

# Pulse Biosciences

(Nasdaq: PLSE)

August 2022



# Forward-looking statements

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This presentation by Pulse Biosciences, Inc., contain estimates and forward-looking statements as of August 15, 2022 including, among others, statements regarding Pulse Biosciences' future business plans, products, commercial applications, intellectual property strategy, clinical trials, regulatory processes and pathways, and markets for its technologies, as well as patient and physician behavior and preferences 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 conditions through a novel, proprietary, tissue sparing solution



# Launching a New Category in Dermatology



CellFX®

**TIME TO GO**

Say goodbye to unsightly cellular lesions with an innovative energy-based procedure

*Raised, facial bumps*

*Dark, scaly spots*

*Rough, persistent growths*

Model, not actual patient

**NPS Platform technology addresses unmet need**  
aesthetically pleasing clearance of common spots, bumps and growths (benign skin lesions)

**Built-in demand** patients already visiting target aesthetic dermatologists and skin specialists

Positioned to be one of the **strongest revenue and profitability categories** for aesthetic dermatology clinics

# Broadly Applicable Novel Bioelectric Medicine Platform



Launching a  
**new category**  
in dermatology

**>\$3Bn**  
current  
addressable  
market

FDA, CE mark,  
Health Canada,  
Australia  
Approved

Unique  
**utilization**  
model

Proprietary  
CellFX  
CloudConnect™  
with robust IP

# Nano-Pulse Stimulation Technology

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

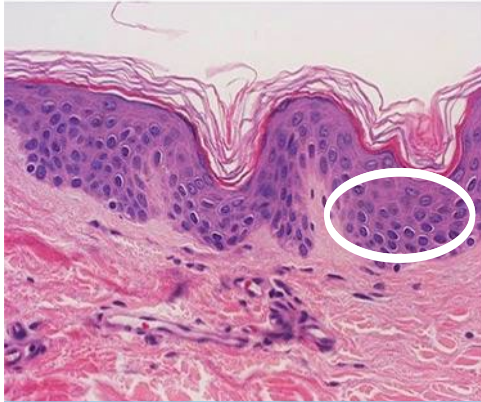
High speed nanosecond energy pulses penetrate the cell membrane and **disrupt internal cellular function**, leading to regulated cell death

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



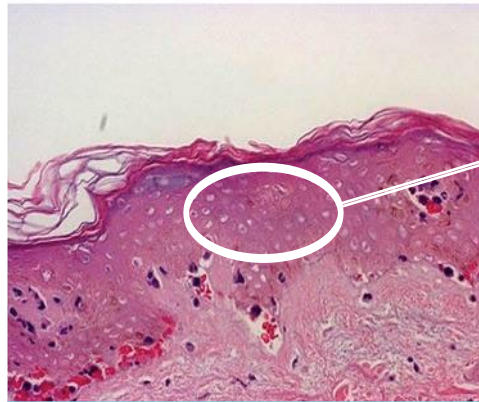
# Demonstrated Mechanism of NPS in Skin

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



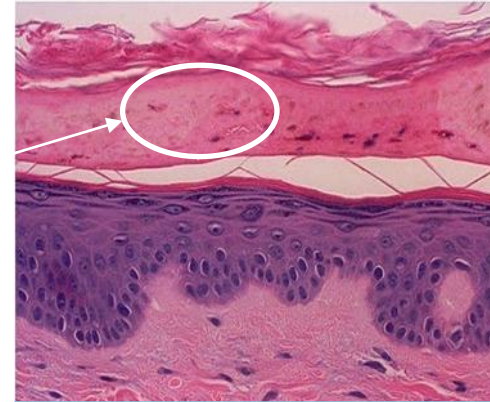
**Healthy Skin**

- Healthy epidermal cells with dark nuclei



**One (1) day post-treatment**

- Cells in treated epidermis are nonviable (ghost cells)
- Cell membranes and surrounding non-cellular tissue are intact



**Seven (7) days post-treatment**

- Healthy epidermis emerges below
- Treated epidermal layer peels away



# NPS Technology Platform

NPS delivered through the proprietary CellFX System



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



Initial applications in dermatology






# Unmet Need in Aesthetic Dermatology

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



## Aesthetic Patient Veterans

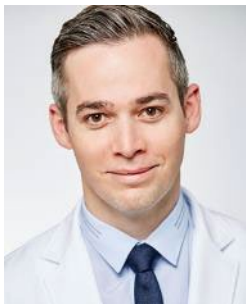
- Visit skin specialists for cosmetic procedures several times per year
- Seek latest treatment options
- Willingness to invest in procedures to look their best
- Aesthetic procedures are generally elective and cash-pay




	Condition	Current Standards
	<b>Sebaeous Hyperplasia</b>	<b>60%</b> of patients are untreated
	<b>Seborrheic Keratosis</b>	<b>65%</b> of patients are untreated
	<b>Warts (non-genital)</b>	<b>90%</b> of patients receive treatment with high failure rate

# Market Opportunity

Widespread prevalence among patients visiting aesthetic dermatologists today

**6,800**  
**Aesthetic**  
**Physicians**



	US <sup>1</sup>	Europe <sup>2</sup>
 <b>Seborrheic Keratosis</b>	<b>42</b> Patients per week	<b>54</b> Patients per week
 <b>Warts (non-genital)</b>	<b>84</b> Patients per week	<b>72</b> Patients per week
 <b>Sebacous Hyperplasia</b>	<b>37</b> Patients per week	<b>55</b> Patients per week

**+\$1B**

Current addressable market

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

## SH

Cleared SH at 60-day follow-up



BEFORE

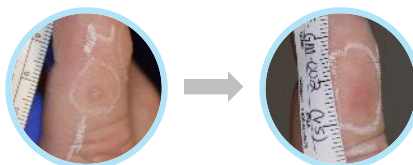
AFTER

### Sebaceous Hyperplasia<sup>1</sup>

- 99.5% efficacy (% of SH lesions rated clear or mostly cleared 60 days post NPS procedure)<sup>1</sup>
- Long-term follow-up study (12-months) data shows 73% of lesions maintained or improved clearance<sup>2</sup>

## Warts

Cleared Wart at 60-day follow-up



BEFORE

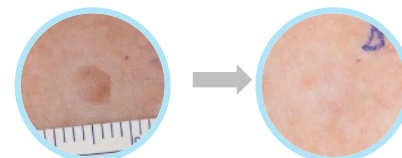
AFTER

### Warts (non-genital)<sup>3</sup>

- Up to 75% clearance efficacy, with majority of common warts cleared with a single procedure
- 48% of treated warts had failed previous modalities
- No evidence of recurrence within a 120-day observation period

## SK

Cleared Raised SK at 106-day follow-up



BEFORE

AFTER

### Seborrheic Keratosis<sup>4</sup>

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

# Results from Around the World



Photos courtesy of Dr. Mar Llamas



Photos courtesy of Dr. Josep Gonzalez Castro



Courtesy of Dr. Anna Paré



Courtesy of Dr. Enrique Rodriguez Lomba



Courtesy of Dr. Matt Mahlberg



Courtesy of Dr. Anna Paré

# Strong Dermatology KOL Support and Advocacy

Deep network of leading aesthetic dermatologists

13

**CLINICAL PUBLICATIONS  
ON NPS TECHNOLOGY**



## PODIUM AND POSTER PRESENTATIONS

4	12	16	18	14
2018	2019	2020	2021	2022*

## Scientific Advisors & Consultants



Dr. Brian Biesman, Nashville, TN  
Dr. Joel Cohen, Denver, CO  
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, Boston, MA



# CellFX Commercial Launch



Transitioned from controlled launch program to increasing commercial clinic utilization

## 2021

### Regulatory approval for CellFX received

- CE mark in January
- FDA clearance in February
- Health Canada approval in June
- Australia TGA approval

### Commenced controlled launch in US and EU

- First patients treated in the US and EU
- 70 clinics onboarded by YE22
- 29 opted to acquire CellFX Systems and transition to commercial use

**First 2 commercial sales of CellFX Systems completed**

## 1H22

### Driving utilization at key accounts

- Implemented utilization program within subset of commercial accounts

### Controlled Launch Progresses

- Transitioned 14 CLP participants to commercial use
- Total of 43 commercial conversions to date (12 remaining; 15 opted out)

**3 commercial sales of CellFX Systems**

# Cycles Enable Treatment Delivery

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

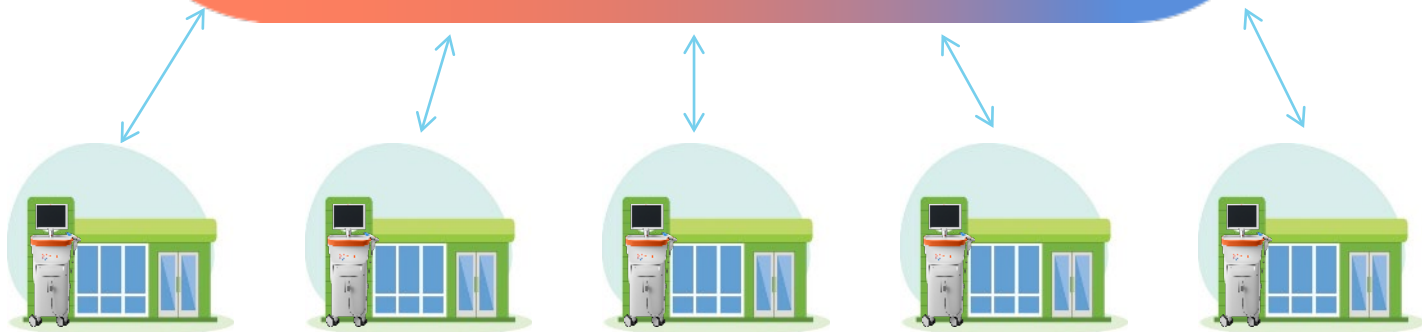
**CellFX System is designed to support a business model based on each lesion treated, aligning the patient, physician, and Pulse**





# CellFX CloudConnect™

Unique competitive advantage



# Practice Economics

MD Franchise Based on Expanding Utilization Over Time

## Compelling Short-term Economics



**Initial Investment**

\$45,000



**Three Patients / Week**

1-10 lesions / patient

**MD Revenue / Patient**

\$250-500\*



**< 1 Year**

**Return on Investment**

## Long-term Practice Franchise



**Avg. Ten Patients / Week**

- 10 x 15-minute treatment session (2.5 hrs)
- Benign Lesion, SH, SK, & Warts
- Room for growth with additional apps



**Avg. Five Lesions per Patient**

MD Revenue  
\$500



**Revenue to Practice**  
**~\$250,000 - \$500,000 / Year**

# A Big Future in Dermatology

NPS mechanism being investigated for multiple applications

Initial Applications

Early Feasibility Work Underway

Future Potential Applications

Over 800 subjects  
treated in controlled  
clinical studies\*

## EPIDERMAL

- Seborrheic keratosis  
(Raised & Macular)

- Warts (non-genital)

- Common moles/nevi

- Superficial basal cell  
carcinoma (BCC)

- Actinic keratosis

- Molluscum contagiosum

## MID-DERMAL

- Sebacous hyperplasia

- Acne

- Syringoma

- Benign nevi

- Oily skin

- Dermatofibroma

- Keloid scar

- Melasma

- White/blond hair

- Rhinophyma

- Xanthelasma

## DEEP DERMIS / SUBCUTANEOUS

- Nodular basal cell  
carcinoma (BCC)

- Sweat glands

- Congenital melanocytic nevi

- Subcutaneous fat

- Hidradenitis suppurativa

- Lipomas

- Sebaceous cysts

EPIDERMIS

DERMIS

SUBCUTANEOUS

# Expanding CellFX System Regulatory Clearances



- **Received 510(k) Clearance** for general dermatologic indication February 2, 2021
  - **Progressing stepwise FDA strategy** in pursuit of subsequent specific indications
  - **Sebaceous Hyperplasia** – Completed FDA IDE approved study and 510(k) submission in 4Q21, received Additional Information letter in 1Q22
  - **Common non-genital warts** – Completed treatments in FDA IDE approved study to generate data for a 510(k) submission
  - **Basal cell carcinoma** – Completed treatments and tissue analysis for FDA IDE approved treat and resect feasibility study
- **CE mark approval** received January 22, 2021
- **Health Canada approval** received June 9, 2021
- **Australian TGA approval** received November 8, 2021

# Upcoming Milestones

- **Increasing commercial utilization among nine program clinics**
- **Continue transition of Controlled Launch Program clinics to commercial use**
- **Clinical and regulatory activity to expand CellFX System clinical applications**
  - Subsequent 510(k) submissions
    - Anticipate further communication with FDA prior to any formal response to the Additional Information letter
    - Non-genital warts submission planned for after SH AI letter response
  - Anticipate meeting with the FDA to discuss a potential pivotal study to treat basal cell carcinoma lesions by end of 3Q22
- **Progress Clinical and Scientific programs**
  - Continued presence at global scientific meetings



As of July 2022

**130 issued  
patents  
globally  
owned  
& licensed**

Additional 104 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

# Financial Snapshot

## Revenue

2021 \$1.4 million

1Q 2022 \$444 thousand

2Q 2022 \$265 thousand

## Cash Utilization

2021 \$52.9 million

1Q 2022 \$15.9 million

2Q 2022 \$12.8 million

Completed restructuring initiatives in 2Q 2022, resulting in 21% reduction of operating expenses compared to the prior quarter

Completed \$15MM Rights Offering in June 2022, with potential to raise an additional \$15MM through the exercise of accompanying warrants



June 30, 2022

(In thousands)

Cash, cash equivalents & investments	\$ 14,798
Accounts Receivable	8
Inventory	7,871
Prepaid expenses & other assets	1,427
Property, plant and equipment	2,386
Goodwill & intangibles	5,674
Right of use assets	8,433
<b>Total assets</b>	<b>\$ 40,597</b>

Accounts payable & accrued liabilities	\$ 6,705
Deferred revenue	32
Lease liability	10,445
Stockholders' equity	23,415
<b>Total liabilities &amp; stockholders' equity</b>	<b>\$ 40,597</b>







Shares outstanding (as of 7/31/2022) 37,126



# Leadership Team

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

## MANAGEMENT

Darrin Uecker*	President & Chief Executive Officer		
Kevin Danahy	Chief Commercial Officer	 ZIMMER BIOMET	INTUITIVE  
Sandra Gardiner	EVP & Chief Financial Officer		
Mitch Levinson*	Chief Strategy Officer		ZELTIQ 

## BOARD OF DIRECTORS

### Bob Duggan, Chairman



### Maky Zanganeh, D.D.S.



### Mitch Levinson



### Richard van den Broek



### Manmeet Soni



### Shelley Spray



\*Also on Board of Directors

Thank You