 meters without assistance

Reachable Workspace score

 Must have leg muscle suitable for biopsy and be able to do MRI



Avidity FORTITUDE: Getting Involved



STATUS

Enrollment Phase 2/2D fully enrolled

Data Expected Second half of 2026

Locations US, Canada, UK

Learn More fortitude-study.com

clinicaltrials.gov/study/NCT05747924

fshdsociety.org/avidity-fortitude-trial/

US & Canada Locations:

UC Los Angeles

UC San Diego

Stanford

University of Colorado

University of Florida

Rare Disease Research (Atlanta)

Kansas University Medical Center

University of Rochester

Duke University

Ohio University

University of Pennsylvania

UT Southwest

Virginia Commonwealth

University of Washington

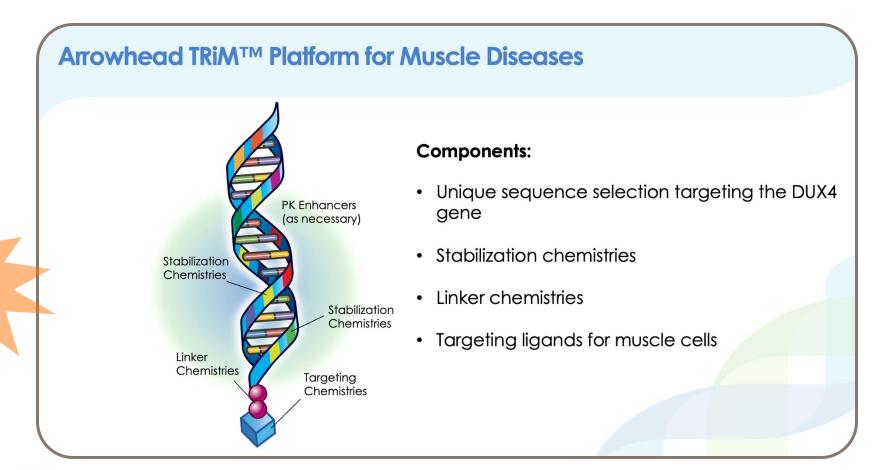
University of Ottawa



Arrowhead ARO-DUX4

Arrowhead ARO-DUX4: The Medicine





Administration:

Remove

DUX4 RNA

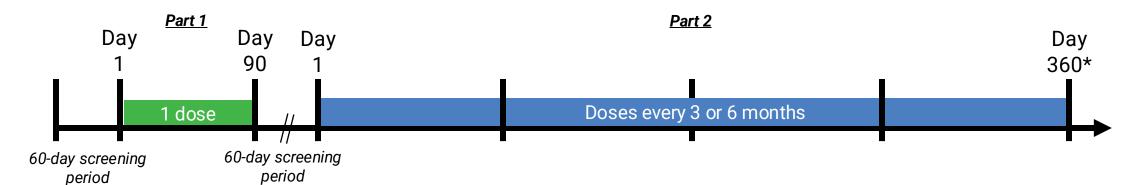


Other Notes: Similar approach to Avidity



Arrowhead ARO-DUX4: Study Design





Drug ARO-DUX4 How Is It Given? Intravenous infusion Phase 1/2a • Clinical Severity Scale Participants 60 Placebo Yes, 3:1 Genetic Testing Required, provided if needed Rx Duration Part 1: duration 3 months Part 2: 4 doses over 1 year Study Visits ~20 Notable Activities MRI, leg muscle biopsy Open-Label Extension Yes, if warranted by study results	QUICK FACTS		WHO CAN PARTICIPATE?
	How Is It Given? Phase Participants Placebo Genetic Testing Rx Duration Study Visits Notable Activities	Intravenous infusion 1/2a 60 Yes, 3:1 Required, provided if needed Part 1: duration 3 months Part 2: 4 doses over 1 year ~20 MRI, leg muscle biopsy	 FSHD1 Clinical Severity Scale 3-8 Must have leg muscle suitable for biopsy

Arrowhead ARO-DUX: Getting Involved



STATUS

Enrollment Currently enrolling

Data Expected TBD

Locations New Zealand, Australia, Thailand

Learn More fshdsociety.org/arrowhead-trial

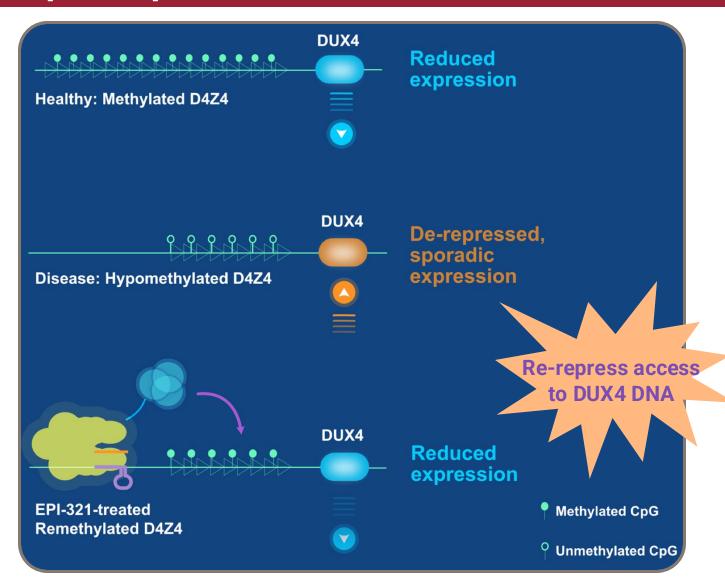
clinicaltrials.gov/study/NCT06131983

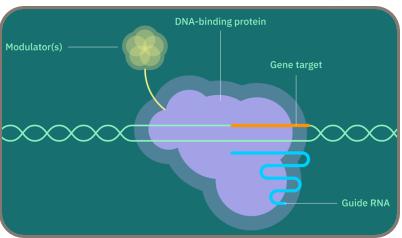


Epicrispr EPI-321

Epicrispr EPI-321: The Medicine







Administration:



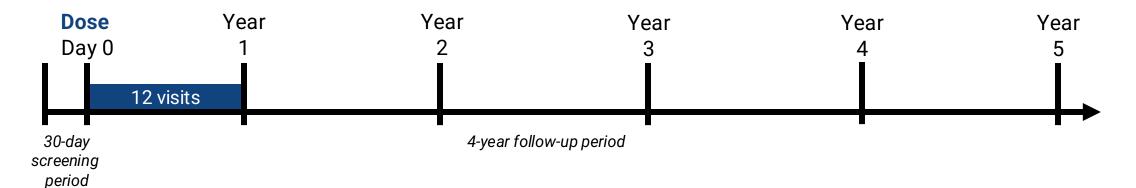
Other Notes: •

- Expected to be long lasting, potentially even one-time
- Platform utilizes CRISPRbased technology



Epicrispr EPI-321: Study Design





Quick Facts:	
Phase	1/2
Participants	~6-9
Placebo	No, all patients receive drug
Rx Duration	1 dose
Study Visits	~12 over 1 year
Notable Activities	MRI, muscle biopsy
Open Label Extension	N/A
Genetic Testing	Required; providing unknown

Who Can Take Part? Age 18-75 FSHD1 Ricci score 2-4 Must be able to walk 10 meters Must be able to do MRI



Epicrispr EPI-321: Getting Involved



Get Involved:	
Enrollment	Started in Q2 of 2025
Data Expected	TBD
Locations	New Zealand
Learn More	FSHD Society YouTube → FSHD University → Epic Bio



Many more therapies coming down the pipeline!



























Academic research labs working on drug discovery



Additional companies in 'stealth' mode



Overview of Therapeutic Development









Pre-Clinical Research

- Disease mechanism
- Drug discovery
- Animal models

Clinical Research

- Natural history
- Physical assessments
- Biomarkers
- Trial design

Clinical Trials

- Optimal dosing
- Safety and side effects
- Efficacy against disease

Launch

- Regulatory approval
- Payor reimbursement
- Longer term safety studies



MOVE and **MOVE+** Natural History Studies



Why are they important?

Information from these studies will be used to:

- Understand what assessments and measurements of disease are meaningful in FSHD → "Outcome measures"
- Design better clinical trials and increase their chance of success
- Help clinicians provide better care for people with FSHD

What will happen?

- You will attend at least 3 study visits over 3 years
- You will perform strength and movement tests and fill out questionnaires
- MOVE+ will also include blood and saliva samples, MRI, muscle biopsy





MOVE and MOVE+ Natural History Studies



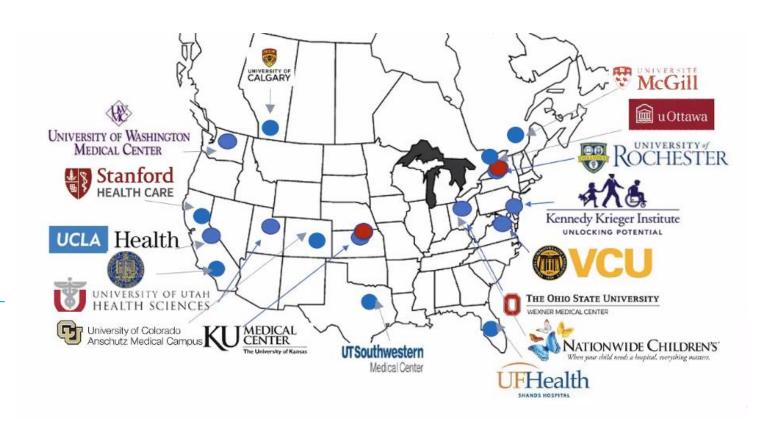
Who can join MOVE and MOVE+?

- Anyone with a confirmed diagnosis of FSHD
- For MOVE+, must also:
 - ✓ Be between age 18-75
 - ✓ Have lower leg weakness
 - ✓ Be able to walk 30 meters without assistance from another person

Learn more at

https://clinicaltrials.gov/study/NCT04635891

Contact Michaela Walker
Project Manager
mwalker20@kumc.edu





Summary and how you can be involved

Research you may be able to take part in:

- Avidity FORTITUDE clinical trial
- Roche MANOEUVRE clinical trial
- MOVE and MOVE+ natural history studies

Additional ways to be involved and prepared:

- Make sure you (and your community members) are on the FSHD Society email list for updates!
- Participate in research surveys
- Be known to your local neuromuscular clinic
- Get the best care available and stay as healthy as possible
- Get genetic testing





Thank you!

Questions?

