

FORWARD LOOKING STATEMENTS

This presentation, which includes all information and data on the following slides, any oral statements made when presenting these slides, and any other material distributed or statements made at, or in connection with, such presentation (the "Presentation"), relates to Ascelia Pharma AB (publ) (hereinafter, together with its subsidiaries, the "Company") is furnished to you solely for your information and may not be reproduced or redistributed, in whole or in part, to any other person without the prior written consent of the Company. You should not rely upon it or use it to form the definitive basis for any decision, contract, commitment or action whatsoever, with respect to any transaction or otherwise.

The information included in this Presentation may contain certain forward-looking statements relating to the business, financial performance and results of the Company and/or the industry in which it operates. Forward-looking statements concern future circumstances and results and other statements that are not historical facts, sometimes identified by the words "believes", "expects", "predicts", "intends", "projects", "plans", "estimates", "aims", "foresees", "anticipates", "targets", and similar expressions. The forward-looking statements contained in this Presentation, including assumptions, opinions and views of the Company or cited from third party sources are solely opinions and forecasts which are subject to risks, uncertainties and other factors that may cause actual events to differ materially from any anticipated development. Neither the Company nor any of its affiliates, directors, employees or advisors provides any assurance that the assumptions underlying such forward-looking statements are free from errors nor do any of them accept any responsibility for the future accuracy of the opinions expressed in this Presentation or the actual occurrence of the forecasted developments. This Presentation speaks as of the applicable reporting date, and there may have been changes in matters which affect the Company subsequent to the date of this Presentation. Neither the issue nor delivery of this Presentation shall under any circumstance create any implication that the information contained herein is correct as of any time subsequent to the date hereof or that the affairs of the Company have not since changed, and the Company does not intend, and does not assume any obligation, to update or correct any information included in this Presentation.

Each person should make their own independent assessment of the merits of the Company and should consult their own professional advisors. By receiving this Presentation, you acknowledge that you will be solely responsible for your own assessment of the market and the market position of the Company and that you will conduct your own analysis and be solely responsible for forming your own opinion of the potential future performance of the Company's business.





QUARTERLY REPORT Q2 2024 INVESTOR CONFERENCE CALL

Agenda

Ascelia Pharma highlights
Recent key events
Portfolio
Financials and priorities ahead

Presenters

CEO - Magnus Corfitzen
Deputy CEO - Julie Waras Brogren
CSO - Andreas Norlin





ASCELIA PHARMA - HIGHLIGHTS

Pipeline

ORVIGLANCE® – Registration phase

- First-in-class contrast agent for use in liver MRI in patients with severely impaired kidney function
- FDA Orphan Drug Designation
- Global addressable market of USD 800 million
- Phase 3 study successful and clinical development completed

ONCORAL – Phase 2-ready

- Daily, oral irinotecan chemotherapy
- Clinical collaboration with Taiho Oncology
- Opportunity in gastric cancer and other solid tumors

Global outlook and Nordic roots

Based in Malmö (Sweden), US affiliate in New Jersey (US) Listed on NASDAQ Stockholm (Ticker: ACE)



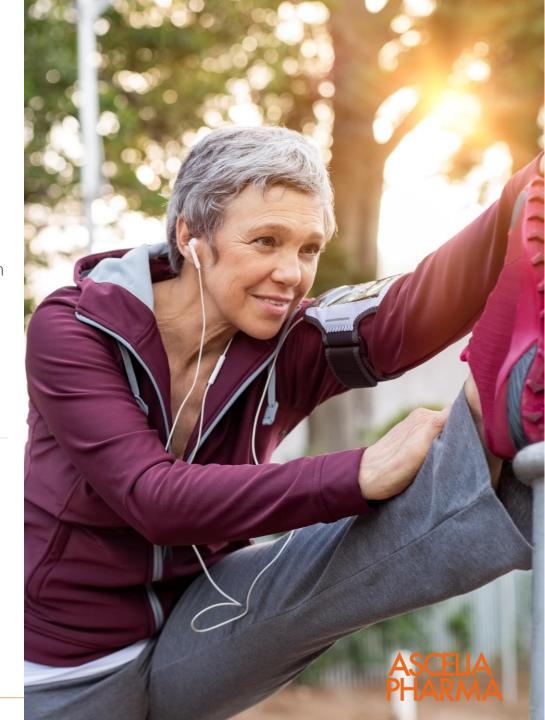
Q2 2024 PROGRESS

Key events in Q2 2024

- ◆ SPARKLE image reading completed with expected headline results first half of May 2024
- ♦ Ascelia Pharma draws down SEK 15 million second tranche under existing loan
- → Primary endpoint successfully met with strong headline results in Orviglance phase 3 study
- → Bulletin from the Annual General Meeting in Ascelia Pharma AB on 6 May 2024
- → Ascelia Pharma hosts Investor Update: Bringing Orviglance to Patients

Key events after the period

- ◆ Ascelia Pharma carries out a Rights Issue of units of approximately SEK 105 million to fully finance the NDA submission for Orviglance
- → Notice of Extraordinary General Meeting in Ascelia Pharma 14 August
- ♦ Bulletin from the Extraordinary General Meeting in Ascelia Pharma 14 August



RIGHTS ISSUE TO CAPITALIZE ON PHASE 3 RESULTS

Allowing all shareholders to take part of the value creation opportunities ahead

- Raising up to 105 MSEK
- Investment commitments and guarantees amounting to 70 MSEK

Use of proceeds

- NDA submission to FDA
- Partnering of Orviglance
- Amortize 7.5 MSEK of convertible to Fenja Capital

Key dates

EGM to approve the Rights Issue	14 Aug 2024	
Last day of trading in shares including the right to receive unit rights	14 Aug 2024	
First day of trading in shares excluding the right to receive unit rights	15 Aug 2024	
Record date for participation in the Rights Issue	16 Aug 2024	
Publication of the Prospectus	16 Aug 2024	
Trading in unit rights on Nasdaq Stockholm	20 Aug - 29 Aug 2024	
Subscription period	20 Aug - 3 Sept 2024	
Announcement of the final outcome of the Rights Issue	5 Sept 2024	
Trading in paid subscribed units ("BTU")	20 Aug - 20 Sept 2024	



ATTRACTIVE ORVIGLANCE OPPORTUNITY

- A well-defined unmet need for liver imaging in cancer patients with impaired kidney function
- A global addressable market opportunity of USD 800 million
- Clinical development completed with 9 studies and strong phase 3 results
- Commercial scale manufacturing
- Orviglance advances to regulatory filing and approval phase



SUBSTANTIAL VALUE CREATION OPPORTUNITIES







Advance Orviglance to approval

Progress Orviglance commercialization readiness

Develop pipeline potential

Objectives

Timely submission and approval by the US FDA as an orphan drug with an optimal label for the use in the target population

Focused launch for well-defined patient population

Global commercialization through partners

Demonstrate Oncoral efficacy and safety in Phase 2

Expand Orviglance franchise with 2nd generation

dilestone

- Full Clinical Study Report early Q4 2024
- Conclusions from FDA presubmission meeting by Q1 2025
- NDA submission mid-2025

- Advance launch readiness
- Commercialization partnership

 Initiate Oncoral Phase 2 clinical study when financing allows



ORVIGLANCE®

Liver diagnostic imaging drug

ONCORAL

Daily, oral chemotherapy



ORVIGLANCE - FILLING AN UNMET NEED IN LIVER MRI

Patient Landscape

Liver metastases are critical in cancer care



Liver metastases are common in many cancer types and often the cause of mortality ¹⁻³

 Colorectal cancer, metastatic breast cancer, gastric cancer

Treatments

Contrast enhanced MRI is the gold standard



Contrast enhanced MRI

- Detection and visualization
- Surgery & drug treatment plan
- Post-treatment surveillance

Unmet Need

A role for ORVIGLANCE in patients with severe kidney impairment



Patients with healthy kidneys

 Receive MRI with gadoliniumbased contrast agent (GBCA)

Patients with severe kidney impairment

- Black Box warning for gadolinium contrast agents
- Risk of severe side effects, incl. Nephrogenic Systemic Fibrosis (NSF)

ORVIGLANCE

Aims to be the imaging option without gadolinium-related safety risks in patients with severe kidney impairment

- Manganese based
- Liver specific



¹⁾ Riihimäki, M. et al. Patterns of metastasis in colon and rectal cancer. Sci. Rep. 6, 29765; doi: 10.1038/srep29765 (2016); Journal of Pathology, 2014, 232:23-31

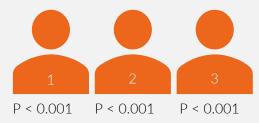
²⁾ Guy diSibio and Samuel W. French (2008) Metastatic Patterns of Cancers: Results From a Large Autopsy Study. Archives of Pathology & Laboratory Medicine: June 2008, Vol. 132, No. 6, pp. 931-939

³⁾ Rahbari et al. Metastatic Spread Emerging From Liver Metastases of Colorectal Cancer: Does the Seed Leave the Soil Again? Annals of Surgery; February 2016 - Volume 263 - Issue 2 - p 345-352

STRONG SUPERIORITY OF ORVIGLANCE IN PHASE 3

Primary Endpoint Met Successfully

- Phase 3 study demonstrated strong superiority in visualization of focal liver lesions with Orviglance (CMRI) compared to unenhanced MRI
- Visualization scored **significantly higher** with Orviglance than without for all three readers with
 - statistical significance (p<0.001)
 - strong and conclusive reliability of the data including variability



 Common adverse events were consistent with previous studies, such as mild to moderate nausea; no serious adverse drug reactions were observed

PRESS RELEASE

02 May 2024 11:12:00 CEST



Ascelia Pharma Successfully Meets Primary Endpoint with Strong Headline Results in Orviglance Phase 3 Study

Ascelia Pharma AB (publ) (ticker: ACE), a biotech focused on improving the life of people living with rare cancer conditions, today announced that liver imaging drug candidate, Orviglance®, significantly improved visualization of focal liver lesions, successfully meeting the primary endpoint in the pivotal Phase 3 study SPARKLE. Investors and analysts are invited to the virtual Investor Update: "Bringing Orviglance to Patients", on Tuesday, 7 May at 14:00 CEST



CLINICAL DEVELOPMENT COMPLETED



Nine studies with consistent positive efficacy and safety results¹⁻⁷

286 patients and healthy volunteers

Phase 1 studies demonstrated safety, absorption and signal intensity Total 4 studies with 126 healthy volunteers

Phase 2 studies demonstrated efficacy and safety in patients with known metastases Total 4 studies with 75 patients

Orviglance efficacy confirmed vs. gadolinium & unenhanced in re-evaluation Re-read of phase 2 study (20 patients) with liver metastases with same endpoint as in phase 3

Phase 3 study confirmed efficacy and safety in the target population Pivotal study on visualization of focal liver lesions and safety in patients with severe kidney impairment (85 patients)



¹⁾ Thomsen HS et al, Acad Radiol 2004: 11: 630-636

²⁾ Thomsen HS et al. Eur Radiol 2007, 17: 273-278

³⁾ Rief M et al. Invest Radiol, 2010; 45: 565-71

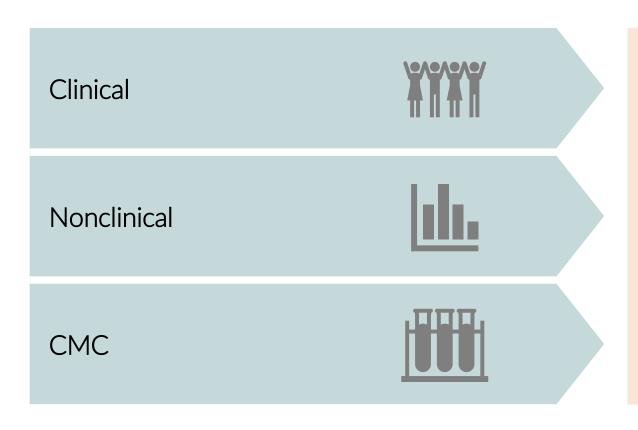
⁴⁾ Brismar TB et al., Eur Radiol 2012; 22:633-41

⁵⁾ Albiin N et al. MAGMA, 2012; 25:361-368

⁶⁾ Study CMC-P005, primary objective to study of Orviglance for imaging of bile ducts (not published)

⁷⁾ Results from Phase 1 and 2 and Food Effect and Hepatic Impairment Studies presented at RSNA and ESGAR conferences between 2022 and 2023

ADVANCING ORVIGLANCE TOWARDS APPROVAL



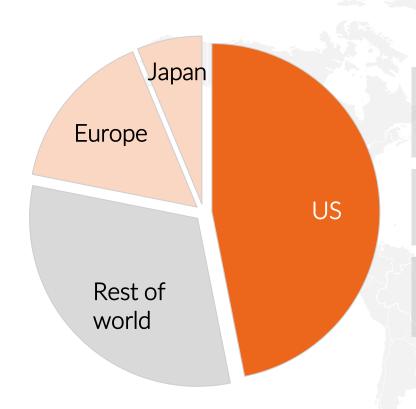
US FDA

Timely submission and approval by the US FDA as an orphan drug with an optimal label for use in the target population

- Full Clinical Study Report early Q4 2024
- Conclusions from FDA pre-submission meeting by Q1 2025
- NDA submission mid-2025



ADDRESSABLE MARKET OF USD 800 MILLION ANNUALLY



Global addressable market of USD 800 million, half of this in the US

Focused launch for well-defined patient population in liver imaging in cancer patients with severe kidney impairment

Global commercialization through partners



ATTRACTIVE US OPPORTUNITY



Abdominal imaging procedures in cancer patients with severe kidney impairment based on epidemiology and real-world data¹

Around 400 healthcare provider accounts serve 75% of kidney impaired patients⁴

Pricing range benchmarks based on innovative diagnostics, payer and expert input and price testing^{2, 3}

~100,000 procedures annually

~400 accounts

\$3,000-4,500



¹⁾ Ascelia Pharma market research with Decision Resources Group, 2020. Literature on prevalence and epidemiology of kidney disease, cancer and liver metastases.



²⁾ Ascelia Pharma market access research and analyses with Revenue Reimbursement Solutions and Charles River Associates (2020), Triangle (2022) and Trinity (2022)

³⁾ Final pricing strategy is subject to Phase 3 data, payer evidence, negotiations, discounts and access strategy

⁴⁾ Ascelia Pharma analysis based on market research with Decision Resources Group, 2020

UNMET NEED RECOGNIZED IN CLINICAL PRACTICE

NSF* risk

with warnings for target population

"Those of us who have seen NSF are frightened by it... you'll get buy-in from a lot of nephrologists...".

- Head of Renal section at US university hospital (from Ascelia Pharma Advisory Board meeting)

+90%



of HCPs are concerned by issues relating to GBCAs (including NSF)

+16%



of providers have experienced GBCA-induced NSF

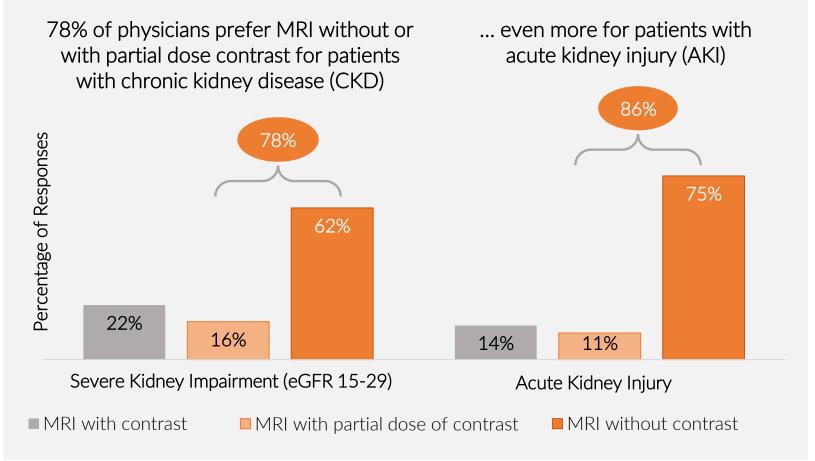
"The college [American Colleague of Radiology]...have a **growing** sense of responsibility and accountability about using these agents in high-risk patients.... our perception of which agents are "safe" has changed... this is another place where practice needed to evolve" - SPARKLE Investigator and Head of Radiology at US university hospital

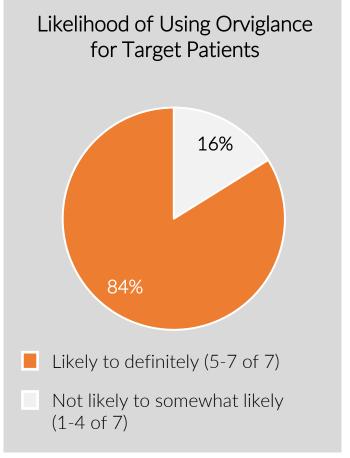
*nephrogenic systemic fibrosis





UNENHANCED MRI PREFERRED TODAY; 84% OF US PHYSICIANS LIKELY TO USE ORVIGLANCE







MOMENTUM FOR AN ALTERNATIVE TO GADOLINIUM

Deposition in brain & organs

concerns around safety for all patients

New safety category recommended for Symptoms Associated with Gadolinium exposure (SAGE), by Am. College of Rad. (2022)

Multiple-GBCA effect on body movement and mental skills study requested by the FDA (ODYSSEY, 2020)



published: 20 S doi: 10.3389/fnr

healthcare-in-europe.com

Gadolinium Deposition in Brain: Current Scientific Evidence and Future Perspectives

Bang J. Guo¹, Zhen L. Yang² and Long J. Zhang^{1,2*}

Department of Medical Imaging, Jinling Hospital, Nanjing Clinical School, Southern Medical University, Nanjii

² Department of Medical Imaging, Jinling Hospital, Medical School of Nanjing University, Nanjing, China

Water contamination

scrutiny of environmental impact

Gadolinium excreted in urine is discharged into our environment and drinking water

Future with less/no gadolinium

focus of leading gadolinium manufacturers

Low dose full-body gadolinium contrast agents pursued by GBCA players with one approved by the FDA in priority review

Completion of Phase 1 patient enrollment in full-body IV manganese-based contrast agent (GE HealthCare 2023)

Bang G. Gadolinium Deposition in Brain: Current Scientific Evidence and Future Perspectives, Mol. Neurosci., 20 September 2018.



¹⁾ Brünjes R. et al. Anthropogenic gadolinium in freshwater and drinking water systems, Water Research, Volume 182, 2020.

Macke et al. Fast and automated monitoring of gadolinium-based contrast agents in surface waters, Water Research, Volume 207, 2021.

Oluwasola et al, Gadolinium based contrast agents (GBCAs): Uniqueness, aquatic toxicity concerns, and prospective remediation. Journal of Contaminant Hydrology, Volume 250, 2022.

M. Nicholl. Seeking alternatives to gadolinium-based contrast agents. Healthcareineurope.com. July 22022

ON TRACK FOR OPTIMAL COMMERCIALIZATION

Strategic objectives for commercialization

- Optimal balance between investment required and future revenues
- Leverage established commercialization capabilities
- Maximize value with global launch strategy



Progress dialogue with potential partners





REVIEW ARTICLE

Oral Manganese Chloride Tetrahydrate: A Novel Magnetic Resonance Liver Imaging Agent for Patients With Renal Impairment

Efficacy, Safety, and Clinical Implication

Torkel B. Brismar, MD, PhD, Dominik Geisel, MD, Nikolaos Kartalis, MD, PhD, Beatrice L. Madrazo, MD, Hanna Persson Hedman, PhD, and Andreas Norlin, PhD

COVID-19 IMAGING V INFORMATION TECHNOLOGY V WOMEN'S HEALTH V RADIATION ONCOLOGY V

A New Approach to **Imaging Focal Liver Lesions in Patients With**

Reduced Kidney Function

Current magnetic resonance imaging (MRI) methods used to identify liver cancer are inadequate in identifying a potentially fatal side effect in patients with poor kidney function – nephrogenic systemic fibrosis (NSF). Alternative imaging techniques are being developed to address this clinical need

of focal liver lesions is critical for optimal management of patients with liver cancer or a range of cancers that metastasise to the liver, including colorectal, breast, and gastric cancer.
The gold-standard method for detecting focal liver lesions is contrast-enhanced MRI. However, in patients with poor kidney function, all gadoliniumbased contrast agents (GBCAs) have regulatory black box warnings, as they put those patients at risk of the severe and sometimes fatal - side effect. NSF

As patients with poor kidney function may not be able to tolerate these contrast agents, the imaging methods currently used – unenhanced MRI or non-liver specific lower-risk GBCAs significantly reduce the ability of clinicians to find and treat focal liver lesions, ultimately impacting the patient's chance of survival. This patient population, which is estimated to account for around 4% of all patients

similar imaging insights to those who undergo contrast drug-enhanced MRI.

serious and potentially life-threatening It causes sclerotic transformation and hardening of the skin, and can lead to joint contractures, and muscle and fascial fibrosis, which may lead to inner organs. NSF worsens over time results from multi system failure. The FDA database has registered 3000+
cases of NSF since 2006 (of which 24% kidney disease stage four or five to

FDA and EMA, have issued warnings about the use of GRCAs, and clinical with severe kidney impairment guidelines for GBCA administration and group III agents (see Table 1)

time to disease manifestation, and

GBCA dosing exposure vary individually

(1, 2), It should be noted that not all

Group	Classification
_	Gadodiamide, gadopentetate dimeglumine
Ш	Gadobenate dimeglumine, gadobutrol, gadoterate acid, gadoterido
Ш	Gadoxetate

NEWS | RSNA | DECEMBER 03, 2022

Study compares effect of food intake on manganese-based MRI contrast agent absorption

A study presented at RSNA 2022 evaluated the effect of food intake on the absorption and signal intensity of Orviglance, a manganese-based MRI contrast agent, and successfully concluded that image enhancement is not impacted by a light meal





Reimagine

imaging for

people with

poor kidney

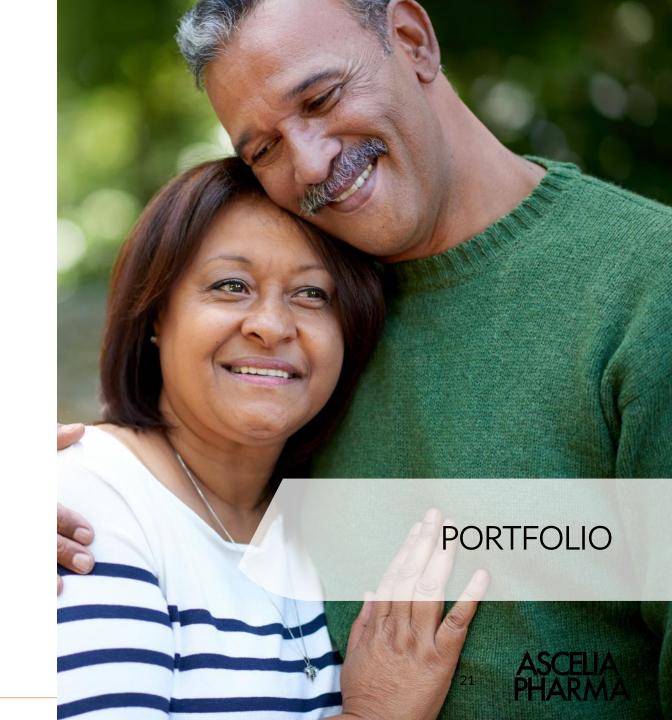
function.

ORVIGLANCE®

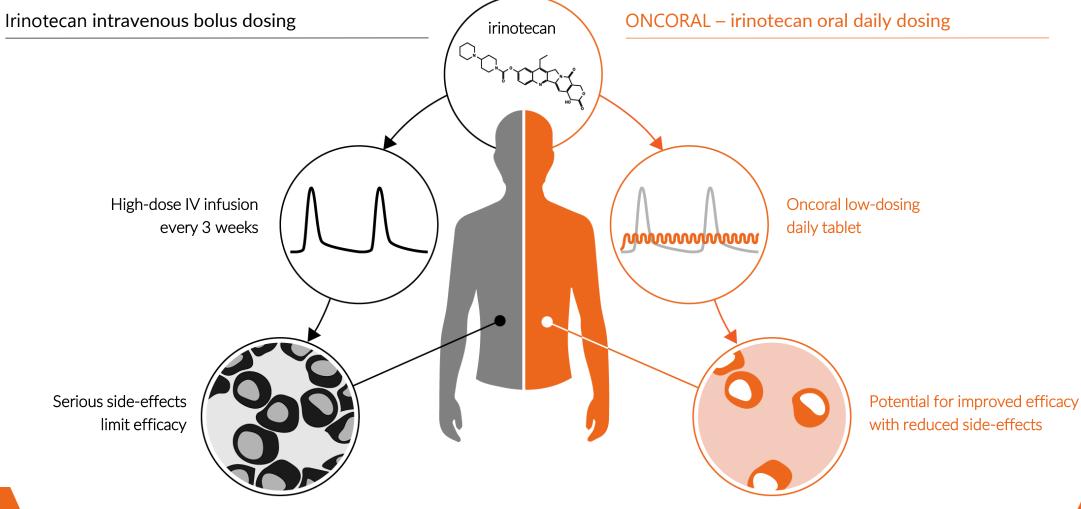
Liver diagnostic imaging drug

ONCORAL

Daily, oral chemotherapy



IMPROVING IRINOTECAN EFFICACY and TOLERABILITY

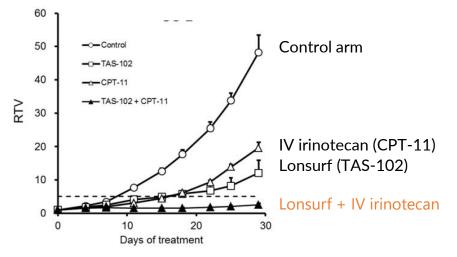


ONCORAL PHASE 2 IN GASTRIC CANCER

STRONG RATIONALE FOR GASTRIC CANCER

- High unmet need and clinically demonstrated
- Potential for synergistic effect between Lonsurf and irinotecan

Efficacy study in an animal model of gastric cancer¹ (Relative Tumor Volume, RTV)



LONSURF AND IRINOTECAN COMBINATION

RANDOMIZED CONTROLLED PHASE 2 STUDY

- ~100 patients with metastatic gastric cancer
- Study arms: Oncoral + Lonsurf vs. Lonsurf
- Endpoints: Progression Free Survival (Primary), Response Rate, PK, Safety (Secondary) and Overall Survival (follow-up)
- IND approved in the US
- To focus all resources on Orviglance, patient enrollment is not initiated until it can be done effectively

Clinical collaboration with



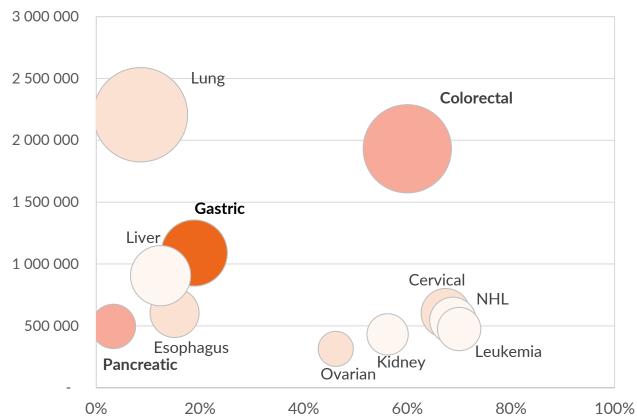
LONSURF is approved for treatment of metastatic gastric cancer and metastatic colorectal cancer



HIGH VALUE OPPORTUNITY IN GASTRIC CANCER AND EXPANSION

POTENTIAL FOR ORAL, DAILY DOSING OF IRINOTECAN³





Median 5-year Survival Rate

A WELL-ESTABLISHED CHEMOTHERAPY with recognized anti-tumor effect in solid tumors

- Current focus: Gastric cancer
 - Clinically demonstrated
 - Guidelines recognized
 - 3rd highest cancer deaths¹
 - Orphan disease (US and EU)
 - \$3-4bn market²
- Approved indications for IV irinotecan
- Indications where IV irinotecan are clinically demonstrated & guidelines recognized
- Indications where IV irinotecan are clinically demonstrated



¹⁾ International Agency for Research on Cancer (IARC, 2021)

²⁾ GlobalData - Gastric and Gastroesophageal Junction Adenocarcinoma - Global Drug Forecast and Market Analysis to 2024

³⁾ Globocan 2020, WHO, Cancer Research UK





RIGHTS ISSUE TO CAPITALIZE ON STRONG PHASE 3 RESULTS

Rights Issue overview

- Raising up to 105 MSEK
- Investment commitments and guarantees amounting to 70 MSEK
- Unit price of 5.07 SEK consisting of 3 shares and 1 warrant
- Guarantor fee of 11% in cash or 13.5% in units

Use of proceeds

- NDA submission to FDA
 - Phase 3 full Clinical Study Report, Q4 2024
 - Conclusions from FDA pre-submission meeting, Q1 2025
 - NDA submission, mid-2025
- Partnering of Orviglance
- Amortize 7.5 MSEK of convertible to Fenja Capital (Formue Nord)



OPERATING RESULT- MAINTAINED LOW OPERATING EXPENSES

Operating loss of SEK 11.3 million in Q2 2024

Slightly decreased loss (costs) compared to Q1 2024 driven by completion of SPARKLE re-evaluation

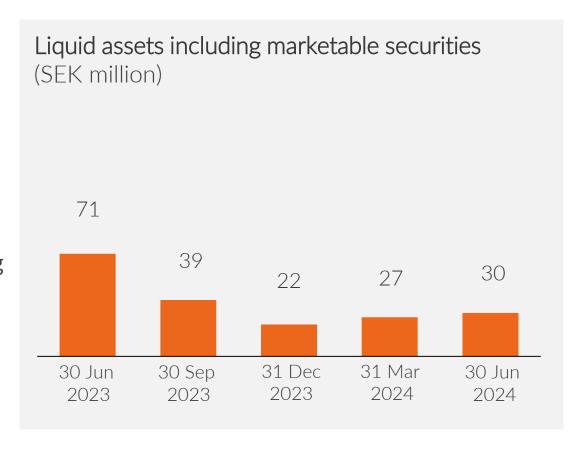




LIQUIDITY - CASH RUNWAY BEYOND NDA SUBMISSION MID-2025

Liquid assets of 30 MSEK (30 Jun 2024), including 35 MSEK fully drawn Fenja Capital financing of loan and convertibles

Runway with minimum 70 MSEK Rights Issue financing beyond NDA submission 2025





SUBSTANTIAL VALUE CREATION OPPORTUNITIES





Truptonom

Advance Orviglance to approval

Progress Orviglance commercialization readiness

Develop pipeline potential

Objectives

Timely submission and approval by the US FDA as an orphan drug with an optimal label for the use in the target population

Focused launch for well-defined patient population

Global commercialization through partners

Demonstrate Oncoral efficacy and safety in Phase 2

Expand Orviglance franchise with 2nd generation

Milestones

- Full Clinical Study Report early Q4 2024
- Conclusions from FDA presubmission meeting by Q1 2025
- NDA submission mid-2025

- Advance launch readiness
- Commercialization partnership

 Initiate Oncoral Phase 2 clinical study when financing allows



ASCELIA PHARMA

ascelia.com

