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PRESENTATION AT AVANZA BÖRSDAG

22 May 2019

Presenter: CEO Magnus Corfitzen

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ASCELIA PHARMA IN BRIEF



Orphan oncology-dedicated drug development company



We develop drugs which target unmet medical needs, have an established mode of action and a relatively low development risk



Two clinical stage assets targeting attractive market opportunities



Founded in 2000 and headquartered in Malmö, Sweden



Listed on Nasdag Stockholm in 2019 (ticker: ACE)



ASCELIA PHARMA HIGHLIGHTS AND PIPELINE

Mangoral[®]

- Novel imaging drug with Orphan Drug Designation
- No competing products
- \$350-500M market with substantial upside potential
- De-risked Phase III clinical program starting in 2019

Oncoral

- Novel tablet chemo formulation
- Gastric cancer is an Orphan indication
- Phase I clinical study completed
- Recent acquisition of comparable product >\$1 billion

Candidate -	Indication	Phase I	Phase II	Phase III	Rights	
Mangoral®	Visualization of Focal Liver LesionsLiver metastasesPrimary liver cancerBenign lesions	Completed		2019-2020	Wholly- owned	
Oncoral	Treatment of Gastric cancer	Completed	2020-2022		Wholly-	
	Treatment of other solid cancers (label expansion)	Completed dev	velopment Pla	anned development	owned	



RECENT KEY EVENTS

Key events in Q3 (Jan-Mar 2019)



IPO Nasdaq Stockholm main market

- Amount raised: SEK 200 million
- Substantially oversubscribed
- Fully financed Phase III for Mangoral
- Ticker: ACE

Key events after Q3 (Apr-May 2019)



Supportive feedback from EMA on the Phase III program for Mangoral



Encouraging results from the Phase I combination study with Oncoral and oral capecitabine published in journal



Raised SEK 22 million in utilised IPO overallotment



SELECTED UPCOMING KEY EVENTS IN 2019 AND 2020

	H2-2019	2020		
Mangoral®	Phase III: First Patent First Visit	Phase III: Last Patent Last Visit (H2-2020) Final study results (H2-2020 / early 2021)		
Oncoral	Phase II preparations	Phase II study		





LIVER METASTASES - A MAJOR CHALLENGE IN ONCOLOGY

- 70% of patients with colon cancer will develop liver metastases¹
- Liver metastates are also common in other cancer types such as lung cancer, gastric cancer, metastatic breast cancer^{2,3} etc.
- The liver is the <u>most frequent</u> organ for metastases after lymph node³ and often the first site of metastasis
- Often liver metastases are the <u>cause of death</u> (not primary tumor)⁴





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

c) Oncotarget, 2016, 7(32):52307; Lung Cancer, 2014, 86:78-84 (6):29765

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

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

LIVER METASTASES: HOW TO FIND AND WHAT TO DO

DETECT AND LOCALISE

Liver MRI is the **most sensitive** method for detection of liver metastases¹⁾

Gadolinium based imaging drugs are given to maximize accuracy of liver metastasis detection in MRI



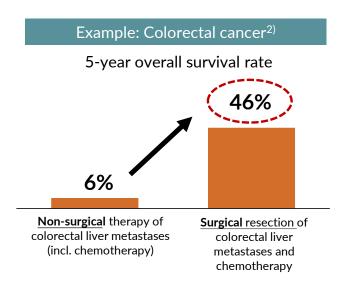
TREAT

Treatment options for liver metastases are:

- Surgical resection (only if detected early)
- Localised therapies (ablation embolization, radiation)
- Drug therapy

IMPROVE SURVIVAL

Accurate, early detection of liver metastases significantly impact treatment decisions and <u>patient</u> survival



GADOLINIUM CAN CAUSE NEPHROGENIC SYSTEMIC FIBROSIS IN PATIENTS WITH POORLY FUNCTIONING KIDNEYS





















No alternative MRI imaging drug for cancer patients with severely impaired kidneys

WARNING: NEPHROGENIC SYSTEMIC FIBROSIS (NSF)

See full prescribing information for complete boxed warning.

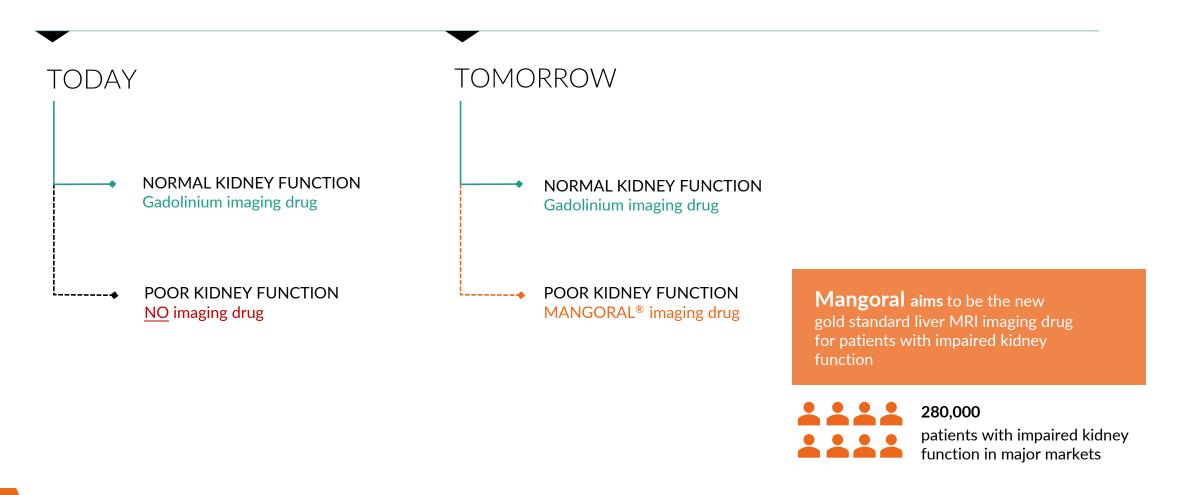
Gadolinium-based contrast agents (GBCAs) increase the risk for NSF among patients with impaired elimination of the drugs. Avoid use of GBCAs in these patients unless the diagnostic information is essential and not available with non-contrasted MRI or other modalities.

- The risk for NSF appears highest among patients with:
 - Chronic, severe kidney disease (GFR < 30 mL/min/1.73m²), or
 Acute kidney injury.
- Screen patients for acute kidney injury and other conditions that may reduce renal function.
- For patients at risk for chronically reduced renal function (for example, age >60 years, hypertension or diabetes), estimate the glomerular filtration rate (GFR) through laboratory testing (5.1).





PATIENTS REFERRED FOR LIVER MRI SCAN



MANGORAL® STRONG CLINICAL RESULTS AND KEY BENEFITS

MANGORAL PROFILE AND KEY ADVANTAGES



Mangoral is based on manganese – a natural trace element in the body



FDA Orphan Drug Designation



Strong enhancement of liver on MRI – metastases do not take up manganese and appear darker on the MRI



No risk of Nephrogenic Systemic Fibrosis



Limited systemic exposure and good safety profile



No competing drug



Provides ease of use for patients and clinicians alike

STRONG CLINICAL RESULTS

Six Phase I and Phase II trials completed

 The clinical trials have shown strong clinical efficacy without any safety concerns

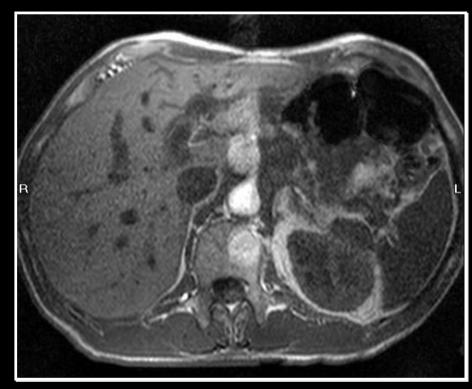
Blinded read study

- The study with 178 subjects further underlined that Mangoral significantly improves MRI performance
- 33% more lesions were detected after Mangoral enhanced MRI
- Mangoral significantly improved lesion visualisation (conspicuity; p-value <0.0001) and delineation (p-value <0.0001)



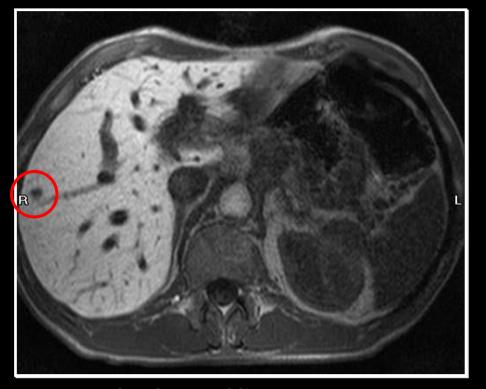
MANGORAL® MAKES A REAL DIFFERENCE

PATIENT EXAMPLE FROM PHASE II STUDY



Unenhanced liver MRI

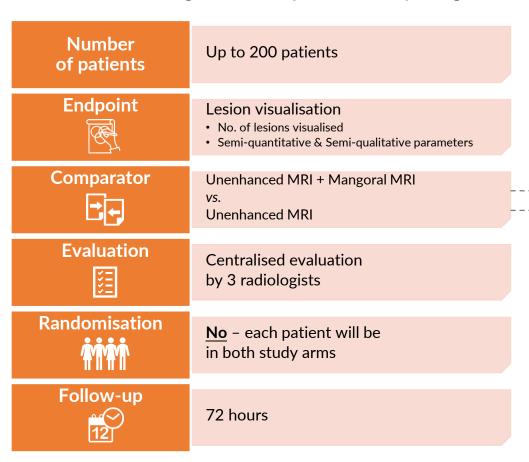
(standard of care today in target patient population)

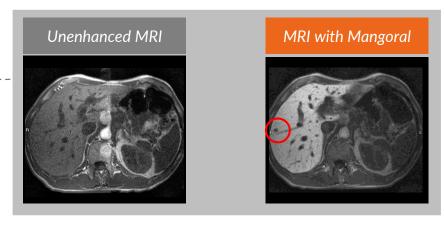


Mangoral enhanced liver MRI

MANGORAL® PHASE III CLINICAL STUDY DESIGN IMPLIES INCREASED LIKELIHOOD OF SUCCESS

Mangoral clinical phase III study design - based on Phase III protocol meeting with FDA and EMA











MANGORAL® IS THE ONLY PRODUCT IN A \$350-500M MARKET

Overview of Mangoral's addressable market

280,000 patients having risk of cancer in the liver and poor kidney function

Mangoral useful for diagnosis, monitoring and surveillance

\$1,500 - \$3,000 per dose of Mangoral based on Value-based-pricing

\$350-500 million addressable market for Mangoral

Source

Detailed epidemiology analysis by geography, age groups and primary disease

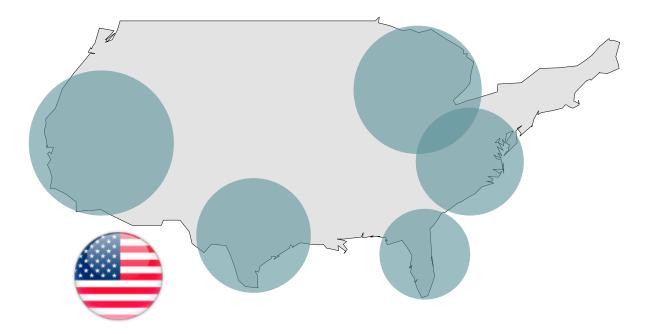
Use of liver MRI today and clinical guidelines

>25 interviews with payors/health insurers in US and EU and analysis of value provided by Mangoral



MANGORAL® COMMERCIAL STRATEGY FOR A 2022 SALES LAUNCH

10-20 Sales Reps sufficient for penetration in concentrated regions



- Ascelia's sales force will target major hospitals with nephrology units
- 10-20 sales reps in the US sufficient for significant penetration
- Reimbursement expected shortly after sales launch
- Chief Commercial Officer will be recruited during the Phase III clinical study to finalize commercial strategy and prepare launch
- No recent innovation in the MRI space Mangoral has attracted major attention. This will be utilized in the pre marketing phase
- Ascelia sales force in Europe being evaluated
- Find commercial partners in Japan, South Korea and China





ONCORAL – A NOVEL IRINOTECAN TABLET FOR ANTI-CANCER TREATMENT

NOVEL ORAL FORMULATION



Formulated as a **tablet** for convenient dosing and health-economic benefits



Promising safety potential of oral administration



Potential for all-tablet chemocombination

PHARMACEAUTICAL INGRIEDIENT HAS PROVEN EFFECT



Irinotecan shown to be effective in killing cancer cells



Expected to be efficacious and safe **together** with other well-recognized anti-cancer drugs



Orphan drug indication for gastric cancer by the FDA and EMA



ONCORAL HIGHLY DIFFERENTIATED FROM OTHER IRINOTECAN PRODUCTS

New

cancer indications

Intravenous **Tablet** Gastric cancer **ONCORAL** Colorectal cancer Camptosar™ Pancreatic cancer Onyvide™

- Significant unmet medical need in gastric cancer
- Gastric cancer is an orphan indication
- Irinotecan approved in Japan in gastric cancer
- Strong interest from oncologists

Approved cancer indications



ENCOURAGING ONCORAL PHASE I STUDY RESULTS

Phase I single agent study published in Jan 2019

Results showed that Oncoral was well tolerated; side effects were generally mild to moderate, manageable and similar in type to those observed with intravenous irinotecan

Hematological toxicities were few and all were mild to moderate

Pharmaco-Kinetic (PK) data showed consistent daily exposures during treatment at days 1 and 14 with no drug accumulation

The active metabolite, SN-38, interpatient variability was in the same range as after infusion of irinotecan

In this heavily pre-treated patient population, Oncoral indicated activity even among patients previously treated with irinotecan infusion

The study was presented at ESMO congress in October 2018





Phase I combination study published in April 2019

The combination of Oncoral with another oral chemotherapy, capecitabine, was encouraging which could enable an all-oral chemotherapy combination

The study data demonstrated reassuring tolerability of Oncoral together with capecitabine

The combination with capecitabine could become a more convenient and patient friendly treatment option compared to the intravenous formulations of these compounds

The encouraging tolerability profile justifies further clinical studies to assess the efficacy of this treatment regimen





SIGNIFICANT VALUE DRIVERS AHEAD

MANGORAL® **ONCORAL** Final results Phase III First Patient First Last Patient Last Visit (FPFV) in Visit (LPLV) in Full study report FDA approval Phase III Phase III Phase III Hepatic study NDA/MDA Last patient visit application **EMA** meeting Hepatic study Hepatic study **SALES LAUNCH** First patient recruited Final results Development H1 **H2** 2020 2021 2022 timeline Phase I Phase II full study report Phase II **Preparation and Start** (Parts A and B)



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Kristian Borbos Chief Financial Officer







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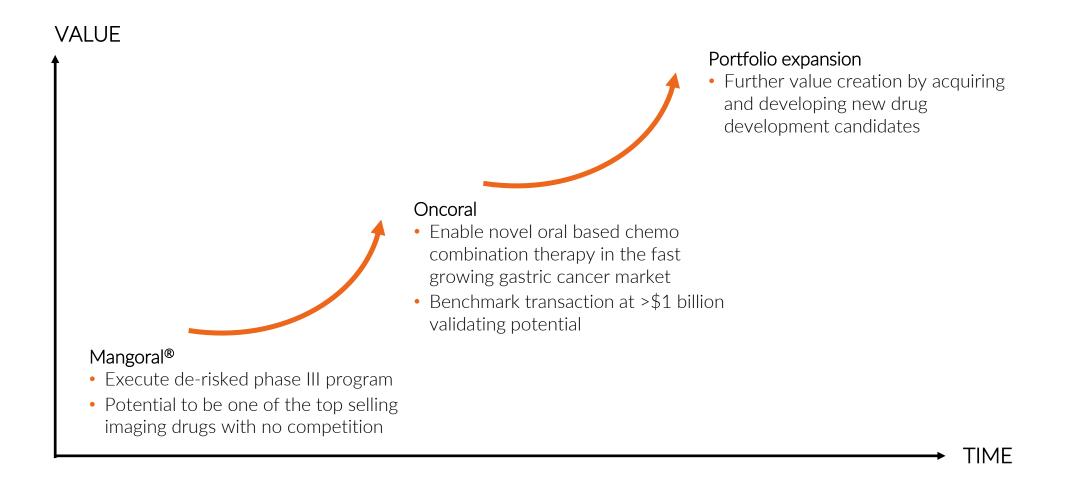








ASCELIA PHARMA STRATEGIC OUTLOOK





INVESTMENT HIGHLIGHTS



- \$350-500 million annual addressable market
- No competing drugs
- Phase III program with high likelihood of success results end 2020 / early 2021
- Orphan Drug Designation

Oncoral - Phase II ready oral chemotherapy for gastric cancer

- Novel tablet formulation with significant patient and hospital benefits
- Effective molecule for killing cancer
- Promising Phase I results

Highly experienced Management and Board

Supported by a wide network of highly reputable KOLs and advisors



ASCELIA PHARMA

ascelia.com