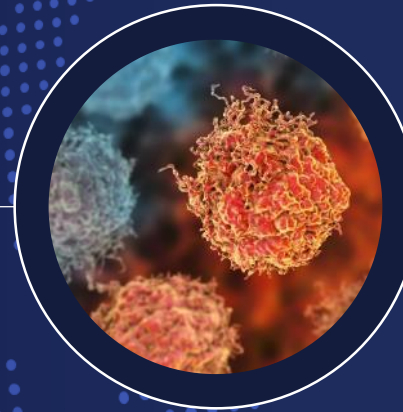




Baird 2021 Global Healthcare Conference Presentation

September 15, 2021



FIND > FIGHT > FOLLOW™

Safe Harbor Statements

Cautionary Statement Regarding Forward-Looking Statements

This document contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, as amended, that are subject to risks and uncertainties and are made pursuant to the safe harbor provisions of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. Forward-looking statements may be identified by their use of terms such as “anticipate,” “believe,” “confident,” “could,” “estimate,” “expect,” “intend,” “may,” “plan,” “predict,” “project,” “target,” “will” and other similar terms. Such forward-looking statements are based upon current plans, estimates and expectations that are subject to risks and uncertainties that could cause actual results to materially differ from those described in the forward-looking statements. The inclusion of forward-looking statements should not be regarded as a representation that such plans, estimates and expectations will be achieved. Readers are cautioned not to place undue reliance on the forward-looking statements contained herein, which speak only as of the date hereof. The Company undertakes no obligation to publicly update any forward-looking statement, whether as a result of new information, future developments or otherwise, except as may be required by law. Risks and uncertainties that could cause our actual results to materially differ from those described in the forward-looking statements include : (i) the impact of the global COVID-19 pandemic on our business, financial conditions and prospects, and on the timing and enrollment of our clinical trials; (ii) continued market expansion and penetration for our commercial products, particularly DEFINITY, in the face of segment competition and potential generic competition, including as a result of patent and regulatory exclusivity expirations; (iii) our ability to successfully launch PYLARIFY as a commercial product, including (A) our ability to obtain U.S. Food and Drug Administration (“FDA”) approval for additional PET manufacturing facilities (“PMFs”) that could manufacture PYLARIFY, (B) the ability of those PMFs to supply PYLARIFY to customers, and (C) our ability to sell PYLARIFY to customers; (iv) the global Molybdenum-99 supply; (v) our products manufactured at Jubilant HollisterStier and our recently-approved modified formulation of DEFINITY (“DEFINITY RT”) to be commercially manufactured at Samsung Biologics; (vi) the continued integration of the Progenics products and product candidate portfolio into our business following the Progenics Acquisition; (vii) our ability to use in-house manufacturing capacity; (viii) the Company's ability to successfully launch aPROMISE as a commercial product; (ix) the efforts and timing for commercialization of products or new clinical applications for our products that we or our strategic partners may develop, including flurpiridaz F 18; (x) our ability to develop highly contextualized assessments of disease burden using artificial intelligence (“AI”); and (xi) the risk and uncertainties discussed in our filings with the Securities and Exchange Commission (including those described in the Risk Factors section in our Annual Reports on Form 10-K and our Quarterly Reports on Form 10-Q).

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Non-GAAP Financial Measures

The Company uses non-GAAP financial measures, such as adjusted net income and its line components; adjusted net income per share - fully diluted; and free cash flow. The Company's management believes that the presentation of these measures provides useful information to investors. These measures may assist investors in evaluating the Company's operations, period over period. However, these measures may exclude items that may be highly variable, difficult to predict and of a size that could have a substantial impact on the Company's reported results of operations for a particular period. Management uses these and other non-GAAP measures internally for evaluation of the performance of the business, including the allocation of resources and the evaluation of results relative to employee performance compensation targets. Investors should consider these non-GAAP measures only as a supplement to, not as a substitute for or as superior to, measures of financial performance prepared in accordance with GAAP.



YESTERDAY

65 years of imaging innovation

*Most used
radiopharmaceutical
imaging agent in the
U.S.¹*

*Nearly 50 years of
Technetium Tc-99m
generator
manufacturing
expertise*

*#1 ultrasound
enhancing agent used
in the U.S. for
20 years²*

(1) Sestamibi was the most used radiopharmaceutical in the U.S. based on procedure volume, DRG 2019 Imaging Market Guide.

(2) DRG Echo Monthly Monitor.

Precision Diagnostics

Our leading diagnostic products assist healthcare professionals (HCPs) in Finding and Following diseases in non-oncologic conditions

Radiopharmaceutical Oncology

Diagnostics and therapeutics that aid HCPs in Finding, Fighting and Following cancer

Strategic Partnerships and Other

Strategic partnerships with a focus on enabling precision medicine with biomarkers, digital solutions and radiotherapeutic platforms

Diversified Portfolio Positions the Company for Sustained Revenue Growth

THREE PORTFOLIO CATEGORIES

1

PRECISION DIAGNOSTICS

DEFINITY
VIAL FOR (Perflutren Lipid Microsphere)
INJECTABLE SUSPENSION

DEFINITY RT
(Perflutren Lipid Microsphere)
INJECTABLE SUSPENSION

TechneLite
Technetium Tc-99m
Generator

**Xenon
Xe 133 Gas**

NEUROLITE
Kit for the Preparation of Technetium
Tc 99m Bicisate for Injection

Cardiolite
Kit for the Preparation of
Technetium Tc-99m Sestamibi for Injection

Thallium
Thallous Chloride
TI 201 Injection

Gallium
Gallium Citrate
Ga 67 Injection

2

RADIOPHARMACEUTICAL ONCOLOGY

PYLARIFY
Piflufolastat F 18 Injection

AZEDRA
iobenguane I 131 injection for
intravenous use

QUADRAMET
(SAMARIUM SM 153 LEXIDRONAM INJECTION)

1095*

LMI 1195*

3

STRATEGIC PARTNERSHIPS & OTHER

Pharma Services: Biomarkers

NTI-1309* NORIA

NM-01* NANOMAB

BAYER

POINT
BIOPHARMA

reflexion**
REGENERON**

Microbubble Partnerships***

CARTHERA
Advanced Brain Therapy Through Innovation

CEREVAST™

INSIGHTEC®

AHN

aBSI
AUTOMATED BONE SCAN INDEX

aPROMISE

RELISTOR®
methylnaltrexone bromide

BAUSCH+Health

piflufolastat F 18* **

CURIUM™
EU ONLY

flurpiridaz*

GE Healthcare

1404*

ROTOP

* Product candidates.

** Revenue will be reported under the Radiopharmaceutical Oncology category.

*** Revenue will be reported under the Precision Diagnostic category.

Highlighted Products

DEFINITY
VIAL
FOR (Perflutren Lipid Microsphere)
INJECTABLE SUSPENSION

 **PYLARIFY**
Piflufolastat F 18 Injection


AZEDRA
iobenguane I 131 injection for
intravenous use

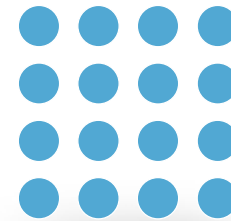

TechneLite
Technetium Tc99m
Generator

 **aPROMISE**



PRECISION DIAGNOSTICS

Microbubbles DEFINITY brand



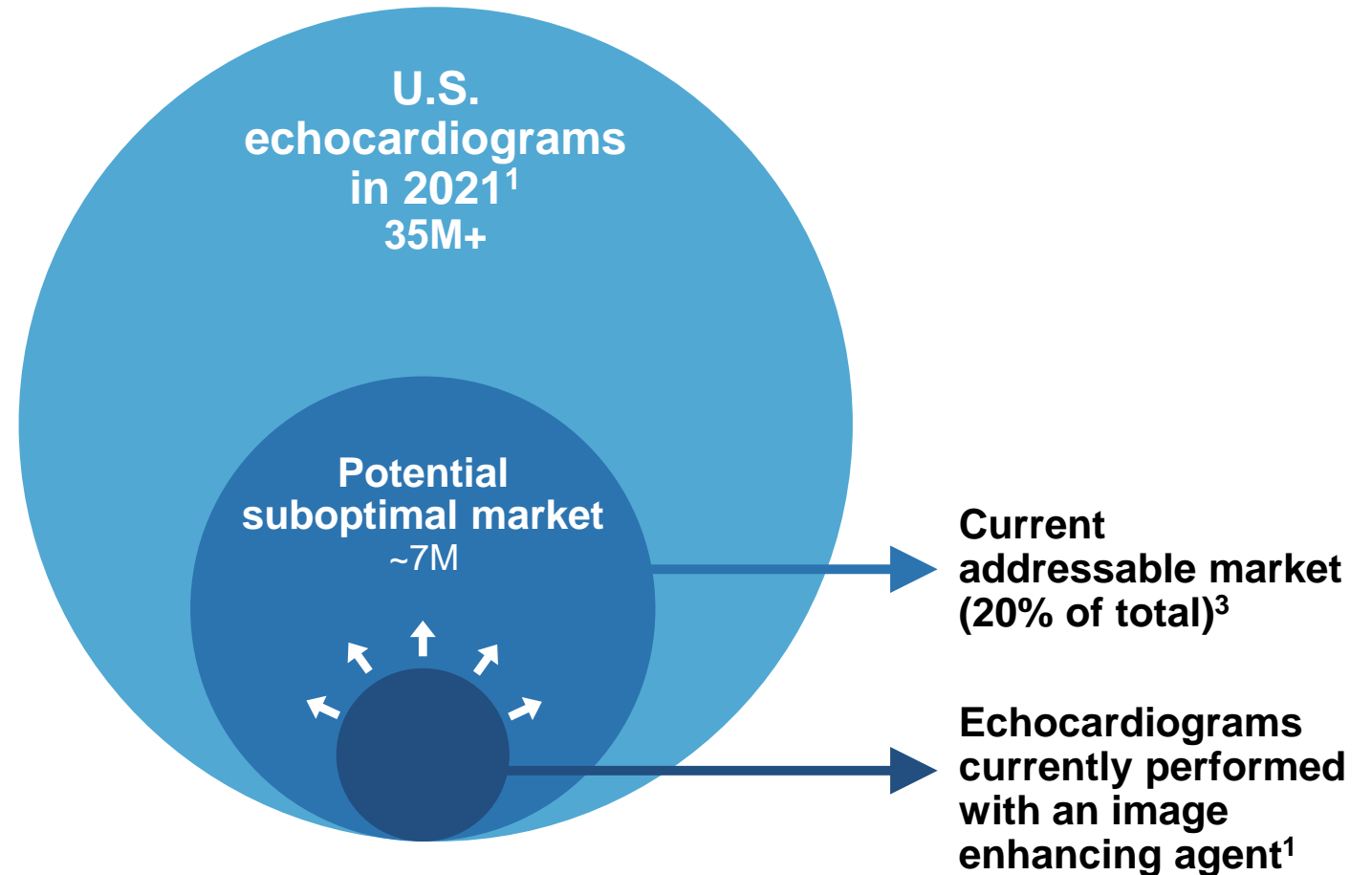
Significant U.S. Echocardiography Market Opportunity Remains for DEFINITY

U.S. Market for Echocardiograms Continues to Grow ~2% Annually¹



DEFINITY
VIAL FOR (Perflutren Lipid Microsphere)
INJECTABLE SUSPENSION

**80%+
market share
among agents
used in
suboptimal
echocardiograms²**



Circles not drawn to scale.

(1) Based on historical trends and the most current AMR data for Q1 2021, we estimate there will be 35M+ echocardiograms in the U.S. for CY 2021.

(2) Lantheus estimate.

(3) 20% of echocardiograms result in sub-optimal images. Source: Lindner JR. J. Am. Coll. Cardiol. 2017;1-9.

DEFINITY: A Trusted Choice for 20 Years

#1 Ultrasound Enhancing Agent

DEFINITY
VIAL FOR (Perflutren Lipid Microsphere)
INJECTABLE SUSPENSION



DEFINITY RT
(Perflutren Lipid Microsphere)
INJECTABLE SUSPENSION

NOW APPROVED

- Significant market opportunity remains
- Q2 2021 DEFINITY demand exceeded pre-COVID-19 levels
- As of Q2 2021, >50% of promotional efforts were in-person, up from ~10% at the start of 2021
- Virtual engagement of customers also continues
- Estimated timing of in-house DEFINITY manufactured product commercially available - early 2022
 - Provides supply chain redundancy
 - Margin expansion opportunity

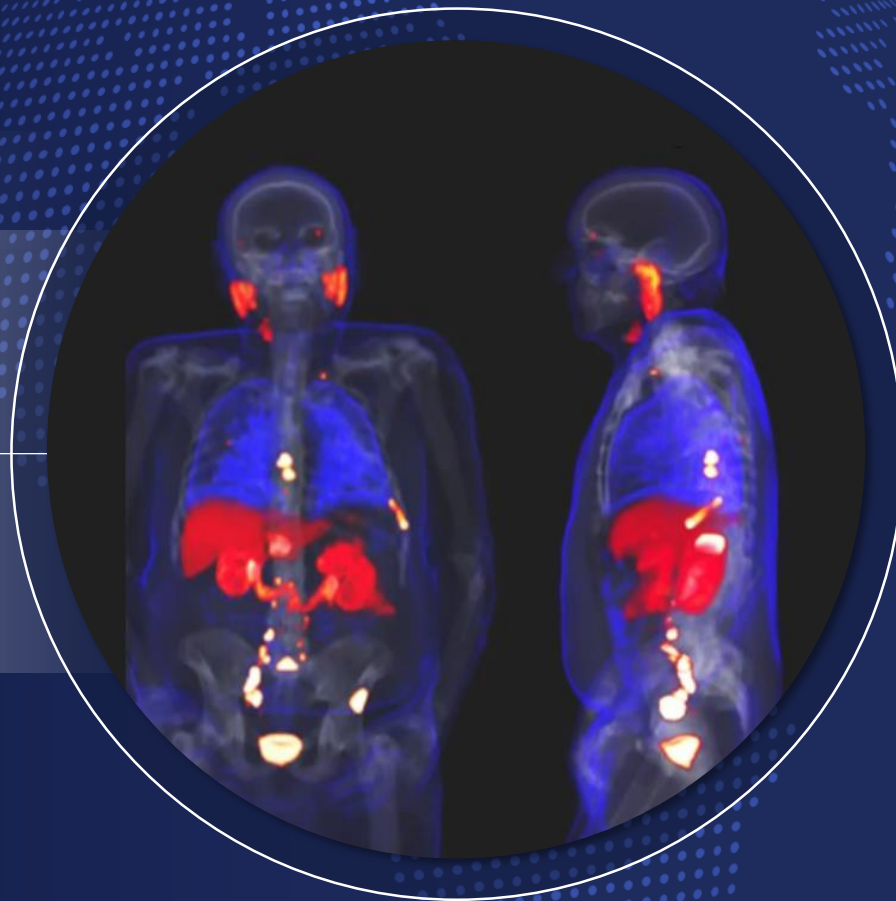
- Room temperature formulation
- Provides customer flexibility
- Well suited for inclusion in product kits utilizing microbubbles for therapeutic applications
- Orange Book listed patents through 2035

Currently under development for inclusion in kits utilizing microbubbles for therapeutic applications

PARTNERSHIPS WITH



RADIOPHARMACEUTICAL ONCOLOGY





PYLARIFY®

Piflufolastat F 18 Injection

NOW APPROVED

PYLARIFY® (piflufolastat F 18) Injection is a radioactive diagnostic agent indicated for positron emission tomography (PET) of prostate-specific membrane antigen (PSMA) positive lesions in men with prostate cancer:

- with suspected metastasis who are candidates for initial definitive therapy.
- with suspected recurrence based on elevated serum prostate-specific antigen (PSA) level.

PYLARIFY® [package insert]. North Billerica, MA: Progenics Pharmaceuticals, Inc., a Lantheus company.

Prostate Cancer is the Second Most Common Cancer in American Men¹

2021

Prostate
Cancer
Estimates

~248,530 new cases¹

~34,130 deaths¹

1:8 Diagnosed with prostate cancer during his lifetime¹

>3.1M Are living with prostate cancer today¹

Up to 50% Will experience a recurrence²

1:41 Will die of prostate cancer¹

60%
65 or older
Average age of diagnosis is ~66

(1) American Cancer Society. *Cancer Facts & Figures 2021*. Atlanta: American Cancer Society; 2021.

(2) Ceci & Fanti. PSMA-PET/CT imaging in prostate cancer: why and when. *Clinical and Translational Imaging* volume 7, pages 377–379 (2019).

Prostate Cancer PET Imaging: Large Addressable Market

Eligible Patients

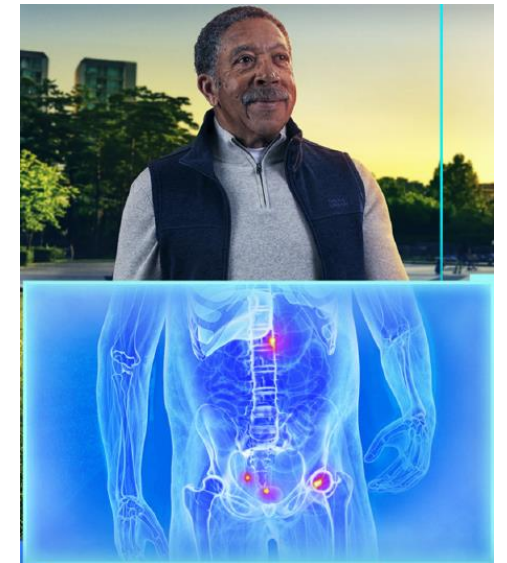
~170K

Comprised of 130,000+ patients with suspected recurrence and 40,000+ patients with suspected metastasis¹



Annual Potential

\$600M+²



Not actual patients.

(1) Scher HI, Solo K, Valant J, Todd MB, Mehra M. 2015. Prevalence of Prostate Cancer Clinical States and Mortality in the United States: Estimates Using a Dynamic Progression Model. PloS one 10: e0139440.

(2) Addressable market based on: current management estimates, internal data and observed market price.

Advantages of PYLARIFY



PET IMAGING^{1,2}

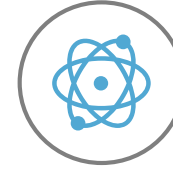
PET/CT Scans:

- Have high detection rates of metastatic disease even in patients with low PSA
- Are not limited by the size of lymph nodes in detection of nodal disease
- Can visualize bone metastases when CT or bone scan cannot



PSMA TARGETING³

- PYLARIFY works by binding to PSMA, a protein that is overexpressed on the surface of more than 90% of primary and metastatic prostate cancer cells which enables the reader of the PET/CT scan to detect and locate the disease



F 18 RADIOISOTOPE⁴

- Attributes help deliver high quality, clear, detailed and reproducible images
- Cyclotron production offers high batch capacity
- 110-minute half-life allows for broad geographic distribution and clinical flexibility in administration



TECHNOLOGY^{5,6}

- aPROMISE – a proprietary, patent-protected artificial intelligence medical device software developed to assist with the reading and quantification of PYLARIFY scans
- Potential benefits of reader efficiency and reproducibility of PSMA PET/CT image assessments
- Regulatory Clearances:
U.S. - 510(k)
E.U. - CE mark

(1) Alipour R, Azad A, Hofman MS. Guiding management of therapy in prostate cancer: time to switch from conventional imaging to PSMA PET? Ther Adv Med Oncol. 2019;11:1-14. doi:10.1177/1758835919876828.; (2) Rousseau E, Wilson D, Lacroix-Poisson F, et al. A prospective study on 18F-DCFPyL PSMA PET/CT imaging in biochemical recurrence of prostate cancer. J Nucl Med. 2019;60(11):1587-1593. doi: 10.2967/jnumed.119.226381; (3) Ceci & Fanti. PSMA-PET/CT imaging in prostate cancer: why and when. Clinical and Translational Imaging volume 7, pages 377–379 (2019); (4) Werner RA, Derlin T, Lapa C, et al. 18F-labeled, PSMA-targeted radiotracers: leveraging the advantages of radiofluorination for prostate cancer molecular imaging. Theranostics. 2020;10(1):1-16; (5) Deep Learning-Enabled Comprehensive Detection and Quantification of 18FDCFPyL (PyL-PSMA) PET/CT. Brynolfsson J, Johnsson K, Sahlstedt H, Richter J, et al, OP-548, 1006: Cutting Edge Science Track – TROP Session: AI -Radiomics and Modelling, EANM 2020; (6) miPSMA Index: Comprehensive and Automated Quantification of 18F-DCFPyL (PyL-PSMA) PET/CT for Prostate Cancer Staging. Johnsson K, Sahlstedt H, Brynolfsson J, et al. J Nucl Med. 2020;61(1):1435.

Investing in our Commercial Infrastructure



Hiring and Training a **DEDICATED FIELD SALES TEAM**

Supported by contracting specialists and home office resources



MARKET ACCESS TEAM

Laying the groundwork for future reimbursement coverage, working with both governmental and commercial payers

Working to obtain appropriate coding, pass-through status and progress with commercial payers to ensure appropriate coverage or payment



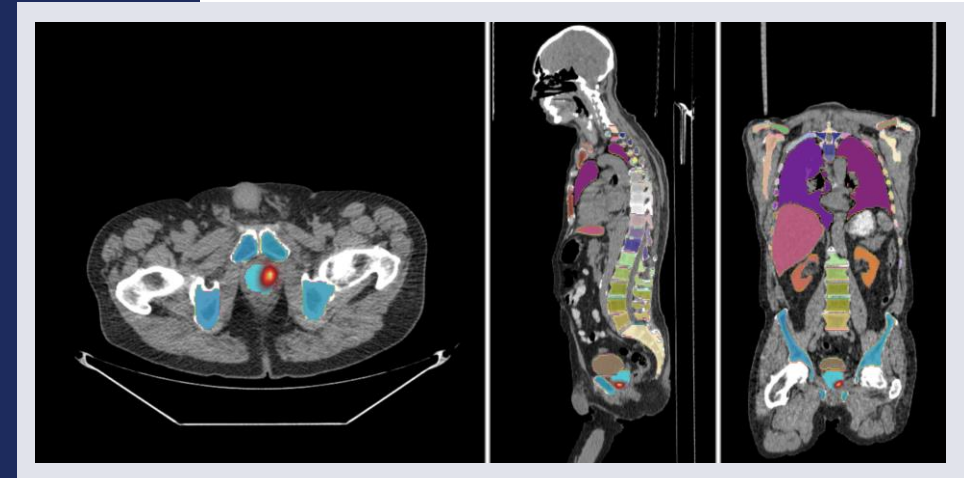
COORDINATION

Working with our PMF partners, commercial teams and commercial and government payers to make PYLARIFY broadly available to the prostate cancer community and ensure patients and facilities can be adequately reimbursed and covered

aPROMISE: Improves Consistency and Productivity of PSMA Imaging

FEATURES

- aPROMISE¹ is the only FDA-cleared artificial intelligence-based (AI) medical device software that allows HCPs and researchers to perform quantitative assessment of PSMA PET/CT images in prostate cancer
- aPROMISE automates body segmentation and marking, quantifying and reporting suspicious lesions in their anatomical context



BENEFITS

- **Improves Consistency:** Provides enhanced consistency in quantitative analysis and standardized reports and has demonstrated increased efficiency and reproducibility of clinicians' PSMA PET/CT image assessments^{2, 3}
- **Productivity:** Significant reduction (30-40%) in read time²

(1) Regulatory Clearances: U.S. - 510(k); E.U. - CE mark

(2) Nickols, N, et al., JNM 2021.

(3) Johnsson K, et al., EJNMMI 2021.



- Deep learning segmentation of anatomical context in low dose CT of PET/CT
- Individual colors represent the respective segmented organs

aPROMISE enables physicians to automate the laborious tasks and reproducibly quantify PSMA uptake in PET/CT images.

RADIOPHARMACEUTICAL ONCOLOGY



AZEDRA: Treating Patients with Pheochromocytoma and Paraganglioma (PPGL)

Rare cancers with high unmet need

652 – 2,608 patients diagnosed each year in US^{1,2}

15% of cases are advanced at diagnosis¹

Disease recurs in 16.4% of patients treated surgically³

Tumor progression is the most frequent cause of death

The 5-year overall survival of patients with advanced PPGL varies, but can be as low as 12%⁴



First and Only FDA Approved Treatment for Patients with PPGL

COMMERCIAL AND MEDICAL AFFAIRS

- New marketing initiatives introduced to increase awareness of PPGL and treatment options among referring physicians
- Implementing a new Medical Affairs plan to facilitate peer-to-peer education

MANUFACTURING

- Increased the manufacturing staff at our Somerset facility to ensure ongoing adequate product supply
- Constructing an additional manufacturing suite* to provide redundancy for AZEDRA manufacturing, as well as increased overall future capacity of our iodine-based products.

Additional centers of excellence are offering treatment to patients across the U.S.

* Subject to FDA approval

(1) Martucci VL, Pacak K. Curr Probl Cancer. 2014;38(1):7-41.

(2) US Census Bureau. US and World Population Clock. <https://www.census.gov/popclock/>. Accessed October 1, 2017.

(3) Kantorovich V, Eisenhofer G, Pacak K. Ann N Y Acad Sci. 2009;1148:462-468.

(4) Long-Term Survival and Safety from a Multi-Center, Open-Label Pivotal Phase 2 Study of AZEDRA IN Patients with Unresectable, Locally Advanced or Metastatic Pheochromocytoma or Paraganglioma ASCO Abstract 2019, Noto et al.

STRATEGIC PARTNERSHIPS & OTHER

Pharma Services & Other Partnerships



Pharma Services: Enabling Precision Medicine with Biomarkers and Digital Solutions that Augment Diagnostic Productivity

Prostate

piflufolastat F 18



- Precision biomarkers offered to pharmaceutical companies developing therapies in prostate cancer
 - Clinical supply agreements with Regeneron, Bayer and POINT BioPharma for use of piflufolastat F 18 in prostate cancer drug development programs
 - Development and commercialization collaboration with RefleXion Medical, Inc. to evaluate the use of piflufolastat F 18 with biology-guided radiotherapy in prostate cancer

Immuno-Oncology

NM-01 – PDL1

- Acquired rights to NM-01 from NanoMab, a PD-L1 imaging biomarker product candidate
 - For potential use by pharmaceutical companies and academic centers conducting clinical trials of immuno-oncology therapies, including combination therapies

Pan-Oncology

NTI-1309 – FAP

- Acquired rights to NTI-1309, an innovative imaging biomarker that targets fibroblast activation protein (FAP), from Ratio Therapeutics (formerly Noria Therapeutics)
 - FAP is an emerging target with broad potential applicability in oncology
 - We are integrating NTI-1309 into our portfolio of imaging biomarkers as part of our Pharma Services offering. Upon further clinical development, we will assess options to bring NTI-1309 to market as a diagnostic or potentially a therapeutic agent.

CURRENT PARTNERS



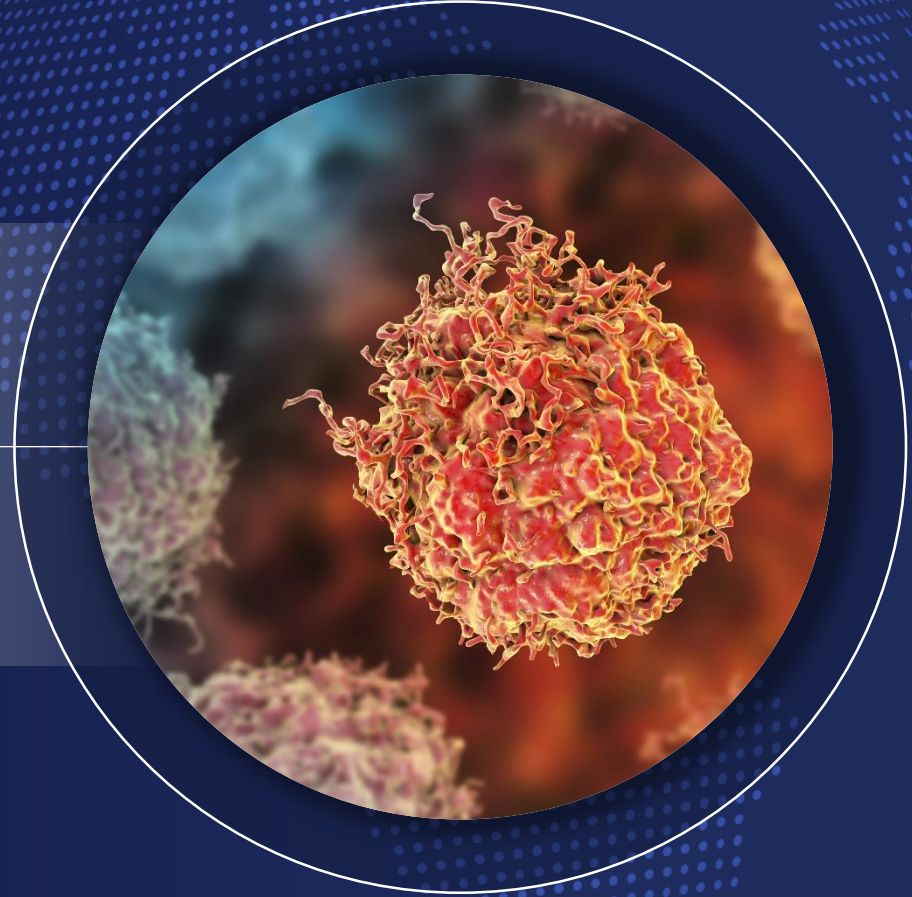
REGENERON

reflexion

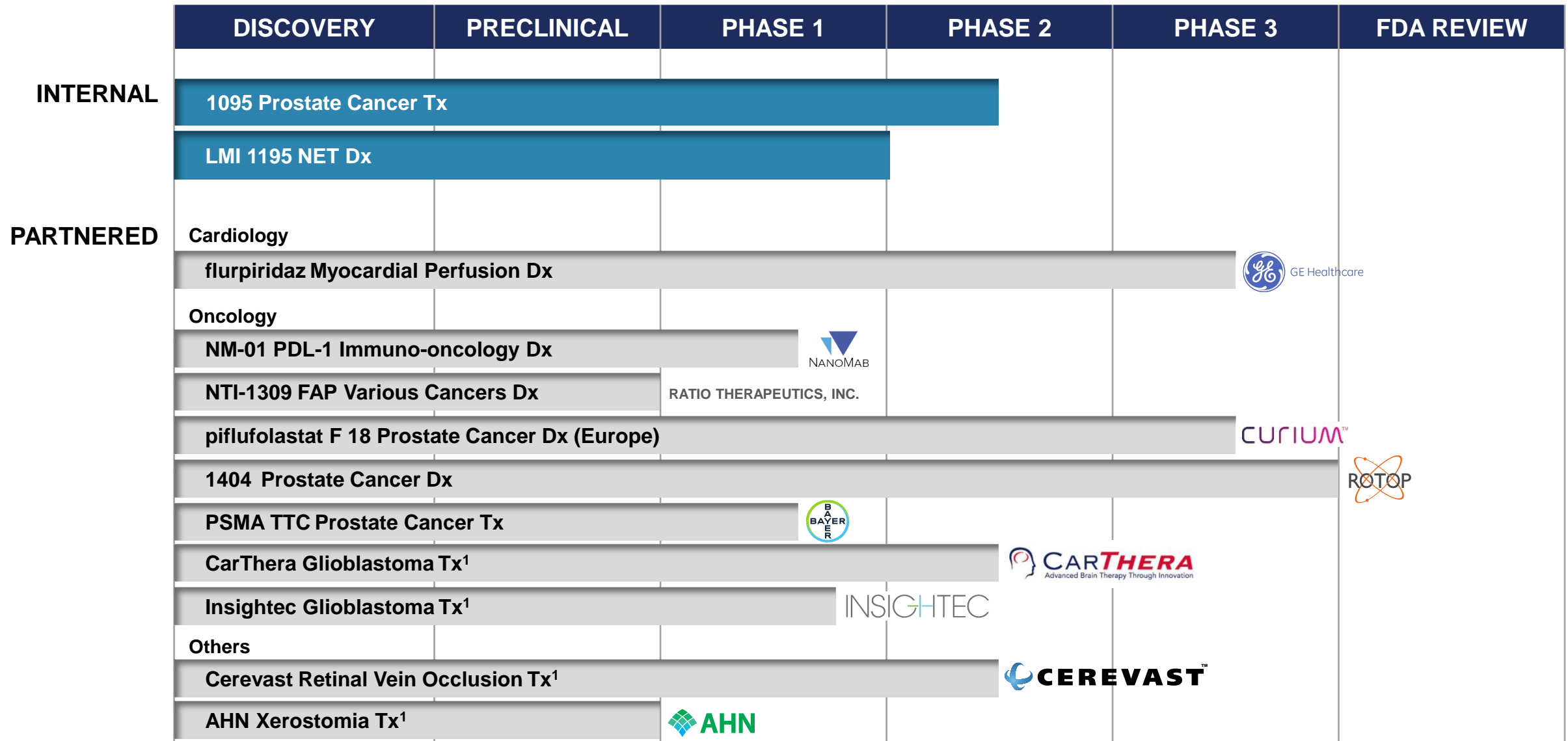
Ratio
Therapeutics



Pipeline



Robust Pipeline with Promising Value Drivers



(1) Using Lantheus microbubble.



Appendix

Piflufolastat F 18: Progressing Use as a Biomarker in Prostate Cancer Therapeutic Trials

Ongoing Clinical Trials



Phase 3 Pivotal Trial

- Lutetium-labeled PSMA agent in patients with mCRPC

REGENERON



Phase 1 Trial



Phase 1/2 Trial

- PSMAxCD28 bispecific antibody in combination with cemiplimab (PD-1 inhibitor) in patients with mCRPC
- PSMAxCD3 bispecific antibody in combination with cemiplimab in patients with mCRPC



Phase 1 Trial

- Thorium-labeled PSMA antibody in patients with mCRPC



Phase 2 Trial

- Iodine-labeled PSMA agent (1095) in patients with mCRPC



Piflufolastat F 18 used to assess PSMA expression levels in clinical trials for prostate cancer therapeutics

Strategic Partnerships Across Our Portfolio

Oncology

piflufolastat F 18

REGENERON



CURIUM™

reflexion

1404



PSMA TTC



aBSI



GE Healthcare

Biomarker

RATIO
THERAPEUTICS, INC.



Microbubble

CEREVAST™ INSIGHTEC®



RELISTOR

BAUSCH+Health

flurpiridaz F18



GE Healthcare

1095 Phase 2 Trial Progressing

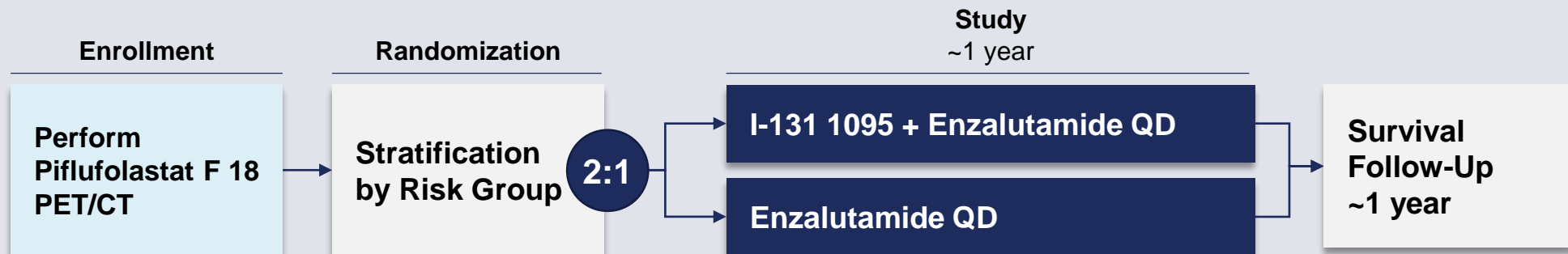
PSMA-targeted small molecule therapeutic for metastatic castration-resistant prostate cancer (mCRPC)

PSMA-targeted iodine-131 labeled small molecule that is designed to deliver beta radiation directly to prostate cancer cells with minimal impact on the surrounding healthy tissues



ARROW
Phase 2 Study

25 clinical sites in the U.S. and Canada support enrollment for our multicenter, randomized, controlled study



Data from proof-of-concept trial will be used to determine next steps in the development plan for 1095

U.S. Approved Products

aBSI
AUTOMATED BONE SCAN INDEX

 **aPROMISE**


AZEDRA[®]
iobenguane | 131 injection for intravenous use

 **Cardiolite**[®]
Kit for the Preparation of
Technetium Tc99m Sestamibi for Injection

DEFINITY[®]
VIAL FOR (Perflutren Lipid Microsphere)
INJECTABLE SUSPENSION

DEFINITY RT
(Perflutren Lipid Microsphere)
INJECTABLE SUSPENSION

Gallium
Gallium Citrate
Ga 67 Injection

NEUROLITE[®]
Kit for the Preparation of Technetium
Tc 99m Bicisate for Injection

 **PYLARIFY**[®]
Piflufolastat F 18 Injection

QUADRAMET[®]
(SAMARIUM SM 153 LEXIDRONAM INJECTION)

RELISTOR[®]
methyl naltrexone bromide

Techne[®]**Lite**
Technetium Tc 99m
Generator

Thallium
Thallous Chloride
Tl 201 Injection

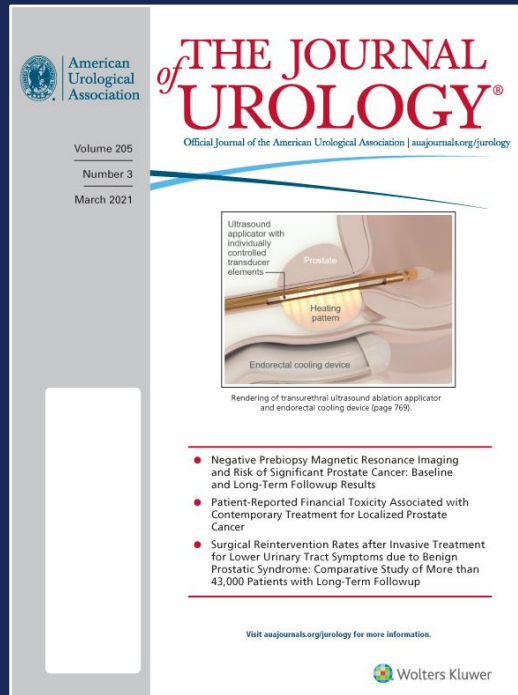
Xenon
Xe 133 Gas

PYLARIFY: Strong Diagnostic Performance Across the Prostate Cancer Disease Continuum



CONDOR Study

Diagnostic Performance of ^{18}F -DCFPyL-PET/CT in Men with Biochemically Recurrent Prostate Cancer: Results from the CONDOR Phase 3, Multicenter Study



OSPREY Study

A Phase 2/3 Prospective Multicenter Study of Diagnostic Accuracy of Prostate-Specific Membrane Antigen PET/CT with ^{18}F -DCFPyL in Prostate Cancer Patients (OSPReY)

PYLARIFY Pivotal Studies

CONDOR

OSPReY



~600 subjects

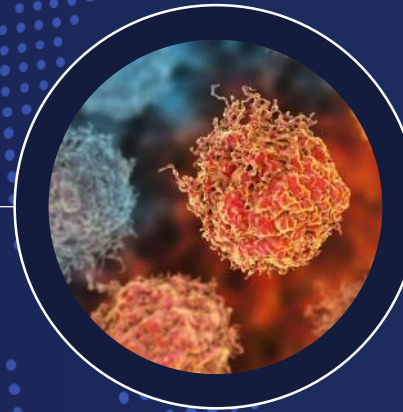
PYLARIFY NDA

Two pivotal trials supported the approval of the NDA which was granted Priority Review



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