



- # Corporate Presentation

November 2025



Forward-Looking Statements

The information contained in this presentation is being supplied and communicated to you solely for your information and may not be reproduced, further distributed to any other person or published, in whole or in part, for any purpose.

The distribution of this presentation in certain jurisdictions may be restricted by law, and persons into whose possession this presentation comes should inform themselves about, and observe, any such restrictions. Although reasonable care has been taken to ensure that the facts stated in this presentation are accurate and that the opinions expressed are fair and reasonable, the contents of this presentation have not been verified by Silence Therapeutics plc (the “Company”) or any other person. Accordingly no representation or warranty, express or implied, is made as to the fairness, accuracy, completeness or correctness of the information and opinions contained in this presentation and no reliance should be placed on such information or opinions. None of the Company, or any of its respective members, directors, officers or employees nor any other person accepts any liability whatsoever for any loss howsoever arising from any use of such information or opinions or otherwise arising in connection with this presentation. No part of this presentation, or the fact of its distribution, should form the basis of or be relied upon in connection with any contract or commitment or investment decision whatsoever. This presentation does not form part of any offer of securities, or constitute a solicitation of any offer to purchase or subscribe for securities or an inducement to enter into any investment activity. Recipients of this presentation are not to construe its contents, or any prior or subsequent communications from or with the Company or its representatives as investment, legal or tax advice. In addition, this presentation does not purport to be all-inclusive or to contain all of the information that may be required to make a full analysis of any transaction. Further, the information in this presentation is not complete and may be changed. Recipients of this presentation should each make their own independent evaluation of the information and of the relevance and adequacy of the information in this document and should make such other investigations as they deem necessary.

This presentation may contain forward-looking statements that reflect the Company’s current views and expectations regarding future events. In particular certain statements with regard to management’s strategic vision, aims and objectives, the conduct of clinical trials, the filing dates for product license applications and the anticipated launch of specified products in various markets, the Company’s ability to find partners for the development and commercialization of its products as well as the terms for such partnerships, anticipated levels of demand for the Company’s products (including in development), the effect of competition, anticipated efficiencies, trends in results of operations, margins, the market and exchange rates, are all forward-looking in nature.

Forward-looking statements involve risks and uncertainties that could cause actual results to differ materially from those expressed or implied by the forward looking statements. Although not exhaustive, the following factors could cause actual results to differ materially from those the Company expects: difficulties inherent in the discovery and development of new products and the design and implementation of pre-clinical and clinical studies, trials and investigations, delays in and results from such studies, trials and investigations that are inconsistent with previous results and the Company’s expectations, the failure to obtain and maintain required regulatory approvals, product and pricing initiatives by the Company’s competitors, inability of the Company to market existing products effectively and the failure of the Company to agree beneficial terms with potential partners for any of its products or the failure of the Company’s existing partners to perform their obligations, the ability of the Company to obtain additional financing for its operations and the market conditions affecting the availability and terms of such financing, the successful integration of completed mergers and acquisitions and achievement of expected synergies from such transactions, and the ability of the Company to identify and consummate suitable strategic and business combination transactions and the risks described in our most recent Admission Document.

By participating in this presentation and/or accepting any copies hereof you agree to be bound by the foregoing restrictions and the other terms of this disclaimer.



- **Silencing diseases through precision engineered medicines created with proprietary siRNA technology**

Key Milestones Achieved This Year



- ✓ Presented updated SANRECO Phase 1 data at EHA 2025 further supporting potential for divesiran as first-in-class siRNA in PV
- ✓ Achieved rapid enrollment in SANRECO Phase 2 PV study - topline results expected in 3Q 2026
- ✓ Completed core Phase 3 readiness activities for zerlasiran in high Lp(a)
- ✓ Advanced extra-hepatic cell targeting of siRNA with promising initial data

Evolution of Silence

siRNA work begins in our Berlin research labs

AIM listing, company named **Silence Therapeutics plc**

- Focus shifted to GalNAc siRNA
- Robust IP protection
- Nasdaq listing



1998

2002

2005-2007

2009-2015

2016-2021

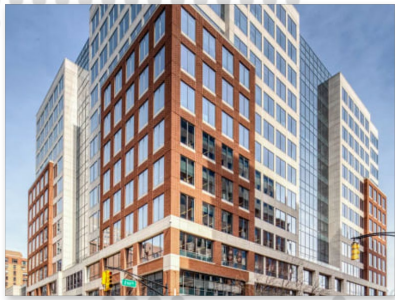
PRESENT

First core patent application on siRNA technology

LNP-siRNA expertise

Progression of our pipeline into the clinic and multi-target collaboration with AstraZeneca

Our Global Footprint



NEW JERSEY
US OFFICE



LONDON
COMPANY HQ



BERLIN
R&D OPERATIONS

**siRNA expertise spanning drug discovery,
design and clinical development**

Precision Engineered Medicines to Silence Disease



The Silence siRNA Platform

- **Precise:** each siRNA is uniquely designed to only bind to the target mRNA, which can reduce potential for side effects
- **Broad Utility:** targeting both rare and common diseases
- **Durable, yet Reversible:** siRNA therapies can achieve long lasting effects without permanently altering the gene
- **Clinical Results:** demonstrated in multiple areas of high unmet need



Our Toolbox Considers all Elements of siRNA and Ligand Design



- siRNA matched to target gene
- Silence has developed chemical modification patterns that enhance stability and improve activity



- Silence has developed proprietary linkers, enabling the attachment of targeting ligands to the siRNA molecule



- GaINAc ligand delivers molecule to specific liver tissues/cells
- Highly targeted to liver

Continuous Fine-Tuning to Further Improve Performance



Development Pipeline



	Disease	Preclinical	Phase I	Phase II	Phase III
Zerlasiran (SLN360)	Cardiovascular	[Progress bar spanning Preclinical, Phase I, and Phase II]			
Divesiran (SLN124)	Polycythemia Vera (PV)	[Progress bar spanning Preclinical, Phase I, and Phase II]			
	Multiple Hematologic Conditions	[Progress bar spanning Preclinical and Phase I]			
SLN548	Complement Mediated	[Progress bar spanning Preclinical and Phase I]			
Multiple Programs	Undisclosed	[Progress bar spanning Preclinical and Phase I]			
SLN312 ¹	Undisclosed	[Progress bar spanning Preclinical and Phase I]			

¹ Licensed to AstraZeneca with milestones and royalties as part of ongoing collaboration to discover, develop and commercialize siRNA therapeutics for cardiovascular, renal, metabolic and respiratory diseases using Silence's mRNAi GOLD™ platform



- **Divesiran**

Polycythemia Vera

Polycythemia Vera (PV) is a Rare Blood Cancer with Significant Unmet Needs



- **Myeloproliferative neoplasm characterized by the excessive production of red blood cells (RBCs)**
 - Elevated hematocrit (HCT) is a hallmark of the disease, indicating overproduction of RBCs
- **Serious, chronic disease associated with increased thrombotic and cardiovascular risks¹⁻³**
- **Rare disease with ~150,000 in the US and ~3.5m worldwide⁴**
 - Diagnosed commonly in individuals 50-70 years of age
 - Median survival ~20 years

Treatment goal is to control HCT <45% to reduce CV and major thrombotic events

People Living with PV Have Significant Unmet Needs



Inconsistent HCT Control

- Patients with HCT between 45-50% are ~4x more likely to die from CV causes or major thrombotic events than those <45%¹
- Most patients have uncontrolled HCT with tests $\geq 45\%$ ²

Iron Deficiency

- Most patients with PV are iron deficient due to depleted bone marrow iron levels³
- Some treatments exacerbate disease-related symptoms by inducing iron deficiency^{3,4}

Disease Burden

- Patients with elevated HCT often require frequent phlebotomies to manage condition
- 30-40% of PV patients who receive cytoreductive therapy have a suboptimal response and toxicity issues⁵
- Patients have burdensome symptoms, including fatigue and concentration problems⁵

“The PV aspect means that you have to have phlebotomies regularly and I think the most crippling thing about that is the fatigue.”

– **Nona Baker**



Nona Baker
Co-chair of MPN UK
Living with PV

Divesiran is a First-in-Class siRNA for PV with Unique MOA



Compelling Ph1 efficacy & safety



Infrequent Dosing Profile



Opportunities for Improved Quality of Life



Opportunities for Differentiation



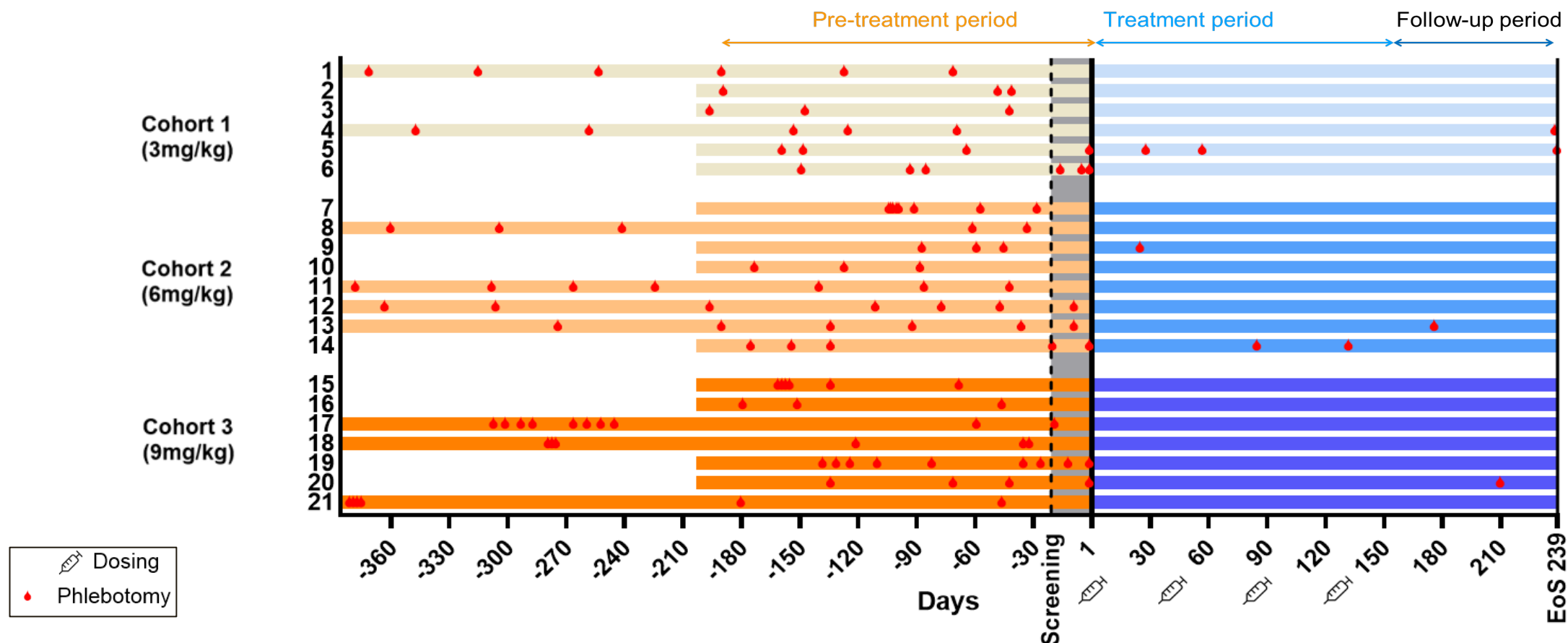
SANRECO Phase 1 Study Overview

Study Completed in February 2025



Design	<ul style="list-style-type: none">• Open-label, dose-finding study of divesiran in 21 PV patients• 6 patients at 3 mg/kg, 8 patients at 6 mg/kg and 7 patients at 9 mg/kg
Key Inclusion Criteria	<ul style="list-style-type: none">• PV diagnosis• At least 3 phlebotomies in the last 6 months or 5 in the last year prior to screening• Stable dose of cytoreductive agents allowed• No HCT threshold
Dosing & Follow-up	<ul style="list-style-type: none">• Administered subcutaneously Q6W for four doses• 16-week follow-up period following the date of the last administered dose• Total duration of study 34 weeks
Key Objectives	<ul style="list-style-type: none">• Safety and tolerability• Assessment of the number of phlebotomies at 3 intervals (pre-treatment, treatment and follow-up)

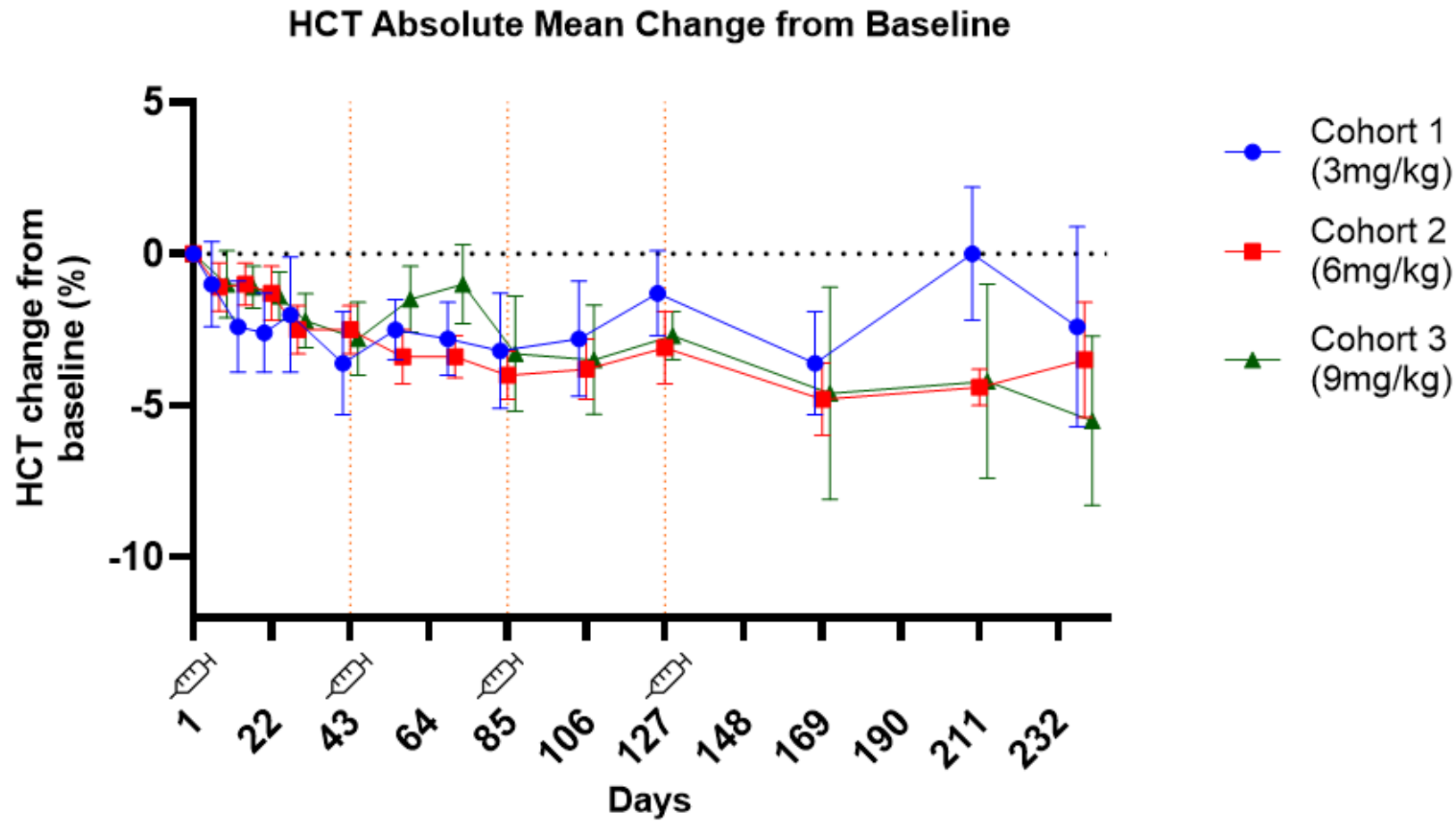
Divesiran Reduced Phlebotomy Frequency in All PV Patients



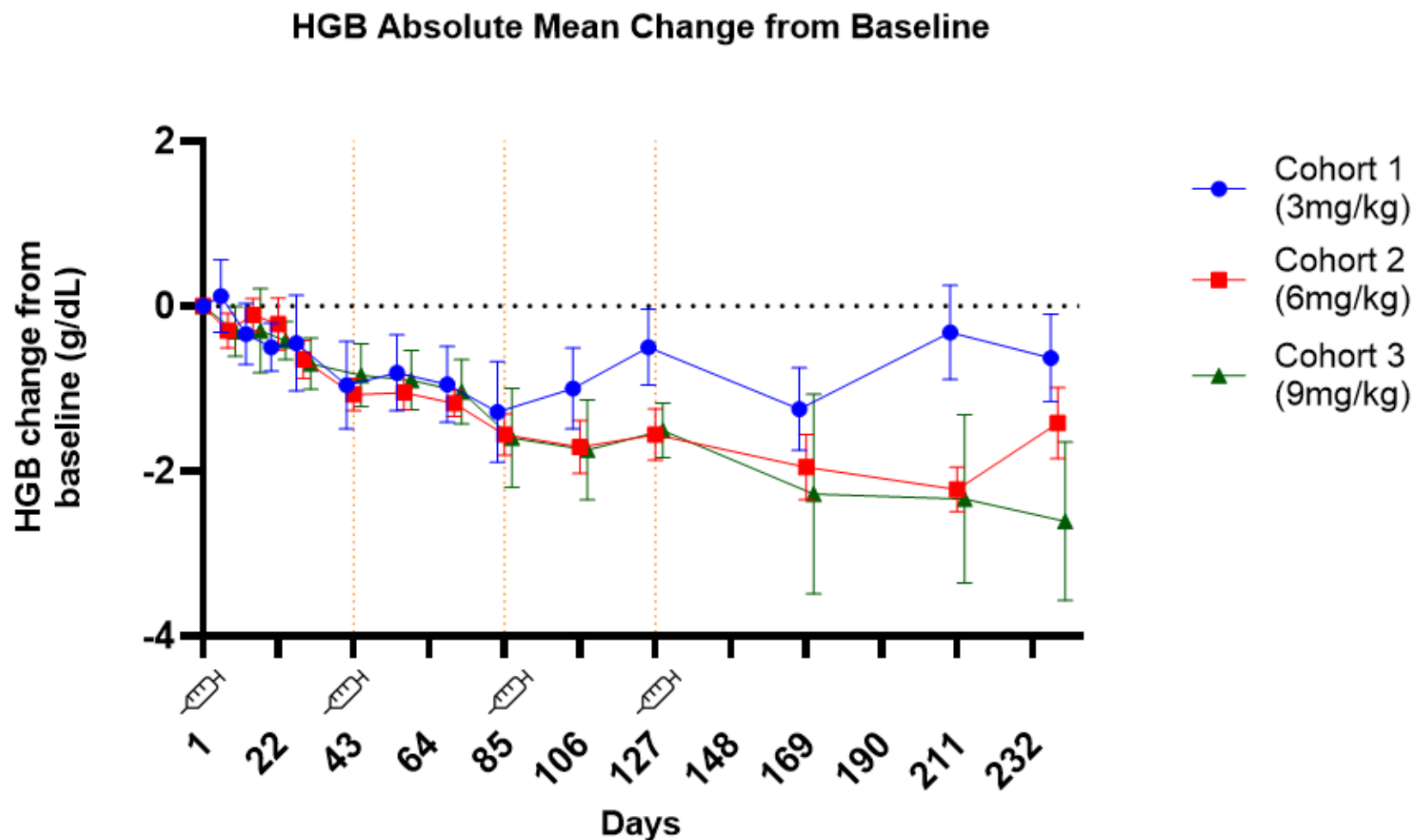
**79 Phlebotomies Prior to Dosing, 5 in Treatment Period and 4 in Follow-up;
No Well-Controlled Patients (HCT<45% at Baseline) Required a Phlebotomy**

1. Data Presented at the European Hematology Association. June 12, 2025. SANRECO, an On-going Phase 1/2 Study Evaluating Divesiran, Novel GalNAc-conjugated siRNA, in Patients with Polycythemia Vera. Abstract Code: SS24;
2. Pre-dose from D-201 to D-1, Treatment period D1 to D169 and FU D169 to D239; EoS = End of Study visit; 3. Data cut-off 24th April 2025.

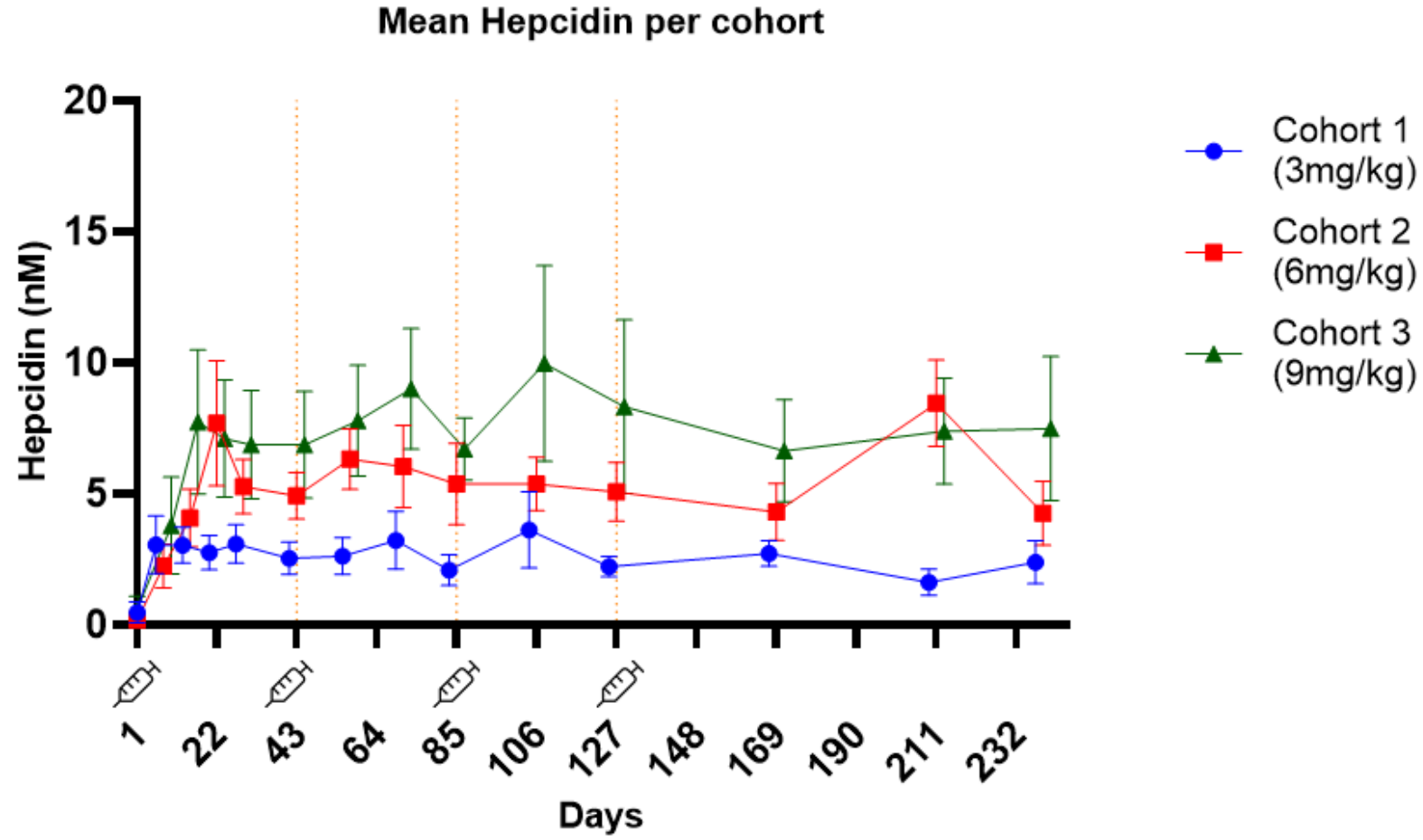
Divesiran Reduced Hematocrit in All PV Patients Regardless of Baseline Levels



Divesiran Reduced Hemoglobin in All Cohorts



Divesiran Treatment Produced Sustained Increases in Hepcidin



1. Data Presented at the European Hematology Association. June 12, 2025. SANRECO, an On-going Phase 1/2 Study Evaluating Divesiran, Novel GalNAc-conjugated siRNA, in Patients with Polycythemia Vera. Abstract Code: SS24; 2. Orange dotted line represent dosing dates. Error bars represent \pm SEM; All data available for each time point is reported; 3. Data cut-off 24th April 2025.

Divesiran Demonstrated a Favorable Safety and Tolerability Profile



- Divesiran was well tolerated with no dose-limiting toxicities
- No treatment-related serious adverse events or TEAEs leading to discontinuation

Divesiran Phase 1 Study Highlights Potential for First-in-Class siRNA to Address Multiple Unmet Needs in PV



EFFICACY

Divesiran reduced HCT levels and eliminated the need for phlebotomy in target population



DURABILITY

Effects were sustained during the treatment period



SAFETY

Well tolerated with no dose-limiting toxicities



CONVENIENT DOSING

Administered s.c. Q6W

SANRECO Phase 2 Study Overview



Design	<ul style="list-style-type: none">• Randomized, double-blind, placebo-controlled study of divesiran in up to 40 PV patients
Key Inclusion Criteria	<ul style="list-style-type: none">• PV diagnosis• At least 3 phlebotomies in the last 6 months or 5 in the last year prior to screening• Stable dose of cytoreductive agents allowed• HCT level <45% prior to dosing
Dosing & Follow-up	<ul style="list-style-type: none">• Evaluating Q6W and Q12W dosing regimens• Primary endpoint at 36-weeks
Key Objectives	<ul style="list-style-type: none">• Evaluate % of patients with HCT at or below 45% without the need for phlebotomies• Evaluate effect of divesiran in improving PV related symptoms

Study Fully Enrolled – Topline Results Expected in 3Q 2026


A scientist wearing a white lab coat, safety glasses, and a white face mask is using a pipette to transfer liquid into a petri dish. The background is a blurred laboratory setting with various pieces of equipment. The entire image has a blue tint. On the right side, there is a large, light blue graphic of a DNA double helix. On the left side, there is a vertical orange line with a dot at the top.


Zerlasiran

Cardiovascular Disease

Zerlasiran Targets Lp(a): an Independent Risk Factor for Cardiovascular Disease



 At least 20% of the global population has high Lp(a) defined as ≥ 125 nmol/L (~ 50 mg/dL)¹

 Lp(a) levels are genetically determined

 Recognized as a major untreated risk factor in cardiovascular disease

 Lp(a) levels are not significantly modifiable by approved medicines or lifestyle changes

Zerlasiran Has the Potential to Address Major Unmet Needs in Cardiovascular Disease

mg/dL: milligrams per deciliter, nmol/L: nanomoles per liter (approximate conversion factor of 2.5)

1. Lau, F. D., & Giugliano, R. P. (2022). Lipoprotein (a) and its significance in cardiovascular disease: a review. *Jama Cardiology*, 7(7), 760-769.

Zerlasiran Has Substantial Market Potential

High Cholesterol vs High Lp(a) in Cardiovascular Disease

High Cholesterol is a Modifiable Risk Factor



Lifestyle changes can have a positive impact

High Lp(a) is a Genetic Risk Factor



Lifestyle changes have no effect on Lp(a) levels

Similar Medically Treated Population

Patients with High Total Cholesterol vs. High Lp(a)
US + EU5 Markets

High Total Cholesterol¹
US ≥ 200 mg/dL
EU5 ≥ 190 mg/dL

136M

103M

High Lp(a)²
≥ 50 mg/dL
(no indicated treatments)

132M

- Estimated medically treated
- Lifestyle changes

Blockbuster Potential

Sales of Cholesterol-Lowering Drugs Peaked at >\$30B^{3,4}

Lipitor®
(atorvastatin)

\$12.9B
peak sales

Crestor®
(rosuvastatin)

\$7.0B
peak sales





Zocor®
(simvastatin)

\$5.2B
peak sales

¹ Datamonitor Healthcare | Informa 2018, ² Varvel et al Arterioscler Thromb Vasc Biol. 2016;36:2239, Tsimikas et al. Atherosclerosis 2020;300:1, Nordestgaard et al. Eur Heart J. 2010;31:2844, ³ Biomedtracker, Internal Analysis; ⁴ Kidd, J., Nat Rev Drug Discov. 2006;5(10):813

Zerlasiran Phase 2 Study Supports Competitive Profile with Opportunity to Further Differentiate in Phase 3



	EFFICACY	Maximum Lp(a) reductions exceeded 90%
	DURABILITY	Lp(a) reductions persisted 60 weeks following first dose
	SAFETY	Well tolerated with no major safety issues
	CONVENIENT DOSING	Phase 2 study evaluated Q16W and Q24W dosing intervals

Zerlasiran Program Status



- ✓ Core Phase 3 readiness activities complete
- ✓ Alignment with global regulatory agencies on Phase 3 design and endpoints

Next Steps:

- Seeking potential third-party partners for Phase 3 development
- First industry CVOT evaluating Lp(a) lowering therapy impact on cardiovascular events scheduled to readout in 2026

Silence is Well Positioned Today with Multiple Potential Value Drivers



Productive GOLD platform, delivering positive results in multiple areas of high unmet need

Multiple clinical programs, including Ph. 3 ready CV asset and Ph. 2 first-in-class siRNA for PV

Extra-hepatic activities demonstrating promising pre-clinical activity

Strong financial position with projected cash runway into 2028

Silencing diseases through precision engineered medicines created with proprietary siRNA technology

**Great
Place
To
Work[®]**

Certified

OCT 2024-OCT 2025

DE

**Great
Place
To
Work[®]**

Certified

OCT 2024-OCT 2025

UK

**Great
Place
To
Work[®]**

Certified

OCT 2024-OCT 2025

USA