



# Third Quarter 2016 Financial Results

November 2, 2016



# Agenda

## Welcome

- Christine Regan Lindenboom  
Vice President, Investor Relations & Corporate Communications

## Q3 2016 Overview

- John Maraganore, Ph.D.  
Chief Executive Officer

## Anylam Clinical Pipeline

- Akshay Vaishnaw, M.D., Ph.D.  
Executive Vice President of R&D, Chief Medical Officer

## Financial Results

- Michael Mason  
Vice President, Finance and Treasurer

## 2016 Goal Update

- Barry Greene  
President

## Q&A Session

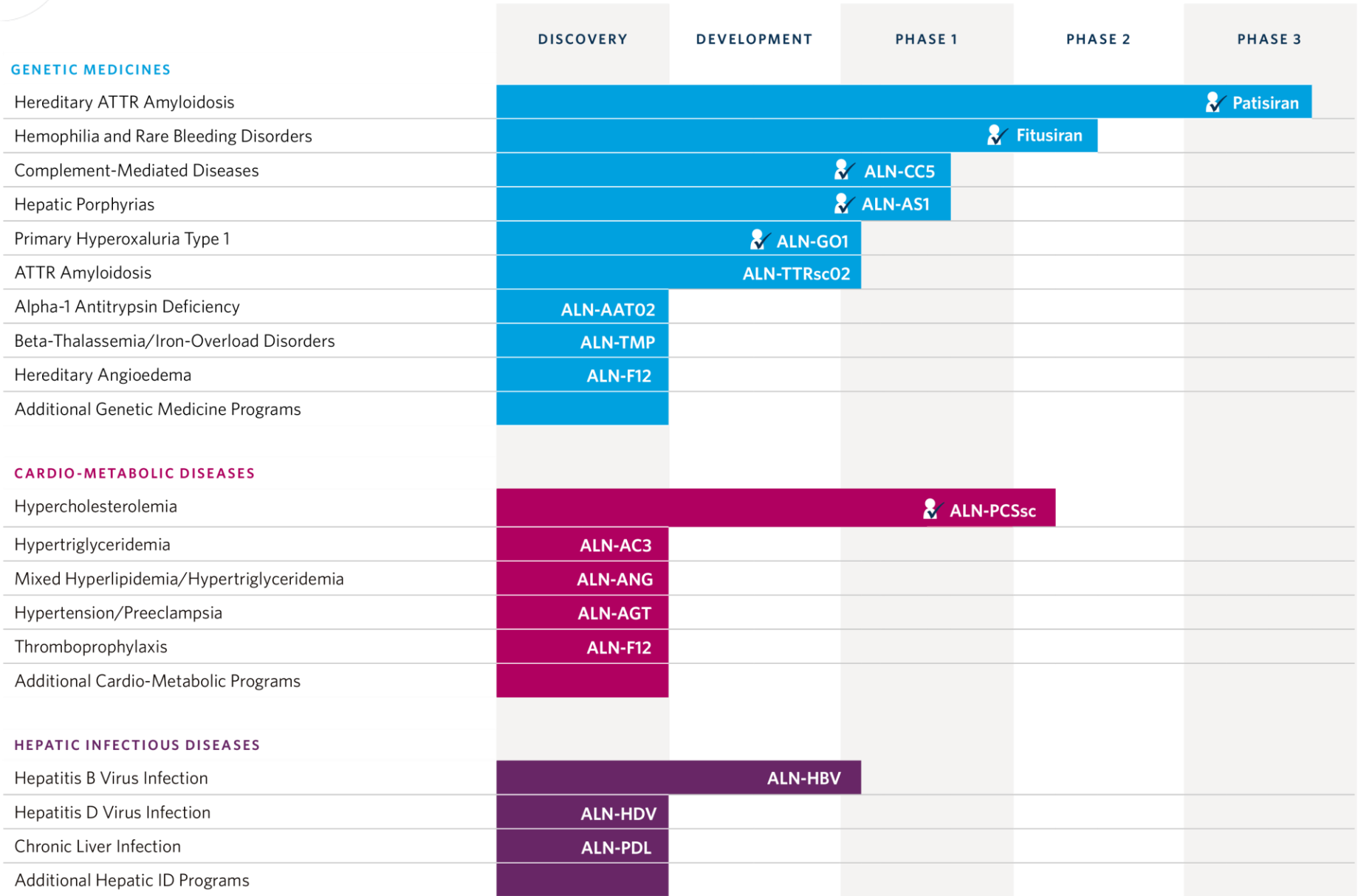
# Anylam Forward Looking Statements

This presentation contains forward-looking statements, within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. There are a number of important factors that could cause actual results to differ materially from the results anticipated by these forward-looking statements. These important factors include our ability to discover and develop novel drug candidates and delivery approaches and successfully demonstrate the efficacy and safety of our product candidates; pre-clinical and clinical results for our product candidates; actions or advice of regulatory agencies; delays, interruptions or failures in the manufacture and supply of our product candidates; our ability to obtain, maintain and protect intellectual property, enforce our intellectual property rights and defend our patent portfolio; our ability to obtain and maintain regulatory approval, pricing and reimbursement for products; our progress in establishing a commercial and ex-United States infrastructure; competition from others using similar technology and developing products for similar uses; our ability to manage our growth and operating expenses, obtain additional funding to support our business activities and establish and maintain business alliances; the outcome of litigation; and the risk of government investigations; as well as those risks more fully discussed in our most recent quarterly report on Form 10-Q under the caption “Risk Factors.” If one or more of these factors materialize, or if any underlying assumptions prove incorrect, our actual results, performance or achievements may vary materially from any future results, performance or achievements expressed or implied by these forward-looking statements. All forward-looking statements speak only as of the date of this presentation and, except as required by law, we undertake no obligation to update such statements.

**John Maraganore, Ph.D.**  
**Chief Executive Officer**

# **Q3 2016 Overview**

# Anlylam Development Pipeline



**Akshay Vaishnaw, M.D., Ph.D.,  
Executive Vice President of R&D, Chief Medical Officer**

# **Anylam Clinical Pipeline**

# Decision to Discontinue Revusiran Development

## Description of Safety Findings as of October 4, 2016

### Following ISA in July 2016, reports of new onset or worsening peripheral neuropathy in some revusiran Phase 2 OLE patients

- Diligence with independent neurology experts led to conclusion that events likely consistent with disease
- Data reviewed with ENDEAVOUR DMC; no changes to conduct of study recommended
- Regulatory authorities and study investigators notified

### Subsequently, additional reports of peripheral neuropathy and elevated blood lactate levels in Phase 2 OLE

### At Company request, ENDEAVOUR DMC met October 4, 2016 to review Phase 3 data in light of new safety information and to assess overall benefit-risk profile of revusiran

- DMC reported no conclusive evidence of drug-related peripheral neuropathy signal
- However, recommended suspension of dosing based on lack of favorable benefit-risk
- Company subsequently reviewed unblinded ENDEAVOUR data which revealed imbalance of mortality in revusiran arm vs. placebo

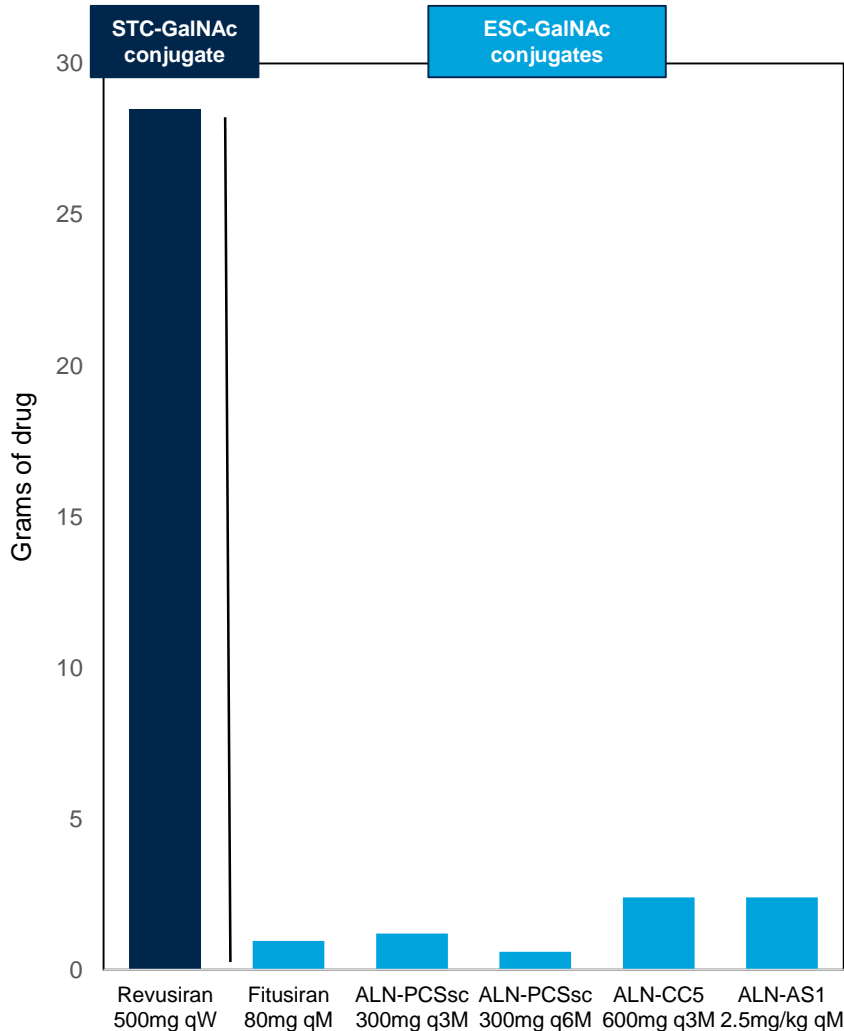
### Decision to discontinue all ongoing studies and further development of revusiran

### Conducting comprehensive evaluation of revusiran data - further update on progress of evaluation expected at December 16th R&D Day

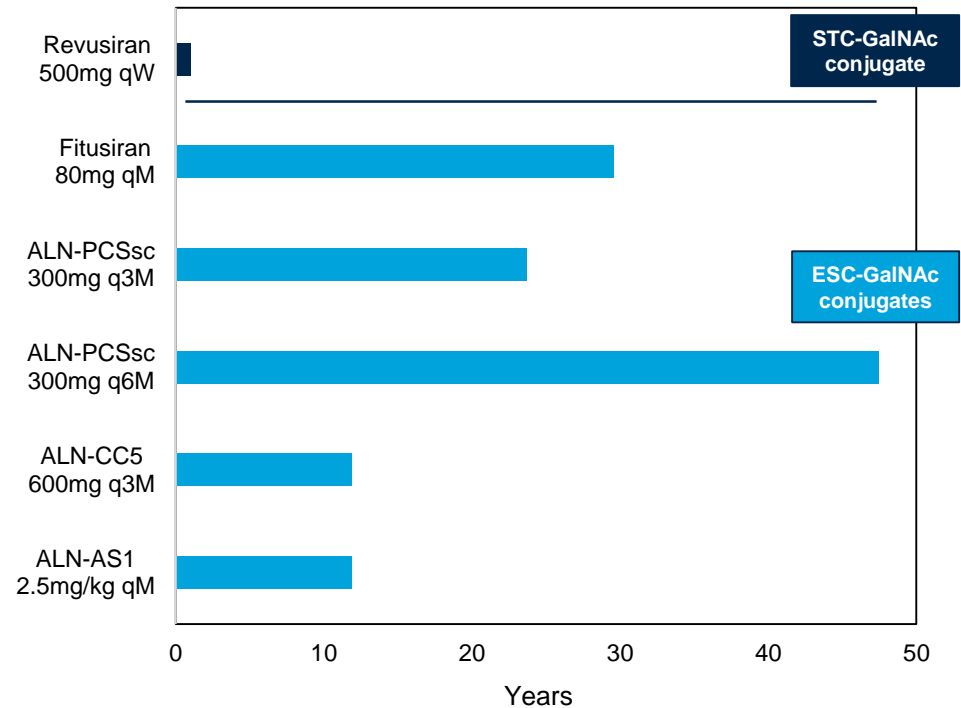
No evidence of drug-related peripheral neuropathy or cardiovascular mortality signal based on current assessment of safety data from >800 subjects/patients dosed across 9 other clinical programs, with exposure of up to 34 months (as of Sep 30, 2016)

# Exposure Levels with Revusiran Significantly Higher than other GalNAc Conjugate Programs

Annualized Exposure Levels



Exposure Year Equivalents Relative to Revusiran





# Patisiran Interim Phase 2 OLE Study Results\*

## Ongoing Study in hATTR-PN Patients

Mean max  
**93%**  
TTR KD  
clamped thru  
**24** months

Mean  
**-6.7**  
point change in  
mNIS+7 at **24**  
months

**>70%**  
patients show  
improvement in  
**mNIS+7**  
scores

**TTR KD**  
correlated with  
improvement in  
**mNIS+7**  
scores

Evidence for Potential Halting or  
Improvement of Neuropathy Progression

### **Safety:** Generally well tolerated out to 25 months

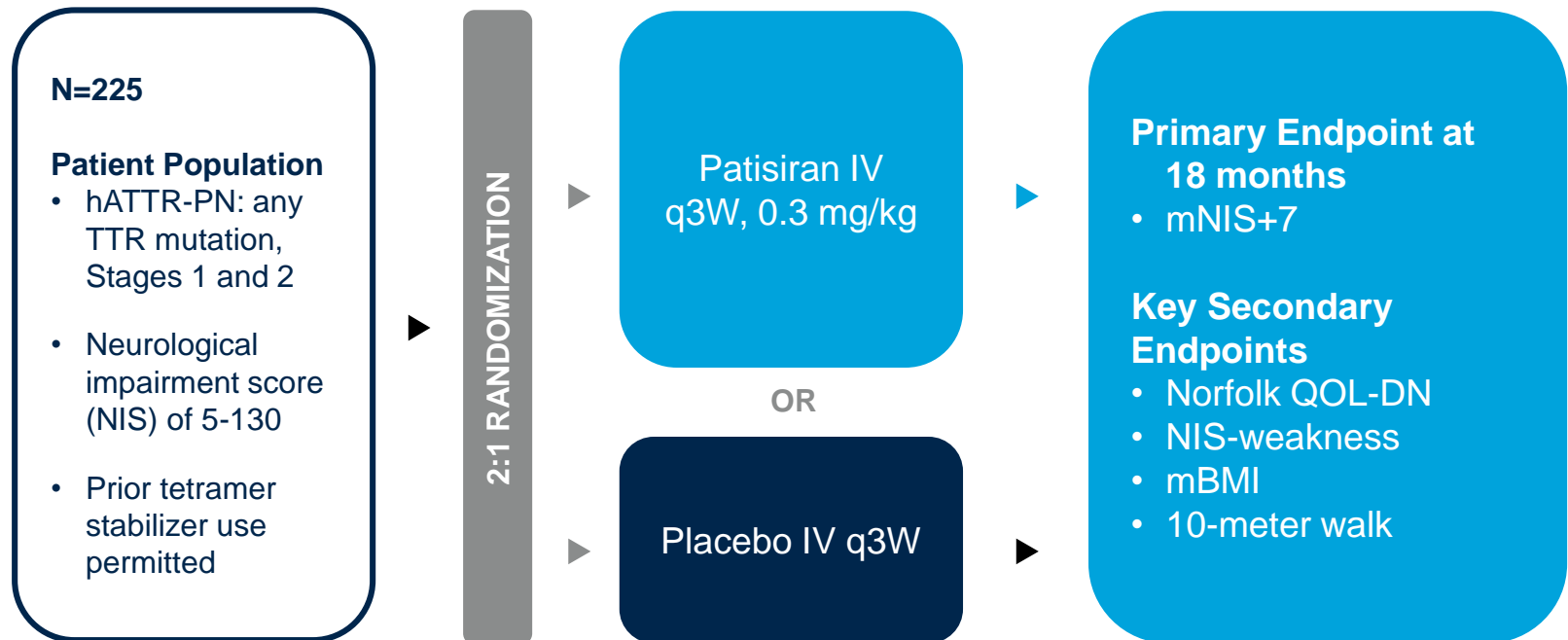
- 9 non-drug related SAEs in 6 patients
- Majority of AEs mild to moderate, including mild flushing (22.2%) and mild infusion-related reactions (18.5%)
- No significant lab findings, including platelets, and no drug-related discontinuations

### **PLANNED NEXT STEPS**

**36-month  
Phase 2 OLE data  
in 2017**

# APOLLO Phase 3 Study Design

## Enrollment Complete

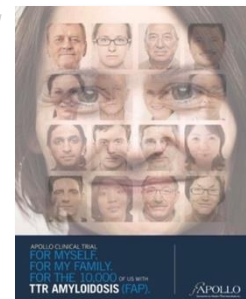


*All completers eligible for patisiran treatment on Phase 3 OLE study (APOLLO-OLE)*

**Enrollment completed; mid-2017 data readout, supporting 2017 NDA and MAA if positive**

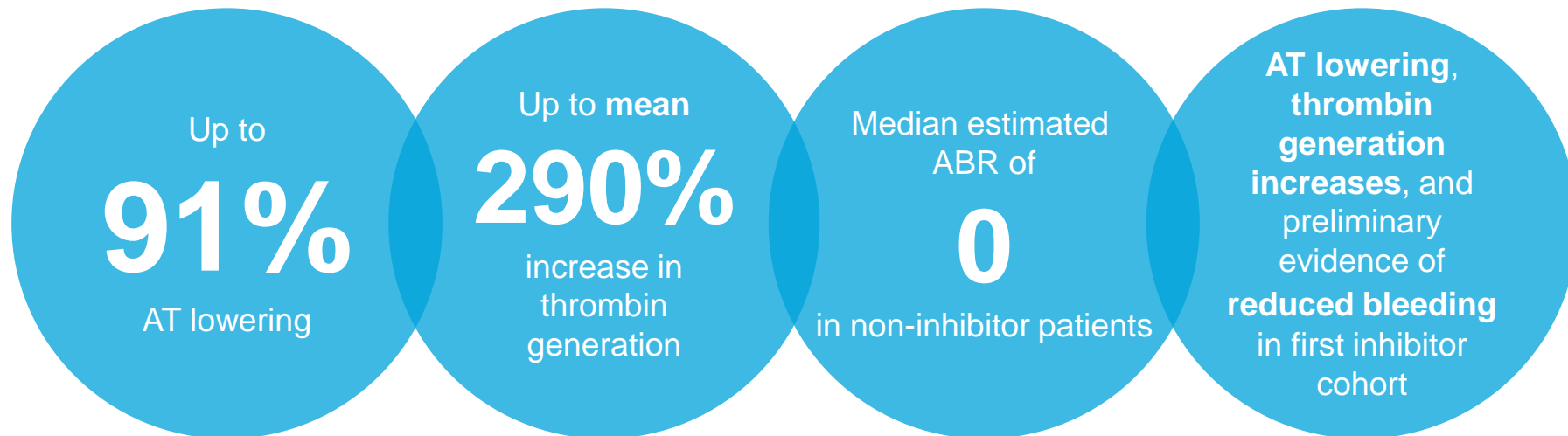
### Statistical Considerations

- Placebo-estimated mNIS+7 progression rate of 17.8 points/year derived from natural history study of 283 hATTR-PN patients
- 90% Power to detect as little as 37.5% difference in  $\Delta$ mNIS+7 between treatment groups with 2-sided  $\alpha=0.05$ 
  - Based on original target enrollment of 200 patients



# Fitusiran Interim Phase 1 Study Results\*

Ongoing Study in Hemophilia A & B Patients, Including Inhibitors



## DURABILITY



Monthly SC fixed  
dose regimen

Evidence for Potential Restoration of  
Hemostasis in Severe Hemophilia A and B

## Safety: Generally well tolerated

- No SAEs; majority of AEs mild or moderate
  - Mild ISRs in 11 (35%) patients
- One discontinuation due to AE considered severe, possibly drug-related
  - Non-cardiac chest pain; associated transient increases in LFTs, D-dimer, CRP
  - Extensive evaluation unremarkable; VTE excluded
  - Event resolved with symptomatic management; antacids, analgesics
- No thromboembolic events; no lab evidence for pathologic clot formation

## PLANNED NEXT STEPS

Additional data

at ASH in December 2016

Start Phase 3 studies

in early 2017

# ALN-AS1 Interim Phase 1 Study Results\*

Ongoing Study in Asymptomatic & Symptomatic Porphyria Patients



## DURABILITY



**Monthly** and possibly **quarterly** SC dose regimen

Potent and Durable Lowering of Toxic Heme Synthesis Intermediates that Mediate Attacks

## Safety: Generally well tolerated

- 3 SAEs all deemed unlikely related to study drug, and no discontinuations
- Majority of AEs reported were mild-moderate in severity
- No clinically significant laboratory abnormalities related to study drug

## PLANNED NEXT STEPS

Recurrent attack patient data  
at **ASH** in **December 2016**

**Start Phase 3**  
in **2017**

# ALN-GO1 Initial Phase 1/2 Part A Results

## Ongoing Study in Primary Hyperoxaluria Type 1 (PH1)

### DESCRIPTION

Genetic mutations lead to excessive oxalate production, resulting in recurrent kidney stones and extensive renal damage

### DRUG MECHANISM

ALN-GO1 targets glycolate oxidase (GO), an enzyme upstream from the genetic defect, for potential lowering of oxalate levels

### DURABILITY



Monthly and possibly quarterly SC dose regimen

**Safety:** Generally well tolerated in healthy adult volunteers

- No SAEs or discontinuations due to AEs
- All AEs mild or moderate, with exception of one subject with transient, asymptomatic CPK elevation deemed unrelated to study drug

### PATIENT POPULATION\*

~5,000 worldwide

Primarily affects children

Sustained through 85 days at highest dose

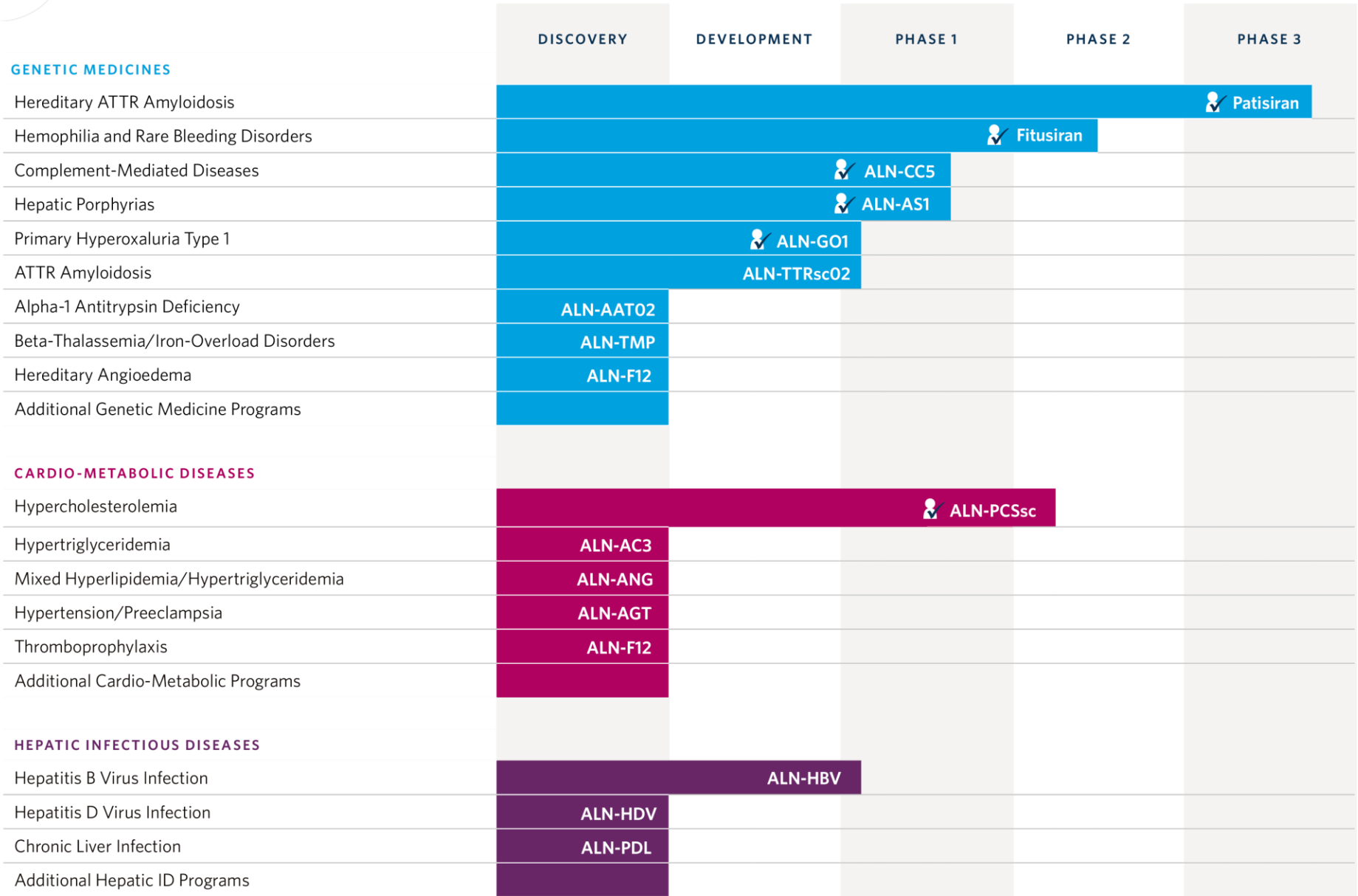
Up to 8-fold

increase in plasma glycolate in healthy volunteers

### PLANNED NEXT STEPS

Oxalate lowering data in PH1 patients in 2017

# Anylam Development Pipeline





**Michael Mason**

**Vice President, Finance and Treasurer**

# **Q3 2016 Financial Results**

# Financial Summary and Guidance

## 2016 Q3 Financial Results

- Cash ~\$1.2B
  - Includes \$150.0 million in restricted investments
- GAAP Revenues \$13.7M
- Total GAAP Operating Expenses \$120.3M
  - Research and Development Expense \$97.9M
  - General and Administrative Expense \$22.4M
- GAAP Net Loss of \$104.1M
- Shares Outstanding ~85.8M

## 2016 Guidance

- Year-end cash >\$1.0B
  - Includes \$150.0 million of restricted investments received from credit agreements related to build out of new drug substance manufacturing facility



**Barry Greene**  
**President**

# **2016 Goals Update**

# Select Scientific and Clinical Meetings

Late 2016

	Conference	Date (Location)	Expected Presentation(s)
<b>ALN-PCSsc</b>	American Heart Association (AHA) Scientific Sessions	November 15 (New Orleans)	ALN-PCSsc ORION-1 Phase 2
<b>Fitusiran ALN-CC5 ALN-AS1</b>	American Society of Hematology (ASH) Annual Meeting	December 3-6 (San Diego)	Fitusiran Phase 1, Parts C and D (highest and fixed dose cohorts, including inhibitor patients); Initial Fitusiran Phase 1/2 OLE; ALN-CC5 Phase 1/2 (PNH patients); ALN-AS1 Phase 1, Initial Part C data (recurrent attack patients)
<b>ALN-TTRsc02 Corporate</b>	R&D Day 2016	December 16 (New York)	ALN-TTRsc02 Phase 1



Q3 2016 Financial Results

# Q&A Session



**Thank you**

