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ADVANCING  
ORPHAN  
ONCOLOGY

# PRESENTATION OF Q2-2023 REPORT

*Presenters from Ascelia Pharma:*

CEO Magnus Corfitzen | Deputy CEO & CCO Julie Waras Brogren  
CSO Andreas Norlin | CFO Déspina Georgiadou Hedin

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

# ASCELIA PHARMA – HIGHLIGHTS

## 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** – Phase 3 patient enrollment completed; FDA Orphan Drug Designation
  - **ONCORAL** – Ready for Phase 2

## BUILDING GLOBAL CAPABILITIES

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

# RECENT KEY EVENTS

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## Key events in Q2-2023

- Hepatic impairment study accepted for presentation at major radiology and liver conferences
- Ascelia Pharma presented Orviglance hepatic impairment data and hosted a Q&A with liver imaging experts at the 2023 ESGAR annual meeting

## Key events after Q2-2023

- Re-evaluation required after intra-reader inconsistency in scoring of images from phase 3 study SPARKLE
- Clarification that images were not read and scored properly







# RE-EVALUATION REQUIRED TO REACH RESULTS

## High Intra-Reader Variability

- As per FDA guidance, a pre-defined number of patients were evaluated twice, which showed a high level of variability in the evaluation of images by some readers
- A re-evaluation of all images by a new group of independent radiology readers is required

## Plan Ahead

- All activities and resources will now be focused on the re-evaluation
- Ascelia sees no need for enrollment of more patients or an additional clinical study
- Cost-saving initiatives are taken
- A timeline and financial implications for the re-evaluation will be presented by mid-September



## PORTFOLIO

### ORVIGLANCE

Liver diagnostic drug in ongoing Phase 3

### ONCORAL

Daily oral chemotherapy ready for Phase 2

# ORVIGLANCE PHASE 3, SPARKLE, SUCCESSFUL IF 2 OF 3 READERS REACH SIGNIFICANCE

## SPARKLE CLINICAL STUDY

	Number of patients	Liver lesion types*	Primary endpoint	Image evaluation by readers	Superior to unenhanced	Statistical significance
SPARKLE – Phase 3 Study	85	Known or Suspected Lesion  (Metastases, primary tumors, benign lesions)	Co-primary: Border Delineation  Lesion Contrast	Reader 1	?	P<x
				Reader 2	?	P<x
				Reader 3	?	P<x

\* Apart from the difference in population heterogeneity, other differences between P004A Re-read and SPARKLE includes e.g., dose and MR hardware/software technology

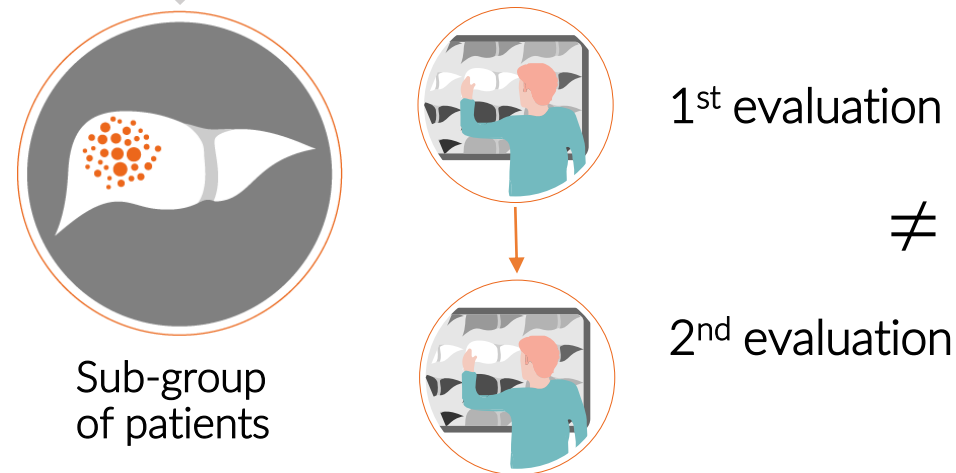
# UNRELIABLE MEASUREMENTS - EFFICACY NOT EVALUABLE

- Two readers with high level of intra-reader variability
- High intra-reader variability means the scorings are unreliable
- Unreliable scoring cannot be used to evaluate the effect
- All clinical data has been collected and no further patient enrollment is needed

SPARKLE  
CLINICAL  
STUDY

Unenhanced and Orvigance  
enhanced images from 85 patients

## Intra-Reader Variability Assessment





# ORVIGLANCE – FILLING AN UNMET NEED IN LIVER MRI

## Patient Landscape

Liver metastases  
critical in cancer care



Liver metastases are common in many cancer types and often the cause of mortality<sup>1-3</sup>

- Colorectal cancer, metastatic breast cancer, gastric cancer

## Treatments

Contrast enhanced MRI  
is the gold standard

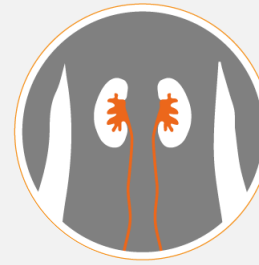


Contrast enhanced MRI

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

## Unmet Need

A role for ORVIGLANCE  
in patients with 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

## ORVIGLANCE

Aims to be the imaging option without gadolinium-related safety risks patients with poor kidney function

- Manganese based
- Liver specific

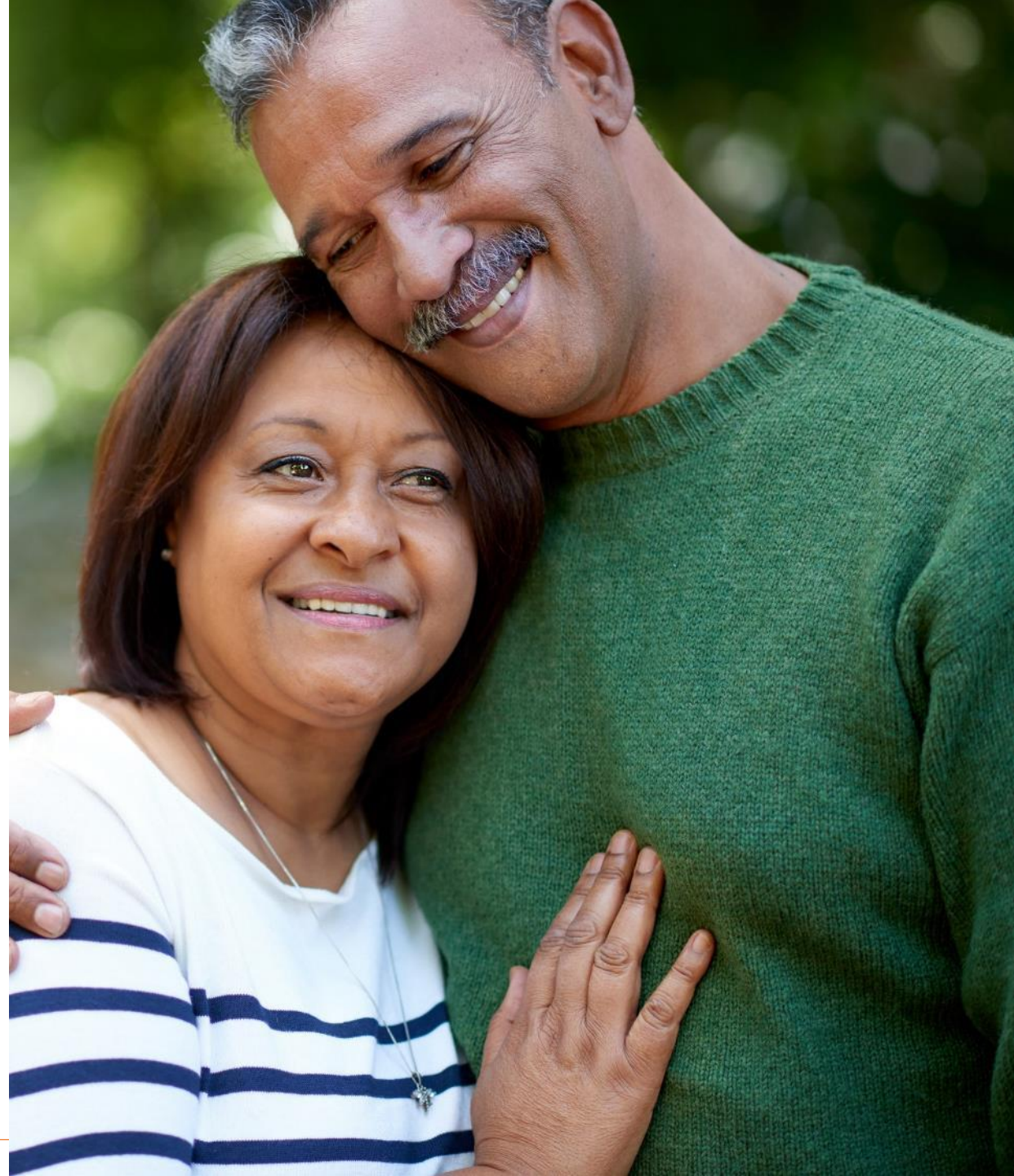
1) Riihimäki, M. *et al.* Patterns of metastasis in colon and rectal cancer. *Sci. Rep.* 6, 29765; doi: 10.1038/srep29765 (2016); *Journal of Pathology*, 2014, 232:23-31

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

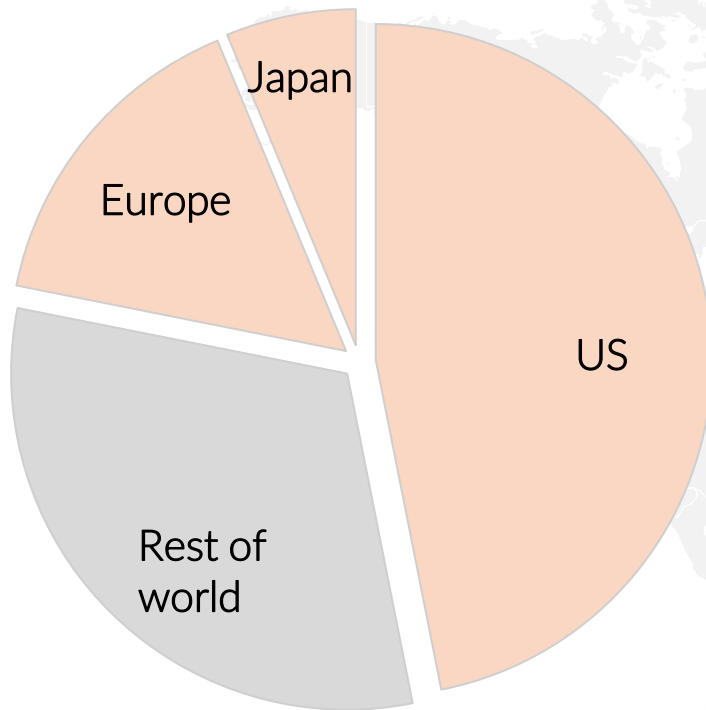
# UNCHANGED CONFIDENCE IN ORVIGLANCE

- A well-defined unmet need for liver imaging in cancer patients with poor kidney function
- A global addressable market opportunity of USD 800 million
- Consistent positive efficacy and safety in eight completed Phase 1 and 2 studies
- Patient recruitment and MR image collection for SPARKLE Phase 3 study completed
  - Common adverse events were in line with previous studies
  - Efficacy conclusions from pending re-evaluation





# ATTRACTIVE ADDRESSABLE MARKET



Global addressable market of USD 800 million

Well defined unmet need for liver imaging in cancer patients with severe kidney impairment

Attractive pricing and access opportunity based on recognized value proposition<sup>1</sup>

Underlying growth driven by prevalence and cancer survival as well as access and quality of care in rest of world markets<sup>2</sup>

Sources:

Ascelia Pharma market research with Decision Resources Group, 2020.

Ascelia Pharma market access research and analyses with Revenue Reimbursement Solutions and Charles River Associates (2020), Triangle (2022) and Trinity (2022), incl. 75 stakeholder and expert interactions

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

2) In rest of world markets addressable market patient population incorporates restricted access to care, with market-based assumptions ranging from 10% upwards

# ATTRACTIVE US OPPORTUNITY



Abdominal imaging procedures in cancer patients with severe kidney impairment (CKD 4/5/AKI) based on epidemiology and real-world data<sup>1</sup>

Pricing range benchmarks based on innovative diagnostics, payer and expert input and price testing<sup>2, 3</sup>

Volume growth driven by demographics as well as prevalence and long-term care in cancers and kidney disease

~100,000 procedures annually

\$3,000-4,500

4-5% vol. annually

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



# UNMET NEED RECOGNIZED

NSF\* risk  
with warnings for target population

+90%



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

+16%



of providers have experienced  
GBCA-induced NSF

\*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 is excreted in urine. Hard to remove in our sewage systems, it is discharged into our environment and drinking water

“The increasing use of gadolinium-based contrast agents (GBCAs) for MRI is leading to widespread contamination of freshwater and drinking water systems”<sup>1</sup>

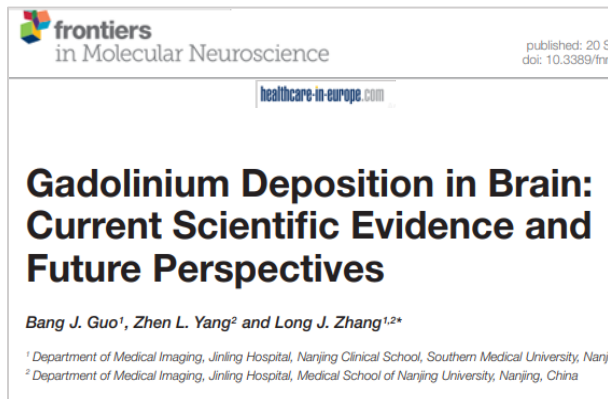
## Future with less/no gadolinium

focus of leading gadolinium manufactures

Low dose full-body gadolinium contrast agents

- FDA approved in priority review (gadopiclenol, Guerbet/Bracco 2022)
- Initiation of Phase 3 (gadoquatane, Bayer 2023)

Completion of Phase 1 patient enrollment in 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 (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

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





## PORTFOLIO

### ORVIGLANCE

Liver contrast agent in ongoing Phase 3

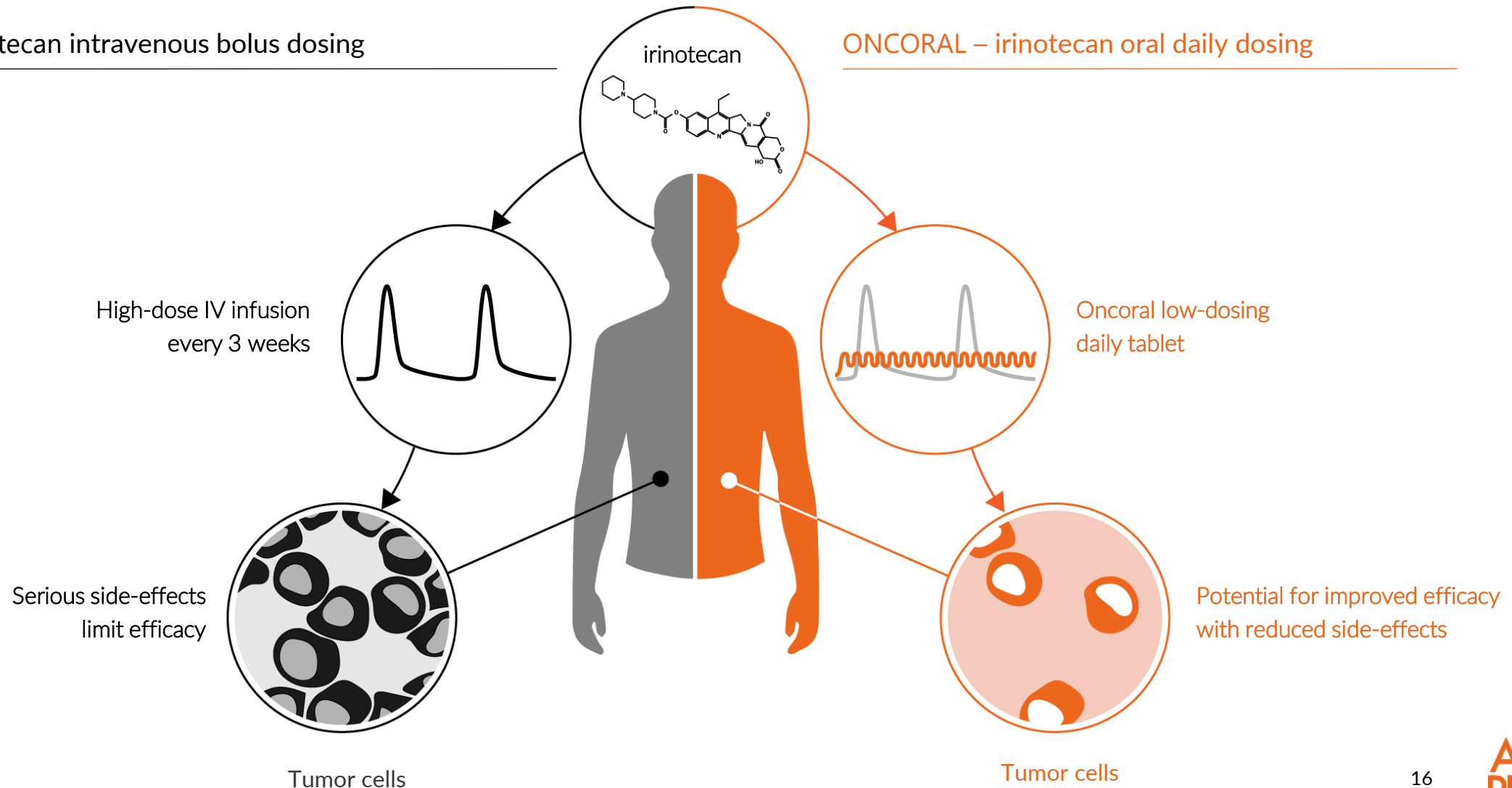
### ONCORAL

Daily oral chemotherapy ready for Phase 2

# IMPROVING IRINOTECAN EFFICACY and TOLERABILITY

Irinotecan intravenous bolus dosing

ONCORAL – irinotecan oral daily dosing

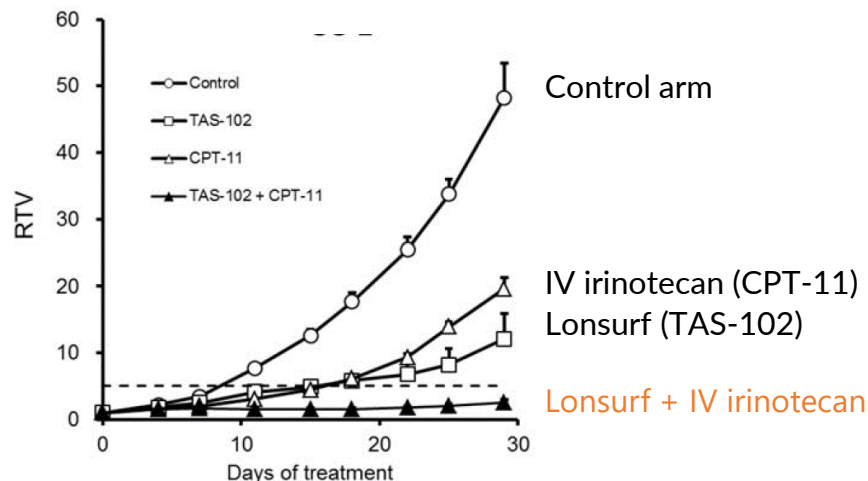


# ONCORAL PHASE 2 IN GASTRIC CANCER

## 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 cancer<sup>1</sup>  
(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



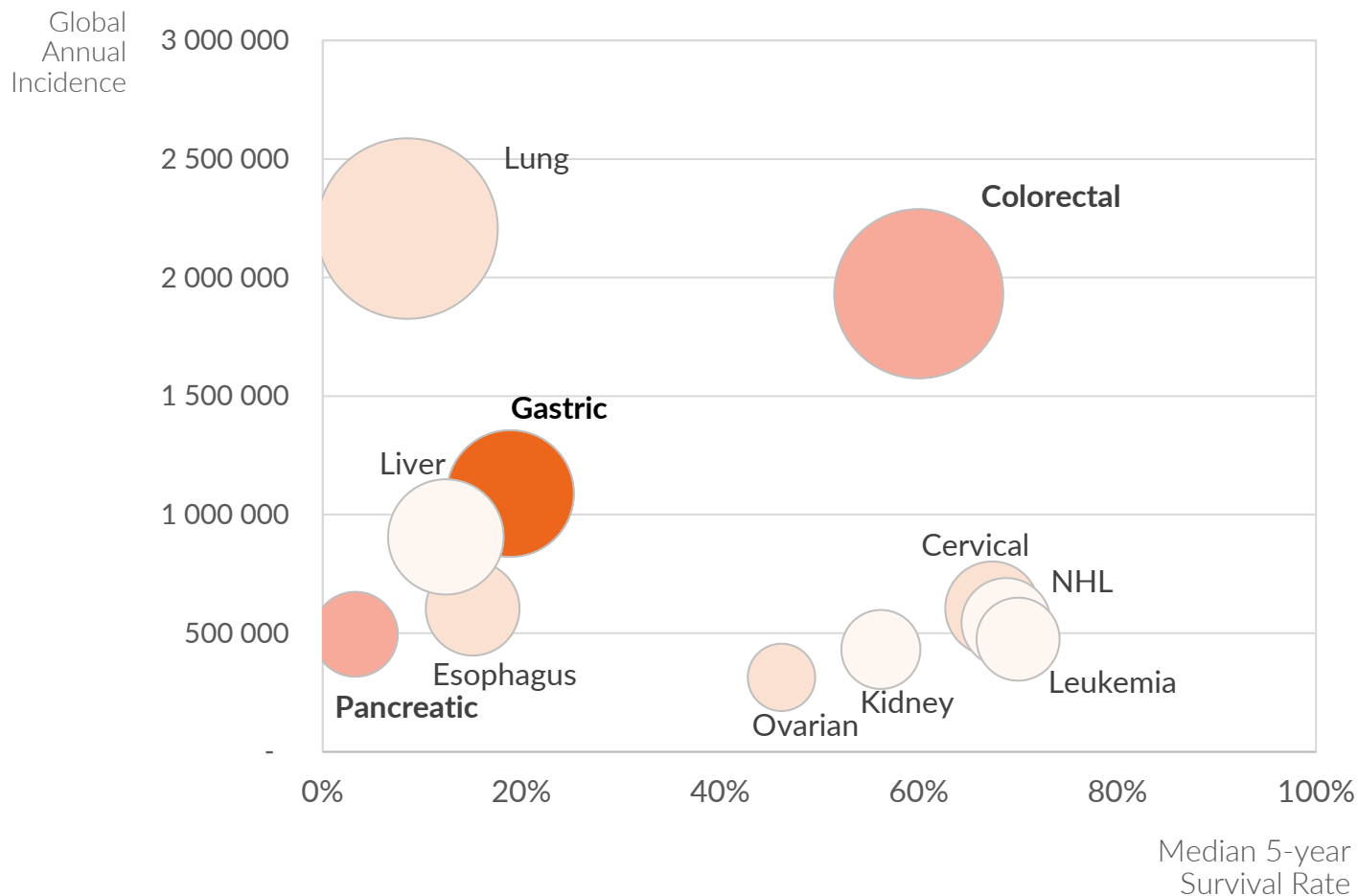
LONSURF is approved for treatment of metastatic gastric cancer and metastatic colorectal cancer

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 IRINOTECAN<sup>3</sup>



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

- **Current focus: Gastric cancer**
  - Clinically demonstrated
  - Guidelines recognized
  - 3<sup>rd</sup> highest cancer deaths<sup>1</sup>
  - Orphan disease (US and EU)
  - \$3-4bn market<sup>2</sup>
- **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



# ADVANCING ORPHAN ONCOLOGY

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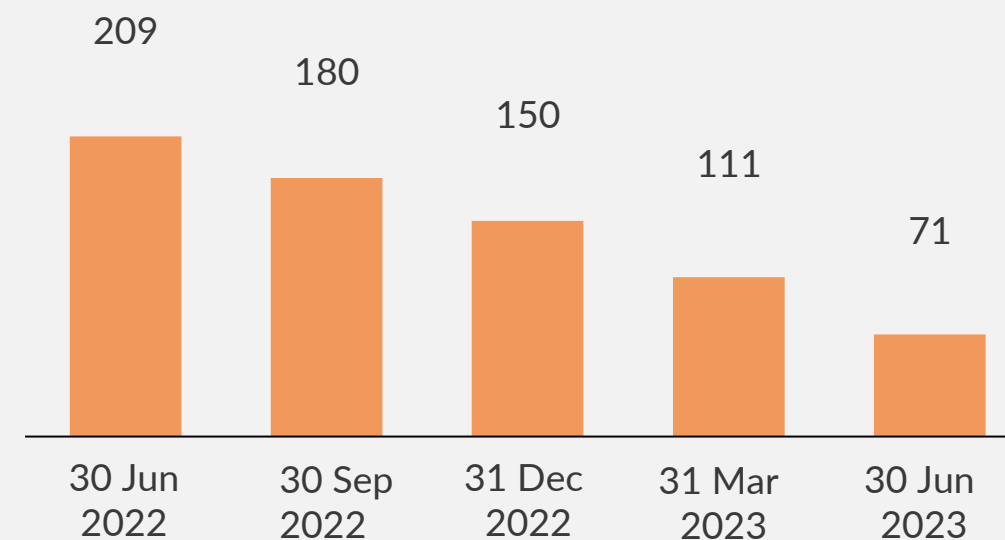
## Financials and Priorities

ASCELIA  
PHARMA

# FINANCIAL HIGHLIGHTS Q2 2023 – LIQUIDITY POSITION

- Liquid assets of 71 MSEK (\$6.5 million) by 30 June 2023
- Ambition to complete the SPARKLE image re-evaluation with current cash
  - Activities not related to the re-evaluation are postponed and cost saving initiatives taken
  - We will communicate the timeline for the re-evaluation activity and the financial runway in mid September

Liquid assets including marketable securities  
(SEK million)

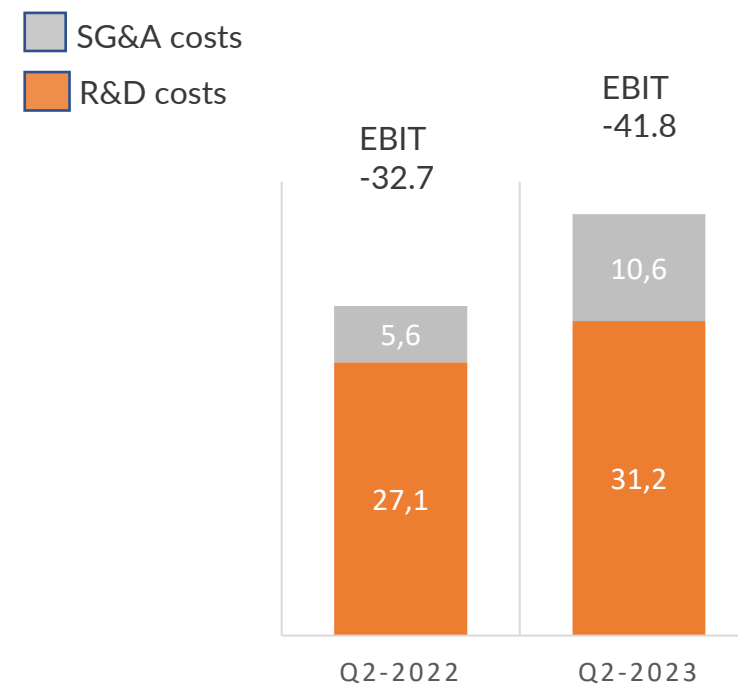




# FINANCIAL HIGHLIGHTS Q2 2023 – OPERATING RESULTS

- Increased operating loss in Q2 2023 compared to the loss in Q2 2022 due to a higher activity level in Ascelia Pharma in the current period vis-à-vis corresponding period last year. This was driven by costs related to Orviglance Phase 3 clinical study.

EBIT and cost items (SEK million)



Notes:

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



# UNCHANGED CONFIDENCE IN ORVIGLANCE

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ORVIGLANCE – a first-in-class orphan diagnostic drug targeting \$800m market



3 Mar 2023

Phase 3 LPLV



Mid-Sept 2023

Focused Plan for Re-Evaluation

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Oncoral – Phase 2 ready with attractive potential in gastric cancer and other solid tumors

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# ASCELIA PHARMA

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