

FORWARD LOOKING STATEMENTS

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ASCELIA PHARMA – ADVANCING ORPHAN ONCOLOGY



IMPROVING THE LIFE FOR PEOPLE WITH RARE ONCOLOGY-RELATED CONDITIONS

CURRENT ASSETS

Mangoral

- Global Phase 3 development ongoing
- For liver MRI in subset of overall population (Orphan Drug)

Oncoral

- Novel irinotecan tablet ready for Phase 2
- Focus on gastric cancer; potential in other cancer types

CAPABILITIES

People & Partners

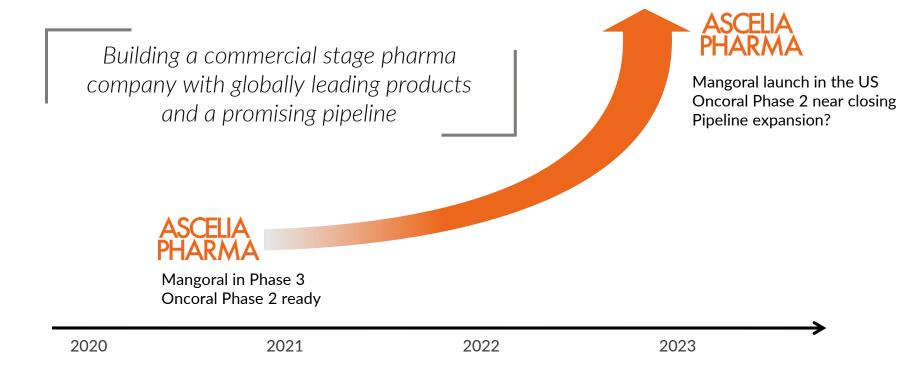
- Strong experienced team
- World class network of global KOLs and advisors
- · Supply chain in place

Financial

- Fully financed to reach substantial value creating milestones
- Listed on NASDAQ

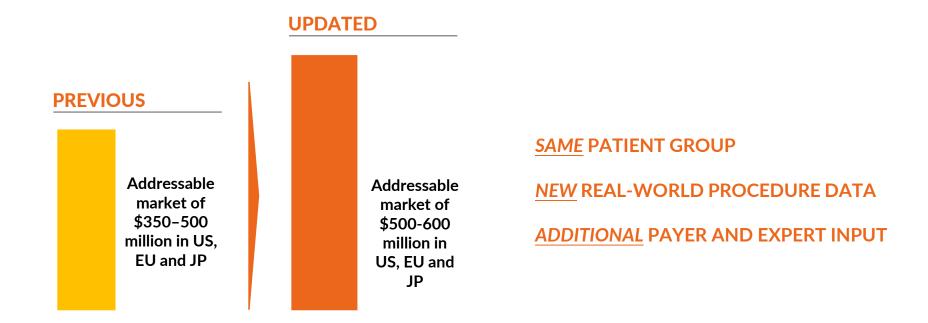


BUILDING ASCELIA PHARMA AND BUILDING VALUE





INCREASED MANGORAL ADDRESSABLE MARKET TO \$500-600M





BRIGHT FUTURE AHEAD - CREATING VALUE













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MANGORAL MARKET OPPORTUNITY AND COMMERCIAL PREPARATIONS

- Upgraded estimate of addressable market to \$500-600 million (previously \$350-500 million)
- Decision makers understand the value that Mangoral provides
- Launch preparations progress with a strong case for own commercialization in the US



WELL-DEFINED PATIENT POPULATION DRIVE POTENTIAL

Primary liver cancer or liver metastases

common in many cancer types and often the cause of mortality¹⁻⁴

Contrast enhanced MRI

the gold standard for detecting and visualizing metastases²

Severe kidney impairment

patients at risk of severe adverse events from standard MRI contrast agents based on gadolinium

Sources



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⁾ Oncotarget, 2016, 7(32):52307; Lung Cancer, 2014, 86:78-84 (6):29765 and ACR (American College of Radiology) Appropriateness Criteria

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

PREVIOUS ADDRESSABLE MARKET ESTIMATE

PREVALENCE AND MARKET RESEARCH

Patient population size based on epidemiology data

- Suspected liver metastases or primary liver cancer
- Severe kidney impairment
- Estimated scans per patient from guidelines

Unmet needs based on literature and survey with 85 US radiologists

Payer value market research based on input from 25 payers in key markets

PREVIOUS

Addressable market of \$350-500 million in US, EU and JP



ADDRESSABLE MARKET UPGRADED TO \$500-600 MILLION





Addressable market of \$500-600 million in US, FU and JP

SAME PATIENT GROUP

NEW REAL-WORLD PROCEDURE DATA¹

- Primary cancer type & liver imaging
- Kidney impairment
- Imaging frequency per patient

ADDITIONAL PAYER AND EXPERT INPUT²

(+50 stakeholders)

- Unmet need and clinical guidelines validation
- Value of Mangoral and required evidence
- Pricing potential and reimbursement paths



¹⁾ Market research with Decision Resources Group, 2020

\$350-500

million in US,

EU and JP





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AIMING TO BECOME THE PREFERRED OPTION FOR PATIENTS WITH SEVERE KIDNEY IMPAIRMENT

Illustrative

MRI CONTRAST AGENT LANDSCAPE

NSF safety concerns

Black-box warnings No concerns

No contrast agent available



Gadolinium based contrast agents

Gadolinium based contrast agents

Non-liver specific

Liver-specific

Indication

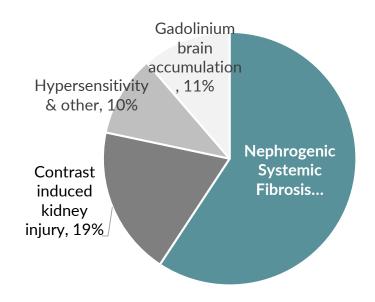
No contrast agent option is currently advised for liver imaging in patients with severe kidney impairment

Mangoral aims to be the only safe and effective liver imaging contrast agent for people with suspected primary liver cancer or metastases severely impaired kidney function

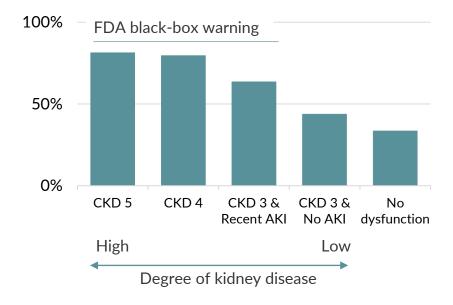


NSF RISK DRIVES CONTRAST AGENT DECISIONS

NSF remains the most concerning aspect of gadolinium-based contrast agents¹



MRI without gadolinium-based contrast agent is preferred for patients at risk²





DECISION MAKERS UNDERSTAND THE VALUE



MANGORAL DECISION STAKEHOLDERS



Agreement Mangoral addresses needs





ADDRESSING UNMET NEEDS OF PATIENTS AND PROVIDERS

CLEAR VALUE PROPOSITION TO PATIENTS, PHYSICIANS AND HEALTH CARE SYSTEMS

85% of clinicians in a survey are likely or extremely likely to use Mangoral for target patient population¹

No MRI contrast agent advised

for patients with severe renal impairment or acute kidney failure²

Clear target patient population

Improved visualisation

of focal liver lesions (incl. metastases) compared to unenhanced MRI

+33% more lesions³

Early detection

of focal lesions and metastases allows early intervention and higher survival rate

94% clinicians confirm⁴

Sources:



¹⁾ Market research by Back Bay Life Science Advisors with survey of 84 US radiologists

²⁾ Based on ACR clinical guidelines and regulatory drug class warning for gadolinium-based contract agents in patients with severe renal impairment (an eGFR < 30 ml/min/1.73 m²) or acute kidney failure.

³⁾ Outcomes from Phase 1 and 2 studies

⁴⁾ 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?



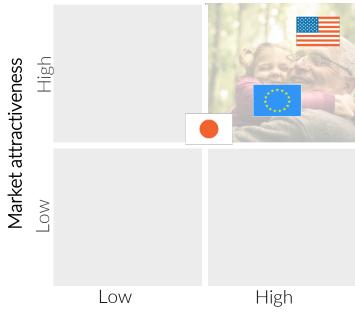
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THE US IS THE MOST IMPORTANT MARKET OPPORTUNITY



CLEAR MARKET PRIORITIES



Speed and clarity of path to market

US

represents the most attractive market for Mangoral launch and has a clear regulatory and market access pathway

EU and Japan

represent the next priority markets

Other markets

under further evaluation, incl. China

MARKET SPECIFIC VALUE MAXIMIZING COMMERCIALIZATION

Illustrative





STRONG CASE FOR OWN COMMERCIALIZATION IN THE US



STRONG RELATIONSHIPS IN THE US

SPARKLE Phase 3 Study sites with leading US radiologists at approximately 15 sites, incl.

- Yale University School of Medicine
- Massachusetts General Hospital
- Standard School of Medicine
- Harvard Medical School

Hepatic Impairment Study Clinical research site Texas Liver Institute



partner, New Jersey





Imaging experts New York

STRONG CASE FOR OWN US TEAM

Attractive potential

- Strong payer value and market access path
- Sizeable target patient population
- Clear clinical decision makers

US capability

- Sales team of ~20 FTEs reach priority physicians
- Commercial and cross-functional support team
- Local logistics and distribution partnerships
- Leverage global synergies

Building an attractive top-line and retaining profit in Ascelia Pharma



WELL DEFINED DECISION MAKERS IN THE US



DECISION MAKERS TO REACH

Payers

Coverage expected by Public and Commercial plans

- Medicare/Medicaid cover ~70% of Mangoral patient population¹
- Value evidence requirements identified for formulary assessment and procurement

Hospitals/ clinics

Reachable hospitals/clinics

- ~750 hospitals/clinics perform ~75% of liver MRI procedures¹
- ~400 hospitals/clinics serve ~75% of patients with kidney impairment¹

Radiologists main clinical decision makers

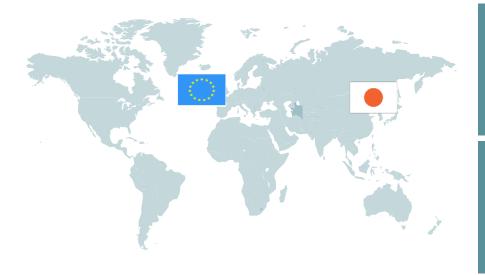
- Radiologists drive 95% of contrast agent decisions; nephrologist involved²
- ~2,000 radiologists perform regular liver MRIs for patients with kidney impairment¹





OUTLOOK FOR MARKET OPTIMAL LAUNCH STRATEGY

REST OF WORLD PARTNERING



OPTIMAL VALUE

Focus on Europe and Japan

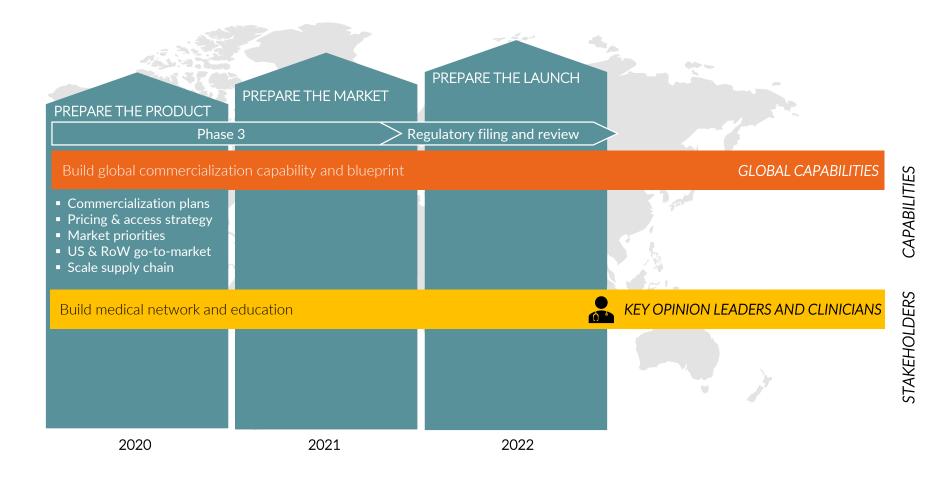
- Sizeable target patient population
- Maturity of MRI practice
- Pricing and reimbursement opportunity defined
- Regulatory pathway clear
- Other markets under assessment, e.g. China

Partnering opportunity

- Focused launches to reach target clinicians and patient population
- Ideal partnership based on capabilities and strategic match
- Leverage global synergies to maximize value

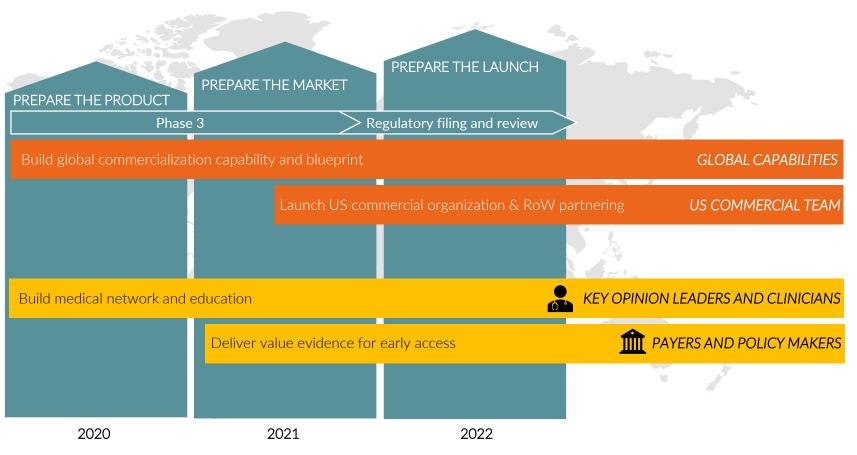


MANGORAL GO-TO-MARKET: BLUEPRINT READY IN 2020

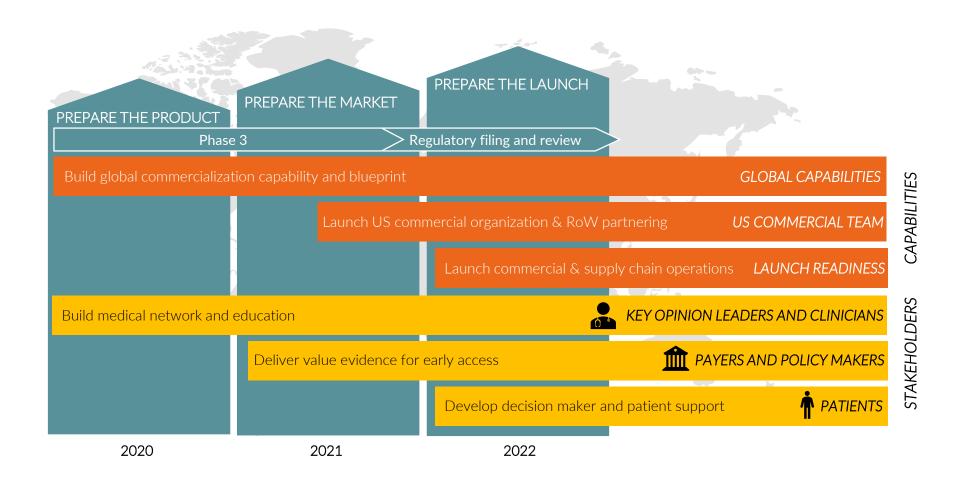


CAPABILITIES

MANGORAL GO-TO-MARKET: LAUNCH US TEAM IN 2021



MANGORAL GO-TO-MARKET: LAUNCH READY END OF 2022





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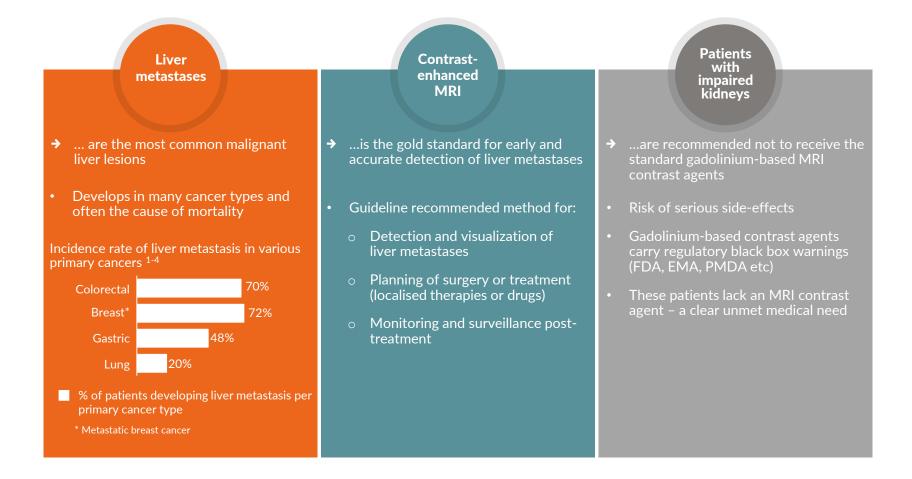
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CLEAR UNMET MEDICAL NEED

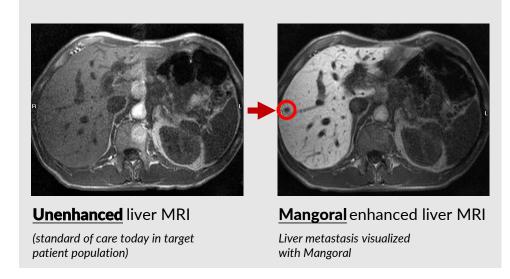




MANGORAL - ADVANCING LIVER IMAGING

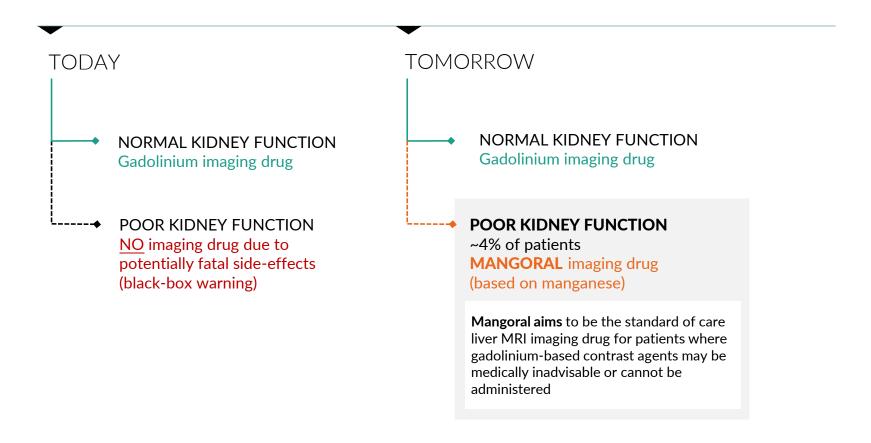
MANGORAL

- Oral manganese-based diagnostic drug for liver MRI
- Targeting patients with severe renal insufficiency
- These patients are at risk of potentially fatal side effects from the products on the market based on gadolinium
- Orphan Drug Designation from FDA
- Ongoing Phase 3 study SPARKLE





MANGORAL - ADDRESSING THE UNMET MEDICAL NEED





ONGOING PHASE 3 STUDY - SPARKLE

Strong data package for Mangoral

Six phase 1 and 2 clinical studies completed

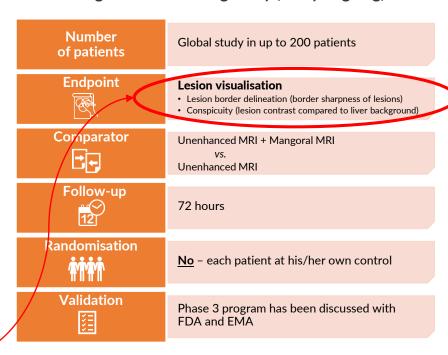
Consistent strong efficacy readout and safety profile

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

Phase 3 registration-enabling study (study ongoing)





WORLD-CLASS CLINICS PARTICIPATING IN SPARKLE

Global Phase 3 study (SPARKLE)

- 40–50 clinical sites including:
 - Yale University School of Medicine, USA
 - Harvard Medical School, USA
 - Stanford School of Medicine, USA
 - Charité Universitätsmedizin, Germany
 - Karolinska University Hospital,
 Sweden

Leading expert radiologists participating

- Strong relationship and support
- Awareness of Mangoral
- Validates the unmet medical need



MANGORAL PHASE 3 DEVELOPMENT PROGRESSING

Mangoral indication	Phase 1	Phase 2	Phase 3	Filing	Market
Visualization of focal liver lesions:Liver metastasesPrimary liver tumorsMalignant or benign	Completed	Completed	Ongoing 2020 - 2H 2021	1H 2022	Q4 2022- 1H 2023

