PHARMA INC.

Corporate Presentation

Nasdaq: PLXP

Forward-Looking Statements

This presentation includes or incorporates by reference statements that constitute forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. These statements relate to future events or to our future financial performance, and involve known and unknown risks, uncertainties and other factors that may cause our actual results, levels of activity, performance, or achievements to be materially different from any future results, levels of activity, performance or achievements expressed or implied by these forward-looking statements. These statements include, but are not limited to information or assumptions about expenses, capital and other expenditures, financing plans, capital structure, cash flow, liquidity, management's plans, goals and objectives for future operations and growth. In some cases, you can identify forward-looking statements by the use of words such as "may," "could," "expect," "intend," "plan," "seek," "anticipate," "believe," "estimate," "predict," "potential," "continue," or the negative of these terms or other comparable terminology. You should not place undue reliance on forward-looking statements since they involve known and unknown risks, uncertainties and other factors which are, in some cases beyond our control and which could cause actual performance or results to differ materially from those expressed in or suggested by forward-looking statements.

Important factors that could cause such differences include, but are not limited to (i) our ability to bring both Vazalore[™] 81 mg and Vazalore 325 mg to market-readiness; (ii) our ability to maintain regulatory approval of Vazalore 325 mg or obtain and maintain regulatory approval of Vazalore 81 mg and any future product candidates; (iii) the benefits of the use of Vazalore 325 mg and Vazalore 81 mg; (iv) our ability to successfully commercialize our Vazalore products, or any future product candidates; (v) the rate and degree of market acceptance of our Vazalore products or any future product candidates; (vi) our ability to scale up manufacturing of our Vazalore products to commercial scale; (vii) our ability to successfully build a specialty sales force and commercial infrastructure or collaborate with a firm that has these capabilities; (viii) our ability to compete with companies currently producing GI-safer technologies for NSAIDs and other analgesics; (ix) our reliance on third parties to conduct our clinical studies; (x) our reliance on third-party contract manufacturers to manufacture and supply our product candidates for us; (xi) our ability to retain and recruit key personnel, including development of a sales and marketing function; and (xii) our ability to obtain and maintain intellectual property protection for our Vazalore products or any future product candidates.

Should one or more of these risks or uncertainties materialize, or should any of our assumptions prove incorrect, actual results may vary in material respects from those projected in these forward-looking statements. We do not undertake any obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as may be required under applicable securities laws.



Our Mission

PLx Pharma is focused on improving the performance of established therapeutic agents with the proprietary PLxGuard[™] targeted drug delivery platform.

We are driven to transform the standard of care for hundreds of millions of patients.



Proprietary, Targeted Drug Delivery Platform

Lead Product: Vazalore[™]



Clinically shown to overcome the limitations of enteric-coated aspirin with faster and more reliable antiplatelet efficacy and improved GI safety

Late-stage OTC product opportunity: Next-generation aspirin with a 325mg dose (FDA approved) and an 81mg dose both expected to launch by mid-2020

• Better efficacy and improved GI safety for superior benefit-risk profile

• Novel mechanism of action enables strong patent life for multiple APIs





VAZALORE

World-renowned scientific advisory board (Co-Chairs: Drs. Deepak Bhatt & Gabriel Steg) advocating for Vazalore as the new standard of care

Addresses a critical unmet need for over 40 million high-risk cardiovascular

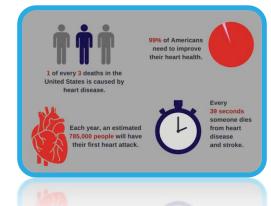
Significant physician interest: Over 80% of specialists indicate their high intent to prescribe Vazalore for their high-risk patients

patients creating the potential for a \$10 billion market opportunity

¹Weinman Schnee Morais Inc.



Current Aspirin Therapy Landscape



92 million Americans live with cardiovascular disease¹

- Most have atherosclerotic cardiovascular disease (ASCVD)
- >40 million require daily aspirin therapy



Enteric-coated (EC) aspirin is the current standard of care

- Launched many decades ago, has >90% market share
- 325 mg in acute phase and 81 mg for chronic therapy



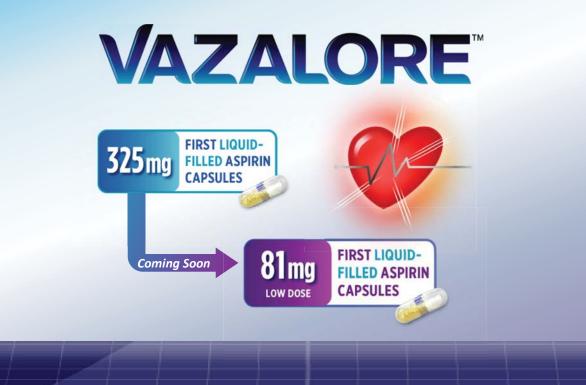
Clinicians & patients are unaware that EC aspirin:

- Has variable and unreliable antiplatelet efficacy
- Does not have improved GI safety

¹AHA Heart Disease and Stroke Statistics 2018

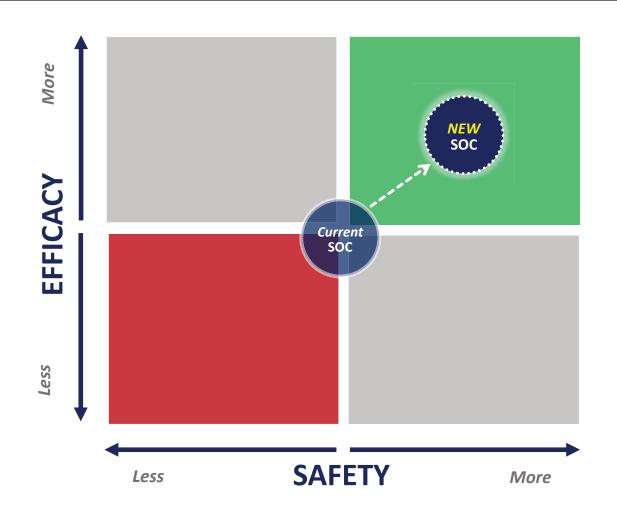


Targeting an Unmet Medical Need



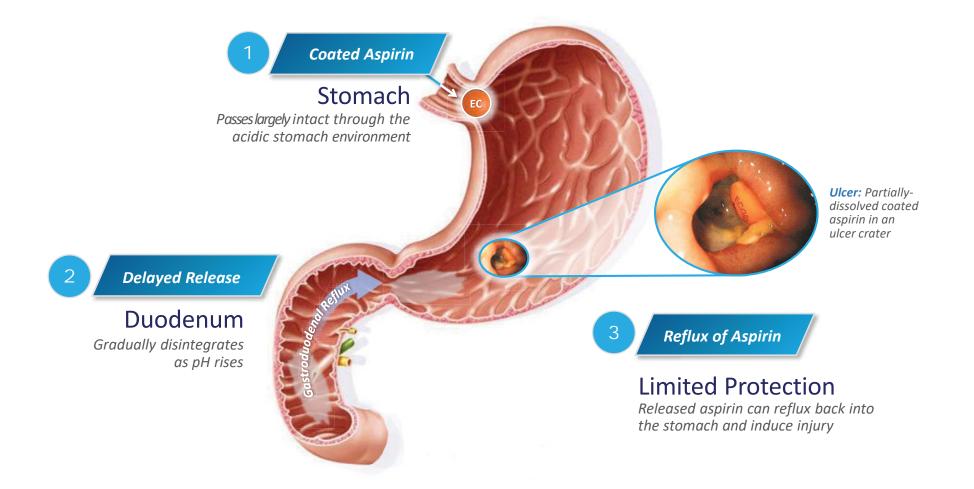


Advancing the Standard of Care



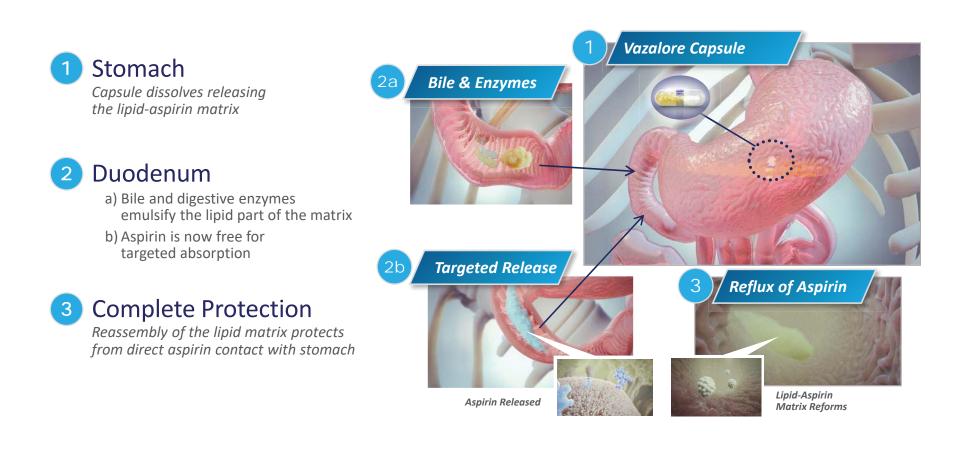


Delayed Release Coated Aspirin: Mechanism of Action & Clinical Implications





Targeted Release Liquid Aspirin: Mechanism of Action & Clinical Implications



PLY PHARMA INC.

Comparative Efficacy of Aspirin Formulations



BACKGROUND:

The root cause of aspirin resistance remains unknown

OBJECTIVES:

Determine whether formulation dependent bioavailability mediates non-responsiveness

METHODS:

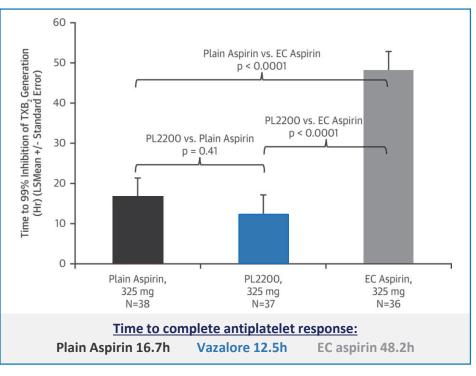
Randomized, blinded, triple crossover study 40 diabetic patients receiving 3 daily doses of:

- -Plain aspirin 325mg
- -Vazalore 325mg
- —EC Aspirin 325mg

PRIMARY ENDPOINT:

Time to >99% Thromboxane B₂ inhibition

Vazalore achieves therapeutic efficacy 4 times faster than EC Aspirin

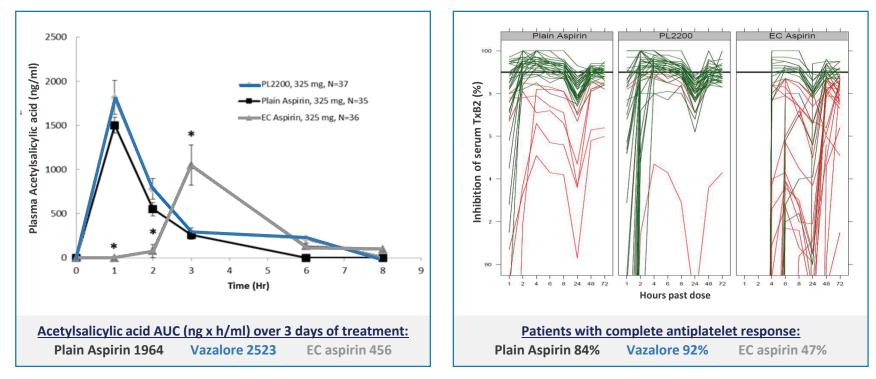


PL2200 = Vazalore™

Bhatt DL, et al. Enteric Coating and Aspirin Non-Responsiveness in Patients With Type 2 Diabetes Mellitus. J Am Coll Cardiol 2017 Feb 14;69(6):603-612

PK/PD Comparison of ASA, ECASA & Vazalore: Implications for Aspirin Efficacy





PL2200 = Vazalore™

Bhatt DL, et al. Enteric Coating and Aspirin Non-Responsiveness in Patients With Type 2 Diabetes Mellitus. J Am Coll Cardiol 2017 Feb 14;69(6):603-612



Endoscopic Assessment of Aspirin Formulations: Implications for Gastric Ulcer Risk



BACKGROUND:

Aspirin is associated with significant gastric toxicity

OBJECTIVES:

Determine whether a novel, lipid-based aspirin formulation can reduce gastric erosions and ulcers

METHODS:

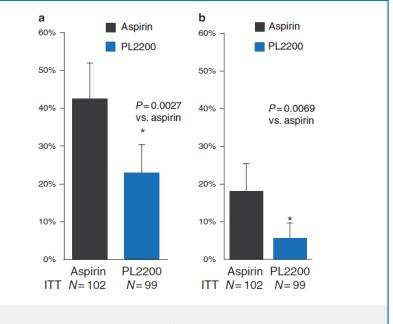
Randomized, blinded, multi-center study in 204 healthy volunteers:

- -7 days of either Aspirin or Vazalore 325mg
- -Endoscopy performed at baseline and day 7
- -Centralized, blinded endoscopic adjudication

PRIMARY ENDPOINT:

Incidence of gastroduodenal erosions or ulcers at 7 days

Vazalore vs. Aspirin: 47% RRR in erosions and/or ulcers (NNT 5) 71% RRR in ulcer formation (NNT 8)

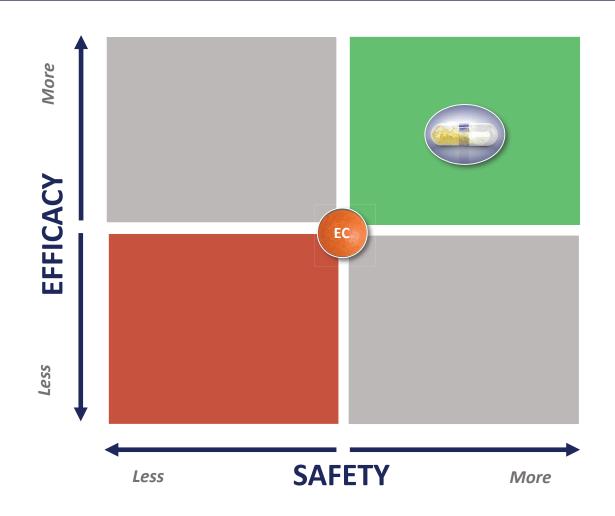


(a) Subjects with erosions and/or ulcers (b) Subjects with ulcers

PL2200 = Vazalore™

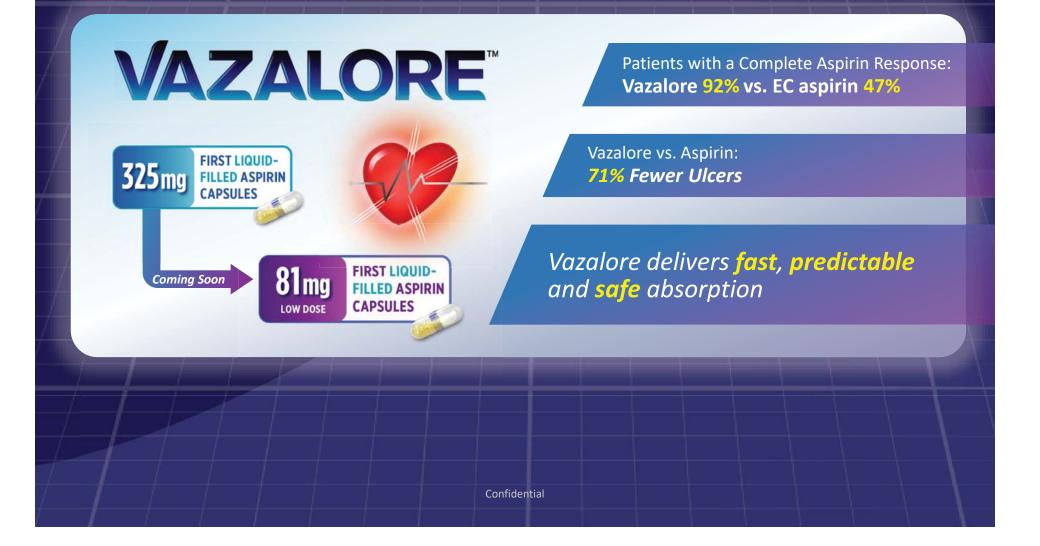
Cryer B, et al. Low-Dose Aspirin-Induced Ulceration is Attenuated by Aspirin-Phosphatidylcholine: A Randomized Clinical Trial. Am J Gastroenterol 2011; 106(2):272-7

Vazalore™: The New Aspirin Standard of Care

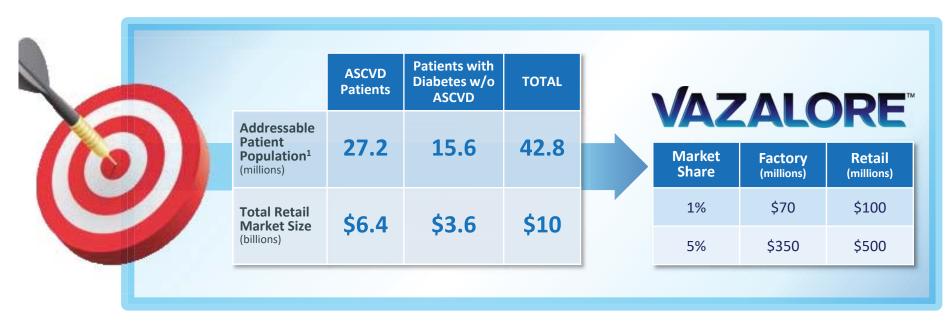




Vazalore: Unleashing Aspirin's Full Potential



Vazalore US Market Opportunity

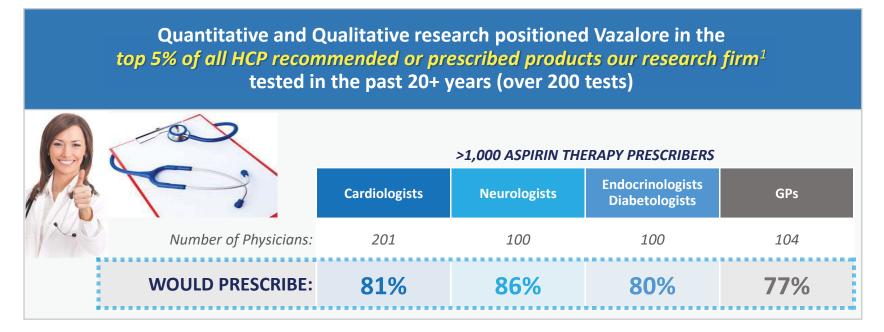


ASCVD – Atherosclerotic Cardiovascular Disease: History of Coronary, Cerebrovascular, or Peripheral Artery Disease

¹AHA Heart Disease and Stroke Statistics 2018



Specialists & GPs Indicate High Intent to Prescribe Vazalore





Consumers (2,000 surveyed) were more likely to purchase specific OTC products when prescribed by a physician

¹Weinman Schnee Morais Inc.



Vazalore Commercial Strategy





Key Messages to HCPs





Path Forward



VAZALORE



Future Pipeline



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Pipeline Leverages PLxGuard Platform Technology

PLxGuard applicable to a variety of APIs						
Product Candidate	Туре	Size	Pre-Clinical	Phase 1	Phase 2	Phase 3
Vazalore Brand Extensions Chronic Pain & Other Vascular Indications*	отс	42.8MM High-Risk CVD Patients		325 mg App	roved	
PL1200 Ibuprofen, 200 mg* Pain, Inflammation and Fever	отс	25.3MM Suffer Daily Chronic Pain				
Other NSAIDs e.g. Indomethacin**, Diclofenac**	OTC & Rx	25.3MM Suffer Daily Chronic Pain				
National Cancer Institute Grant PLx Formula in test with Colorectal Cancer Patients	OTC & Rx	1.3MM Sufferers of Colorectal Cancer				

In clinical (*) and pre-clinical (**) proof-of-concept studies, these product candidates demonstrated improved GI safety vs. the in-market drug



PLx Management Team

Name	Experience
Michael (Mike) J. Valentino <i>Executive Chairman of the</i> <i>Board</i>	35+ years CEO and senior management with successful OTC and Rx brands [OTC brand, Mucinex [®] (\$2.3 billion exit in 4.5 years)]
Natasha Giordano President and CEO	20+ years CEO and senior management cegedim commercialization experience dendrite
Rita M. O'Connor, CPA Chief Financial Officer	25+ years pharma and finance leadership at private & public companies
Efthymios N. Deliargyris, MD FACC, FESC, FSCAI Chief Medical Officer	Internationally-recognized expert in cardiovascular disease and thrombosis WAKE FOREST School OF MEDICAL CONTROL OF MEDICAL CON
Steven Valentino VP, Trade Sales	25+ years in OTC and consumer healthcare including Rx-to-OTC switches, brand management, trade sales
Mike Dillon VP, Sales & Marketing	Strong track record building high-performing specialty sales teams, pizer publicis healthcare launching/promoting blockbuster products



Independent Board of Directors & Advisors

Board of Directors

- Prior VP and General Manager for American Cyanamid Co.'s Lederle Consumer Health Division
- Former audit committee chair, Adams Respiratory
- Former Partner, Ernst & Young LLP
- Former Adams Respiratory COO (Mucinex[®] Jaunch, Adams' IPO a

Experience

Robert (Bob) Casale

Director

Gary S. Balkema

Kirk

Calhoun

- (Mucinex[®] launch, Adams' IPO and \$2.3 billion sale)
- Former senior manager at Pfizer, Warner Lambert and CEO of Scerene Healthcare
- Former (John W.
 - Former CEO of IRX Therapeutics (private)
- Hadden II Former healthcare investment banker at JP Morgan & Co.



Efthymios N. Deliargyris,

MD, FACC, FESC, FSCAI

Chief Medical Officer

PLX Pharma Inc.

Sparta, NJ, USA

Byron Cryer, MD Associate Dean for Faculty Diversity and Development Professor of Medicine, UT Southwestern Medical School Dallas, TX, USA



Deepak L. Bhatt, MD, MPH,

Brigham and Women's Hospital

Professor of Medicine, Harvard

FACC, FAHA, FSCAI, FESC

Interventional CV Programs

Heart & Vascular Center

Executive Director of

Medical School

Boston, MA, USA

Todd K. Rosengart, MD Professor and Chairman, DeBakey-Bard Chair of Surgery Michael E. DeBakey Department of Surgery Baylor College of Medicine Houston, TX, USA



Scientific Advisory Board

P. Gabriel Steg, MD, FESC, FACC

Director of the Coronary Care Unit, Hôpital Bichat-Claude Professor of Cardiology, Univ. Paris VII - Denis Diderot Professor at the National Heart and Lung Institute, Imperial College, London, UK Paris, FRANCE



Professor of Medicine and Director

of Interventional Cardiovascular

Zena and Michael A. Wiener

Sinai School of Medicine

Research and Clinical Trials at the

Cardiovascular Institute at Mount

Dominick J. Angiolillo, MD, PhD, FACC, FESC, FSCAI

Program Director, Interventional Cardiology Fellowship Professor of Medicine, Director, Cardiovascular Research University of Florida College of Medicine-Jacksonville Jacksonville, FL, USA



D Jayne Prats, PhD Elysis Medical gery Scientific Solutions Boston, MA, USA



Carey Kimmelstiel, MD, FACC, FACP, FSCAI

Director, Catheterization Laboratory and Interventional Cardiology, Tufts Medical Center Professor of Medicine, Tufts University School of Medicine Boston, MA, USA

PLXTM PHARMA INC.



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Thank You!

