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ORPHAN
ONCOLOGY

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www.ascelia.com

Completion of Full Study Report Reinforces Successful Outcomes of SPARKLE Phase 3 Study

Q4 and Full Year Report 2024

Conference call presentation on 7 February 2025, 10:00 CET

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**ASCELIA
PHARMA**

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QUARTERLY REPORT Q4 2024 INVESTOR CONFERENCE CALL

Agenda

Recent key events

Portfolio

Financials and priorities ahead

Presenters

CEO - Magnus Corfitzen

Deputy CEO - Julie Waras Brogren



*At Ascelia Pharma, we identify, develop
and commercialize novel drugs that
address unmet needs of people
with rare cancer conditions*

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 entity in New Jersey (US)
Listed on NASDAQ Stockholm (Ticker: ACE)

Q4 2024 PROGRESS

Key events in Q4 2024

- ✦ Orvigance SPARKLE study primary results accepted as cutting-edge oral presentation at RSNA 2024
- ✦ Proposal for election of Marianne Kock as new member of the Board of Directors
- ✦ Notice of and bulletin from Extraordinary General Meeting on 30 October
- ✦ Orvigance SPARKLE data to be presented as late breaking abstract at Kidney Week 2024
- ✦ Completion of Full Study Report reinforces the successful outcomes of SPARKLE
- ✦ Two abstracts with SPARKLE data accepted for presentation at SAR congress 2025
- ✦ Patent granted in China for second generation Orvigance

Key events after the period

- ✦ Three scientific abstracts with SPARKLE Phase 3 data accepted for presentation at the ESGAR congress 2025
- ✦ Notice of Extraordinary General Meeting on 25 February 2025 to vote on an employee stock option proposal



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 ORVIGLANCE VALUE CREATION OPPORTUNITIES



Advance to approval



Secure partnering and commercialization readiness

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 with 800 MUSD annual addressable market

Partner driven global commercialization

Milestones

- ✓ Full SPARKLE Clinical Study Report early **Q4 2024**
- Conclusions from FDA meeting in **Q1 2025**
- NDA submission **mid-2025** with Ascelia Pharma and partner readiness

- Advance **launch readiness**
- Establish commercialization **partnership(s)**

ORVIGLANCE®

Liver diagnostic imaging drug

ONCORAL

Daily, oral chemotherapy

PORTFOLIO

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 mortality¹⁻³

- Colorectal cancer, metastatic breast cancer, gastric cancer

Treatments

Contrast enhanced MRI is the gold standard

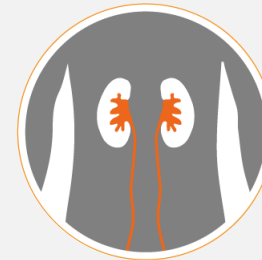


Contrast enhanced MRI

- 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 gadolinium-based 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

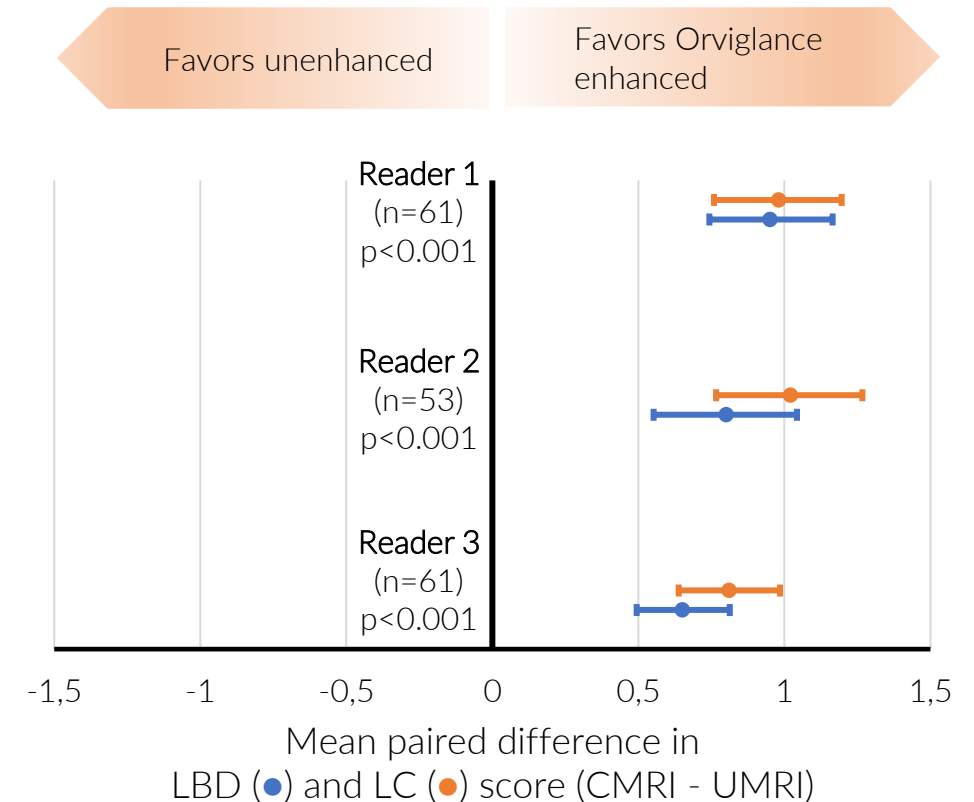
- Manganese based
- Liver specific

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

Successful Phase 3 Study

- 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 ($p < 0.001$) and high reliability of the data, including
 - For Orviglance-enhanced images*, the median boarder delineation and lesion contrast scores increased from 2.1 and 3.0 to 3.0 and 4.0 respectively across readers*
- Secondary efficacy endpoints support** primary analysis and confirm the robustness of the positive results, including
 - Detection of lesions: across all readers at least one new lesion were detected in 40-52% of patients with Orviglance***
- Common adverse events were consistent with previous studies, such as mild to moderate nausea; **no serious adverse drug reactions** were observed



Data presented as mean paired differences for matched lesions per patient for combined MRI (CMRI) and unenhanced MRI (UMRI) with 95% Confidence Intervals. Statistical evaluation by one-sided paired t-test ($\alpha = 0.025$). Total N=85, n=number of patients with matched lesions.

*Improvements compare to scores for unenhanced images on a 4-point scale (from 1 ("poor") to 4 ("excellent") pooled for all three readers, **Compared to unenhanced. Please refer to the [Q3 2024 Report presentation](#) for a more detailed summary of the SPARKLE study results

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

Orvigance 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 Orvigance 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

Clinical



Nonclinical



CMC

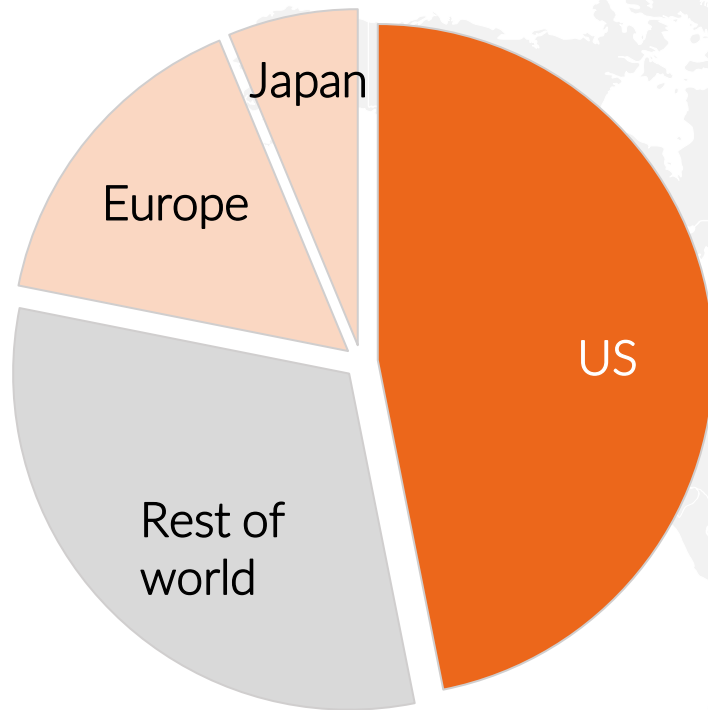


US FDA

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 meeting in 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

Sources:

- 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 College 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

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)

Water contamination

scrutiny of environmental impact

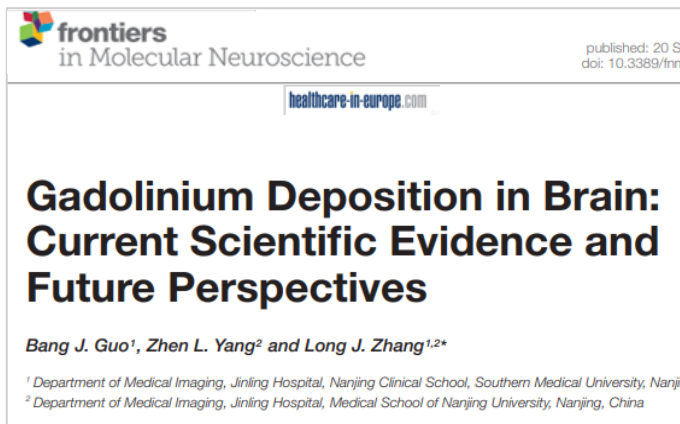
Gadolinium excreted in urine is discharged into our environment and drinking water

Future with less/no gadolinium

focus of leading gadolinium manufacturers

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

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



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

Other sources include:

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 (GBICAs): 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

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

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

Global commercialization through partners

Secure launch readiness

Establish commercial partnerships



Dialogue with potential partners progressing

RECOGNITION IN THE SCIENTIFIC COMMUNITY

SPARKLE data accepted at major conferences so far with
4 oral presentations and 3 abstract presentations

American Society of Nephrology (ASN) Kidney Week, October 2024

SPARKLE: A Multicenter, Open-Label Study to Evaluate the Safety and Diagnostic Efficacy of ACE-MBCA in Patients with Known or Suspected Focal Liver Lesions and Severe Renal Impairment

Session Information

» Late-Breaking Science Posters

October 24, 2024 | Location: Exhibit Hall, Convention Center
Abstract Time: 10:00 AM - 12:00 PM

Category: Diversity and Equity in Kidney Health

- 900 Diversity and Equity in Kidney Health

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Ascelia Pharma Announces Acceptance of SPARKLE Phase 3 Data for Presentation at the Society of Abdominal Radiology Congress 2025

Ascelia Pharma AB (publ) (ticker: ACE), a biotech focused on improving the life of people living with rare cancer conditions, today announced that two scientific abstracts with clinical data from the SPARKLE Phase 3 study with Orvigance have been accepted as an oral presentation and a scientific poster at the Society of Abdominal Radiology Congress, taking place from 16-21 February 2025 in Tucson, AZ, US.

Radiological Society of North America (RSNA), Annual Meeting, December 2024

Science Session (Value Based, Equitable and Sustainable Radiology) | M6-STCE2 ❤️

Session Type: Learning Center Theater Presentations

Monday, Dec 2 | 1:30 PM - 2:00 PM CST | 📍 LEARNING CENTER THEATER 2

SPARKLE: A MULTICENTER, OPEN-LABEL STUDY TO EVALUATE THE SAFETY AND DIAGNOSTIC EFFICACY OF ACE-MBCA IN PATIENTS WITH KNOWN OR SUSPECTED FOCAL LIVER LESIONS AND SEVERE RENAL IMPAIRMENT | M6-STCE2-3

Alvin C. Silva, MD, Presenter

Ascelia Pharma Announces Acceptance of Three Scientific Abstracts with SPARKLE Phase 3 Data at the European Society of Gastrointestinal and Abdominal Radiology Annual Meeting

Ascelia Pharma AB (publ) (ticker: ACE), a biotech focused on improving the life of people living with rare cancer conditions, today announced that two oral presentations and one scientific poster with clinical data from the SPARKLE Phase 3 study with Orvigance have been accepted for presentation at the European Society of Gastrointestinal and Abdominal Radiology (ESGAR) Annual Meeting, taking place 13-16 May in Amsterdam, Netherlands.

ORVIGLANCE®

Liver diagnostic imaging drug

ONCORAL

Daily, oral chemotherapy

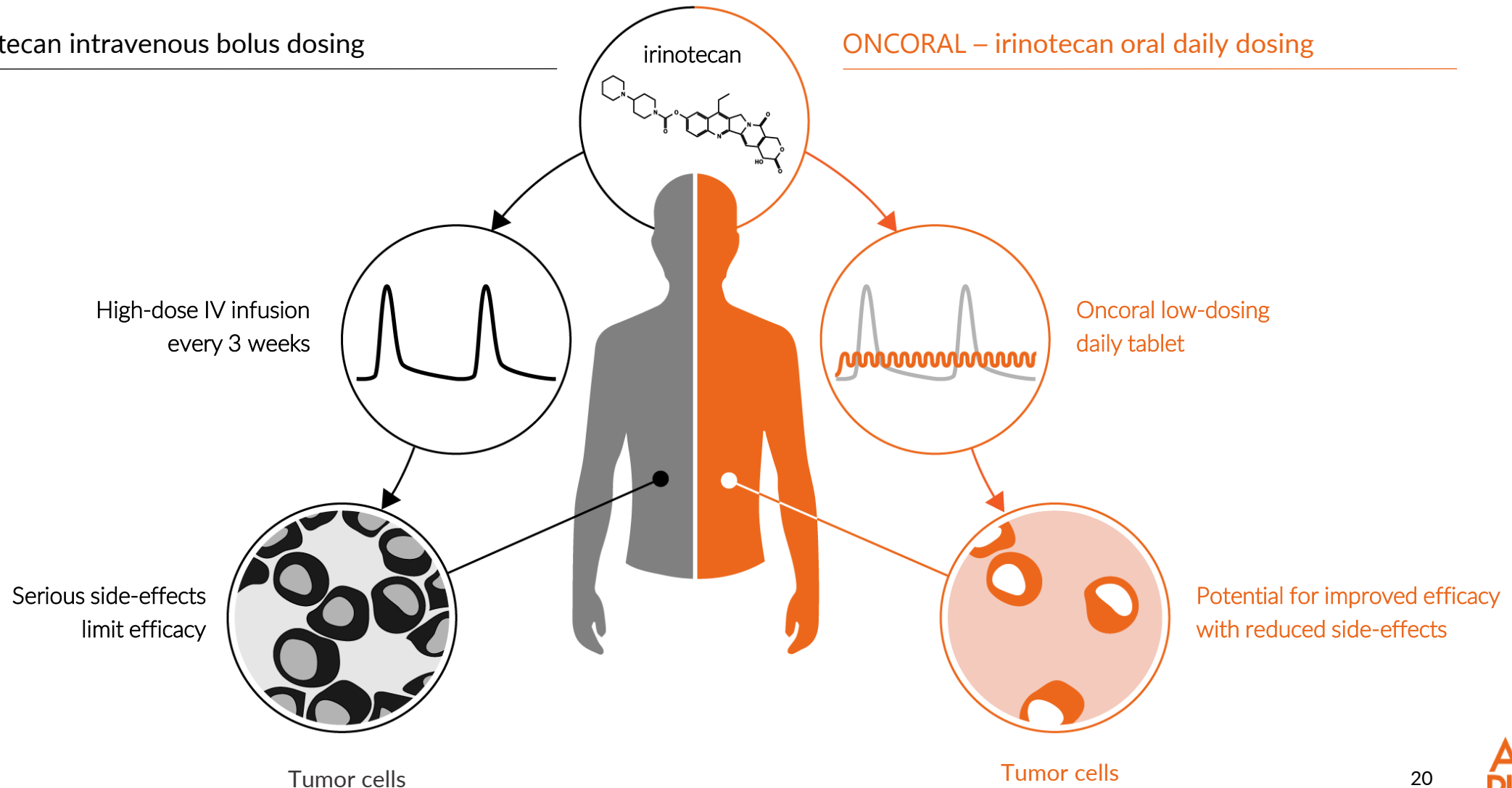
PORTFOLIO

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IMPROVING IRINOTECAN EFFICACY and TOLERABILITY

Irinotecan intravenous bolus dosing

ONCORAL – irinotecan oral daily dosing

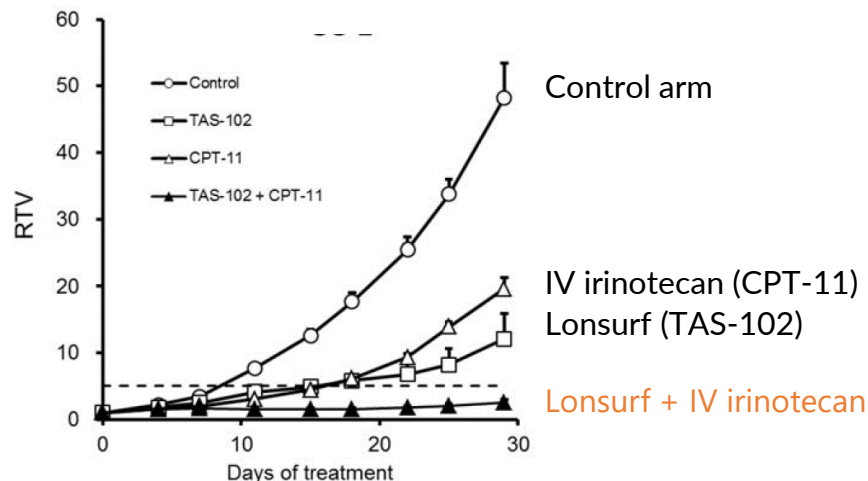


ONCORAL PHASE 2 IN GASTRIC CANCER

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 Orvigance, patient enrollment is not initiated until it can be done effectively

Clinical collaboration with

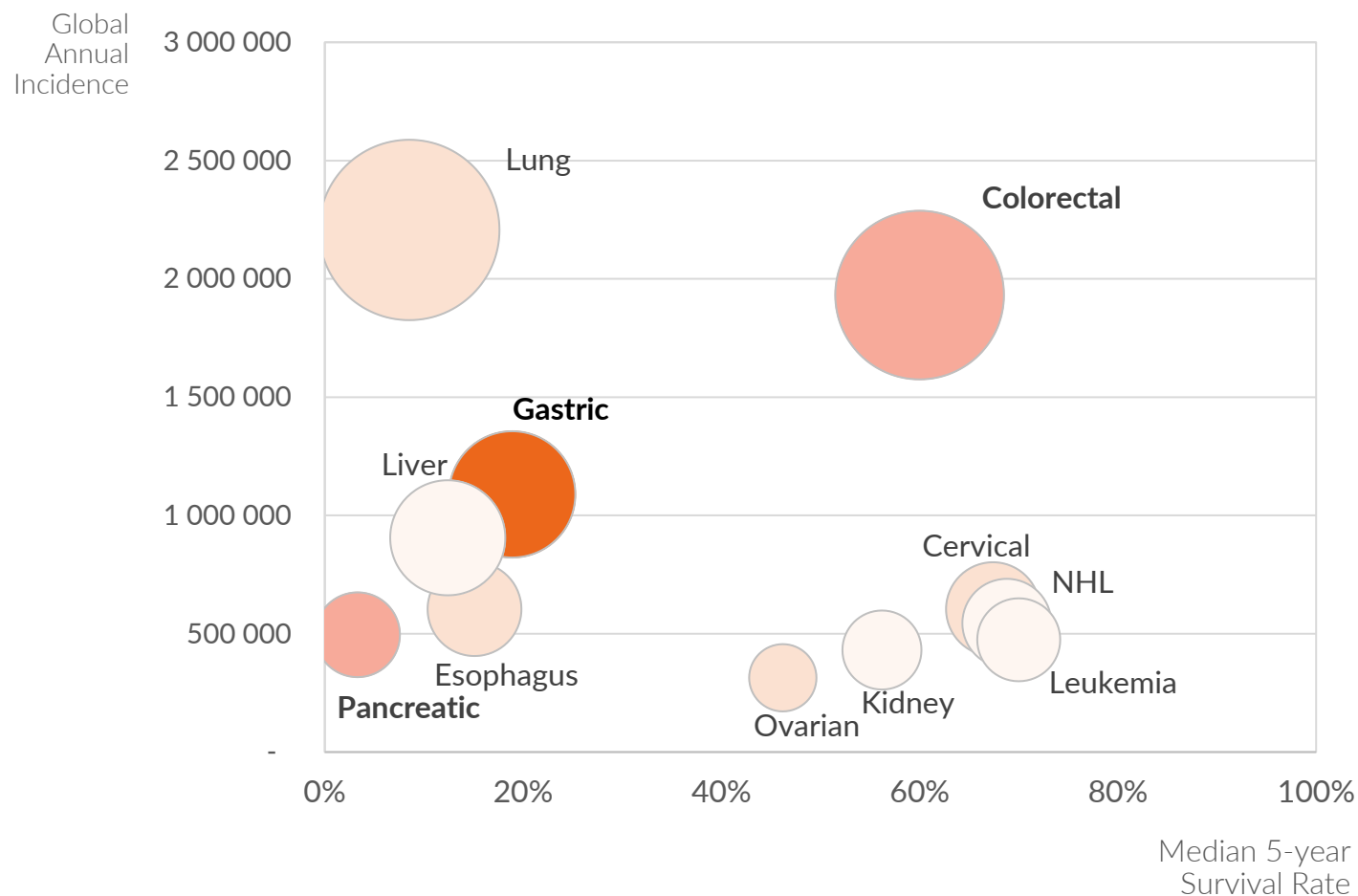


LONSURF is approved for treatment of metastatic gastric cancer and metastatic colorectal cancer

1) Nukatsuka et al: Combination Chemotherapy Using TAS-102 and Irinotecan Hydrochloride, ANTICANCER RESEARCH 35: 1437-1446 (2015)

HIGH VALUE OPPORTUNITY IN GASTRIC CANCER AND EXPANSION

POTENTIAL FOR ORAL, DAILY DOSING OF IRINOTECAN³



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

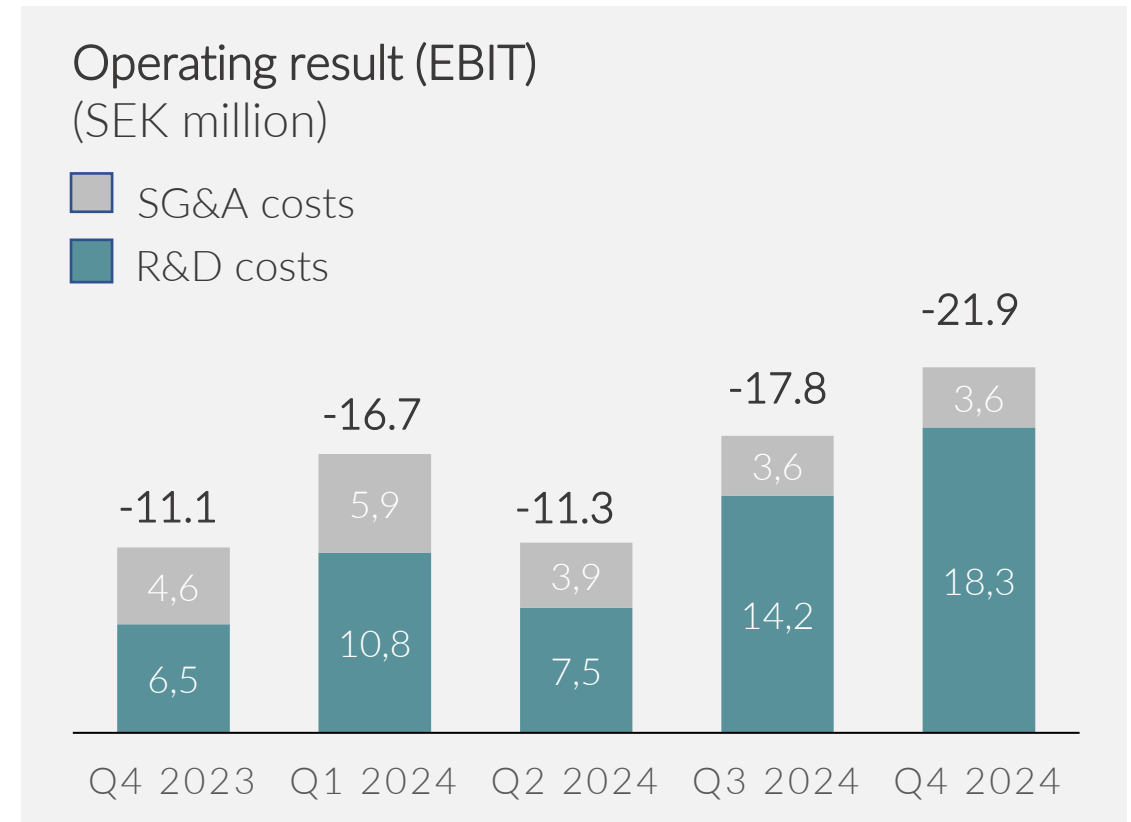


FINANCIALS & OUTLOOK

OPERATING RESULT– MAINTAINED LOW OPERATING EXPENSES

Operating loss of SEK 21.9 million in Q4 2024

Increased loss (costs) compared to Q3 2024 driven by preparations for the filing of the NDA by mid 2025



Notes:

1) Other operating income and other operating costs added to SG&A

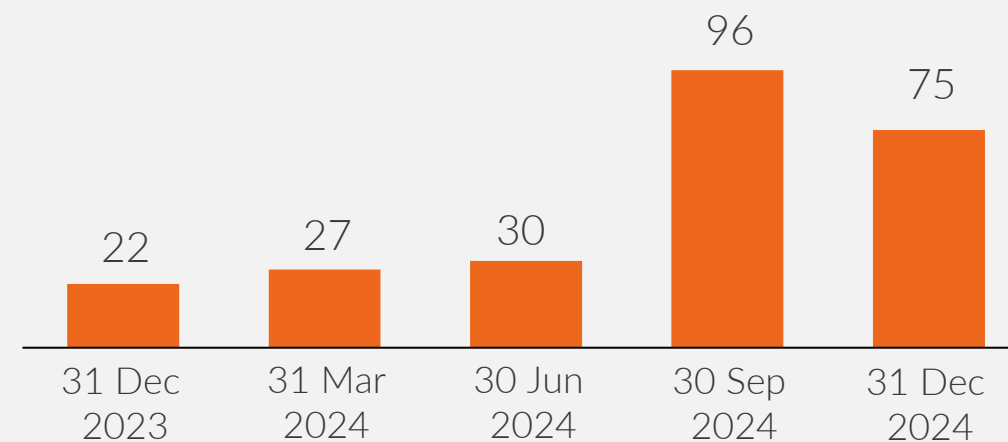
LIQUIDITY - CASH RUNWAY TO LATE 2025

Liquid assets of SEK 75 million (31 Dec 2024)

With the fully subscribed Rights Issue of SEK 105 million in Q3 2024, the Company has a **runway to late 2025; well beyond NDA submission**

This cash runway excludes the repayment of the remaining SEK 27.5 million loans to Fenja, but can be extended significantly with financing from partnering and warrants. The proceeds from the issued TO 1 series warrants alone can provide up to SEK 70 million

Liquid assets including marketable securities
(SEK million)



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- Advance **launch readiness**
- Establish commercialization **partnership(s)**

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