

J.P. Morgan Healthcare Conference 2026

Agios Pharmaceuticals
Brian Goff, Chief Executive Officer

14 January 2026



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 the potential benefits of AQVESME™ (mitapivat) and PYRUKYND® (mitapivat); Agios' plans for future meetings with, or submissions to, regulators, including the FDA; Agios' plans for the development of mitapivat, tebapivat, AG-236 and AG-181; Agios' estimates regarding market sizes for various indications; and the potential benefits of Agios' strategic plans and focus. The words "anticipate", "estimate", "expect", "goal", "hope", "milestone", "opportunity", "plan", "potential", "possible", "strategy", "will", "vision", 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 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, without limitation: risks and uncertainties related to the impact of pandemics or other public health emergencies to Agios' business, operations, strategy, goals and anticipated milestones, including its ongoing and planned research activities, ability to conduct ongoing and planned clinical trials, clinical supply of current or future drug candidates, commercial supply of current or future approved products, and launching, marketing and selling current or future approved products; 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, the EMA or 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 establish and maintain key collaborations; uncertainty regarding any royalty payments related to the sale of its oncology business or any milestone or royalty payments related to its in-licensing of AG-236, and the uncertainty of the timing of any such payments; uncertainty of the results and effectiveness of the use of Agios' cash and cash equivalents; 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.

Agios – positioned for a growth inflection, advancing pipeline with path to profitability

PK activator franchise as standard of care in multiple hemolytic anemias



Potential to unlock additional value with robust early and mid-stage pipeline

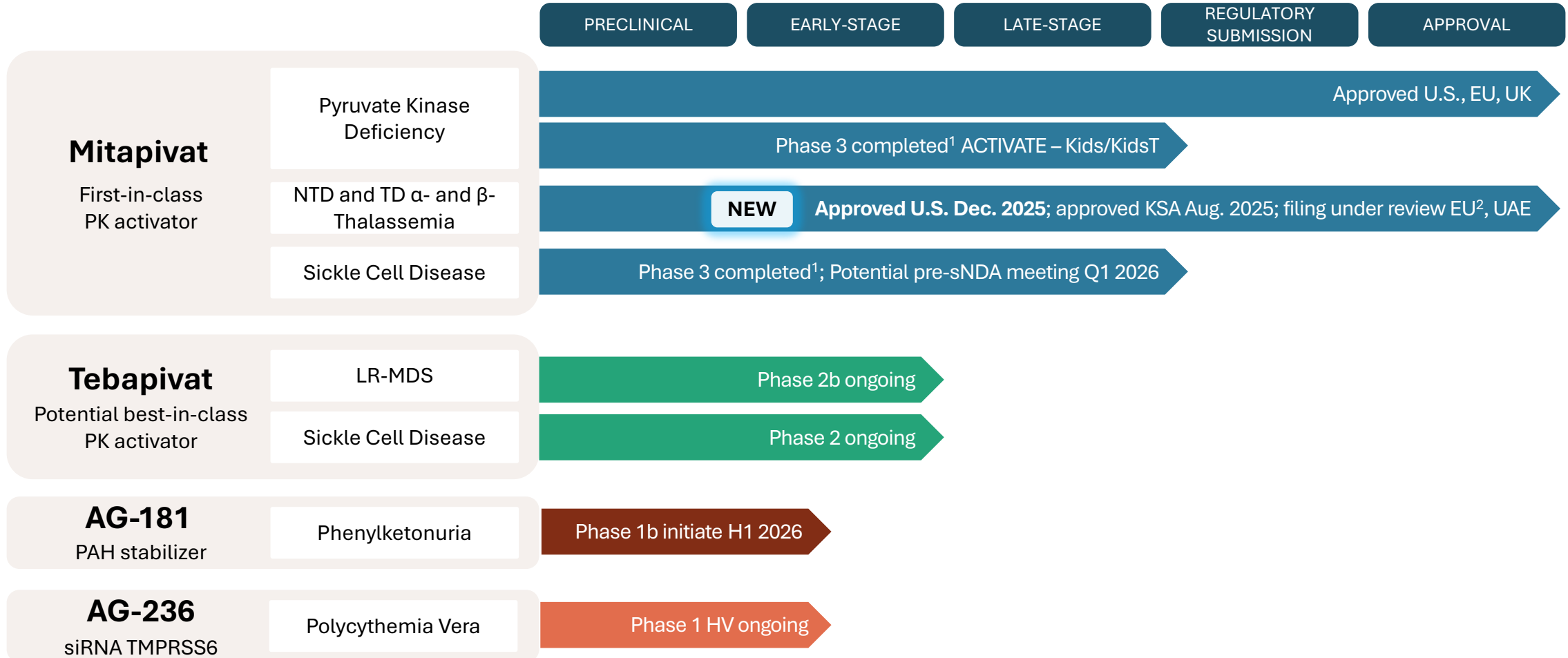


Clear path to **profitability** with existing commercial portfolio



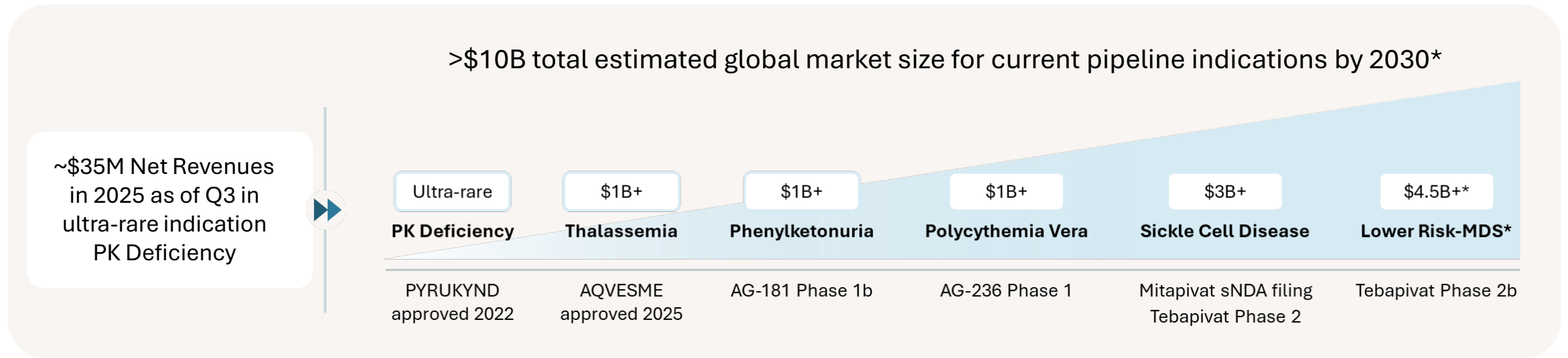
Strong foundation in hematology with ambition to become sustainable rare disease company

Pipeline foundation in hematology, maturing early-stage pipeline offers potential for diversification



1. Defined as completion of double-blind randomized portion of the trial. 2. Positive CHMP opinion disclosed 17 October 2025. PK = pyruvate kinase; NTD = non-transfusion dependent; TD = transfusion dependent; KSA = Kingdom of Saudi Arabia; LR-MDS = lower-risk myelodysplastic syndrome; UAE = United Arab Emirates; SFDA = Saudi Food and Drug Administration; CHMP = Committee for Medicinal Products for Human Use; MAD = multiple ascending dose; PAH = Phenylalanine Hydroxylase; siRNA = small interfering RNA; TMPRSS6 = transmembrane protease serine 6; HV = healthy volunteers.

Potential to unlock significant growth with current pipeline



*EvaluatePharma forecasted worldwide market value in 2030; LR-MDS represents a subset of the provided market size and prevalence is estimated ~70% of total MDS patients. 1. Agios has executed commercialization and distribution agreements with Avanzanite Bioscience in Europe and NewBridge Pharmaceuticals in GCC. PK = pyruvate kinase; sNDA = supplemental new drug application; MDS = myelodysplastic syndrome; EU = Europe; GCC = Gulf Cooperation Countries.

2026 strategic priorities – driving long-term value creation



**Execute high-impact launch for AQVESME™
(mitapivat) in thalassemia**




**Potential to expand PK activation franchise into
sickle cell disease and LR-MDS**



**Unlock future value in hematology and other rare
disease** by advancing early-stage pipeline



Ensure long-term sustainability through disciplined
capital allocation and operational efficiency



Execute high impact launch for
AQVESME in thalassemia



AQVESME™ (mitapivat) – now approved in U.S.
with broad thalassemia label



A pyruvate kinase activator indicated for the treatment of anemia in adults with alpha- or beta-thalassemia

Only FDA approved medicine for anemia in both non-transfusion dependent and transfusion-dependent alpha- or beta-thalassemia



Aqvesme™ – delivering a series of “firsts” in thalassemia

(mitapivat) tablets 100mg



First medicine to address α - or β -thalassemia, regardless of transfusion burden



First oral medicine



First medicine to show quality of life improvements in NTDT patients¹



First medicine to show durable reduction in transfusion burden in TDT patients²

1. Phase 3 ENERGIZE clinical trial achieved significance on primary and key secondary endpoints; 2. Phase 3 ENERGIZE-T clinical trial achieved significance on primary and key secondary endpoints ; durable reduction in transfusion burden observed up to 36 weeks in ENERGIZE-T.



– ready to execute a high-impact commercial launch in the U.S.

4,000

addressable patients at launch

\$425k

annual U.S. WAC for thalassemia



leading patient support services

Potential to deliver \$1B global peak-year-sales across PKD and thalassemia indications



Potential to expand PK activation
franchise into Sickle Cell Disease
and LR-MDS



PK activation proven mechanism in hemolytic anemias

Hemolytic anemias – reduced RBC lifespan drives pathophysiology



Healthy Red Blood Cell –
120 days RBC lifespan



Hemolytic Anemias
Red Blood Cell lifespan –

- PK deficiency 20-30 days
- Thalassemia 20-30 days
- Sickle Cell Disease 10-20 days

Activating PK in glycolytic pathway improves health, energy and lifespan of RBCs



Increase ATP
to match energy
needs of RBCs



Decrease 2,3-DPG
reversibly increasing
oxygen affinity for Hb

Potential application in multiple hematology indications



Mitapivat has proven the transformative potential of PK activation in hemolytic anemias

6 positive well designed, randomized trials across 3 hemolytic anemias

PK deficiency	Thalassemia	Sickle Cell Disease
ACTIVATE ACTIVATE-T	ENERGIZE ENERGIZE-T	Phase 2 RISE UP Phase 3 RISE UP ¹
Statistically significant increase in Hb levels, decreased hemolysis and improvements in patient reported outcomes	Statistically significant increase in Hb levels, reduction in transfusion burden – improvements in hemolysis markers and fatigue	Statistically significant increase in Hb levels, clinically meaningful benefits in Hb responders
PYRUKYND approved 2022 ²	AQVESME approved Dec 2025 ²	Phase 3 RISE UP data Q4 2025

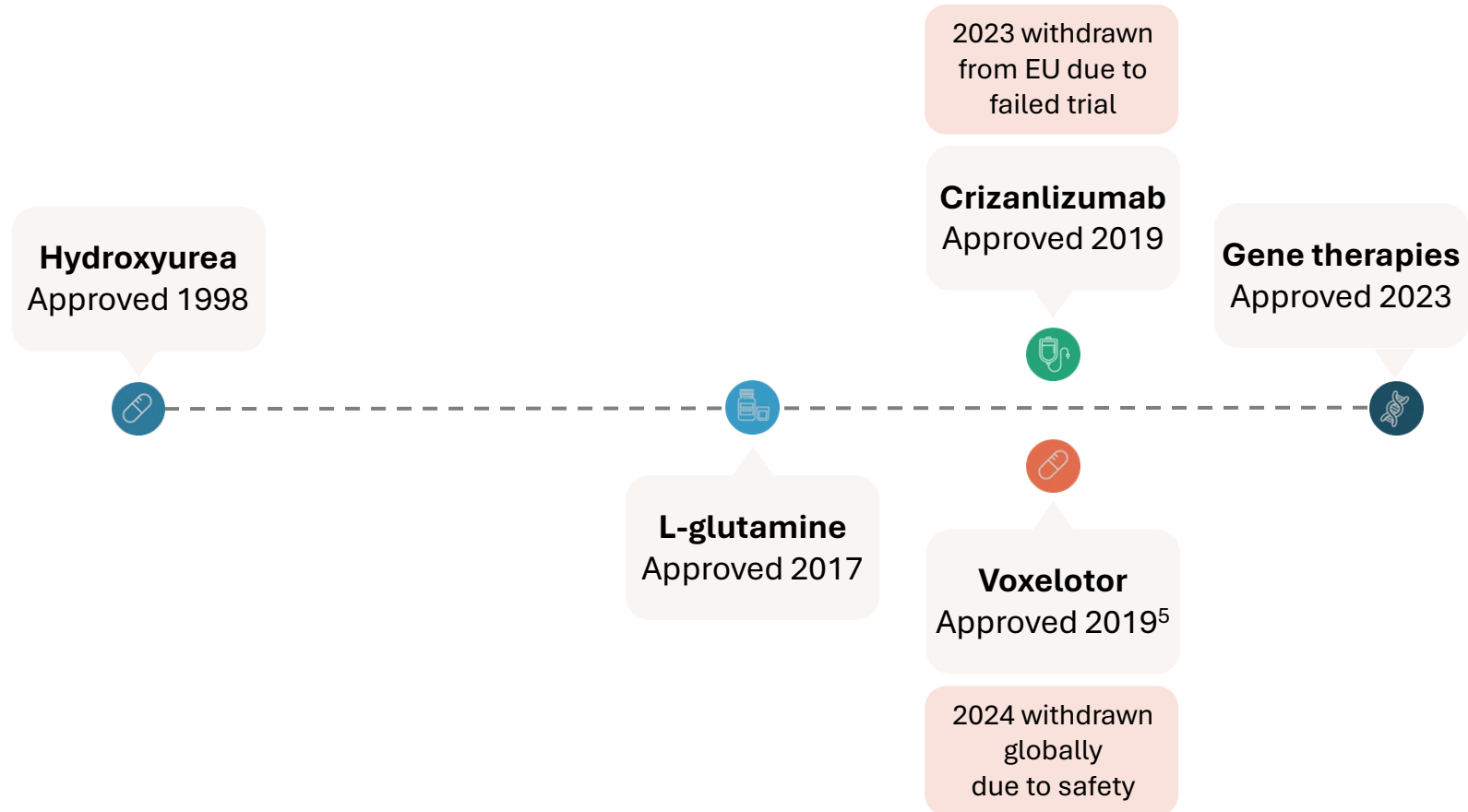
1. Trial met primary endpoint of hemoglobin response and key secondary endpoints of change from baseline in hemoglobin concentration and indirect bilirubin; trial showed trend favoring mitapivat but did not meet statistical significance in primary endpoint of annualized rate of SCPCs (pain crises), and the key secondary endpoint of change from baseline in PROMIS Fatigue was not met. 2. Reflects date of FDA approval in U.S.



Sickle Cell Disease – significant need for novel treatments

Meaningful opportunity with lack of disease-modifying innovation

- ~100,000 diagnosed adult and pediatric patients in the U.S.^{1,2}
- Lack of novel disease-modifying SCD treatment that addresses anemia and reduces SCPCs³
- High global mortality burden – in U.S., average age of death is <40 years old⁴



Dates presented in timeline reflect FDA regulatory approval. 1. CDC Data & statistics on sickle cell disease (Updated July 7, 2023). 2. GBD 2021 Sickle Cell Disease Collaborators. 3. Brandow AM, Llem RI. *J Hematol Oncol.* 2022; 15(20):1-13. 4. Payne AB, et al. *Ann Emerg Med.* 2020;76(3S):S28-S36. 5. Approved under FDA's accelerated approval program. PKa = pyruvate kinase activator; SCD = sickle cell disease; SCPC = sickle cell pain crises; PKR = pyruvate kinase R; PKM2 = pyruvate kinase M2; 2,3-DPG = 2,3- 3-diphosphoglycerate; HbS = sickle hemoglobin; ATP = Adenosine Triphosphate; RBC = Red Blood Cell.



Mitapivat – potential to expand in Sickle Cell Disease

Strong anti-hemolytic profile in total trial population with SCPC trend

- 40.6% of patients achieved Hemoglobin response (≥ 1 g/dL)
- Statistically significant improvement in other markers of hemolysis
 - Hemoglobin concentration
 - Indirect bilirubin

Clinically meaningful benefits in Hb-responders

- 1.6 g/dL mean increase in Hemoglobin concentration (pre-specified)
- 26% decrease in rate of SCPC
- 34% reduction in rate of SCPC hospitalizations
- Reduction in PROMIS-Fatigue T-score

Favorable safety profile

- No similar pattern of HCl as observed in thalassemia
- Low discontinuation rate in the double-blind period
- 174 out of 176 patients opted to rollover into open label extension

Anticipate pre-sNDA meeting with FDA in Q1 2026



Tebapivat – more potent PK activator



Binds longer and stronger to PKR and PKM2 enzymes that regulate RBC energy



Reduced potential for Drug-drug interaction¹



Improved metabolic stability – longer half-life and once-daily dosing

Potential best-in-class PKa – opportunity to deepen Hb response and expand patient reach

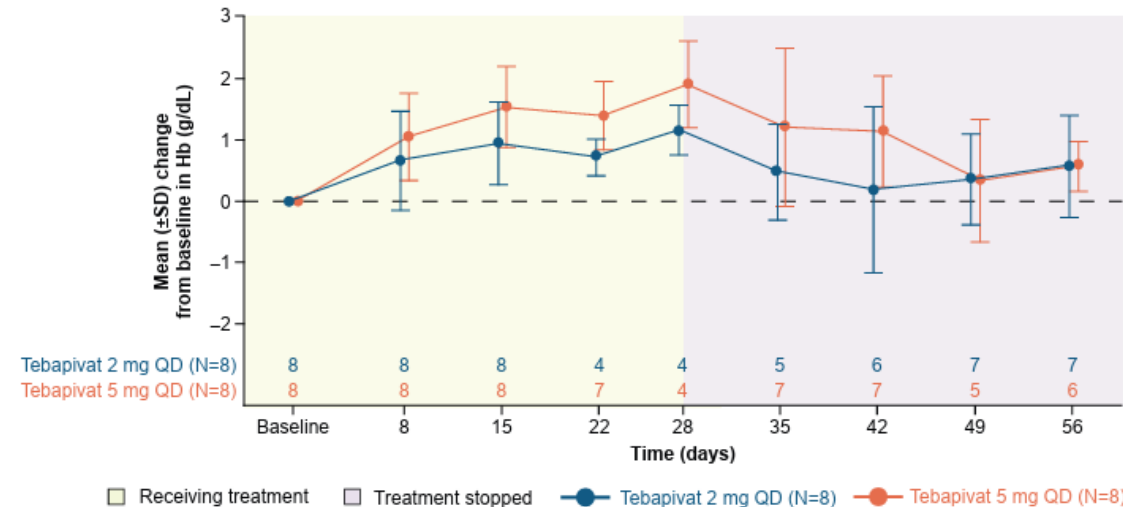


Tebapivat – potential to show leading clinical profile in sickle cell disease

Potential to become leading PK activator in SCD

- Enhanced PK/PD profile drives increased potency
- Potential for enhanced hemoglobin response, driving clinical benefits
 - SCPC-related endpoints
 - QoL improvements
- Opportunity to reach broader patient population

Phase 1 tebapivat data demonstrates strong proof of concept in SCD



Mean change from baseline in Hb across dosing cohorts (2mg, 5mg) at Day 28:

- 1.2 g/dL increase (2mg)
- 1.9 g/dL increase (5mg)

Tebapivat Phase 2 top-line data (2.5mg, 5mg, 7.5mg) anticipated in H2 2026



Tebapivat – novel mechanism and oral dosing with potential for durable response

Phase 2a showed clinical PoC for tebapivat in LR-MDS

- 40% of low transfusion burden cohort achieved transfusion independence
- One patient achieved Hb response in 16-week period
- Safety consistent with Phase 1 healthy volunteer study
- Exposure lower than anticipated at 5mg; need to investigate higher doses

Ongoing open-label Phase 2b designed to test higher doses in heterogeneous patient population reflective of real world



Low or high transfusion burden



Regardless of RS status (+ or -)



≤2 prior treatments




Phase 2b (10mg, 15mg and 20mg) top-line data anticipated H1 2026

Tebapivat – high-risk, high-reward opportunity in LR-MDS

▶▶ Drive future growth with diversified rare disease pipeline



Expanding in hematology – AG-236 for Polycythemia Vera

-  100K diagnosed in U.S.
35% phlebotomy dependent
-  Currently approved treatments consist of phlebotomy, HU, cytoreductive therapies
-  Treatment goal – better hematocrit control and well tolerated

AG-236 – GalNAc siRNA-based TMPRSS6 inhibitor targeting iron homeostasis regulation



Q6M dosing – maintenance of effect



GalNAc siRNA has well characterized immunogenicity profile



No titration, single dose strength drives to maximum effect

Potential to show differentiated profile with applications in other iron dysregulation indications

Phase 1 HV data in H1 2026

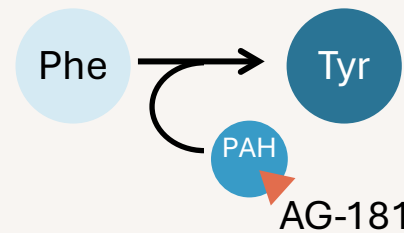


Diversification beyond hematology – AG-181 for PKU

Significant opportunity to transform treatment of PKU





- PKU caused by dysfunctional PAH enzyme
- ~15-20k PKU patients in the U.S.
- Only ~1/6 patients are on active treatment
- Majority of patients rely on diet modification alone

AG-181 novel mechanism of action




AG-181 is a chaperone of PAH – selectively binds and stabilizes enzyme to enhance and restore function

AG-181 unique attributes

-  Oral medicine targeting classical Phenylketonuria
-  Potential fast onset and durable response – no titration
-  Potential for improved safety and tolerability
-  Novel mechanism enables potential combinability

Anticipate first patient dosed in Phase 1b proof of mechanism trial in H1 2026 with results in H2 2026



Financial discipline to achieve growth
and long-term sustainability



Financial discipline to deliver long-term sustainability

Anticipate Operating Expenses in 2026 to be flat compared to 2025 with potential for greater efficiencies beyond 2026¹

Maximize launch of AQVESME in thalassemia

Gated investment for Sickle Cell Disease

Operating model refinement

Clear path to profitability based on thalassemia and PK deficiency alone²

1. Does not include potential business development activities or one-time costs. 2. Non-GAAP. As of September 30, 2025, Agios reported approximately \$1.3 billion in cash, cash equivalents and marketable securities.

Agios – Transforming for tomorrow

2025 in review – continued track record for execution

EARLY



Pediatric PK Deficiency
PYRUKYND

Phase 3 readout ACTIVATE-Kids

MID-YEAR



Sickle Cell Disease
tebapivat

Initiate enrollment in Phase 2 trial



Polycythemia Vera
AG-236

File IND application

LATE



Thalassemia
AQVESME™ (mitapivat)

FDA approval



Sickle Cell Disease
mitapivat

Phase 3 readout RISE UP trial



Lower-Risk MDS
tebapivat

Complete enrollment in Phase 2b trial

2026 strategic priorities – driving long-term value creation



Execute high impact launch for AQVESME (mitapivat) in thalassemia



Potential to expand PK activation franchise into sickle cell disease and LR-MDS

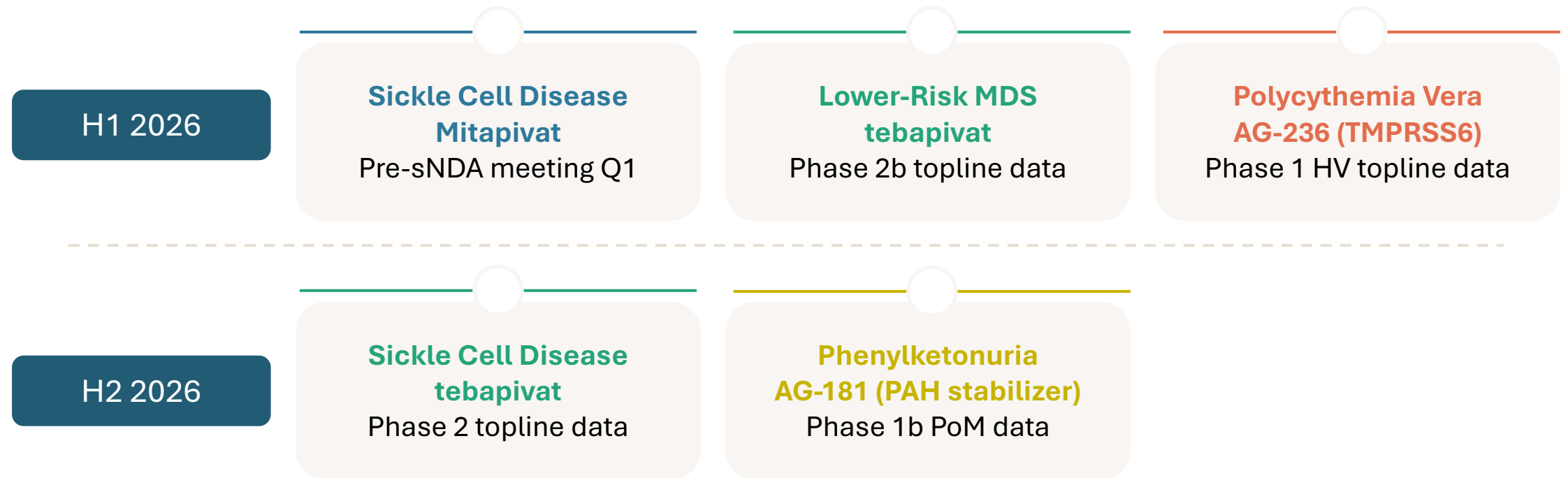


Unlock future value in hematology and other rare disease by advancing early-stage pipeline



Ensure long-term sustainability through disciplined capital allocation and operational efficiency

2026 catalysts reinforce hemolytic anemia leadership and rare disease pipeline potential



AQVESME (mitapivat) U.S. launch underway in thalassemia

Appendix

Appendix – AQVESME is first-and-only PK activator indicated for use in adult thalassemia patients



Indication statement

AQVESME is indicated for the treatment of anemia in adults with alpha- or beta-thalassemia

Mechanism of action

Pyruvate kinase activator that allosterically binds to the pyruvate kinase tetramer and increases pyruvate kinase activity

Dosage and administration

Tablets: 100 mg orally twice daily

For full prescribing information, visit www.aqvesme.com

Appendix – AQVESME REMS for liver monitoring

Warnings and Precautions Label Language

During the double-blind period, 2 of 301 patients (0.66%) with thalassemia treated with AQVESME experienced adverse reactions suggestive of hepatocellular injury. Three additional patients experienced adverse reactions suggestive of hepatocellular injury during the open-label extension periods after switching from placebo to AQVESME. Of these 5 patients, two had serious liver injury and were hospitalized including 1 patient who developed jaundice (peak bilirubin 32 mg/dL). Another patient developed jaundice (peak bilirubin 4 mg/dL) without being hospitalized. These reactions were characterized by a time to onset within the first 6 months of treatment with peak elevations of alanine aminotransferase of $>5 \times \text{ULN}$ with or without jaundice. All patients discontinued treatment with AQVESME, and these reactions improved upon treatment discontinuation.

REMS Monitoring

- Prescriber, patient and pharmacy education and certification
- Liver testing every 4 weeks for the first 24 weeks of treatment
- After 24 weeks, liver testing as clinically indicated

BOXED WARNING – HEPATOCELLULAR INJURY – AQVESME can cause serious hepatocellular injury. Measure liver laboratory tests (ALT, AST, alkaline phosphatase and total bilirubin with fractionation) at baseline and every 4 weeks for 24 weeks and then as clinically indicated. Avoid use of AQVESME in patients with cirrhosis. Discontinue AQVESME if hepatic injury is suspected.

For full prescribing information, visit www.aqvesme.com

1. Obtain liver tests (including ALT, AST, alkaline phosphatase, total bilirubin with fractionation) prior to the initiation of AQVESME, then every 4 weeks for the first 24 weeks, and as clinically indicated thereafter. Interrupt AQVESME if clinically significant increases in liver tests are observed or alanine aminotransferase is >5 times the upper limit of normal (ULN). Complete a comprehensive evaluation to rule out other causes of liver injury when drug-induced liver injury is suspected. Discontinue AQVESME if hepatocellular injury due to AQVESME is suspected.

REMS = risk evaluation and mitigation strategy

Appendix – AQVESME availability in late January

6,000 diagnosed adult thalassemia patients in U.S.

Addressable launch population | 4,000 patients

Higher frequency of visits, transfusion dependent and/or symptomatic

Remaining 2,000 diagnosed adult thalassemia patients

Younger transfused patient on iron chelators

Older patient with kidney disease and/or diabetes

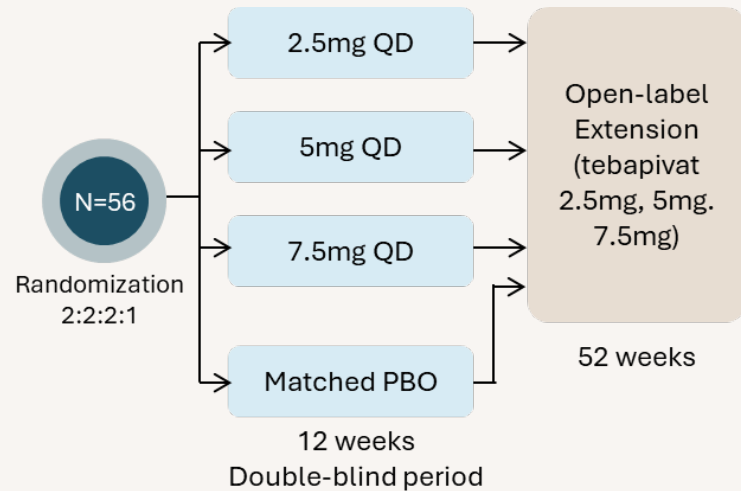
Hb <10g/dL with anemia and fatigue

Hb >10g/dL with anemia

Co-morbid sickle cell disease patient

Appendix – tebapivat Phase 2 Sickle Cell Disease trial

Tebapivat Phase 2 trial for Sickle Cell Disease¹



Key Inclusion Criteria

- Hb ≥ 5.5 - ≤ 10.5 g/dL
- HU use permitted, if dose has been stable for at least 90 days before randomization²

Key Exclusion Criteria

- >10 SCPCs in the past 12 months
- Receiving treatment with voxelotor, crizanlizumab, L-glutamine, or hematopoietic stimulating agents within 90 days before randomization

Primary Endpoint

- Hb response³ at baseline, and from Weeks 10 - 12

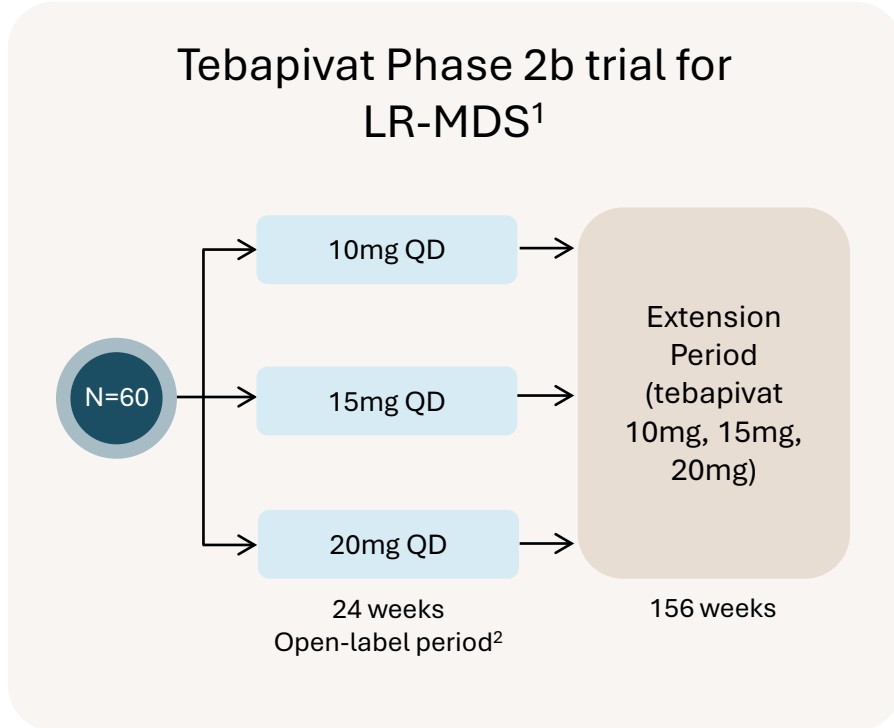
Secondary Endpoints

- Average change from baseline in Hb concentration
- Average change from baseline in markers of hemolysis and erythropoiesis
- PROs: PROMIS Fatigue, PROMIS Pain, ASCQ-Me
- Safety

Phase 2 topline data expected H2 2026

1. Full study details, including participation criteria and study plan can be found at clinicaltrials.gov NCT06924970; 2. Discontinuation of hydroxyurea requires a 90-day washout before providing informed consent; 3. Hb response defined as ≥ 1.0 g/dL increase in hb from Weeks 10-12. Hb = hemoglobin; HU = hydroxyurea.

Appendix – tebapivat Phase 2 Lower Risk-MDS trial



Key Inclusion Criteria

- Lower-risk MDS³
- Transfusion dependent⁴
- Hb <10.0 g/dL
- Up to 2 prior therapies, including ESAs and/or luspatercept

Key Exclusion Criteria

- Known history or AML or secondary MDS
- Prior exposure to a PK activator, IDH inhibitors, IST, stem cell transplant
- Currently receiving imetelstat, iMiDs, HMAs

Primary Endpoint

- Proportion of participants with transfusion independence⁵ during the core period

Secondary Endpoints

- Change in hemoglobin
- Transfusion independence for 12 weeks
- Additional measures of anemia
- PK/PD biomarkers
- Safety

Phase 2b topline data expected H1 2026

1. Full trial details, including participation criteria and study plan, can be found at [clinicaltrials.gov NCT05490446](https://clinicaltrials.gov/NCT05490446); 2. Enrollment completion of one cohort triggers opening of enrollment in the next cohort; 3. Risk score: ≤ 3.5 according to IPSS-R classification (WHO classification; Arber et al, 2016); 4. LTB or HTB according to revised IWG 2018 criteria; 5. Transfusion independence defined as transfusion-free for ≥ 8 consecutive weeks during core period.