

BioSig Technologies, Inc.

Reports Q3. We believe strong growth for its PURE EP system over the next year to drive stock higher. Lowering P/T to \$5.00.

Reports Q3: BioSig recently (on November 14) reported its fiscal Q3 2023 (ending September) results. Revenue was \$0.0 million compared to our and consensus estimates of \$0.1 million. EPS was (0.06), compared to our and consensus estimate of (0.08) - (0.09). There was no company guidance.

Still early stage: BioSig's recent financial performance is reflective of its early commercialization stage as it is currently focusing on sales and marketing of its products. Investors should be focused on its commercialization progress, which should drive strong revenue growth over the near term. In November, the company announced that Mayo Clinic-Phoenix (an existing user of the PURE EP Platform) has upgraded to the subscription model.

No guidance: The company did not provide forward guidance.

Adjusting estimates: We are adjusting our 2023 estimates for revenues to \$0.1 million, from \$0.3 million, and for EPS to \$(0.37) from \$(0.44).

Positive data: In May (as part of the Heart Rhythm 2023 conference), researchers from the Cleveland Clinic presented data from three abstracts showing the PURE EP Platform achieved equal lesion quality and dimension in a third of the time as conventional methods metrics in cardiac ablations.

Focused on PURE EP: The company has developed the PURE EP system whose enhanced signal acquisition, digital signal processing, and analysis provides key data used during ablation of cardiac arrhythmias. The PURE EP System is a FDA 510(k) cleared (in August 2018) non-invasive class II device.

PURE EP system: The PURE (Precise Uninterrupted Real-time evaluation of Electrograms) EP (Electrophysiology) System is designed to provide essential diagnostic signals during all types of cardiac catheter ablations (a procedure that involves delivery of energy through the tip of a catheter to correct heart rhythm arrhythmias). PURE EP is designed to address long-standing limitations that slow and disrupt cardiac catheter ablation procedures, such as environmental lab noise, signal saturation, slow signal recovery, and inaccurate display of fractionated potentials.

PURE EP benefits: PURE EP's features allow physicians to better determine precise ablation targets, strategy, and end point of procedures with the goal of reducing the need for patients to undergo multiple procedures, and to allow for less experienced EP physicians to perform more complex procedures.

3,000 procedures and growing: To date, more than 3,000 patient procedures have been conducted with the PURE EP System by more than 80 electrophysiologists across 21 different clinical sites in the U.S. The PURE EP System is currently in national commercial launch in the U.S. at healthcare systems such as Mayo Clinic, Texas Cardiac Arrhythmia Institute, Cleveland Clinic, and Kansas City Heart Rhythm Institute.

AI progress: The company has recently launched BioSig AI Sciences, Inc., a majority-owned subsidiary of BioSig, to develop AI solutions for the hospital marketplace utilizing structured, semi-structured, and unstructured data. In July 2023, BAIS completed its seed round of funding of \$2.2 million.

Balance sheet: The company has \sim \$0 in cash and no debt. In November (current Q4), the company raised \$2.5 million selling stock. We estimate it has enough cash into Q1 2024 so it will need to raise new capital soon.

Positive risks versus rewards: We believe the ~billion dollars market potential for PURE EP presents high rewards for the risks.

Current valuation attractive: We are maintaining our BUY rating, but lowering our 12-month price target to \$5.00 from \$5.25 based on a NPV analysis. This represents significant upside from the current share price and we believe appropriately balances out the high risks with large upside opportunities.

Company Description

BioSig Technologies, based in Westport, CT, is a medical technology company focused on improving the standard of care in electrophysiology (EP).

United States Healthcare

December 17, 2023

Edward Woo, CFA (561) 327-9435 ewoo@ascendiant.com

Stock Data

Exchange:	NasdaqCM
52-week Range:	0.26 - 1.65
Shares Outstanding (million):	88
Market cap (\$million):	\$32
EV (\$million):	\$32
Debt (\$million):	\$0
Cash (\$million):	\$0
Avg. Daily Trading Vol. (\$million):	\$0.3
Float (million shares):	72
Short Interest (million shares):	2
Dividend, annual (yield):	\$0 (NA%)

Revenues (US\$ million)

	<u>2023E</u> (Cur.)	<u>2023E</u> (Old)	<u>2024E</u> (Cur.)	<u>2024E</u> (Old)
Q1 Mar	0.0A		0.2E	0.3E
Q2 Jun	0.0A		0.3E	0.4E
Q3 Sep	0.0A	0.1E	0.4E	0.7E
Q4 Dec	<u>0.1E</u>	<u>0.2E</u>	<u>0.6E</u>	<u>1.1E</u>
Total	0.1E	0.3E	1.5E	2.5E
EV/Revs	320x		21x	

Earnings per Share (pro forma)

	<u>2023E</u>	<u>2023E</u>	<u>2024E</u>	<u>2024E</u>
	<u>(Cur.)</u>	<u>(Old)</u>	<u>(Cur.)</u>	<u>(Old)</u>
Q1 Mar	(0.12)A		(0.04)E	
Q2 Jun	(0.16)A		(0.04)E	(0.05)E
Q3 Sep	(0.06)A	(0.08)E	(0.04)E	(0.06)E
Q4 Dec	<u>(0.05)E</u>	<u>(0.08)E</u>	<u>(0.04)E</u>	<u>(0.07)E</u>
Total	(0.37)E	(0.44)E	(0.15)E	(0.22)E
P/E	N/A		N/A	

Important Disclosures

Ascendiant Capital Markets LLC seeks to do business with companies covered by its research team. Consequently, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making an investment decision.

For analyst certification and other important disclosures, refer to the Disclosure Section, located at the end of this report, beginning on page 21.

Rating: BUY

COMPANY

UPDATE

Ticker: **BSGM** Price: \$0.36 Target: \$5.00 (from \$5.25)



Exhibit 1: BioSig Technologies Corporate Overview



Reimagining what's possible in cardiac care

...

We are a medical technology company focused on deciphering the body's electrical signals, starting with heart rhythms.

By leveraging a first-of-its-kind combination of hardware and software, our technology delivers unprecedented cardiac signal clarity, ending the reliance on *mixed signals* and *reading between the lines*.





The PURE EP™ System

...

With PURE EP[™] we're removing unnecessary distractions to preserve the value of cardiac signals delivering clear actionable insights for today's Electrophysiologist.

The PURE EP[™] System aims to improve physician workflow efficiency and efficacy while decreasing cost per case.





Exhibit 2: BioSig Investment Highlights

Why BioSig Now?



The solution

Solving the unmet need for better intracardiac information that may improve success rates of ablation procedures.



Disruptive and novel technology

Our technology saves procedural time and improves workflow efficiency in an environment where the technology has not changed meaningfully in 25+ years.



Substantial and growing global market

Global EP market is growing by 11.2% and expected to reach \$16B by 2028.



Strong clinical data pipeline

Published/ongoing clinical studies supporting commercialization.



First customers are industry leaders World-renowned Medical Centers of Excellence.



Flexible pricing model Supports recurring revenue and continuous innovation.



Fortune 500 commercial team Proven track-record of generating sales growth.



Well-protected IP portfolio 59 Worldwide fundamental patents granted/allowed.

Source: Company reports.

Exhibit 3: BioSig Management Team

Leading with Strong Industry Experience



Kenneth L. Londoner, MBA Founder, Chairman, Chief Executive Officer, Director Endicott Management Partners; J & W Seligman & Co.; Visiting Professor, Columbia University



Gray Fleming Chief Commercial Officer St. Jude Medical; Abbott Laboratories



John Sieckaus Chief Operating Officer St. Jude Medical; Abbott Laboratories



Steve Buhaly Chief Financial Officer Qorvo; Longview Fibre; Planar System



Brenda Castrodad VP, Human Resources TissueTech, Inc.; HeartWare Inc.

Source: Company reports.

Ascendiant Capital Markets, LLC



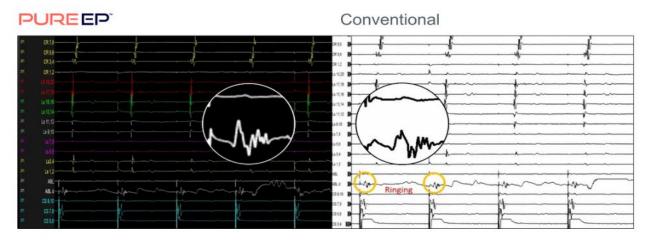
Exhibit 4: BioSig's PURE EP System

Clarity Breeds Opportunity

The PURE EP[™] System removes unnecessary distractions to preserve the value of cardiac signals and delivers clear, actionable insights for today's electrophysiologist.



PURE EP™ captures critical cardiac signals — even the most complex — to enhance clinical decision-making for all types of arrhythmias.



The Algorithmic Notch (AN) in PURE EP[™] can eliminate environmental noise without harmonic ringing, preserving all original physiologic details. Conventional classic notch (CN) creates artifact and signal attenuation, introducing false and misleading physiologic fractionation.





Exhibit 5: PURE EP Advanced Signal Acquisition Hardware

Advanced Signal Acquisition Hardware



LESS NOISE

Low-noise proprietary architecture enables acquisition of high-fidelity signals in the original, unfiltered format. The PURE EP™ Main System Unit (MSU) topology incorporates advanced shielding and very low noise front-end components.



HIGHER DEFINITION

PURE EP™ supports a large frequency bandwidth and linear signal acquisition to accurately display complex fractionated signals, even at lower amplitudes and higher frequencies.



WIDER RANGE

An expanded dynamic range retains cardiac signal details and reduces saturation. PURE EP™ combines a low-noise signal architecture with a fixed range up to 500mV, so signals are rarely clipped or limited by quantization noise.



UNIPOLAR SIGNALS

PURE EP[™] incorporates an innovative WCT+[™] design for acquiring unipolar signals, relying on a common front-end circuitry similar to how bipolar intracardiac signals are acquired.



Exhibit 6: BioSig's Recent History and Future Growth Plans

Accelerating Commercialization of the PURE EP[™] Platform



Looking at our current footprint







Exhibit 7: PURE EP System

The current PURE EP System



PURE EP™ System | Customer Installation

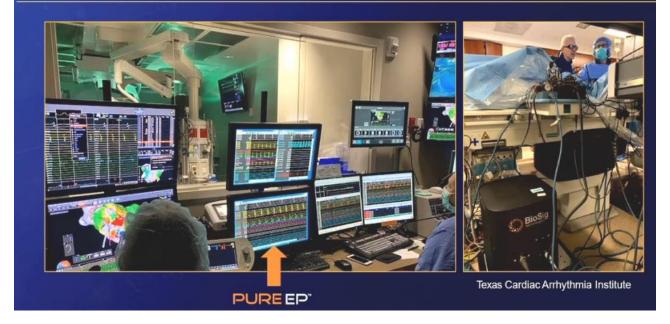
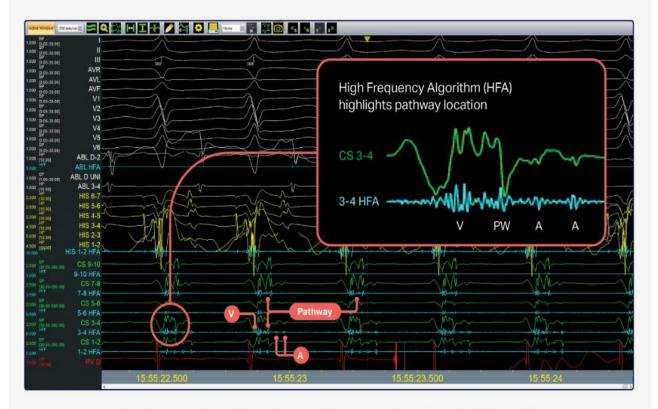




Exhibit 8: PURE EP HFA Example

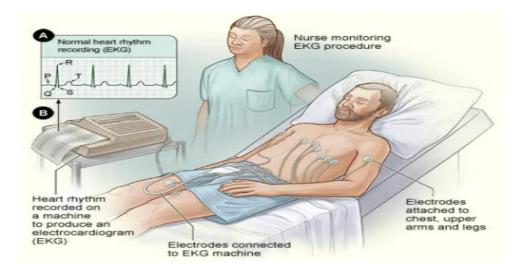
The High Frequency Algorithm (HFA) is a novel and proprietary feature that identifies the key frequency components of cardiac data that can be difficult to identify within the traditional waveform presentation.



The High Frequency Algorithm provides precise location of accessory pathway in the midst of fused bipolar signals.



Exhibit 9: Electrocardiogram (EKG/ECG) Test



Source: https://difference.guru/

Exhibit 10: Electrocardiogram (EKG/ECG) and the Heart

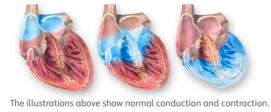


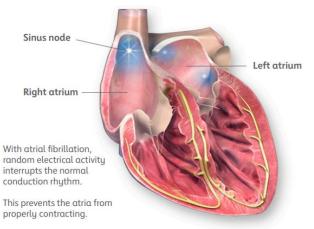
ECG strip showing a normal heartbeat



ECG strip showing bradycardia





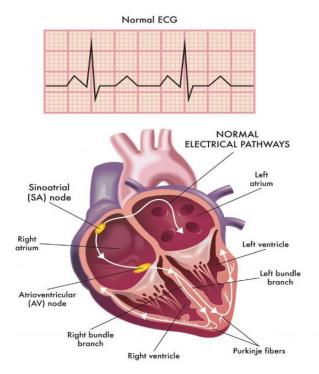


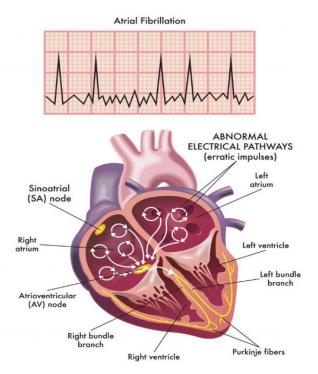
ECG strip showing tachycardia

Source: American Heart Association

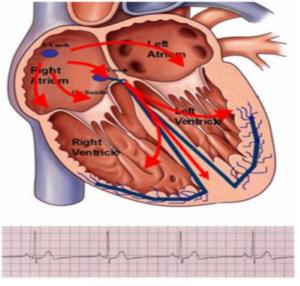


Exhibit 11: Electrocardiogram (EKG/ECG) and Atrial Fibrillation



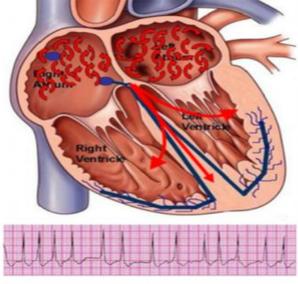


Normal sinus rhythm



60-100 bpm

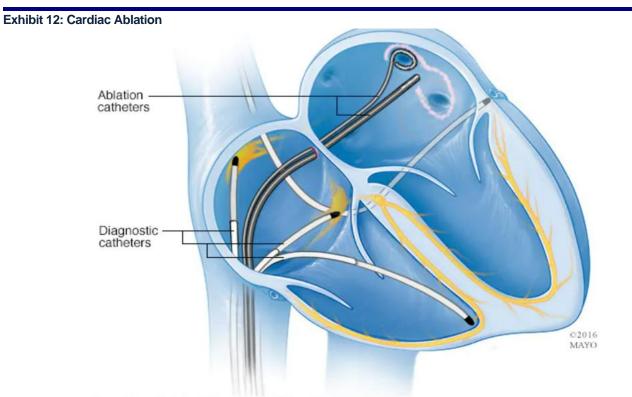
Atrial Fibrillation



80-160 bpm

Source: https://jamesknellermd.com/





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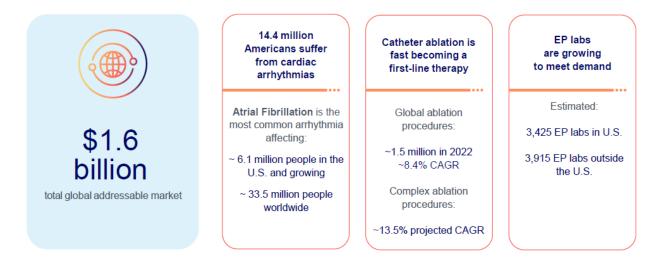
Cardiac ablation

Source: https://www.mayoclinic.org/



Exhibit 13: Global EP Market Opportunities

Growing into an Expanding Global Market



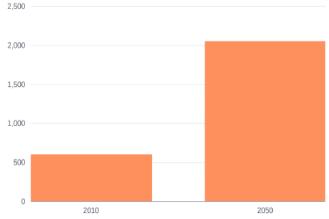
Source: Company reports.

Exhibit 14: Global EP Market Growth

Secular Tailwinds

\$16 billion Global EP market by 2028

- Projected 12.1 million AFib sufferers in US in 2030
- · Aging population of 65+
- · Studies show ablation as effective first-line treatment
- · Increasing patient preference for ablation
- · Resumption of elective surgeries post COVID



Worldwide Population of 65+



Exhibit 15: PURE EP Clinical Data

Strong Clinical Data

PURE EP 2.0

Signals from 51 patients undergoing any ablation procedure Multi-center (TCAI, Mayo, & MGH)

STUDY OBJECTIVE:

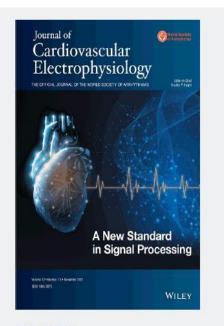
To determine the clinical value of the PURE EP signal when compared to conventional sources

RESULTS

Cumulatively, 75.2% of PURE EP signals rated as superior to conventional systems.

PURE EP signals were statistically rated as superior in (3) different categories:

- Overall signal quality 73% superior
- Ability to discern NF vs FF 83% superior
- Small fractionated signals of clinical interest 73% superior



PUBLICATION

Evaluation of a novel cardiac signal processing system for electrophysiology procedures: The PURE EP 2.0 study September 2021 Journal of Cardiovascular Electrophysiology

PURE EP[™] aims to improve physician workflow efficiency and efficacy while decreasing cost per case





Exhibit 16: BioSig Customer Highlights

Experience in Well-Respected Healthcare Institutions

"Having high-quality, better signals makes a difference in almost every case. Since we installed the system in our lab, the efficiency in which we operate has significantly improved."

> ∼Dhanunjaya DJ Lakkireddy, MD Kansas City Heart Rhythm Institute, Overland Park, KS complex AF Case Study Utilizing a New Standard in Signal Processi

Texas Cardiac Arrhythmia Institute

S†David's HealthCare MAYO CLINIC HCA MIDWEST HEART HEALTH & VASCULAR SPECIALISTS

RECENT HIGHLIGHTS

- Appointed Global MedTech Leader Fred Hrkac as New EVP
- Announced new PURE EP[™] subscription model adopted by Mayo Clinic Phoenix
- Launched new, innovative PURE EP[™] software features to improve procedure automation
- · Announced new tiered subscription model along with new features that provide expanded reimbursement options
- · Cleveland Clinic signed agreement as first subscription-based customer
- Research at HRS 2023 showed that PURE EP™ helped EPs distinguish healthy and scarred tissue, reducing procedure time
- · Announced creation of BioSig AI Sciences, a new subsidiary developing AI solutions for the hospital marketplace
- Signed Purchase Agreement with San Antonio Methodist Hospital
- Signed Purchase Agreement with Kansas City Rhythm Institute at Overland Park Medical Center
- · Signed Master Agreement with Hospital Corporation of America (HCA)
- Signed Purchase Agreement with Bellin Health in Green Bay, Wisconsin
- PURE EP[™] highlighted in a peer-reviewed case report (JAFIB- EP)
- Selected Plexus Corp. as its manufacturing partner
- Surpassed 3,000 procedures
- 100+ allowed/issued design and utility patents



Exhibit 17: Q4 2022 and Recent Corporate Highlights (as of January 19, 2023)

BioSig Issues Shareholder Update to Highlight Recent Achievements and Ongoing Developments

Westport, CT, Jan. 19, 2023 (GLOBE NEWSWIRE) --

- To date, the Company's FDA 510(k)-cleared PURE EP™ System has been used in approximately 3,000 patient cases across the United States
- The Company has built a robust pipeline of commercial sale prospects and expects multiple closings in first half of 2023
- New supporting clinical data to be published
- On January 10, 2023, we announced that Bellin Health entered into an agreement to acquire a PURE EP[™] System. Through a formal evaluation, Bellin reported that clear cardiac signals positively impacted procedural efficiency resulting in cost savings per procedure.
- Over 3,000 procedures have been performed using the PURE EP[™] System with more than 80 physicians at 21 hospitals across the United States.
- The PURE EP[™] System was featured in an abstract presentation at the 15th Asia Pacific Heart Rhythm Society (APHRS) Scientific Session in Singapore. Results from the randomized study revealed the PURE EP[™] System's potential to promote shorter procedural times and higher cost savings during catheter ablation procedures.
- BioSig's PURE EP[™] System was highlighted in a peer-reviewed case report by the Journal of Atrial Fibrillation & Electrophysiology (JAFIB-EP). This clinical abstract detailed the value of PURE EP[™] and its groundbreaking High Frequency Algorithm (HFA) during pulmonary vein isolation.
- A Master Research Agreement was signed with the Cleveland Clinic to explore expanded applications for its digital signal
 processing technology.
- A purchase agreement was signed with San Antonio Methodist Hospital.
- Launched PURE EP[™] software Version 6 with ACCUVIZ[™] Module highlighting the proprietary High Frequency Algorithm (HFA), a
 novel feature that identifies the key frequency components of cardiac data that can be difficult to identify within the traditional
 waveform presentation.
- Cleveland Clinic, a leading Medical Center of Excellence, agreed to evaluate the PURE EP System, and a short time later requested a second system for evaluation.
- · A purchase agreement was signed with Kansas City Heart Rhythm Institute at Overland Park Regional Medical Center.
- The PURE EP™ System was featured at numerous conferences including Kansas City Heart Rhythm Symposium 2022, the 17th Edition Venice Arrhythmias 2022 Congress, and EPLive 2022.

Exhibit 18: Strategic Focus for 2024 and Recent Corporate Highlights (as of December 6, 2023)

BioSig Issues Letter to Shareholders Detailing Technology Innovations and Strategic Focus for 2024

Westport, CT, Dec. 06, 2023 (GLOBE NEWSWIRE) -- <u>BioSig Technologies, Inc.</u> (Nasdaq: BSGM) ("BioSig" or the "Company"), a medical technology company delivering unprecedented accuracy and precision to intracardiac signal visualization, today issued its 2023 letter to shareholders to recap recent achievements and offer insights about the year ahead.

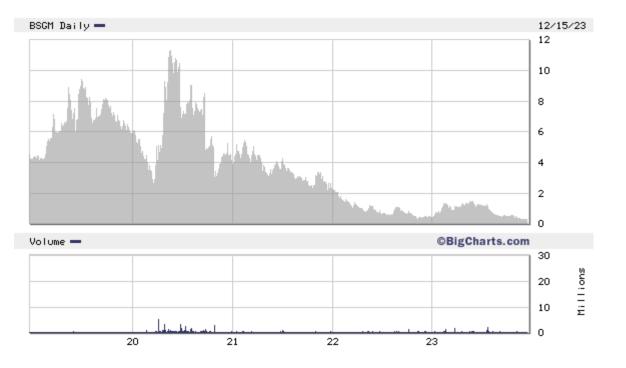
In the letter, Kenneth Londoner, Chairman & CEO of BioSig, states "BioSig's capacity for innovation is stronger than ever, and to our knowledge, our opportunities for sustainable growth are achievable.... We expect to deliver significant progress in the year ahead."

Topics discussed in the letter include:

- The latest PURE EP[™] software features and functionality that, to our knowledge, no other intracardiac signaling technology provides.
- Data demonstrating BioSig's capacity to drive clinical excellence.
- Research and development for an artificial intelligence (AI) medical device platform.
- Robust intellectual property and manufacturing upgrade.
- Fundraising and capital allocation.
- Vision for the future and commitment to shareholders.







Source: https://bigcharts.marketwatch.com/

Exhibit 20: Consensus Expectations (as of November 14, 2023)

	Revenue (mil)			EPS	
	<u>2023E</u>	<u>2024E</u>		<u>2023E</u>	<u>2024E</u>
Q1 Mar	\$0.0A		Q1 Mar	\$(0.12)A	
Q2 Jun	\$0.0A		Q2 Jun	\$(0.16)A	
Q3 Sep	\$0.1E		Q3 Sep	\$(0.09)E	
Q4 Dec	\$0.2E		Q4 Dec	\$(0.09)E	
Total	\$0.3E	\$2.2E	Total	\$(0.44)E	\$(0.29)E

*Quarterly estimates may not add to annual estimates due to variations in contributing estimates and rounding.

Source: Company report, Refinitiv, and Ascendiant Capital Markets estimates



FINANCIAL MODEL

ncome Statement (\$ mils)	Mar-21	Jun-21	Sep-21	Dec-21	2021	Mar-22	Jun-22	Sep-22	Dec-22	2022	Mar-23	Jun-23	Sep-23	Dec-23	2023	Mar-24	Jun-24	Sep-24	Dec-24	2024
iscal Year End: December 31	Q1A	Q2A	Q3A	Q4A	FY-A	Q1A	Q2A	Q3A	Q4A	FY-A	Q1A	Q2A	Q3A	Q4E	FY-E	Q1E	Q2E	Q3E	Q4E	FY-
Total Revenue	0.1	0.2	0.1	0.0	0.4	0.0	0.0	0.1	0.1	0.3	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.6	1
Cost of Development	0.4	0.4	0.0	0.0		0.0		0.0	0.0	0.4		0.0	0.0	0.0		0.4	0.4	0.4	0.0	
Cost of Revenues Gross Profit	<u>0.1</u> 0.0	<u>0.1</u> 0.1	<u>0.0</u> 0.1	0.0	<u>0.2</u> 0.2	<u>0.0</u> 0.0	0.0	<u>0.0</u> 0.1	<u>0.0</u> 0.1	<u>0.1</u> 0.2	<u>0.0</u> 0.0	<u>0.0</u> 0.0	<u>0.0</u> 0.0	<u>0.0</u> 0.1	<u>0.0</u> 0.1	<u>0.1</u> 0.2	<u>0.1</u> 0.2	<u>0.1</u> 0.3	<u>0.2</u> 0.5	0 1
Gross Pront	0.0	0.1	0.1	0.0	0.2	0.0	0.0	0.1	0.1	0.2	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.5	1.
Research & development	1.3	1.7	1.3	1.4	5.6	1.6	1.4	1.7	1.1	5.8	1.1	1.7	1.1	1.1	5.0	0.4	0.5	0.6	0.5	1
General & administrative	7.3	6.5	6.5	7.6	27.9	6.4	4.3	4.8	5.9	21.4	6.2	9.1	2.8	3.0	21.2	3.0	3.0	3.0	3.0	12
Depreciation	0.0	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.2	0.5	0.2	0.2	0.2	0.2	0
Restructuring and other			••••	••••	0.0			••••		0.0					0.0					0
Total operating expenses	8.6	8.2	7.9	9.0	33.7	8.1	5.7	6.6	7.1	27.5	7.4	10.9	4.1	4.3	26.7	3.6	3.7	3.8	3.7	14
Operating income (loss)	(8.6)	(8.1)	(7.8)	(9.0)	(33.4)	(8.1)	(5.7)	(6.5)	(7.0)	(27.3)	(7.4)	(10.9)	(4.1)	(4.2)	(26.6)	(3.4)	(3.5)	(3.5)	(3.2)	(13.
Interest income (expense)	0.0		0.0		0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Other income (expense)	<u>0.2</u>	<u>0.3</u>	<u>0.5</u>	<u>0.4</u>	<u>1.5</u>	<u>0.1</u>	<u>(0.2)</u>	<u>0.1</u>	<u>(0.0)</u>	<u>(0.0)</u>	<u>0.0</u>	<u>(0.2)</u>	<u>(0.5)</u>	<u>0.0</u>	<u>(0.7)</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0</u>
Income before income taxes	(8.3)	(7.7)	(7.3)	(8.6)	(31.9)	(8.0)	(5.9)	(6.4)	(7.0)	(27.3)	(7.3)	(11.1)	(4.6)	(4.2)	(27.2)	(3.4)	(3.5)	(3.5)	(3.2)	(13
Income taxes	(0.0)	(77)	(7.0)	(0, 0)	0.0	(0,0)	(5.0)	(0.4)	(7.0)	0.0	(7.0)	(44.4)	(4.0)	0.0	0.0	0.0	0.0	0.0	0.0	0
Net income (loss)	(8.3)	(7.7)	(7.3)	(8.6)	(31.9)	(8.0)	(5.9)	(6.4)	(7.0)	(27.3)	(7.3)	(11.1)	(4.6)	(4.2)	(27.2)	(3.4)	(3.5)	(3.5)	(3.2)	(13
Nonrecurring/noncash adjustme	Ints				0.0					0.0					0.0					c
Net income (pro forma)	(8.3)	(7.7)	(7.3)	(8.6)	(31.9)	(8.0)	(5.9)	(6.4)	(7.0)	(27.3)	(7.3)	(11.1)	(4.6)	(4.2)	(27.2)	(3.4)	(3.5)	(3.5)	(3.2)	(13
u /																				
EBITDA																				
Shares, Basic	31.6	32.2	34.9	35.5	33.51	36.0	39.8	45.0	49.5	42.6	61.4	70.3	75.4	88.1	73.8	89.1	90.1	91.1	92.1	90
Shares, Diluted	31.6	32.2	34.9	35.5	33.5	36.0	39.8	45.0	49.5	42.6	61.4	70.3	75.4	88.1	73.8	89.1	90.1	91.1	92.1	90.
EPS Basic (pro forma)	(\$0.26)	(\$0.24)	(\$0.21)	(\$0.24)	(\$0.95)	(\$0.22)	(\$0.15)	(\$0.14)	(\$0.14)	(\$0.64)	(\$0.12)	(\$0.16)	(\$0.06)	(\$0.05)	(\$0.37)	(\$0.04)	(\$0.04)	(\$0.04)	(\$0.04)	(\$0.1
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EPS Diluted (pro forma)	(\$0.26)	(\$0.24)	(\$0.21)	(\$0.24)	(\$0.95)	(\$0.22)	(\$0.15)	(\$0.14)	(\$0.14)	(\$0.64)	(\$0.12)	(\$0.16)	(\$0.06)	(\$0.05)	(\$0.37)	(\$0.04)	(\$0.04)	(\$0.04)	(\$0.04)	(\$0.1
																				-
Margins																				
Gross margin	16%	70%	65%	100%	55%	100%	100%	78%	80%	80%	100%	#DIV/0!	75%	75%	76%	75%	75%	75%	75%	75
Research & development	1073%	805%	1218%	16925%	1270%	20213%	16888%	1284%	830%	2035%	21240%	#DIV/0!	114500%	1100%	4732%	175%	175%	140%	80%	128
General & administrative	6162%	3130%	6023%	94963%	6316%	80013%	53775%	3536%	4373%	7476%	124900%	#DIV/0!	281500%	3000%	######	850%	750%	600%	500%	800
Operating margin	-7254%	-3889%	-7223%	-112488%	-7576%	-100813%	-71450%	-4804%	-5184%	-9533%	-147720%	NM	-405100%	-4225%	######	-1700%	######	-865%	-538%	-906
Tax rate, GAAP	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	(
Net margin	-7052%	-3722%	-6718%	-108075%	-7239%	-99563%	-73375%	-4734%	-5219%	-9535%	-146680%	NM	-456900%	-4225%	######	-1700%	######	-865%	-538%	-90
Y/Y % change																				
Total Revenue						-93%	-96%	25%	1588%	-35%	-38%	-100%	-99%	-26%	-63%	3900%	#######	<i></i>	500%	131
Gross margin						-58%	-90%	23 % 50%	1250%	-5%	-38%		-99%	-31%	-65%		#######			128
Research & development					-69%	-71%	-16%	28%	-35%	-3%	-82%		-33%	-4%	-03%	-93%	50%	7%		-62
General & administrative					-32%	-71%	-33%	11%	-35%	-23%	-02%		-33%	-4%	-14%	-93%	0%	0%	-14%	-4
Operating income (loss)					-32%	-77%	-33%	-17%	-22%	-23%	-71%		-09%	-40%	-1%	-54%	-68%	-15%		-4
Net income (loss)					-44% -39%	-6% -4%	-29%	-17%	-22% -19%	-18%	-8%		-38% -29%	-40%	-3% 0%	-54%	-68%	-15%	-24%	-4
EPS Diluted (pro forma)					-39% -49%	-4% -16%	-24%	-12%	-19% -42%	-15%	-8%		-29%	-40% -66%	-42%	-54%	-68% -75%	-24% -37%	-24%	-5
LES Diluted (pro torma)					-49%	-10%	-30%	-32%	-4∠%	-33%	-40%	1 70	-01%	-00%	-42%	-00%	-10%	-31%	-21%	- ⁵

Source: Company reports and Ascendiant Capital Markets estimates.



BioSig Technologies, Inc.

Balance Sheet (\$ mils)	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22	Jun-22	Sep-22	Dec-22	Mar-23	Jun-23	Sep-23	Dec-23	Mar-24	Jun-24	Sep-24	Dec-24
Fiscal Year End: December 31	Q1A	Q2A	Q3A	Q4A	Q1A	Q2A	Q3A	Q4A	Q1A	Q2A	Q3A	Q4E	Q1E	Q2E	Q3E	Q4E
Assets																
Cash and cash equivalents	22.5	15.5	17.5	11.7	8.7	5.1	0.9	0.4	1.4	1.3	0.4	0.8	(8.2)	(11.5)	(14.8)	(17.8)
Short term investments					-							0.0	0.0	0.0	0.0	0.0
Accounts receivable, net		0.2	0.1				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Inventory	0.7	0.7	1.9	1.9	2.0	2.0	1.7	0.3	0.3	0.2	0.2	0.3	1.6	1.5	1.6	1.8
Deferred income taxes												0.0	0.0	0.0	0.0	0.0
Prepaid expenses and other	0.2	0.5	0.5	0.4	0.3	0.6	0.5	0.4	0.4	0.5	0.4	0.0	0.1	0.1	0.1	0.2
Total current assets	23.3	16.9	20.0	13.9	11.0	7.7	3.1	1.1	2.2	2.0	1.1	1.2	(6.5)	(9.8)	(13.1)	(15.7)
							••••						()	()	()	(,
Property and equipment, net	0.4	0.4	0.6	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.5
Leases	0.4	0.3	0.7	0.6	0.5	0.9	0.9	0.8	0.7	0.6	0.5	0.5	0.5	0.5	0.5	0.5
Intangibles, net	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Deferred income tax	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.1	0.1	0.1	0.0	0.0	0.0	0.0	1.2	1.4	0.5	0.7	0.0	0.0	0.0	0.0	0.0
Total assets	24.5	18.0	21.7	15.5	12.5	<u>9.6</u>	5.0	4.1	5.2	<u>4.1</u>	3.2	2.5	(5.2)	(8.6)	(11.9)	(14.4)
						0.0	0.0				•		(0.2)	(0.0)	()	()
Liabilities and stockholders' equity																
Accounts payable	3.5	3.0	2.2	2.2	2.3	1.5	2.1	2.9	2.4	2.9	3.5	3.5	1.0	1.5	2.0	3.0
Accrued expenses	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	1.5	0.1	0.1	0.1	0.1
Deferred revenue	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Deferred income tax	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0
Warrant liabilities												0.0	0.0	0.0	0.0	0.0
Leases	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Other	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Short term debt											0.0	0.0	0.0	0.0	0.0	0.0
Total current liabilities	3.9	3.4	2.6	2.6	2.7	1.9	2.5	3.3	2.8	3.3	3.9	5.3	1.4	1.9	2.4	3.5
Deferred income taxes												0.0	0.0	0.0	0.0	0.0
Warrant liabilities												0.0	0.0	0.0	0.0	0.0
Other long term liabilities												0.0	0.0	0.0	0.0	0.0
Leases	0.0	0.0	0.4	0.4	0.3	0.6	0.5	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Deferred revenue	0.0	0.0	0.0	0.0			0.0		-			0.0	0.0	0.0	0.0	0.0
Minority interest	0.6	0.4	0.4	0.2	0.0	0.1		(0.0)	(0,1)	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Long term debt								(/	(* 7			0.0	0.0	0.0	0.0	0.0
Total other liabilities	0.6	0.4	0.9	0.6	0.3	0.7	0.5	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3
Preferred stock	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Common stock	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	(0.3)	(0.6)	(1.0)	(1.4)	(1.7)
Additional paid-in capital	185.2	187.1	198.4	201.1	206.2	209.5	210.8	216.2	225.2	234.6	237.7	237.7	237.7	237.7	237.7	237.7
Retained earnings	(165.3)	(173.0)	(180.3)	(188.9)	(196.9)	(202.6)	(209.0)	(216.0)	(223.3)	(234.4)	(239.0)	(243.2)	(246.6)	(250.1)	(253.6)	(256.8)
Other												2.5	2.5	2.5	2.5	2.5
Accumulated other comprehensive in	come											0.0	0.0	0.0	0.0	0.0
Total stockholders' equity	20.0	14.2	18.2	12.3	9.5	7.0	1.9	0.4	2.1	0.3	(1.1)	(3.1)	(6.9)	(10.8)	(14.6)	(18.2)
Total stockholders' equity and liabil	24.5	18.0	21.7	15.5	12.5	9.6	5.0	4.1	5.2	4.1	3.2	2.5	(5.2)	(8.6)	(11.9)	(14.4)
• • • • • •													/			· · · ·

	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22	Jun-22	Sep-22	Dec-22	Mar-23	Jun-23	Sep-23	Dec-23	Mar-24	Jun-24	Sep-24	Dec-24
	Q1A	Q2A	Q3A	Q4A	Q1A	Q2A	Q3A	Q4A	Q1A	Q2A	Q3A	Q4E	Q1E	Q2E	Q3E	Q4E
Prepaid as % of total rev	177%	249%	447%	4425%	3888%	7913%	375%	316%	7520%	#DIV/0!	42900%	7520%	37%	37%	37%	37%
Inventory as % of total rev	551%	353%	1742%	23513%	25325%	25325%	1253%	249%	6900%	#DIV/0!	21900%	300%	800%	500%	400%	300%
A/P as % of total rev	2931%	1462%	2008%	27238%	29300%	18138%	1550%	2113%	47840%	#DIV/0!	347000%	2000%	500%	500%	500%	500%
Accrued exp related as % of total rev	64%	37%	73%	1025%	1050%	1075%	66%	67%	1860%	#DIV/0!	9800%	1500%	40%	20%	20%	20%
Activity Ratios																
A/R Days Sales Outstanding	0	87	83	0	0	0	3	6	306	#DIV/0!	1260	10	10	10	10	10
Book & Cash Value (per share)																
Book Value per Share (diluted)	\$0.63	\$0.44	\$0.52	\$0.35	\$0.26	\$0.17	\$0.04	\$0.01	\$0.03	\$0.00	-\$0.01	-\$0.04	-\$0.08	-\$0.12	-\$0.16	-\$0.20
Cash per Share (diluted)	\$0.71	\$0.48	\$0.50	\$0.33	\$0.24	\$0.13	\$0.02	\$0.01	\$0.02	\$0.02	\$0.01	\$0.01	-\$0.09	-\$0.13	-\$0.16	-\$0.19
Net cash per Share (diluted)	\$0.71	\$0.48	\$0.50	\$0.33	\$0.24	\$0.13	\$0.02	\$0.01	\$0.02	\$0.02	\$0.01	\$0.01	-\$0.09	-\$0.13	-\$0.16	-\$0.19

Source: Company reports and Ascendiant Capital Markets estimates



Cash Flow Statement (\$ mils)	Mar-21	Jun-21	Sep-21	Dec-21	2021	Mar-22	Jun-22	Sep-22	Dec-22	2022	Mar-23	Jun-23	Sep-23	Dec-23	2023	Mar-24	Jun-24	Sep-24	Dec-24	2024
iscal Year End: December 31	Q1A	Q2A	Q3A	Q4A	FY-A	Q1A	Q2A	Q3A	Q4A	FY-A	Q1A	Q2A	Q3A	Q4E	FY-E	Q1E	Q2E	Q3E	Q4E	FY-E
Cash flow from operating activ	ities																			
Net income	(8.6)	(8.1)	(7.2)	(9.0)	(32.9)	(8.1)	(5.7)	(6.5)	(7.0)	(27.3)	(7.4)	(11.1)	(4.1)	(4.2)	(26.8)	(3.4)	(3.5)	(3.5)	(3.2)	(13.
Depreciation	0.0	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.1	0.4
Amortization					0.0					0.0					0.0					0.
Non-cash lease expense	0.1	0.1	0.1	0.1	0.4	0.1	0.1	0.1	(0.2)	0.0	0.1	0.1	0.1		0.2					0.
Debt related amortization expe	nse				0.0					0.0					0.0					0.
Stock comp	2.5	1.8	2.3	2.9	9.5	2.0	0.2	0.5	1.7	4.4	2.1	4.7	(0.4)	(0.4)	6.2	(0.4)	(0.4)	(0.4)	(0.4)	(1
Deferred income taxes					0.0					0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.
Change in fair value of warrant	liability	0.3			0.3	0.0				0.0					0.0					0.
Writedowns and impairments					0.0					0.0		1.3			1.3					0.
Other gains/losses			(0.6)		(0.6)					0.0					0.0					0.
Other			(/		0.0				0.4	0.4					0.0					0.
Changes in operating assets and	liabilities								-	-										
Accounts receivable		(0.2)	0.1	0.1	0.0			(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	0.0	0.0	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.1
Inventory	0.1	(0.1)	(1.2)	(0.0)	(1.1)	(0.1)		0.2	0.2	0.3	(0.0)	(0.0)	(0.0)	(0.1)	(0.1)	(1.3)	0.1	(0.1)	(0.2)	(1.
Prepaid expenses & other curre		(0.3)	0.0	0.2	0.0	0.0	(0.3)	0.1	0.0	(0.2)	(0.2)	(0.4)	(0.1)	0.4	(0.2)	(0.1)	(0.0)	(0.0)	(0.1)	(0.:
Income tax	5 0.1	(0.0)	0.0	0.2	0.0	0.0	(0.0)	0.1	0.0	0.0	(0.2)	(0.1)	(0.1)	0.1	0.0	(0.1)	(0.0)	(0.0)	(0.1)	0.0
Other assets					0.0					0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
	(1.3)	(0.4)	(0.3)	0.0	(2.0)	0.2	(0.9)	0.6	0.9	0.8	(0.4)	0.5	0.6	0.0	0.0	(2.5)	0.5	0.5	1.0	(0.6
Accounts payable	(1.3)	(0.4)	(0.3)	0.0	0.0	0.2	(0.9)	0.0	0.9	0.0	(0.4)	0.5	0.0	1.4	1.4	(2.3)	(0.0)	0.0	0.0	(0.4
Accrued expenses		(0.0)	(0,0)	(0.0)		(0.0)	(0.0)	(0.0)	(0.0)		(0.0)			1.4		(1.4)	(0.0)	0.0	0.0	
Deferred revenue	0.1	(0.0)	(0.0)	(0.0)	0.0	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.4)	(0.4)		(0.0)					0.0
Other liabilities	<u>(0.1)</u>	<u>(0.1)</u>	<u>(0.1)</u>	<u>(0.1)</u>	<u>(0.4)</u>	<u>(0.1)</u>	<u>(0.1)</u>	<u>(0.1)</u>	<u>(0.1)</u>	<u>(0.4)</u>	<u>(0.1)</u>	<u>(0.1)</u>	<u>(0.1)</u>	0.0	<u>(0.2)</u>	<u>0.0</u>	0.0	0.0	<u>0.0</u>	<u>0.0</u>
Net cash (used in) provided by	(7.0)	(6.9)	(6.8)	(5.7)	(26.4)	(5.9)	(6.7)	(4.9)	(4.1)	(21.7)	(5.6)	(4.9)	(3.8)	(2.0)	(16.4)	(8.9)	(3.2)	(3.3)	(2.7)	(18.3
Cash flow from investing activi	ties																			
Purchases of property and equ		(0.1)	(0.2)	(0.1)	(0.5)	(0.1)	(0.0)	(0.1)	(0.1)	(0.2)	(0.0)	(0.1)	(0.1)	(0.0)	(0.2)	(0,1)	(0.1)	(0.0)	(0.2)	(0.4
Purchases of short-term investi		(0.1)	(0.2)	(0.1)	0.0	(0.1)	(0.0)	(0.1)	(0.1)	0.0	(0.0)	(0.1)	(0.1)	(0.0)	0.0	(0.1)	(0.1)	(0.0)	(0.2)	0.0
Acquisitions	nonto				0.0					0.0					0.0					0.0
Other					0.0					0.0					0.0					0.0
	(0.4)	(0.4)	(0.0)	(0.4)		(0.4)	(0.0)	(0.4)	(0.4)		(0.0)	(0.4)	(0.4)	(0.0)		(0.4)	(0.4)	(0.0)	(0.0)	
Net cash used in investing acti	(0.1)	(0.1)	(0.2)	(0.1)	(0.5)	(0.1)	(0.0)	(0.1)	(0.1)	(0.2)	(0.0)	(0.1)	(0.1)	(0.0)	(0.2)	(0.1)	(0.1)	(0.0)	(0.2)	(0.4
Cash flow from financing activ	ities																			
Issuance of debt					0.0					0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.0
Repayment of debt					0.0					0.0					0.0					0.0
Issuance of stock	1.3		9.0	(0.0)	10.3	3.0	3.1	0.8	3.4	10.4	6.7	4.8	1.1	0.0	12.6	0.0	0.0	0.0	0.0	0.0
Proceeds from stock option ex	e 0.0			· · /	0.0				0.2	0.2					0.0					0.0
Other				ł	0.0					0.0			2.0	2.5	4.5					0.0
Dividends and distributions					0.0					0.0					0.0					0.0
Cash provided by (used in) fina	a 1.3	0.0	9.0	(0.0)	10.3	3.0	3.1	0.8	3.6	10.6	6.7	4.8	3.0	2.5	17.1	0.0	0.0	0.0	0.0	0.
Effect of exchange rate on cash					0.0					0.0					0.0					0.
-																				-
Net increase (decrease) in cas		(7.0)	2.0	(5.9)	(16.6)	(3.0)	(3.6)	(4.2)	(0.5)	(11.3)	1.1	(0.2)	(0.9)	0.5	0.5	(9.0)	(3.3)	(3.4)	(3.0)	(18.
Beginning cash and equivalent	£ 28.3	22.5	15.5	17.5	28.3	11.7	8.7	5.1	0.9	11.7	0.4	1.4	1.3	0.4	0.4	0.8	(8.2)	(11.5)	(14.8)	0.
Ending cash and equivalents	22.5	15.5	17.5	11.7	11.7	8.7	5.1	0.9	0.4	0.4	1.4	1.3	0.4	0.8	0.8	(8.2)	(11.5)	(14.8)	(17.8)	(17

Source: Company reports and Ascendiant Capital Markets estimates



ANALYST CERTIFICATION

Each analyst hereby certifies that the views expressed in this report reflect the analyst's personal views about the subject securities or issuers. Each analyst also certifies that no part of the analyst's compensation was, is, or will be, directly or indirectly, related to the specific recommendations or views expressed in this report. The analyst who prepared this report is compensated based upon the overall profitability of Ascendiant Capital Markets, LLC, which may, from time to time, include the provision of investment banking, financial advisory and consulting services. Compensation for research is based on effectiveness in generating new ideas for clients, performance of recommendations, accuracy of earnings estimates, and service to clients.

BioSig Technologies, Inc.

• Ascendiant Capital Markets, LLC has received compensation for advisory or investment banking services from the company in the past 12 months.

IMPORTANT DISCLOSURES

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Ascendiant Capital Markets, LLC Rating System

BUY: We expect the stock to provide a total return of 15% or more within a 12-month period.



- HOLD: We expect the stock to provide a total return of negative 15% to positive 15% within a 12-month period.
- SELL: We expect the stock to have a negative total return of more than 15% within a 12-month period.

Total return is defined as price appreciation plus dividend yield.

Ascendiant Capital Markets, LLC Distribution of Investment Ratings (as of October 13, 2023)

			Investment Banking Services Past 12 months						
Rating	Count	Percent	Count	Percent					
Buy	51	98%	19	37%					
Hold	0	0%	0	0%					
Sell	1	2%	0	0%					
Total	52	100%	19	37%					

Other Important Disclosures

Our analysts use various valuation methodologies including discounted cash flow, price/earnings (P/E), enterprise value/EBITDAS, and P/E to growth rate, among others. Risks to our price targets include failure to achieve financial results, product risk, regulatory risk, general market conditions, and the risk of a change in economic conditions.

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