UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 8-K

CURRENT REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

Date of Report (Date of earliest event reported): July 12, 2023

ORCHESTRA BIOMED HOLDINGS, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation)

001-39421 (Commission File Number)

92-2038755 (IRS Employer Identification No.)

150 Union Square Drive New Hope, Pennsylvania 18938 (Address of principal executive offices, including zip code)

Registrant's telephone number, including area code: (215) 862-5797

(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b)) Pre-commencement communications pursuant to Rule 13d-2(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

		Name of each exchange on which
Title of each class	Trading Symbol(s)	registered
Common stock, par value \$0.0001 per share	OBIO	The Nasdaq Global Market

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company \square

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Item 7.01. Regulation FD Disclosure.

A copy of a slide presentation that Orchestra BioMed Holdings, Inc. (the "Company") uses at investor and industry conferences and presentations is attached to this Current Report on Form 8-K ("Current Report") as Exhibit 99.1 and is incorporated herein solely for purposes of this Item 7.01 disclosure. Additionally, the Company has posted the slide presentation on its website at https://investors.orchestrabiomed.com under the Investor Relations section.

The information in Item 7.01 of this Current Report, including Exhibit 99.1 attached hereto, is being furnished and shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of such section. The information in Item 7.01 of this Current Report, including Exhibit 99.1, shall not be incorporated by reference into any filing under the Securities Act of 1933, as amended, or the Exchange Act, regardless of any incorporation by reference language in any such filing.

Item 9.01.	Financial Statements and Exhibits.				
(d) Exhibits.					
Exhibit Number	Description				
<u>99.1</u> 104	Investor Presentation. Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101).				

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

ORCHESTRA BIOMED HOLDINGS, INC.

/s/ David Hochman David P. Hochman Chief Executive Officer By: Name: Title:

Date: July 12, 2023

Orchestra BioMed

Forward-Looking Statements

This presentation has been prepared for informational purposes only from information supplied by Orchestra BioMed Holdings, Inc., referred to herein as "we," "our," "Orchestra BioMed," and "the Company," and from third-party sources indicated herein. Such third-party information has not been independently verified. Orchestra BioMed makes no representation or warranty, expressed or implied, as to the accuracy or completeness of such information.

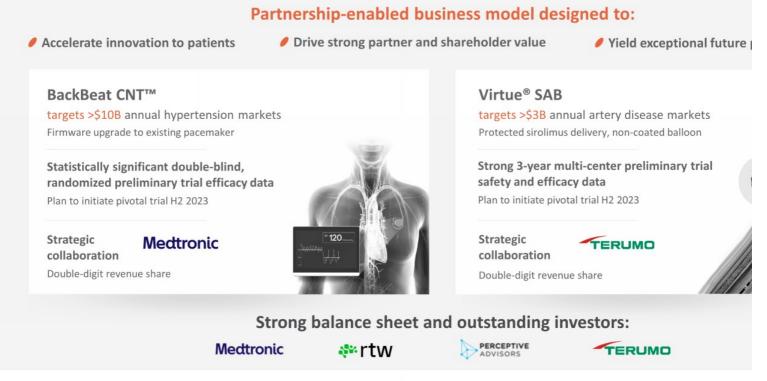
Certain statements included in this document that are not historical facts are forwardlooking statements for purposes of the safe harbor provisions under the United States Private Securities Litigation Reform Act of 1995. Forward-looking statements generally are accompanied by words such as "believe," "may," "will," "estimate," "continue," "anticipate," "intend," "expect," "should," "would," "plan," "predict," "potential," "seem," "seek," "future," "outlook" and similar expressions that predict or indicate future events or trends or that are not statements of historical matters. These forwardlooking statements include, but are not limited to, statements relating to the potential safety and efficacy of our product candidates, the timing of our planned pivotal trials, expected market sizes for our product candidates, the ability of our partnerships to accelerate clinical development, and our estimated future financial performance and financial position. These statements are based on various assumptions, whether or not identified in this document, and on the current expectations of the Company's management and are not predictions of actual performance. These forward-looking statements are provided for illustrative purposes only and are not intended to serve as and must not be relied on as a guarantee, an assurance, a prediction, or a definitive

2 | Corporate Presentation Q2 2023

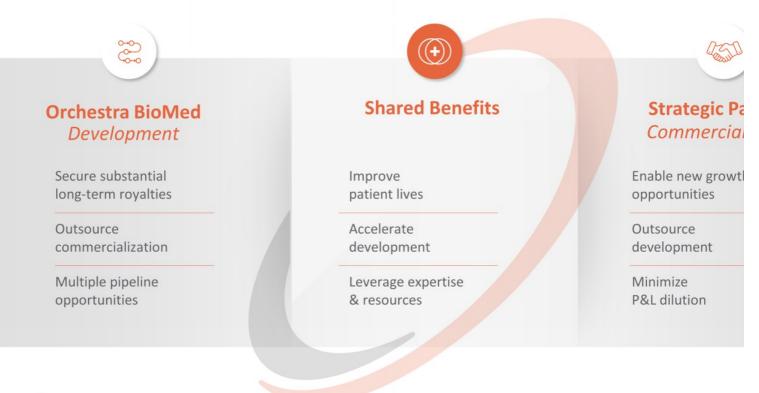
statement of fact or probability. Actual events and circums impossible to predict and may differ from assumptions. Ma circumstances are beyond the control of the Company. statements are subject to a number of risks and uncertaintie domestic and foreign business, market, financial, political, and to realize the anticipated benefits of the business combin regulatory approval of the Company's product candidates; t Company's ability to achieve expected regulatory and business of competitive products and product candidates; and the risk f the heading "Item 1A. Risk Factors" in the Company's quarterl filed with the U.S. Securities and Exchange Commission on May any risk factors disclosed under the heading "Item 1A. Risk Fac subsequently filed quarterly reports on Form 10-Q.

The Company operates in a very competitive and rapidly chan, risks emerge from time to time. Given these risks and unce cautions against placing undue reliance on these forward-lool only speak as of the date of this press release. The Compa undertakes no obligation to update any of the forward-loo herein, except as required by law.

Orchestra BioMed Executive Summary



Orchestra BioMed's Partnership-Enabled Model Benef



Strong Collaborations Position Us for Long-term Succes



5 | Corporate Presentation Q2 2023

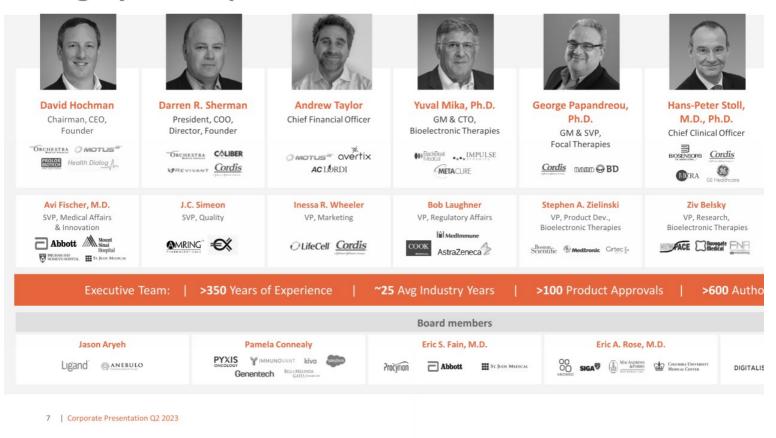
*Total addressable market in 2025 based on company estimates; ¹ Amount is based on higher of (1) a fixed dollar amount per device (amount varies materially on a country-bycounty basis) or (2) a percentage of sales. ² Based on Terumo's consolidated financial results for the fiscal year ended March 31, 2022

Advancing High-Impact Pipeline

Product Platforms	Target Indications	Preclinical	Clinical Feasibility	Clinical Pivotal	Partne
BackBeat Cardiac Neuromodulation Therapy (CNT [™])	Hypertension (HTN) (pacing patients; HTN+P)				Medtror
	High-Risk HTN (non-pacing patients)				Medtror ROFN
CNT - HF	Heart Failure				
Virtue®					
Virtue®	Coronary In-Stent Restenosis (ISR)	FDA Breakthrough ³			TERUN
Virtue® Sirolimus AngioInfusion™ Balloon (SAB)		FDA Breakthrough ³ FDA Breakthrough ⁴			TERUN
Sirolimus	Restenosis (ISR)				

¹⁹In to leverage existing coronary ISR data to support potential Pivotal Study, although there have only been limited discussions with the FDA or a comparable foreign regulator in this regard. "Will seek to leverage data from HTM-P pipot and potential to support clinical and regulatory development for HgM-P discussions with the FDA or a comparable foreign regulator in this regard. "Will seek to leverage data from HTM-P pipot and potential potentians to be transport both target populations, are expected to be similar, the type of hyperbension read tead which is predominant in the HTM-P expolution, and other co-morbidilies are also expected to be similar, the type of hyperbension for the balloon dilatation of the stence is population, and expected to be similar and the coronary artery (In-sten restmosis (ISR)) that is 2.25 to 4.0 mon (so 1.5 mm length) of a steneted coronary artery (In-sten restmosis (ISR)) that is 2.25 to 4.0 mon (so 1.5 mm length) of a stenete coronary artery (In-stener cores) artering and the coronary artery (In-stener cores) artering (In-stener cores) are assed on organic interactions with US FDA regarding (In-stener (IN-STEN cores) are assed on core cores) artering (In-stener cores) are assed on core cores) artering (In-stener cores) are assed on core cores) artering (In-stener cores) are assed on core core asset (In-stener cores) are assed on core core asset (In-stener cores) are

Highly Accomplished Executive Team & Board



BackBeat Cardiac Neuromodulation Therapy[™] (CNT [™])



BackBeat CNT™ Overview

Collaboratio

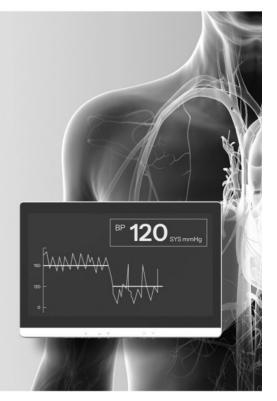
Unmet Need

- Hypertension is the leading global risk factor for death and #1 comorbidity in pacemaker population, affecting over 70% of patients¹
- Older population at **increased risk for major events** & challenges with drug compliance
- Additional opportunity to treat high-risk patients not indicated for a pacemaker

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Innovation

- Bioelectronic therapy designed to substantially & persistently lower blood pressure
- Compatible with standard pacemaker devices & leverages existing treatment paradigm
- Compelling clinical data from double-blind randomized study: significant 8.1 mmHg net reduction in 24-Hr aSBP at 6 months & 17.5 mmHg reduction in oSBP at 2 years^{2,3}



9 | Corporate Presentation Q2 2023

¹Company estimates based on published sources, including National Inpatient Survey (NIS) and National Health and Nutrition Examination Survey (NHANES); ²Kalaras et al. Journal of the American Heart Association. ahajournals.org/doi/10.1161/JAHA.120.020492; ³Burkhoff. MODERATO II Study 2-Year Results TCT 2021;. Definitions: Ambulatory Systolic Blood Pressure (aSBP) and Office Systolic Blood Pressure (oSBP)

Large Global Opportunity for Treating Hypertension in Target Populations



10 | Corporate Presentation Q2 2023

*Total addressable market in 2025 based on company estimates; 1Company estimates based on published sources, including National Inpatient Survey (NIS) and National Health and Nutrition Examination Survey (NHANES); 2Known and well-characterized population, multiple references available; Definition: Hypertension (HTN)

BackBeat CNT™

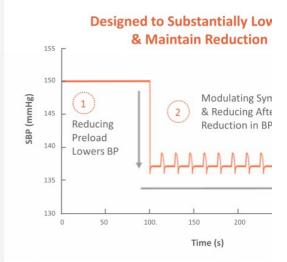
Designed to Substantially and Persistently Lower Blood Pressure

Bioelectronic therapy designed to leverage standard dual-chamber pacemaker

- o Same implant procedure and lead positions
- o Large trained physician pool that already implant pacemakers
- o Same target patient population that already need pacemakers
- Leverageable existing reimbursement with robust payment opportunity for novel devices with novel capabilities

Mechanism of action

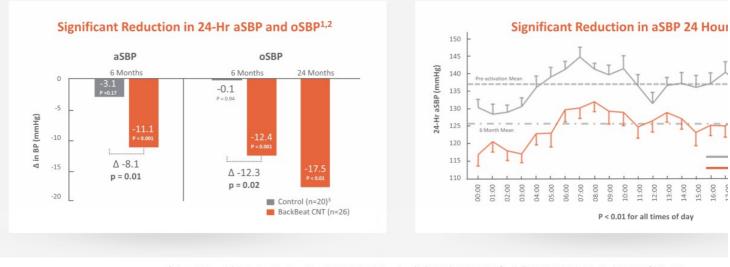
- Designed to substantially reduce blood pressure by reducing preload through programmed pacing with short AV delays
- Designed to maintain reduction by modulating sympathetic tone and reducing afterload through programmed variable pressure patterns



MODERATO II Double-Blind, Randomized Results

BackBeat CNT[™] showed encouraging results in MODERATO II, a prospective, multi-center, randomized, (BackBeat CNT + Medical Therapy vs. Continued Medical Therapy), double-blind, pilot study of pacemaker patients with persistent hypertension

-11.1 mmHg in 24-Hour aSBP at 6 months -17.5 mmHg in oSBP at 2 years 0% MACE vs. 9.5% in control group at 6 months



12 | Corporate Presentation Q2 2023

¹kalaras et al. Journal of the American Heart Association. 2021;10:e020492 ahajournals.org/doi/10.1161/JAHA.120.020492; ³Burkhoff MODERATO II Study 2-Year Results TCT 2021; ³24-Hr aSBP Control (n=19),1 control patient could not be measured despite repeat measurement (patient had extremely high blood pressure); Definitions: Major Adverse Cardiac Events (MACE) included death, heart failure, clinically significant arrhythmias (i.e., persistent or increased atrial fibriliation, serious ventricular arrhythmias), myocardial infarction, stroke and renal failure in treatment group calculated per patient, Office Systolic Blood Pressure (oSBP), Ambulatory Systolic Blood Pressure (aSBP)

BackBeat CNT[™] Pivotal Trial Design

Current anticipated trial design:

Prospective, multi-center, double-blind study investigating the efficacy of BackBeat CNT[™] in patients with uncontrolled hypertensi (HTN) despite the use of antihypertensive medications, who are indicated for a dual-chamber pacemaker

Inclusion and exclusion criteria for enrollment in the BackBeat CNT Pivotal Study will be similar to the criteria used in the MODERATO II study

Patients will be randomized 1:1 in a double-blinded manner to either active treatment with BackBeat CNT with continued antihyp medications **or** standard pacing only with continued antihypertensive medications

Anticipated primary efficacy and safety endpoints:

- Efficacy endpoint: Superiority of treatment as compared to control based on mean change in 24-hour aSBP at 3 months post randomization
- Safety endpoint: Safety assessment will include evaluation of differences in composite cardiovascular adverse events (CCAE) between groups at 12 months

Enroll patients across ~80 study sites planned for United States, Europe and, potentially, Japan

Virtue[®] Sirolimus AngioInfusion[™] Balloon (SAB)



Virtue[®] SAB Overview

Collaboration wi

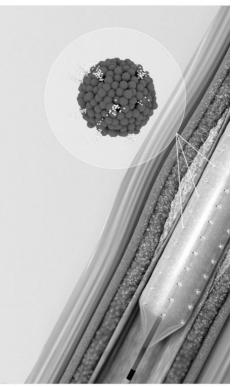
(23)

Unmet Need

- Artery disease is the leading cause of death in the U.S. and worldwide
- Global paradigm shift toward drug-eluting balloons away from stents for the treatment of coronary indications
- Current treatment options are suboptimal and are associated with longterm risks and complications

Innovation

- **Highly-differentiated, non-coated drug/device combination** product candidate designed to reduce long-term complications by enabling angioplasty with protected delivery of extended release sirolimus
- Compelling clinical results in multi-center coronary ISR clinical trial with 3-year follow-up¹
- FDA Breakthrough Device Designation received for indications in coronary ISR², coronary SV³ and BTK⁴



15 | Corporate Presentation Q2 2023

¹von Birgelen et al. JACC Vol. 59, No. 15, 2012 April 10, 2012:1350–61; Virtue SAB has received Breakthrough Device Designation for: ²The balloon dilatation of the stenotic portion (up to 26 mm length) of a ste coronary artery (In-stent restenosis (ISR)) that is 2.25 to 4.0 mm in diameter, for the purpose of improving lumen diameter; ³The balloon dilation of the de novo stenotic portion (up to 26 mm length) of native coronary artery of 2.0 mm to 2.5 mm in diameter (small coronary arteries), for the purpose of improving lumen diameter; ⁴The balloon dilation of the stenotic portion (up to 26 mm length) of an infrapopliteal artery (P-3 segment or distal, below the knee, with reference vessel diameter (RVO) 2.25 - 4.0 mm), for the purpose of improving lumen diameter.

Large Opportunity for Novel AngioInfusion Balloon



Virtue[®] SAB

Designed to Enable Angioplasty with Protected Sirolimus Delivery while Leaving No Metal Behinc

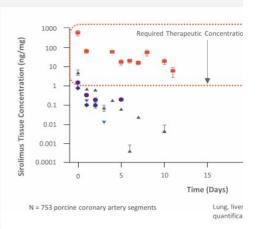
AngioInfusion[™] Balloon

designed to enable angioplasty with protected drug delivery to dilate vessel, to consistently deliver intended dose and to leave no metal behind

SirolimusEFR[™] Formulation

provided extended focal release of the rapeut through critical healing period (\approx 30 days)¹





17 | Corporate Presentation Q2 2023

¹Granada et al. EuroIntervention 2016;12:740-747

Compelling SABRE Trial Results in Coronary ISR Patient

Virtue® SAB preliminarily demonstrated encouraging safety and efficacy results in patients with coronary in-stent restenosis (ISR) in prospective, multi-center SABRE Trial¹

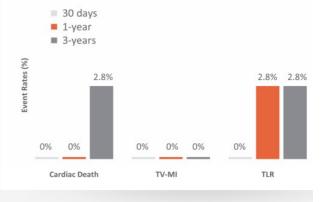
0.12mm LLL at 6-months 2.8%0%Target LesionNeFailure at 1 year1 t

Preliminary Efficacy Results Showed Low 0.12mm Late Loss

	Per Protocol ⁴
n	36
Reference Vessel Dianeter (RVD) mm ¹	2.52 ± 0.32
Minimum Lumen Diameter (MLD) mm	1.96 ± 0.32
% Diameter Stenosis	22.3 ± 9.4
Change in % Diameter Stenosis	5.2 ± 11.4
Late Lumen Loss (LLL) mm ²	0.12 ± 0.33
Binary Restenosis ³	2.8%

¹RVD reported using Internormal values; ²Trial primary performance endpoint; ³Trial secondary performance endpoint (binary restenosis = >50% lumen diameter stenosis). ⁴Data is based on per protocol population criteria revised to be consistent with proposed Virtue ISR-US pivotal study population.



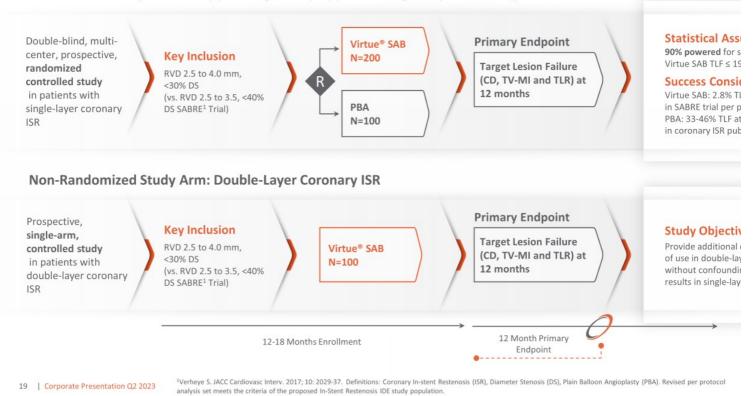


18 | Corporate Presentation Q2 2023

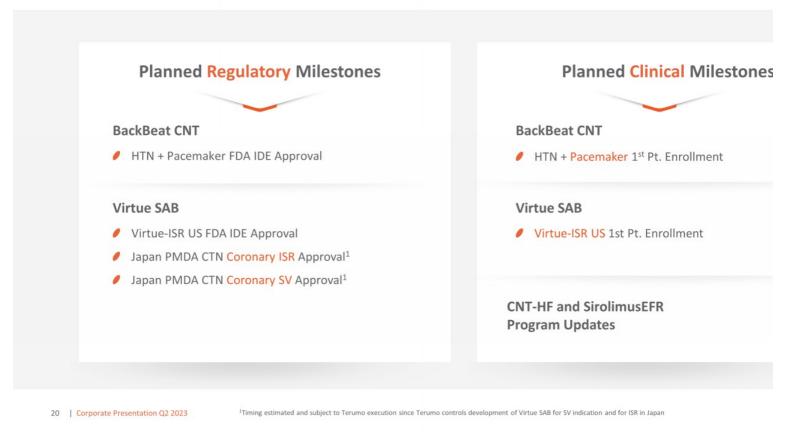
¹Verheye et al. JACC Cardiovasc Interv 2017 Oct 23;10(20):2029-2037. DOI: 10.1016/j.jcin.2017.06.021. ²Granada 3-Year Clinical Results TCT 2018. 3-Year SABRE Trial Clinical Report on file. *Definitions*: Target lesion failure (TLF), late lumen loss (LLL), target lesion revascularization (TLR) and Myocardial Infarction (MI).

Virtue[®] SAB Coronary ISR US Pivotal Trial

Randomized Study Arm to Support Regulatory Approval: Single-Layer Coronary ISR



2023 - Anticipated Milestones



Bringing Medical Innovations to Life Through Partnerships



Partnership-Enabled Business Model & Accomplished Leadership Team

Designed to accelerate innovation to patients, enable pipeline expansion and drive strong partner and shareholder value

Highly experienced team with proven track record of innovation and execution Two Programs Targeting Large Markets Supported by Promising Trial Data Entering Pivotal Trials

Strong & Com Strateg Investc

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BackBeat CNT™

- >\$10 billion annual market
- Randomized, controlled study shows efficacy potential
- Collaboration with Medtronic

Virtue[®] SAB

- ~\$3 billion annual market
- 3-year pilot study results show potential safety & efficacy
- Partnered with TERUMO