



UNIVERSITY OF OTTAWA
HEART INSTITUTE
INSTITUT DE CARDIOLOGIE
DE L'UNIVERSITÉ D'OTTAWA

HEARTWISE WEBINAR SERIES

What's New in the Care and Management of Pacemakers

Marie-Josée Laverdière

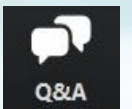
Patient with Lived Experience

Dr. Calum Redpath

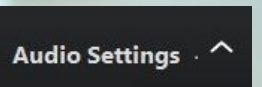
MD, PhD, Director, Pacemaker Clinic
University of Ottawa Heart Institute

WELCOME HOUSEKEEPING

To ask questions through session
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Recent developments in pacemaker therapy

1. Remote management / Monitoring
2. Miniaturization / Longevity
3. Deactivation / Increased autonomy
4. MRI Imaging
5. Activity post implant

1. Remote management / Monitoring

Health Quality Ontario

Let's make our health system healthier

ONTARIO HEALTH TECHNOLOGY ASSESSMENT SERIES

Remote Monitoring of Implantable Cardioverter-Defibrillators,
Cardiac Resynchronization Therapy and Permanent
Pacemakers: A Health Technology Assessment

Canadian Journal of Cardiology 29 (2013) 644–651

Society Position Statement

Canadian Cardiovascular Society/Canadian Heart Rhythm Society Joint Position Statement on the Use of Remote Monitoring for Cardiovascular Implantable Electronic Device Follow-up

Primary Writing Panel: Raymond Yee, MD, (Chair),^a Atul Verma, MD,^b Marianne Beardsall, RN,^b
Jennifer Fraser, RN,^c Francois Philippon, MD,^d and Derek V. Exner, MD^e

2. Miniaturization / Longevity



	Usable battery energy	Background power	Longevity
Platinum 4LV SonR	13843 J (\approx 1.33 A-h)	799 J/yr (25.3 μ W)	13.1
Resonate X4	13619 J (\approx 1.30 A-h)	918 J/yr (29.1 μ W)	11.6
Quadra Assura MP	11774 J (\approx 1.13 A-h)	1059 J/yr (33.6 μ W)	8.4
Intica 7 HF-T (QP)	9471 J (\approx 0.907 A-h)	940 J/yr (29.8 μ W)	7.8
Viva Quad XT	6932 J (\approx 0.664 A-h)	696 J/yr (22.1 μ W)	7

3. CIED deactivation & Shared decision making

Circulation: Arrhythmia and Electrophysiology

REVIEW

Shared Decision Making in Cardiac Electrophysiology Procedures and Arrhythmia Management

Mina K. Chung¹, MD; Angela Fagerlin², PhD; Paul J. Wang³, MD; Tinuola B. Ajayi⁴, MBBS, MPH; Larry A. Allen⁵, MD, MHS; Tina Baykaner⁶, MD, MPH; Emelia J. Benjamin⁷, MD, ScM; Megan Branda⁸, MS; Kerri L. Cavanaugh⁹, MD, MHS; Lin Y. Chen¹⁰, MD, MS; George H. Crossley, MD; Rebecca K. Delaney¹¹, PhD; Lee L. Eckhardt¹², MD; Kathleen L. Grady¹³, PhD, RN; Ian G. Hargraves, PhD; Mellanie True Hills¹⁴, BS; Matthew M. Kalscheur¹⁵, MD; Daniel B. Kramer¹⁶, MD, MPH; Marleen Kunneman¹⁷, PhD; Rachel Lampert¹⁸, MD; Aisha T. Langford¹⁹, PhD, MPH; Krystina B. Lewis²⁰, RN, MN, PhD, CCN(C); Ying Lu²¹, PhD; John M. Mandrola²², MD; Kathryn Martinez²³, PhD; Daniel D. Matlock²⁴, MD, MPH; Sarah R. McCarthy²⁵, PhD, MPH, LP; Victor M. Montori²⁶, MD; Peter A. Noseworthy²⁷, MD; Kate M. Orland²⁸, MS, CGC; Elissa Ozanne²⁹, PhD; Rod Passman³⁰, MD; Krishna Pundi³¹, MD; Dan M. Roden³², MD; Elizabeth V. Saarel³³, MD; Monika M. Schmidt³⁴, DNP, AGNP-C, AACC; Samuel F. Sears³⁵, PhD; Dawn Stacey³⁶, RN, PhD; Randall S. Stafford³⁷, MD, PhD; Benjamin A. Steinberg³⁸, MD, MHS; Sojin Youn Wass³⁹, MD; Jennifer M. Wright⁴⁰, MD

4. MRI Imaging

Canadian Journal of Cardiology 37 (2021) 835–847

Society Position Statement

2021 Update on Safety of Magnetic Resonance Imaging: Joint Statement From Canadian Cardiovascular Society/ Canadian Society for Cardiovascular Magnetic Resonance/ Canadian Heart Rhythm Society

Primary Panel: D. Ian Paterson, MD (Co-chair),^a James A. White, MD (Co-chair),^b
Craig R. Butler, MD, MSc,^a Kim A. Connelly, MBBS, PhD,^c Peter G. Guerra, MD,^d
Michael D. Hill, MD,^b Matthew T. James, MD, PhD,^b Anish Kirpalani, MD,^c
Carmen P. Lydell, MD,^b Idan Roifman, MD, MSc,^e Bradley Sarak, (Trainee Representative), MD,^c
Laurence D. Sterns, MD,^f Atul Verma, MD,^g Douglas Wan, MBChB,^e **Secondary Panel:**
Andrew M. Crean, MBChB,^h Lars Grosse-Wortmann, MD,ⁱ Kate Hanneman, MD,^j
Jonathon Leipsic, MD,^k Jaimie Manlucu, MD,^l Elsie T. Nguyen, MD,ⁱ
Roopinder K. Sandhu, MD, MPH,^a Christine Villemaire, MSc,^d Rachel M. Wald, MD,^m and
Jonathan Windram, MBChB^a

5. Recommended activity post pacemaker

TIMELINE	AVOID THESE ACTIVITIES	YOU CAN DO THESE ACTIVITIES
First 24 hours	Avoid moving your shoulder on the side of the insertion.	You can bend your elbow.
First two weeks	Do not lift your affected arm over your head.	After the first 24 hours, you can move your arm freely below your shoulder.
First four weeks	Do not lift anything heavier than 10 lbs. (5 kg). Avoid any kind of sports or other vigorous activities, such as golf, tennis, swimming or sweeping.	After two weeks, you can begin to do most of the regular activities you did before the procedure.
First eight weeks	Avoid any kind of shoveling.	After four weeks, you can begin to do all of the regular activities you did before the procedure.



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QUESTIONS?

All sessions will be recorded and available on our Prevention and Wellness Centre (PWC) website.

PWC.OTTAWAHEART.CA

Please email heartwisewebinar@ottawaheart.ca if you have any questions or ideas for additional topics.

THANK YOU FOR JOINING!