

Pulse Biosciences

(Nasdaq: PLSE)

March 2020

Forward-looking statements

This presentation and accompanying oral presentation by Pulse Biosciences, Inc., contain estimates and forward-looking statements as of March 23, 2020 including, among others, statements regarding Pulse Biosciences' future business plans, products, commercial applications, clinical trials, regulatory processes and pathways, markets for its technologies, and other future events.

You should not place undue reliance on forward-looking statements, as they involve known and unknown risks and uncertainties that are, in some cases, beyond the Company's control and could cause actual results to differ materially from the information expressed or implied. Factors that could materially affect actual results are described in detail in the Company's recent Securities and Exchange Commission filings.

Pulse Biosciences undertakes no obligation to revise or update forward-looking statements to reflect future events or circumstances.



Provide superior treatment for a wide range of dermatological conditions through a novel, proprietary, tissue sparing solution





Nano-Pulse Stimulation Technology

Non-thermal modality that delivers nanosecond duration pulses of electrical energy

High speed nanosecond energy pulses penetrate the cell membrane and disrupt internal cellular function, leading to regulated cell death

Unlike thermal (heat/cold) technologies, NPS directly impacts cellular structures while sparing non cellular tissue





Demonstrated Mechanism of NPS in Skin

Safe, precise targeting and elimination of cells while sparing the dermis



Healthy Skin





Seven (7) days post-treatment

- Healthy epidermal cells with dark nuclei
- Cells in treated epidermis are nonviable (ghost cells)
- Cell membranes and surrounding non-cellular tissue are intact
- Healthy epidermis emerges below
- Treated epidermal layer peels away



As of February 2020

99 issued patents globally owned & licensed

Additional 99 patent applications pending worldwide

Robust IP Portfolio

Multipronged Patent Strategy

- Pioneering IP for the use of nanosecond pulses in biology
- Covering methods and tools for the application of nanosecond pulses in biology
- Pioneering IP and continued development of IP with focus on skin-based applications
- Continued development and patent filings covering systems, applications, and methods of combining nanosecond pulsing with other biological technologies and agents



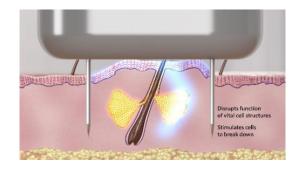
NPS Technology Delivery

Through the CellFX System proprietary platform



Broadly applicable platform with the ability to address multiple treatment targets in commercially significant areas of unmet clinical need







Excellent Clinical Data

Safety and efficacy across multiple difficult-to-treat dermatologic conditions

SK

Cleared Raised SK at 106-day follow-up



Seborrheic Keratosis

- 82% efficacy rate
- Clear or mostly clear with single treatment
- 78% satisfaction rate



SH

Cleared SH at 60-day follow-up



Sebaceous Hyperplasia

- 99.5% efficacy rate
- Clear or mostly clear 90% with single treatment
- 77% satisfaction rate

W

Cleared Wart at 60-day follow-up



Warts (non-genital)

- 61% rate of complete clearance in Recalcitrant Warts
- 71% of completely cleared warts achieved with single treatment session
- Previous modalities failed for majority of patients

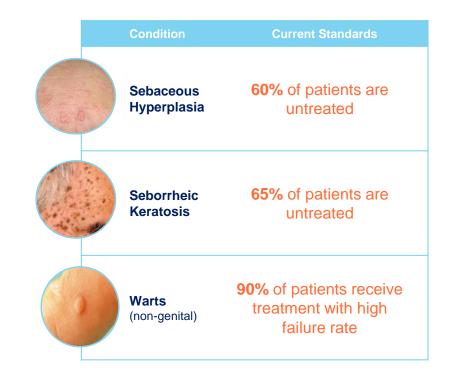
Unmet Need in Aesthetic Dermatology

Current treatments lack acceptable cosmetic outcomes or no standard of care exists



Aesthetic Patient Veterans

- Visit skin specialists for cosmetic procedures several times per year
- Seek latest treatment options
- Willingness to invest in procedures to look their best
- Aesthetic procedures are generally elective and cash-pay





Market Opportunity

Widespread prevalence among patients visiting aesthetic dermatologists today











Commercialization Strategy

Innovative utilization based business model aligns incentives



Patients want to pay based on number of lesions treated



Dermatologists want to treat all patients regardless of condition size/type/amount and want their costs aligned with what they treat



CellFX System is designed to support a business model based on each lesion treated, aligning the patient, physician, and Pulse



Practice Economics

MD Franchise Based on Expanding Utilization Over Time

Compelling Short-term Economics Long-term Practice Franchise Coultex Revenue to Initial < Four Avg. 10 Avg. 5 Lesions **Practice** Investment Patients / Week Month Patients / Week per Patient ~\$500.000 / MD Return on • 10 x 15-minute treatment Net MD Rev \$45,000 Avg. Year session (2.5 hrs) Lesions Revenue Investment per lesion **Gross Profit** · Benign Lesion, SH, SK, per Patient per Patient \$150-200 & Warts to Practice · Room for growth with ~\$400,000 / 5 / patient \$900-1200* additional apps Year



CellFX Cloud Unique competitive advantage Cell FX^{*} Cloud Software/ Utilization Customer Customer **Practice** Data & Management Web Metrics **Application** Updates & Cycle Unit Portal Maintenance Management



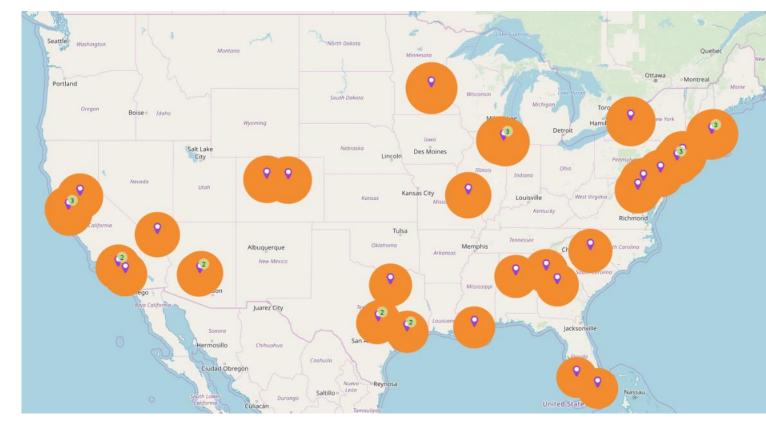
U.S. Target Market

80% of target early adopter physicians

located within 100-mile radius of the 40 controlled launch participants selected for controlled launch

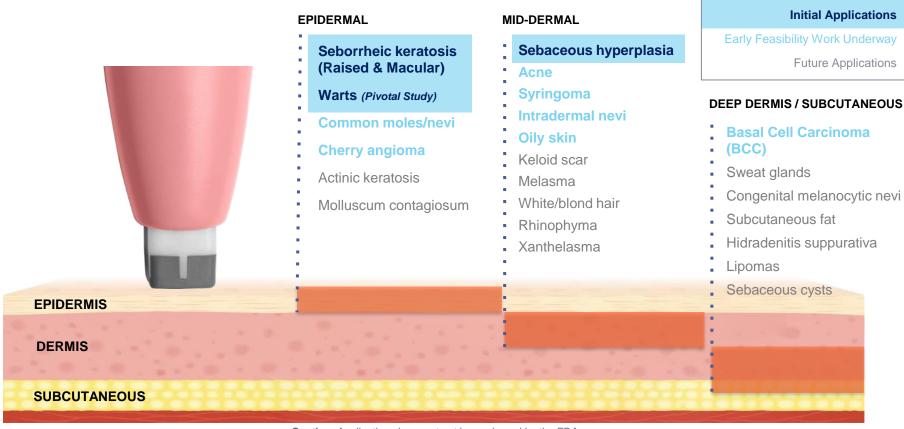
4.6 M average population located within 100-mile radius of the 40 controlled launch participants selected

for controlled launch





Extensive CellFX Application Pipeline



Regulatory Strategy

Roadmap to 510(k) clearance



- Recent 510(k) ended in Not Substantially Equivalent letter based on insufficient data for specific SK and SH indications.
- Follow-on discussions with FDA over past two weeks are directing company towards a general dermatologic 510(k) submission as a more efficient stepwise approach.
- Planning a formal meeting with FDA to confirm data requirements for general derm 510(k) submission.
- Parallel discussions regarding comparative studies for specific indications including SH, SK, Warts and other applications will be ongoing with FDA.



Strong KOL Support and Advocacy

Deep network of leading aesthetic dermatologists

PUBLICATIONS ON NPS TECHNOLOGY





PODIUM PRESENTATIONS

2018

2019

3 (Jan) **8** (Mar-May*)

2020

*Dedicated NPS Section at





Scientific Advisors







- Dr. Brian Biesman, Nashville, TN
- Dr. Eric Bernstein, Ardmore, PA
- Dr. Chris Harmon, Birmingham, AL
- Dr. Suzanne Kilmer, Sacramento, CA
- Dr. Darius Mehregan, Ann Arbor, MI
- Dr. Gilly Munavalli, Charlotte, NC
- Dr. Tom Rohrer, Chestnut Hill, MA
- Dr. Vic Ross, San Diego, CA
- Dr. Elizabeth Tanzi, Chevy Chase, MD
- Dr. Brian Zelickson, Edina, MN
- Dr. Brian Berman, Aventura, FL
- Dr. Mark Nestor, Aventura, FL
- Dr. James Newman, San Mateo, CA
- Dr. Robert Pierce, Seattle, WA

Leadership Team

Proven and experienced in growing medical technology from clinical to commercial stage

Management

Darrin Uecker	President & Chief Executive Officer	GAUGE ANICS, computermotion.	
Edward Ebbers	EVP & GM, Dermatology	ZELTIQ thermage	
Sandra Gardiner	EVP & Chief Financial Officer	CUTERA tria.	

Board of Directors







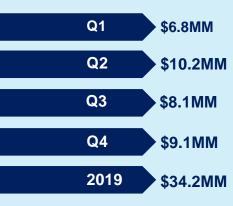
Upcoming Milestones

- Regulatory Steps for the CellFX System
 - Continue to pursue 510(k) general derm indication in collaboration with FDA
 - Collaborate with FDA on comparative study designs for specific indications, e.g. SH, SK, and Warts
- Pursuing a Rights Offering to raise an additional \$30M
- Progress Clinical and Scientific programs
 - Continued presence at scientific meetings including the upcoming ASLMS meeting
- Continue to Expand Pipeline of Clinical Applications
 - Basal Cell Carcinoma
 - Common Moles





2019 quarterly cash usage



- As of 12/31/19 cash, cash equivalents and investments were \$25.4MM
- No debt



Financial Snapshot

	Dec 31 2019	
	(In thousands)	
Cash, cash equivalents & investments		25,398
Prepaids & other assets		1,499
Property, plant and equipment		2,566
Goodwill & intangibles		7,338
Right of use assets		5,114
Total assets		41,915
Accounts payable & accrued liabilities	\$	4,459
Lease liability		6,719
Debt		-
Stockholders' equity		30,737
Total liabilities & stockholders' equity		41,915
Shares outstanding		20,825

Thank You

