

CURRICULUM VITAE

I. BIOGRAPHICAL DATA

Name: Derek Vincent Exner
Citizenship: Canadian

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Calgary, Alberta, Canada T2N 4Z6

Phone number: (403) 220-3219

Present rank: Full Professor with Tenure
Departments: Cardiac Sciences and Community Health Sciences
Faculty: Medicine
Institution: University of Calgary

Other: Associate Dean, Clinical Trials
Department: Cumming School of Medicine
Faculty: Medicine
Institution: University of Calgary

Distinctions: Scholar, Alberta Heritage Foundation for Medical Research
Canada Research Chair in Cardiovascular Clinical Trials (Tier 1)

II. ACADEMIC RECORD

i. Undergraduate

Bachelor of Science 1988 (Medicine) - University of Saskatchewan, Saskatoon

Doctor of Medicine 1990 (*cum laude*) - University of Saskatchewan, Saskatoon

ii. Special Professional

Device Fellowship 2000 – University of Western Ontario

Research Fellowship 1997-2000 - National Institutes of Health, Bethesda

Cardiac Electrophysiology Fellowship 1995-1997 - University of Calgary

Cardiology Residency 1993-1995 - University of Calgary

Internal Medicine Residency 1991-1993 - University of Western Ontario

Comprehensive Medical Internship 1990-1991 - University of Western Ontario

Undergraduate Rotating Internship 1989-1990 - University of Saskatchewan

iii. Graduate and Post-Doctoral

Masters of Public Health 1999 - Johns Hopkins University, Baltimore, USA

iv. Licensure, Certification and Boards

Fellow of the American College of Cardiology (International) – (2010)

Fellow of the Heart Rhythm Society (International) – (2008)

Fellow of the Royal College of Physicians (Canada) - Cardiology (1995)

Fellow of the Royal College of Physicians (Canada) - Internal Medicine (1994)

Licentiate of the Medical Council of Canada (1991)

v. Medical Licenses

Province of Ontario, Internal Medicine / Cardiology

Province of Alberta, Internal Medicine / Cardiology

III. AWARDS AND DISTINCTIONS

Canada Research Chair (Tier 1) in Cardiovascular Clinical Trials (2011)

Teaching Award, Libin Cardiovascular Institute (2005)

Young Investigator Award – Runner Up, Canadian Cardiovascular Society (2003)

Electrophysiology Poster Award – American Heart Association (2002)

Delta Omega Honor Society, Alpha Chapter – Johns Hopkins University (1999)

American College of Cardiology / Pfizer Cardiovascular Research Prize (1996)

American College of Cardiology / Pfizer Western Canadian Research Prize (1995)

University of Western Ontario Core Trainee Research Award (1992)

Canadian Public Health Association Travel Bursary Award (1989)

Dean's Research Scholarship, University of Saskatchewan (1985,1986,1987,1988)

University of Saskatchewan Logan Memorial Scholarship (1987)

University of Regina General Proficiency Scholarship (1985)

University of Regina F.W. Hill Entrance Scholarship (1984)

IV. ACADEMIC APPOINTMENTS

Full Professor with tenure, Departments of Cardiac Sciences & Community Health Sciences, University of Calgary (2010 - present)

Associate Dean, Clinical Trials, Departments of Cardiac Sciences, Medicine & Community Health Sciences, University of Calgary (2014 – 2019)

Associate Professor with tenure, Departments of Cardiac Sciences & Community Health Sciences, University of Calgary (2009 - 2010)

Associate Professor, Departments of Cardiac Sciences & Community Health Sciences, University of Calgary (2004 - 2009)

Assistant Professor, Departments of Medicine & Community Health Sciences, University of Calgary (2000 - 2004)

Visiting Fellow, Clinical Trials Scientific Research Group, National Institutes of Health, Bethesda, Maryland (1997 - 2000)

V. EDUCATIONAL ACTIVITIES

i. Undergraduate

Lecturer, Cardiovascular Course (MDCN 440), Department of Medicine / Cardiac Sciences (2000- present)

Preceptor, Cardiovascular Course (MDCN 440), Department of Medicine / Cardiac Sciences (1996, 1997, 2000-present)

ii. Graduate

Director, Clinical Trials Course (MDSC 659.04), Community Health Sciences (2005-present)

Co-director, Clinical Trials Course (MDSC 659.04), Community Health Sciences (2002-2004)

iii. Post-graduate

Director – Critical Appraisal Course, Dept. of Cardiac Sciences, University of Calgary (2000-2012)

Royal College of Physicians and Surgeons of Canada Adult Cardiology Examination Committee (2011-present)

Preceptor – Cardiovascular Core, Internal Medicine Residents (2001, 2002)

Research Supervisor - George Veenhuizen. MD (2001)

- Ryan Mitchell (2001-2005)

- Michael Slawnych, MD, PhD (2001 - 2009)

- Michael McCready, MD (2002 - 2004)

- Sabrina Sandhu, BSc (2002 - 2004)

- Rik Willems (2003)

- Jeff Clarke (2003 - 2004)

- Bryan Har (2003 - 2005)

- Lisa Semeniuk. PhD (2003 - 2006)
- Mariko Shibata (2003 - 2006)
- Rachel Sondergaard (2004 - 2007)
- Sonar Shah (2004 - 2005)
- Cora Constantinescu (2005)
- Stephen Wilton (2005 - 2011)
- Yoga DaSilva (2006)
- Salma Khaled (2007 - present)
- Martha Decker (2007 - 2009, 2011-2012)
- Adam Bryant (2009 - 2012)
- Michael Lai (2010)
- Noah Switzer (2010, 2011)
- Sofija Rans (2011)
- Sharita Manga (2011 - present)
- Nadia Azam (2011)
- Ankur Goel (2011 - 2012)
- Derek Chew (2011 – present)
- Michelle Mann (2011 – present)
- James DeCesare (2011- present)
- Alicia Chan (2013)
- Haris Vaid (2013 – 2015)
- Erin Karlstedt (2013 – present)
- Mariam Narous (2014 – present)

VI. ADMINISTRATIVE RESPONSIBILITIES

i. Departmental Responsibilities

Member, Heart Failure Committee (Department of Cardiac Sciences)

Member, Information Technology Committee (Dept of Cardiac Sciences)

Member, Recruitment Committee (Department of Cardiac Sciences)

Member, Fellowship Committee (Department of Cardiac Sciences)

Member, Trainee Committee (Department of Cardiac Sciences)

Member, Chest Pain Committee (Department of Cardiac Sciences)

ii. Faculty Responsibilities

Associate Dean, Clinical Trials, Cumming School of Medicine, University of

Calgary, 2014 - present

iii. University Responsibilities

Co-Chair, CCHR EDC Committee, University of Calgary (2007-2008)

Member, CCHR Planning Committee, University of Calgary (2007-2008)

iv. Regional Health Authority Responsibilities

Medical Director, Arrhythmia Program – Calgary Health Region (2011-present)

Medical Director, Cardiac Device Program – Calgary Health Region (2008-2011)

Member, TRW Planning Committee - Libin Cardiovascular Institute of Alberta (2007-2009)

Medical Director, Device Implant Group. Calgary Health Region (2005-present)

Head, Cardiovascular Opportunities Network – Epidemiology and Clinical Trials (2002- present)

Medical Director, Heart Failure Device Program, Calgary Health Region (2003 - 2008)

v. Hospital Responsibilities

Medical Director, Arrhythmia Program – Calgary Health Region (2011-present)

Medical Director, Cardiac Device Program – Calgary Health Region (2008-2010)

Medical Director, Lead Extraction Program – Calgary Health Region (2008-present)

VII. PROFESSIONAL ACTIVITIES

i. Membership in Professional and Learned Societies

Fellow of the American Heart Association (FAHA) (2012)

Fellow of the International Society of Holter and Noninvasive Electrocardiology (ISHNE) (2011)

Fellow of the American College of Cardiology (FACC) (2010)

Fellow of the Heart Rhythm Society (FHRS) (2008)

ii. Professional Service

Journal Reviewer

The American Heart Journal (2001-present)
American Journal of Cardiovascular Disease (2001-2002)
American Journal of Physiology (2007, 2008)
Asia-Pacific Journal Of Cardiology (2009 – present)
Canadian Journal of Cardiology (1998- present)
Circulation (2002 -present)
Europace (2008 – present)
European Heart Journal (2007 - present)
European Journal of Cardiology (2008 – present)
Heart (2007 - present)
Journal of Applied Physiology (2007 - present)
Journal of the American Medical Association (JAMA) (2005-present)
Journal of the American College of Cardiology (JACC) (2004-present)
Journal of Interventional Cardiac Electrophysiology (JICE) (2001-present)
Journal of Electrocardiography (2008 – present)
Lancet (2002)
Pacing and Clinical Electrophysiology (PACE) (2005-2008)
Quality of Life Research (2002)

Peer Reviewer

Member, CIHR RCT Committee (2005- present)
Member, Canadian Institutes for Health Research (CIHR) Cardiovascular B
Committee (2004-2006)
Scientific Officer, Scientific Review Committee, Heart & Stroke Foundation
(HSF) of Canada (2004 - 2006)
Member, HSF of Alberta, Northwest Territories & Nunavut Peer-reviewed
Grants Committee (2004 - present)
External Reviewer, HSF Canada (2001, 2002, 2003, 2006, 2007)

External Reviewer, CIHR (2000, 2001, 2002)

Internal Reviewer, Scientific Review Committee, HSFC (1998-2000)

Editorial Board

Journal of Interventional Cardiac Electrophysiology (2005-present)

Canadian Journal of Cardiology (2009-2012)

National and International Committees

Chair / Principal Investigator (International Trials)

Chair and World-wide Principal Investigator. Leadless II IDE Study (2014-present)

Chair and World-wide Principal Investigator. Risk Estimation Following Infarction Noninvasive Evaluation – ICD efficacy (REFINE ICD) (2010-present)

World-wide Principal Investigator, Model 4396 Left Ventricular Lead Study (2008-2011).

World-wide Principal Investigator. Optimal Programming to Improve Mechanical Indices, Symptoms and Exercise in Cardiac Resynchronization Therapy (OPTIMISE CRT) (2007-present)

Steering / Executive Committee Membership (International Trials)

Member, Canadian Stroke Prevention Intervention Network (C-SPIN) (2013 – present)

Member, International Advisory Panel - EU-CERT-ICD FP7 European Risk Stratification Consortium (2012 – present)

Member, RAFT PAF, Executive Committee (2012 – present)

Member, Steering Committee. Attain Performa Study (2013- present)

Member, Steering Committee. Vest prevention of Early Sudden death Trial (VEST) (2007-present)

Member, Steering Committee. Frequent Optimization Study Using the QuickQpt™ Method (FREEDOM) (2007-2011)

Study Committee Membership (International Trials)

Member, AEAC Committee and Publication Committee. Medtronic Model 4396 Left Ventricular Lead Study (Model 4196) (2008-2010)

Member, Endpoints Committee. Fluid Accumulation Status Trial (FAST) (2007-2008)

Member, Publication Committee. Medtronic Model 4195 Left Ventricular Lead Study (Model 4195) (2007-present)

Member, AEAC Committee and Publication Committee. Medtronic Model 4196 Left Ventricular Lead Study (Model 4196) (2007-2010)

Chair, Data and Safety Monitoring Committee. Evaluation of Resynchronization Therapy for Heart Failure (EARTH) (2003-2005)

Member, Events Committee. Home AED Trial (HAT) (2003-2008)

Member, Device Committee. Resynchronization for Heart Failure Therapy (RAFT) (2002-2009)

Member, Executive Committee. Sudden Cardiac Death Heart Failure Trial (SCD-HeFT) (1999-2008)

Other Committee Memberships

Vice-president, International Society of Holter and Noninvasive Electrocardiology (ISHNE) (2013 - present).

Co-chair, Strategic Clinical Network (SCN), Cardiovascular Health and Stroke, Arrhythmia Working Group (2013 - present).

Chair, Canadian Heart Rhythm Society (CHRS) Device Committee (2012 – present).

Member, Canadian Cardiovascular Society Remote Monitoring (2012 – present)

Member, Conducted Energy Weapons Expert Panel (2012 – present)

Member, Research Committee Heart Rhythm Society (2012 – 2014)

Co Chair, Canadian Cardiovascular Society CRT Guidelines Committee (2011) - present

Vice Chair, CME Subcommittee Heart Rhythm Society (2011-2012)

Member, American College of Cardiology, Program Committee (2010 – present)

Member, Education Committee. Heart Rhythm Society (2007-present)

Mentor, Tomorrow's Research Cardiovascular Health Professionals (TORCH) (2002-present)

Member, Emerging Leaders in Cardiac Electrophysiology & Pacing (2001-2007)

Member, American Heart Association, Council on Epidemiology & Prevention (2000-present)

Member, North American Society of Pacing & Electrophysiology (NASPE) / Heart Rhythm Society (1999-present)

Member, American Heart Association, Council on Clinical Cardiology (1998-present)

Member, Heart and Stroke Foundation of Canada (1998-2006)

Member, Alberta Medical Association (1994-present)

Member, Canadian Cardiovascular Society (1993-present)

VIII. RESEARCH SUPPORT

Salary Support

Canadian Research Chair Tier 1, Canadian Institutes of Health Research Award
(2011-2018)

Alberta Innovates – Health Solutions
Scholarship
(2011 – 2013)

Alberta Heritage Foundation for Medical Research (AHFMR)
PI, Scholar Personal Award
(2006 –2011)

Alberta Heritage Foundation for Medical Research (AHFMR)
PI, Investigator Personal Award & renewal
(2000 –2006)

Canadian Institutes of Health Research (CIHR)
PI, Clinician Scientist Phase II & renewal
(2002 –2008)

Canadian Institutes of Health Research (CIHR)
PI, Clinician Scientist Phase I renewal
(1997 –2002)

GRANTS IN AID

Principal Investigator (National / International Peer-reviewed)

Canadian Institutes of Health Research (CIHR) Operating Grant – Industry Partnered Collaborative Research.
Risk Estimation Following Infarction, Non-invasive Evaluation Efficacy of ICD therapy (REFINE ICD)
(2014 – 2019)

Alberta Innovates Health Solutions (AIHS) / Alberta Health Efficient/Effective Delivery and Follow-up of Cardiovascular Implantable Electrical Devices in Alberta: The Performance Evaluation and Rhythm Follow-up Optimization with Remote Monitoring (PERFORM) Collaborative Project.
(2013 – 2016)

Alberta Health Services (Medtronic of Canada) Operating Grant
Risk Estimation Following Infarction, Non-invasive Evaluation Efficacy of
ICD therapy (REFINE ICD)
(2010 – 2018)

Alberta Advanced Education and Technology Grant In Aid
Risk Estimation Following Infarction, Non-invasive Evaluation Efficacy of
ICD therapy (REFINE ICD) feasibility pilot.
(2010 – 2014)

Western Economic Diversification Grant In Aid
Risk Estimation Following Infarction, Non-invasive Evaluation Efficacy of
ICD therapy (REFINE ICD) feasibility pilot.
(2010 – 2013)

Heart & Stroke Foundation of Alberta (HSFA) Grant In Aid
Torsion Optimization to Reduce Symptoms and Improve Outcomes in Non-
Responders (TORSION)
(2008 – 2014)

Canadian Institutes of Health Research (CIHR) RCT Funding.
Investigating Non-response to Cardiac Resynchronization (INCREMENTAL)
(2008 – 2013)

Canadian Institutes of Health Research Clinician Scientist Phase II,
Research Allowance
Investigating Non-response to Cardiac Resynchronization:
Echocardiography & Microvolt alternans Evaluation, Noninvasive Targeting
of Appropriate lead Location (INCREMENTAL) Pilot
(2005 – 2008)

Alberta Heritage Foundation for Medical Research (AHFMR)
Major Equipment Grant – Noninvasive Cardiac Output
Optimizing Resynchronization Therapy
(2004 – 2007)

Canadian Institutes of Health Research (CIHR) Grant In Aid
Risk Estimation Following Infarction, Non-invasive Evaluation (REFINE)
(2003 – 2007)

Canadian Institutes of Health Research (CIHR)
Clinician Scientist Phase II (Research Allowance)
Risk Estimation Following Infarction, Non-invasive Evaluation (REFINE)
(2002 – 2006)

Principal Investigator (Unrestricted Industry Grants In Aid)

Medtronic of Canada
Post-Embolus Rhythm Detection with Implantable ECG Monitoring (PER
DIEM)

(2014-2017)
St. Jude Medical
The LEADLESS II Study – A safety and effectiveness trial for a leadless pacemaker system. (LEADLESS II)
(2014 – 2018)

Dr. James White, University of Calgary
MRI Allocation of Pacing Targets in Cardiac Resynchronization Therapy (MAPIT CRT)
(2013 – present)

Medtronic of Canada
Prospective Assessment with CardioGuide and ECG – Basal Activation Strategy Evaluation (BASE PACE)
(2013-2015)

JC Anderson Legacy Foundation.
Voltage Output from the Left Ventricle To Access Gradient and Estimate Scar (VOLTAGES)
(2012 – present)

HeartForce Medical Inc.
Estimation of Left Ventricular Contractility with Digital Seismocardiography Versus Direct Assessment of dP/dtmax in Patients Undergoing Left-Sided Arrhythmia Procedures (RADI-SCG)
(2012 – 2014)

HeartForce Medical Inc.
Predicting Resynchronization Efficacy via Direct & Indirect Cardiac Techniques (PREDICT)
(2011 – 2014)

Medtronic Inc.
Fidelis Lead Canadian X-Ray Study (FLeCX)
(2010 - 2012)

Heart and Stroke Foundation (HSFA) Grant in Aid
Risk Estimation Following Infarction, Non-invasive Evaluation (REFINE)
(2000 – 2007)

Alberta Heritage Foundation for Medical Research (AHFMR) Start Up Grant
Risk Estimation Following Infarction, Non-invasive Evaluation (REFINE)
(2000 – 2006)

GE Healthcare (formerly General Electric Medical Systems)
RCT Industry Partnership (REFINE ICD)
(2009 – 2015)

Medtronic of Canada Ltd.
Industry Partnership (with CIHR)
Investigating Non-Response to Cardiac Resynchronization: Evaluation of

Methods to Eliminate Non-Response & Target Appropriate Lead Location
(INCREMENTAL)
(2008 – 2012)

GE Healthcare
Equipment Donation
Torsion Optimization to Reduce Symptoms and Improve Outcomes in Non-
Responders (TORSION)
(2007 – 2011)

St. Jude Medical Inc.
Grant In Aid
Optimal Programming to Improve Mechanical Indices, Symptoms, and
Exercise with CRT (OPTIMISE-CRT)
(2007 – 2010)

Roche Limited
Grant in Aid (Donation of Test Kits)
REFINE Blood Markers Substudy
(2005 – 2008)

Medtronic Canada
Independent Investigator Grant
Investigating Non-response to Cardiac Resynchronization:
Echocardiography & Microvolt alternans Evaluation. Noninvasive Targeting
of Appropriate lead Location (INCREMENTAL) Pilot
(2005 – 2006)

Vasogen Inc (Ontario)
Substudy of ACCLAIM Protocol (Holter / ECG Sub-Study)
Measuring the Efficacy a Novel Immune Modulator on Noninvasive Markers
of Serious Arrhythmia Risk and Electrocardiogram Core Laboratory
(2003 – 2007)

GE Medical Systems Information Technologies (GEMS-IT)
Grant In Aid (Equipment Donation)
Measuring the Efficacy a Novel Immune Modulator on Noninvasive Markers
of Serious Arrhythmia Risk
(2003 – 2006)

Cambridge Heart Inc. (Bedford, MA)
Grant In Aid (Equipment & Supply Donation)
Risk Estimation Following Infarction, Non-invasive Evaluation (REFINE)
(2000 – 2007)

GE Medical Systems Information Technologies (GEMS-IT)
Grant In Aid (Equipment Donation)
Risk Estimation Following Infarction, Non-invasive Evaluation (REFINE)
(2000 – 2007)

GlaxoSmithKline

Investigator Initiated Grant In Aid
Reducing Amiodarone Toxicity in ICD Patients, the Role of Carvedilol
(RATICAL)
(2000 – 2004)

Co-investigator (National Peer-reviewed)

Canadian Institutes of Health Research (CIHR) RCT Funding
Resynchronization / defibrillation for Ambulatory heart Failure Trial in
patients with Permanent Atrial Fibrillation (RAFT – PermAF)
(2013 - 2018), *PI - A Tang*

Heart & Stroke Foundation Grant In Aid
Vitamin D Supplementation and Cardiac Autonomic Tone in Hemodialysis
Patients: A Blinded, Randomized Controlled Trial
PI – S Ahmed

Heart & Stroke Foundation Grant In Aid
CHRS Cardiac Implantable Electrical Device Surveillance System (CDSS) –
A Pilot Study
(2013-2016) *PI - R Parkash*

Canadian Institutes of Health Research (CIHR) RCT Funding.
Prevention of Device Infection Cluster Crossover Trial (PADIT)
(2012-2015), *PI - A Krahn*

Population Health Research Institute
Clinical Trials
Prevention of Arrhythmia Device Infection Trial (PADIT Pilot): A Simple
Randomized Trial of Conventional vs. Multimodal Prevention of Arrhythmia
Device Infections
(2010 – 2012)

Canadian Foundation for Innovation (CFI)
New Opportunities
Nutrition, Genetics and Human Performance
(2002 – 2007)

Canadian Institutes of Health Research (CIHR)
Grant in Aid
Prediction of Torsade linked to antiarrhythmic therapy commenced in
hospital (the POTLATCH study)
(2002 – 2006)

Canadian Institutes of Health Research (CIHR)
Infrastructure Grant
Firefighters and Their Endothelium (FATE)
(1999 – 2006)

Medical Services Inc. (MSI Foundation)
Grant in Aid

Cardiovascular Genetics (REFINE)
(2002 – 2004)

Canadian Institutes of Health Research (CIHR)
Grant in Aid
Prophylactic amiodarone for the prevention of arrhythmias that begin early
after revascularization (PAPABEAR study)
(1999 – 2002)

Canadian Institutes of Health Research (CIHR)
Grant in Aid
Paroxysmal atrial fibrillation: Role of inflammation and statins
(2005 – 2008)

Principal Site Investigator (National / International Peer-reviewed)

Medtronic Inc.
ATTAIN Performa TM Quadripolar Lead Clinical Study
(2012 - present)

Ottawa Heart Institute / Canadian Institutes of Health Research (CIHR)
Clinical Trial Sponsorship
Canadian Resynchronization / Defibrillation in Advanced Heart Failure
(RAFT)
(2003-2010)

Sanofi-Synthelabo Canada / Hamilton Health Sciences
Clinical Trial Sponsorship
Atrial Fibrillation Clopidogrel Trial with Irbesartan for Prevention of Vascular
Events (ACTIVE)
(2003-2009)

Medtronic Inc.
Clinical Trial Sponsorship
Attain TM Bipolar OTW Model 4195 Left Heart Lead Clinical Study
(2004-2009)

Medtronic Inc.
Clinical Trial Sponsorship
Fluid Accumulation Status Trial (FAST)
(2004-2009)

Medtronic Inc.
Clinical Trial Sponsorship
Fusion Optimization Study (FuseOpt)
(2007-2010)

IX. INVITED ADDRESSES

International Addresses

American College of Cardiology (ACC) Conference

- Panelist: “Joint Symposium of the Heart Rhythm Society and the American College of Cardiology III: 2014 Update on Devices and Lead Management” (2014)
- Panelist: “Joint Symposium of the Heart Rhythm Society and the American College of Cardiology: Optimizing the Management of the Patient with Implantable Devices” (2012)
- “Approach to Stress Testing in Patients with Pacemakers, Defibrillators and Resynchronization Devices” (2012)
- “Comprehensive Management of Ventricular Arrhythmias” (2011)
- “Management of ICD Shocks: Appropriate, Inappropriate and Electrical Storm” (2011)
- “Beyond LV Dysfunction: Other Markers of Sudden Death Risk” (2011)
- “Risk Assessment by Exercise Testing after Myocardial Infarction” (2009)

American Heart Association

- “ECF EF” poster presentation (2013)
- “Impact of Statin Therapy on Dynamic and Static Measures of Autonomic Tone in Patients with Hypertrophic Cardiomyopathy” (2012)
- “ Predicting and Modifying Risk of Cardiac Arrest and Sudden Death” (2012)
- “Meet the Experts – Heart Failure” (2001)

American Society of Echocardiography (ASE)

- 23rd Annual State of the Art / CRT Summit 2010: “What is Dyssynchrony?: Electrical, Mechanical & Electro-Mechanical Coupling” (2010)

Annual Boston Symposium

- 16th Annual Boston Symposium: “Atrial Fibrillation - Mechanisms and New Directions in Therapy” (2011)

BEATA Symposium

- “Management of Syncope in 2014” (2014)
- “ICD Therapy” (2014)
- “Risk Stratification in EF>35” (2014)

Boston Scientific Electrophysiology Summit

- “Case Studies” (2011)
- “Risk Stratification for Patients” (2011)

Cardiostim (European Electrophysiology Society)

- Clinical Case Presentations (2014)
- “Can We Identify Patients with Mild EF Impairment That Would Benefit from ICD Therapy?” (2014)

- “Does Extreme Frontal QRS Axis Deviation Predict a Poorer Outcome with Cardiac Resynchronization Therapy?” (2014)
- “Appropriate vs. Inappropriate ICD Therapy” (2012)
- Chairmen / Poster Workshop: “Cardiac Arrhythmias/Holter” (2012)
- “Subcutaneous ICDS: A Path to a Technological Revolution – Data Based on Clinical Studies” (2012)
- “Risk Stratification in Post-MI PCI-treated Patients” (2012)
- “Revolutionary Outcomes of ICD Therapy (Virtual ICD)” (2010)
- “Risk Stratification in Post-Infarction Patients with EF values > 0.35” (2010)
- “When to study post-infarction patients” (2008)
- “CRT Getting There, Staying There, Performing There – A Novel Enhanced Passive Fixation LV Lead” (2006)

EU-CERT ICD

- “Value of traditional risk stratification methods for prediction of events in ICD” (2013)

European Cardiac Arrhythmia Society (ECAS)

- “Cardiac Resynchronization Therapy: Updates on guidelines and appropriate use” (2014)

European Congress of Cardiology (CHEECA)

- “Risk Stratification early Post-MI” (2006)
- “ICD Therapy to Prevent Sudden Death” (2006)

European Society of Cardiology (ESC Congress)

- “The Science behind REFINE ICD” (2014)
- “Strategies for Screening & Enrollment” (2014)
- “Steps for Success” (2014)
- “Should ejection fraction be routinely re-evaluated after myocardial infarction?” (2012)

Europace

- “Revisiting the Impact of ICD Shocks” (2011)
- “Identifying Non Response in Patients Without Symptoms” (2011)
- “Replacement or Upgrade – When is the risk too high?” (2011)
- “Clinical Workup of ICD Shocks” (2011)
- “Impact of Frequent Device Therapy on Outcome and Quality of Life” (2007)
- “Is Genetic Testing Useful for the Management of Patients?” (2007)

Heart Rhythm Society (formerly North American Society of Pacing & Electrophysiology)

- Poster: "Serial Post-implant Left Ventricular Vector Selection and Device Longevity". (May 2015)
- Chair: Rapid Fire Cases CRT (May 2015)
- Chair: Follow-up CIEDs: A Real job session (May 2015)
- "Managing AF in a CRT Patient" (2014)
- Poster: "Left Ventricular Remodeling and Survival After Resynchronization Therapy: What Better Predicts Outcome – Alterations in Ejection Fraction or End Systolic Volume?" (2014)
- "Choosing the Right Patient for CRT When the Guidelines Don't Fit" (2014)
- Poster: "Accuracy of an Automated Pacing Capture Thresholds Algorithm for Quadripolar Left Ventricular Leads" (2014)
- Poster: "Insights into the Mechanisms and Quantification of Risk After Myocardial Infarction via Novel Mathematical Analysis of Standard Ambulatory ECG" (2014)
- "Challenges In Cardiac Resynchronization Therapy: The Devil is in the Details" (2013)
- "CRT and Atrial Fibrillation" (2013)
- Poster: "How Best to Classify Mild Versus Moderate Heart Failure? Performance of the New York Heart Association Class Versus the Specific Activity Scale in the OPTIMISE CRT Study" (2012)
- "Approaches to Assess and Optimize the Acute and Long Term Response to CRT" (2012)
- "Dyssynchrony: New imaging techniques" (2012)
- Poster: "Cost Comparison In Heart Failure Patients Treated With Cardiac Resynchronization, Pacemaker, Internal Cardiac Defibrillation, And Standard Medical Therapies. What Is A Longer Life Worth?" (2011)
- "Retention of Cardiac Resynchronization Therapy in a Variety of LV Lead Models" (2011)
- "Understanding Who Responds Best to CRT in HF" (2011)
- Debate: "Debating Current Controversies in the Electrical Treatment of Heart Failure. *LV pacing strategies to enhance response in the CRT patient: transvenous v. endocardial v. epicardial*" (2011)
- "Incidence of Phrenic Nerve Stimulation in CRT Patients Across Multiple LV Leads" (2011)
- "Longevity considerations in programming CRT devices: Optimizing device efficiency" (2011)
- Chair: "Biologic Effects of CRT" (2010)
- "Care Models in Managing Heart Failure Patients with Devices: Bringing EP and Heart Function Expertise Together" (2010)

- "Virtual ICD" (2010)
- "How Experts Program and Follow-Up Implantable Devices. How to prevent and treat electrical storms in ICD patients" (2009)
- "Controversies in Cardiac Resynchronization Therapy. Should All Left Ventricular Pacing Leads Be Placed Under Echo Targeted Vein Guidance?" (2009)
- "Subcutaneous ICDs: Where are we going? Patient Selection" (2008)
- "ICD Therapy Should be Based Only on Mortality and Not on Age, Genetics, Disease Process or Other Criteria" – Debate Antagonist (2008)
- "AF Ablation Trials: Do data support practice?" (2007)
- "REFINE" (2007)
- "Electrical Storm" (2007)
- "Outcome in Clinical Trials" (2006)
- "Management of Electrical Storm" (2006)
- "Fast VT" (2005)
- "ICD Therapy: Where We Are? Where Are We Going" (2004)
- "Optimal Risk Stratification" (2003)
- "Quality of Life in Arrhythmia Trials" (2002)
- "Effectiveness of Warfarin Therapy" (2002)
- "Outcomes in Arrhythmia Research" (2001)
- "Statistics in Clinical Trials" (2000)

International Congress on Electrocardiology (ICE)

- "Noninvasive Risk Assessment Using Holter Methods" (2007)

International Society of Electrocardiology (ISCE)

- "Device Therapy" (2007)

International Society of Holter and Noninvasive Electrocardiology (ISHNE)

- 16th Rhythmology Congress: "TWA in REFINE ICD trial during the Session Expanding Horizons of T-wave Alternans. (June 2015)
- Defibrillation Testing: Clinically important or obsolete?.
- 4th Annual ISHNE Lecture: "Noninvasive Sudden Death Risk Prediction" (2010)

Japanese Heart Rhythm Society

- "Sudden Death Risk Assessment Using Holter ECG Methods" (2010)
- "Clinical Usefulness of Combined Risk Assessment Tools: The REFINE Study and Beyond" (2008)
- "Noninvasive Risk Assessment: Beyond Ejection Fraction" (2008)

Medtronic Technical Forum

- "Optimizing Response to CRT" (2006)
- "Risk Stratification Post MI" (2006)

Path to Improved Risk Stratification

- "Impact of ICD Tx in Patients with Better Preserved LV Systolic Function And An Abnormal Ambulatory ECG After Myocardial Infarction" (2011)

Technology Update, Australia

- "Maximizing Benefit with CRT" (2014)
- "Update on Shock Reduction" (2014)
- "CRT – Where are we in 2006?" (2006)
- "Optimizing response with CRT" (2006)
- "Defining an optimal LV pacing site" (2006)

Update in Holter Assessment

- "Prognostic Value of ECG Repolarization after Myocardial Infarction" (2009).

Venice Arrhythmias

- "Every cardiac electronic implant should provide remote monitoring" (2009).
- "New indications for ICD therapy: risk stratification (REFINE ICD)" (2009).

World Congress on Cardiac Pacing and Electrophysiology

- "Risk Stratification" (2007)
- "Update on Repolarization Alternans Assessment" (2007)
- "How and Where to Implant an LV Lead" (2007)

National Addresses

Canadian Cardiovascular Congress

- Workshop - "CRT" (2013)
- "Assessing the Risk of Sudden Death After Myocardial Infarction" (2008)
- "Enhancing Response to CRT" Chair (2007)
- "How and Where to Implant an LV Lead" (2007)
- "Randomized Trials of ICD Therapy" (2005)
- "Device Therapy for Heart Failure" (2005)
- "Noninvasive Risk Stratification – State of the Art" Chair (2005)
- "Identifying Responders to Cardiac Resynchronization Therapy" (2004)
- "The best way to achieve left ventricular stimulation is via the coronary sinus (Debate Protagonist)" (2003)
- "Resynchronization Therapy - Who Benefits Most?" (2002)

Annual EP Colloquim

- "Lead Extraction – When, Why and How to do Safely" (2011)

Universities / Hospitals

TriHealth Rounds Cincinnati, Ohio

-“Optimizing Outcome After Myocardial Infraction: The Refine ICD Study” (2015)

Ohio State University Visiting Lecture. Columbus, Ohio

-“Optimizing Outcome After Myocardial Infraction: The Refine ICD Study” (2015)

Cleveland Clinic EP Research Conference, Cleveland, Ohio

-“Optimizing Outcome After Myocardial Infraction: The Refine ICD Study” (2015)

Regina General Hospital Cardiology Grand Rounds

-“Optimizing Outcome After Myocardial Infraction: The Refine ICD Study (2014)

University of British Columbia, Annual Cardiac Sciences Research Day

- “From Inception to Implementation: The Story of REFINE ICD” (2014)

Royal Alexandra Hospital (Edmonton, AB)

-“Sudden Cardiac Death Post-MI with preserved EF” (2013)

Ottawa Heart Institute (Ottawa, ON)

-“Post-MI Sudden Death Risk Management” (2013)

QEII Health Science Centre (Halifax, NS)

-“Assessing Risk of Sudden Death” (2013)

Winter Arrhythmia School (Montreal, QC)

-“Imaging for CRT” (2013)

Heart Clinics Northwest (Spokane, WA)

-“Sudden Death After Myocardial Infarction – Improving Patient Outcomes” (2013)

Mazankowski Alberta Heart Institute (Edmonton, AB)

- “Sudden Death After Myocardial Infarction - Improving Patient Outcomes” (2012)

Royal Jubilee Hospital – Grand Rounds (Victoria, BC)

-“Sudden Death After an MI - Improving Patient Outcomes”. (2012)

Blue Mountain Referral Meeting – Southlake Regional Health Centre (Toronto, ON)

-“ Sudden death risk prediction - REFINE ICD” (2012)

Northwest EP Meeting (Sunriver, Oregon)

-“Cardiac Resynchronization Therapy - Expanding Indications and Optimizing Technique” (2012)

Cardiology Rounds (London, ON)

-“Preventing Sudden Death After Myocardial Infarction – Room to Improve”

Cardiology Rounds (Victoria, BC)

- “Virtual ICD” (2011)
University of Calgary (Internal Medicine – Grand Rounds) (2011)
- “CRT and ICD Therapy - Who is a Candidate and What to Expect?”
University of British Columbia (Cardiology Rounds) 2010.
- “Implantable Cardiac Device Therapy in 2010 – Patient Selection and Follow-up”.
University of British Columbia (Cardiology Rounds) 2009.
- “Risk stratification after MI – Identifying patients for ICD therapy”
BC Heart Rhythm Interest Group Meeting 2009.
- “Cardiac Resynchronization Therapy – Past, Present, and Future”.
University of Calgary, Department of Cardiac Sciences (Grand Rounds) 2008
- “Sudden Death Post-MI: Can We Identify Patients at Risk?”
University of Calgary, Rocky View Hospital (Grand Rounds) 2007
- “Who Needs an ICD Post MI?”
University of Calgary, Department of Medicine (Grand Rounds) 2004
- “Device Therapy for Heart Failure Treatment”
McMaster University (Cardiology Grand Rounds) 2009.
- “Non-invasive Risk Assessment After Myocardial Infarction”
- “Linking Physiology with Anatomy: Relationship Between Scar & Electrical Substrate After MI”
University of Western Ontario (Cardiology Grand Rounds) 2008.
- “Sudden Death Post-MI: Can We Identify Patients at Risk?”
Montreal Heart Institute (Cardiology Grand Rounds) 2008
- “Sudden Death Post-MI: Can We Identify Patients at Risk?”
University of Manitoba (Grand Rounds) 2002.
- “Device Therapy for the Prevention of Sudden Death”
University of Saskatchewan (Grand Rounds) 2002.
- “Device Therapy for Heart Failure Treatment”
University of British Columbia (Grand Rounds) 2001.
- “Risk Factors and Therapies for Sudden Death”
University of Saskatchewan 10-year class reunion lecture (2000)
- “Sudden Death – Advances in Diagnosis and Treatment”
University of Western Ontario (Grand Rounds) 2000.
- “Sudden Death Risk Stratification”

Other Continuing Medical Education Teaching

Alberta Cardiovascular Conference

- Panel Discussion – “Arrhythmia Guided Case Discussion” (2014)
- Workshop – “Canadian Cardiovascular Society CRT Case Based” (2014)
- Canadian Cardiovascular Society Heart Failure Guidelines Workshop (case based learning) (2013)
- “Preventing Sudden Death – Current and Future Role of AICDS” (2013)
- Panel Discussion – “Interactive Arrhythmia Case Presentation” (2012)
- “Supraventricular Arrhythmias – Bread And Butter Or Toast And Jam” (2012)
- “Pearls and Pitfalls of Setting Up an AF Clinic” (2011)
- “Rate, Rhythm and Reflection in 2011” (2011)
- “CRT in 2010: Indications and Maximum Benefit” (2010)
- “Atrial Fibrillation in 2010 and Beyond” (2010)
- “Atrial Fibrillation Case Studies” (2010)
- “Resynchronization Therapy – Who’s a Candidate? & What to Expect” (2008)
- “Noninvasive Risk Stratification for Sudden Death – Where Are We in 2008?” (2008)
- “Risk Stratification; What Can be Achieved with a Holter Monitor?” (2007)
- “Who Needs a CRT Device and What to Expect?” (2007)
- “Cardiac Resynchronization Therapy” (2003)

Arrhythmia Update Plus

- Workshop – “A Case-Based Approach to the CRT Guidelines” (2014)

Canadian Electrophysiology Fellows Course

- Faculty, “Practical Approach to CRT Response and Non-Response” (2013)
- Faculty, “Difficult device cases” (2009)
- Faculty, “Difficult device cases” (2008)
- Faculty, “Management of the Patient with Multiple Shocks” (2004)

Canadian Society of Internal Medicine

- “Pacemakers: Terminology, Indications & Peri-operative Management” (2008)
- “Cardiac Pacemakers and ICDs” (2007)
- “Hot Topics in Atrial Fibrillation” (2006)

Cardiovascular Update for the Non-Cardiologist

- “Device Therapy for Patients With Cardiac Disease” (2006)

CRT Implant Summit

- “CRT – Where are we and where are we going?” (2006) (Chair)
- “Coronary sinus anatomy” (2006) (Chair)

- "Transvenous LV lead placement" (2006) (Chair)

ECG Interpretation Course for Family Physicians

- "Premature Beats & Tachycardias" (2007)
- "Heart Block & Pacemakers" (2007)

Emerging Therapies in Heart Failure and Arrhythmias Symposium

- "Who is most likely to benefit from CRT therapy" (2009) Chair
- "Who needs remote monitoring?" (2009) Chair
- "Challenging CRT cases" (2009), Chair
- "Challenging ICD cases" (2008), Chair
- "Challenging CRT cases" (2008), Chair
- "Programming for CRT Non-Responders", (2006) Co-chair
- "CRT-D is optimal (Debate Protagonist)", (2006) Co-chair
- "Identifying Responders to Resynchronization Therapy" (2005), Co-chair
- "Every Patient with an EF < 0.35 Should Receive an ICD (Debate Antagonist)" (2005), Co-chair
- "CRT is best with low EF & wide QRS (Debate Protagonist)" (2004), Co-chair
- "RV pacing is NOT always harmful with LV dysfunction (Debate Protagonist)" (2004), Co-chair
- "How to Manage Less Than Ideal LV Pacing Thresholds" (2003), Co-chair
- "Approach to the CRT Non-responder" (2003), Co-chair
- "Cost-effectiveness of Device Therapy" (2003), Co-chair

EP Provincial Wide Referral Meeting

- "ICD Prescription in the Wild West - Too many or too few?" (2013), Chair
- "What's New in Arrhythmia Device Therapy?" (2011), Chair

Interior Health Cardiology Update

- "Who needs an ICD or CRT Device" (2007)

Mazankowski Symposium

- "Device Therapy After Myocardial Infarction & Patients with Heart Failure" (2008)

Re-Inventing Device Therapy for Cardiac Arrhythmias

- "Optimal RV Lead Placement" (2007)
- "Who is a Candidate for CRT?" (2007)
- "Optimal CRT Programming / Patient Follow-up" (2007)

Second Annual Bridging the Gap in Patient Management Between Medical and Device Technology

- "Advances in CRT" (2006)

Vascular Protection Forum (VPF)

- "Indications of Device Therapy & Heart Failure" (2010)

Western Canadian Arrhythmia Update

- "Selection of CRT Patients" (2009)
- Workshop Leader "Biventricular Pacing: How to Select Patients" (2009)
- "Centres of Excellence – Optimizing Device Therapy" (2004)
- "Endovascular Versus Surgical Approached to CRT" (2004)
- "Cardiac Resynchronization Therapy: 2002 & Beyond" (2002)

Western EP Fellows

- "CRT Implantation Tips and Tricks" (2009)
- "LV Lead Placement & Case Studies" (2007)

X. PUBLICATIONS**Manuscripts In Press / Published (122)**

1. Vivek Y. Reddy, M.D., Derek V. Exner, M.D., M.P.H., Daniel J. Cantillon, M.D., Rahul Doshi, M.D., T. Jared Bunch, M.D., Gery F. Tomassoni, M.D., Paul A. Friedman, M.D., N.A. Mark Estes, III, M.D., John Ip, M.D., Imran Niazi, M.D., Kenneth Plunkitt, M.D., Rajesh Banker, M.D., James Porterfield, M.D., James E. Ip, M.D., and Srinivas R. Dukkipati, M.D. for the LEADLESS II Study Investigators. (2015). Percutaneous Implantation of an Entirely Intracardiac Leadless Pacemaker. *New England Journal of Medicine*. In Press August 30, 2015 DOI: 10.1056/NEJ
2. Perkiömäki J, Exner DV, Piira OP, Kavanagh K, Lepojärvi S, Talajic M, Karvonen J, Philippon F, Junttila J, Coutu B, Huikuri H.(2015). Heart Rate Turbulence and T-Wave Alternans in Patients with Coronary Artery Disease: The Influence of Diabetes. *Ann Noninvasive Electrocardiol*. 2015 Jan 15. doi: 10.1111/ anec.12244. [Epub ahead of print]. 15(1)
3. Miller RJ, Howlett JG, Exner DV, Campbell PM, Grant AD, Wilton SB.(2015). Baseline Functional Class and Therapeutic Efficacy of Common Heart Failure Interventions: A Systematic Review and Metaanalysis. *Can J Cardiol*. 2015 Jun;31(6):792-9.31(6): 792-9.
4. Mann MC, Hemmelgarn BR, Exner DV, Hanley DA, Turin TC, Wheeler DC, Sola DY, Ellis L, Ahmed SB. (2015). Vitamin D Supplementation Is Associated With Stabilization of Cardiac Autonomic Tone in IgA Nephropathy. *Hypertension*. 66(2): e4-e6.
5. Crossley GH, Biffi M, Johnson B, Lin A, Gras D, Hussin A, Cuffio A, Collier JL, El-Chami M, Li S, Holloman K, **Exner DV**. Performance of a novel left ventricular lead with short bipolar spacing for cardiac resynchronization therapy: primary results of the Attain Performa quadripolar left ventricular lead study. *Heart Rhythm*. 2015 Apr;12(4):751-8. doi: 10.1016/j.hrthm.2014.12.019. Epub 2014 Dec 19.
6. Perkiomaki J, **Exner DV**, Piira OP, Kavanagh K, Lepojarvi S, Talajic M, Karvonen J, Philippon F, Junttila J, Coutu B, Huikuri H. Heart rate turbulence and t-wave alternans in

- patients with coronary artery disease: The influence of diabetes. *Ann Noninvasive Electrocardiol.* 2015 Jan 15. doi: 10.1111/anec.12244. [Epub ahead of print]
7. Wong JA, Duff HJ, Yuen T, Kolman L, **Exner DV**, Weeks SG, Gerull B. Phenotypic analysis of arrhythmogenic cardiomyopathy in the hutterite population: role of electrocardiogram in identifying high-risk desmocollin-2 carriers. *J Am Heart Assoc.* 2014 Dec 11;3(6). pii: e001407. doi: 10.1161/JAHA.114.001407.
 8. Parkash R, Tung S, Champagne J, Healey JS, Thibault B, Cameron D, Tang A, Connors S, Beardsall M, Mangat I, Ayala-Paredes F, Toal S, **Exner DV**, Yee R, Krahn AD. Insight into the Mechanism of Failure in the Riata Lead Under Advisory. *Heart Rhythm.* 2014 Dec 5. pii: S1547-5271(14)01409-X. doi: 10.1016/j.hrthm.2014.12.002. [Epub ahead of print]
 9. Van Wagoner DR, Piccini JP, Albert CM, Anderson ME, Benjamin EJ, Brundel B, Califf RM, Calkins H, Chen PS, Chiamvimonvat N, Darbar D, Eckhardt L, Ellinor PT, **Exner DV**, Fogel RI, Gillis AM, Healey J, Hohnloser SH, Kamel H, Lathrop DA, Lip GY, Mehra R, Narayan SM, Olgin J, Packer D, Peters NS, Roden DM, Ross HM, Sheldon R, Wehrens XH. Progress towards the Prevention and Treatment of Atrial Fibrillation: A summary of the Heart Rhythm Society Research Forum on the Treatment and Prevention of Atrial Fibrillation, Washington, D.C., December 9-10, 2013. *Heart Rhythm.* 2014 Nov 18. pii: S1547-5271(14)01290-9. doi: 10.1016/j.hrthm.2014.11.011. [Epub ahead of print].
 10. Verma A, Ha AC, Dennie C, Essebag V, **Exner DV**, Khan N, Lane C, Leipsic J, Philippon F, Sampaio M, Schieda N, Seifer C, Berthiaume A, Campbell D, Chakraborty S. Canadian heart rhythm society and canadian association of radiologists consensus statement on magnetic resonance imaging with cardiac implantable electronic devices. *Can Assoc Radiol J.* 2014 Nov;65(4):290-300. doi: 10.1016/j.carj.2014.08.001. Epub 2014 Oct 24.
 11. Rizkallah J, Rothschild JM, **Exner DV**. Getting by with less - the "frugal tie". *Can J Surg.* 2014 Dec;57(6):412-6.
 12. Essebag V, Joza J, Birnie DH, Sapp JL, Sterns LD, Philippon F, Yee R, Crystal E, Kus T, Rinne C, Healey JS, Sami M, Thibault B, **Exner DV**, Coutu B, Simpson CS, Wulffhart Z, Yetisir E, Wells G, Tang AS. Incidence, Predictors, and Procedural Results of Upgrade to Resynchronization Therapy: The RAFT Upgrade Substudy. *Circ Arrhythm Electrophysiol.* 2014 Nov 23. pii: CIRCEP.114.001997. [Epub ahead of print]
 13. Verma A, Ha AC, Dennie C, Essebag V, **Exner DV**, Khan N, Lane C, Leipsic J, Philippon F, Sampaio M, Schieda N, Seifer C, Berthiaume A, Campbell D, Chakraborty S. Canadian Heart Rhythm Society and Canadian Association of Radiologists consensus statement on magnetic resonance imaging with cardiac implantable electronic devices. *Can J Cardiol.* 2014 Oct;30(10):1131-41. doi: 10.1016/j.cjca.2014.07.010.
 14. Krahn AD, Morissette J, Lahm R, Haddad T, Baxter W, McVenes R, Crystal E, Ayala-Paredes F, Cameron D, Verma A, Simpson CS, **Exner DV**, Birnie DH. Radiographic Predictors of Lead Conductor Fracture, *Circ Arrhythm Electrophysiol.* 2014 Sep 27. pii: CIRCEP.114.001612 (Epub ahead of print)
 15. Pedersen CT, Kay GN, Kalman J, Borggrefe M, Della-Bella P, Dickfeld T, Dorian P, Huikuri H, Kim YH, Knight B, Marchlinski F, Ross D, Sacher F, Sapp J, Shivkumar K, Soejima K, Tada H, Alexander ME, Triedman JK, Yamada T, Kirchhof P, Lip GY, Kuck KH, Mont L, Haines D, Indik J, Dimarco J, **Exner DV**, Iesaka Y, Savelieva I; EP-Europace,UK. EHRA/HRS/APHRS expert consensus on ventricular arrhythmias. *Heart Rhythm.* 2014 Oct;11(10):e166-96. doi: 10.1016/j.hrthm.2014.07.024. Epub 2014 Aug 30.

16. Mann MC, **Exner DV**, Hemmelgarn BR, Hanley DA, Turin TC, MacRae JM, Amned SB. The VITAH Trial Vitamin D Supplementation and Cardiac Autonomic Tone in Hemodialysis: a blinded, randomized controlled Trial, *BMC Nephrol*. 2014 Aug 6; 15:129. doi: 10.1186/1471-2369-15-129.
17. Wilton SB, **Exner DV**, Healey JS, Birnie D, Arnold MO, Sapp JL, Thibault B, Simpson CS, Tung S, Crystal E, Sivakumaran S, Khaykin Y, Yetisir E, Wells G, Tang AS; RAFT Investigators. Left Ventricular Lead Position and Outcomes in the Resynchronization-Defibrillation for Ambulatory Heart Failure Trial (RAFT). *Can J Cardiol*. 2014 Apr;30(4):413-9. doi: 10.1016/j.cjca.2013.10.009. Epub 2013 Oct 18.
18. Mann MC, **Exner DV**, Hemmelgarn BR, Turin TC, Sola DY, Ellis L, Ahmed SB. Vitamin D supplementation is associated with improved modulation of cardiac autonomic tone in healthy humans. *Int J Cardiol*. 2014 Mar 15;172(2):506-8. doi: 10.1016/j.ijcard.2014.01.058. Epub 2014 Jan 23
19. Goldberger JJ, Basu A, Boineau R, Buxton AE, Cain ME, Canty JM Jr, Chen PS, Chugh SS, Costantini O, **Exner DV**, Kadish AH, Lee B, Lloyd-Jones D, Moss AJ, Myerburg RJ, Olgin JE, Passman R, Stevenson WG, Tomaselli GF, Zareba W, Zipes DP, Zoloth L. Risk stratification for sudden cardiac death: a plan for the future. *Int J Cardiol*. 2014 Mar 15;172(2):506-8. doi: 10.1016/j.ijcard.2014.01.058. Epub 2014 Jan 23.
20. Tan VH, Wilton SB, Kuriachan V, Sumner GL, **Exner DV**. Impact of programming strategies aimed at reducing nonessential implantable cardioverter defibrillator therapies on mortality: a systematic review and meta-analysis. *Circ Arrhythm Electrophysiol*. 2014 Feb;7(1):164-70. doi: 10.1161/CIRCEP.113.001217. Epub 2014 Jan 20.
21. Parkash R, Philippon F, Shanks M, Thibault B, Cox J, Low A, Essebag V, Bashir J, Moe G, Birnie DH, Larose E, Yee R, Swiggum E, Kaul P, Redfearn D, Tang AS, **Exner DV**; Canadian Cardiovascular Society. Canadian Cardiovascular Society guidelines on the use of cardiac resynchronization therapy: implementation. *Can J Cardiol*. 2013 Nov;29(11):1346-60. doi: 10.1016/j.cjca.2013.09.009.
22. Bennett MT, Ha AC, **Exner DV**, Tung SK, Parkash R, Connors S, Coutu B, Crystal E, Champagne J, Philippon F, Yee R, Stephenson EA, Nery PB, Essebag V, Sanatani S, Redfearn D, Krahn AD, Healey JS. The Canadian experience with Durata and Riata ST Optim defibrillator leads: a report from the Canadian Heart Rhythm Society Device Committee. *Heart Rhythm*. 2013 Oct;10(10):1478-81. doi: 10.1016/j.hrthm.2013.07.050. Epub 2013 Aug 22.
23. Mann MC, **Exner DV**, Hemmelgarn BR, Sola DY, Turin TC, Ellis L, Ahmed SB. Vitamin D levels are associated with cardiac autonomic activity in healthy humans. *Nutrients*. 2013 Jun 10;5(6):2114-27. doi: 10.3390/nu5062114
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25. Parkash R, Exner D, Champagne J, Mangat I, Thibault B, Healey JS, Tung S, Crystal E, Simpson C, Nery PB, Sterns L, Connors S, Cameron D, Verma A, Beardsall M, Wolfe K, Essebag V, Ayala-Paredes F, Sanatani S, Coutu B, Fraser J, Toal S, Philippon F, Tang AS, Yee R, Krahn A. Failure rate of the Riata lead under advisory: a report from the CHRS Device Committee. *Heart Rhythm*. 2013 May;10(5):692-5. doi: 10.1016/j.hrthm.2013.01.018.

26. **Exner DV**, Birnie DH, Moe G, Thibault B, Philippon F, Healey JS, Tang AS, Larose E, Parkash R. Canadian Cardiovascular Society Guidelines on the use of Cardiac Resynchronization Therapy Evidence and Patient Selection Can J Cardiol. 2013 Feb;29(2):182-95. doi: 10.1016/j.cjca.2012.10.006.PMID:23351926 [PubMed - in process]
27. Mann MC, **Exner DV**, Hemmelgarn BR, Sola DY, Turin TC, Ellis L, Ahmed SB. Vitamin d levels are associated with cardiac autonomic activity in healthy humans. Nutrients. 2013;5(6):2114-27.
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29. Yee R, Verma A, Beardsall M, Fraser J, Philippon F, **Exner DV**. Canadian Cardiovascular Society/Canadian Heart Rhythm Society Joint Position Statement on the Use of Remote Monitoring for Cardiovascular Implantable Electronic Device Follow-up. Can J Cardiol. 2013;29:644-51
30. Bryant AR, Wilton SB, Lai MP, **Exner DV** Association between QRS duration and outcome with cardiac resynchronization therapy: A systematic review and meta-analysis. J Electrocardiol 2013;46:147-55.
31. Connelly SJ, Philippon F, Longtin Y, Casanova A, Birnie DH, **Exner DV**, Dorian P, Parkash R, Ailings M, Krahn AK. Randomized Cluster Cross-over Trials for Reliable, Efficient Comparative Effectiveness Testing: Design of the Prevention of Arrhythmia Device Infection Trial (PADIT). Canadian Journal of Cardiology (*In Press*)
32. Biffi M, **Exner DV**, Crossley GH, Ramza B, Coutu B, Tomassoni G, Kranig W, Li S, Kristiansen N, Voss F. Occurrence of Phrenic Nerve Stimulation in CRT patients; the role of LV lead type and placement site. Europace. 2013 Jan;15(1):77-82
33. Healey JS, Gula LJ, Birnie DH, Sterns L, Connolly SJ, Sapp J, Crystal E, Simpson C, **Exner DV**, et al. A Randomized-Controlled Pilot Study Comparing ICD Implantation with and Without Intraoperative Defibrillation Testing in Patients with Heart Failure and Severe Left Ventricular Dysfunction: A Substudy of the RAFT Trial. J Cardiovasc Electrophysiol. J Cardiovasc Electrophysiol. 2012 Dec;23(12):1313-1316
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Patents (2)

Method and system for detecting T-wave alternans, United States, 8060192, Co-holders): Rowlandson, Gordon Ian; Kaiser, Will, Slawnych, Michael; Xue, Joel Qiuzhen; Exner, Derek

Method for estimating cardiac function from a surface electrocardiogram. Co-holders: Gupta, Sunny, Yazdi, Moshen, Exner, Derek (applied for)

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