# **UW** Medicine

UW SCHOOL OF MEDICINE

6<sup>th</sup> Annual

# LEAD MANAGEMENT UPDATE SYMPOSIUM



# Saturday December 7, 2019

Orin Smith Auditorium UW Medicine, South Lake Union 850 Republican Street | Seattle, WA 98109

Sponsored by UW School of Medicine Department of Medicine, Division of Cardiology Office of Continuing Medical Education

### WHO SHOULD ATTEND

This meeting is intended for Cardiologists, electrophysiologists, cardiothoracic surgeons, advanced practice providers (ARNP's. PA's), nurses, cardiovascular technicians and primary care physicians.

## **COURSE DESCRIPTION**

This course is designed to provide the learner with the most up to date review of cardiac implantable electronic device lead management. Topics covered include indications for lead extraction, clinical decision making in patients with CIED infections or lead malfunction. An in-depth review of indications for lead extraction will be covered, as well as a description of available tools and technology used for lead extraction. Experts in lead management and extraction will discuss cases which illustrate the educational goals. Didactic sessions will be combined with interactive case presentations.

## **COURSE OBJECTIVES**

Upon completion of this activity, attendees should be able to:

- Manage patients who experience CIED complications, including advisory or recall devices and infection.
- Recognize when to refer to a specialist.
- Describe updates in published literature, guidelines and consensus documents.
- Identify methods to prevent complications from CIEDs, to include reviewing the efficacy of lead extraction and appropriate device implantation.

#### Co-sponsored by



#### Endorsed by



Washington

# ACCREDITATION

#### Accreditation with Commendation

The University of Washington School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical

education for physicians.

#### Credit Designation

The University of Washington School of Medicine designates this



live activity for a maximum of 6.5 AMA PRA Category 1 Credits<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

#### COURSE FEES

MD/DO/PhD	\$200.00
Allied Health	\$150.00

Walk-in registrations incur a \$25 administrative fee

The fee for this course includes catering, all instruction materials and transcript of AMA PRA Category 1 Credits<sup>™</sup>. To ensure enrollment, please complete the enclosed registration form and forward it with the appropriate tuition or register online at uwcme.org. Allow up to fifteen working days to receive your email confirmation of enrollment. If you have not received confirmation prior to your departure for the course, please contact the Continuing Medical Education office at 206.543.1050. Continuing Medical Education will not be responsible for expenses incurred by an individual who is not confirmed and for whom space is not available at the course.

# ATTENDANCE POLICY

Course activities are exclusively reserved for course attendees. Badges provided at registration are required for entrance into all functions and will be strictly enforced.

# For course details and registration, visit uwcme.org

UW School of Medicine | Continuing Medical Education

Email: cme@uw.edu | Phone: 206.543.1050

# Course Faculty

## PROGRAM CO-DIRECTORS

#### Ulrika Birgersdotter-Green, MD

Director, Pacemaker and ICD Services University of California San Diego, CA

#### Noel Boyle, MD, PhD, FACC Professor of Medicine University of California Los Angeles, CA

#### Kristen Patton, MD, FACC

Professor of Medicine, Division of Cardiology University of Washington Seattle, WA

Jeanne Poole, MD, FACC Professor of Medicine, Division of Cardiology University of Washington Seattle, WA

# PROGRAM FACULTY

# Jamil Bashir, MD

Clinical Associate Professor University of British Columbia Vancouver, BC

Peter Belott, MD, FACC, FHRS Cardiologist Sharp Grossmont Hospital San Diego, CA

Eric Buch, MD, MS, FACC Associate Professor of Medicine Director, Electrophysiology Lab University of California Los Angeles, CA

#### Roger Carrillo, MD, FACC

Professor of Surgery Chief, Surgical Electrophysiology Palmetto General Hospital Miami, FL

**Thomas Dewland, MD** Assistant Professor Oregon Health and Science University Portland, OR

Roger Freedman, MD Professor of Medicine University of Utah Salt Lake City, UT

Charles Henrikson, MD, FACC Professor of Medicine Director, Electrophysiology Service Oregon Health and Science University Portland, OR

Kevin Koomalsingh, MD Assistant Professor of Surgery University of Washington

Seattle, WA

Andrew Krahn, MD, FHRS Chief of Cardiology University of British Columbia Vancouver, BC

Lyle Larson, PA-C, PhD Teaching Associate, Division of Cardiology University of Washington Seattle, WA

Jennifer Miller, BSci, BFA, MBA Medical Materials and Lead Forensic Engineer JPM LLC Dayton, WY

Paul Pottinger, MD, FACP, FIDSA Professor of Medicine University of Washington Seattle, WA

Victor Pretorius, MBCHB, FRCSC Professor of Clinical Surgery Surgical Director, Heart Transplant & Mechanical Assist Program University of California San Diego, CA

**Jordan Prutkin, MD, MHS, FACC** Associate Professor of Medicine University of Washington Seattle, WA

Charles Swerdlow, MD, FAHA, FHRS, FACC Clinical Professor of Medicine University of California Los Angeles, CA

Bruce Wilkoff, MD, FACC Director Cardiac Pacing & Tachyarrhythmia Devices Cleveland Clinic Cleveland, OH

# Conference Schedule

7:30	Registration and Continental Breakfast	
Morning Chairs: Kristen Patton, MD and Ulrika Birgersdotter-Green, MD		
7:55	Introduction and Welcome- Kristen Patton, MD	
8:00	Updates from Society Consensus Documents on Lead Management and Lead Extraction- Bruce Wilkoff, MD	
8:30	Lead and Device Malfunction	
	How are leads made and how do they fail? Jennifer Miller, BSci, BFA, MBA	
	Diagnosing lead failure on device interrogation - Charles Swerdlow, MD	
	Choice in the management of a malfunctioning lead - Kristen Patton, MD	
	Cyber security- fact or fiction? - Andrew Krahn, MD	
9:15	Discussion	
9:30	Device Infections	
	CIED Infections, what is the true risk?- Jordan Prutkin, MD	
	Diagnosis of CIED Infection- Thomas Dewland, MD	
	Microbiology of CIED Infections and Antibiotic Prevention- Paul Pottinger, MD	
	Preventive Strategies to Avoid CIED Infections- Surgical Implant Techniques- Peter Belott, MD	
10:15	Discussion	
10:30	Break	
10:45	Tools and Techniques for Safe and Effective Lead Extraction	
	Laser, Mechanical Sheaths or Both- When to Use Which Technique- Eric Buch, MD	
	Extracting Leads Using the Femoral Approach- Roger Freedman, MD	
	Surgical Approaches or Novel Extraction Procedure Tools- Roger Carillo, MD	
	Risk Assessment in Lead Extraction in the Era of the Bridge Ballon - Jamil Bashir, MD	
	Tips and Tricks for Multiple Challenging Leads- Noel Boyle, MD	
11:45	Discussion	
12:00	Lunch (provided)	
Afternoon Chairs: Jeanne Poole, MD and Noel Boyle, MD		
12:45	Video Taped Cases and Discussions Commentators: Roger Carillo, MD; Bruce Wilkoff, MD; Roger Freedman, MD; Kevin Koomalsingh, MD	
1:45	How to Build a Successful Lead Extraction Program	
	Team Approach to Lead Extraction- Ulrika Birgersdotter-Green, MD	
	Management of the Lead Extraction Complication- Victor Pretorius, MD	
	Management of the Post-Extraction Patient Charles Henrikson, MD	
	Perspectives from the Advanced Practice Provider- Lyle Larson, PA-C, PhD	
2:30	Discussion	

# Conference Schedule (continued)

2:45	Novel Device Use and Removal Leadless Pacemakers- Indications, Success, Complications, Removal <i>Thomas Dewland</i> , MD Subcutaneous ICD- Indications, Success, Complications, Removal- Bruce Wilkoff, MD
	His Bundle Pacing- Alternative to LV Pacing, Failed LV Lead Placement? Roger Freedman, MD
3:15	Discussion
3:30	Break
3:45	Case Studies and Discussion
	Commentators: Andrew Krahn, MD and Charles Swerdlow, MD; Victor Pretorius, MD
	Tough Decision - Extract or Not Extract?- Eric Buch, MD
	Tough Extraction - How did I Troubleshoot Intraoperatively? Charles Henrikson, MD
	My Most Difficult Case- Peter Belott, MD

5:00 Reception



# HOTEL ACCOMMODATIONS

The following hotels are located near the conference site. To make reservations, please call the hotels directly. No room block has been reserved.

#### Residence Inn by Marriott

800 Fairview Ave N Seattle, WA 98109 206.624.6000

#### Staybridge Suites Seattle 1119 Mercer Street Seattle, WA 98109 206.596.2301



University of Washington Office of Continuing Medical Education Box 359558 Seattle, WA 98195-9558

# 6th Annual Lead Management Symposium

December 7, 2019

Register online at uwcme.org