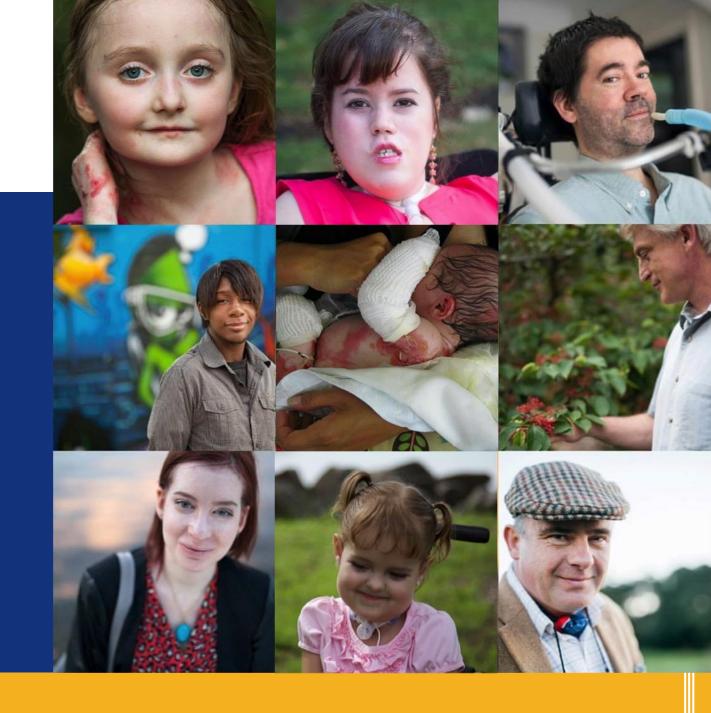


34th Annual J.P.
Morgan
Healthcare
Conference



John F. Crowley, Chairman and Chief Executive Officer January 12, 2016

Introduction

Safe Harbor

This presentation will contain, "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995 relating to preclinical and clinical development of Amicus' candidate drug products, the timing and reporting of results from preclinical studies and clinical trials evaluating Amicus' candidate drug products, financing plans, and the projected cash position for the Company. Words such as, but not limited to, "look forward to," "believe," "expect," "anticipate," "estimate," "intend," "potential," "plan," "targets," "likely," "may," "will," "would," "should" and "could," and similar expressions or words identify forward-looking statements. Such forward-looking statements are based upon current expectations that involve risks, changes in circumstances, assumptions and uncertainties. The inclusion of forward-looking statements should not be regarded as a representation by Amicus that any of its plans will be achieved. Any or all of the forward-looking statements in this press release may turn out to be wrong. They can be affected by inaccurate assumptions Amicus 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 timing of an NDA submission for migalastat monotherapy, and 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 the business of Amicus, including, without limitation: the potential that results of clinical or pre-clinical 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 may not grant or may delay approval for our product candidates; the potential that preclinical and clinical studies could be delayed because we identify serious side effects or other safety issues; the potential that we will need additional funding to complete all of our studies and, our dependence on third parties in the conduct of our clinical studies. 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 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, 2014 and Form 10-Q for the guarter ended June 30, 2015. 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 Amicus undertakes no obligation to revise or update this news release to reflect events or circumstances after the date hereof. This caution is made under the safe harbor provisions of Section 21E of the Private Securities Litigation Reform Act of 1995.

Amicus 2016 – Looking Back

Amicus Has Greatly Expanded Product Pipeline, Technologies and Geographies

2014

2013

2012

- Chaperone Technology for LSDs
- Small molecules
- US rights to migalastat

- Callidus acquisition
- Biologics
- Global rights to migalastat

- Positive Phase 3 data for migalastat
- Biologics scale up

International HQ

2015

- MAA Submission
- Scioderm acquisition
- Pompe ERT in clinic



Amicus 2016 – Continuing the Momentum

Significant Milestones in 2016

2016Anticipated Milestones

2015

2014

2013

2012

- Chaperone Technology for LSDs
- Small molecules
- US rights to migalastat

- Callidus acquisition
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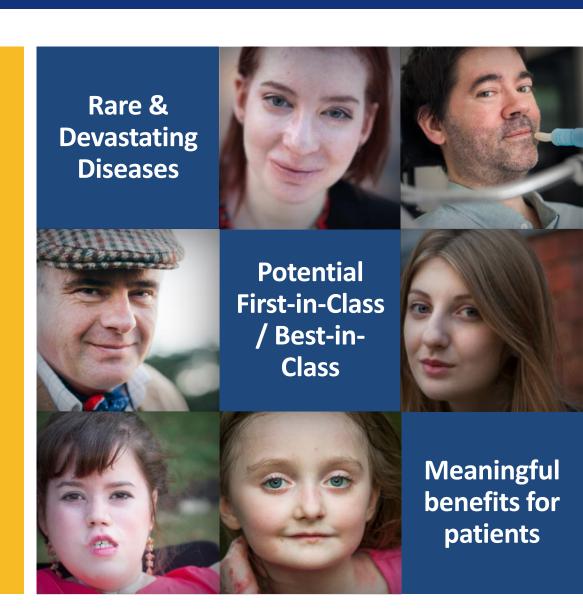
- International HQ
- MAA
 Submission
- Scioderm acquisition
- Pompe ERT in clinic

- CHMP opinion for migalastat for Fabry
- FDA regulatory clarity for migalastat
- EB Phase 3 data
- Pompe clinical data



Amicus Vision

Amicus Therapeutics is a global biotechnology company at the forefront of developing advanced therapies to treat a range of devastating rare and orphan diseases





Key Drivers of Value

3 Novel Product Candidates Each with \$500M to \$1B+ Market Potential

Fabry

- Migalastat
 Personalized Medicine
 (Small Molecule)
- MAA Submitted
- CHMP Opinion
 Anticipated Early 2016
- Prepared for EU Launch*

Epidermolysis Bullosa (EB)

- Phase 3 Novel Topical Cream (SD-101)
- U.S. Breakthrough Therapy Designation
- Rolling NDA
- Phase 3 Data
 Expected in 2H16

Pompe

- Novel ERT +
 Chaperone
 Treatment Paradigm
- BiologicsManufacturing
- Clinical Study
 Initiated with Data
 Anticipated in 2016

R&D Engine and Continued Business Development Activity



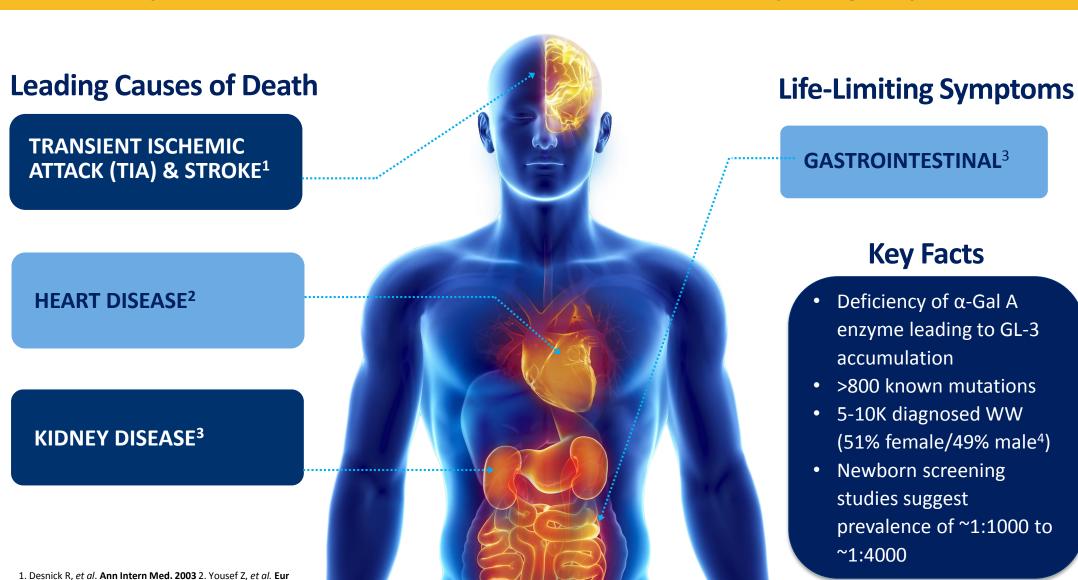


Migalastat
Personalized
Medicine for Fabry
Disease

Fabry Disease Overview

Heart J. 2013 3. Germain D. Orphanet J Rare Dis. 2010 4. Fabry

Fabry Disease is a Fatal Genetic Disorder that Affects Multiple Organ Systems





Summary of Clinical Data

Two Largest Phase 3 Studies Ever Completed in Fabry Disease



Reduction in Disease Substrate

IC GL-3 (Study 011⁴)
Plasma Lyso Gb-3 (Study 011^{3,4} and 012²)

Stability of Kidney Function

Estimated Glomerular Filtration Rate (eGFR) and measured GFR (Study 011¹ and Study 012^{1,2})

Reduction in Cardiac Mass

Left Ventricular Mass Index (LVMI) (Study 011³ and 012)

Improvement in GI Symptoms

Gastrointestinal Symptoms Rating Scale (GSRS) (Study 0114)

Low Rate of Fabry-Associated Clinical Events

Renal, Cardiac and Cerebro-Vascular Events (Study 012²)

- 1: Stabilization from baseline over 18 months with favorable comparison to natural history in literature
- 2: Comparable to ERT over 18 months
- 3: Improvement from baseline over 18+ months
- 4: Improvement versus placebo over 6 months in amenable patients

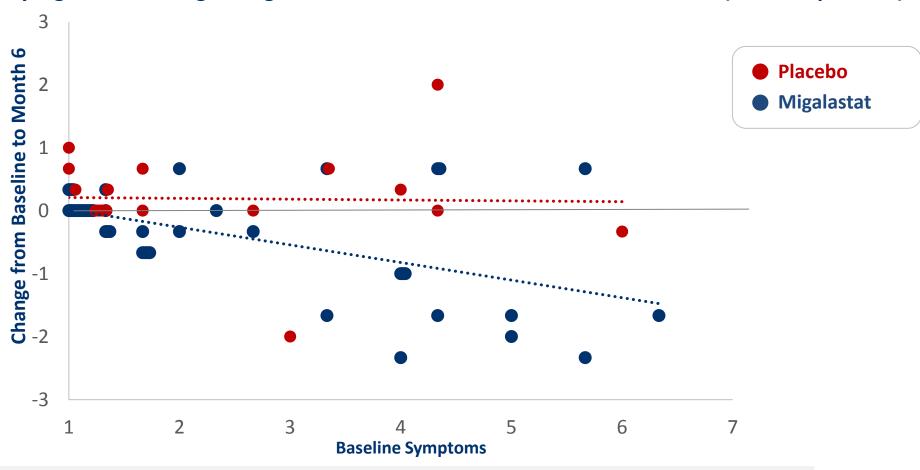


Additional Phase 3 Data on Diarrhea Symptoms



Migalastat has Generated Promising Data on Diarrhea Improvement, One of the Most Life-Limiting Symptoms of Fabry Disease

Statistically Significant Change - Migalastat vs. Placebo from Baseline to Month 6 (nominal p=0.026)

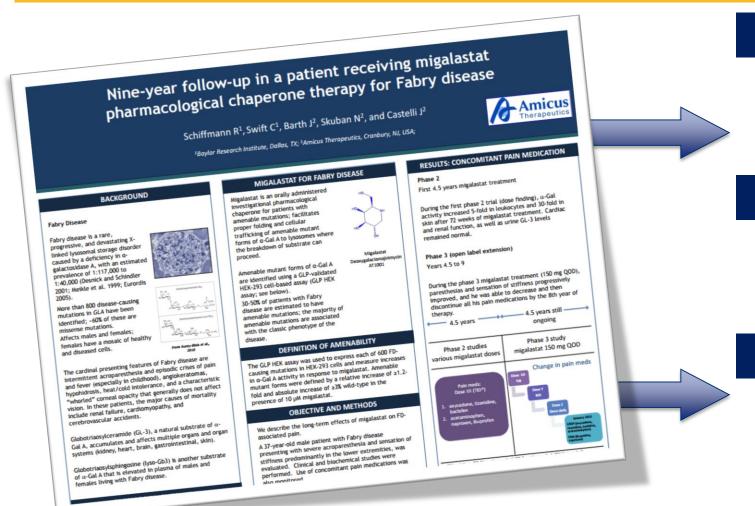


Note: Month 6 used as baseline for patients in placebo arm switching to migalastat; MID from Chan 2006 in kidney transplant. Minimal important difference (MID) for the GSRS diarrhea domain is 0.4 (Chan 2006, renal transplant patients)



Fabry Patient Perspective

Case Report from Long-Term Treatment with Migalastat Shows Improvement in Pain and Return to Everyday Activities¹



Patient Journey to Diagnosis

- Chronic pain
- Weakness and fatigue
- Pain medication

Phase 2 Study + OLE for 4.5 Years

- Enzyme activity increased
- Cardiac and renal functions remained normal

Phase 3 OLE for 4.5 Years (Still Ongoing)

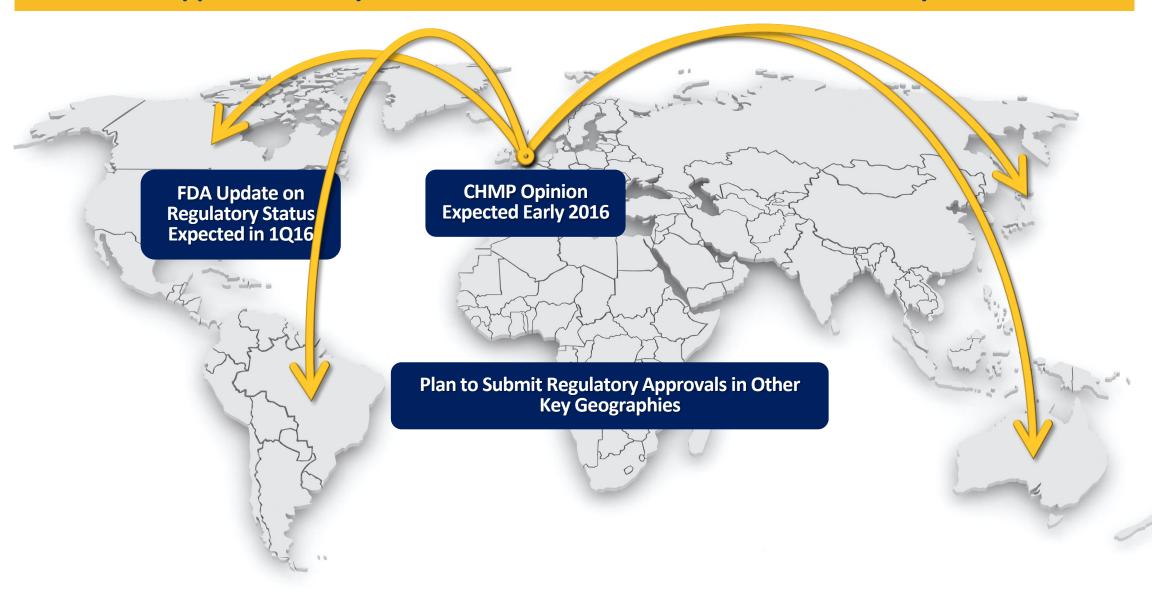
- Paresthesias and sensation of stiffness improved
- Feels well, goes to gym and works
- Discontinued pain medication

1. Schiffmann, et al. Nine-year follow-up in a patient receiving migalastat pharmacological chaperone therapy for Fabry disease. SSIEM 2015.



Global Regulatory Strategy

EU Approval Will Lay the Foundation to Address ~70% of Global Fabry Market

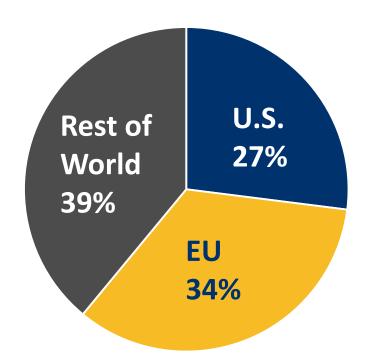




Fabry Market Today

Migalastat has Potential to Offer a Number of Important "Firsts" for Fabry Patients

\$1.1B in FY14 ERT Sales¹



- 40-50% of Diagnosed Patients Not on ERT Today
- Market Continues to Grow > 10% / Year
- ERT Infused Once Every 2 Weeks

- **First** new product in > 10 years
- **First** oral therapy
- **First** targeted therapy for amenable patients (30%-50% of population)

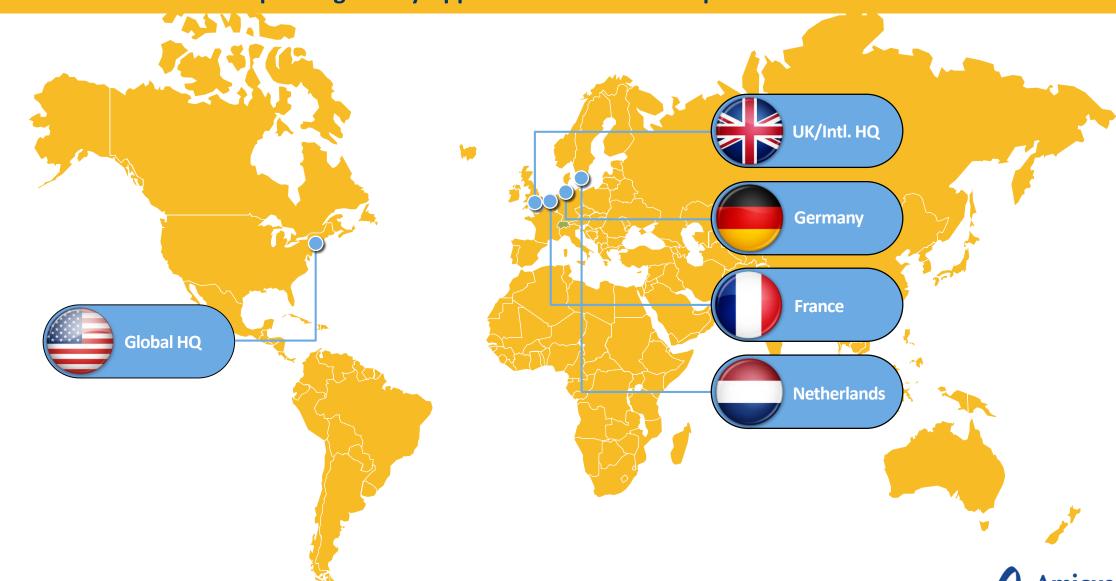






Global Infrastructure and International Team

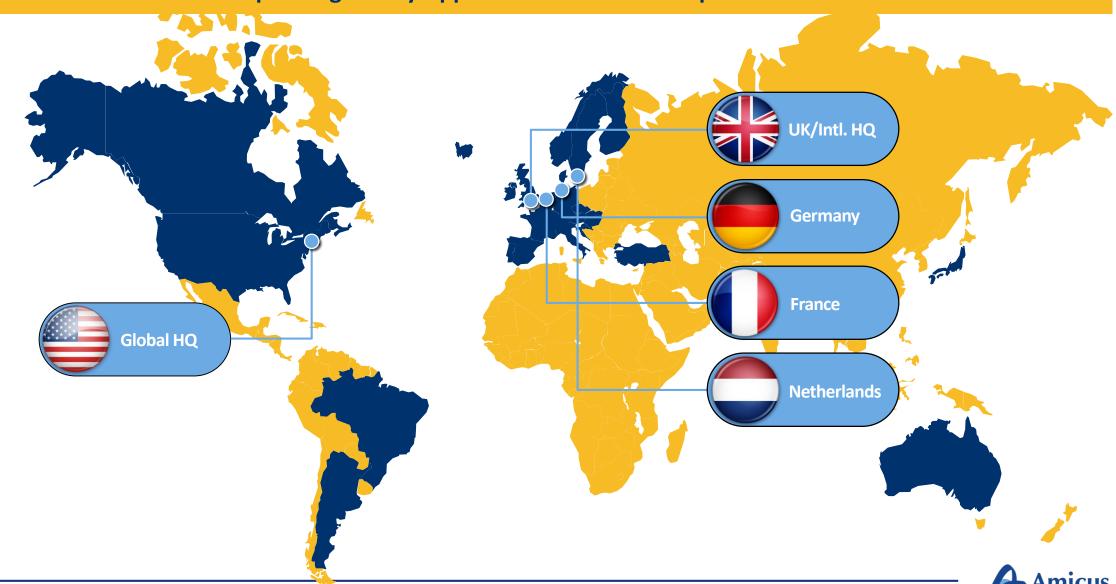
World-Class Global Commercial Team to Support Migalastat Launch
Upon Regulatory Approvals with Further Expansion in 2016





Global Infrastructure and International Team

World-Class Global Commercial Team to Support Migalastat Launch Upon Regulatory Approvals with Further Expansion in 2016





Commercial Launch Preparation Activities



Medical education and patient advocacy ongoing on behalf of Fabry patients



Experienced commercial leadership team with established international operations



Patient and physician mapping



Global value dossier complete and local submissions in development



International distribution system

Amicus is Preparing for Potential Launches in 2016







SD-101 for Epidermolysis Bullosa (EB)

Poised to deliver pivotal data for a devastating rare disease in 2016

EB Disease Overview

Rare, Devastating, Connective Tissue Disorder with No Approved Treatments



- Multiple genes cause disease which results in fragility of skin and can affect internal organs
- Diagnosed from infancy to adulthood
- Severe blistering, open wounds and scarring in response to minor friction to the skin
- Disfiguring, excruciatingly painful, and can be fatal
- Given the lack of approved treatment options, any reduction in disease symptoms would be considered meaningful
- 30,000 40,000 diagnosed patients in major global regions



Three Major EB Subtypes Represent ~99% of EB Population

Multiple Subtypes...Single Devastating and Fatal Genetic Disorder

Simplex



Dystrophic



~20% of EB Population

Junctional



~5% of EB Population

INCREASING SEVERITY

No Approved Therapies Today

SD-101 in Development for All 3 Major Subtypes

30,000 - 40,000+ Diagnosed in Major Markets



U.S. Breakthrough Therapy Designation

Positive Early Results from Phase 2a Study Led to Breakthrough Therapy Designation

- Open-label, 8 patient proof-of-concept study¹
- Ages 6 months 9 years
- All baseline target wounds ≥ 10 cm²
- SD-101 3% applied once daily for 3 months

Key Findings

87.5%

of patients experienced complete closure of target wounds within 1 month

57%

reduction in affected body surface area by month 3

Daily administration generally safe and well-tolerated

1-Year-Old Girl with EB Simplex







Phase 2b Design (Study 003)

3-Month Double-Blind Treatment Period¹

SD-101 6% (n=15)

SD-101 3% (n=16)

Placebo (n=17)

Primary Efficacy Endpoint: Target Wound Healing at Month 1

Baseline wound: Chronic (≥ 21 days), size 5-50 cm²

Secondary Efficacy Endpoints Include:

- Time to target wound closure
- Change in Body Surface Area (BSA) of lesional skin

Optional Extension (SD-004)

Open-Label Zorblisa (6%)

42/44 Patients entered extension study

\$400K FDA Grant for Extension Study

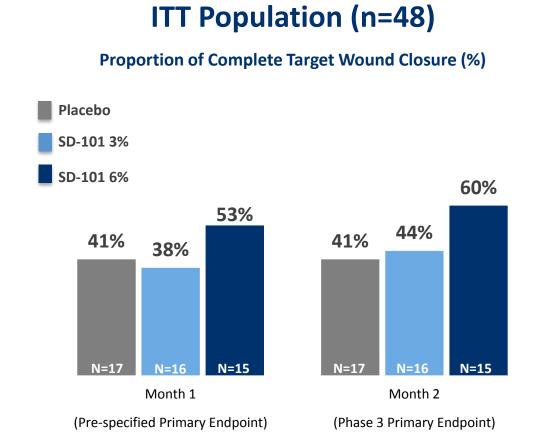
48 EB patients (age ≥ 6 months)¹ - 1:1:1 Randomization - Daily Topical Application

1. Assessments: 0, 14, 30, 60, 90 Days. 2. Initial Disease Severity: Mean target lesion size (cm²) 14.0 (range 5-39); mean lesional BSA: 19.4% (range 0.4-48%); mean wound age (days): 182 (range 21-1,639). EB Subtypes enrolled: Simplex (n=11), Recessive Dystrophic (n=29), and Junctional (n=8)



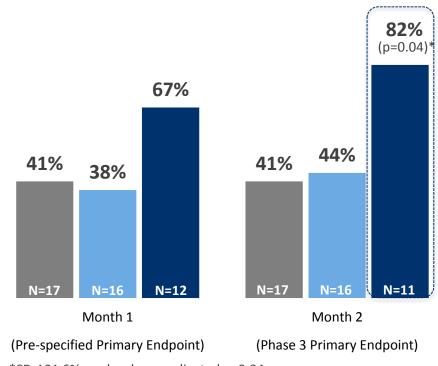
Phase 2b Results

SD-101 6% Demonstrated Higher Proportion of Complete Target Wound Closure



Evaluable Population¹ (n=45)





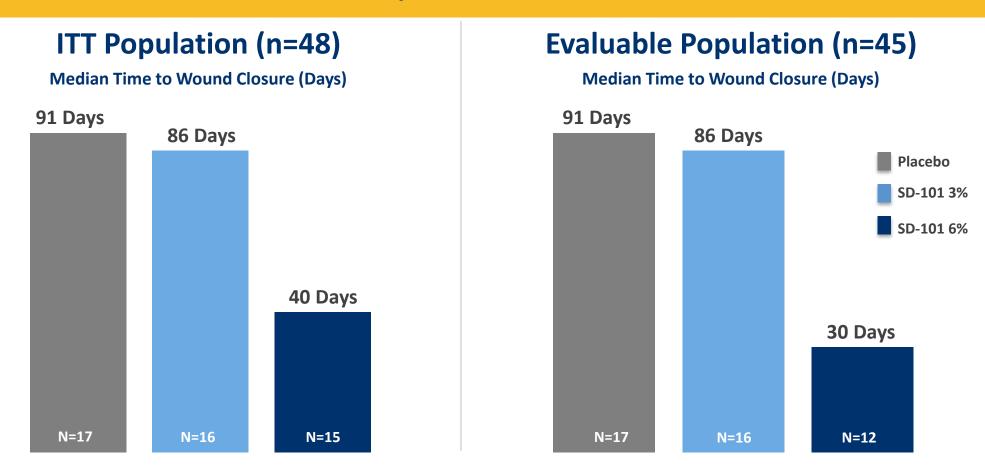
*SD-101 6% vs placebo, unadjusted p=0.04

1. Excluded from Evaluable population: 1 patient (due to lost to follow-up), 2 patients (did not have single identified and qualified target lesion). 1 additional patient lost to follow up after Month 1 visit and is excluded from target wound assessment at later time points



Phase 2b Results – Secondary Endpoint

SD-101 6% Showed Fastest Time to Wound Closure; SD-101 Generally Safe and Well-Tolerated

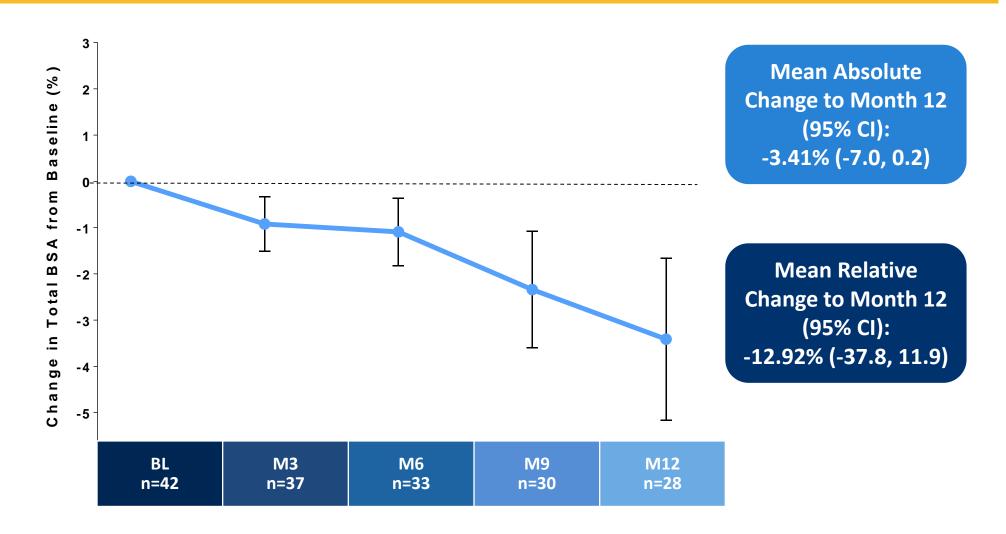


Adverse Events Similar Across Treatment Arms of Placebo, SD-101 3%, and SD-101 6%



Phase 2b Extension (Study 004) Results

Results on Total Body Surface Area (BSA) Affected by Wounds and Lesions



Note: Mean and SEM on change from baseline are plotted. Study 004 Total BSA baseline values are: N=42 Baseline population: 11.3. N=28 population used for Month 12 comparison: 10.9



Phase 3 Design (SD-005)

Phase 3 Initiated in 2Q15 and ~50% Enrolled Top-Line Data Expected 2H16

3-Month Double-Blind Treatment Period¹

SD-101 6%

~150 EB patients (age ≥ 1 month)

Placebo

Primary Endpoint: Target Wound Healing at Month 2

- US and EU regulatory authorities agreed on primary endpoint
- Baseline wound: Chronic (≥ 21 days), size ≥10 cm²

Secondary Endpoints Include

- Time to target wound closure
- Change in Body Surface Area (BSA) of lesions and blisters

Optional Extension (SD-006)

Open-Label Zorblisa (6%)

44/44 Patients Have Continued in Open-Label Extension (Jan. 8, 2015)

1. Assessments: 0, 14, 30, 60, 90 Days. 1:1 randomization, daily topical application



Phase 3 Design (SD-005)

Study Design Incorporates Key Learnings from Phase 2b Study

3-Wonth Double-Blind Treatment Period

SD-101 6%

Optimal concentration

 \sim 150 EB patients (age \geq 1 month)

Sample Size

(p ≤ 0.05 if treatment difference ~17% or greater)

Placebo

Optional Extension (SD-006)

Open-Label Zorblisa (6%)

44/44 Patients Have Continued in Open-Label Extension

(Jan. 8, 2015)

Primary Endpoint: Target Wound Healing at Month 2

- US and EU regulatory authorities agreed on primary endpoint
- Baseline wound: Chronic (≥ 21 days), size ≥10 cm²

Secondary Endpoints Include

- Time to target wound closure
- Change in Body Surface Area (BSA) of lesions and blisters

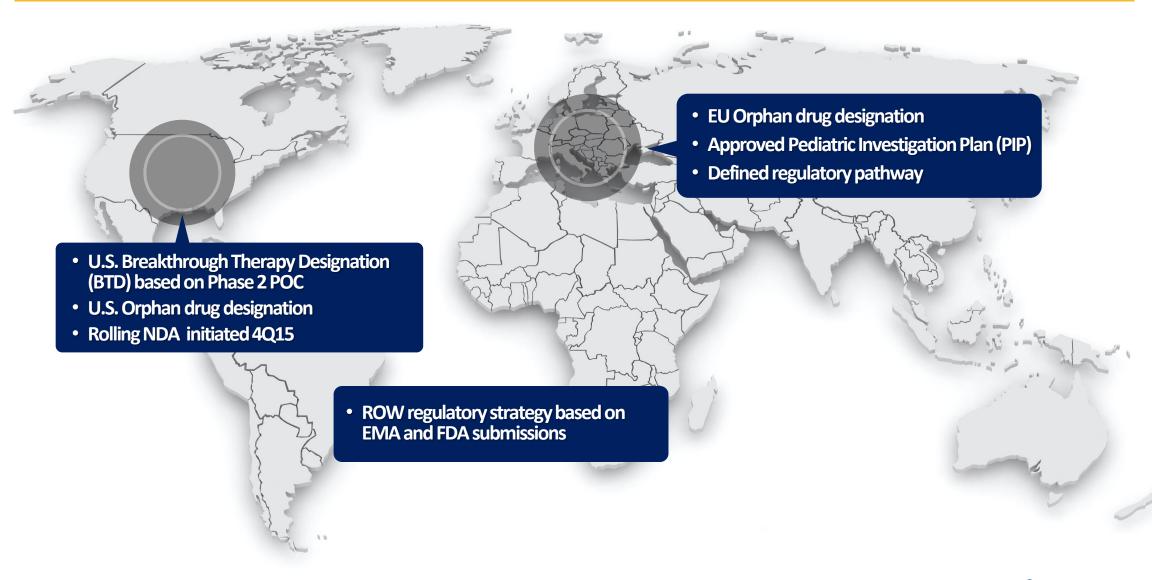
Increases Ability to Distinguish SD-101 vs. Placebo¹

1. Complete target wound closure in patients with target wounds ≥ 10 cm² at Month 2 in Phase 2b: SD-101 6% - 50% (n= 4) vs. Placebo - 12.5% (n=8)



Global Regulatory Strategy

Positive FDA and EMA Feedback on Phase 3 Study Design



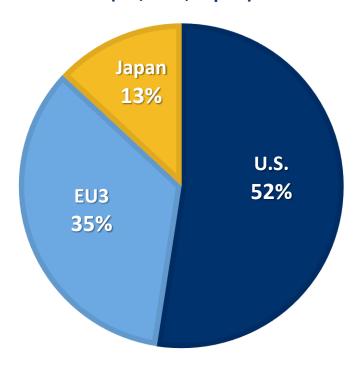


\$1B+ Commercial Potential

KOL Feedback Supports Profound Unmet Medical Need and Broad Usage in All EB Subtypes

Diagnosed EB Patients by Geography

(US, EU3, Japan)



Significant Unmet Clinical Need

- No approved treatments, opportunity for first-in-class
- Promising proof-of-concept in all EB subtypes

Strong Support Among Surveyed Stakeholders

- Physicians indicate usage in 100% patients
- Payers indicate support for broad reimbursement if approved

Large Commercial Opportunity

- 30,000 40,000 diagnosed patients in major markets
- KOLs expect diagnosis rates to increase





ATB200 Novel ERT for Pompe Disease

A Proprietary, Clinical-Stage Biologics Program

Pompe Disease Overview

Severe, Fatal Genetic Disorder with Significant Unmet Medical Need



- Deficiency of GAA leading to glycogen accumulation
- Age of onset ranges from infancy to adulthood
- Symptoms include muscle weakness, respiratory failure and cardiomyopathy
- Respiratory and cardiac failure are leading causes of morbidity and mortality
- 5,000 10,000 patients diagnosed WW¹
- ~\$700M+ Global Pompe ERT sales in FY14²



Pompe Patient Perspectives

Very Significant Unmet Need Despite Availability of Currently Marketed Therapy





Pompe ERT - 3 Challenges

Amicus Technology Platforms with Potential to Address Challenges with Existing Pompe ERT

Activity/ Stability Rapid denaturation of ERT in pH of blood¹

Protein Aggregation



Tolerability / Immunogenicity

Infusion-associated reactions in >50% of late-onset patients³

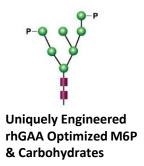
Antibody titers shown to affect treatment outcomes^{4,5}



Uptake/ Targeting

Low M6P receptor uptake into skeletal muscle²

Vast majority of rhGAA not delivered to lysosomes²



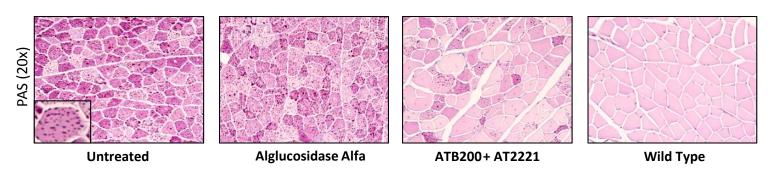
1Khanna et al., PLoS ONE, 2012; 2Zhu et al., Amer. Soc. Gene Therapy, 2009 June; 3Banati et al., Muscle Nerve, 2011 Dec.; 4Banugaria et al., Gen. Med., 2011 Aug.; 5de Vries et al., Mol Genet Metab., 2010 Dec.



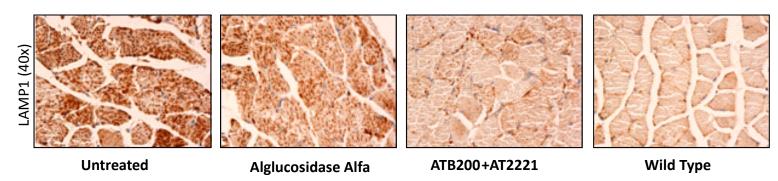
Preclinical Proof-of-Concept

ATB200 + Chaperone Results in Improved Substrate Clearance in Preclinical Models¹

PAS-glycogen staining in Quadriceps



LAMP1 Immunohistochemical staining in Soleus



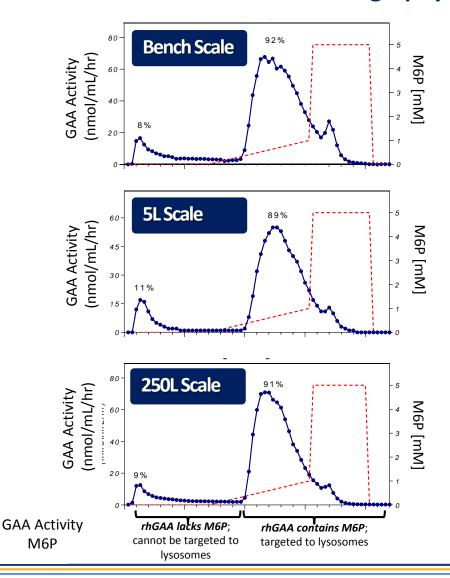
1. Following 2 doses of 20mg/kg alglucosidase alfa or ATB200 + AT2221 in Gaa KO mice, skeletal muscles evaluated for glycogen clearance and proliferated lysosomes. Treatment with alglucosidase alfa modestly reduced glycogen or proliferated lysosomes while ATB200, co-administered with AT2221 significantly decreased the muscle pathology associated with Pompe disease



Biologics Manufacturing Capabilities

Optimized Glycosylation and Key Quality Attributes Maintained Through Scale Up

CI-MPR Receptor Chromatography



Lyophilized Vial of ATB200





Clinical Study in Pompe Patients

Study Design Supported by US and EU Regulators

Stage 1
(Single Ascending Dose)

Single Dose ATB200 Every Other Week

ATB200 ATB200 ATB200 5 mg/kg 10 mg/kg 20 mg/kg

Stage 2 (Multiple Ascending Dose)

Fixed Dose ATB200 + Chaperone (AT2221)

Every Other Week

ATB200 20mg/kg
+ AT2221
(Low Dose)
3 doses

ATB200 20mg/kg
+ AT2221
(High Dose)
3 doses

Long-Term Open Label Extension

Fixed Dose
ATB200 +
Chaperone
(AT2221)
Every Other
Week

Assessments:

- Plasma PK (Enzyme Activity & Total protein)
- Safety/Tolerability
- Antibodies

- Infusion-Associated Reactions
- Pharmacodynamics (OLE)





Financial Summary

Strong Balance Sheet to Invest in Rare Disease Pipeline

Strong Balance Sheet

Cash Position Provides Runway Under Current Operating Plan into 1H17

Financial Position	December 31, 2015
Current Cash:	\$214M
Current Debt	\$50M
FY16 Net Cash Spend Guidance:	\$135M-\$155M
Cash Runway	Mid-2017
Capitalization	
Shares Outstanding	125,027,034



Key Drivers of Value

3 Novel Product Candidates Each with \$500M to \$1B+ Market Potential

Fabry

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 (Small Molecule)
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Pompe

- Novel ERT +
 Chaperone
 Treatment Paradigm
- BiologicsManufacturing
- Clinical Study
 Initiated with Data
 Anticipated in 2016

R&D Engine and Continued Business Development Activity



Thank You

