



# ASCELIA PHARMA

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**WEBCAST:**  
10 February 2022, 10:00AM CET

Link webcast:  
[Ascelia Pharma Q4 Report 2021  
\(streamfabriken.com\)](https://streamfabriken.com)

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## PRESENTATION OF Q4-2021 REPORT

*Present from Ascelia Pharma:*

CEO Magnus Corfitzen | CFO Kristian Borbos  
VP R&D Andreas Norlin | CCO Julie Waras Brogren

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# COMPANY OVERVIEW



TO IMPROVE THE LIFE OF PEOPLE LIVING  
WITH CANCER BY OFFERING BETTER  
TREATMENT OPTIONS

## ADVANCING ORPHAN ONCOLOGY

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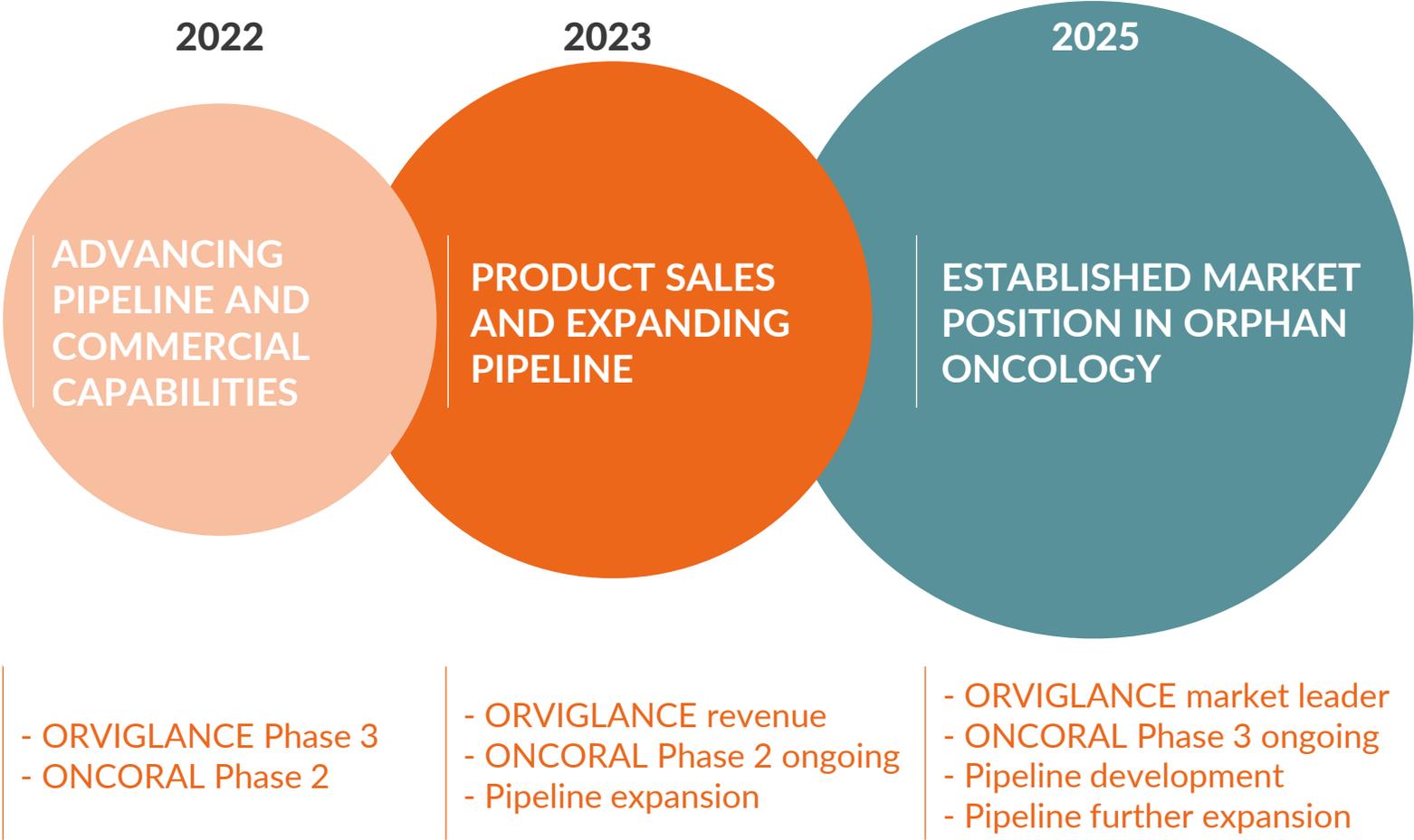
- Identify, develop and commercialize novel drugs that address unmet needs in rare cancers
- Two drugs in advanced clinical development
  - **ORVIGLANCE (MANGORAL)** – in global Phase 3; FDA Orphan Drug Designation; U.S. launch expected H2 2023
  - **ONCORAL** – Starting Phase 2 in 2022

## BUILDING GLOBAL CAPABILITIES

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- Financed into 2023
- Based in Malmö (Sweden) & Woodbridge, NJ (US)
- Listed on NASDAQ Stockholm (Ticker: ACE)

# BUILDING VALUE



# RECENT KEY EVENTS

## Key events Q4-2021

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- Oct** Food Effect Study with Orvigance successfully completed
- Dec** Strong results from Orvigance comparison study vs. gadolinium contrast agent presented at the world's largest radiology conference RSNA
- Dec** FDA approves IND application for Oncoral clinical development



# ORVIGLANCE – FOOD EFFECT STUDY SUCCESSFULLY COMPLETED

## Last Patient Last Visit in Food Effect Study (part of the registration package for Orviglance)

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- Crossover study in 24 healthy volunteers in fasting condition versus two fed conditions (snack or full meal)
- Study objectives include investigating food effects on Orviglance PK, PD and safety profile
  - Data will provide guidance on fasting requirements before Orviglance administration
- Preliminary data indicate that Orviglance was well tolerated in the study – final results expected Q1-2022
- A potential removal of the current fasting requirement could further improve the convenience and ease the administration of Orviglance in clinical practice

# ORVIGLANCE – STUDY VS. GADOLINIUM PRESENTED AT RSNA

## ORVIGLANCE vs. GADOLINIUM CONTRAST AGENT

- Crossover study (n=20) where Orviglance was compared against a liver specific gadolinium contrast agent (Multihance)
- Compared visualization of lesions and number of detected lesions in the liver

## EFFICACY PARAMETERS AND RESULTS

Efficacy parameter	Results from three independent blinded readers
1. Number of lesions detected	3 (out of 3) detected more lesions with Orviglance
2. Size of the detected lesions	3 (out of 3) saw smaller lesions with Orviglance
3. Lesion border delineation	2 (out of 3) reported higher scores for Orviglance
4. Lesion contrast compared to liver	2 (out of 3) reported higher scores for Orviglance

Note: Please observe that the results are not statistically sufficient to conclude that Orviglance is superior to gadolinium



### CONCLUSIONS

- Robust evidence of the diagnostic value that Orviglance offers
- Important value message to healthcare payers and providers
- Strengthens the data package to regulatory authorities

# ONCORAL – FDA APPROVAL OF IND APPLICATION

## Approved IND application for Oncoral clinical trial

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- In December 2021, FDA approved Investigational New Drug (IND) application to start the Phase 2 study with Oncoral
- The initial portion of the planned global Phase 2 study will be conducted at hospitals in Europe, whereas the subsequent randomized part will also include US sites
- The Phase 2 study will include around 100 patients with metastatic gastric cancer
- First patient visit is expected in Q2 2022 / Q3 2022



## PORTFOLIO

### ORVIGLANCE (MANGORAL)

Liver diagnostic drug in ongoing Phase 3

### ONCORAL

Daily oral chemotherapy starting Phase 2

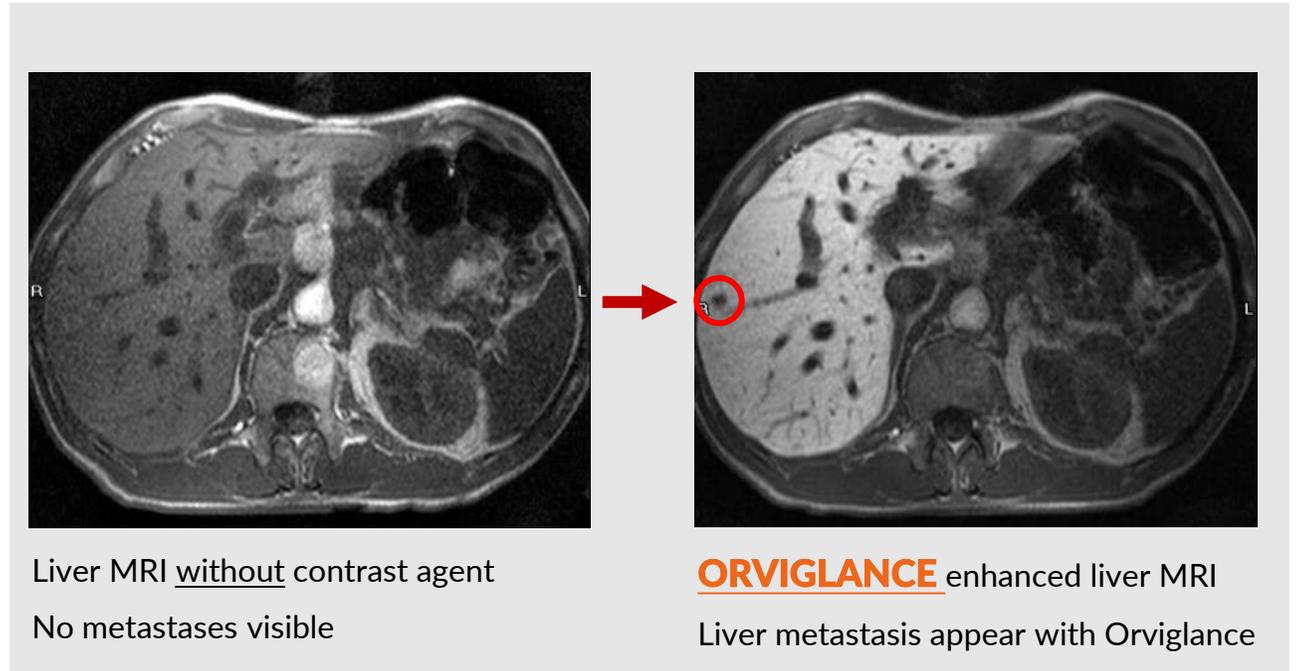
# ORVIGLANCE – PHASE 3 LIVER MRI CONTRAST AGENT

## NOVEL LIVER MRI CONTRAST AGENT

- Diagnostic drug for use in liver MRI scan to detect cancer
- Targeting patients at risk of potentially fatal side-effect from the current contrast agents on the market
- \$500-600 million addressable market with Orviglance as the only gadolinium-free agent

## SOLID PROGRESS

- Strong clinical Phase 2 results (p-values <0.0001)
- Ongoing Global Phase 3 study
- Orphan Drug Designation from FDA



# ORVIGLANCE PHASE 1 & 2 RESULTS (6 STUDIES)

Consistent strong efficacy readout and safety profile

## Blind read study of all images vs. unenhanced MRI

(178 persons)

- Significantly improved MRI
- 33% more lesions
- **Lesion visualization**  
Delineation (border sharpness): **p-value <0.0001**  
Conspicuity (contrast vs. background): **p-value <0.0001**

## Re-read study vs. gadolinium contrast agent (GBCA)

(20 patients)

- ORVIGLANCE lesion visualization as effective as GBCA  
(2 out of 3 readers favoured Orviglance)

Proceed into Phase 3

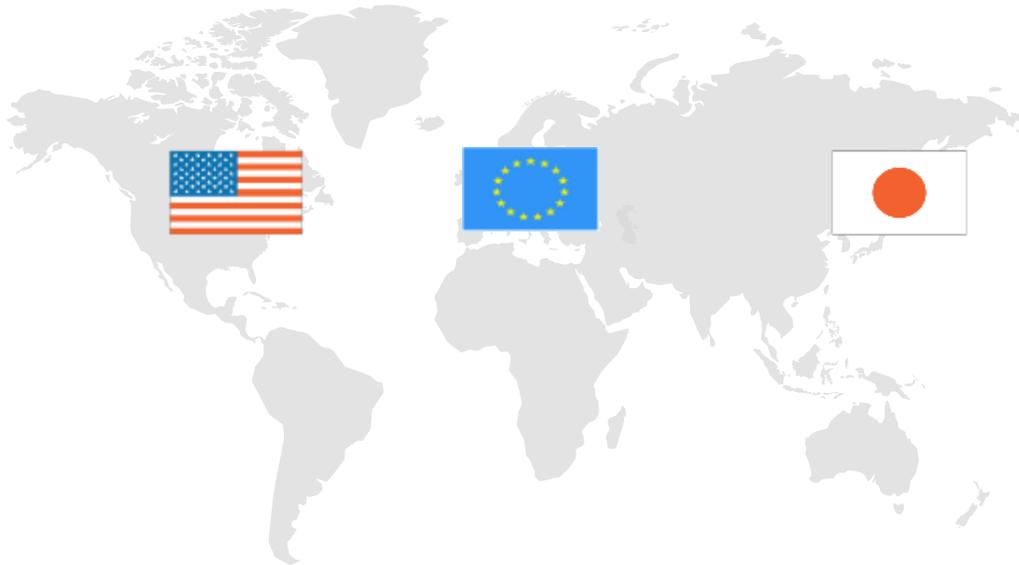
# ORVIGLANCE ONGOING PHASE 3 STUDY – SPARKLE

<p>Patients</p> 	<ul style="list-style-type: none"><li>• Global study, 200 patients</li><li>• Known or suspected focal liver lesions and severe renal impairment</li><li>• Protocol amended to include patients on hemodialysis and patients with moderate hepatic impairment</li></ul>	<p>Status update: US, Europe, Latin America 40+ sites increasing to over 50 sites</p>
<p>Comparator</p> 	<p>Unenhanced MRI + ORVIGLANCE MRI vs. Unenhanced MRI</p>	<p>No randomization – each patient as own control</p>
<p>Endpoint</p> 	<p>Lesion visualization</p> <ul style="list-style-type: none"><li>• Lesion border delineation</li><li>• Conspicuity</li></ul>	<ul style="list-style-type: none"><li>• Same endpoints as in Phase 2</li><li>• Same endpoints as for approved gadolinium agents</li></ul>
<p>Follow-up</p> 	<p>Less than a week</p>	<p>Expected pivotal study patient enrollment: H1 2022</p>

# ORVIGLANCE MARKET \$500-600 MILLION ANNUALLY

## \$500-600M ADDRESSABLE MARKET IN US, EU AND JAPAN

- Ascelia Pharma to commercialize in the U.S
- RoW commercialization with partners



### DRIVERS

- Patients with suspected primary liver cancer or liver metastases and severe kidney impairment (~4%)
- Actual imaging procedures (real-world data)<sup>1</sup>
- Payer and expert input (+75 stakeholders)<sup>2</sup>

### UPSIDES

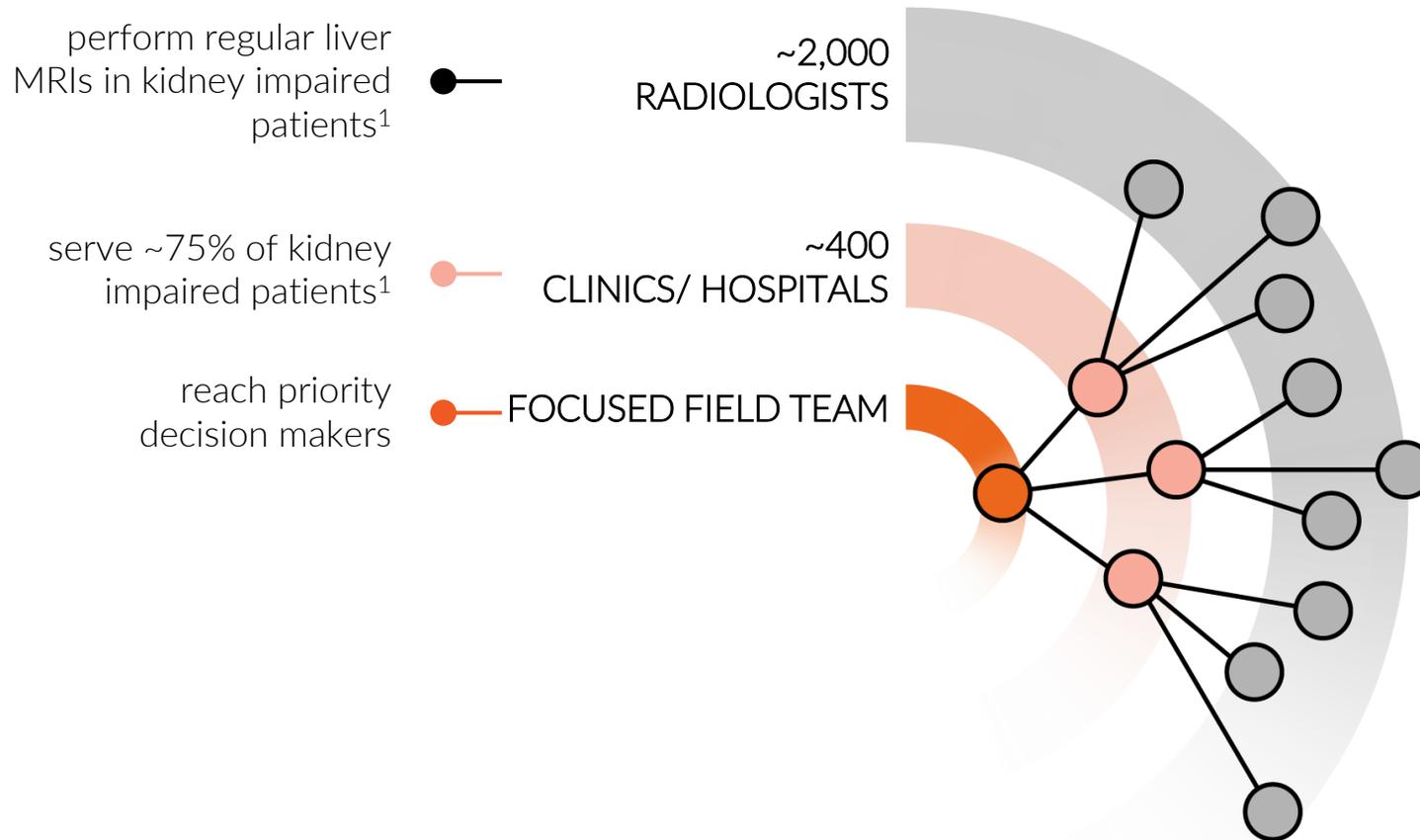
- Other markets, e.g., China
- Annual growth of 4-5%

Sources:

1) Ascelia Pharma market research with Decision Resources Group, 2020

2) Ascelia Pharma market research and analyses with Revenue Reimbursement Solutions and Charles River Associates, 2020

# CAPTURING US MARKET VALUE WITH ASCELIA'S TEAM



## BUILDING ASCELIA U.S. TEAM

New Jersey office (up to 40 FTEs at launch)

Cambrex manufacturing partner in New Jersey

## BUILDING OUT U.S. FOOTPRINT

SPARKLE Phase 3 study 13+ US Sites including Stanford, Mass. General, Duke University, UCLA Medical Center

Sources:

1) Ascelia Pharma market research with Decision Resources Group, 2020



## PORTFOLIO

ORVIGLANCE (MANGORAL)

Liver contrast agent in ongoing Phase 3

**ONCORAL**

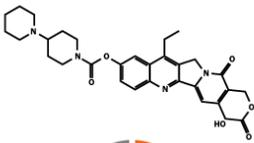
Daily oral chemotherapy starting Phase 2

# IMPROVING IRINOTECAN EFFICACY and TOLERABILITY

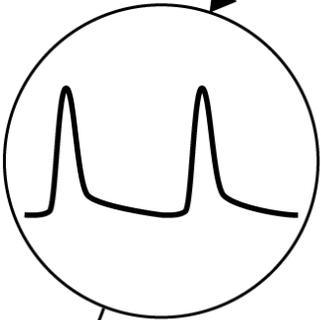
**Irinotecan** intravenous bolus dosing

**ONCORAL** – irinotecan oral daily dosing

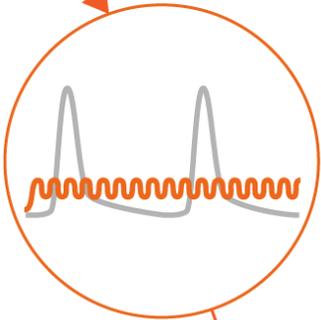
irinotecan



High-dose IV infusion every 3 weeks



Oncoral low-dosing daily tablet

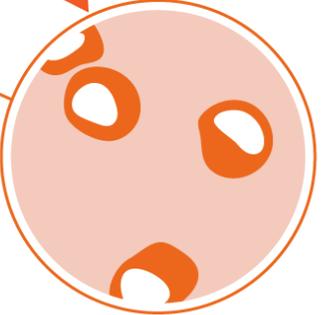


Serious side-effects limit efficacy



Tumor cells

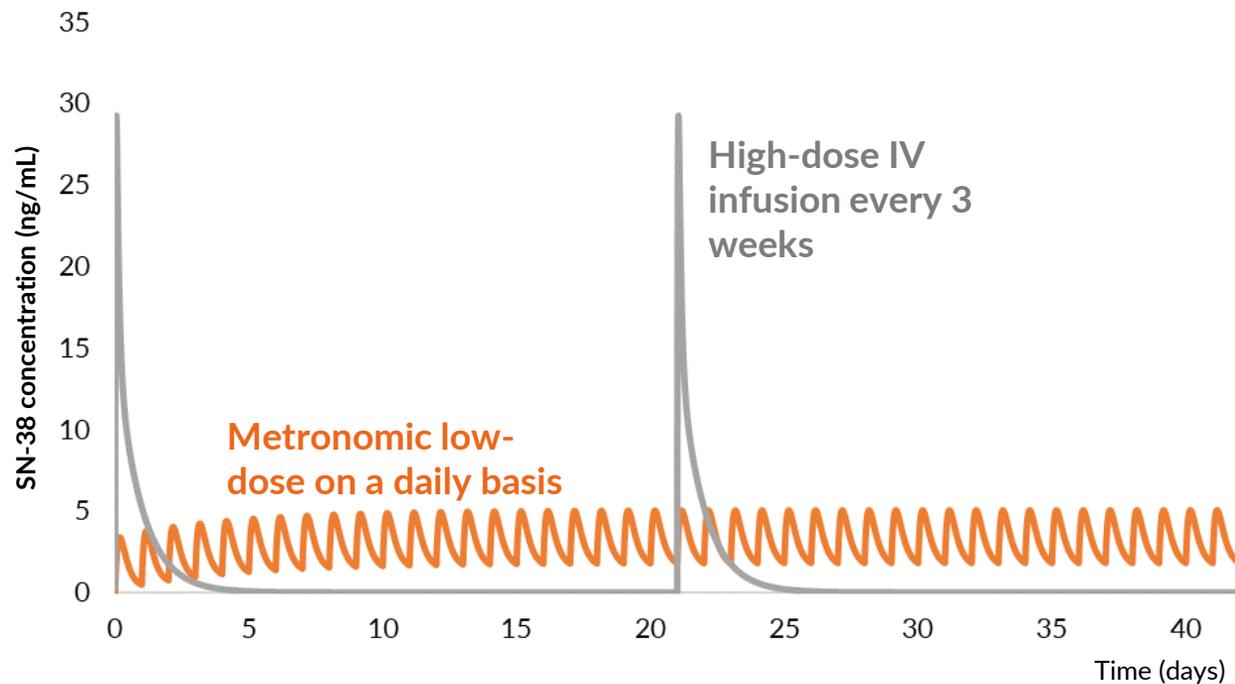
Potential for improved efficacy with reduced side-effects



Tumor cells

# ONCORAL PHASE 1: ENCOURAGING SAFETY PROFILE

## PLASMA LEVELS OF IRINOTECAN



Source: Simulation of Oncoral vs. IV Camptosar performed by Pkxpert AB

## Oncoral Phase 1 results

- Well tolerated, no unexpected side-effects
- Hematological toxicities mild-moderate (grade 1 or 2)<sup>4</sup>
- Efficacy: Stable disease even in patients previously treated with IV irinotecan

### Infrequent high-dose IV irinotecan

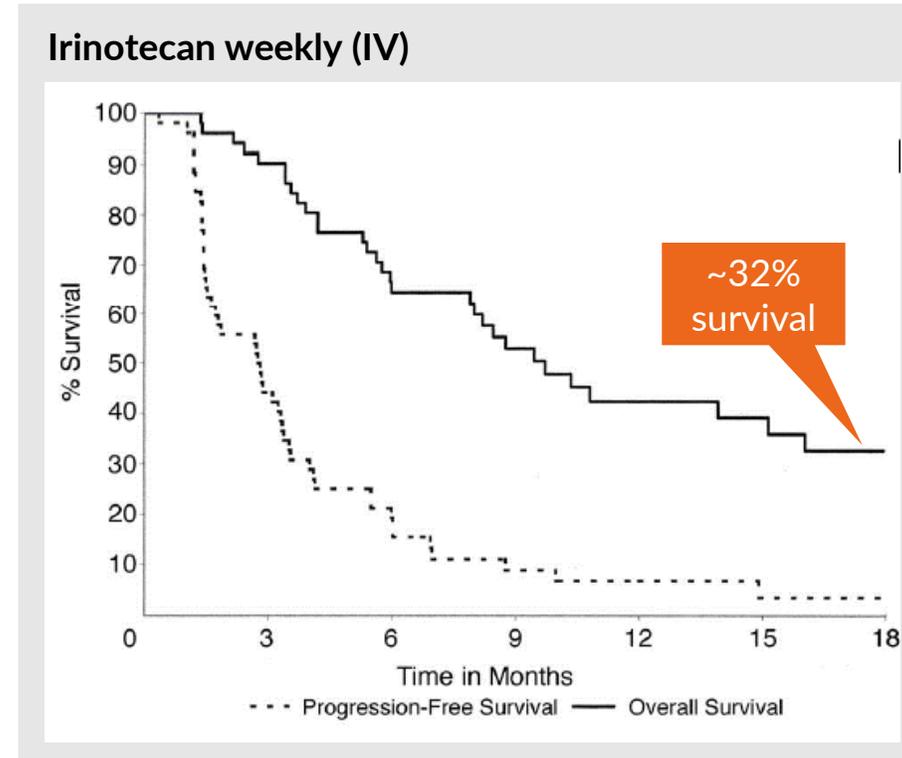
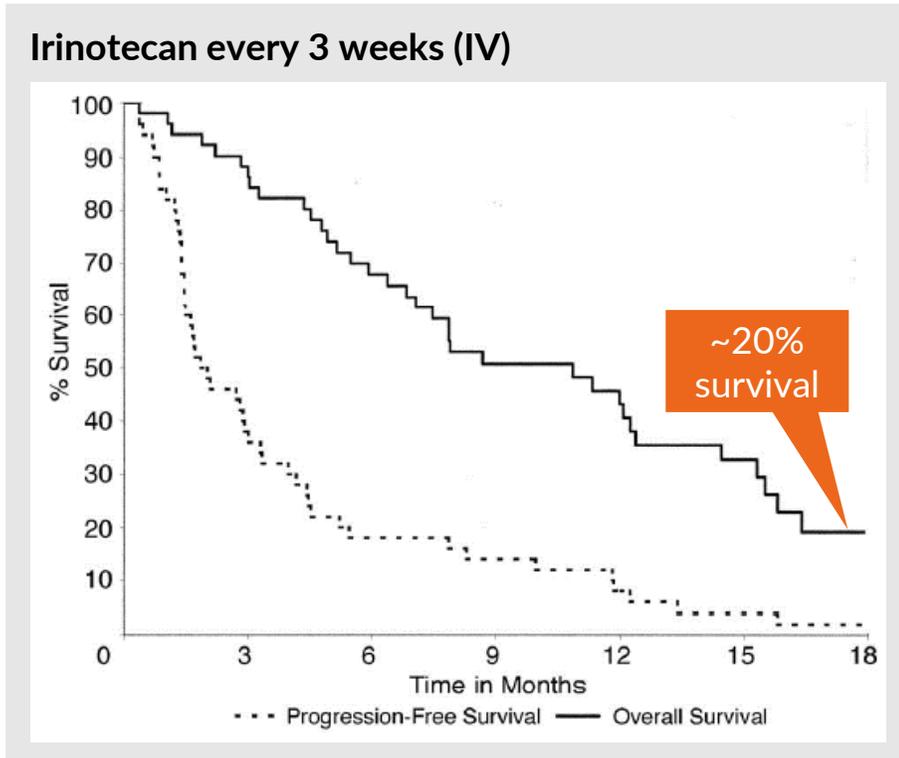
Gastrointestinal and hematological side effects, ~30% severe or life-threatening (grade 3 or 4)<sup>1</sup>

### Frequent (metronomic) low-dose irinotecan

- Several studies show improved tolerability<sup>2,3</sup>
- Daily dosing – adjust quickly if acute toxicity

# IMPROVING IRINOTECAN **EFFICACY** BY FREQUENT LOW DOSING

Overall survival: Improved from 20% (dosing every third week) to 32% (weekly dosing)<sup>1</sup>



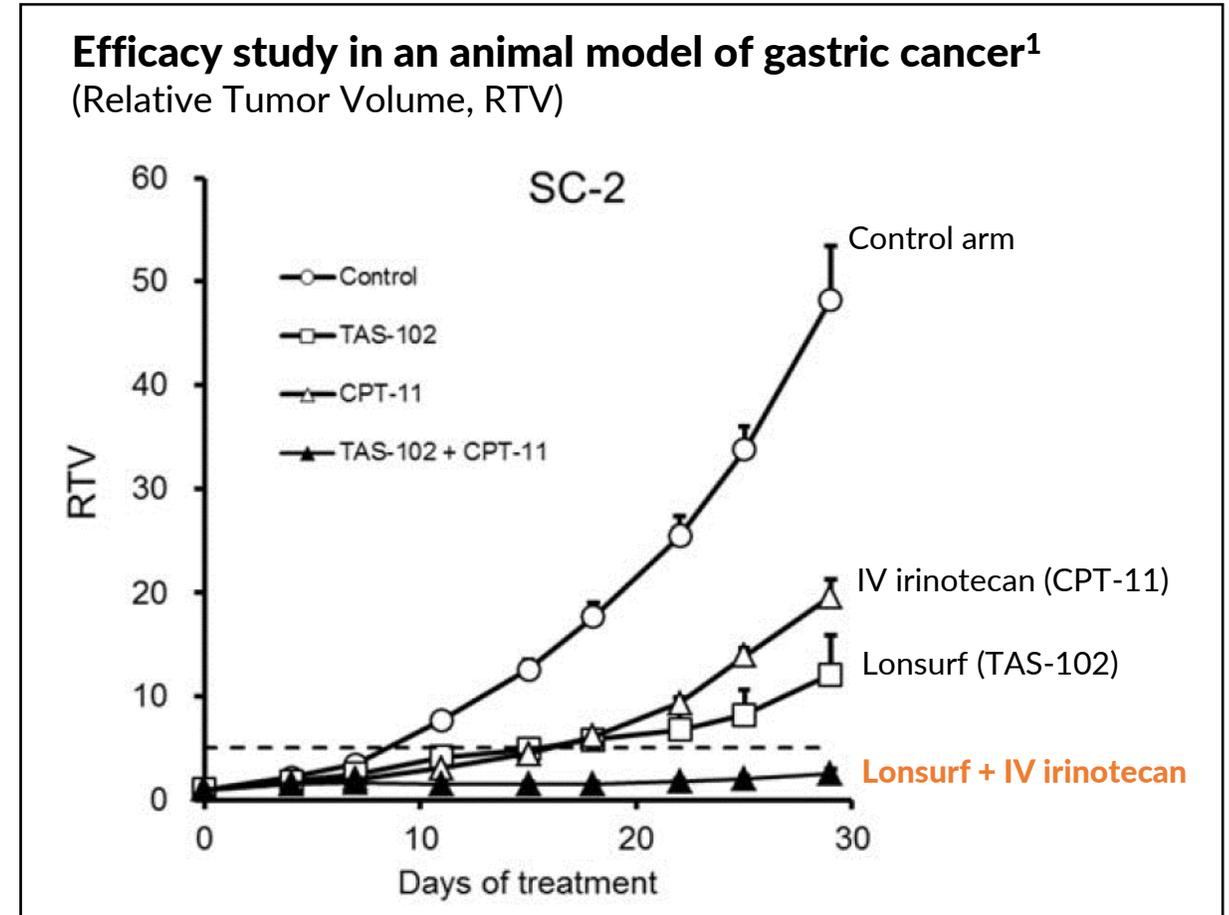
Study in patients with metastatic refractory breast cancer, N=103

1) Perez et al. J Clin Oncol 2004: Randomized Phase II Study of Two Irinotecan Schedules for Patients With Metastatic Breast Cancer Refractory to an Anthracycline, a Taxane, or Both

# ONCORAL PHASE 2 IN GASTRIC CANCER

## STRONG RATIONALE FOR GASTRIC CANCER

- Clinical guidelines support efficacy of irinotecan
- Potential for Orphan Drug Designation
- Potential for synergistic effect between Lonsurf and irinotecan



# STUDY DESIGN AND CLINICAL COLLABORATION

## STUDY DESIGN (ALL-ORAL COMBINATION STUDY)

<b>Patients</b> 	<ul style="list-style-type: none"><li>• Around 100 patients</li><li>• Metastatic gastric cancer</li><li>• Randomized controlled, multicenter/multinational</li></ul>
<b>Comparator</b> 	Oncoral + Lonsurf vs. Lonsurf
<b>Endpoints</b> 	<b>Primary:</b> Progression Free Survival <b>Secondary:</b> Response rate, PK, Safety and Overall Survival data in a follow up analysis
<b>Study period</b> 	2022* - 2024

\*Study start approval obtained in Dec 2021 (IND approval)

## CLINICAL COLLABORATION WITH TAIHO ONCOLOGY

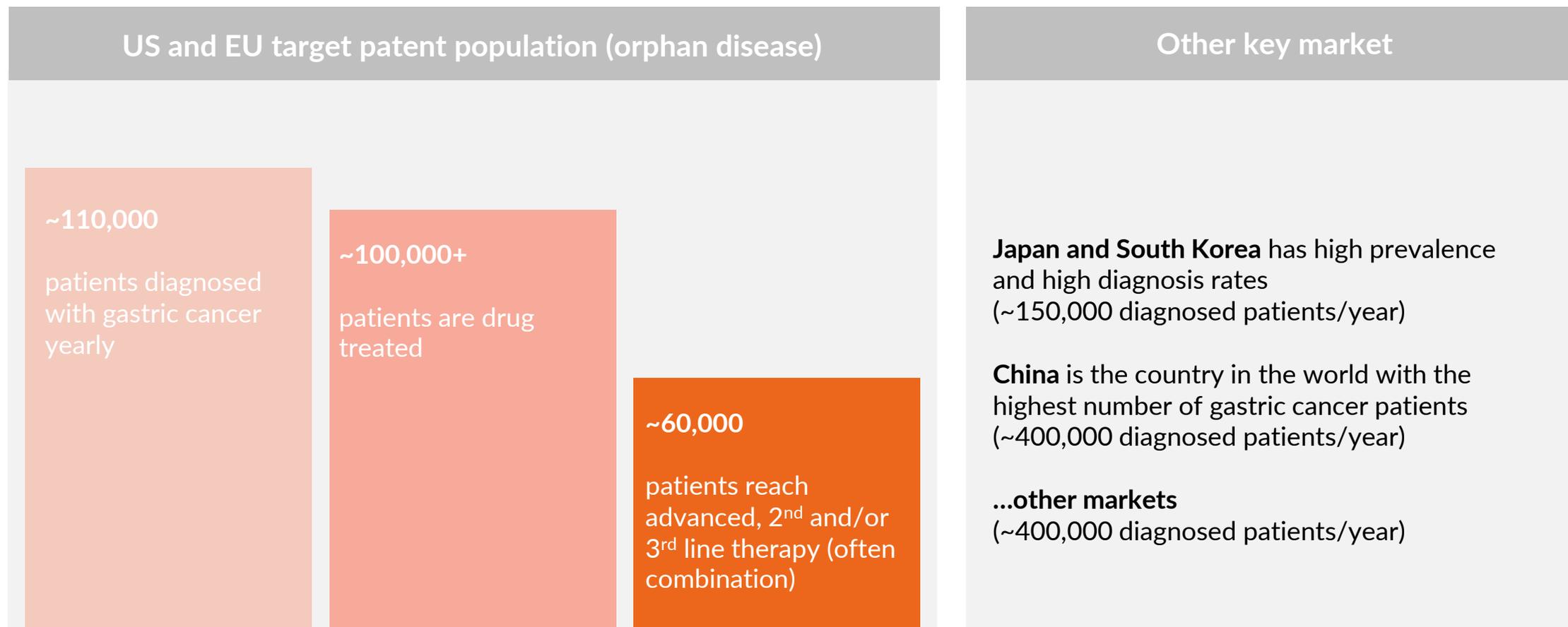
- Clinical collaboration with Taiho Oncology Inc. (part of Otsuka Group)
- Taiho Oncology Inc. will supply Lonsurf as well as provide scientific expertise for the study
- Depending on the results, the collaboration may be extended for further development
- Ascelia Pharma retains full development and commercialization rights to Oncoral

### Clinical collaboration with



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

# GASTRIC CANCER – A \$3BN+ MARKET OPPORTUNITY

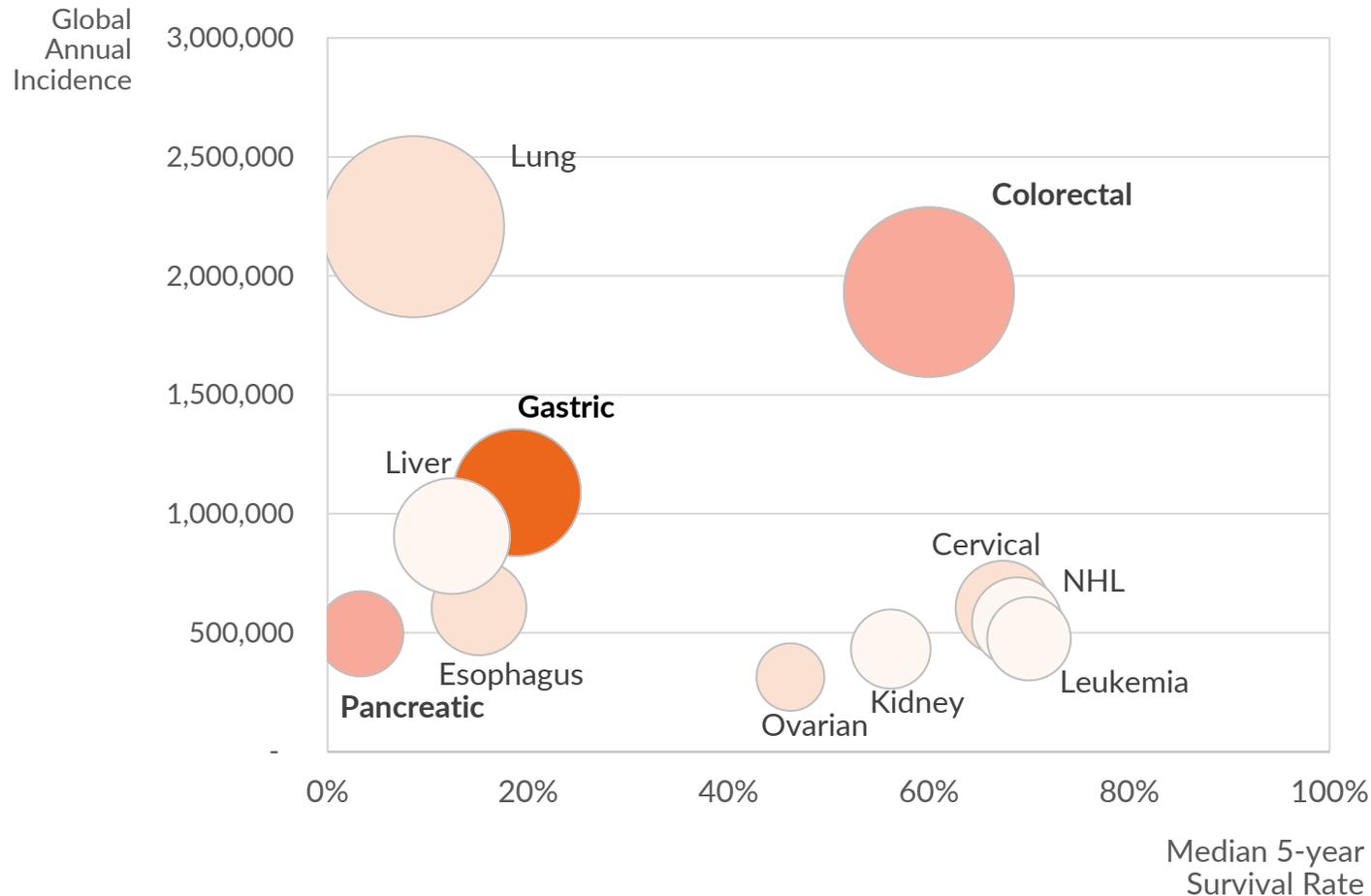


Sources:

International Agency for Research on Cancer (IARC, 2021, input from key opinion leaders and Ascelia analysis)  
GlobalData - Gastric and Gastroesophageal Junction Adenocarcinoma – Global Drug Forecast and Market Analysis to 2024

# HIGH VALUE OPPORTUNITY IN GASTRIC CANCER AND EXPANSION

## POTENTIAL FOR ORAL, DAILY DOSING OF IRINOTECAN<sup>3</sup>



- **Current focus: Gastric cancer**
  - 3<sup>rd</sup> highest cancer deaths<sup>1</sup>
  - Orphan opportunity (U.S. and EU)
  - \$3-4bn market<sup>2</sup>
  
- Approved indications for IV irinotecan infusions
  
- Indications for which IV irinotecan infusions are clinically demonstrated & NCCN recognized
  
- Indications for which IV irinotecan infusions 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

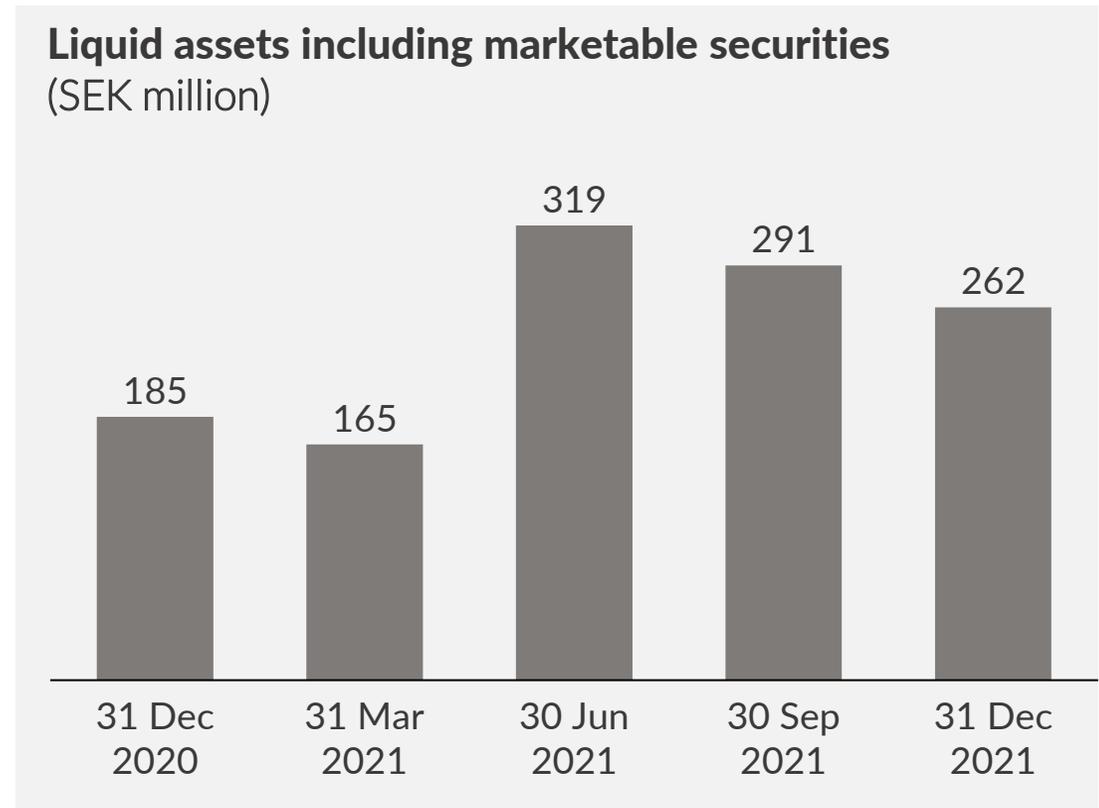
# FINANCIALS AND PRIORITIES



# FINANCIAL HIGHLIGHTS Q4 2021 – LIQUIDITY POSITION

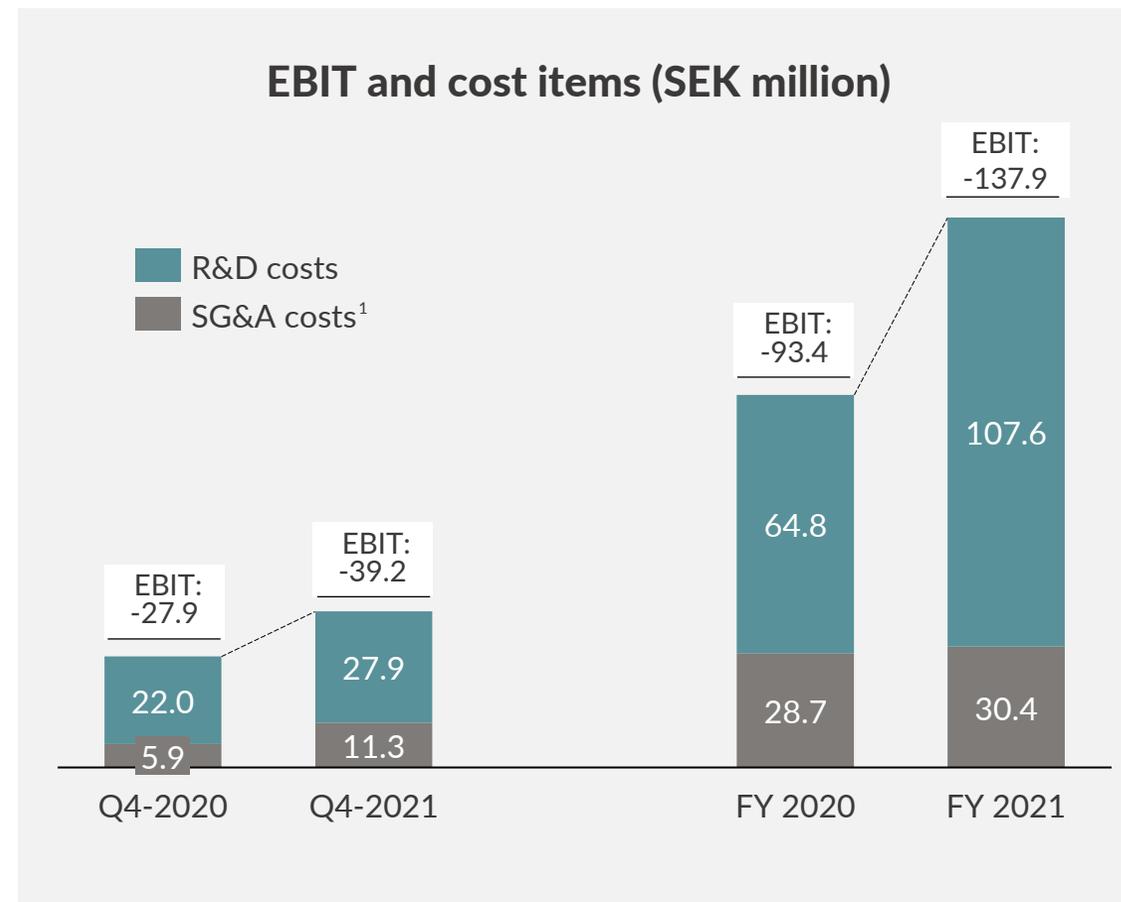
## Solid liquidity position:

- Liquid assets of 262 MSEK (\$29 million) by 31 Dec 2021
- Quarterly burn rate in FY 2021 of 30-35 MSEK (\$3.5 million)
- Current cash position provides financing into 2023



# FINANCIAL HIGHLIGHTS Q4 2021 – OPERATING RESULTS

- Increased operating loss y/y mainly driven by higher R&D activity for Orvigance Phase 3 study:
  - Clinical development
  - Manufacturing preparations
- Also higher R&D costs y/y due to Oncoral Phase 2 preparations



Notes:

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



## PRIORITIES AND KEY MILESTONES

- Complete Orvigance Phase 3 patient enrollment (expected H1-2022)<sup>1</sup>

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- Prepare Orvigance launch (planned for H2-2023)<sup>1</sup>

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- Oncoral Phase 2 study (first patient visit expected Q2/Q3 2022)<sup>1</sup>

1) Timelines incorporate the currently assessed impact from Covid-19. An extended Covid-19 situation may further affect timelines.

# ASCELIA PHARMA

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