



CORPORATE PRESENTATION

January 2021

NASDAQ:ATNX

www.athenex.com

Forward Looking Statements

Except for historical information, all of the statements, expectations, and assumptions contained in this presentation constitute forward-looking statements. These statements include descriptions regarding the intent, belief or current expectations of Athenex, Inc. (the “Company”), its officers or its management with respect to the consolidated results of operations and financial condition of the Company. These statements can be recognized by the use of words such as “anticipate,” “believe,” “consider,” “continue,” “could,” “estimate,” “expect,” “explore,” “foresee,” “guidance,” “intend,” “likely,” “may,” “opportunity,” “plan,” “potential,” “predict,” “preliminary,” “probable,” “project,” “promising,” “seek,” “should,” “will,” or words of similar expressions. Such forward-looking statements are not guarantees of future performance and involve risks and uncertainties. Actual results might differ materially from those explicit or implicit in the forward-looking statements. Important factors that could cause actual results to differ materially include: the development stage of our primary clinical candidates and related risks involved in drug development, clinical trials, regulation, manufacturing and commercialization; our ability to obtain and maintain regulatory approvals for our product candidates; our reliance on third parties for success in certain areas of Athenex’s business; our history of operating losses and need to raise additional capital to continue as a going concern; our ability to service our existing and any future debt obligations and comply with financial and restrictive covenants contained in the agreements governing our indebtedness; risks and uncertainties related to the COVID-19 pandemic and its potential impact on our operations, cash flow and financial condition; our ability to integrate acquired assets and businesses into our existing operations; competition; intellectual property risks; risks relating to doing business internationally and in China; the risk of production slowdowns or stoppages or other interruptions at our Chongqing facilities; and the other risk factors set forth from time to time in the Company’s public filings with the U.S. Securities and Exchange Commission (the “SEC”), copies of which are available for free in the Investor Relations section of the Company’s website at <https://ir.athenex.com/financial-information/sec-filings> or upon request from the Company’s Investor Relations Department. Information about the Company and any forward-looking statements contained in this presentation are provided and made only as of 11 January 2021 and should not be relied upon as predictions of future events. The Company assumes no obligation and does not undertake to revise or update forward-looking statements to reflect future events or circumstances, except as required by law.

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Our historical results are not necessarily indicative of results to be expected for any future period. The financial data contained in this presentation for the periods and as of the dates indicated are qualified by reference to and should be read in conjunction with our financial statements and related notes and “Management’s Discussion and Analysis of Financial Condition and Results of Operations” included in our public filings with the SEC.

Global Oncology-Focused Biopharmaceutical Company



*Improving the lives of
cancer patients everywhere*

Late-Stage Oncology Company

- **Oral paclitaxel and encequidar** for metastatic breast cancer: **PDUFA date - Feb. 28, 2021; Priority Review granted**
- **Klisyri® (tirbanibulin)** for actinic keratosis received FDA approval in Dec. 2020

Orascovery Platform

- Building oral chemotherapy backbone for IO and targeted therapies
- Differentiated by safety, efficacy, as well as convenience

Orascovery Opportunity

- Oral Paclitaxel in mBC addresses HR+/HER2- and TNBC
- Growth through: (1) label expansion, (2) combo trials, and (3) new indications
- **Pipeline growth opportunities expand initial 70,000 addressable patient opportunity to 500,000+ addressable patient opportunity**

Pipeline

- Oral Paclitaxel plus pembrolizumab
- TCR-T Immunotherapy (TCRT-ESO-A2) – multiple tumor types

Vertically Integrated

- Commercial infrastructure in place to support proprietary product launch*
- Global clinical development operations

Financials

- Cash runway through 2023

* If approved

Increasing Importance of Oral Chemotherapy Options

JNCCN: Improving COVID-19 Safety for Cancer Patients and Healthcare Providers

PLYMOUTH MEETING, PA [April 9, 2020] — The National Comprehensive Cancer Network® (NCCN®)—an alliance of [leading cancer centers](#)—is continuing to share new resources for optimal cancer management amid new and changing challenges related to the Coronavirus Disease 2019 (COVID-19). The nonprofit organization's Best Practices Committee has published a new article online-ahead-of-print in *JNCCN—Journal of the National Comprehensive Cancer Network* detailing their recommendations for keeping cancer patients, caregivers and staff as safe as possible.

The NCCN Best Practices Committee recommendations can be summarized as follows:

Patient Safety

- Prescreen and screen for COVID-19 symptoms and exposure history via telephone calls or digital platforms
- Develop screening clinics to allow for patient dedicated unit with dedicated staff
- Convert in-person visits to telemedicine visits
- Limited or no visitor policy
- Limit surgeries and procedures to only essential
- Consideration of alternative dosing schedule and/or the infusion center
- Switch from infusional therapy to oral oncolytics if equivalent formulation is available
- Transition outpatient care to care-at-home (e.g., hormone therapy)
- Increase interval between scans or use biologic therapy
- Provide resources for wellness and stress management for patients

Orascovery Platform: Encequidar, a Novel P-gp Pump Inhibitor

Designed to Enable Oral Absorption of Chemotherapy Agents

CHEMOTHERAPY BIOAVAILABILITY

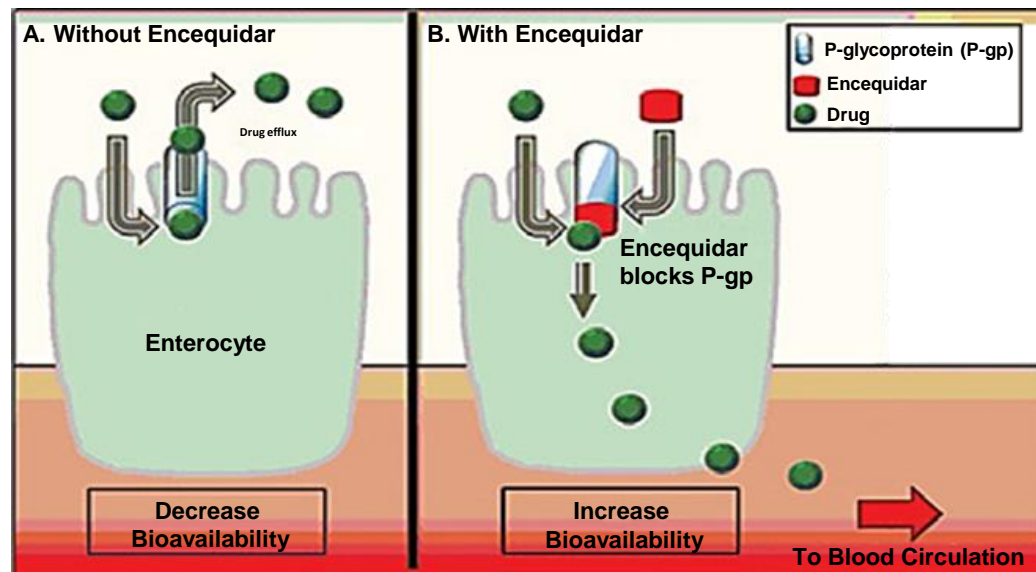
Many chemotherapies are P-gp substrates, and can only be given intravenously

ENCEQUIDAR

- Selective inhibitor of P-gp
- Minimal systemic bioavailability

ORAL CHEMOTHERAPY + ENCEQUIDAR

Encequidar is designed to allow for oral absorption of chemotherapy agents such as paclitaxel, irinotecan, docetaxel, topotecan and eribulin



POTENTIAL ADVANTAGES OF ENCEQUIDAR¹

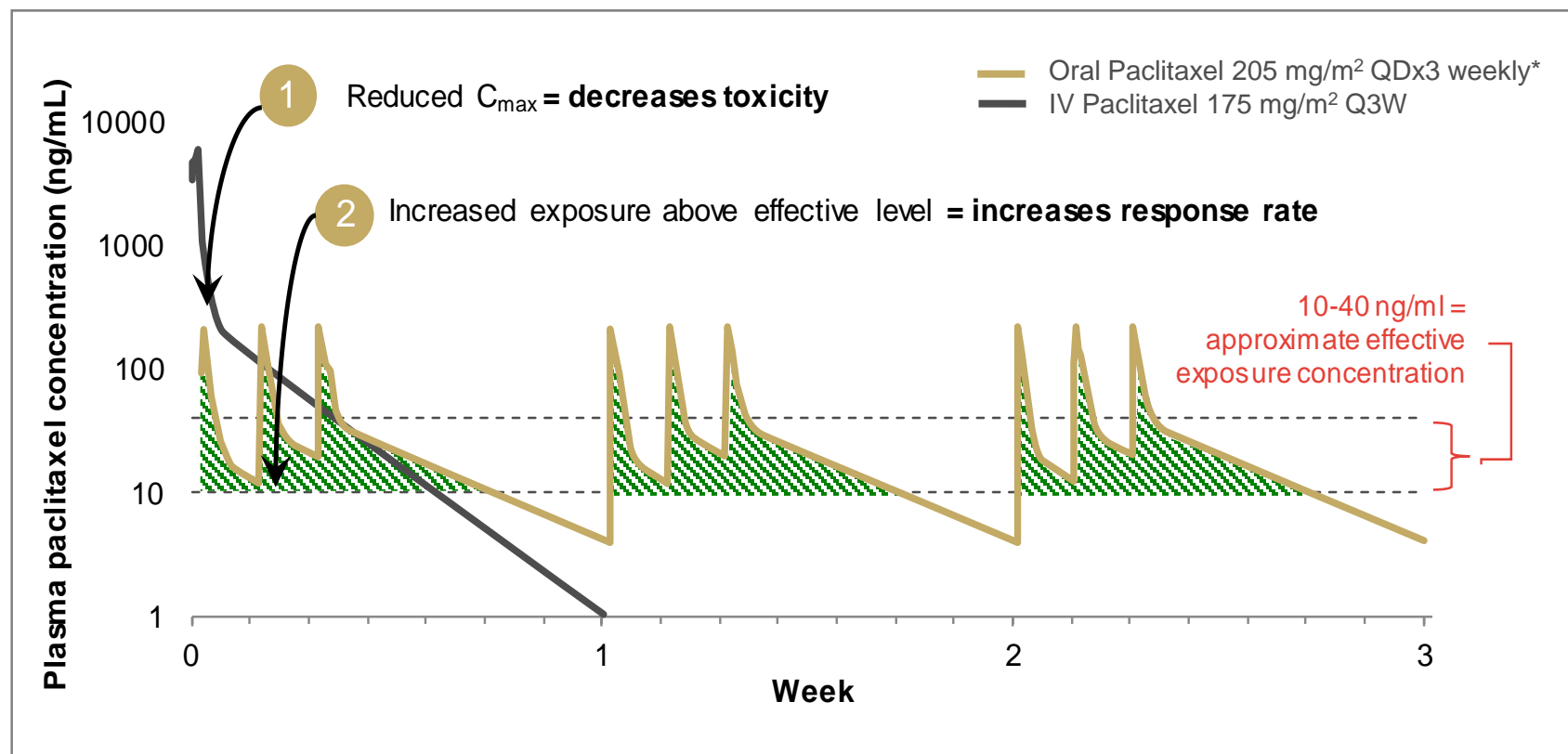
- Minimal systemic absorption
- Localized P-gp inhibitory activity in GI tract
- No significant systemic side effects to other organs & cells seen in clinical studies
- Expect lower incidence of severe toxicities associated with IV chemotherapy agents

¹ Based on research and clinical studies to date

Pharmacokinetic Model of Oral Paclitaxel

P-gp Pump Inhibition Resulted in Higher Drug Exposure and Better Tolerability Than IV

Oral Paclitaxel 205 mg/m² QDx3 weekly* vs. IV Paclitaxel 175 mg/m² Q3W

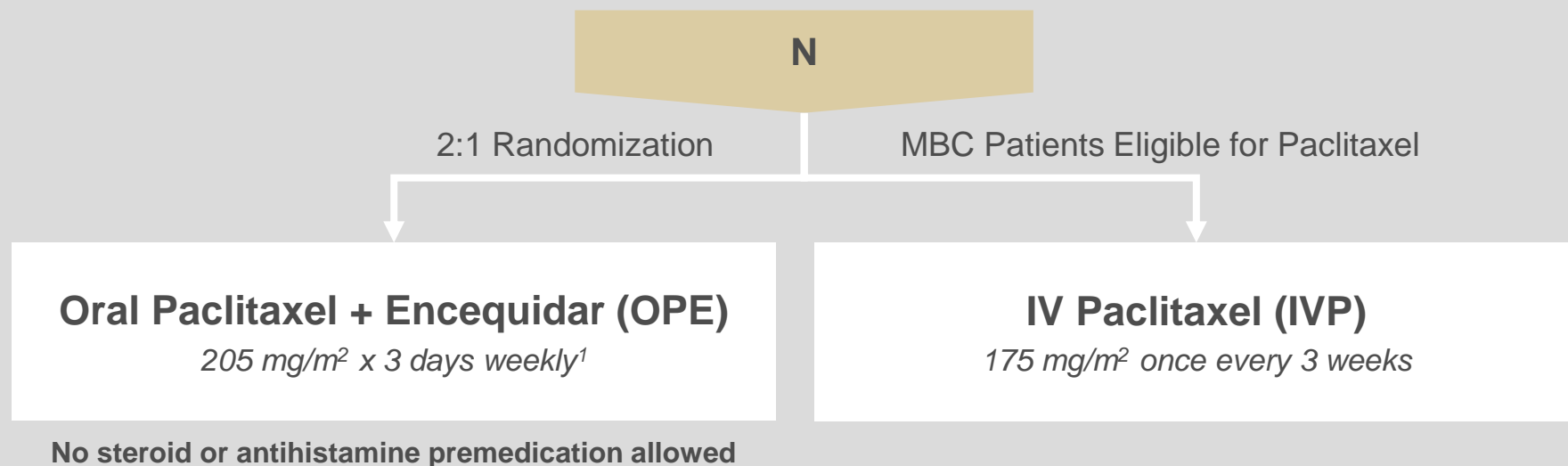


* Dosing regimen is 15mg encequidar and 205mg/m² oral paclitaxel for 3 consecutive days per week

Phase III Study of Oral Paclitaxel in Metastatic Breast Cancer

Clinical Trial Designed to Support Registration in the U.S.

(Presented at 2019 SABCS)



Primary Endpoint: ORR

- Radiologically confirmed overall response rates at two consecutive timepoints (RECIST v1.1)
- Blinded assessments by 2 independent radiologists, independent adjudicator
- Scans at weeks 10, 16, 19 / 22

Secondary Endpoints: PFS, OS

Population	OPE	IVP
ITT ² (N=402)	265	137
Safety ³ (N=399)	264	135
Prespecified mITT ⁴ (N=360)	235	125

¹ Dosing regimen of the oral paclitaxel and encequidar arm is 15mg encequidar and 205mg/m² oral paclitaxel for 3 consecutive days per week

² Intent-to-treat population includes all randomized subjects

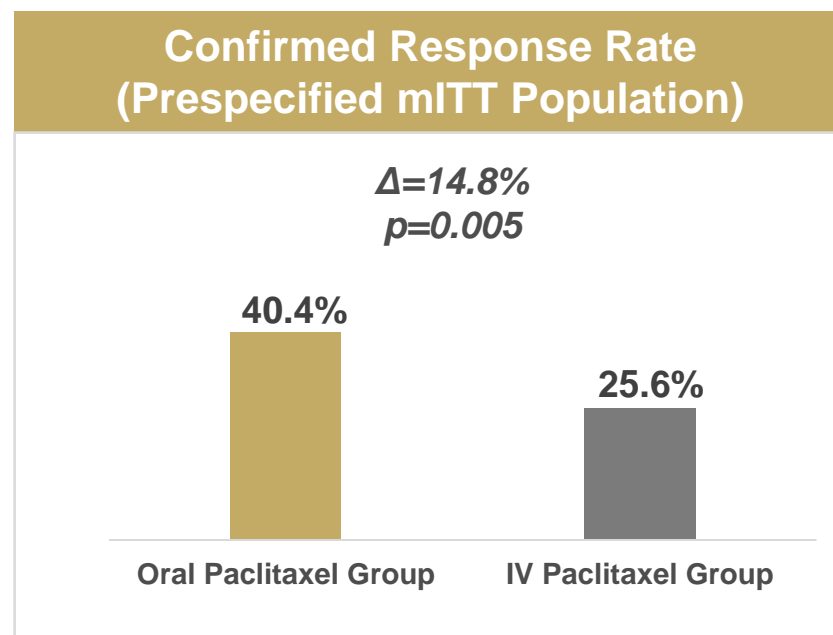
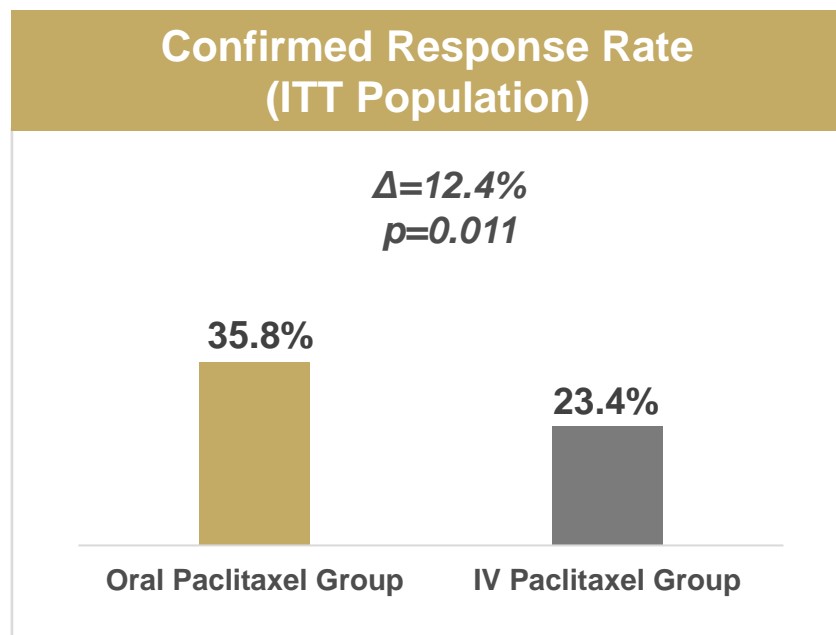
³ All patients who received ≥1 dose of OPE or IVP

⁴ Baseline evaluable scan: patients with metastatic RECIST lesion on central review; all patients who received at least 7 doses of OPE or one dose of IVP

Phase III Study of Oral Paclitaxel Met Primary ORR Endpoint

Statistically Significant Improvement in ORR Compared to IV Paclitaxel

(Presented at 2019 SABCS)

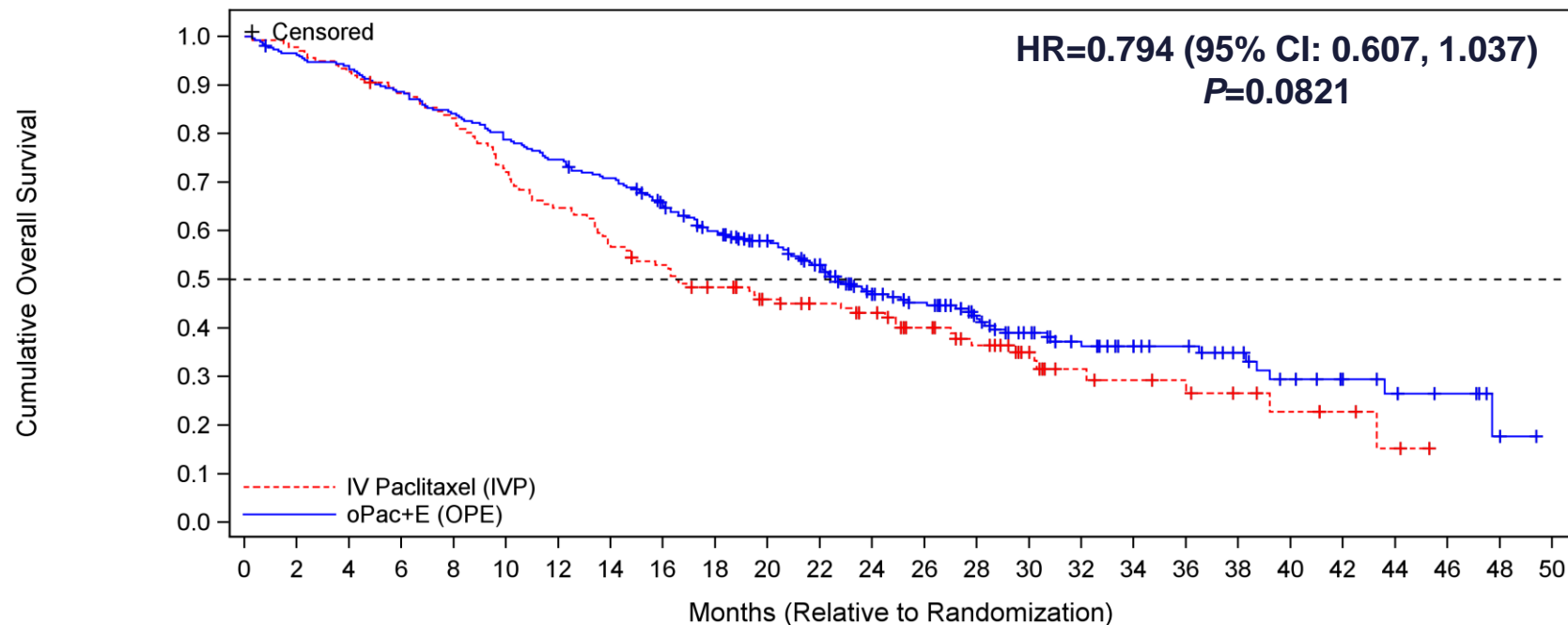


ITT, intent-to-treat population (N=402); mITT, modified intent-to-treat population (N=360)

Overall Survival in ITT Population

(Data cut: September 2020)

(Presented at 2020 SABCS)



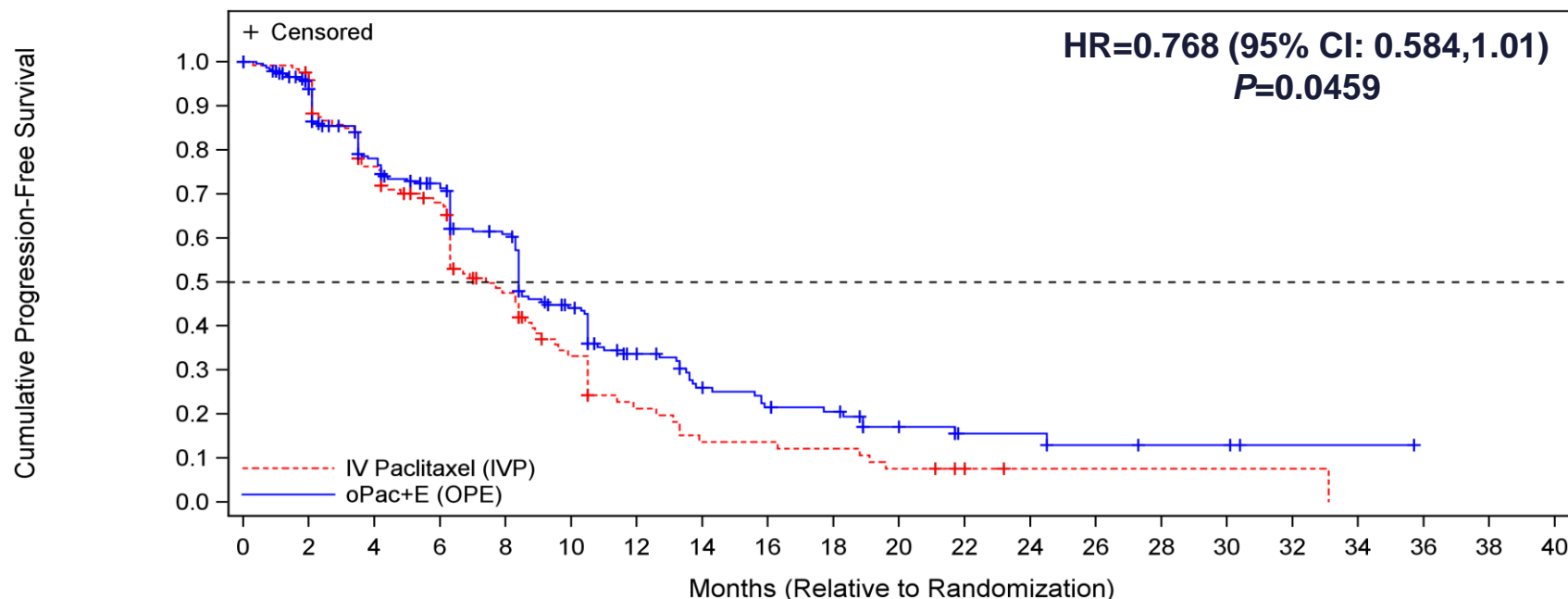
	Numbers of Subjects at Risk																			
IV Paclitaxel (IVP)	137	134	127	120	113	99	88	78	70	62	53	48	44	36	29	21	14	12	11	8
oPac+E (OPE)	265	255	248	234	222	208	197	186	169	150	132	114	88	76	60	48	38	31	27	21

OS, ITT (N=402)	Median Estimate, mo	Censored Summary, %	Patient deaths (events), %
OPE (n=265)	22.7	42	58
IVP (n=137)	16.5	35	65

Progression-Free Survival in ITT Population

Trend in Favor of Oral Paclitaxel (Data cut: September 2020)

(Presented at 2020 SABCS)



	Numbers of Subjects at Risk															
IV Paclitaxel (IVP)	137	117	86	70	43	26	14	9	9	8	5	3	1	1	1	0
oPac+E (OPE)	265	210	155	128	100	66	42	30	24	20	12	6	6	4	3	1

PFS, ITT (N=402)	Median Estimate, mo	Censored Summary, %	Patients with event ¹ , %
OPE (n=265)	8.4	43	53
IVP (n=137)	7.4	30	64

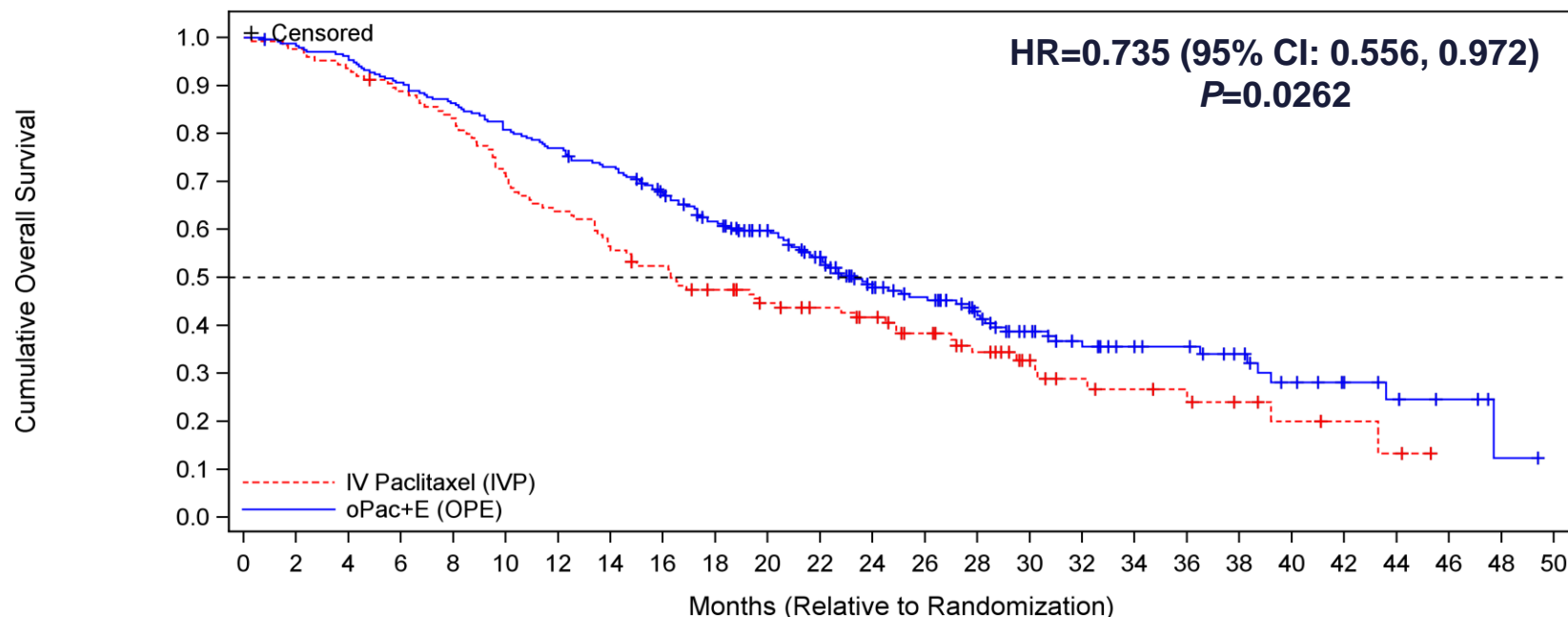
OPE, Oral Paclitaxel Group; IVP, IV Paclitaxel Group; mITT, modified intent-to-treat population; CI, confidence interval; HR, hazard ratio

¹ Event is defined as radiological disease progression by central review or death collected in eDC within 90 days of the last tumor assessment

Overall Survival in Prespecified mITT Population

Demonstrated Survival Benefit (Data cut: September 2020)

(Presented at 2020 SABCS)

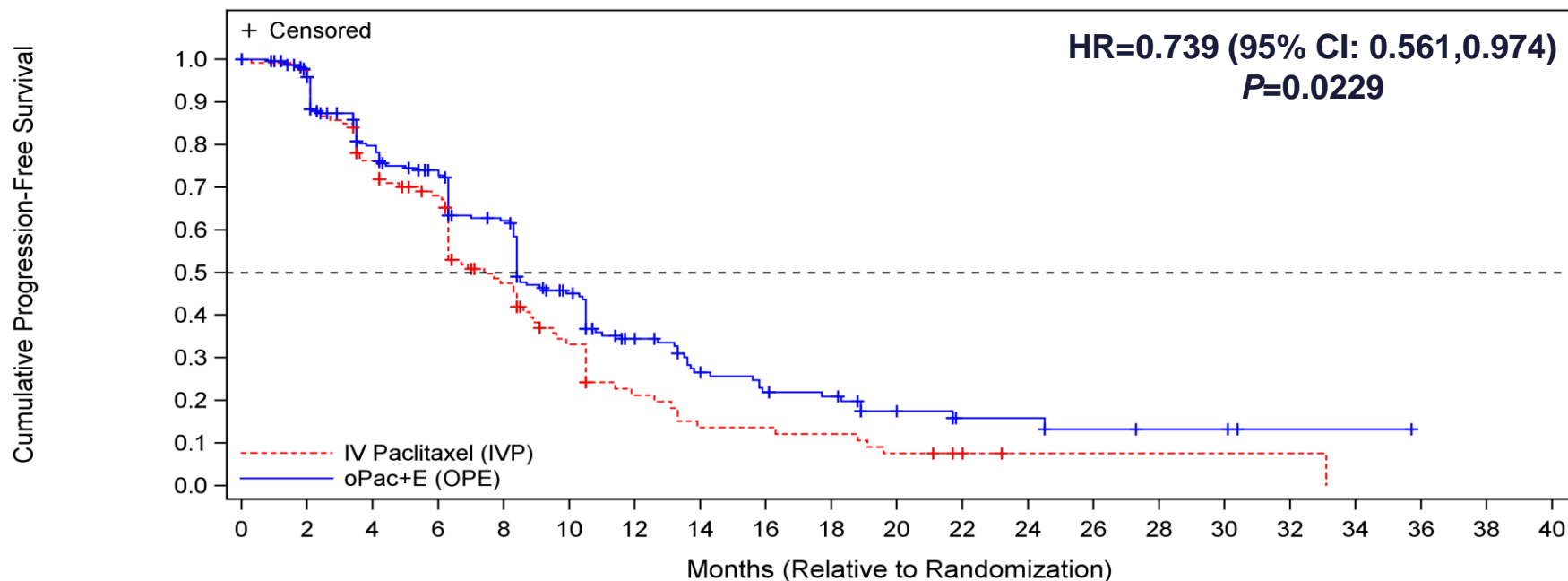


OS, mITT (N=360)	Median Estimate, mo	Censored Summary, %	Patient deaths (events), %
OPE (n=235)	23.3	42	58
IVP (n=125)	16.3	33	67

Progression-Free Survival in Prespecified mITT Population

Trend in Favor of Oral Paclitaxel (Data cut: September 2020)

(Presented at 2020 SABCS)



Numbers of Subjects at Risk																	
IV Paclitaxel (IVP)	125	117	86	70	43	26	14	9	9	8	5	3	1	1	1	1	0
oPac+E (OPE)	235	210	155	128	100	66	42	30	24	20	12	6	6	4	3	1	0

PFS, mITT (N=360)	Median Estimate, mo	Censored Summary, %	Patients with event ¹ , %
OPE (n=235)	8.4	43	57
IVP (n=125)	7.4	30	70

OPE, Oral Paclitaxel Group; IVP, IV Paclitaxel Group; mITT, modified intent-to-treat population; CI, confidence interval; HR, hazard ratio

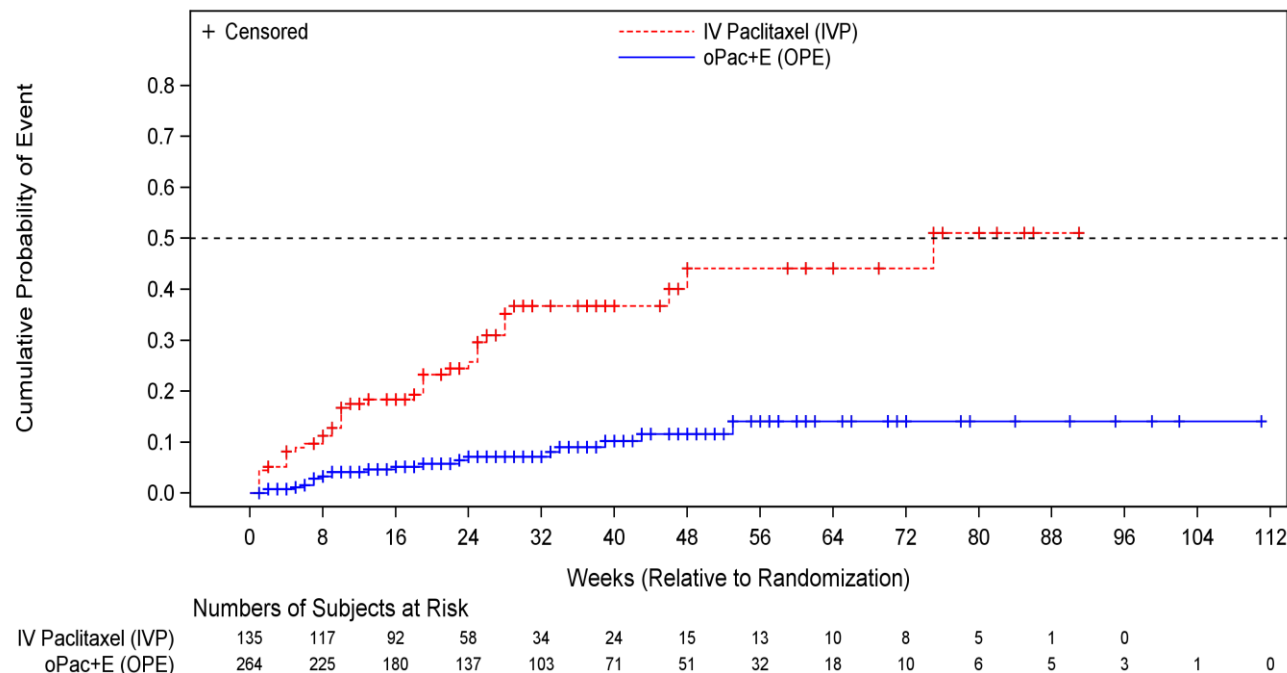
¹ Event is defined as radiological disease progression by central review or death collected in eDC within 90 days of the last tumor assessment

Treatment-emergent Adverse Events of Interest (TEAEs)

Safety Population (N=399)

(Presented at 2020 SABCS)

Cumulative Risk of Neuropathy Relevant¹ with CTCAE Grade ≥ 2



Neuropathy TEAEs (% of population)	OPE (n=264)	IVP (n=135)
Neuropathy relevant ¹ with CTCAE grade ≥ 2	8.0%	31.0%
Neuropathy relevant ¹ with CTCAE all grades	22.0%	64.0%
Incidence of Vomiting and Diarrhea (% of Population)	Pre-Amendment (n=75)	Post Amendment (n=189)
Incidence of Vomiting (OPE) grades ≥ 2	31.0%	11.0%
Incidence of Diarrhea (OPE) grades ≥ 2	36.0%	19.5%

OPE, Oral Paclitaxel Group; IVP, IV Paclitaxel Group

¹ Includes burning sensation, dysesthesia, hypoesthesia, hyporeflexia, neuralgia, neuropathy peripheral, neurotoxicity, paresthesia, peripheral motor neuropathy, peripheral sensory neuropathy, and polyneuropathy

Market Opportunity for Oral Paclitaxel in MBC in the U.S.

Metastatic Breast Cancer Represents 160,000 to 170,000 Patients

<u>HER2+</u> Incidence Rate: ~14% ¹	<u>HR+/HER2-</u> Incidence Rate: ~68% ¹	<u>TNBC</u> Incidence Rate: ~10% ¹	<u>Unknown</u> Incidence Rate: ~8% ¹
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Common regimens

- Herceptin in combination with paclitaxel
- Herceptin monotherapy
- Kadcyla monotherapy
- Perjeta in combination with Herceptin and docetaxel

Endocrine therapy +/- CDK 4 & 6 inhibitor	Oral Paclitaxel and Encequidar		1L
Oral Paclitaxel and Encequidar			2L
Oral Paclitaxel and Encequidar			3L

Oral Paclitaxel Initial Target Addressable Market of ~70,000 in MBC²

¹ National Cancer Institute (SEER 2013-2017)
² Estimated target patients that would be eligible for chemotherapy (various sources, Breast Cancer, United States, 2019).
Forecast figures and/or estimates are not guarantees of future performance and involve risks and uncertainties. Actual results might differ materially from the forecast figures and/or estimates

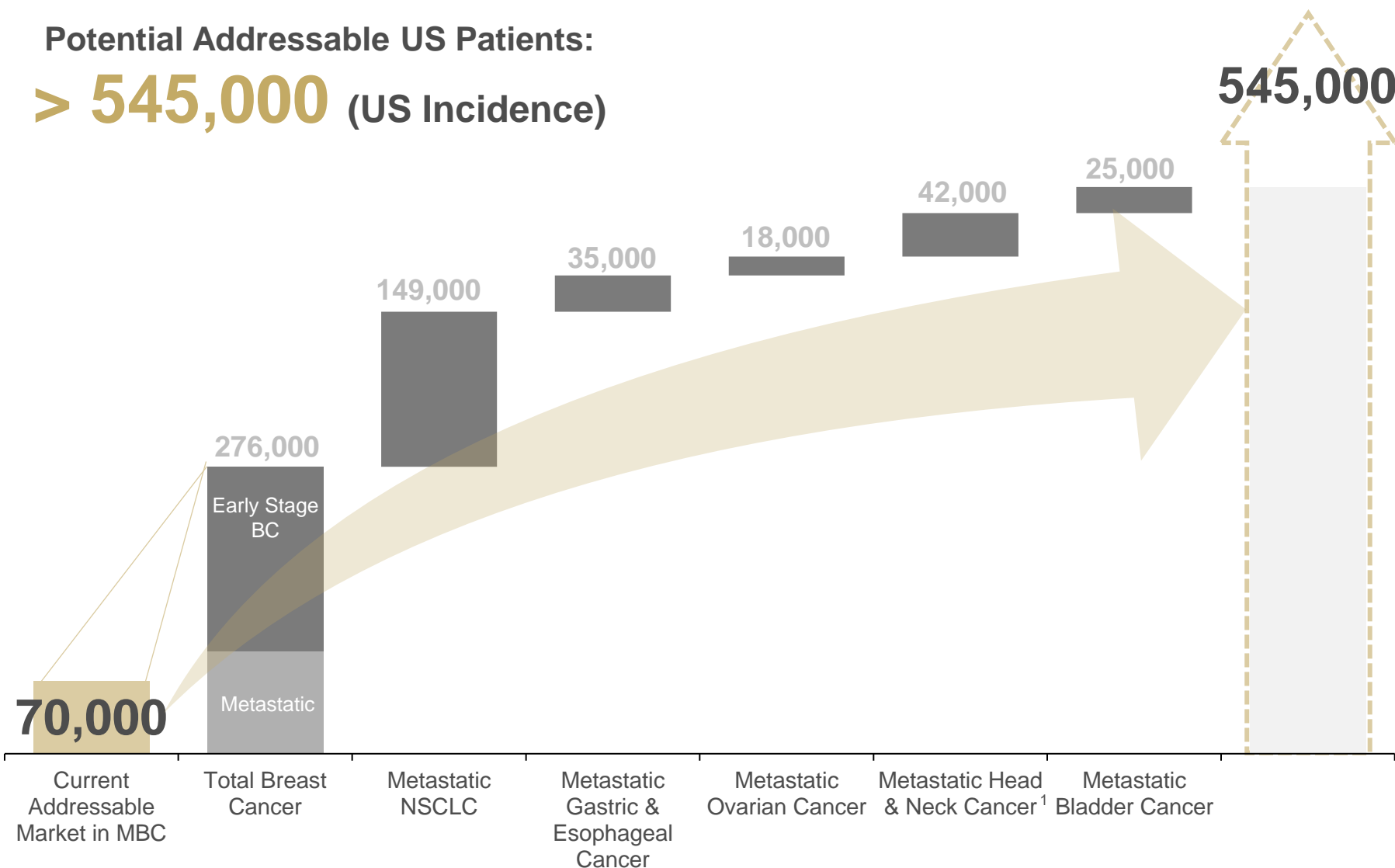
Commercial Preparations on Track

MEDICAL AFFAIRS	MARKET ACCESS	MARKETING	SALES
<ul style="list-style-type: none">✓ Established scientific communication platform✓ Key data generation and publication plans in process✓ Initiated health economics studies✓ Hired MSL team, staffed and engaging with thought leaders✓ Hired oncology nurse educator team	<ul style="list-style-type: none">✓ Defined trade and distribution strategy✓ Developed payer value proposition✓ Completed pricing and contracting✓ Developed patient support strategies✓ Hired director of payor team✓ Hiring payor account team	<ul style="list-style-type: none">✓ Launched “Facing MBC Together” campaign✓ Established brand positioning and customer segmentation✓ Identified go-to-market tactical plan✓ Launched HCP unbranded campaign to elevate CIPN	<ul style="list-style-type: none">✓ Completed account targeting✓ Building data infrastructure✓ Building CRM platform<input type="checkbox"/> Target team of 50-55 sales reps<input type="checkbox"/> Hiring 25 territory reps upon approval to cover 70% of the highest prescribers

Opportunity to Expand Oral Paclitaxel's Addressable Market

Potential Addressable US Patients:

> 545,000 (US Incidence)



Source: New cases in 2020 estimated based on SEER by National Cancer Institute

Note: The graph is for illustrative purpose only. It may not reflect the actual scale and the selected diseases do not represent our comprehensive list of targeted indications

¹ Including laryngeal, oral cavity and pharyngeal cancers

Potential Areas of Interest

Pursue opportunities where paclitaxel is standard of care

Expanding into indications where Paclitaxel is SOC

Early-stage breast cancer

Ovarian cancer

Lung cancer

Gastric cancer

Pursue emerging combination opportunities

Lung cancer

Gastroesophageal (GE) cancer

Genitourinary (GU) cancer

TNBC

Indications with ongoing studies

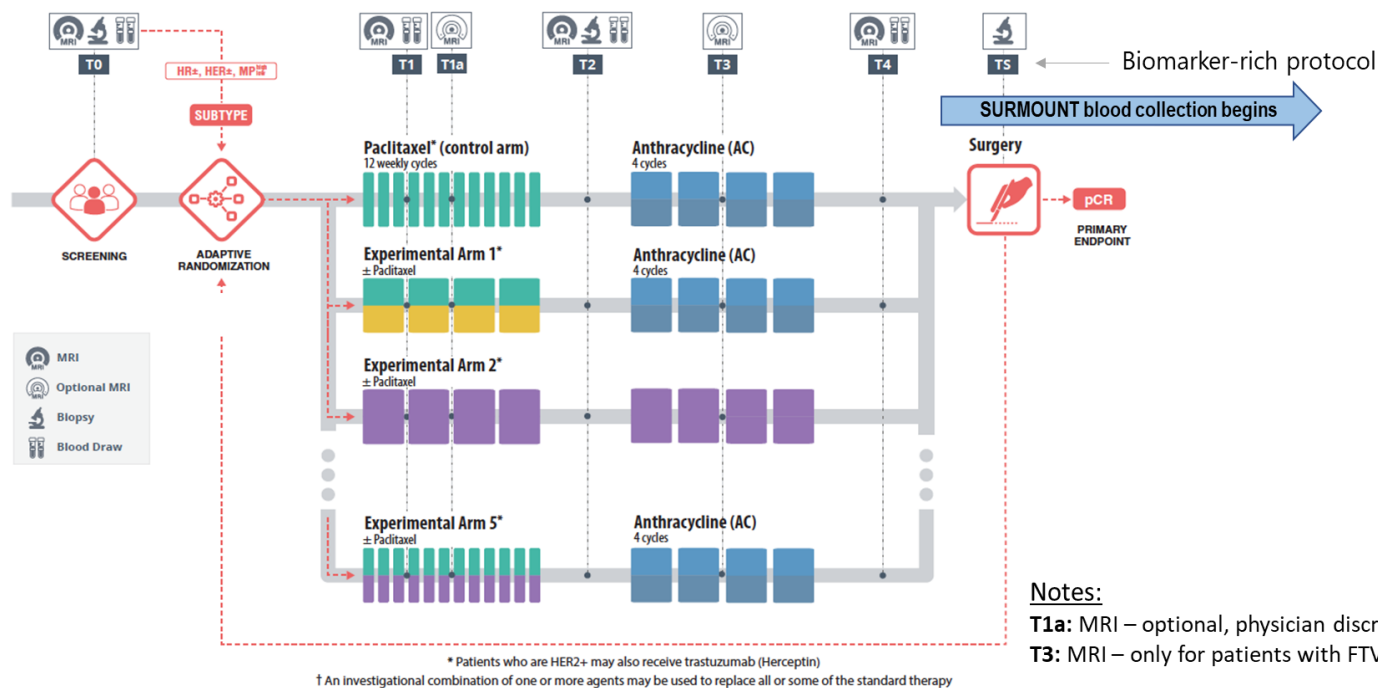
I-SPY 2 Trial Overview

A Phase II trial designed to screen novel agents in the neoadjuvant setting

- Patients are randomized to chemotherapy + / - a novel agent
 - Endpoint is pathologic complete response (pCR)
 - Graduation: 85% probability of success in a Phase 3
- Over 20 leading cancer centers in the U.S.

Adaptive Overall Study Schema

I-SPY 2 employs an innovative adaptive randomization trial model

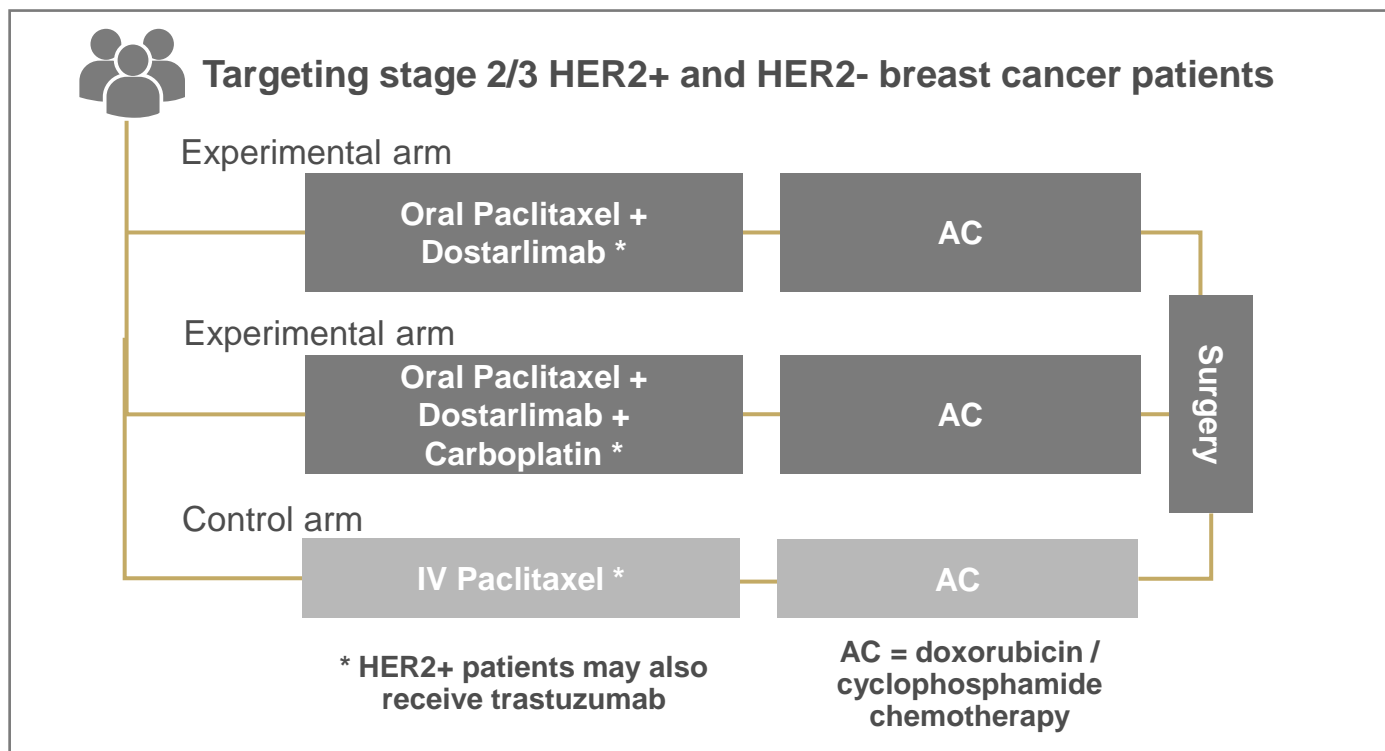


I-SPY 2 Launches New Study Arm with Oral Paclitaxel

In Combination with GSK's dostarlimab (PD-1 Antibody)

Goal of Study: Evaluate the safety and efficacy of Oral Paclitaxel in combination with dostarlimab +/- carboplatin in the neoadjuvant breast cancer setting

Primary Objective: Determine whether this regimen increases the probability of pathologic complete response (pCR) over standard neoadjuvant chemotherapy alone in specific biomarker signatures



Expanding Portfolio of Novel Cancer Therapeutics

TCR-T Immunotherapy TCRT-ESO-A2

Being developed by Axis Therapeutics, a joint venture between Athenex and Xiangxue Life Sciences (XLifeSc)

FDA allowed the U.S. IND for TCRT-ESO-A2*, targeting solid tumors that are NY-ESO-1 positive in HLA-A*02:01 positive patients

Preliminary results from China pilot studies for TAEST16001* (binding affinity against HLA-A*02:01 restricted antigen NY-ESO-1)

- Encouraging positive clinical efficacy and safety signals
- TCR-expression detected on patients' T-cells with improved binding affinity and introduced TCR-genes persisted in circulation

XLifeSc initiated a Phase I trial of TAEST16001* in China

Arginine Deprivation Therapy PT01 (Pegtomarginase)

Arginine depletion for ASS1/OTC deficient cancers

U.S. IND allowed for PT01 for advanced malignancies

Planning for Phase I study ongoing

Potential to combine with other Athenex pipeline therapeutics

Src Kinase Inhibition KX2-361 Oral

Closely related structural analog of tirbanibulin capable of crossing the blood-brain barrier

Phase I study in China initiated by partner, Xiangxue Pharmaceutical

* TCRT-ESO-A2 is similar to TAEST16001, an autologous cell-based therapy being developed simultaneously by XLifeSc for clinical application in China in that both therapies express the same affinity-enhanced TCR

Klisyri for Actinic Keratosis

Two Phase III Pivotal Studies in the U.S. Completed

- Double-blind, vehicle-controlled, randomized, parallel group, multicenter
- Enrolled 351 subjects in 31 U.S. sites per study (N=702)

Efficacy Results

% of Subjects in ITT population (# of Subjects)	KX01-AK-003			KX01-AK-004		
	Tirbanibulin N=175	Vehicle N=176	p-value	Tirbanibulin N=178	Vehicle N=173	p-value
100% AK Clearance (primary endpoint)	44% (N=77)	5% (N=8)	<0.0001	54% (N=97)	13% (N=22)	<0.0001

Safety Results

- **Compliance** to 5-day of self-treatment was **over 99%** for both studies
- **Local skin reactions** were mostly **mild to moderate**
- Treatment-related adverse events were mild to moderate application site symptoms, e.g. pruritus or pain
- No serious adverse events or early discontinuations due to study drug related adverse events

Actinic Keratosis (AK) Market Opportunity Is Significant

Actinic Keratosis Market Opportunity

- Common pre-cancerous skin condition characterized by scaly crusty skin lesions due to over exposure to the sun
- An estimated 10-15% of AK cases progress to cancer if left untreated¹
- Estimates suggest more than 40 million Americans develop AKs each year.²
- AK represents the second most common diagnosis made by dermatologists in the U.S.³
- Klisyri is a first-in-class microtubule inhibitor indicated for the treatment of Actinic Keratosis of the face or scalp
- Differentiated clinical and safety profile with a short duration five-day treatment

License agreement with Almirall

Upfront Fee / Near Term Payments

\$55 million

Milestones

\$65 million aggregate associated with launch and additional indications
Eligible for additional sales milestones

Royalties

Tiered royalties starting at 15% based on annual net sales with incremental increases in royalty rates with increased sales

Territories

U.S. and all of Europe including Russia and Turkey

1. American Osteopathic College of Dermatology. <https://www.aocd.org/page/ActinicKeratosis>
2. American Academy of Dermatology Association (AAD). <https://www.aad.org/public/diseases/skin-cancer/actinic-keratosis-overview>
3. Wilmer EN, Gustafson CJ, Ahn CS, Davis SA, Feldman SR, Huan WW. Most common dermatologic conditions encountered by dermatologists and non-dermatologists. Cutis. 2014 Dec; 95(6):285-92.

Financial Snapshot

Revenue for the nine-month period ended September 30, 2020

\$122.6 million

- *Product sales, net*

\$83.5 million

- *License and other revenue*

\$39.1 million

Cash, cash equivalents, restricted cash and short-term investments as of September 30, 2020

\$242.1 million

Potential gross proceeds from the financing agreements with Oaktree and Sagard Healthcare (June and August 2020)

\$275.0 million

- *Amount drawn down as of September 30, 2020*

\$125.0 million

- *Term Loan Facility available contingent upon future milestones*

\$100.0 million

- *RIF Facility available contingent upon future milestones*

\$50.0 million

Shares outstanding (basic) as of September 30, 2020





93.3 million

Shares outstanding (fully diluted) as of September 30, 2020

106.4 million

Deep Pipeline of Potentially Transformative Therapies

Athenex's Pipeline (as of Jan. 11, 2021)

Drug Candidate and Program			Status				Licensing Partner(s)		
			Pre-clinical	Phase I	Phase II	Phase III	Regulatory	U.S. & EU	RoW
Orascovery	Oral paclitaxel + encequidar	Monotherapy	Metastatic breast cancer				PDUFA Date 2/28/21		
			Angiosarcoma						
		+ dostarlimab	Neoadjuvant breast cancer (I-SPY 2) ⁸						
		+ pembrolizumab	Solid tumors						
		+ ramucirumab	Gastric cancer	<i>Lilly</i>					
	Oral irinotecan + encequidar		Solid tumors						
	Oral docetaxel + encequidar		Solid tumors						
	Oral topotecan + encequidar		Solid tumors						
	Oral eribulin + encequidar		Solid tumors						
Other	Tirbanibulin ointment		Actinic keratosis				FDA APPROVED ⁹		 
	TCR-T Immunotherapy: TCRT-ESO-A2		Multiple tumors						

¹ Rights in Korea

² Sub-licensed in Taiwan, Singapore and Vietnam

³ Sub-licensed in New Zealand and Australia

⁴ Sub-licensed / licensed in Mainland China, Hong Kong and Macao

⁵ Licensed in Taiwan

⁶ Licensed in Taiwan, Mainland China, Hong Kong, Macau, Singapore and Malaysia

⁷ Rights in Mainland China

⁸ In collaboration with Quantum Leap Healthcare Collaborative and GSK

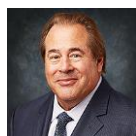
⁹ The FDA approved Klisyri® (tirbanibulin) for actinic keratosis of the face or scalp in December 2020.

Management Team with Deep Pharma & Biotech Experience

Led the Development of Many Global Drugs



Johnson Lau MBBS, MD, FRCP
Chief Executive Officer, Chairman
25+ years experience



Jeff Yordon
Chief Operating Officer
45+ years experience



Rudolf Kwan MBBS, MRCP
Chief Medical Officer
30+ years experience



Simon Pedder PhD
Chief Business & Strategy Officer
30+ years experience



Randoll Sze
Chief Financial Officer
10+ years experience



Timothy Cook
Senior Vice President,
Global Commercial Oncology
25+ years experience



Daniel Lang MD
President, Axis Therapeutics Limited
Senior Director, Corporate Development
25+ years experience



Wing Kai Chan MBBS, MD, FRACP
Deputy Chief Medical Officer
35+ years experience




William Zuo PhD
President, China
20+ years experience

Prior Experience



Selected Drugs Developed / Marketed





**Our goal is to become
a global leader in
bringing innovative cancer treatments to the
market and improving health outcomes**



NASDAQ:ATNX

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