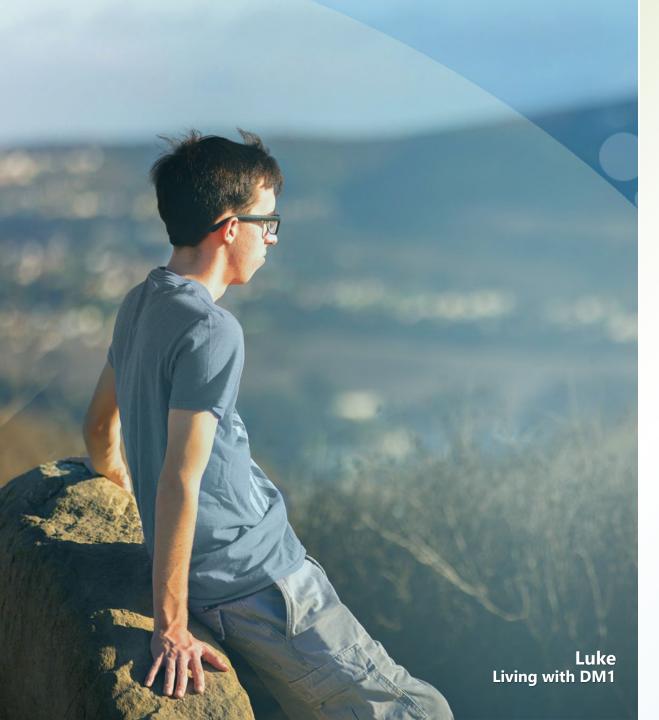


Forward-Looking Statements

We caution the reader that this presentation contains forward-looking statements that involve substantial risks and uncertainties. All statements other than statements of historical fact contained in this presentation are forward-looking statements. Forward-looking statements include, but are not limited to, statements regarding; our future results of operations and financial position; our business strategy; the anticipated timing, costs, design, goals and conduct of our ongoing and planned preclinical studies and clinical trials; the timing of release of data from our ongoing clinical programs; the characterization of data and results from preclinical studies and clinical trials, and conclusions drawn therefrom; research and development plans; plans and projected timelines for delpacibart etedesiran (del-desiran, or AOC 1001), AOC 1020 and AOC 1044; safety and tolerability profiles of our product candidates; the potential of the AOC platform and specific product candidates; the ability of our product candidates to treat rare diseases; timing and likelihood of success; product approvals; plans and objectives of management for future operations; collaborations with third parties and expected benefits therefrom; the partial clinical hold related to del-desiran; and cash position and our ability to fund our planned operations. In some cases, the reader can identify forward-looking statements by terms such as "may," "will," "should," "expect," "plan," "anticipate," "could," "intend," "target," "project," "contemplates," "believes," "estimates," "predicts," "potential" or "continue" or the negative of these terms or other similar expressions. The inclusion of forward-looking statements should not be regarded as a representation by Avidity that any of our plans will be achieved. Actual results may differ from those set forth in this presentation due to the risks and uncertainties inherent in our business based on factors beyond our control, including, without limitation: we may not be able to fully resolve the partial clinical hold related to del-desiran; additional requests for data by the FDA or other regulatory authorities may result in significant additional expense and timing delays; data delivered to the FDA may not be satisfactory to the FDA; additional participant data related to del-desiran and our other product candidates that continues to become available may be inconsistent with the data produced as of the most recent respective date cutoff, and further analysis of existing data and analysis of new data may lead to conclusions different from those established as of such date cutoff; unexpected adverse side effects or inadequate efficacy of our product candidates may delay or limit their development, regulatory approval and/or commercialization, or may result in additional clinical holds, recalls or product liability claims; we are early in our development efforts; our approach to the discovery and development of product candidates based on our AOC platform is unproven, and we do not know whether we will be able to develop any products of commercial value; the results of preclinical studies and early clinical trials are not necessarily predictive of future results; potential delays in the commencement, enrollment and completion of clinical trials, or of designations conferred by regulatory authorities; our dependence on third parties in connection with preclinical and clinical testing and product manufacturing; we may not realize the expected benefits of our collaborations with third parties, our existing collaborations may terminate earlier than expected or we may not be able to form new collaborations; regulatory developments in the United States and foreign countries, including acceptance of INDs and similar foreign regulatory submissions and our proposed design of future clinical trials; Fast Track or Breakthrough Designation by the FDA may not lead to a faster development or regulatory review or approval process; our ability to obtain and maintain intellectual property protection for our product candidates and proprietary technologies; we may exhaust our capital resources sooner than we expect and fail to raise additional needed funds; and other risks described under the heading "Risk Factors" in our Form 10-K for the year ended December 31, 2023, filed with the SEC on February 28, 2024, and in subsequent filings with the SEC. The reader is cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date hereof. Except as required by applicable law, we do not plan to publicly update or revise any forward-looking statements contained herein, whether as a result of any new information, future events, changed circumstances or otherwise. All forward-looking statements are qualified in their entirety by this cautionary statement, which is made under the safe harbor provisions of the Private Securities Litigation Reform Act of 1995.

This presentation also contains estimates and other statistical data made by independent parties and by us relating to market size and growth and other data about our industry. This data involves a number of assumptions and limitations, and the reader is cautioned not to give undue weight to such estimates. In addition, projections, assumptions, and estimates of our future performance and the future performance of the markets in which we operate are necessarily subject to a high degree of uncertainty and risk. These and other factors could cause results to differ materially from those expressed in the estimates made by the independent parties and by us. This presentation shall not constitute an offer to sell or the solicitation of an offer to buy securities, nor shall there be any sale of securities in any state or jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such state or jurisdiction.





OUR VISION

To profoundly improve people's lives by revolutionizing the delivery of RNA therapeutics

Building a New Class of RNA Therapeutics

Well positioned for next phase of growth

PLATFORM

- AOC platform led to historical first-ever successful delivery of RNA to muscle; successful delivery repeated with AOC 1044 in healthy volunteers
- Expanding our therapeutic expertise, particularly in precision cardiology, through research collaborations and internal discovery efforts

WORLD CLASS TEAM OF RNA & RARE DISEASE **EXPERTS**

- Committed to innovative science matched by passion to improve people's lives
- Building an integrated and diverse company in service of our patients

STRONG FINANCIALS& INVESTOR CONFIDENCE

- Strong cash position of over \$900 million provides funding into late 2026
- Continue to execute on our three clinical development programs for DM1, DMD44 and FSHD and broaden our AOC platform into the precision cardiology therapeutic area



Delivering in 2024: 3 Data Readouts in 3 Clinical Programs in 3 Rare Diseases

Del-desiran™ in DM1>40,000 patients in U.S.



On track for initiation of global Phase 3 HARBOR trial Q2 2024 AOC 1020 in FSHD

~16,000-38,000 patients in U.S.



Anticipate Phase 1/2 FORTITUDE preliminary data in ~half of participants in Q2 2024

AOC 1044 in **DMD44**

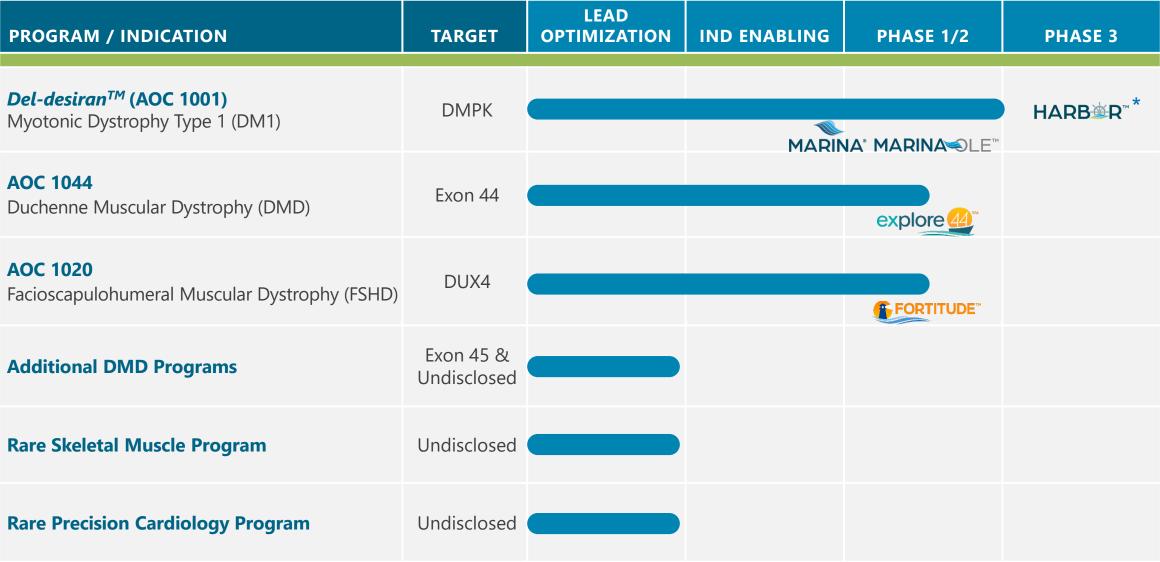
~900 patients in U.S.



Anticipate Phase 1/2 EXPLORE44 patient data in 2H 2024



Diverse and Expanding AOC Pipeline





^{*} Global Phase 3 HARBOR™ Trial Initiation planned for Q224

Key to Our Success: Proprietary AOC™ Platform

Combining the specificity of mAbs with the precision of oligonucleotide therapies





MONOCLONAL ANTIBODIES

OLIGONUCLEOTIDE THERAPIES

ANTIBODY OLIGONUCLEOTIDE CONJUGATE (AOC)

AOC platform advantages:

- ✓ Ability to target new tissue and cell types beyond the liver
- ✓ Flexibility to select and deploy the most potent oligonucleotides (e.g., siRNAs, PMOs)
- ✓ Maximizes therapeutic durability, enabling infrequent dosing
- ✓ Readily reproducible and scalable



The Optimal AOC for Each Target

AOC COMPONENTS		DATA-DRIVEN COMPONENT CHARACTERISTICS	OUR ENGINEERING IMPACT
mAb		Well-established safety profileHigh specificity and affinityLong half-life	 Designed to be effector function null Epitope selection designed for optimal activity
Linker	- War	Known linkerApplicable to multiple oligo modalities	Enhanced for durabilityEngineered sites of conjugationOptimized ratio of oligonucleotides to mAbs
Oligonucleotide	siRNA	 Attractive safety profiles Potency in the nanomolar range Sustained activity in the cytoplasm and nucleus 	 Engineered to withstand lysosomal enzymes Selected and modified to diminish off-target effects
	PMO	Attractive safety profilePotency in the nanomolar rangeSustained activity	 Engineered for efficient delivery to muscle – increased drug to antibody ratio



Avidity Is Opening the Possibilities of RNA Delivery

First-ever company to demonstrate successful targeted delivery of RNA to muscle

2021 **Today First AOC Dosed in Humans** 2024 and Beyond Past 30 Years **RNA Therapeutics** Skeletal **Immunology** Muscle mAb OLIGO **Precision** Other **Focused Cardiology Indications** on delivery to the **AOC** liver or local delivery





Del-desiran Program for Myotonic Dystrophy Type 1 (DM1)

"Some days I don't have the energy to take another step."

— Karin, living with DM1

DM1: Significant Patient Burden and Unmet Need

>40,000
PEOPLE WITH DM1 IN THE US

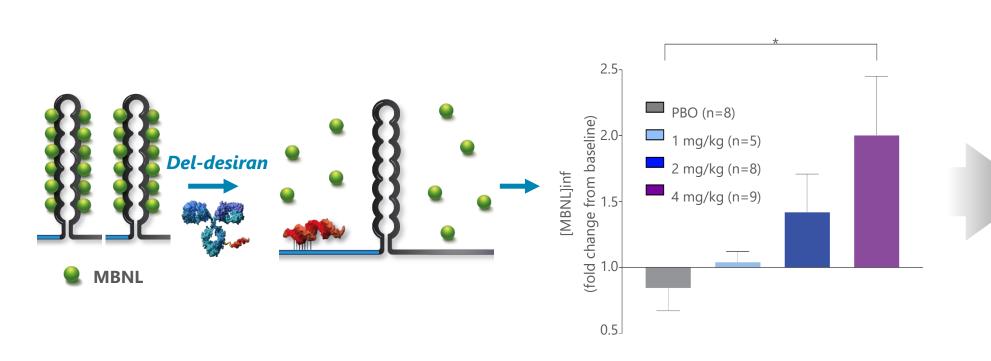


- Underrecognized, progressive & often fatal neuromuscular disease that primarily affects skeletal, cardiac & smooth muscle
- Increases in severity from generation to generation
- Significant impact on quality of life
- Del-desiran is designed to address root cause of DM1





Del-desiran Designed to Address Underlying Cause of Myotonic Dystrophy by Liberating Free MBNL



MARINA® MARINA®LE™

Video Hand Opening Time (vHOT)



MYOTONIA

Hand Grip

TRE.

Muscle Testing

Quantitative

STRENGTH



DM1-Activ



ACTIVITIES OF DAILY LIVING

MBNL sequestered by CUG repeats of mutant DMPK

Del-desiran (AOC 1001) treatment Reduced mutant DMPK *Del-desiran (AOC 1001) Leads to Dose-dependent increase in MBNL



Recent Del-desiran Program Updates

- Initiation of global Phase 3 HARBOR[™] trial of del-desiran for myotonic dystrophy type 1 (DM1) on-track for Q2 2024
- In May 2024, received Breakthrough Therapy designation from the FDA for del-desiran for the treatment of DM1
- Secured regulatory agreement with FDA, EMA and other global regulatory authorities on the Phase 3 HARBORTM trial design
- In March 2024, presented first-look at long-term efficacy and safety data from MARINA-OLETM trial in people living with DM1 at MDA Clinical & Scientific Conference
 - Data from MARINA-OLETM showed reversal of disease progression in multiple functional measures in people living with DM1 compared to END-DM1 natural history data
 - Data demonstrated consistent and durable improvements in myotonia, muscle strength and activities of daily living in people with DM1 in new long-term data from MARINA-OLETM
- In January 2024, commenced dose-escalation of remaining study participants from 2 mg/kg to 4 mg/kg of del-desiran in the MARINA-OLETM trial



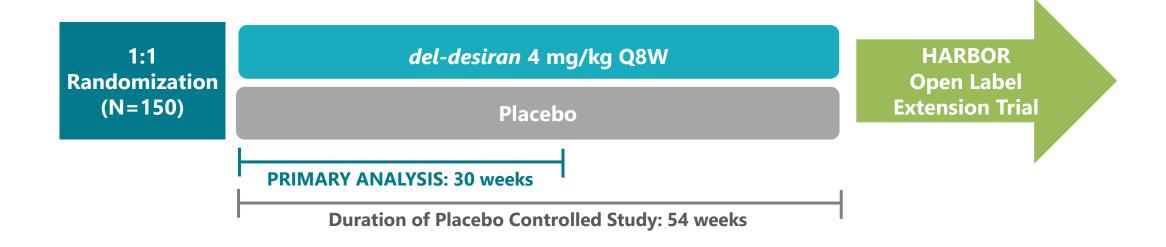




March 2024

HARB®R[™] Initiating Global Phase 3 Study

- FDA, EMA and other global regulatory authorities in agreement on study design
- HARBORTM study designed for efficiency and speed of execution
- On track to initiate in Q2 2024





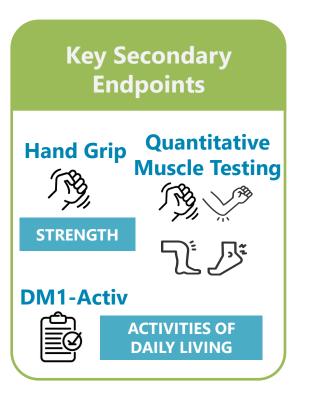
HARB®R[™] Phase 3 Trial: Design & Objectives

Optimized for efficiency and speed of execution

Pivotal Study Design

- 4 mg/kg every 8 weeks; first dose of 2 mg/kg
- N=150; Ages 16+
- 1:1 randomization
- Primary analysis at Week 30; Placebo-control out to week 54
- Participants eligible to roll-over into an open label extension
- ~40 global sites





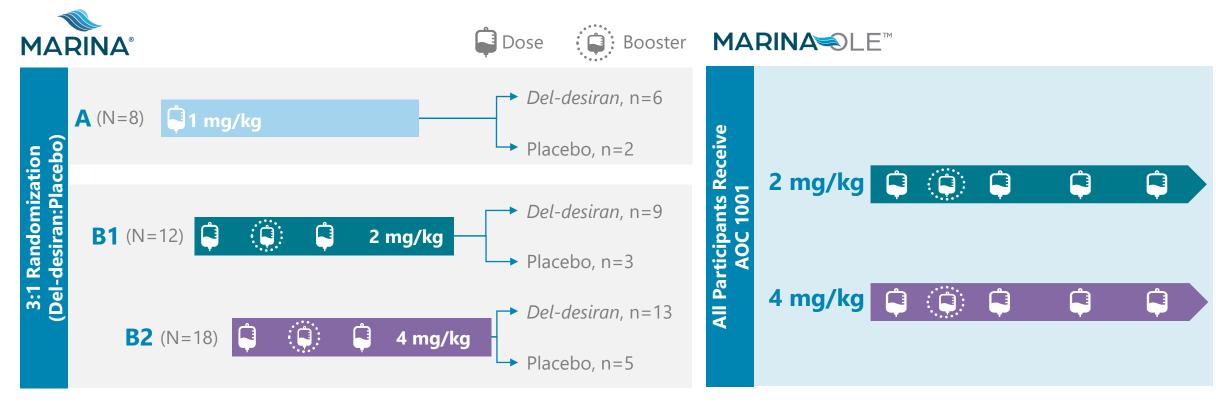






March 2024

Phase 1/2 MARINA® and MARINA-OLE™ Trial Design



- In MARINA, one participant receiving 4 mg/kg del-desiran discontinued treatment due to SAE
- All eligible participants (N=37) have enrolled in the MARINA-OLE™



MARINA LE™ Favorable Long-term Safety and Tolerability

Over 265 infusions of del-desiran totaling 61.1 patient-years of exposure

MARINA-OLE TM	Number (%) with AE N=37
Subjects with ≥ 1 AE	
Any AE	35 (94.6%)
AE related to study drug	9 (24.3%)
Unrelated serious AE (SAE)	4 (10.8)
SAE related to study drug	0
AE leading to treatment discontinuation	0
AE leading to death	0

MARINA

- All 37 participants enrolled remain on study
- All related AEs were mild or moderate
 - Most common related AEs reported in 2 or more participants:
 - Nausea
 - Headache
 - No discontinuations
 - No study drug related SAEs; unrelated SAEs are consistent with DM1



END-DM1 Natural History Study: Understanding DM1 Disease Progression

- Ongoing non-interventional NHS aimed to advance the understanding of disease progression in DM1 patients
- Focuses on clinical outcome assessments to support development of therapies for DM1
- 700 patient, 2-year study, ~ 20 centers
- Designed and run by the Myotonic Dystrophy Clinical Research Network (DMCRN)
- Supported by FDA, MDA, MDF; Avidity is one of several sponsoring organizations



END-DM1 Data Informed Design of the MARINA® & Phase 3 HARBOR Trials

Presenting one-year data for the first time today



Same endpoints measured



Clinical trial sites overlap with MARINA® & HARBOR



Contemporary data set based upon standard of care

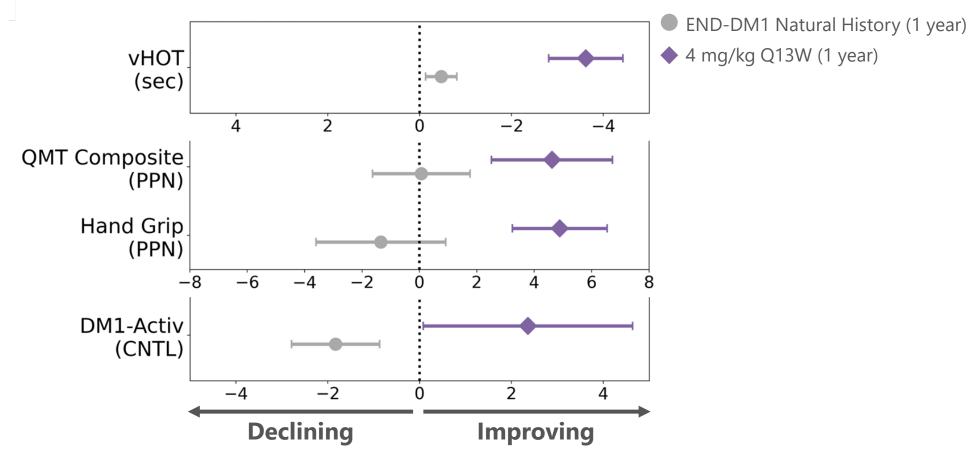


Hundreds of patients with at least one-year of follow-up in END-DM1 natural history study



Del-desiran: Reversal of Disease Progression as Measured by MARINA-OLE™ vs. Natural History

Key endpoints to be used in pivotal HARBOR study



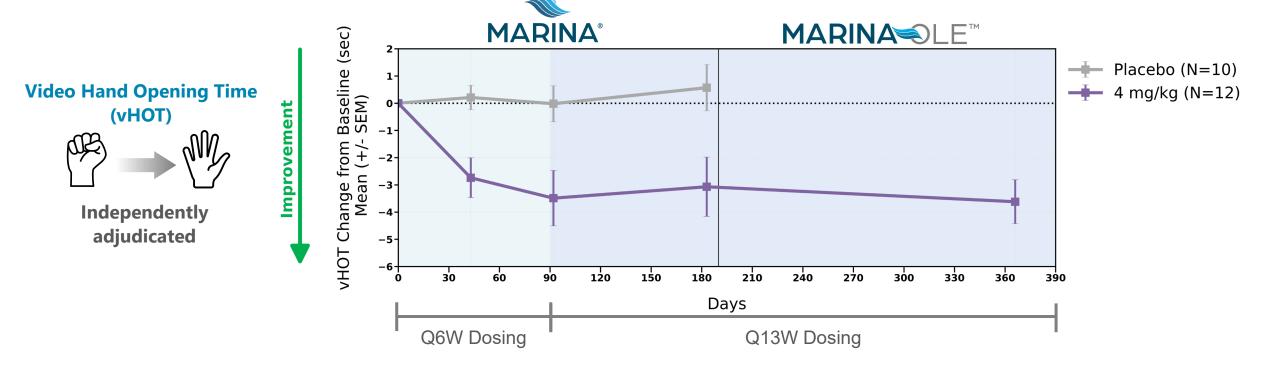


Thanks to END-DM1 physicians for reviewing and approving use of this Avidity analysis; END-DM1 subpopulation matched to MARINA $^{\text{(}}$ (n ~ 60) In MARINA-OLE $^{\text{M}}$ data 4 mg/kg, n=12 for vHOT, QMT composite, hand grip; n=11 for DM1-Activ

PPN = Percent predicted normal

CNTL= percentile Error bars = SEM (standard error of the mean)

Del-desiran: Long-term Improvement in Myotonia Measured by video hand opening time (vHOT) in MARINA® and MARINA-OLE™



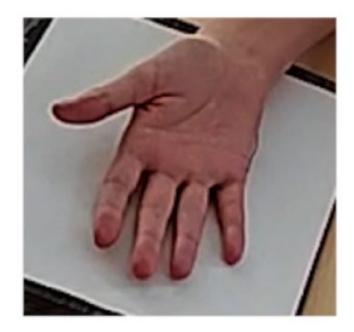
MARINA® data statistically significant at all assessment time points*



Del-desiran: Long-term Improvement in Myotonia Measured by video hand opening time (vHOT) in MARINA® and MARINA-OLE™



Baseline vHOT



MARINA-OLE™ (1 year of 4 mg/kg)

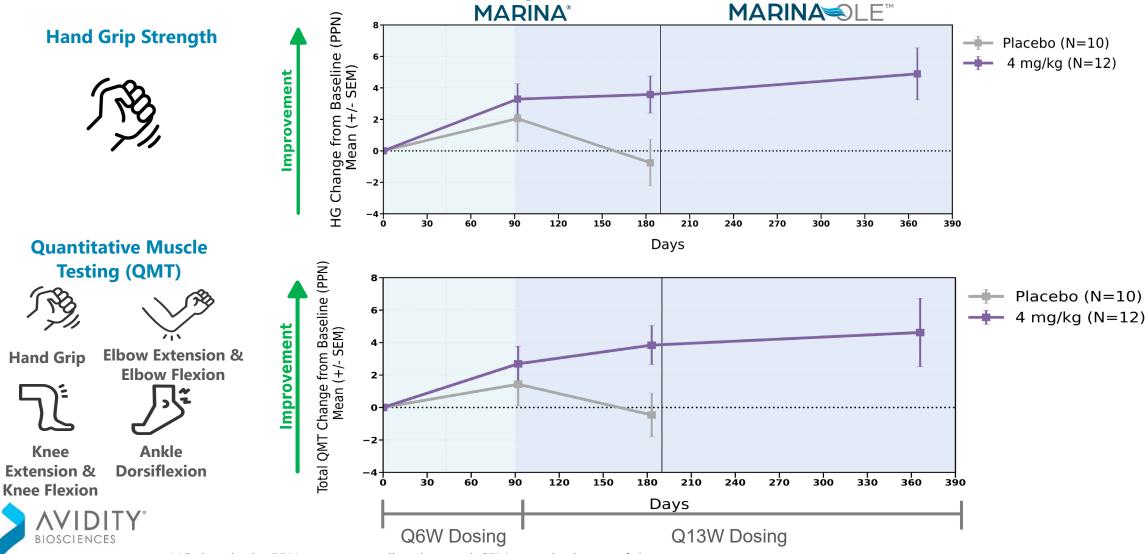






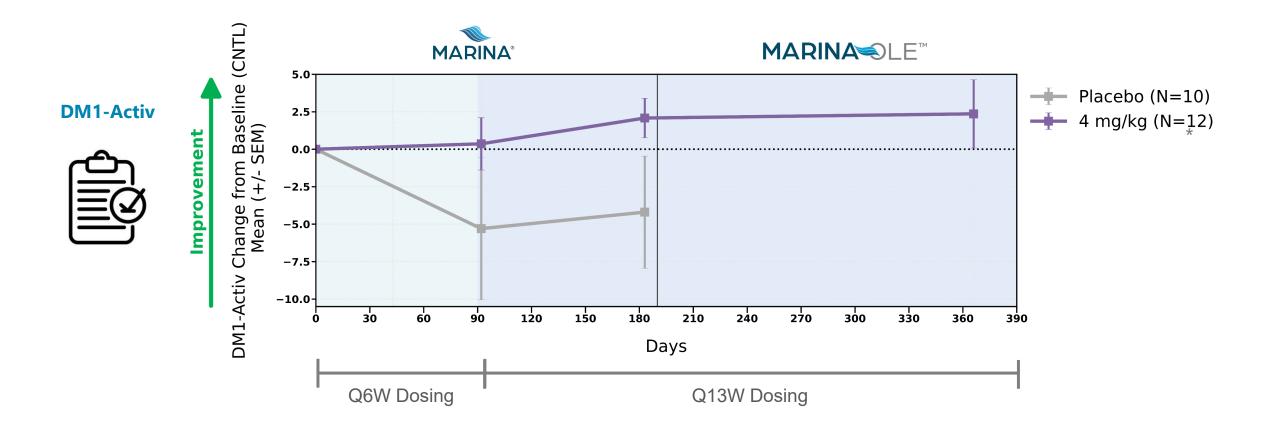
Del-desiran: Long-term Improvement in Muscle Strength

Measured by Hand Grip and Quantitative Muscle Testing in MARINA® and MARINA-OLE™



Del-desiran: Long-term Improvement in Activities of Daily Living

Measured by DM1-Activ Patient Reported Outcomes in MARINA® and MARINA-OLE™

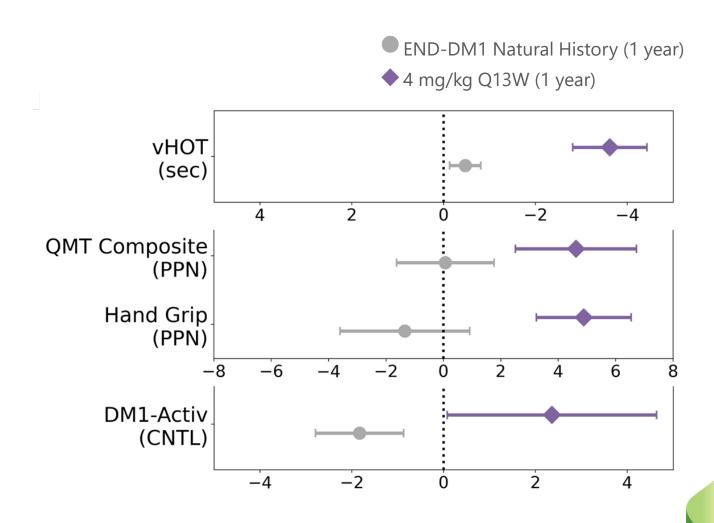




MARINA-OLE[™] Data Summary

Potential of del-desiran to be a transformational therapy for DM1 patients

- Del-desiran 4 mg/kg
 - Demonstrated favorable long-term safety and tolerability
 - Showed reversal of disease progression in MARINA® and MARINA-OLE™ compared to END-DM1 natural history data
 - Provided consistent and durable improvements in multiple clinical endpoints
- Global HARBOR[™] trial on-track to initiate in Q2 2024





Patient Experiences: Impact of del-desiran on their life MARINA ► LE™

I started this drug in June and like, two weeks after I took the first infusion, I went to open up a pop bottle, which I never would've been able to do. It was a twist pop bottle...and it opened right up.

My strength was better, my outlook was better, my hands were working.

I had more strength, and I could stretch them out. I could **open things and I could turn door knobs** and all these things that were harder.

Like, my **upper arm strength was better**. I could **walk better**.

I didn't need to wear my neck brace all the time and everything just improved a lot.

Before the study I couldn't stand on my toes and since I've been **going back to working out, I can actually stand on my toes again.** So hopefully **building up some strength.**

The myotonia, if I would make a fist, I wouldn't be able to open my hand...I was able to squeeze my fist and open my hand with no problems.

My tongue would cramp up when I would speak, and I have not had any signs of that happening since the very first dose.







Patient Experience: Impact of del-desiran on their life MARINA LE™

I've noticed a really big difference in the fact that I used to be a really active person before I got more symptomatic. After a few rounds of the infusion, I've actually been able to **get back to the gym and start working out**, working with a trainer. That's all because **my mobility has definitely increased.** My **range of motion has also increased.**

I think that it's amazing that when I was diagnosed, I was told there's no treatment, no cure. The study has **given me a lot of hope**. I would love for that to be able to be shared with other people in the community who have DM1.



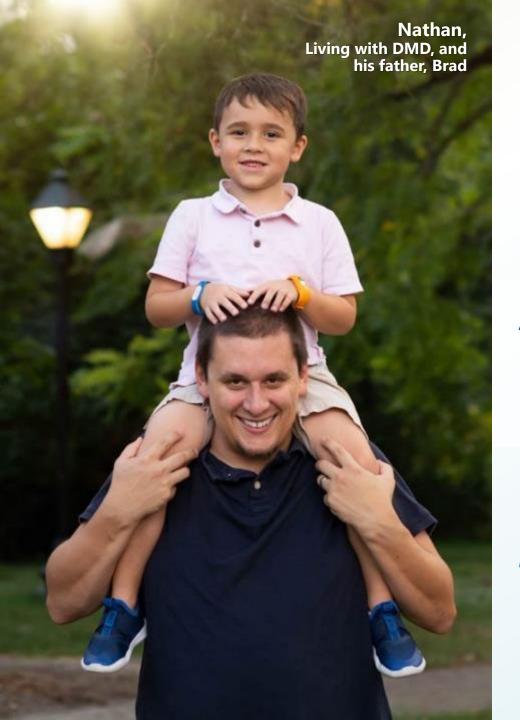


Delivering on DM1



- ☐ Initiation of global Phase 3 HARBOR trial **Q2 2024**
- ✓ FDA Breakthrough Therapy designation Complete
- ✓ First look at MARINA-OLE long-term efficacy and safety data Complete
- ✓ Demonstrated first-ever successful targeted delivery of RNA to muscle Complete
- ✓ FDA & EMA Orphan Drug designation Complete
- ✓ FDA Fast Track designation Complete





AOC 1044 Program for Duchenne Muscular Dystrophy (DMD)

"My advice to any other family dealing with this is to take it day by day, do as much research as possible, and connect with others. I hope that someday there will be a cure for DMD, and no other family will have to go through this"

— Brad, Nathan's Father, DMD Advocate

DMD: Characterized By Progressive Muscle Damage and Weakness

~10,000 - 15,000

PEOPLE WITH DMD IN THE US SIMILAR PREVALENCE IN EUROPE

0

APPROVED THERAPIES FOR DMD44

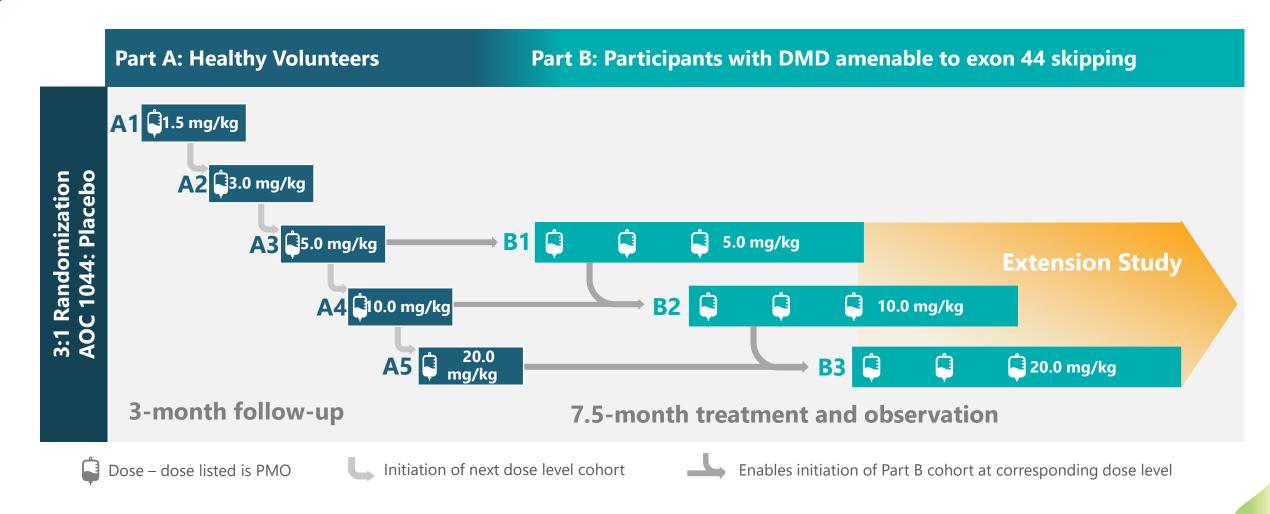
- Monogenic, X-linked, recessive condition characterized by progressive muscle damage and weakness
- Primarily affects males, loss of ambulation by teenage years
- Significantly reduced life expectancy
- Caused by mutations in the DMD gene, which encodes for the dystrophin protein
 - ~ 7% of DMD skip-amenable patients have mutations amenable to exon 44 skipping (DMD44)
 - ~900 with DMD44 in US (ultra rare)
- AOC 1044: designed to specifically skip exon 44 of dystrophin gene to enable dystrophin production





Phase 1/2 EXPLORE44 Trial Design







Phase 1/2 AOC 1044 Healthy Volunteer Data

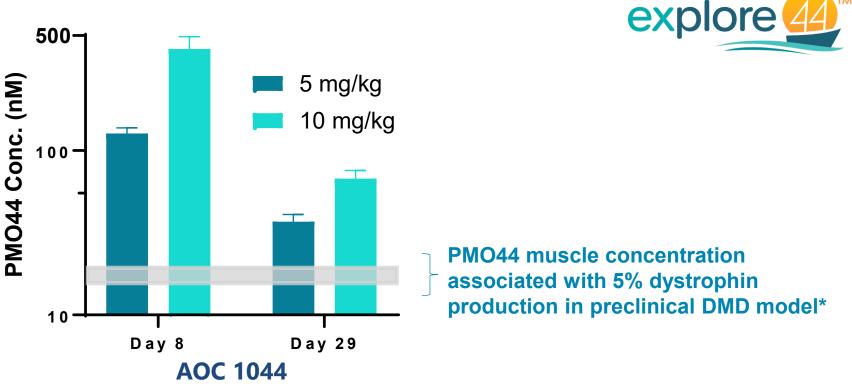


- In the second half of 2024, planning to share 5 mg/kg cohort data from the Phase 1/2 EXPLORE44™ trial of people living with Duchenne muscular dystrophy mutations amenable to exon 44 skipping (DMD44)
- In December 2023, announced positive AOC 1044 data in healthy volunteers
 - Delivered unprecedented concentrations of PMO into skeletal muscle
 - Up to 50-times greater concentrations of phosphorodiamidate morpholino oligomers (PMO) in skeletal muscle following a single dose compared to peptide conjugated PMOs in healthy volunteers*
 - Demonstrated statistically significant exon 44 skipping compared to placebo in healthy volunteers and increased exon skipping in all participants
 - Up to 1.5% exon skipping after a single dose of 10 mg/kg AOC 1044
 - AOC 1044 was well tolerated



AOC 1044 Delivered Unprecedented Dose-dependent Concentrations of PMO in Skeletal Muscle in Healthy Volunteers

Achieved PMO Muscle Concentrations well above those that produce dystrophin in preclinical models



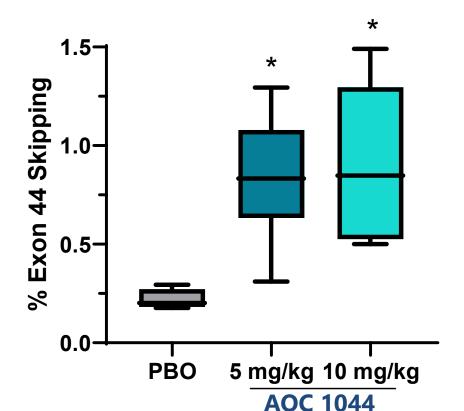
PMO44 muscle tissue concentrations were determined utilizing HPLC. N=8/cohort except for 10 mg/kg (n=7) where a single participant did not have a Day 29 biopsy. Doses expressed as PMO component.



*Based on PKPD modelling of a mouse active AOC (utilizing PMO44) in a human DMD exon 45 del/mdx mouse model

AOC 1044 Provides Statistically Significant Exon 44 Skipping of Up to 1.5% After Single Dose in Healthy Volunteers explore

AOC 1044 increased exon skipping in all participants compared to placebo





Exon skipping was determined using ddPCR at Day 29 post dose. Data presented as a boxplot: 25th and 75th quartiles, line represents mean with 5% and 95% confidence interval. N=4 (PBO), N=8 (5 mg/kg), N=7 (10 mg/kg, a single participant did not have a Day 29 biopsy). Doses expressed as PMO component.

AOC 1044 Well Tolerated in Healthy Volunteers

Summary of Treatment Emergent Adverse Events (TEAEs)*



Subjects with ≥ 1 AE n (%)	Placebo N=8	1.5 mg/kg N=6	3.0 mg/kg N=6	5.0 mg/kg N=8	10 mg/kg N=8	Total AOC 1044 N=28
Any AE	2 (25%)	0	3 (50%)	6 (75%)	7 (88%)	16 (57%)
AE related to study drug	0	0	2 (33%)	3 (38%)	5 (63%)	10 (36%)
Serious AE (SAE)	0	0	0	0	0	0
Severe AE	1 (13%)	0	0	0	0	0
AE leading to discontinuation of infusion	0	0	0	0	0	0
AE leading to death	0	0	0	0	0	0

AOC 1044

- All TEAEs mild or moderate
- No serious or severe TEAEs
- No symptomatic hemoglobin changes
- No hypomagnesemia
- No renal events

Placebo Group

One severe adverse event in placebo group

^{*}Data as of 23 October 2023; trial ongoing



Collaboration with DMD Community to Advance New Treatment Options



Patients and their families are at the heart of everything we do

- Deepening our understanding of the patient and caregiver journey with ongoing discussions
- Engaging with community to better understand challenges and opportunities in drug development
- Continually seeking community input to best meet patient needs and inform trial design and participant support services
- EXPLORE44™ and extension study designed for potential accelerated approval







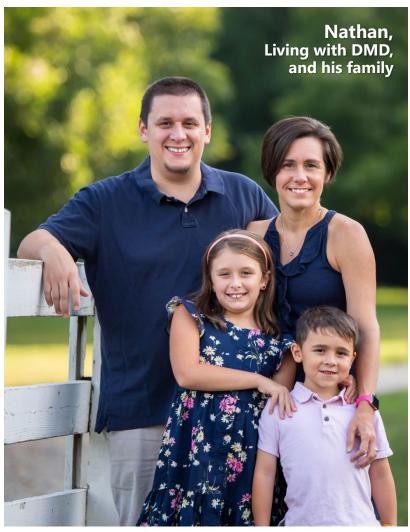








Delivering on DMD



- EXPLORE44 patient data 2H 2024
- Preclinical development of additional DMD programs Ongoing
- ✓ Reported EXPLORE44 healthy volunteer data Complete
- ✓ Initiated enrollment of participants with DMD44 in EXPLORE44 **Complete**
- ✓ FDA Rare Pediatric Disease Designation Complete
- ✓ FDA & EMA Orphan Drug designation Complete
- ✓ FDA Fast Track designation Complete





AOC 1020 Program for Facioscapulohumeral Muscular Dystrophy (FSHD)

"Living with FSHD feels like an imprisonment in your own body."

— Amy, Living with FSHD

FSHD: Lifelong, Progressive and Variable Loss of Muscle Function

~16,000 - 38,000

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APPROVED THERAPIES

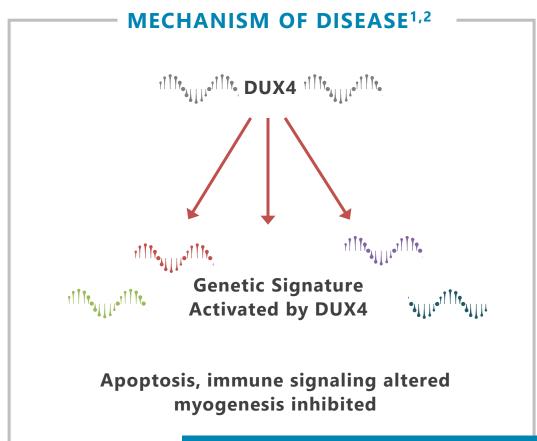
- PEOPLE WITH FSHD IN THE US
- One of the most common forms of muscular dystrophy
- Rare, progressive and variable hereditary muscle-weakening condition marked by significant pain, fatigue and disability
- Onset often in teenage and adult years
- Steady loss of independence and ability to care for oneself
- 20% of patients become wheelchair dependent
- Autosomal dominant multiple generations can be affected
- AOC 1020: designed to reduce abnormal expression of DUX4 mRNA and DUX4 protein

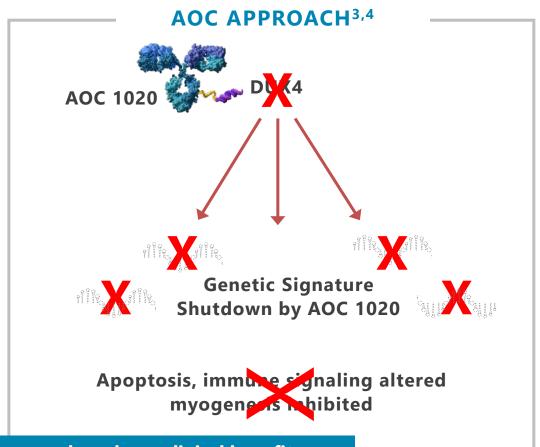




AOC 1020: A Novel RNA Therapeutic for FSHD

Targets abnormal expression of DUX4 mRNA in muscle





Small reductions in DUX4 expression may have large clinical benefit



^{3.} Ansseau E, et al. *Genes (Basel)*. 2017;8(3):93; 4. Jiang S, et al. *PLoS Genet*. 2020;16(5):e1008754.

Phase 1/2 FORTITUDE™ Trial Overview & Objectives



Key Information

- Randomized, double blinded, placebo controlled
- Multiple dose
- N=72; Ages 18-65
- Follow-up of up to 12 months
- Biopsies in all cohorts

Stages

- Part A: single-cohort dose titration
- Part B: 2 multiple ascending dose cohorts
- Expansion: singlecohort, parallel-group, multiple-dose
- Eligible to roll-over into OLE

Primary & Secondary Objectives

- Safety and tolerability of ascending doses of AOC 1020 in participants with FSHD
- Pharmacokinetics

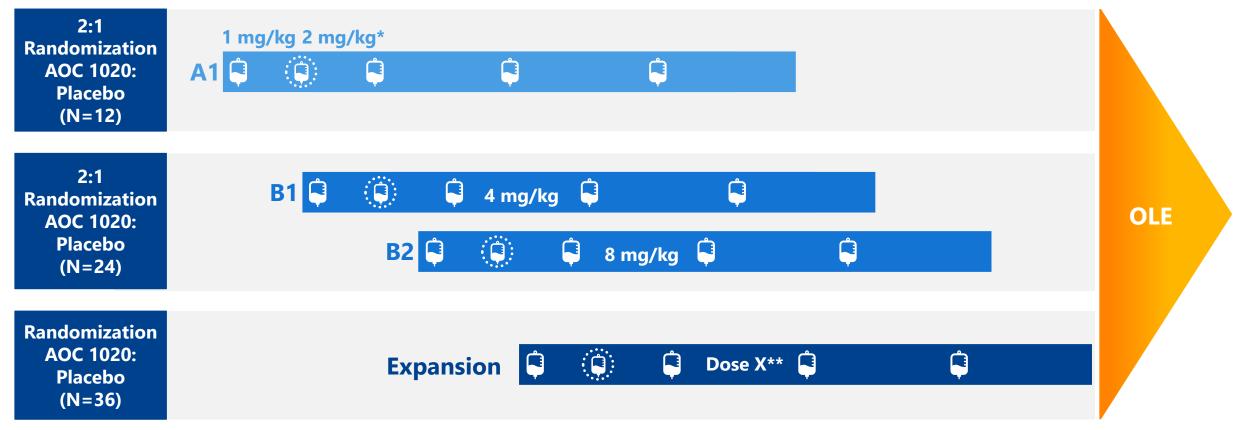
Key Exploratory Objectives

- Pharmacodynamics
- Measures of clinical activity
 - Muscle strength
 - Muscle function
 - Muscle composition
- Patient-reported outcomes (PRO)



Phase 1/2 FORTITUDE Trial Design



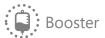


*Participants in A1 receive a first dose of 1mg/kg and then receive the 2mg/kg dose for the remainder of the study.

^{**}Dose to be determined based on emerging data







Multidose quarterly with 1 booster after first 6 weeks; Dose listed is siRNA

Collaboration with FSHD Community to Advance New Treatment Options



Patients and their families are at the heart of everything we do

- Actively working with and supporting FSHD advocacy groups
- Investing in gaining a deep understanding of patient and caregiver perspectives and journey with FSHD
- Continually seeking community input throughout the drug development process to best meet patient needs
- Collaborating with community leaders to address gaps in support services and resources
- Supporting natural history studies with FSHD Clinical Trial Research Network (ReSolve, MOVE-FSHD and MOVE+ studies)















Delivering on FSHD



- FORTITUDE preliminary data in ~half of study participants Q2 2024
- Enrollment of participants with FSHD in FORTITUDE trial Ongoing
- ✓ FDA & EMA Orphan Drug designation Complete
- ✓ FDA Fast Track Designation Complete



Expanding Use of AOCs Beyond Skeletal Muscle

Industry-leading partners validate broad potential of AOC platform; including precision cardiology and immunology

PRECISION CARDIOLOGY

Bristol Myers Squibb

Global licensing & research collaboration focused on up to five cardiovascular indications

Expansion of our Bristol Myers Squibb/MyoKardia single target research arrangement

\$100M up-front plus potential for ~\$2.2B

\$60M upfront payment

\$40M equity investment at a 40% premium

Up to ~\$1.35B in R&D milestone payments, up to ~\$825 million in commercial milestone payments and tiered royalties on net sales

IMMUNOLOGY



Global licensing & research collaboration focused on immunology and other select indications

Up to \$405M

Potential milestone payments per target, plus midsingle to low double-digit tiered royalties



The Experience to Deliver a New Class of RNA Therapeutics

AVIDITY MANAGEMENT TEAM



Sarah Boyce President & CEO





W. Michael Flanagan, PhD
Chief Scientific & Technical Officer



Eric Mosbrooker Chief Strategy Officer



Art Levin, PhDDistinguished Scientist & Strategic Leader



Michael MacLeanChief Financial & Business Officer



John Wallen III, PhD, JD General Counsel

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Steve Hughes, MDChief Medical Officer



Teresa McCarthyChief Human Resources Officer



Kath Gallagher SVP, Global Program Head DM1







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Simona Skerjanec

Board Member

Tamar ThompsonVP, Govt. Affairs and Policy,
Alexion Pharmaceuticals

Sarah Boyce President & CEO, Avidity Biosciences

Art Levin, PhD
Distinguished Scientist &
Strategic Leader,
Avidity Biosciences

Strong Cash Position – Funded Into Late 2026

Q1 2024 financial results

In millions	Q124	Q423	Q123	Q124 vs Q423	Q124 vs Q123
Collaboration revenue	\$3.5	\$2.2	\$2.2	\$1.4	\$1.3
R&D expenses	66.8	52.8	47.8	14.0	19.1
G&A expenses	13.9	16.1	12.1	(2.2)	1.8
Total operating expenses	80.7	68.9	59.8	11.8	20.9
Loss from operations	(77.2)	(66.7)	(57.6)	(10.4)	(19.6)
Other income/expenses, net	8.3	6.3	5.2	2.0	3.1
Net loss	(68.9)	(\$60.4)	(\$52.4)	(8.4)	(\$16.5)
In millions	Q124	Q423			
Cash, cash equivalents and marketable securities	\$915.9	\$595.4	_		

Strong cash position of ~\$915 million provides funding into late 2026
Continue to execute on our three clinical development programs for DM1, DMD44 and FSHD and broaden our
AOC platform into the precision cardiology therapeutic area



Delivering on the RNA Revolution

DM1



On track for initiation of global Phase 3 HARBOR trial Q2 2024

FSHD



Anticipate Phase 1/2 FORTITUDE preliminary data in ~half of participants in Q2 2024

DMD44



Anticipate Phase 1/2
EXPLORE44 patient data in 2H
2024

