



# Second Quarter 2017 Financial Results

August 8, 2017



# Agios Conference Call Participants

## Prepared Remarks

### Introduction

- RENEE LECK, Sr. Manager, Investor Relations

### Business Highlights & 2017 Key Milestones

- DAVID SCHENKEIN, M.D., Chief Executive Officer

### Clinical Development Progress

- CHRIS BOWDEN, M.D., Chief Medical Officer

### Second Quarter 2017 Financial Results

- ANDREW HIRSCH, Chief Financial Officer



# Forward Looking Statements

This presentation and various remarks we make during this presentation contain forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995. Such forward-looking statements include those regarding Agios' plans, strategies and expectations for its and its collaborator's preclinical, clinical and commercial advancement of its drug development programs including IDHIFA® (enasidenib), ivosidenib, AG-881, AG-348 and AG-270; the potential benefits of Agios' product candidates; its key milestones for 2017; its plans regarding future data presentations; its financial guidance regarding the period in which it will have capital available to fund its operations; and the potential benefit of its strategic plans and focus. The words "anticipate," "expect," "intend," "potential," "milestone," "goal," "will," "on track," "upcoming," and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. Such statements are subject to numerous important factors, risks and uncertainties that may cause actual events or results to differ materially from Agios' current expectations and beliefs. For example, there can be no guarantee that any product candidate Agios or its collaborator, Celgene, is developing will successfully commence or complete necessary preclinical and clinical development phases, or that development of any of Agios' product candidates will successfully continue. There can be no guarantee that any positive developments in Agios' business will result in stock price appreciation. Management's expectations and, therefore, any forward-looking statements in this presentation and various remarks we make during this presentation could also be affected by risks and uncertainties relating to a number of other important factors, including: Agios' results of clinical trials and preclinical studies, including subsequent analysis of existing data and new data received from ongoing and future studies; the content and timing of decisions made by the U.S. FDA and other regulatory authorities, investigational review boards at clinical trial sites and publication review bodies; Agios' ability to obtain and maintain requisite regulatory approvals and to enroll patients in its planned clinical trials; unplanned cash requirements and expenditures; competitive factors; Agios' ability to obtain, maintain and enforce patent and other intellectual property protection for any product candidates it is developing; Agios' ability to maintain key collaborations, such as its agreements with Celgene; and general economic and market conditions. These and other risks are described in greater detail under the caption "Risk Factors" included in Agios' public filings with the Securities and Exchange Commission. Any forward-looking statements contained in this presentation and various remarks we make during this presentation speak only as of the date hereof, and Agios expressly disclaims any obligation to update any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law.



# Business Highlights & 2017 Key Milestones

*David Schenkein, M.D., Chief Executive Officer*

Now Approved in IDH2m Relapsed/Refractory AML



# Key Priorities & Expected Milestones

## IDH

- ✓ Secure approval and co-commercialize IDHIFA<sup>®</sup> (enasidenib) for R/R AML in the U.S.
- ✓ Initiate Phase 3 AGILE trial combining ivosidenib & VIDAZA<sup>®</sup> in frontline AML 1H 2017
- ✓ Complete enrollment of Phase 1 dose-escalation for AG-881 in glioma in 1H 2017
- Submit NDA for wholly owned ivosidenib in R/R AML by YE 2017

## PKR

- ✓ Finalize pivotal trial design for wholly owned AG-348 in PK deficiency in 3Q 2017
- Continue to demonstrate leadership in PK deficiency
- Initiate pivotal program for AG-348 in PK deficiency in 1H 2018

## RESEARCH

- Advance next wave of research in three areas of expertise: cancer metabolism, rare genetic diseases and metabolic immuno-oncology
- Submit IND application for AG-270, development candidate targeting MTAP-deleted tumors, by YE 2017



# Clinical Development Progress

*Chris Bowden, M.D., Chief Medical Officer*

# AG-348 Pivotal Program Design

Design Element	Non-Transfusion Dependent	Regularly Transfused
<b>Patient Population</b>	<ul style="list-style-type: none"> <li>• Non-transfusion dependent adults</li> <li>• Baseline hemoglobin of <math>\leq 10.0</math> grams per deciliter</li> <li>• Excludes patients with two non-missense mutations and those homozygous for R479H</li> </ul>	<ul style="list-style-type: none"> <li>• Regularly transfused adults</li> <li>• Excludes patients with two non-missense mutations and those homozygous for R479H</li> </ul>
<b>Size</b>	<ul style="list-style-type: none"> <li>• 80-100 patients</li> </ul>	<ul style="list-style-type: none"> <li>• ~20 patients</li> </ul>
<b>Dose</b>	<ul style="list-style-type: none"> <li>• Dose titration up to optimal hemoglobin response (5, 20 or 50 mg twice daily)</li> </ul>	<ul style="list-style-type: none"> <li>• Dose titration up to optimal hemoglobin response (5, 20 or 50 mg twice daily)</li> </ul>
<b>Endpoints</b>	<ul style="list-style-type: none"> <li>• Hemoglobin response</li> <li>• Patient-reported outcomes (PRO)</li> </ul>	<ul style="list-style-type: none"> <li>• Reduction in transfusion burden</li> <li>• Patient-reported outcomes (PRO)</li> </ul>
<b>Control</b>	<ul style="list-style-type: none"> <li>• Placebo controlled</li> </ul>	<ul style="list-style-type: none"> <li>• Reduction of transfusion burden compared to patients' baseline</li> </ul>

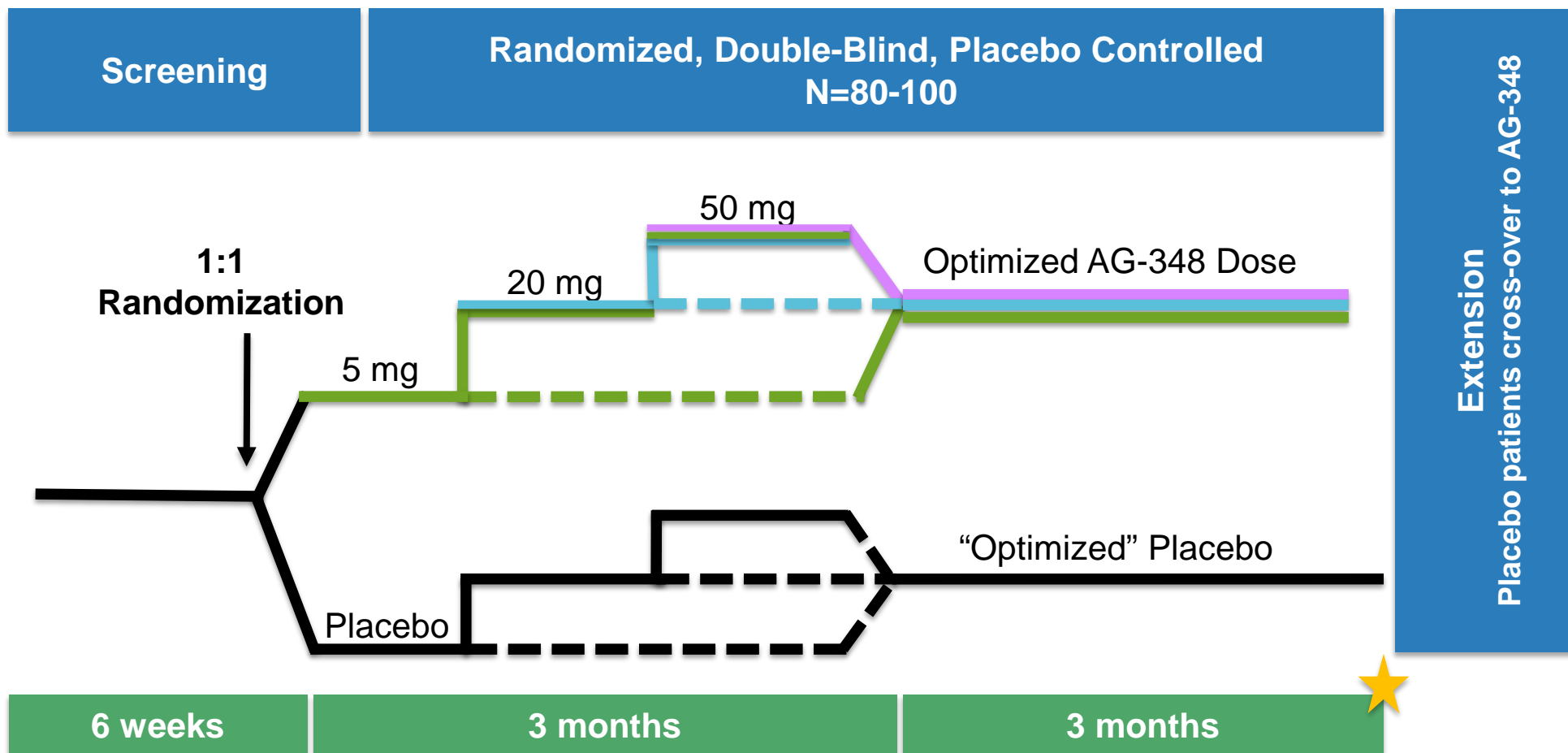


On track to initiate registrational program in 1H 2018





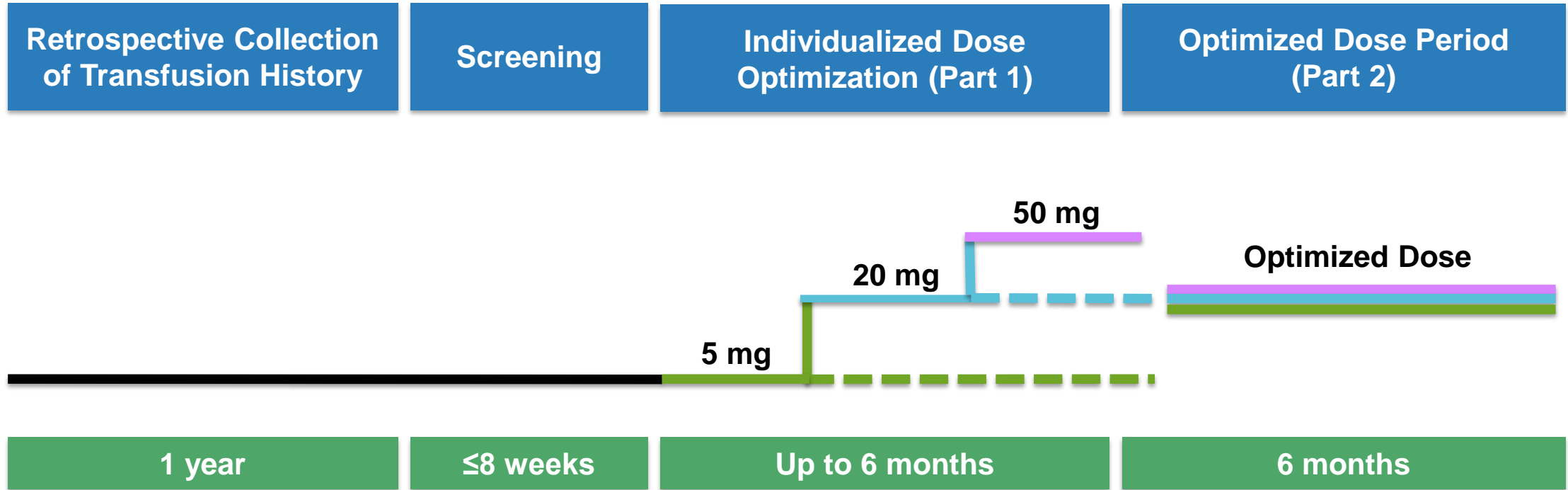
# Trial Design for Non-Transfusion Dependent Patients



**Primary Efficacy Endpoint:** Proportion of patients who achieve at least a 1.5 g/dL increase in hemoglobin sustained over multiple visits



# Trial Design for Regularly Transfused Patients



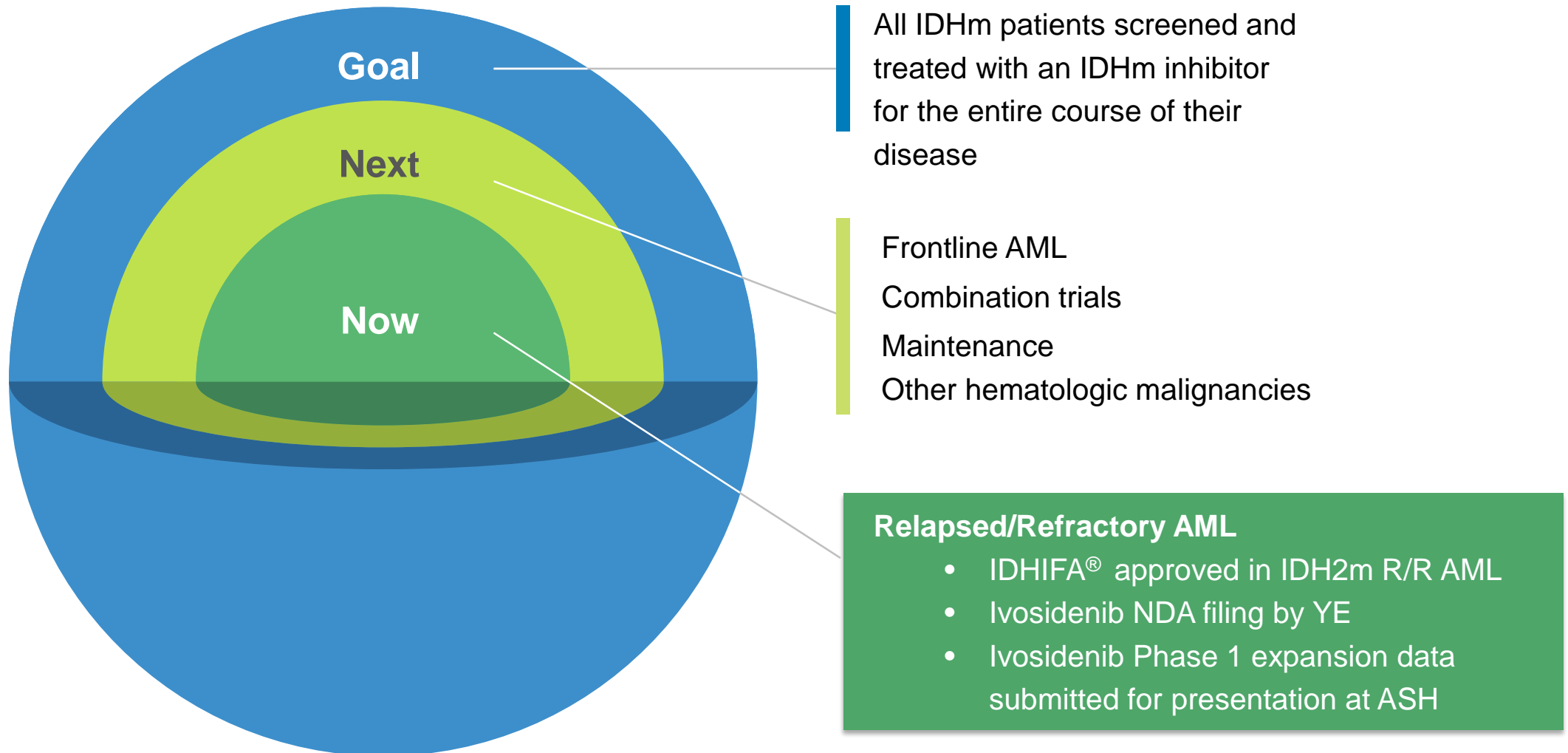
Approximately 20 regularly transfused patients who have required a minimum of 6 transfusions over the year preceding enrollment

**Primary Endpoint:** Reduction in transfusion burden over a 6 month period compared to the patient's transfusion history



# What's Possible for IDHm Patients

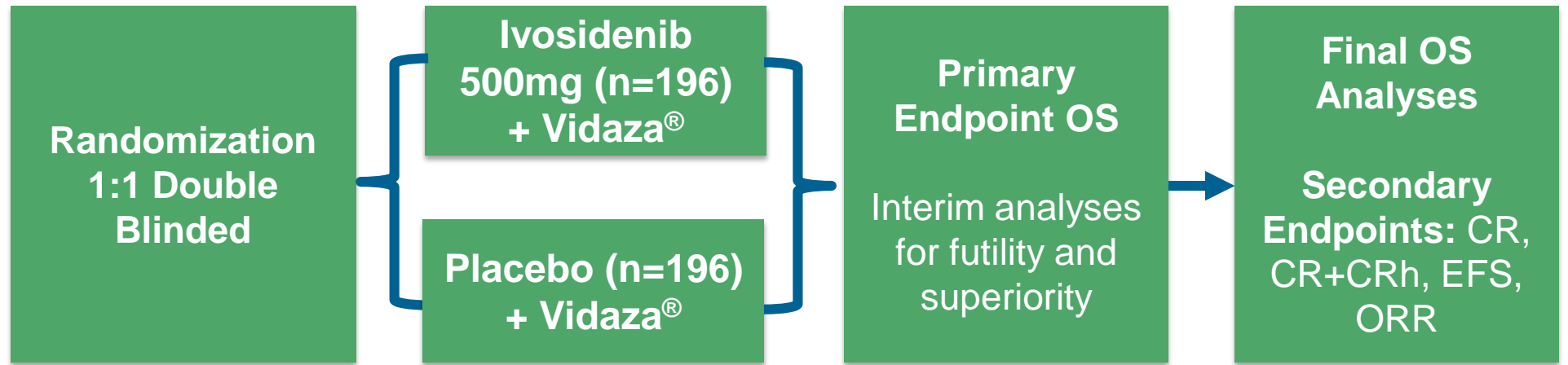
## A Roadmap for Speed and Breadth



# Advancing Ivosidenib into Frontline Setting



**Global Phase 3  
Frontline  
IC-Ineligible  
IDH1m AML**



**Initiated in June 2017**

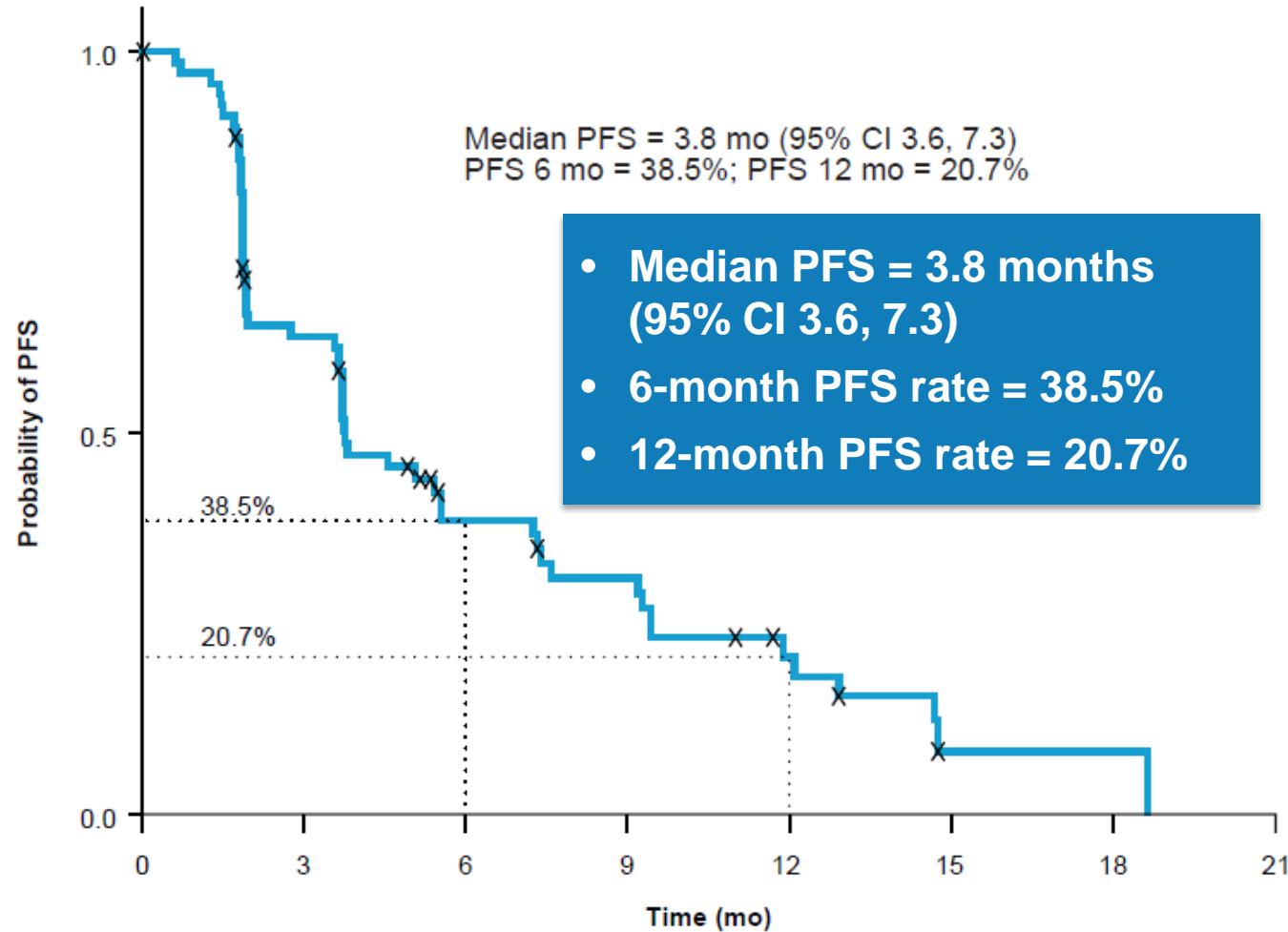
IC = intensive chemotherapy  
Vidaza® is a registered trademark of Celgene Corporation

**Data from Phase 1 combo trial of IDHIFA® or Ivosidenib with 7+3 submitted for presentation at ASH**

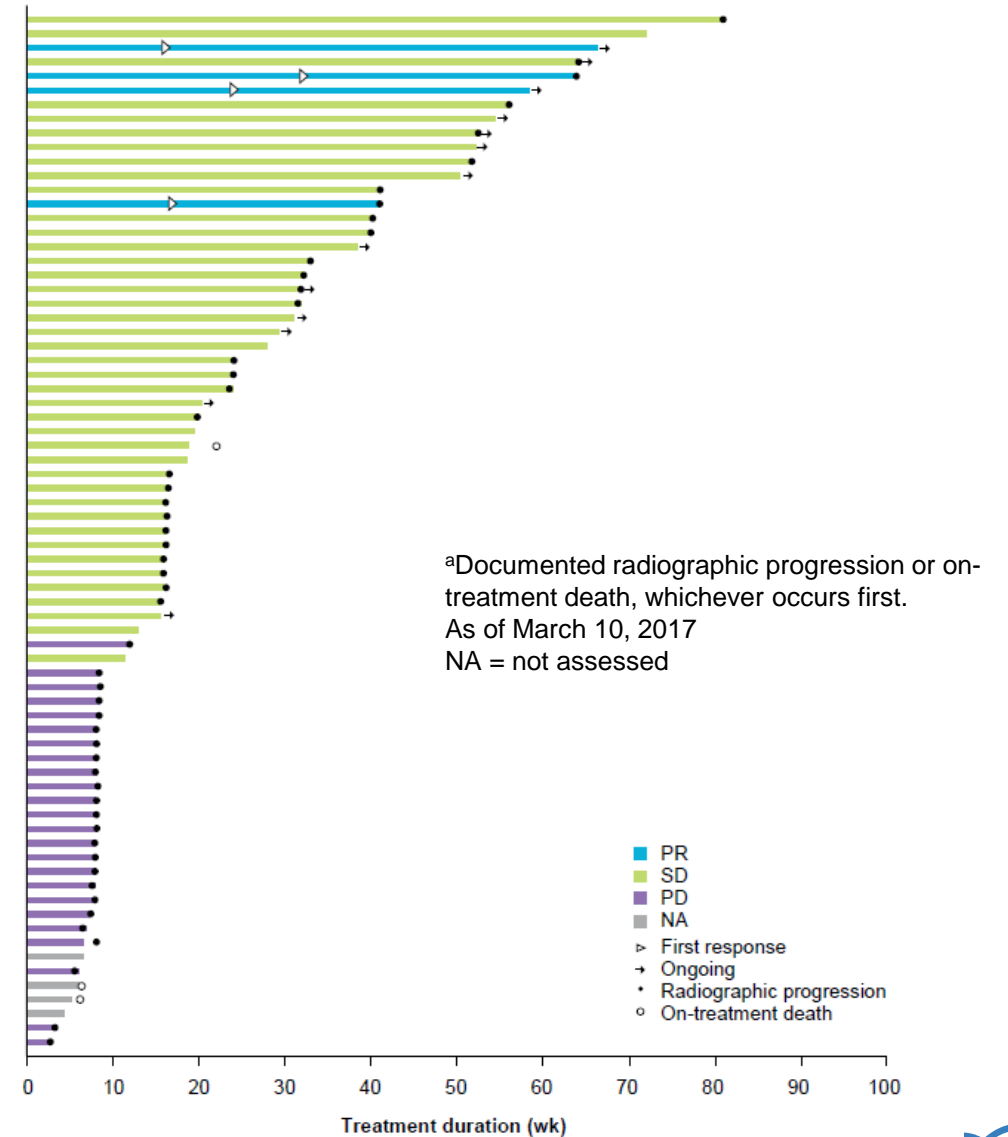


# Ivosidenib Phase 1 Cholangio Data at ASCO – PFS & Duration Data

## Cholangiocarcinoma Patients (N=74)



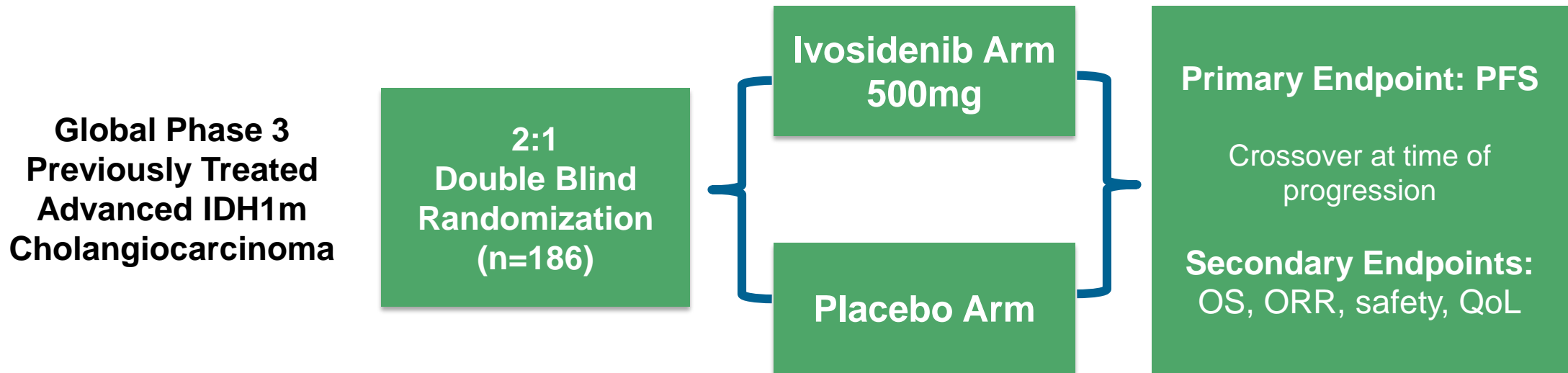
18 of 73 (25%) censored. As of March 10, 2017  
Median 2 prior therapies (range 1–5)



Data presented at ASCO 2017



# Registration-Enabling Phase 3 Cholangiocarcinoma Study



# Second Quarter 2017 Financial Results

*Andrew Hirsch, Chief Financial Officer*



# Second Quarter 2017 Financial Results

Balance Sheet	June 30, 2017	December 31, 2016	June 30, 2016
Cash, Cash Equivalents & Marketable Securities	\$716M	\$574M	\$512M
Total Assets	\$761M	\$619M	\$558M



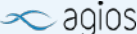





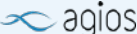

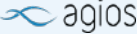

Statement of Operations	Three Months Ended June 30, 2017	Three Months Ended December 31, 2016	Three Months Ended June 30, 2016
Collaboration Revenue	\$11M	\$23M	\$7M
Research & Development Expense	\$80M	\$65M	\$51M
General & Administrative Expense	\$16M	\$15M	\$13M

*The R&D expenses reported for the three months ended June 30, 2017, December 31, 2016 and June 30, 2016 are reported net of cost reimbursements of \$2 million, \$1 million and \$6 million, respectively.*





# Our Pipeline

CLINICAL PROGRAMS	INDICATION	DRUG DISCOVERY	EARLY STAGE CLINICAL DEVELOPMENT	LATE STAGE CLINICAL DEVELOPMENT	APPROVED	PRIMARY COMMERCIAL RIGHTS
<b>IDHIFA®</b> <i>Enasidenib</i> (IDH2m Inhibitor)	R/R AML				●	  Agios U.S. Co-promotion and Royalty
	Frontline AML		●			
<b>Ivosidenib</b> (IDH1m Inhibitor)	R/R AML			●		
	Frontline AML			●		
	Cholangio			●		
<b>AG-881</b> (pan-IDHm Inhibitor)	Glioma		●			Joint Worldwide Collaboration  
	Glioma		●			
<b>AG-348</b> (PK (R) Activator)	PK Deficiency			●		
<b>RESEARCH PROGRAMS</b>						
<b>MTAP Program</b>			●			  Joint Worldwide Collaboration
<b>CM Research Programs</b>		●				
<b>RGD Research Programs</b>		●				
<b>Metabolic IO Research Programs</b>		●				  Joint Worldwide Collaboration

