ASCELIA PHARMA

Share ticker: ACE Nasdaq Stockholm (small cap)

ASCELIA PHARMA COMPANY PRESENTATION

ADVANCING ORPHAN ONCOLOGY

MAY 2020

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.



ASCELIA PHARMA: ADVANCING ORPHAN ONCOLOGY

A global health burden

44 million people live with cancer; 18 million are diagnosed each year¹

USD 150 bn spent yearly on cancer therapies alone²

Orphan drugs represent 12 of 15 new active substances in oncology launched in the US in 2018²

Dedicated to unmet needs in orphan oncology

Drugs with a clear development and market pathway

- Advancing liver imaging with orphan MRI contrast agent with no competition (in ongoing Phase 3)
- Advancing chemotherapy with novel tablet for gastric cancer (Phase 2 ready)

Capabilities to bring new compounds to market

- World class cross-functional team
- Headquartered in Malmö, Sweden
- Listed on NASDAQ STOCKHOLM in 2019 (ticker: ACE)
- Solid financial position with SEK 169 million in liquid assets ٠



Sources 1) https://canceratlas.cancer.org/the-burden/the-burden-of-cancer/ (2018 figures) Global Oncology Trends 2019, IQVIA (2018 figures) 2)

CLINICAL STAGE PORTFOLIO ADDRESSING CLEAR UNMET NEEDS





STRONG AND EXPERIENCED MANAGEMENT AND BOARD

EXECUTIVE MANAGEMENT

	Magnus Corfitzen Chief Executive Officer	Sunstone Danske Capital McKinsey&Company V/EKSTFONDEN
	Kristian Borbos Chief Financial Officer	NOVOZYMES [*] Rethink Tomorrow Danske DONG Bank
R	Carl Bjartmar, MD, Ph.D Chief Medical Officer	SANOFI Genzyme
	Julie Waras Brogren Chief Commercial Officer	BresoTEC novo nordisk [®] accenture
	Mikael Widell Head of IR and Communications	AstraZeneca COMUNICATIONS COMUNICATIONS Promer in Rure Diseases Digens industri

BOARD OF DIRECTORS





MANGORAL

LIVER MRI CONTRAST AGENT IN PHASE 3 CLINICAL STUDIES

LIVER METASTASES – A MAJOR CHALLENGE IN ONCOLOGY

LIVER METASTASES COMMON IN MANY CANCER TYPES

The liver is the **most frequent** organ for metastases after lymph node³ and often the first site of metastasis

- 70% of patients with colon cancer will develop liver metastases¹
- Liver metastases are also common in other cancer types such as lung cancer, gastric cancer, metastatic breast cancer^{2,3} etc.

Liver metastases often the **cause of mortality** (not primary tumour)⁴



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) Oncotarget, 2016, 7(32):52307; Lung Cancer, 2014, 86:78-84 (6):29765
- 3) 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
- 4) 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

Incidence of liver metastasis in various primary cancers ¹⁻⁴



* Metastatic breast cancer



LIVER METASTASES: HOW TO FIND AND WHAT TO DO

DETECT AND LOCALISE

Liver MRI is the **most sensitive** method for detection of liver metastases²⁾

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



TREAT

Treatment options for liver metastases are:

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

IMPROVE SURVIVAL

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







GADOLINIUM – THE STANDARD OF CARE CONTRAST AGENT IS <u>NOT</u> SAFE FOR ALL PATIENTS

SAFETY RISKS ASSOCIATED WITH GADOLINIUM

- Gadolinium (toxic heavy metal) based contrast agents (GBCA) in renally impaired patients and patients with acute kidney injury are linked to Nephrogenic Systemic Fibrosis (NSF)
 - An aggressive fibrosing disease in which fibrous connective tissue seeks to replace normal tissue of the skin, muscle and deep inner organs
 - A serious and potentially fatal condition multiorgan disorder with no treatments available
- Since 2006 there have been 3,125 cases of NSF as a result of GBCA use in the US, 745 of which resulted in death
- Gadolinium's link to NSF has been acknowledged by FDA and EMA, with black box warnings and label changes issued



Clinical presentation of NSF



NSF causes the skin to gradually become fibrotic and adheres to the underlying fascia causing hyperpigmentation, blistering and ulceration



MANGORAL – MANGANESE BASED LIVER CONTRAST AGENT



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

Liver metastasis appear with Mangoral

MANGORAL CLINICAL ACTIVITES

Study	Objective of the study	Site location and no. of patients	Time schedule
Pivotal Phase 3 study ("SPARKLE")	Assess efficacy and safety of Mangoral in patients with severely reduced kidney function and with known or suspected liver lesions	Global multicentre study in up to 200 patients	Study ongoingStudy results expected in H2-2021
Hepatic study	Assess the influence of hepatic impairment on the safety, pharmacokinetics and pharmaco- dynamics of Mangoral	Open-label study on 24 healthy and hepatically impaired participants at the Texas Liver Institute, San Antonio, US	Study ongoingStudy expected to be completed in 2020
Food effect study	Assess the effect of food intake on Mangoral uptake	Study contract to be awarded	 Study preparations ongoing Short study, expected to be completed in 2020

These studies, together with the already completed Phase 1 and 2 studies, ensure a comprehensive data package for the regulatory submissions in key markets

DE-RISKED PHASE 3 STUDY UNDERPINNED BY STRONG DATA FROM COMPLETED STUDIES AND STUDY DESIGN

Phase 3 registration-enabling study (study ongoing) Strong data package for Mangoral Six phase 1 and 2 clinical studies completed Consistent strong efficacy readout and safety profile Blind read study of all imaging data presented at major conferences The study with 178 persons further underlined that Mangoral significantly improves MRI performance 33% more lesions were detected after Mangoral enhanced MRI Mangoral significantly improved lesion visualisation Delineation: p-value < 0.0001 Conspicuity: p-value < 0.0001

Number Global study in up to 200 patients of patients Endpoint Lesion visualisation • Lesion border delineation (border sharpness of lesions) • Conspicuity (lesion contrast compared to liver background) **Comparator** Unenhanced MRI + Mangoral MRI VS. Unenhanced MRI **Follow-up** 72 hours 12 Randomisation No - each patient at his/her own control m Validation Phase 3 program has been discussed with ž FDA and EMA



ADDRESSING UNMET NEEDS OF 280,000 PATIENTS IN KEY MARKETS

Confirmed unmet medical need



Value to payers, physicians and patients

Only liver MRI contrast agent for patients with poor kidney function or acute kidney failure ² (~280,000 patients in major markets)	~280,000
Improved visualisation of focal liver lesions (incl. metastases) compared to unenhanced MRI. (+33% more lesions in phase 1&2 studies)	+33%
Early detection of focal lesions and metastases allows early intervention and higher survival rate (94% of clinicians confirm ³)	94%

¹ Market research by Back Bay Life Science Advisors with interview of 84 radiologists across the US regarding clinical practices in liver MRI scanning, the use of gadolinium and mangoral product profile. Notes: 1) Survey answers to question: 'What is your overall opinion of this product for its target population of patients with known or suspected liver metastases and severe renal insufficiency or acute kidney injury?' 2) Based on regulatory drug class warning on use of gadolinium-based contract agents in patients with renal impairment (an eGFR <30 ml/min/1.73 m²) or acute kidney failure. 3) Survey answers to 'Using contrast MRI is important for early intervention, to detect small lesions, which if removed can be curative e.g. colorectal cancer metastases?'



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

Addressable market





OUTLOOK FOR MARKET OPTIMAL LAUNCH STRATEGY

Strong case for own US commercialisation

US operations

- Field team of 10-20 FTEs can target 3,500-5,000 key accounts
- Target major hospitals with nephrology departments and independent specialist clinics
- US capability to include commercial and cross-functional support team

Optimal RoW uptake with partnering

Europe, Japan and RoW

- Roll-out according to market potential, pricing and access
- Leverage global synergies in pre-launch and launch
- Ascelia vs. partner roles evaluated to maximise value



PREPARING FOR COMMERCIALISATION





ADVANCING ORAL CHEMOTHERAPY

ONCORAL

CHEMOTHERAPY TABLET FOR GASTRIC CANCER READY FOR PHASE 2

ONCORAL – NOVEL IRINOTECAN TABLET READY FOR PHASE 2

NOVEL ORAL PATENTED FORMULATION



Formulated as a **tablet** for convenient dosing and healtheconomic benefits



Promising safety potential of oral administration





Irinotecan shown to be effective in killing cancer cells

	∼ – I	
	✓ —]	
	~ — I	
	v —	
_		

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



Potential for **all-tablet chemocombination**



Orphan drug indication for gastric cancer by the FDA and EMA

With promising Phase 1 results, we are now preparing for Phase 2



ENCOURAGING ONCORAL PHASE 1 STUDY RESULTS

Phase 1 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 1 *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



TARGETING >\$4 BILLION MARKET IN GASTRIC CANCER

DISEASE CHARACTERISTICS

- Gastric cancer is the 6th most prevalent cancer in the world¹⁾
- Gastric cancer is the 3rd most frequent cause of cancer death¹⁾
- The 5-year survival of gastric cancer is approximately 20%²⁾

MARKET OPPORTUNITY

- Market for gastric cancer treatment forecast to increase to >\$ 4 billion in 2024³
- Drug treatment typically combination of 2-3 drugs

Key growth drivers

- ① Increase in overall incidence of gastric cancer
- 2 Anticipated increase in treatment rates
- 3 Extended treatment duration
- ④ New lines of more expensive therapies
- 5 Increased number of patients receiving branded therapy



21

IARC (2012)
 Clinical Colorectal Cancer 2015; 14(4): 239-50
 GlobalData - Gastric and Gastroesophageal Junction Adenocarcinoma – Global Drug Forecast and Market Analysis to 2024

PRIORITIES 2020 AND INVESTMENT HIGHLIGHTS



Priorities in 2020



First patient in the Phase 3 SPARKLE study



First participant in the hepatic study

Work diligently with study sites during Covid-19 and enrol additional patients

Pre-launch activities and preparations for Mangoral (market launch planned for Q4 2022 – H1 2023)

Prepare Phase 2 study for Oncoral (planned start in 2021)



INVESTMENT HIGHLIGHTS

Ascelia Pharma (ticker: ACE) – Advancing orphan oncology

- Drugs targeting unmet medical needs with known mode of action and low development risk
- Solid financial position: SEK 169 million in liquid assets per 31 Mar 2020

Mangoral – Phase 3 non-gadolinium liver imaging drug

- \$350-500 million annual addressable market
- No competing drugs
- Ongoing Phase 3 program with high likelihood of success study results expected in H2 2021
- Orphan Drug Designation

Oncoral – Phase 2 ready oral chemotherapy for gastric cancer

- Novel tablet formulation with significant patient and hospital benefits
- Effective molecule for killing cancer
- Promising Phase 1 results and preparing for Phase 2



ASCELIA PHARMA

ascelia.com

APPENDIX – MARKET MODEL

TARGET SEGMENT

PATIENTS WITH KNOWN OR SUSPECTED **FOCAL LIVER LESIONS** <u>AND</u> SEVERELY **IMPAIRED KIDNEY FUNCTION**





MEASURING KIDNEY IMPAIRMENT IN PATIENTS

- According to American Society of Nephrology, CKD 4 is defined as eGFR < 30 mL/min/1.73m² on two occasions separated by ≥90 days and that is not associated with a transient, reversible condition such as volume depletion
- eGFR is estimated based on serum creatinine measurement, which is considered good for measuring stable patients over time, but is less good in capturing acute changes in kidney function, where the calculated eGFR is higher than the *true GFR*
- Kidney function can be temporarily reduced due to factors such as nephrotoxic drugs (including chemo and antibiotics), surgery, hospitalization, trauma and dehydration





DEFINITION OF CHRONIC KIDNEY DISEASE 4/5

All of these patients are candidates for Mangoral, but only one is categorized as a CKD 4/5 patient





MANGORAL PATIENT POPULATION

- Mangoral can be used for visualization of all focal liver lesions, but is expected to be predominantly used in patients with known or suspected cancer in the liver. The majority of patients will have liver metastases and a small minority will have primary liver cancer
- Today, kidney function is assessed in clinical practice in patients at risk of kidney impairment by measuring serum creatinine and calculating eGFR
- eGFR is reliable in patients in stable condition and with a history of previous eGFR measurements for assessing development in kidney function. It is less reliable in situations where the patient either
 - Has no previous eGFR measurements, or
 - Is in unstable condition that can have acute effects on kidney function
- The estimate of eligible patients for Mangoral therefore includes both CKD 4/5 patients as well as patients with acute changes in kidney function



\$350-500M ADRESSABLE MARKET WITH NO COMPETITION



An addressable market of USD 350-500m



1 THE PREVALENCE OF CKD VARIES ACROSS GEOGRAPHIES AND AGE

US-specific figures for CKD stage-specific prevalence have been used as a basis

-

prevalence rates	Age<60	Age≥60	Source
CKD 4/5 prevalence	0.2%	1. 8 %	USRDS ADR 2010
CKD 3 prevalence	4.2%	26.3%	USRDS ADR 2010
Fraction with acute worsening	10)%	Company estimate
CKD 3 with acute worsening	0.42%	2.63%	Derived from the above

Age-standardized prevalence of CKD (%), \geq 20 years, 2012¹⁾



Overall CKD prevalence in the US (%)	8.18%
Japan relative to the US ²⁾	1.00
France relative to the US	0.58
Germany relative to the US	0.79
Italy relative to the US	0.45
Spain relative to the US	0.46
UK relative to the US	0.73

1) Global Data 'Chronic Kidney Disease - Epidemiology Forecast to 2022', August 2013

2) Clin Exp Nephrol. 2009 Dec;13(6):621-30, Prevalence of chronic kidney disease in the Japanese general population, Imai et al.

•	The detailed prevalence figures obtained in the US for
	the various stages of CKD have been used as a basis
	for the CKD prevalence calculations

- Japan's CKD stage-specific prevalence has been found to be relatively identical to the US
- For the EU countries, their stage-specific CKD prevalence have been calculated using the US figures adjusted for these countries' overall CKD prevalence vs. the US

Geography	Prevalence rates	Age<60	Age≥60
	CKD 4/5 prevalence	0.12%	1.04%
France	CKD 3 with acute worsening prevalence	0.24%	1.52%
	CKD 4/5 prevalence	0.16%	1.43%
Germany	CKD 3 with acute worsening prevalence	0.33%	2.09%
	CKD 4/5 prevalence	0.09%	0.80%
Italy	CKD 3 with acute worsening prevalence	0.19%	1.17%
	CKD 4/5 prevalence	0.09%	0.82%
Spain	CKD 3 with acute worsening prevalence	0.19%	1.20%
	CKD 4/5 prevalence	0.15%	1.31%
UK	CKD 3 with acute worsening prevalence	0.31%	1.91%



2 RISK OF COLORECTAL CANCER IS HIGHER IN THE CKD POPULATION

Overview

Risk factor for cancer	Age<50	Age≥50	Source	
Colorectal cancer	3.7	1.64	Ann Surg Oncol (2013) 20:3885–3891, Risk of Colorectal Cancer in Chronic Kidney Disease: A Matched Cohort Study Based on Administrative Data, Wu et al.	
Liver cancer	1.0	1.0	No relevant source, i.e. no adjustment to risk factor	
Other relevant cancers (breast, lung and gastric cancer)	1.0	1.0	No relevant source, i.e. no adjustment to risk factor	
Effect on calcu	ulation		Abstract	
The risk of developing colorectal			Background	
found to be 1.64-3.7x larger for patients with CKD than others		n CKD	To investigate the risk of CRC in patients with CKD	
			Methods	
To adjust for this, the CKD prevalence figures (%) have been multiplied by this factor when the addressable CKD cases within the colorectal cancer population have been calculated			 Study cohort included patients aged ≥18 years diagnosed with CKD between 2004 and 2005 (n = 15,975) 	
		6)	 Comparison cohort (n = 79,875) included five randomly selected age- and gender-matched controls for each patient in the study cohort 	
			• All the subjects were followed up from the date of cohort entry until they developed CRC or until the end of 2006.	
			Results	
A detailed example follows on the next slide			 460 patients developed CRC during the study period, of whom 116 were from the CKD cohort and 344 were from the comparison cohort 	
			 The age-matched hazard ratio of CRC after excluding dialysis patients was 1.64 (95% CI 1.27-2.11) in patients aged ≥50 years, and 3.7 (95% CI 1.83-7.49) in patients younger <50 years 	
		-		



EXAMPLE OF HOW THESE ASSUMPTIONS ARE UTILISED IN THE MODEL

Geography: US / Cancer indication: Colorectal

*	İ			ĺ			İ	ĺ		/	
Patients / age intervals	0-14	15-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	≥ 75	Tota
Colorectal cancer patients by 2020 ('000) ¹⁾	0.1	14.8	17.9	32.0	48.3	60.9	71.2	90.2	82.6	234.0	652.
CKD 4/5 prevalence			0.2	2%				1.3	8%		
CKD 3 prevalence			4.2	2%			26.3%				$ \rangle$
Fraction with acute worsening					10)%					
CKD 3 with acute worsening			0.4	2%				2.6	3%		
Risk factor	3.7			1.64					\leftarrow		
Risk-adjusted CKD 4/5 prevalence (%)	0.74%	0.74%	0.74%	0.74%	0.33%	0.33%	2.95%	2.95%	2.95%	2.95%	
Risk-adjusted CKD 3 with acute worsening prevalence (%)	1.55%	1.55%	1.55%	1.55%	0.69%	0.69%	4.31%	4.31%	4.31%	4.31%	
CKD 4/5 patients ('000)	0.001	0.110	0.133	0.237	0.158	0.200	2.102	2.664	2.437	6.908	14.94
CKD 3 with acute worsening patients ('000)	0.001	0.231	0.278	0.498	0.332	0.420	3.072	3.892	3.561	10.093	22.37
Total ('000)	0.002	0.341	0.411	0.735	0.491	0.620	5.174	6.556	5.998	17.001	37.3

Est. total of **37,326** relevant CKD patients in the US colorectal cancer population



IMAGING FREQUENCY DEPENDS ON DISEASE STATE, TREATMENT, PROGNOSIS AND RISK PROFILE

	Stage	A Pre-therapy / pre-operative	B During therapy	C Follow-up / post- operative		
MRI scans are utilized throughout the treatment cycle, which can be categorized into three main stages	Purpose	Diagnosis (location / burden) and planning of treatment	Response to systemic therapy	Surveillance for tumour recurrence		
	Frequency	 Typically one initial scan Response to chemotherapy and re- assessment of colorect metastatic resectability may occur at 6 week intervals¹ 		 For primary liver cancer post-operative imaging surveillance intervals may range from 3-12 months¹⁾ 		
Avg. frequency of sca	ns per patients	Year 1 ²⁾		Year 2+		
Colorectal cancer		2		1		
Liver cancer		2		1		
Other relevant cancer (breast, lung and gast		0.5		0.25		

The treatment cycle

1) AJR Am J Roentgenol, 2014, 203(1):W21-33

2) The newly diagnosed rate for Colorectal, Liver and Other relevant cancers have by Management been assumed to be at 25%, 50% and 25%, respectively. These figures have been derived based on the observed incidence / prevalence across these indications.



ANGORAL IS AN ORPHAN HIGH VALUE DIAGNOSTIC DRUG WITH EXPECTED STRONG PRICING POWER

Median cost per patient p.a. for orphan drugs, US, 2012-2016¹⁾





 Ascelia Pharma has held discussions with more than 25 payors on Mangoral's market access

 Feedback from these discussions support the plan for a unique Mangoral reimbursement code and value based pricing

Est. price per Test Туре Company dose (USDk) 5.7 In-vivo Zevacor Choline C-11²⁾ PET imaging (injection) Pharma 2.2 Afirma Gene Expression Preoperative In-vitro Veracyte Classifier³⁾ microarrav test 3.4 3.7 Oncotype DX Gene Gene expression Genomic In-vitro expression microarray⁴⁾ Healths microarray test Axumin PET In-vivo Blue Earth 3.7 (fluciclovine F 18) (injection) Diagnostics imaging PET agent⁵⁾

Pricing of other relevant high value diagnostics



36

Source: EvaluatePharma (Orphan Drug Report 2017)
 SNMI 2016 (http://snmmi.files.cms-plus.com/docs/hp

- SNMI 2016 (http://snmmi.files.cms-plus.com/docs/hpra/SNMMI%20HOPPS%202016F%20vs%202017P_update.pdf)
- Veracyte 2016 (http://investor.veracyte.com/releasedetail.cfm?releaseid=975334) Genomic Health 2015 (http://investor.genomichealth.com/releasedetail.cfm?releaseid=935522)

Genomic Health 2015 (http://investor.genomichealth.com/releasedetail.
 Axumin 2017 (http://www.axumin.com/pdf/Pass-thru.pdf)

3) 4) 5)

IN SUMMARY...



GADOLINIUM BRAIN ACCUMULATION - UPSIDE POTENTIAL

Gadolinium under scrutiny for brain accumulation

- Recently, concerns have been raised for gadolinium retention in the brain in all patients regardless of kidney function
- Regulatory agencies have issued warnings and suspended gadolinium-based products
- Concerns about brain accumulation have also sparked media interest (incl. WSJ and Washington Post)

A Question for Anyone Getting an MRI Patients need to know if the doctor plans to use contrast, or gadolinium, because it may leave harmful metal deposits; a new FDA warning



Millions of magnetic resonance imaging, or MRI, scans are performed annually in the U.S. to look for tumors among other aliments. PHOTO: GETTY IMAGES



Sumathi Reddy Sept. 18, 2017 12:21 p.m. ET

For Ascelia, further limitations to gadolinium products could offer significant upside to the addressable market

Selected recent regulatory actions



FDA

19 December 2017:

FDA Drug Safety Communication: FDA warns that gadolinium-based contrast agents (GBCAs) are retained in the body; requires new class warnings



23 November 2017:

EMA's final opinion confirms suspension and restrictions on use of linear gadolinium agents in body scans

6 February 2018:



6)

UK implements EMA decision and Omniscan and intravenous Magnevist are now no longer authorised for use and a product recall of any existing unexpired stock is underway

8 December 2017:

Japan's Ministry of Health, Labour and Welfare asks makers of gadolinium-based contrast agents (GBCAs) for MRI scans to revise warning text

1 April 2018:

Sweden implements the EMA recommendations. Since gadolinium may ingrain itself in the human brain with unknown long term side effects



DE-RISKED PHASE 3 STUDY COMPARED TO TYPICAL PHASE 3

Parameter	TYPICAL ONCOLOGY pivotal Phase 3 trial	MANGORAL pivotal Phase 3 trial
Patient sample size	• 500-1,000+	\checkmark Up to 200 patients
Study design	 Patients randomised into separate study arms thus increasing variation 	 Each patient his/her own control thus minimising variation
ΑΡΙ	Often a novel molecule	✓ Manganese
Study comparator	 Add-on to standard-of-care or evaluated head-to- head vs. another active treatment regimen 	 Add-on to standard-of-care (unenhanced MRI vs. unenhanced MRI + Mangoral enhanced MRI)
Follow-up time to endpoint	Months to years	✓ Days



APPENDIX - Q1 2020 HIGHLIGHTS

SIGNIFICANT MILESTONES REACHED IN 2020

Key events in Q1-2020



First patient in Mangoral's Phase 3 study SPARKLE

Key events after the period



First participant in the hepatic study for Mangoral (May 2020)



Ascelia Pharma wins the award as Malmö's Best Life Science company



Patent approval for Oncoral in Japan (Apr 2020)



FINANCIAL HIGHLIGHTS – OPERATING RESULTS

Increased operating loss y/y mainly driven by higher R&D activity for Mangoral's Phase 3 study:

- Preparing and opening of clinical study sites •
- Manufacturing preparations •
- **Regulatory** preparations •

Also cost for commercial preparations for Mangoral incurred in Q1-2020 (none in Q1-2019)





FINANCIAL HIGHLIGHTS – LIQUIDITY POSITION

Continued strong liquidity:

- Liquid assets incl. marketable securities of SEK 169.3 million per 31 Mar 2020
- Liquidity to fund Mangoral clinical development and pre-commercial activities

Liquid assets incl. marketable securities (SEKm)



