

BioSig Technologies, Inc. (NASDAQ: BSGM) is a medical technology company commercializing a proprietary biomedical signal processing platform designed to improve the electrophysiology (EP) marketplace. With the global EP market projected to reach \$10.1B in 2024 with a 11.3% growth rate, BioSig has commenced a targeted commercial release of its **PURE EP™ System**, generating its first commercial sale in December 2020. The Company's first product is a computerized system designed to reveal the full range of cardiac signals and to provide physicians with signal clarity during procedures performed to address cardiac arrhythmias. The **PURE EP™ System** received FDA 510(k) clearance in August 2018. Physicians using BioSig's **PURE EP™ System** have successfully completed over 500 patient cases to date. Systems are currently installed at multiple locations, including Texas Cardiac Arrhythmia Institute at St. David's Medical Center, Mayo Clinic's Florida campus, Massachusetts General Hospital, the University of Pennsylvania, Deborah Heart and Lung Center, and Memorial Hospital of South Bend, IN.

Data Source: 2019 DRG MedTech 360 Report

### PURE EP™ System



### Key Growth Drivers

- Advanced Technology** – The non-invasive **PURE EP System** is a computerized system intended for acquiring, digitizing, amplifying, filtering, measuring and calculating, displaying, recording and storing of electrocardiographic and intracardiac signals for patients undergoing electrophysiology EP procedures in an EP laboratory under the supervision of licensed healthcare practitioners who are responsible for interpreting the data. The **PURE EP System** aims to minimize noise and artifacts, and acquire high-fidelity cardiac signals. Improving cardiac signals may potentially increase the diagnostic value of these signals, thereby possibly **improving accuracy and efficiency of the EP studies and ablation procedures**.
- Market Opportunity** – 2019 DRG Medtech 360 Report states the **global EP device** market is expected to exceed more than **US \$10.1 billion by 2024** and is growing at a compound annual growth rate (CAGR) of 11.3%. The Company also operates within the rapidly emerging field of **bioelectronic medicine**, estimated at **\$25.11 billion in 2020 with projected annual growth of 10.27%**.
- KOL Support** – **PURE EP** has been used and valued by many of the industry's leading electrophysiology physicians, including Dr. Andrea Natale of Texas Cardiac Arrhythmia Institute, and Dr. G. Joseph Gallinghouse. The Company achieved proof of concept validation through UCLA, and has performed numerous pre-clinical studies at Mayo Clinic, MN under the leadership of **Samuel J. Asirvatham, M.D., Mayo Clinic's Vice-Chair of Innovation and Medical Director, Electrophysiology Laboratory**.

### Market Snapshot NASDAQ: BSGM

Price (02/22/21)	\$4.92
Average Volume (30 day)	363,614
52-Wk. Range	\$2.36 - \$12.43
Float	23.0M
Shares Outstanding	30.3M
Market Cap	\$148.58M

### Recent Highlights

- Entered into **new installation agreements** for evaluation with New York-Presbyterian/Weill Cornell Medical Center, Michigan Medicine–University Hospital, and Houston Methodist Hospital
- Expanded Collaboration with Mayo Clinic on **AI and machine learning** technologies
- Deployed Vuzix M400 Smart Glasses for **remote servicing** capabilities
- Conducted first patient cases with PURE EP™ System** at Massachusetts General Hospital, the University of Pennsylvania, Deborah Heart and Lung Center, and Memorial Hospital of South Bend Indiana
- Achieved first commercial sale** – Texas Cardiac Arrhythmia Institute (HCA)
- A blinded, independent analysis confirmed that the **PURE EP™ system's signals are preferred** to conventional sources
- Successfully completed over **500 patient cases** with its **PURE EP™ System**

### BioSig Technologies, Inc.

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NASDAQ: **BSGM**

## PURE EP™ System

Proprietary Hardware and Software with Advanced Signal Processing Capabilities:

- To **Improve Signal Clarity** Through Reduction of 'Noise' and Artifacts
- To **Minimize Need for Repeat Procedures**
- To **Preserve Important Clinical Information**
- To **Shorten Procedure Times**
- To **Increase Confidence** in Performing Complex Ablations
- **Customizable** user control interface for a better understanding of ECG and intracardiac signals

## Projected Global EP Market—11.3% Growth reaching \$10.1B by 2024

- **Global Ablation Procedure Growth: 8.4%** growth rate, from 973,220 in 2017 to 1,455 projected million in 2022.
- **Complex Ablation Procedures:** 440,629 in 2017 to 830,390 in 2022; **13.5% projected growth rate**
- Estimated 3,425 EP rooms in US; 3,915 EP rooms OUS

Collaborating with Leading EPs from:



## Management and Past Experience

**Kenneth L. Londoner, MBA, Founder, Chairman, Chief Executive Officer, Director**

Endicott Management Partners; J & W Seligman & Co; Director: Alliqua

**Steve Chaussy, CPA, Chief Financial Officer**

Liberski Inc; Anna & Co; Penske Truck Leasing, Ford, Hogg & Cobbe

**Natasha Drapeau, Executive Vice President**

IG Group Plc, London, UK; Augeous Consulting, Geneva, Switzerland

**Barry Keenan, Ph.D, MBA, PMP, VP, Engineering**

Medtronic, Nexeon MedSystems, Alfred Mann Institute for Biomedical Engineering; Alfred Mann Foundation for Scientific Research

**John Kowalski, VP, Sales**

Biosense Webster (Johnson & Johnson)

**Andrew Ballou, VP, Investor Relations**

Janney Montgomery Scott LLC., RBC Capital Markets

**Todd Wiltshire, Senior VP, Corporate Development**

Fidelity Investments, Morgan Stanley

**Julie Stephenson, VP, Clinical Affairs**

Medtronic, Boston Scientific, Guidant Corporation

**Olivier Chaudoir, Sr. Director of Marketing**

Biosense Webster, DePuy Synthes

**Ewald Riechert, Director of Regulatory Affairs**

Acclarent, Allergan, Oriol STAT A MATRIX

## Proven Team

BioSig is operated by a **proven management team** and a **premier Board of Directors** with high levels of inside equity ownership.

BioSig brought together **leading physicians, executives and engineering experts** from leading medical centers of excellence, healthcare programs, Fortune 500 Companies and elite educational institutions for its **Advisory Board** including Mayo Clinic, Mount Sinai Medical Center, UCLA, Johnson & Johnson, Nasdaq and Prudential Securities.

**Kenneth L. Londoner, Chairman & CEO**, has a wealth of knowledge and experience that spans many decades and includes founding, running, and serving as Director to a number of life science companies. Mr. Londoner began his career with J. & W. Seligman & Co., Inc., a leading institutional money management firm where he rose from research analyst to managing \$3.5 billion in mutual funds, pension funds, and international assets.

**Steve Chaussy, CFO** has acted as a consultant for small publicly traded entities with a special emphasis towards SEC reporting and compliance; and served as CFO for a large private distribution and wholesaling company, where he gained international experience.

## Investment Highlights

- \$32 Million cash and no debt
- Achieved first revenues
- Member of the **Russell 3000® Index**
- Conducting **First Clinical Trial with PURE EP™ System**
- Significant Insider Ownership
- **10-year Strategic Collaboration with Mayo Clinic**
- **IP Strategy** Led by Sherpa Technology Group and Sterne Kessler Goldstein & Fox.—31 allowed/issued design and utility patents
- **FDA clearance** achieved
- Proven Management Team and Board of Directors
- **Global and Growing Addressable Market**
- Operates Within Rapidly Emerging Field of **Bioelectronic Medicine**

## Current Cardiac Arrhythmia Epidemic (1 In 18 or 14.4M Americans)

Two of the most **prevalent, complex and potentially deadly** types of arrhythmias today are **Atrial Fibrillation (AF)** and **Ventricular Tachycardia (VT)**. Ventricular arrhythmias account for approximately **300,000 sudden deaths per year** in the United States alone. Catheter ablation is fast becoming a first line therapy, driving demand for improved technologies. AF is the most common arrhythmia affecting **33.5 million people worldwide**, with as many as 6.1 million people in the U.S. now and expected 8-12 million by 2050. AF increases the risk of stroke 4x to 5x and contributes to ~750,000 hospitalizations per year. The direct cost of AF is approximately \$6B annually; adding other indirect costs brings **AF total cost to \$26B**.

## Directors

**Donald E. Foley, Director** - Former CEO & Chair: Wilmington Trust; Sr VP, Treas & Dir: ITT Corp; Asst Treas: International Paper Co.

**David Weild IV, MBA, Director** - Current Chairman & CEO; Weild & Co.; Former Vice Chairman: NASDAQ; Former Head of Corporate Finance & Equity Markets: Prudential Securities

**Patrick J. Gallagher, MBA, Director** - Mg Dir: Laidlaw & Co.; Kinex Pharmaceuticals; Director: Cingulate Therapeutics, BDR Research Group, GC Capital Partners, Kidder Peabody

**Jeffrey F. O'Donnell, Sr., Director** - Former CEO, Director: Trice Medical; Current Chair: SpectraWave; Director: AdvaMed Accel; Founder: Embrella Cardiovascular (sold to Edwards Lifesciences); CEO: PhotoMedex, Radiance Medical (Cardiovascular Dynamics), Kensey Nash; Sales/Mktg Mngt: Boston Scientific, Guidant, J&J; Former Director: Cardiac Science, Endologix

**Andrew Filler, Director** - Current Partner & General Counsel: Sherpa Technology Group, Nanosys; IP Counsel: Previvo Genetics; Board: Aira Technologies. Former: Caliper Life Sciences (sold to Perkin Elmer), Weil, Gotshal & Manges

**Samuel E. Navarro, Director** - Managing Partner: Gravitas Healthcare, LLC; Former Managing Director and Global Head of Medical Technology Investment Banking: Cowen & Company

**Martha Pease, Director** - Current Partner and Director at BCG (Boston Consulting Group)

**Anthony Zook, Director** - Former Vice President & Executive Officer at AstraZeneca Plc

Analyst Coverage: **Laidlaw & Co (UK) Ltd., Trickle Research**