VALUE BASED PAYMENT & IMPLICATIONS FOR HEALTHCARE STAKEHOLDERS:

### A MEDICAL DEVICE PERSPECTIVE.

JORIE SOSKIN GENERAL MANAGER, MEDTRONIC INFECTION CONTROL



# A THANK YOU. A PITCH, & A PROMISE.







How can the world's largest medical device company partner with payers and providers to help lead the transition to value based payments?



Targeting specific medical conditions to manage cost and quality of care

## FOUNDED ON INNOVATION AND COLLABORATION

Innovation and collaboration are central to who we are. Since the late 1940s, we have been working with others to alleviate pain, restore health, and extend life. Today, we are a medical technology leader offering therapies and solutions that enable greater efficiency, access, and value — for healthcare systems, payers, providers, and the people they serve.



#### UNIVERSAL HEALTHCARE NEEDS DRIVE OUR GLOBAL GROWTH STRATEGIES



#### Economic Value



ACCELERATING GROWTH THROUGH VALUE-BASED MODELS

#### **OUR ROLE IN THE SHIFT TO VALUE BASED HEALTHCARE**

#### VALUE DEFINED

The **health outcomes** achieved that matter to patients relative to the **cost** of achieving these outcomes.



#### MED TECH POSITIONED TO HELP DRIVE THE SHIFT TO VALUE-BASED HEALTHCARE

- Long history of collaboration with physicians
- Clinical trial and healthcare economics expertise
- Innovation measured in short timeframes
- Clear outcomes enable VBHC business models
- Technology can help drive inflection points in value creation

THERAPY OPTIMIZERS | EPISODIC BUNDLES | CHRONIC CARE

#### UNDERSTANDING THE PROVIDER TRANISITION FROM FEE-FOR-SERVICE TO VALUE BASED HEALTHCARE





## OUR FRAMEWORK:

#### THERAPY OPTIMIZATION

PRODUCTS OR TECHNOLOGIES THAT BY DESIGN IMPACT OUTCOMES AND COST

#### EPISODIC CARE BUNDLES

ROUTINE TREATMENT DELIVERED TYPICALLY INCLUDES OUR PRODUCT

#### CHRONIC CARE MANAGEMENT

IMPACTING CARE OVER A MORE SUSTAINED PERIOD OF TIME





## OUR APPROACH:

### TRANSFORMATIVE INNOVATION

WITH OUTCOMES THAT MATTER TO PATIENTS

#### DEFINED COHORTS AND EVIDENCE

WITH MEASUREABLE CLINICAL AND ECONOMIC IMPACT

#### CHRONIC CARE MANAGEMENT

WHERE MEDTRONIC SHARES DIRECT ACCOUNTABILITY FOR HEALTHCARE COSTS AND PATIENT OUTCOMES



## WE ARE RESHAPING **IEDTRONIC** TO DRIVE MORE VALUE INTO HEALTHCARE

"We believe that our technologies, the data and insights they create, and our expertise can be combined in partnership with hospitals, payers, and governments to help create aligned, value-based healthcare models that can deliver better patient outcomes — while maintaining or reducing costs."

#### — OMAR ISHRAK CEO, MEDTRONIC



We recognize that financial risk is shifting to providers based on clinical outcomes.



We believe our products provide unique benefits, which improve outcomes and reduce costs.



We stand behind our products and evidence in partnership with our customers.



#### **CARDIAC DEVICE INFECTION: A CASE STUDY IN THERAPY OPTIMIZATION** THE TYRX<sup>™</sup> ABSORBABLE ANTIBACTERIAL ENVELOPE

THE **PROBLEM**. Infections occur in ~1-4% of all Cardiac implantable Electronic Device (CIED) implants\*

THE **IMPACT.**  **50%** mortality at 3 years<sup>1</sup> \$57,322 average longitudinal cost, and \$10,000 average provider

margin loss per CIED infection<sup>2</sup>

THE SOLUTION.

The TYRX Envelope is intended to stabilize a device implant and may help reduce infection:

## 70-100% reduction in High-Risk Patients<sup>3-7</sup>

\*Infection rate is an aggregation of data; see Data on File at Medtronic TYRX.

1. Sohail MR et al. PACE. 2015;38(2):231-239. 2. Centers for Medicare & Medicaid Services, U.S. Department of Health and Human Services Inpatient Prospective Payment System (IPPS) Final Rule FY13. 3. Bloom HL et al. Pacing Clin Electrophysiol. 2011;34(2):133-142. 4. Mittal S et al. Heart Rhythm. 2014;11(4):595-601. 5. Kolek MJ et al. J Cardio Electrophysiol. 2015;26(10):1111-1116. 6. Shariff N et al. J Cardio Electrophysiol. 2015;26(10):783-789. 7. Henrikson CA, Citadel and Centurion Study Results: Use of Antibacterial Envelope is Associated with Low 12-Month CIED Infection Rates. Oral presentation at European Heart Rhythm Association (EHRA) EUROPACECARDIOSTIM 2015.





#### THE TYRX<sup>™</sup> RISK·SHARE PROGRAM THERAPY OPTIMIZATION U.S. PROVIDER PROGRAM

1	Participating Facility	Contracted facility <b>where patient is admitted</b> for C
2	Qualifying Infection	Patient with a <b>Medtronic device + TYRX Envelope</b> admitte within 6-months of implant during contra
3	Risk-Share Rebate Credit (i.e. amount per Qualifying Infection)	<b>\$10,000</b> Rebate Credit per Qualifying Infection (i.e I
4	Risk-Share Rebate Credit Cap (i.e. limit on total value of credits)	<b>\$50,000 cap</b> over 12-month Term
5	Medtronic Annual Performance Target*	<b>Performance Target*</b> must be achieved during

\*Medtronic Annual Performance Target does not represent any contractual commitment or obligation. Sites participating in the WRAP-IT Study are not eligible to begin participating in The NEW TYRX<sup>M</sup> Risk-Share Program until completion of enrollment or study closure. Program is only available to eligible accounts as determined by Medtronic.

#### **Qualifying Infection**

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MDT device + TYRX)

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#### 12-month Term

#### THE TYRX<sup>™</sup> RISK·SHARE PROGRAM ESTIMATED CLINICAL AND ECONOMIC IMPACT\*

<sup>Over</sup> 18,000	Nearly 600	Estimated \$35M	More than $30\%$
Potential eligible patient participating in the program	Potential infections prevented <sup>1,2</sup>	Potential infection related costs avoided <sup>3</sup>	of Medtro covered u Share agre

1. Henrikson et al. JACC EP. Online publication, May 2017

2. Mittal S et al. Heart Rhythm. 2014;11(4):595-601

3. Eby EL, et al. Analysis of Cardiac Implantable Electronic Device Infection Costs at One Year in a Large United States Health Care Organization. Poster presented at IDWeek 2017, San Diego, CA October 4-8.

\* Note: TYRX can be freely used on all Cardiac Implantable Electronic Devices. The TYRX Risk-Share program may represent one of several potential factors contributing to account performance. Medtronic CRHF (including Infection Control) includes products that are FDA-approved or cleared and available for sale in the U.S. provided, excluding all Medtronic AF Solutions, Diagnostics & Monitoring, Peripheral Drug Coated Balloons ("DCB"), and Catheter Based Technology ("CBT") products.

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#### ronic US CIED revenue under a TYRX™ Risk greement



## OUR APPROACH:

### TRANSFORMATIVE INNOVATION

#### WITH OUTCOMES THAT MATTER TO PATIENTS

#### The TYRX<sup>™</sup> Absorbable Antibacterial Envelope

DEFINED COHORTS AND EVIDENCE

WITH MEASUREABLE CLINICAL AND ECONOMIC IMPACT

Patients at high-risk of CIED Infection within 6-months of implant

#### CHRONIC CARE MANAGEMENT

WHERE MEDTRONIC SHARES DIRECT ACCOUNTABILITY FOR HEALTHCARE COSTS AND PATIENT OUTCOMES

The TYRX<sup>™</sup> Risk·Share Program



#### **ACTIVE MEDTRONIC VALUE-BASED HEALTH CARE PROGRAMS** NEARLY 1,700 PROVIDERS PARTICIPATING IN MEDTRONIC VBHC PROGRAMS

#### THERAPY OPTIMIZATION PROGRAMS

CVG				RTG	MITG		
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<b>TYRX</b> for CRM	Smart Shock ICD	Adaptive CRT	Cryo Balloon	DCB	AAA Stent Graft	<b>TYRX</b> for DBS, SCS & Pelvic Health	Respirato Comprom
Protection against CIED-related infection w/in 6 mos of CIED implant	Protection against health care utilization related to non-VT/VF shock w/in 2 yrs of device implant	Coverage for HF hospitalization followed by 30-day readmission w/in 12 mos of CRT implant	Protection against AF- related hospitalizations w/in 6 mos of an index PVI ablation for AF	Protection against reintervention on target lesion w/in 1 yr of index procedure	Protection against reintervention w/in 4 yrs of index procedure	Protection against device implant related infection w/in 6 mos of device implant	Reduction of 'Code use of Capnogr monitoring





#### WHILE THESE PROGRAMS PROVIDE A STARTING POINT, THE REAL OPPORTUNITY TO CREATE CHANGE LIES IN ALIGNING HEALTH PLAN AND PROVIDER INCENTIVES



Greenspon AJ, et al. Treatment Patterns and Resource Utilization among Medicare Beneficiaries with Cardiac Implantable Electronic Device Infection. Pacing and Clinical Electrophysiology. 2018. DOI: 10.1111/pace.13300

- Medicare Provider Analysis and Review (MEDPAR) File, FY 2012, on file with Medtronic, plc.
- Sohail MR, et al. The Incidence, Treatment Intensity and Incremental Annual Expenditures for Patients Experiencing a Cardiac Implantable Electronic Device Infection: Evidence from a Large US Payer Database One-Year Post Implantation. http://dx.doi.org/10.1161/CIRCEP.116.003929. Circulation: Arrhythmia and Electrophysiology. 2016;9:e003929. Originally published August 9, 2016
- 4. 2014-15 Medicare 100% Standard Analytic File (SAF), data of file with Medtronic, plc

- Sohail et al. Mortality and Cost Associated With Cardiovascular Implantable Electronic Device Infections. Arch Intern Med. 2011;171(20):1821-1828
- 2011-15 large US healthcare claims analysis, data on file with Medtronic, plc.
- 2012 Premier Healthcare Database. Data on file with Medtronic plc.
- Lopatto, et al. Antibacterial Envelope is Associated with Medical Cost Savings in Patients at High Risk for Cardiovascular Implantable Electronic Device Infection. Poster presented at ACC 2017 Scientific Sessions, Data on file with Medtronic pl

#### **Average Hospital Costs** \$65,914

#### **Average Health Plan Costs** \$53.951

Shariff et al. Health and Economic Outcomes Associated with Use of an Antimicrobial Envelope as a Standard of Care for Cardiac Implantable Electronic Device Implantation



### Supplier and Provider

### Payer and Provider



"The question is, which organizations will lead the way and how quickly can others follow? The challenge... should not be underestimated, given the entrenched interests and practices of many decades."

Porter M, Lee T. The Strategy that Will Fix Health Care. Harvard Business Review. October 2013.



THANK YOU FOR ENGAGING US IN THE CONVERSATION TO DELIVER MORE VALUE, TOGETHER.