



Jefferies 2019 Healthcare Conference

Daphne Quimi, Chief Financial Officer
June 7, 2019



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, and the projected revenues 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 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 release 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 and cash position, actual results may differ based on market factors and the Company's ability to execute its operational and budget plans. 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 news release to reflect events or circumstances after the date hereof.

A RARE COMPANY.

 **Galafold™**
(migalastat)

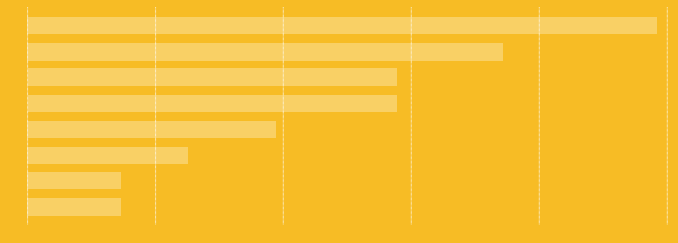
First Oral Precision
Medicine for Fabry Disease



600+
EMPLOYEES
in 27 Countries

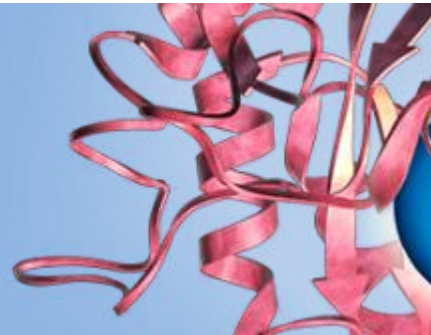


PORTFOLIO
for rare diseases

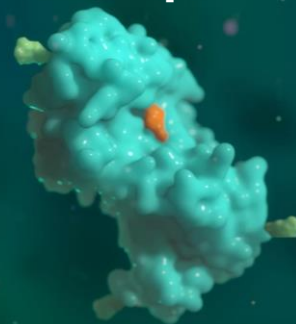


Gene Therapy
PLATFORM

Protein Engineering
& Glycobiology



AT-GAA*
Phase 3
Investigational
Therapy for
Pompe



\$400M+
Cash
(3/31/19)

**Global Drug
Development**



**GLOBAL
COMMERCIAL
FOOTPRINT**



**Robust R&D
Engine**

Nearly 50+ Lysosomal
Disorders and More
Prevalent Rare Diseases



* AT-GAA, also known as ATB200/AT2221

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 1/2 data**
- 3** **Report additional 2-year clinical results in CLN6-Batten disease and complete enrollment in ongoing CLN3-Batten disease Phase 1/2 study**
- 4** **Establish preclinical proof of concept for Fabry and Pompe gene therapies**
- 5** **Maintain strong financial position**

Rare Disease Operational Excellence

Proven Capabilities Position Amicus at the Forefront of Human Genomic Medicine to Develop and Deliver the Highest Quality Therapies and Cures for Persons Living with Rare Diseases

5 Key Pillars of Value



**Innovation/
Science**



**Global
Development**



**Global
Commercial**



Manufacturing



Partnerships

A RARE PORTFOLIO.

	DISCOVERY	PRECLINICAL	PHASE 1/2	PHASE 3	REGULATORY	COMMERCIAL
Fabry Franchise						
Galafold® (migalastat) monotherapy						
Fabry Gene Therapy	PENN					
Pompe Franchise						
AT-GAA (Novel ERT + Chaperone)						
Pompe Gene Therapy	PENN					
Batten Franchise – Gene Therapies						
CLN6 Batten Disease	NCH					
CLN3 Batten Disease	NCH					
CLN8 Batten Disease	NCH					
CLN1 Batten Disease	NCH					
Other Rare CNS Gene Therapies						
CDKL5 Deficiency Disorder GTx / ERT	PENN					
Niemann-Pick Type C (NPC)	NCH / PENN					
Tay-Sachs Disease	NCH					
Other	NCH / PENN					
MPS Franchise						
Next Generation MPSIIIA	PENN					
MPSIIIB	PENN					
Next Generation Research Program						

Advancing one of the **most robust rare disease portfolios** in biotechnology



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 March 31, 2019)

One of the Most Successful Rare Disease Launches



\$34.0M
1Q19 Galafold Revenue

\$160-180M
FY19 Global Galafold Rev. Guidance

Geographic Expansion in 2019

 **Galafold™**
(migalastat)

24
Countries with Pricing & Reimbursement

8
Regulatory Approvals:
Australia, Canada, EU, Israel, Japan, S. Korea, Switzerland, U.S.

348
Amenable Variants in U.S. Label

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 Global Launch Momentum (as of March 31, 2019)

Q1 was very strong with largest number of net new patient adds (150+) and positive momentum across all key commercial metrics

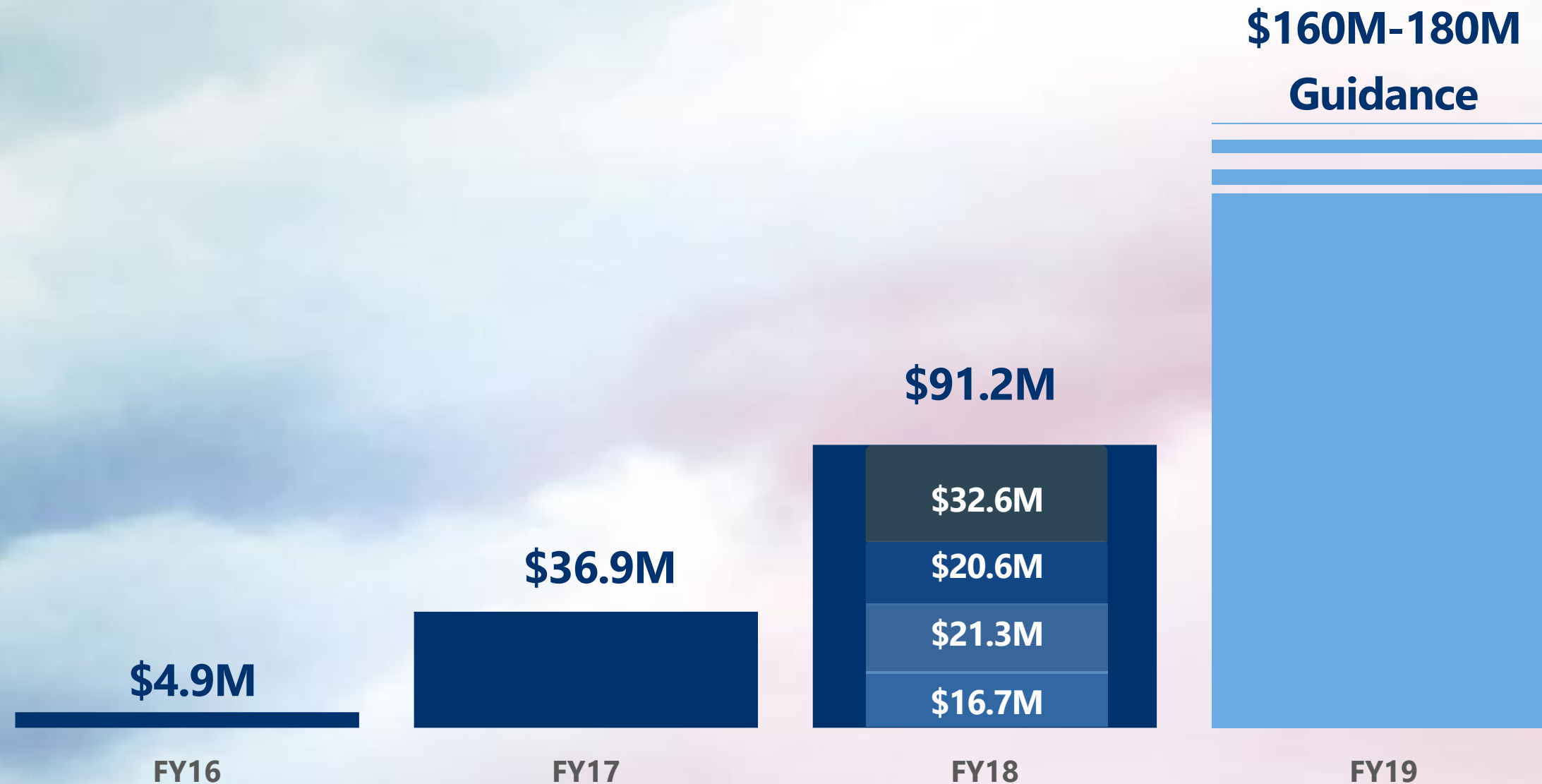
- **Global:** 150+ new patient adds with continued >90% compliance and adherence. Now estimate ~18% global market share of treated amenable patients*
- **U.S:** 200+ prescription referral forms (PRFs) from 90+ prescribers (as of April 30); shortening time from PRF to shipment
- **International:** strong growth from both switch and previously untreated patients
- **Japan:** Q1 patients ahead of forecast with expanded commercial team
- **Demographics:** balanced mix of males and females, classic and late-onset patients across all markets



*Market share based on reported 2018 global Fabry sales and assumes a 35% amenability rate for Galafold.

Galafold Success and FY19 Galafold Revenue Guidance

On Track to Nearly DOUBLE Revenue Again and Serve 1,000+ Patients in 2019



Total Amenable Patient Population ("TAPP")

Estimate based on 35% - 50% amenability

\$1B+ Addressable Market Opportunity by 2028

Upside Potential

WORLDWIDE

Diagnosis grows due to newborn screening and patient finding initiatives in U.S. & Japan

TAPP: 4,700-6,750

Peak Potential

WORLDWIDE

Diagnosis continues at current rate

TAPP: 4,200-6,000

Today

WORLDWIDE*
(U.S. & Japan Added)

TAPP: 3,800-5,500

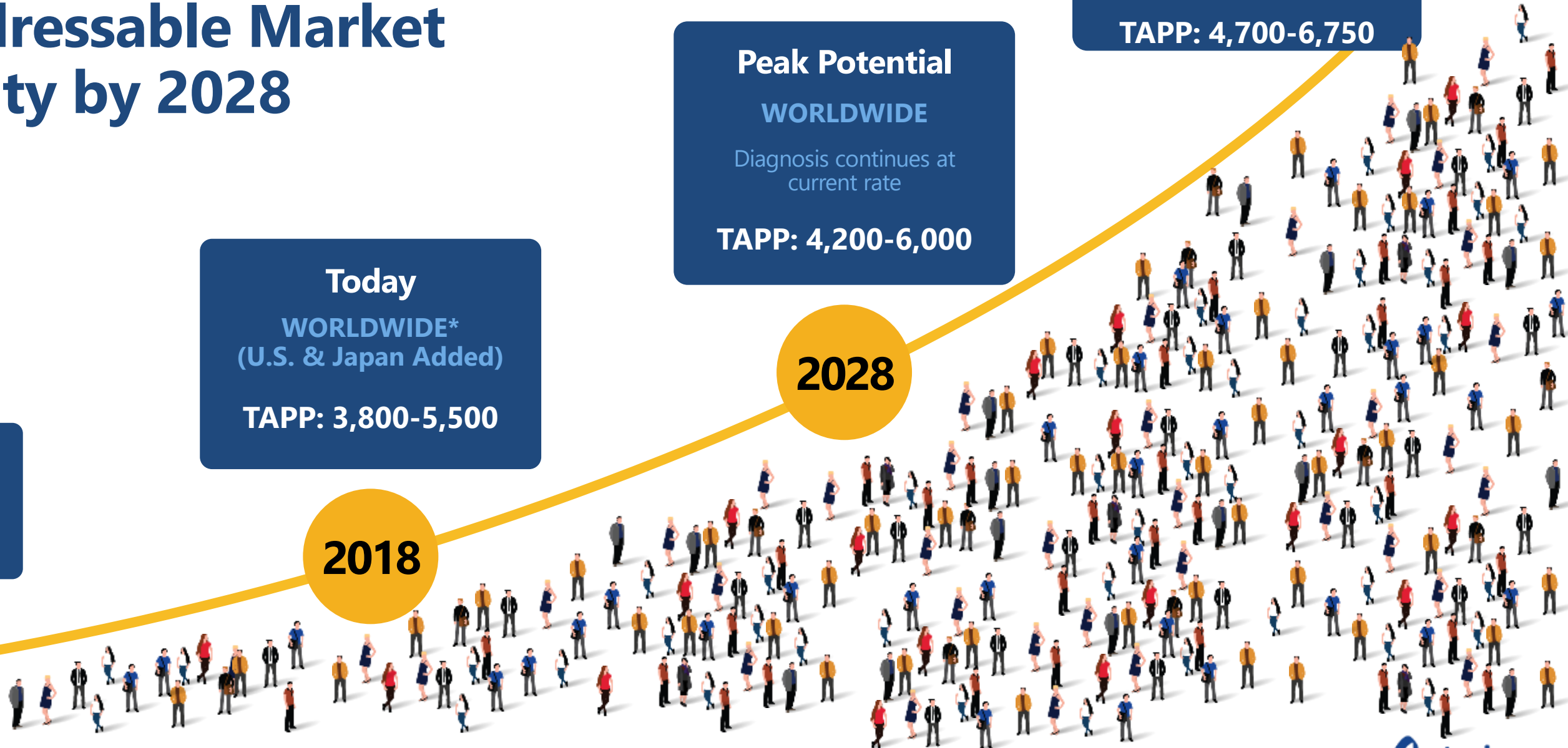
2018

2028

EU & ROW Only

TAPP: 2,000-3,000

2017



*WORLDWIDE includes total amenable patient population in all Fabry ERT commercial markets today Estimated effect of newborn screening on adult diagnostic rate.



AT-GAA Novel ERT for Pompe Disease

“We encourage and embrace constant innovation”

- Amicus Belief Statement

Pompe Disease Overview

Pompe Disease is a Fatal Neuromuscular and Motorneuron Disorder that Affects a Broad Range of People



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

Respiratory and cardiac failure are leading causes of morbidity and mortality

Age of onset ranges from infancy to adulthood

Deficiency of GAA leading to glycogen accumulation and cellular dysfunction

Symptoms include muscle weakness, respiratory failure, and cardiomyopathy

~\$900M+ Global Pompe ERT sales in FY18²

AT-GAA (ATB200 + Chaperone): A Differentiated Treatment Paradigm

ATB200

Investigational human recombinant GAA enzyme

IV infusion

Designed for enhanced targeting to muscle cells

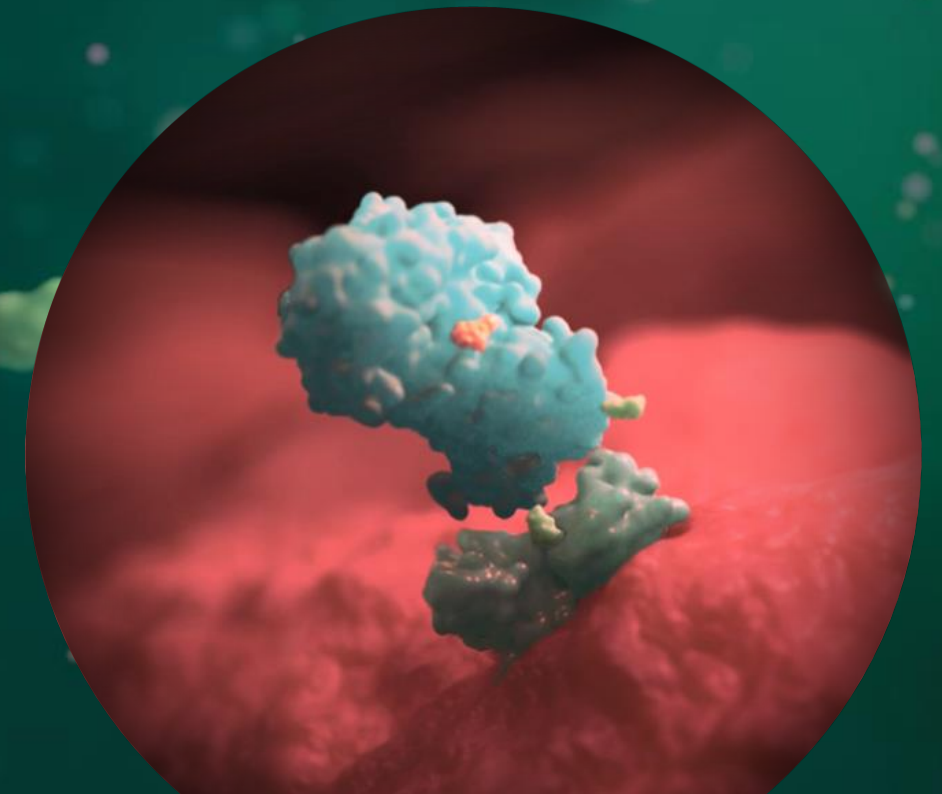
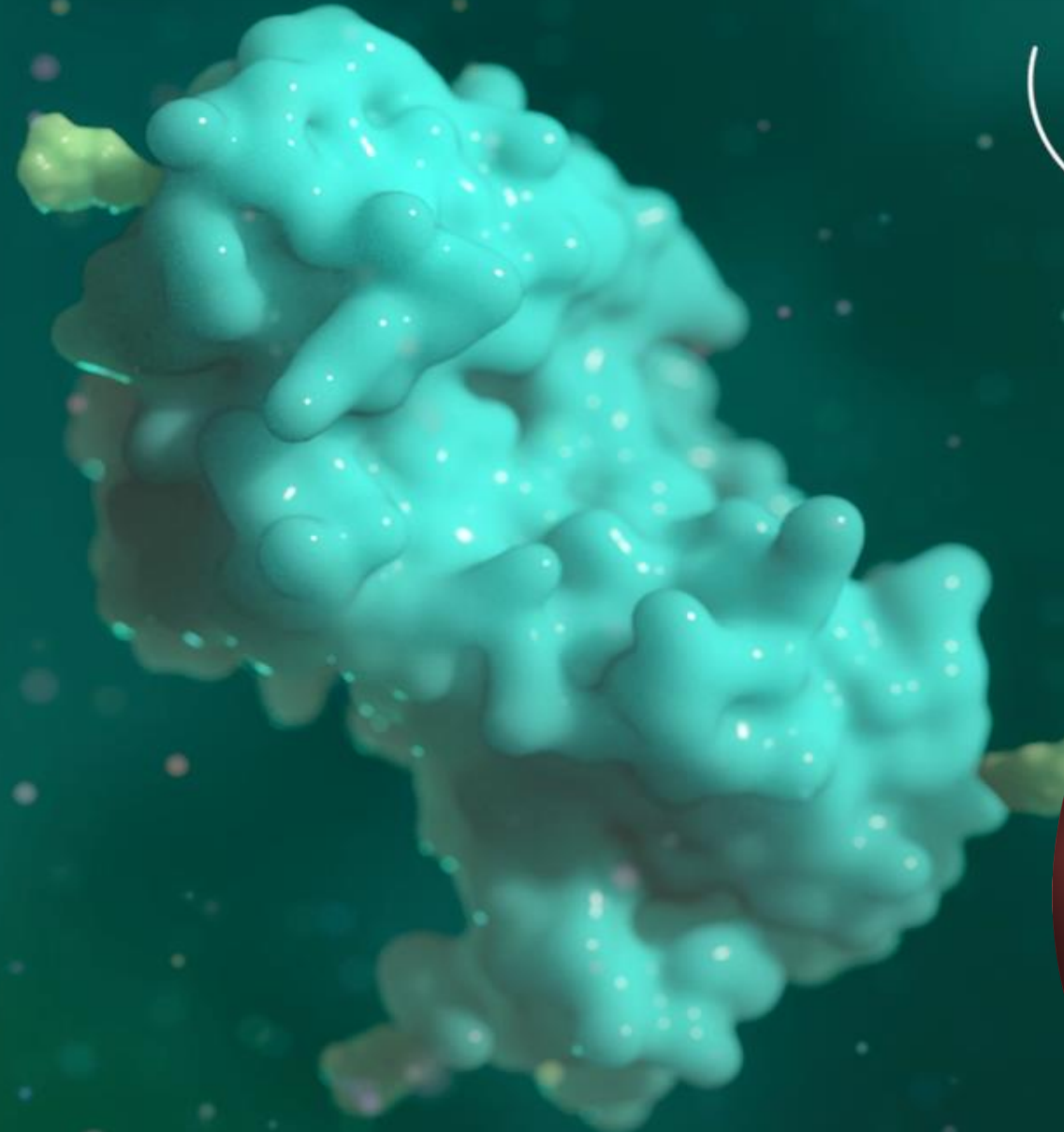


AT2221

Investigational pharmacological chaperone

Orally administered

May function to stabilize ATB200



AT-GAA

Pompe Patient Experience in Phase 1/2 Clinical Study (ATB200-02)

Consistent and Durable Responses Across Key Measures of Safety, Functional Outcomes and Biomarkers in both ERT-Switch and ERT-Naïve Pompe Patients out to Month 24

6-Minute Walk Test (m)

Cohort	Baseline (n=10)	Change at Month 24 ^{a,b} (n=8) Mean (SD)
Cohort 1 ERT-Switch Ambulatory	397.2 (96.8)	+53.6 (36.4)

Cohort	Baseline (n=5)	Change at Month 21 (n=5) Mean (SD)
Cohort 3 ERT-Naïve	399.5 (83.5)	+54.8 (34.7)

FVC (% Predicted)

Cohort	Baseline (n=9*)	Change at Month 24 ^{a,b,c} (n=7) Mean (SD)
Cohort 1 ERT-Switch Ambulatory*	52.6 (14.7)	-0.6 (2.8)

Cohort	Baseline (n=5)	Change at Month 21 (n=5) Mean (SD)
Cohort 3 ERT-Naïve	53.4 (20.3)	+6.1 (9.7)

^aOne patient in Cohort 1 discontinued from study (withdrew consent) before Month 24. ^bAt the time of this interim analysis, 1 patient in Cohort 1 had not reached Month 24. ^cBaseline FVC missing for 1 patient in Cohort 1

AT-GAA: Breakthrough Therapy Designation

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

BTM 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

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

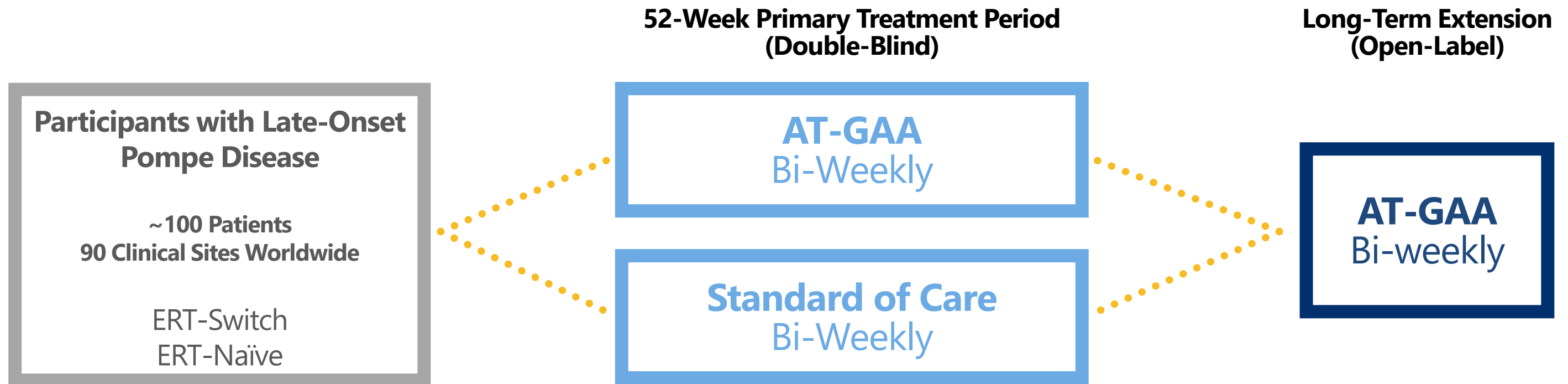
- Improvements in 6-minute walk distance
- Comparison to natural history of treated patients

BTM Features

- Intensive guidance on an efficient drug development program
- Organizational commitment involving senior managers
- All Fast Track program features
- Potential Rolling BLA
- Potential for Priority Review

PROPEL (ATB200-03) Study Design

PROPEL



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

Pompe Biologics Manufacturing

Successful Scale Up to 1000L GMP Clinical and Commercial Scale to Fully Supply Global Pompe Population

- **Key quality attributes maintained from 5L to 250L to 1000L**
- **Agreements on biocomparability with key regulators (FDA, BfARM)**
- **PROPEL participants now treated with drug manufactured at 1000L**
- **Current bioreactor capacity to supply global population**
- **WuXi partnership strengthened with 5-year supply agreement**
- **PPQ process underway**
- **Building commercial supply**

AT-GAA: 2019 Objectives

Advance AT-GAA for as Many Patients Worldwide as Quickly as Possible

- ✓ **Additional Phase 1/2 Data (up to 24 Months)**
- ✓ **Breakthrough Therapy Designation**
- ✓ **Full enrollment of Phase 1/2 Study (Cohorts 1-4)**
 - **Full enrollment of PROPEL study (n=100)**
 - **Present additional Phase 1/2 data (Cohort 4)**
 - **Report natural history study data**
 - **Initiate supportive pediatric study**
 - **Advance agreed upon CMC requirements to support BLA**



Gene Therapy Pipeline

“We have a duty to obsolete our own technologies”

- Amicus Belief Statement

Leading Lysosomal Disorder Gene Therapy Portfolio

Amicus at the Forefront of Human Genomic Medicine with Multiple Platforms and Robust R&D Engine for Future Growth



Gene Therapy Program Updates

Positive initial preclinical data for Pompe gene therapy

CLN3 Batten Disease Phase 1/2 Study Enrolling; Low Dose Cohort Complete (n=3)

Additional 2-Year CLN6 Batten Disease Phase 1/2 Data on Track for 3Q19

Additional preclinical studies in progress including CLN8, CLN1, Pompe and Fabry

Expanded Penn Collaboration Creates R&D Engine for Future Growth

Amicus Protein Engineering Expertise & Technologies for Gene Therapy

Collaboration to Enable Greater Protein Expression and Delivery at Lower Gene Therapy Doses

Increased Protein Expression

Novel untranslated sequences to avoid inhibition of initiation and drive efficient protein synthesis

Increased Protein Secretion

Effective signal sequences to increase protein expression & secretion

Improved Protein Targeting & Stabilization

Targeting moieties
Protein design



Expanded Amicus-Penn Collaboration Terms

World Class Industry-Academia Partnership in Rare Diseases

Exclusive Disease-Specific Worldwide Rights to Penn's Next Generation Gene Therapy Technologies from the Wilson Lab for the Majority of Lysosomal Disorders

Current Collaboration Extended to Include Three New Indications: Niemann-Pick Type C (NPC), Mucopolysaccharidosis Type IIIA (MPS IIIA), and Mucopolysaccharidosis Type IIIB (MPS IIIB)

New Research Programs also Encompass 12 Additional Rare Diseases, including Rett Syndrome, Angelman Syndrome, Myotonic Dystrophy and Select Other Muscular Dystrophies

Robust R&D Engine Created through Combination of Amicus Expertise in Protein Engineering with Penn's Vector Technology, Translational Science, Manufacturing and Immunology Capabilities

Amicus to Invest \$10M / Year for 5 Years for Research to Improve Safety, Efficacy and Manufacturability of Next Generation Vectors with Option to Extend

Amicus to Contribute Protein Engineering Platform Technology and Capabilities to Collaboration in Lieu of Any Additional Upfront Payments to Penn

Amicus to Assume Development Costs for NPC, Next Generation MPS IIIA, and MPS IIIB, to begin immediately*

*Sufficient cash into 2021 including additional spend required under the Amicus-Penn collaboration

Manufacturing: Three-Pronged Approach

Proven Amicus Track Record in Biologics Manufacturing Applies to Gene Therapy

Now

Clinical supply available for ongoing studies at NCH

Validated vector engineering and manufacturing at UPenn

Mid Term

NCH and UPenn to supply initial clinical studies

Finalizing partners for contract manufacturing

Long Term

Late-stage process development facility

Amicus manufacturing facility

Financial Summary and Guidance

Strong Balance Sheet with \$438M+ Cash at 3/31/19 - Cash Runway into 2021

FINANCIAL POSITION

March 31, 2019

Cash ~\$438M

Cash Runway¹ Into 2021

Debt² \$153.7M

CAPITALIZATION

Shares Outstanding³ ~253M

FINANCIAL GUIDANCE

FY19 Galafold Revenue Guidance \$160M-\$180M

¹Based on existing operating plan including proceeds from June 2019 equity offering to invest in manufacturing

²Includes \$3.7 million of convertible debt and \$150 million of straight debt

³Includes shares from June 2019 equity offering

Anticipated Milestones: 2019

Well-Positioned to Create Significant Value for Patients and Shareholders in 2019

Galafold: Fabry Disease

- FY19 revenue guidance \$160M-\$180M
- Growth in existing markets
- Expansion into new markets
- Diagnostic initiatives

AT-GAA: Pompe Disease

- ✓ Additional Phase 1/2 data (21 and 24 months)
- ✓ Breakthrough therapy designation (BTD) in LOPD
- ✓ Phase 1/2 study fully enrolled (Cohorts 1-4)
- PROPEL pivotal study enrollment (n=100)
- Additional Phase 1/2 data (Cohort 4)
- Natural history study data
- Additional supportive studies
- Advance CMC requirements to support BLA

Gene Therapy Programs

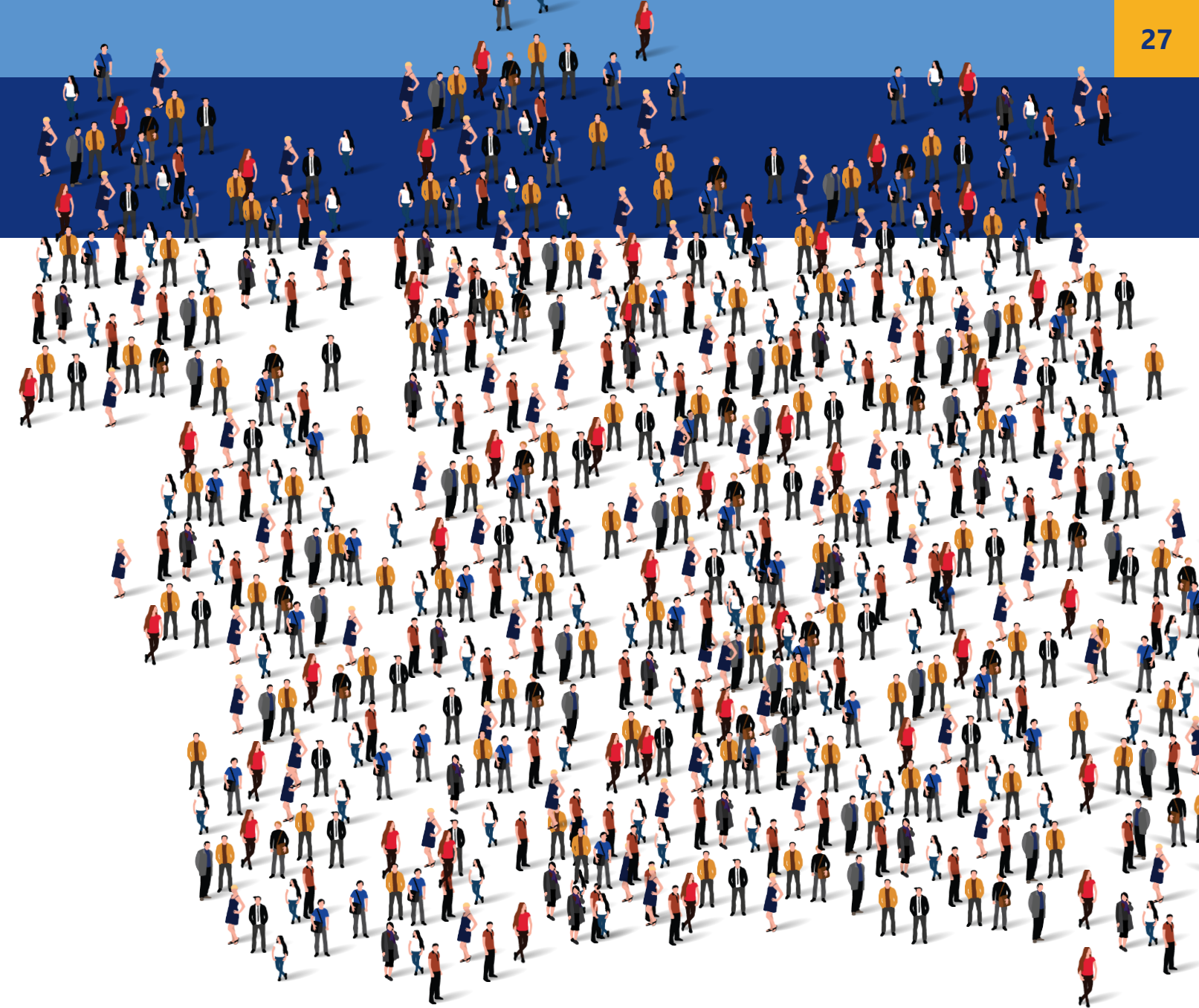
- Ongoing CLN3 Batten disease Phase 1/2 study enrollment
- Additional 2-year data from CLN6 Batten disease Phase 1/2 study
- Additional preclinical data including next-generation gene therapies for Fabry and Pompe
- Selection of Pompe AAV gene therapy clinical candidate to move into IND-enabling studies

A RARE VISION.

A Leader in the Human Genome Medicine Revolution



5,000 Patients* \$1B Global Sales



MORE Patients More Indications



*Clinical & commercial, all figures approximate ¹Preliminary unaudited

Thank You

"Our passion for making a difference unites us"

-Amicus Belief Statement

