



38th Annual J.P. Morgan Healthcare Conference

John F. Crowley, Chairman and Chief Executive Officer
January 14, 2020



Forward-Looking Statements

This presentation contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995 relating to preclinical and clinical development of our product candidates, the timing and reporting of results from preclinical studies and clinical trials, the prospects and timing of the potential regulatory approval of our product candidates, commercialization plans, manufacturing and supply plans, financing plans, business development plans and the projected revenues, sales, expenses and cash position for the Company. The inclusion of forward-looking statements should not be regarded as a representation by us that any of our plans or projections will be achieved. Any or all of the forward-looking statements in this presentation may turn out to be wrong and can be affected by inaccurate assumptions we might make or by known or unknown risks and uncertainties. For example, with respect to statements regarding the goals, progress, timing, and outcomes of discussions with regulatory authorities, and in particular the potential goals, progress, timing, and results of preclinical studies and clinical trials, actual results may differ materially from those set forth in this presentation due to the risks and uncertainties inherent in our business, including, without limitation: the potential that results of clinical or preclinical studies indicate that the product candidates are unsafe or ineffective; the potential that it may be difficult to enroll patients in our clinical trials; the potential that regulatory authorities, including the FDA, EMA, and PMDA, may not grant or may delay approval for our product candidates; the potential that we may not be successful in commercializing Galafold in Europe, Japan, the US and other geographies or our other product candidates if and when approved; the potential that preclinical and clinical studies could be delayed because we identify serious side effects or other safety issues; the potential that we may not be able to manufacture or supply sufficient clinical or commercial products; and the potential that we will need additional funding to complete all of our studies and manufacturing. Further, the results of earlier preclinical studies and/or clinical trials may not be predictive of future results. With respect to statements regarding projections of the Company's revenue, sales, expenses and cash position, actual results may differ based on market factors and the Company's ability to execute its operational and budget plans and strategies. In addition, all forward-looking statements are subject to other risks detailed in our Annual Report on Form 10-K for the year ended December 31, 2018. You are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date hereof. All forward-looking statements are qualified in their entirety by this cautionary statement, and we undertake no obligation to revise or update this presentation to reflect events or circumstances after the date hereof.

Non-GAAP Financial Measures

In addition to financial information prepared in accordance with U.S. GAAP, this presentation also contains adjusted financial measures that we believe provide investors and management with supplemental information relating to operating performance and trends that facilitate comparisons between periods and with respect to projected information. These adjusted financial measures are non-GAAP measures and should be considered in addition to, but not as a substitute for, the information prepared in accordance with U.S. GAAP. We typically exclude certain GAAP items that management does not believe affect our basic operations and that do not meet the GAAP definition of unusual or non-recurring items. Other companies may define these measures in different ways. When we provide our expectation for non-GAAP operating expenses on a forward-looking basis, a reconciliation of the differences between the non-GAAP expectation and the corresponding GAAP measure generally is not available without unreasonable effort due to potentially high variability, complexity and low visibility as to the items that would be excluded from the GAAP measure in the relevant future period, such as unusual gains or losses. The variability of the excluded items may have a significant, and potentially unpredictable, impact on our future GAAP results.

A RARE COMPANY

A leading fully-integrated, global rare disease biotechnology company



First Oral Precision
Medicine for Fabry Disease



Gene Therapy
PLATFORM
Protein Engineering
& Glycobiology



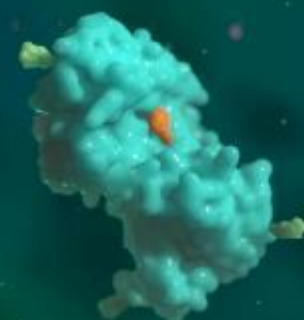
World Class
BIOLOGICS
Capabilities



EMPLOYEES
in 27 Countries



AT-GAA
Phase 3 in
Pompe Disease

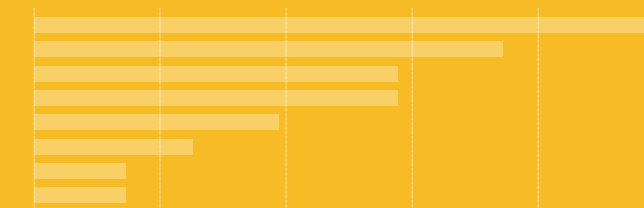


GLOBAL
COMMERCIAL
ORGANIZATION



Robust R&D
Engine

Nearly 50+ Lysosomal
Disorders and More
Prevalent Rare Diseases



~\$450M+
Cash
as of 12/31/19*

**Two Clinical-
Stage Gene
Therapies**



A RARE OPPORTUNITY

A broad and patient-focused portfolio to drive value creation

Galafold
\$1B+
Opportunity

AT-GAA
Pompe ERT
\$1B-2B+
Opportunity

**Gene
Therapy
Portfolio**
\$1B+
Opportunity

To **Transform** the Lives of Thousands of Patients

A RARE PORTFOLIO

	DISCOVERY	PRECLINICAL	PHASE 1/2	PHASE 3	REGULATORY	COMMERCIAL
Fabry Franchise						
Galafold® (migalastat) Monotherapy ODD						
Fabry Gene Therapy	PENN					
Pompe Franchise						
AT-GAA (Novel ERT + Chaperone) ODD						
Pompe Gene Therapy	PENN					
Batten Franchise – Gene Therapies						
CLN6 Batten Disease ODD RPD	NCH					
CLN3 Batten Disease ODD RPD	NCH					
CLN8 Batten Disease	NCH					
CLN1 Batten Disease	NCH					
Next Generation Research Programs and CNS Gene Therapies						
CDKL5 Deficiency Disorder GTx / ERT	PENN					
Niemann-Pick Type C (NPC)	NCH / PENN					
Tay-Sachs Disease	NCH					
Others	NCH / PENN					
MPS Franchise						
Mepsevii™ (vestronidase alfa) <i>(Japan Only)*</i>						
Next Generation MPSIIIA	PENN					
MPSIIIB	PENN					











LEGEND

ODD - Orphan Drug Designation

RPD - Rare Pediatric Disease Designation

*Exclusive license from Ultragenyx for Japanese rights to Mepsevii™, investigator-sponsored trial in Japan underway

2019 Key Strategic Priorities

- 1  **Nearly double annual revenue for Galafold (guidance \$160M-\$180M)** 
- 2  **Complete enrollment in AT-GAA Pivotal Study (PROPEL) and report additional Phase 2 data** 
- 3  **Report additional 2-year clinical results in CLN6 Batten disease and substantially complete enrollment in ongoing CLN3 Phase 1/2 study** 
- 4  **Establish preclinical proof of concept for Fabry and Pompe gene therapies** 
- 5  **Maintain strong financial position** 

2020 Key Strategic Priorities

- 1** **Achieve global product revenue for Galafold of \$250M-\$260M**
- 2** **Complete Pompe Phase 3 PROPEL study, enroll pediatric studies and advance manufacturing to support 2021 BLA and MAA**
- 3** **Advance clinical development, manufacturing and regulatory discussions for CLN6 and CLN3 Batten programs**
- 4** **Progress Pompe gene therapy towards IND and disclose up to two additional IND candidates**
- 5** **Maintain strong financial position**

Our Passion for Making a Difference Unites Us

Amicus is now poised to create significant shareholder value while advancing our mission for patients



Key Takeaways

Recent successes across our science, clinical, regulatory and commercial efforts position us for the future



Galafold Continues
Strong Launch
Performance &
Cornerstone of
Amicus Success



AT-GAA for Pompe
Advances Toward
Approval as “Crown
Jewel” of Amicus
Portfolio



Portfolio of Gene
Therapy Programs
and Technologies
Provides Foundation
for Future



Strong Financial
Outlook with Current
Cash Well into 2022



Fabry Disease Overview

“We support the disease communities – and their families”

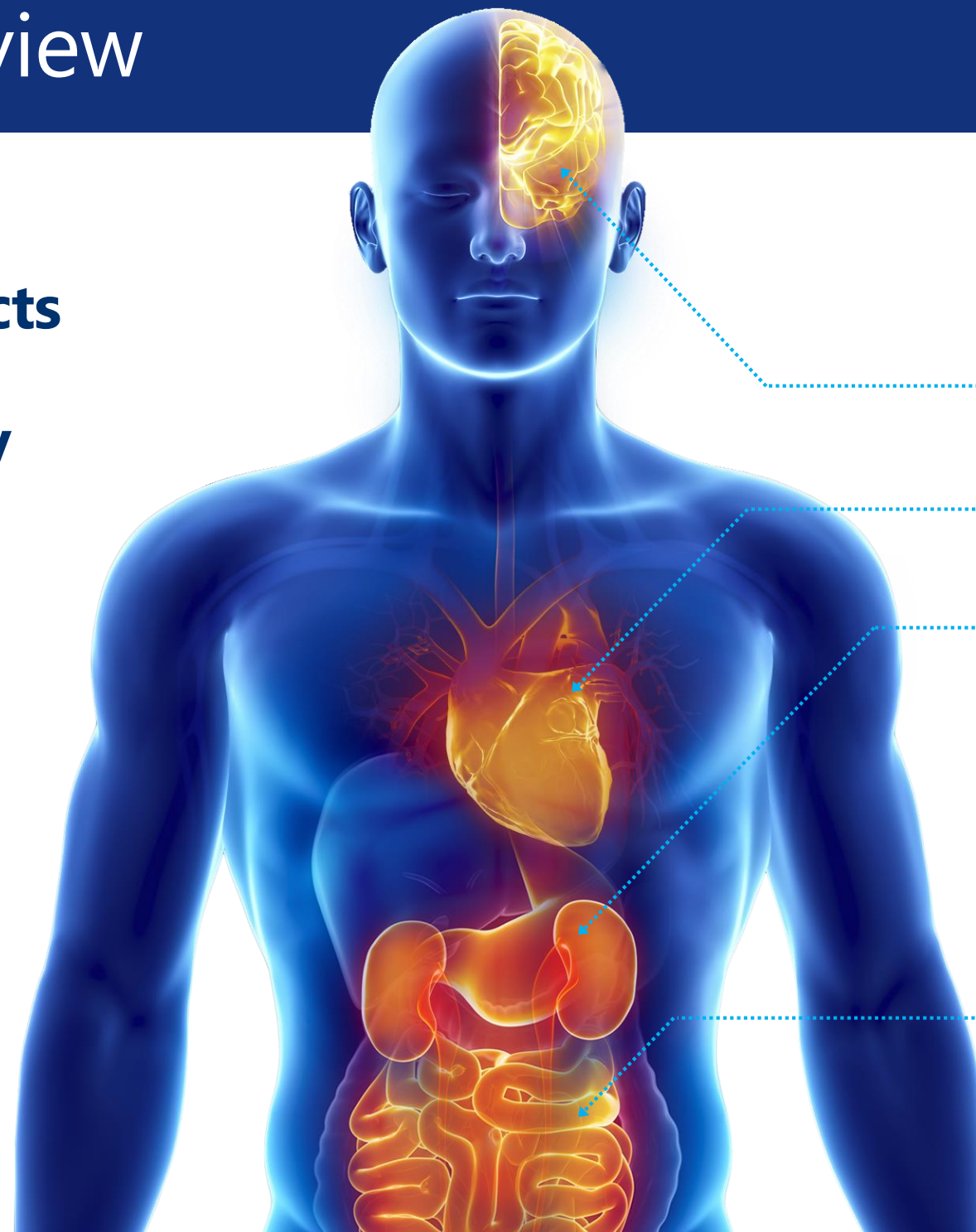
- Amicus Belief Statement

Fabry Disease Overview

Fabry Disease is a Fatal Genetic Disorder that Affects Multiple Organs and is Believed to be Significantly Underdiagnosed

Key Facts:

- α -Gal A enzyme deficiency leads to substrate (GL-3) accumulation
- >1,000 known mutations
- ~10K diagnosed WW (51% female/49% male⁴)
- Newborn screening studies suggest 5-10 fold greater incidence (~1:1000 - 1:4000)



Leading Causes of Death:

Transient Ischemic Attack (TIA) & Stroke¹

Heart Disease²

Kidney Disease³

Life-Limiting Symptoms:

Gastrointestinal³



Galafold[®] (migalastat) Global Launch...

...taking a leadership role in the
treatment of Fabry disease

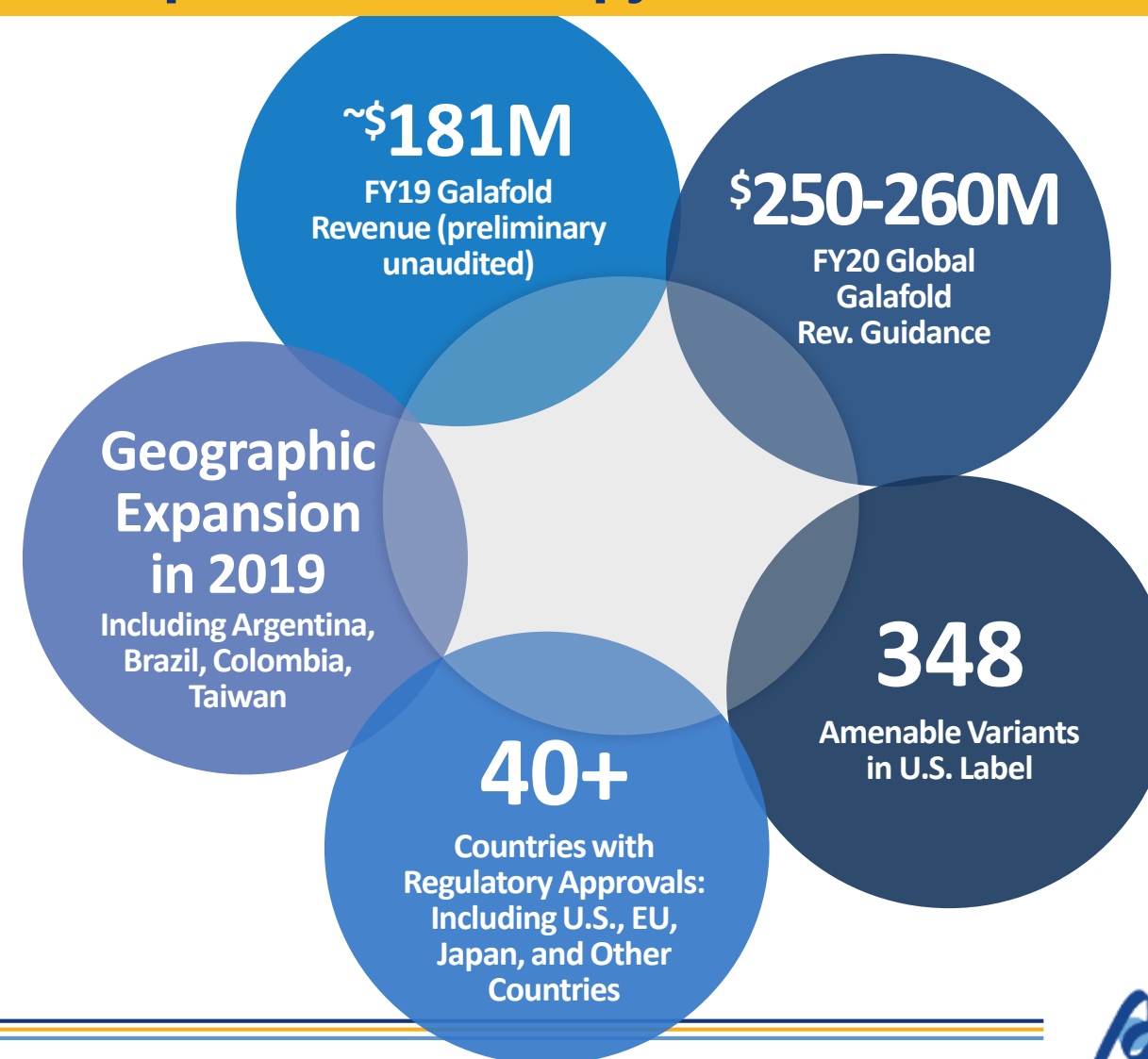
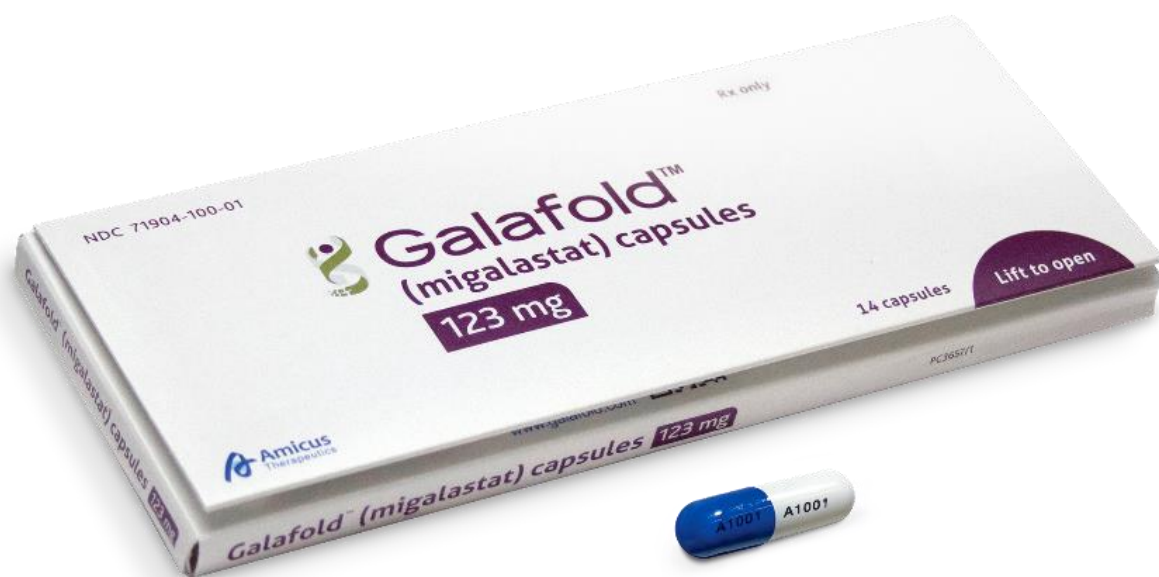
“We push ideas as far and as fast as possible”

- Amicus Belief Statement

Galafold Snapshot (as of December 31, 2019)

Galafold is the cornerstone of Amicus' success. It is an orally delivered small molecule precision medicine with a unique mechanism of action for Fabry patients with amenable variants that replaces the need for intravenously delivered enzyme replacement therapy

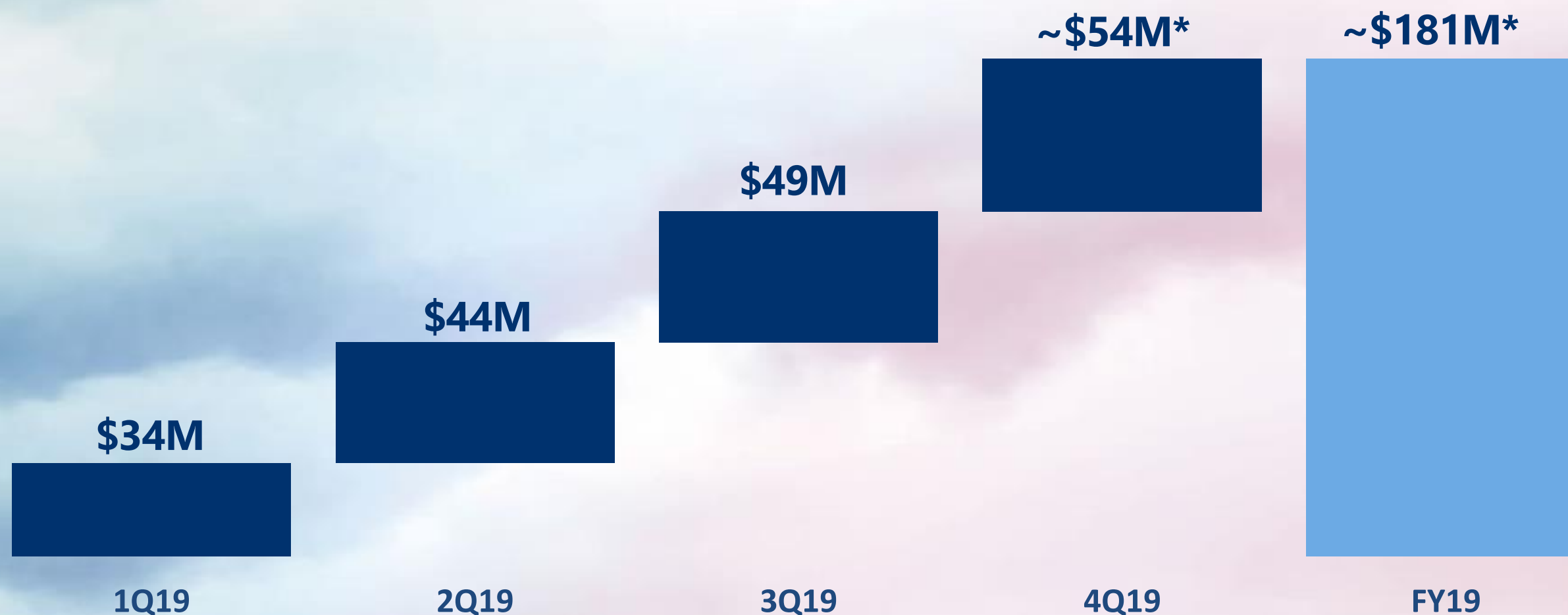
One of the Most Successful Rare Disease Launches



Galafold is indicated for adults with a confirmed diagnosis of Fabry Disease and an amenable mutation/variant. The most common adverse reactions reported with Galafold (≥10%) were headache, nasopharyngitis, urinary tract infection, nausea and pyrexia. For additional information about Galafold, including the full U.S. Prescribing Information, please visit <https://www.amicusrx.com/pi/Galafold.pdf>. For further important safety information for Galafold, including posology and method of administration, special warnings, drug interactions and adverse drug reactions, please see the European SmPC for Galafold available from the EMA website at www.ema.europa.eu.

Galafold Success and FY19 Galafold Revenue Guidance

Strong full-year performance of ~\$181M (preliminary/unaudited) revenue, exceeding guidance of \$170-\$180M



*Preliminary and unaudited

Galafold Global Launch Momentum (as of December 31, 2019)

Global commercial metrics continue to be very strong with >90% compliance and adherence, 30% global market share of treated amenable patients and continued broad market access

FY19 Strength Reflects Positive Momentum Across All Key Global Commercial Metrics and 1,000+ Treated Patients

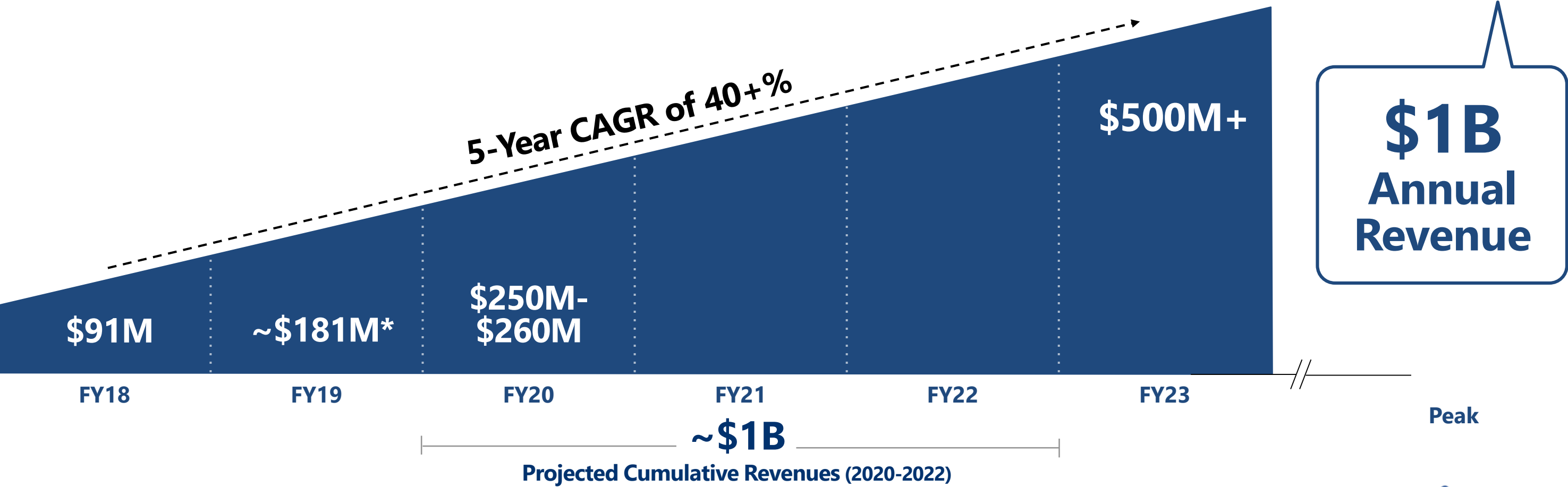
- **Global:** 30%+ estimated global market share of treated amenable patients (as of 9/30/19)*
- **U.S.:** Steady growth in adoption from 100+ prescribers and broad reimbursement coverage
- **EU:** Accelerated patient growth in new and established markets throughout 2019
- **APAC:** Continued strong contribution from Japan and Australia
- **LATAM:** New approvals in Brazil, Colombia and Argentina lay strong foundation for future growth
- **Demographics:** Global mix of switch (65%) and previously untreated patients (35%)



*Market share based on reported global Fabry sales for the calendar year ending 3Q19 and assumes a 35% amenability rate.

Galafold Growth Trajectory

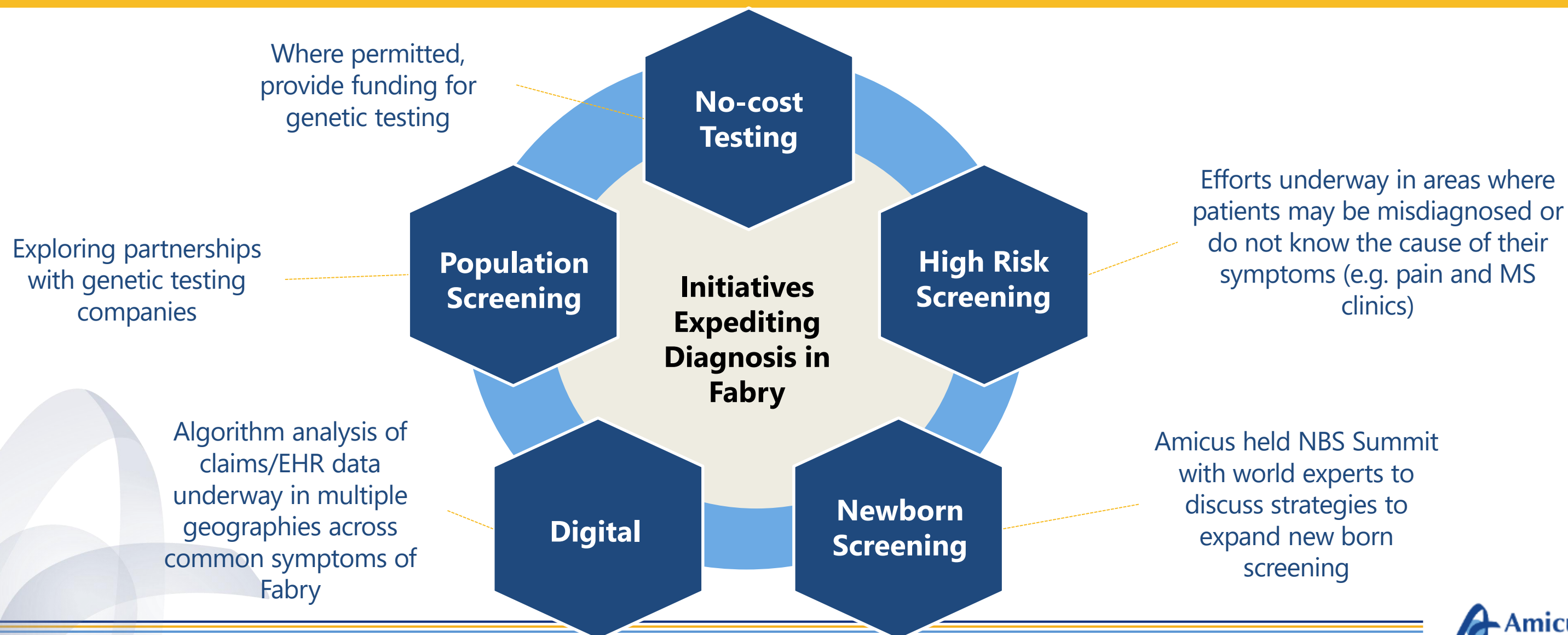
Galafold is on track to generate \$1B+ in projected cumulative revenues from 2020-2022 and is on an anticipated path to \$500M+ in annual sales in 2023 and \$1B+ annual sales at peak



*Preliminary and unaudited

Fabry Disease Diagnostic and Growth Drivers

Fabry disease is both underdiagnosed and misdiagnosed. Expanded screening initiatives have the potential to drive a shorter pathway to correct diagnosis for individuals living with Fabry disease



Galafold Opportunity

With inherent Fabry market growth and our work to improve diagnosis and screening, Galafold has the potential to drive \$1B+ annual revenue at peak.





AT-GAA: Next Potential Standard of Care for Pompe Disease

“We encourage and embrace constant innovation”

- Amicus Belief Statement

Pompe Disease Overview

Pompe disease is a severe and fatal muscular dystrophy and one of the most prevalent lysosomal disorders with very high unmet medical need



5,000 – 10,000+ patients diagnosed WW¹; newborn screening suggests underdiagnosis

Age of onset ranges from infancy to adulthood

Patients on current standard of care decline after ~2 years

Respiratory and cardiac failure are leading causes of morbidity and mortality

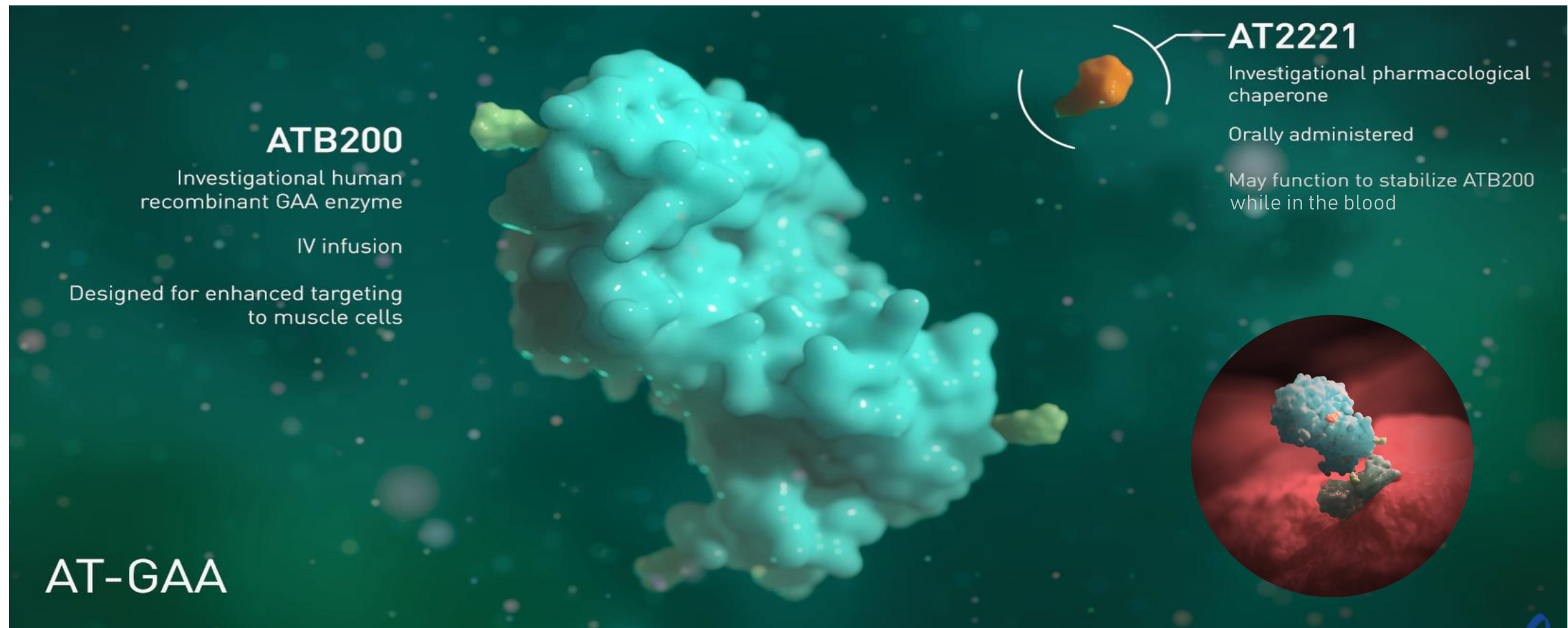
Deficiency of GAA leading to glycogen accumulation and cellular dysfunction

Symptoms include muscle weakness, respiratory failure, and cardiomyopathy

~\$1B+ global Pompe ERT sales²

AT-GAA: Foundation in Protein Engineering

Amicus scientists specializing in protein engineering and glycobiology created a uniquely glycosylated and highly phosphorylated ERT (AT-GAA) that significantly enhances targeting to key muscles affected in patients



U.S. FDA Granted BTDD to AT-GAA in Late-Onset Pompe Disease (LOPD)

AT-GAA is the first ever second-generation product for any lysosomal disorder to earn FDA Breakthrough Therapy Designation (BTDD)

Plans to apply for and initiate a rolling BLA submission for AT-GAA in LOPD in 2020



AT-GAA BTDD Based on Ph 1/2 Clinical Efficacy

- Improvements in 6-minute walk distance
- Comparison to natural history of treated patients



BTDD Features

- Intensive guidance on an efficient drug development program
- Organizational commitment involving senior agency staff
- All Fast Track program features including rolling submission



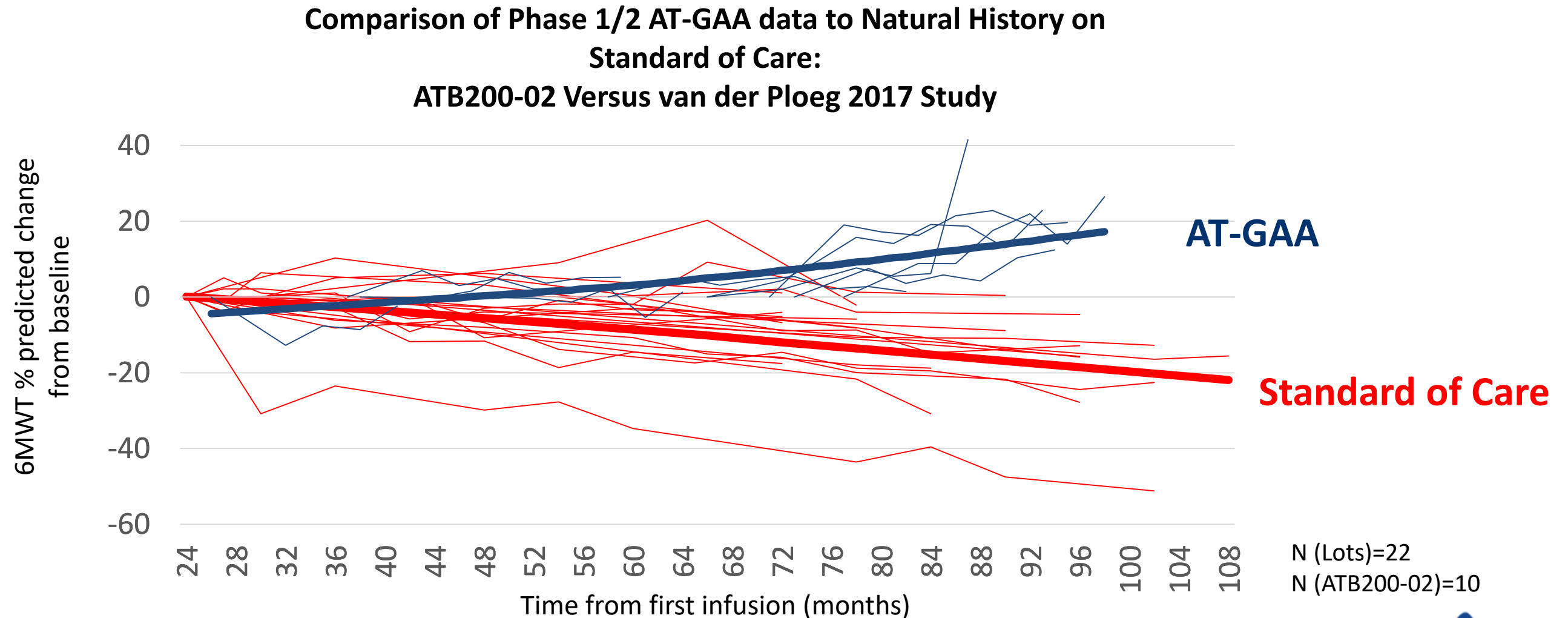
BTDD Criteria

- Intended to treat a serious or life-threatening disease or condition
- Preliminary clinical evidence indicates drug may demonstrate substantial improvement over existing therapies on one or more clinically significant endpoints

6MWT Natural History: Phase 1/2 AT-GAA Data vs. Medical Literature

van der Ploeg 2017

Improvement in percentage predicted 6MWD seen in all patients who switched from alglucosidase alfa to AT-GAA



1. Data for AT-GAA represent time from first infusion of SOC ERT and change from baseline at the time of switching from SoC to AT-GAA
2. Source: ATB200-02 IA#7; Ans T. van der Ploeg et al. Poster presented at the 13th Annual WORLD Symposium™ 2017, February 13–17, 2017, San Diego, CA, USA

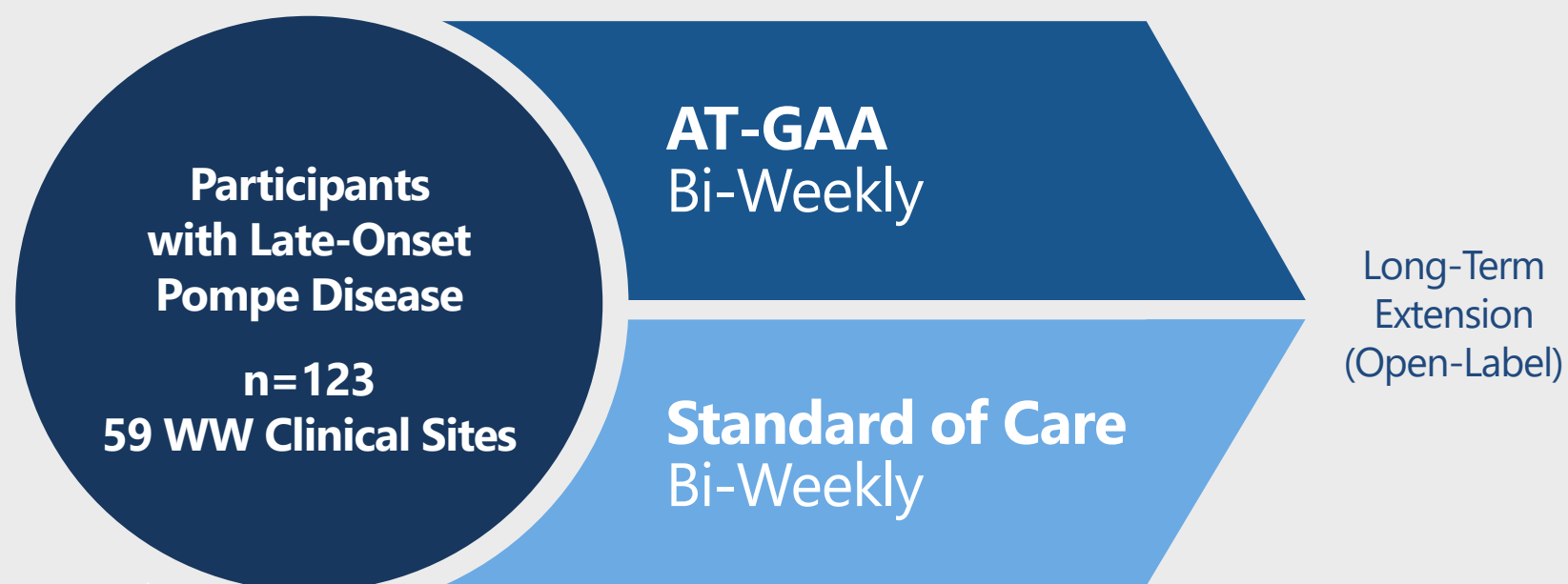
PROPEL (ATB200-03) Study Design



Phase 3 exceeded enrollment with data expected in 1H2021. The study is highly powered for success and supports a broad label, with FDA and EMA agreement on study design and primary endpoint (6MWT)

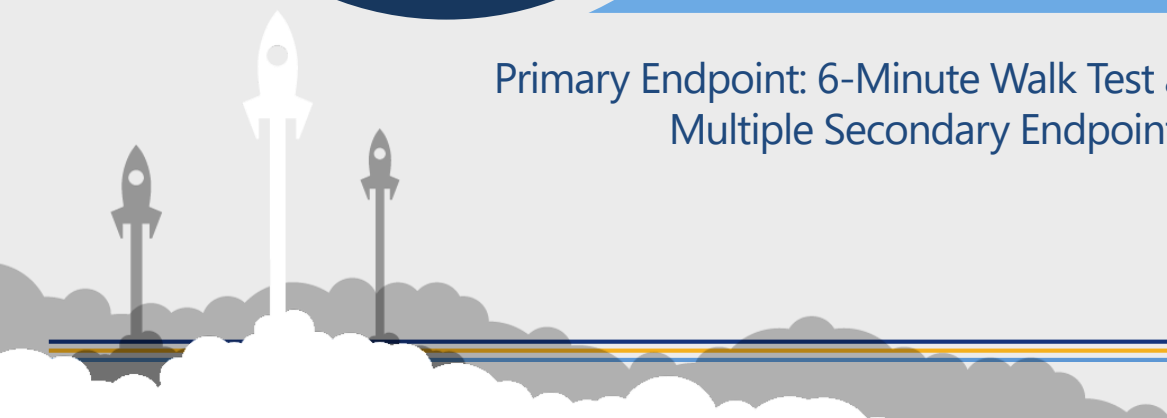
52-Week Primary Treatment Period (Double-Blind)

2:1 Randomization



Primary Endpoint: 6-Minute Walk Test at Week 52;
Multiple Secondary Endpoints

- PROPEL pivotal study over-enrolled with data expected in 1H2021
- Study includes ERT-Switch and ERT-Naïve Patients
- FDA and EMA agreed upon primary endpoint of 6MWD, an integrated measure of disease progression that evaluates both cardiopulmonary and musculoskeletal systems



Pompe Biologics Manufacturing

Amicus and partner WuXi Biologics have successfully produced AT-GAA at 1,000L commercial scale, demonstrating unique capabilities in Amicus biologics process science, manufacturing and quality control

- **Manufacturing PPQ runs at WuXi biologics are underway**
- **Agreements on biocomparability between 250L and 1,000L scale with key regulators (FDA, BfARM)**
- **All PROPEL participants treated with drug manufactured at 1,000L**
- **Current bioreactor capacity to supply global population**

AT-GAA: Key Takeaways



AT-GAA for Pompe
Advances Toward
Approval as “Crown
Jewel” of Amicus
Portfolio

- PROPEL pivotal study exceeded enrollment with data expected 1H2021
- Breakthrough Therapy Designation and the Promising Innovative Medicine designation highlight unmet need in Pompe disease today
- Plan to submit and initiate rolling submission of Biologics License Application in 2020
- Manufacturing PPQ runs at WuXi biologics on track
- Peak revenue potential of \$1B-\$2B, with exclusivity well into 2030s



Next Generation Gene Therapy Platform



“We have a duty to obsolete our own technologies”

- Amicus Belief Statement

A Natural Evolution: Chaperones to Optimized ERT to Gene Therapy

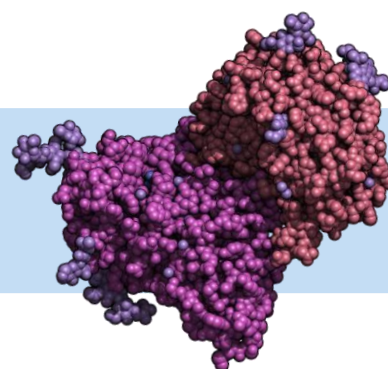
Amicus' expansion into gene therapy is built upon years of experience in developing genetic medicines designed to deliver deficient proteins to target cells and organelles

Pharmacological
Chaperones



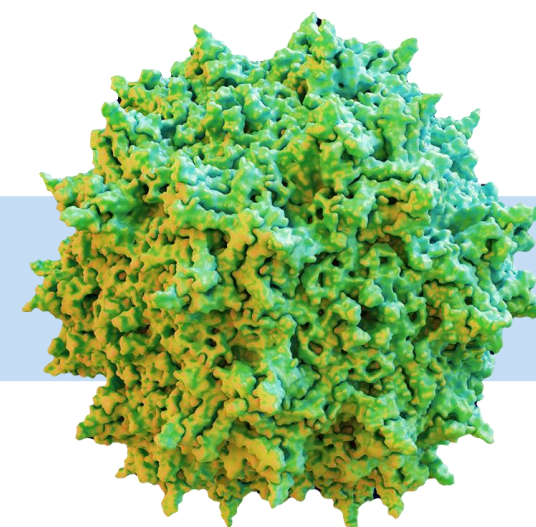
Stabilize
“naturally produced” enzymes

Next-Generation
ERTs



Stabilize and target
“externally produced” enzymes

Gene
Therapies



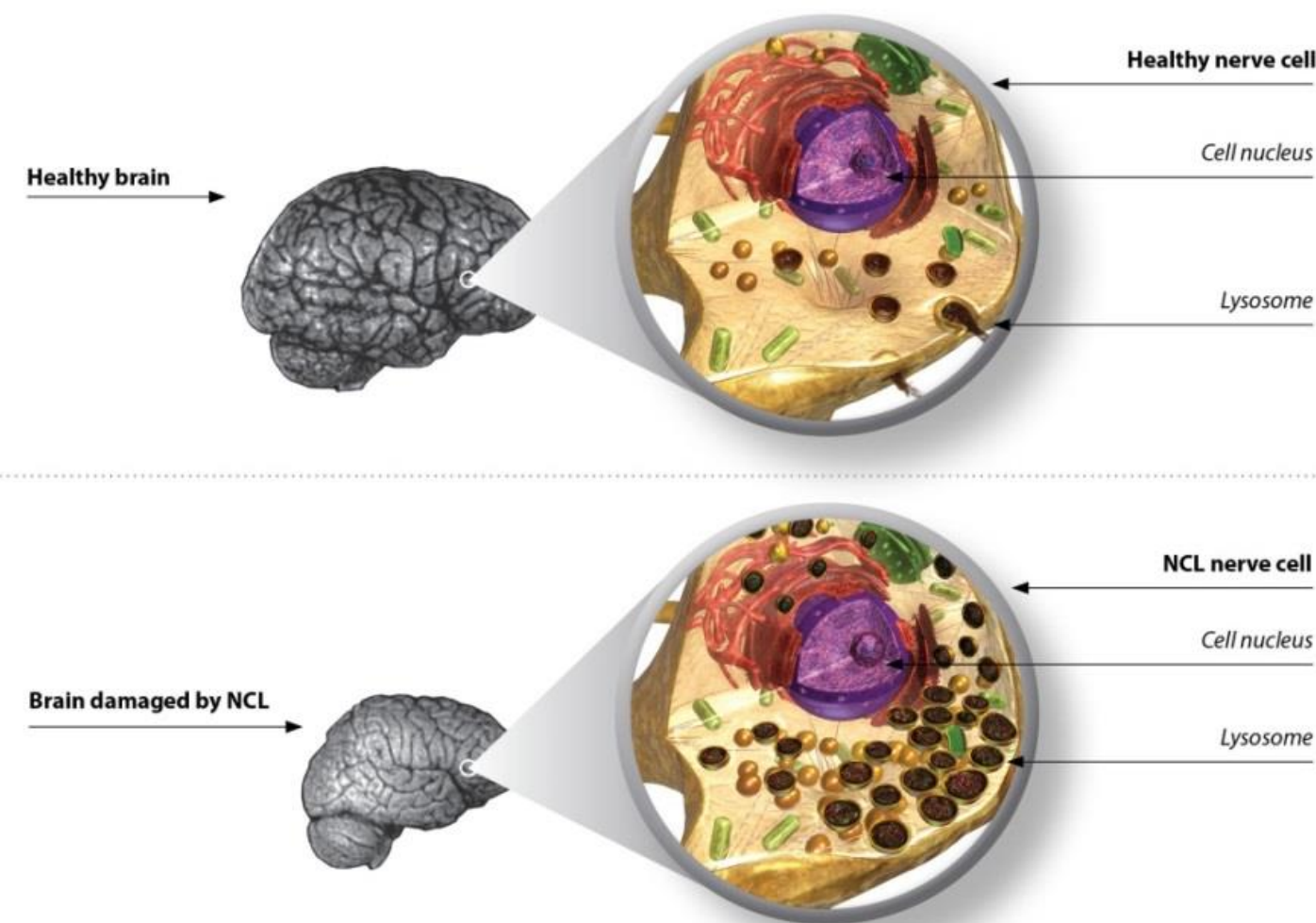
Stabilize and target
“internally produced” enzymes

Batten Disease Overview

Batten disease is a devastating early childhood disease that is 100% fatal in children

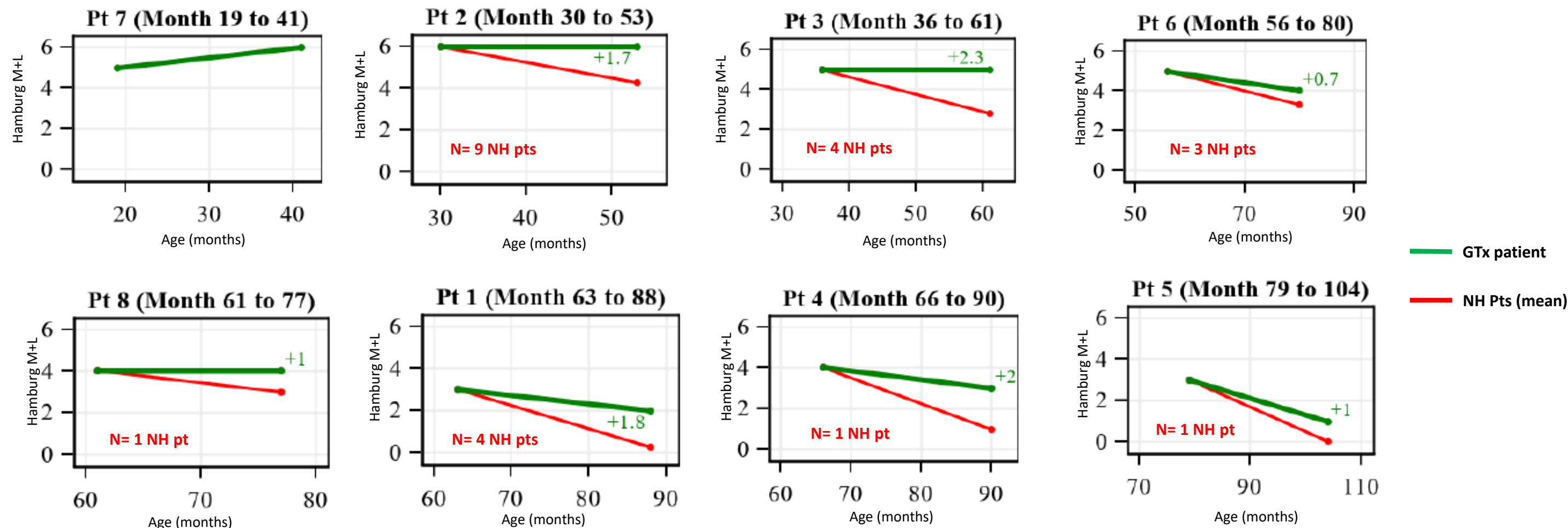
Disease Overview

- A group of disorders known as neuronal ceroid lipofuscinoses (NCLs), collectively referred to as Batten disease
- Mutation in one of 13 different CLN genes leads to lysosomal dysfunction
- Signs and symptoms include loss of speech, ambulation, vision and cognition



CLN6 Clinical Efficacy Data: Natural History Matched Comparisons

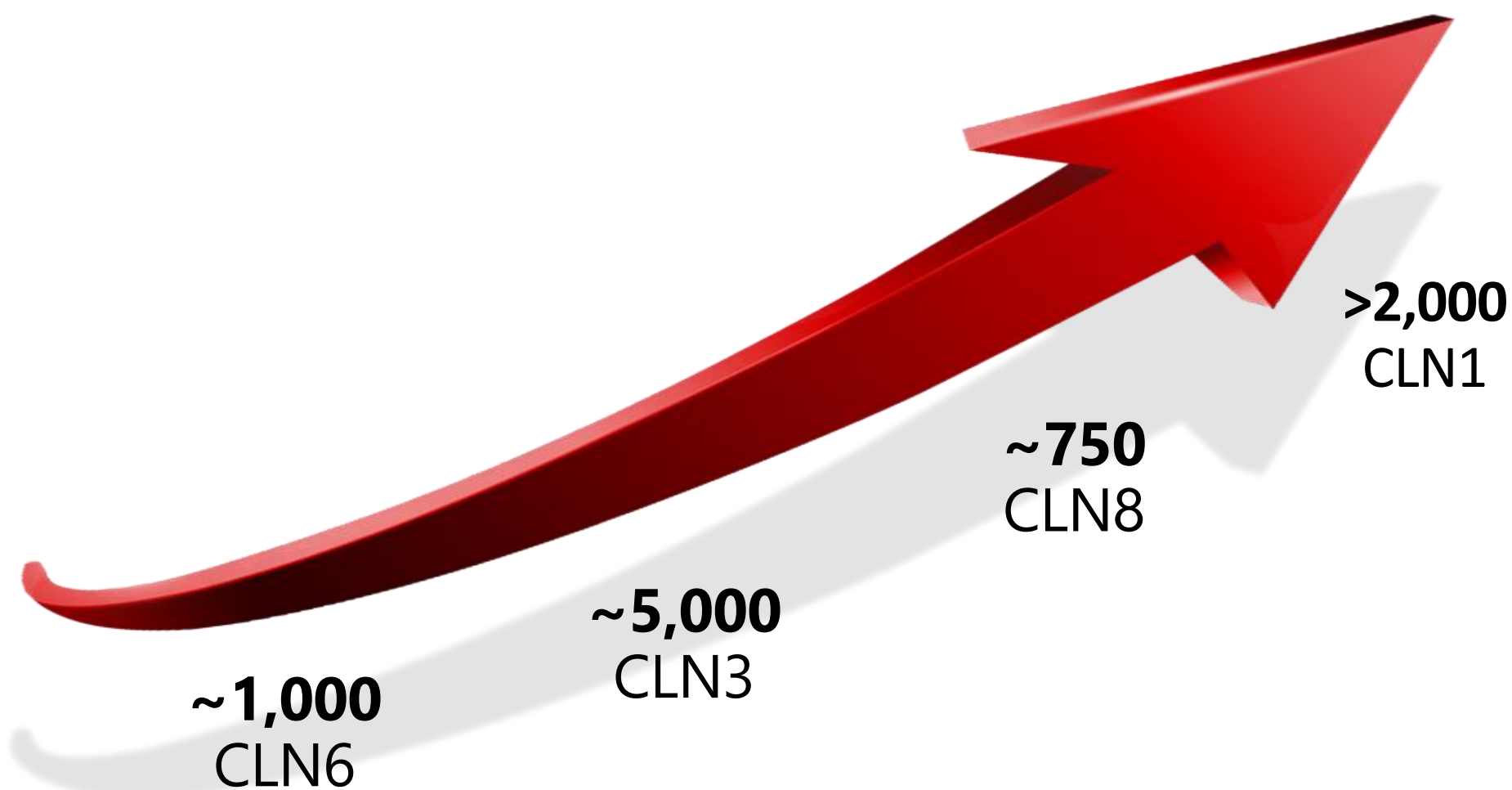
Analysis of treated patients demonstrates improvement compared to natural history patients matched for age and baseline Hamburg M+L score*



*Matched for age and exact baseline Hamburg score. No current match (for age and exact M+L score at baseline) for youngest patient (pt. 7)

Batten Disease Franchise

CLN6 results validate the broad potential of the intrathecal AAV platform to build a valuable and significant franchise to save thousands of children suffering from multiple types of Batten diseases with potential for \$1B+ in recurring peak revenue



Combines Amicus and Penn Expertise Across Lysosomal and Rare Diseases

Combines Amicus expertise in protein engineering with Penn expertise in AAV vectors, manufacturing and immunology to improve safety, efficacy and speed development



**Protein
Engineering &
Glycobiology
Expertise**

**Clinical and
Regulatory
Expertise**

**Global Commercial
Infrastructure**

Next- Generation Gene Therapy Platform

**Team of 200+
scientists bringing
expertise and
experience in:**

Vectors, Tropisms,
Capsids
Safety
Dosing,
Immunology
Manufacturing,
Scalability

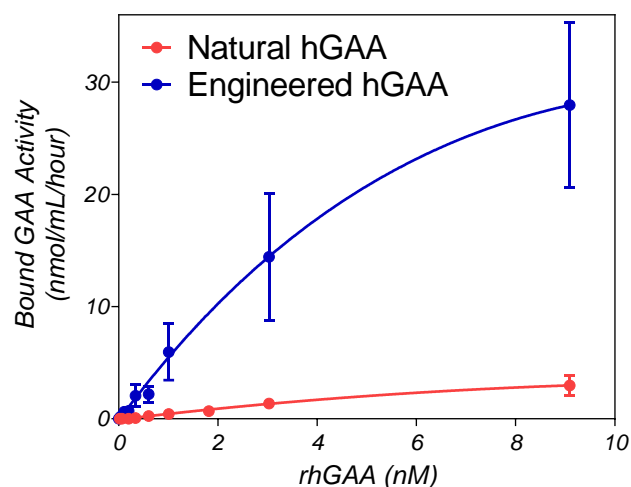


Driving 1-2 new INDs every year starting in 2020

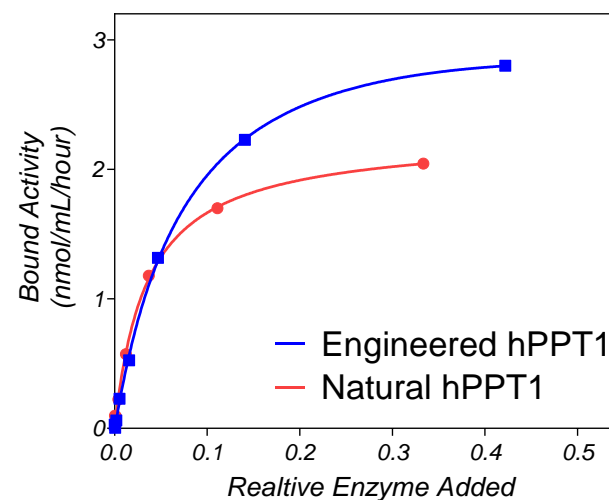
Protein Engineering Platform Has Potential To Be Broadly Applicable to Gene Therapies For Majority of LDs

Amicus has repeatedly validated the protein engineering platform approach in multiple indications to design transgenes with improved cellular uptake

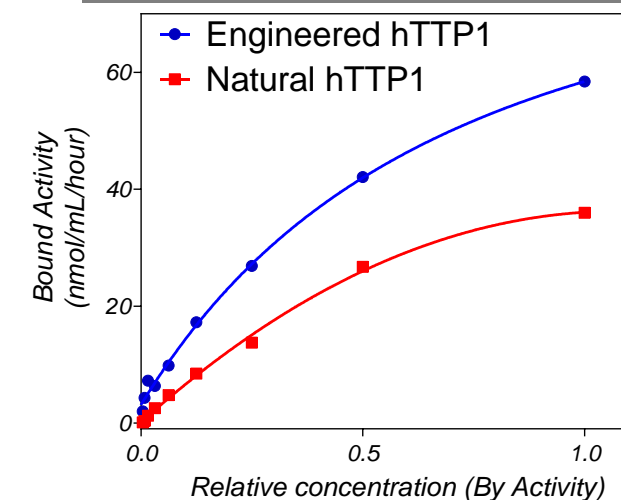
Pompe - GAA



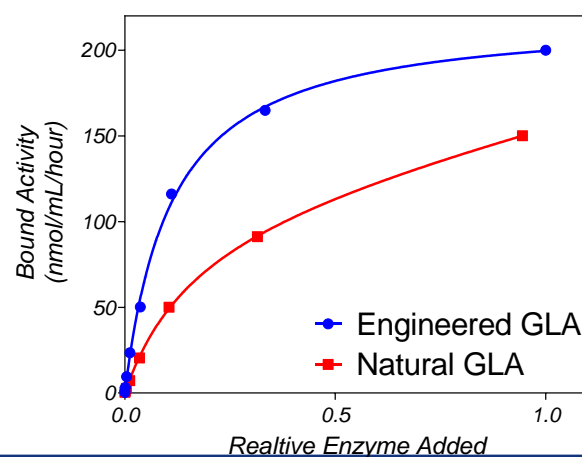
CLN1 – PPT1



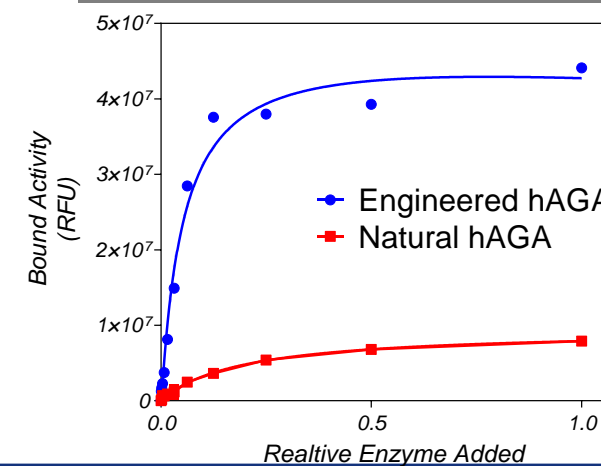
CLN2 – TTP1



Fabry – GLA

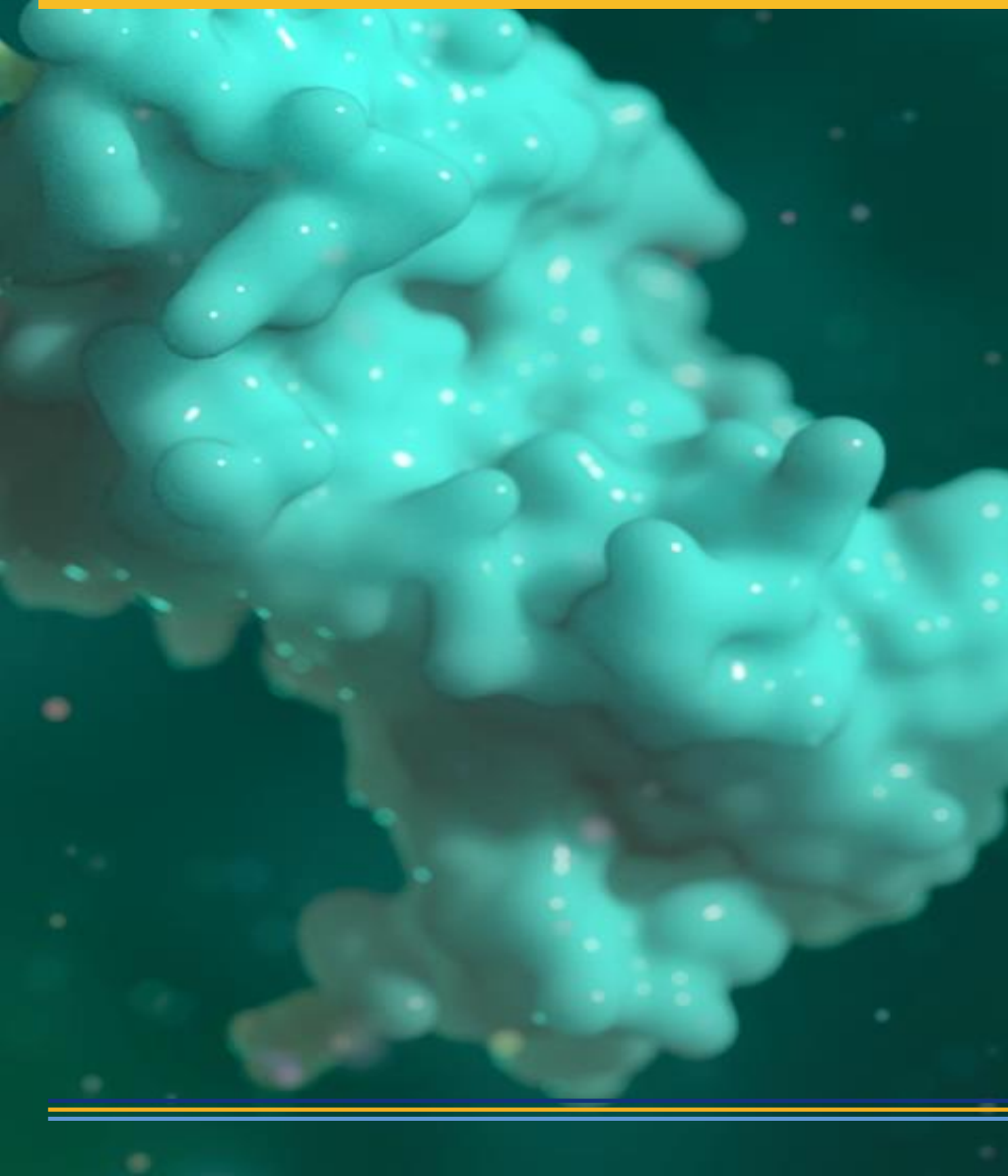


AGU – AGA



Pompe Gene Therapy Summary and Next Steps

Initial Pompe preclinical gene therapy data demonstrate differentiated profile and clear pathway toward the clinic



- Clinical candidate selected
- Toxicology batch manufacturing and GMP tech transfer to Paragon underway
- IND enabling toxicology work in progress
- Potential to enter clinic in 1H2021

Gene Therapy: Key Takeaways



- CLN6 data show profound impact as compared to natural history matched for age and baseline. Potential to become first ever approved gene therapy for fatal brain disease in children
- AAV intrathecal platform increasingly gives confidence in CLN3 program (largest cause of childhood neurodegeneration, 5,000+ children)
- Penn Collaboration R&D engine, with rights to 50+ diseases and access to world class gene therapy technology and expertise
- 2 clinical and 8 preclinical gene therapies in development and one clinical candidate now generated (Pompe)



Financial Summary & Milestones

“We are business led and science driven”
- Amicus Belief Statement

Cash Runway Now to Well into 2022 (~2.5 years)

Fully funded through major milestones in portfolio and continued global growth

Fabry Franchise

Galafold®(migalastat) Monotherapy						
Fabry Gene Therapy	PENN					

Pompe Franchise

AT-GAA (Novel ERT (one))						
Pompe Gene Therapy	PENN					

Batten Franchise

CLN6 Batten	NCH					
CLN3 Batten	NCH					
CLN8 Batten	NCH					
CLN1 Batten	NCH					

Next-generation Ocular and CNS Gene Therapies

CDKL5 Deficiency	PENN					
Niemann-Pick	NCH / PENN					
Tay-Sachs Disease	NCH					
Other	NCH / PENN					

MPS Franchise

Mepsevii™ (vestronidase alfa) (Japan Only)*						
Next Generation MPSIIIA	PENN					
MPSIIIB	PENN					


~\$450M+ Cash YE2019*

~2.5 Years Cash Runway

Well into 2022

*Preliminary and unaudited

Financial Outlook: Key Takeaways

- 
- Company now fully funded through major milestones in portfolio and continued global growth
 - Cumulative Galafold projected revenue of \$1B+ in 2020-2022 offsets significant majority of company spend/investments
 - Extended cash flow runway through OpEx savings, CapEx phasing, program prioritization and increased Galafold revenue projections
 - No material business development planned or needed in next several years
 - Only modest additional capital required in the outer years to extend runway into profitability with multiple non-equity sources available as/when needed

At Major Inflection Point: Path to Profitability

Clear strategy to build our business, advance our portfolio and achieve profitability with the following key priorities:

- Grow Galafold
- Advance AT-GAA to pivotal data, global approvals and launch
- Progress CLN6, CLN3 and Pompe gene therapies into and through the clinic
- Generate 1-2 gene therapy INDs every year starting in 2021
- Discover and develop next generation protein engineering and gene therapy technologies with Penn

Only modest additional capital required in outer years to extend runway into profitability with multiple non-equity sources available as/when needed

Thank You



Appendix

Financial Summary & Guidance

Strong Balance Sheet with ~\$450M+ Cash – Cash Runway Well into 2022

FINANCIAL POSITION

Cash ¹	~\$450M+
Cash Runway ²	Well Into 2022
Debt ^{1,3}	\$152.8M

CAPITALIZATION

Shares Outstanding (as of 12/31/2019)	255,417,869
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FINANCIAL GUIDANCE

FY20 Galafold Revenue Guidance	\$250M-\$260M
FY20 Non-GAAP Operating Expense Guidance	\$410M-\$420M

¹ Preliminary and unaudited ²Based on existing operating plan ³Includes \$2.8 million of convertible debt and \$150 million of straight debt