

STATE OF MINNESOTA
Executive Department



Governor Tim Walz

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NOTICE OF APPOINTMENT

FEB 28 2021

Scott Sakaguchi

President of the Senate

Because of the special trust and confidence I have in your integrity, judgment, and ability, I have appointed you to the office of:

Public Member

Board on Judicial Standards

Effective: March 1, 2021

Expires: January 6, 2025

This appointment carries with it all rights, powers, duties, and emoluments granted by law and pertaining to this position until this appointment is superseded or annulled by me or other lawful authority or by any law of this State.

Signed and sealed February 23, 2021.



Handwritten signature of Tim Walz in black ink.

Tim Walz
Governor

Handwritten signature of Steve Simon in black ink.

Steve Simon
Secretary of State

Replacing: Gerald Kaplan

Filed on February 23, 2021
Office of the Minnesota
Secretary of State,
Steve Simon

Application for the position Public Member

Part I: Position Sought

Agency Name: Board on Judicial Standards
Position: Public Member

Part II: Applicant Information

Name: 9529267611 Scott Sakaguchi
Phone: (952) 926-7611
County: Hennepin
Mn House District: 49A
US House District: 3
Recommended by the Appointing Authority: False

Part III: Appending Documentation

Cover Letter and Resume

Type	File Type
Cover Letter	application/msword
Resume	application/msword

Additional Documents (.doc, .docx, .pdf, .txt)

Type	File Name
No additional documents found.	

Veteran: No Answer

Part V: Signature

Signature: Scott Sakaguchi
Date: 1/11/2021 10:56:38 AM

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President of the Senate

Scott Sakaguchi
6220 Westridge Blvd.
Edina, MN 55436

January 11, 2021

Office of the Secretary of State
180 State Office Building
100 Rev. Dr. Martin Luther King Jr. Blvd.
Saint Paul, MN 55155-1299

To Whom It May Concern:

I wish to apply for the open position as a Public Member on the Board of Judicial Standards. The Honorable Thomas Sipkins invited me to make this application.

I retired as a Professor of Medicine at the University of Minnesota in July 2019. In that capacity I had a full time medical practice as a cardiologist. I was also the Program Director of the training program in Clinical Cardiac Electrophysiology for cardiologists seeking subspecialty training in the management of arrhythmias. Since retirement I have provided limited cardiology care on an as-needed basis at the University of Minnesota Medical Center. (I have not been involved in COVID-related care.) I have also continued to assist with teaching of Medical Students and Cardiology Fellows at the University. Prior to the pandemic I also volunteered in a community-based program called "Play for Patrick" that provided free cardiac screening for school-aged athletes. I am providing an academic CV although it is not directly relevant to the Board of Judicial Standards.

The Board of Judicial Standards would provide a new and stimulating intellectual challenge for me, and would provide an opportunity to serve the State of Minnesota.

Sincerely,

Scott Sakaguchi
e-mail: sakag001@umn.edu

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CURRICULUM VITAE

SCOTT SAKAGUCHI

JANUARY 10, 2021

PERSONAL INFORMATION

Date of Birth: January 24, 1953
Place of Birth: San Jose, California
Spouse: Laurie Jean Miller
Children: Peter James Sakaguchi, 26 years
Kirsten Anna Sakaguchi, 24 years
Patrick Hans Sakaguchi, 19 years

Home address and phone:
6220 Westridge Blvd.
Edina, MN 55436
(612) 926-7611

Professional address and phone:
University of Minnesota School of Medicine
MMC 508
420 Delaware St. S.E.
Minneapolis, MN 55455
(612) 625-4401
(612) 624-4937 (FAX)

Shipping address:
Rm 261A - VCRC
401 East River Road
Minneapolis, MN 55455

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PRESENT POSITION

Retired, June 30, 2019

PREVIOUS ACADEMIC RANK AND POSITION

Professor of Medicine, University of Minnesota, 2012
Attending Physician, Department of Internal Medicine, Division of Cardiovascular
Disease, University Hospital, University of Minnesota Hospital and Clinics

EDUCATION

Stanford University; Stanford, California; 1971-1976; B.S. Biological Sciences 1975;
M.S. Biological Sciences 1976

University of California; Davis, California; 1982-1986; M.D. 1986

Mayo Graduate School of Medicine; Rochester, Minnesota; 1986-1989; 36 month
Residency in Internal Medicine

University of Minnesota; Minneapolis, Minnesota; 1989-1993; 36 month Fellowship in Cardiovascular Diseases; 12 month Fellowship in Cardiac Electrophysiology

BOARD CERTIFICATION

National Board of Medical Examiners (Parts I, II and III); July 1, 1987; Certificate Number 331504

American Board of Internal Medicine; Diplomate in Internal Medicine; September 13, 1989 (permanent); Candidate Number 125290

American Board of Internal Medicine; Diplomate in Cardiovascular Disease; November, 1993; Recertified November 2003; Recertified 2013; Candidate Number 125290

American Board of Internal Medicine; Diplomate in Clinical Cardiac Electrophysiology; November, 1996; Recertified 2006; Recertified 2016; Candidate Number 125290

MEDICAL LICENSURE

Minnesota; July 1, 1987; License Number 31005

HONORS/AWARDS

Yang Wang Lifetime Educator Award (2011), awarded by Cardiovascular Division, University of Minnesota

Clinical Excellence Award (2001), Department of Medicine, University of Minnesota

Phi Beta Kappa (1975)

Teacher of the Year (1996, 1999, 2004), awarded by Cardiology Fellows, University of Minnesota.

Minneapolis-St. Paul Magazine "Top Doctors" (2013-2019)

EDUCATIONAL ACTIVITIES

Lectures:

University of Minnesota:

Grand Rounds:

Torsades, or not Torsades? Cardiology Grand Rounds. 9/27/2017.

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Why don't more AF patients take warfarin or a NOAC? Medicine Grand Rounds.
7/27/2017.

Syncope and Driving: What's a Minnesota Physician to do? Medicine Grand
Rounds. 7/2/2015

Challenges in Medical Education: EP as a Case Study. Cardiology Grand
Rounds, Academic Cardiovascular Medicine Series. 10/6/10.

Cardiac Evaluation for Exercise and Sports. Medicine Grand Rounds, 11/5/09.

Long QT Syndrome and the Autonomic Nervous System. Cardiology Grand
Rounds, 5/20/09.

Atrial Fibrillation – 2005. Medicine Grand Rounds, 8/4/05.

Atrial Fibrillation - 2002. Medicine Grand Rounds, 10/3/02.

When can patients with cardiac syncope drive in Minnesota?. Medicine Grand
Rounds, 9/6/01

Atrial Fibrillation. Medicine Grand Rounds, 8/5/99.

Atrial Flutter: A Reentrant Arrhythmia. Medicine Grand Rounds, 10/12/95.

Drug Induced Torsades de Pointes. Medicine Grand Rounds, 6/30/94.

Continuing Medical Education:

ECG Primer: ECG in the Athlete: What is Normal? 31st Annual Cardiac
Arrhythmia CME Course, 3/29/2019

ECG Primer: What can we learn from the ST-segment and the T-wave. 30th
Annual Cardiac Arrhythmia CME Course, 4/6/2018

ECG Primer: Recognizing the Various Forms of AV Block. 29th Annual Cardiac
Arrhythmia CME Course, 4/7/2017

2016 Lillehei Symposium

- Course Co-Director
- Lecture: ECG Skills Workshop – Chest pain and ST segments
- Lecture: ECG Skills Workshop - Evaluating the QT interval

ECG Primer: SVT vs. VT: What you should remember to tell the difference.
28th Annual Cardiac Arrhythmia CME Course, 4/8/2016

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American Journal of Cardiology
Europace
Journal of the American College of Cardiology
Journal of Cardiac Failure
Journal of Electrocardiology
Journal of Interventional Cardiac Electrophysiology
Mayo Clinic Proceedings

PRESENTATIONS AT NATIONAL MEETINGS

Estrogen suppresses delayed outward potassium currents in guinea pig ventricular myocytes.
Poster presentation at Federation of American Societies for Experimental Biology,
Atlanta, GA, April 11, 1995.

CLINICAL PRACTICE, INTERESTS AND ACCOMPLISHMENTS

Clinical practice in cardiac electrophysiology including evaluation and management of cardiac arrhythmias, syncope, implantation and follow-up of pacemakers and implantable defibrillators, catheter ablation of tachycardia including AV nodal modification, accessory pathway ablation, His bundle ablation and ablation of ectopic tachycardia foci.

A personal interest in Master's swimming led me to organize and provide medical care for the 1993 United States Master's Swimming Long Course National Championship 8/18-22/93 at the University of Minnesota. This included recruiting and coordinating 10 physician volunteers, 8 paramedic volunteers, 2 on-site ambulances and over 2 dozen E.M.T. volunteers.

RESEARCH INTERESTS

Clinical research interest in evaluation and management of syncope and arrhythmias in athletes.

Basic science interest in ionic currents responsible for cardiac repolarization. Particular interest in potassium currents that may contribute to early afterdepolarizations and triggered automaticity, and in regional variations in the distribution and properties of potassium channels that may underlie reentrant arrhythmias.

SPONSORED RESEARCH (as LOCAL PRINCIPLE INVESTIGATOR)

Ranolazine Implantable Cardioverter-Defibrillator Trial (RAID). NCT01215253. National Institutes of Health. Status: enrolling patients.

Multidisciplinary Study of Right Ventricular Dysplasia. HSC# 0201M16301. National Institutes of Health, National Heart, Lung, and Blood Institute. Status: completed, closed.

INDUSTRY SPONSORED RESEARCH (as LOCAL PRINCIPLE INVESTIGATOR)

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MapReveal: Mapping of ECG Signal for Optimal Sensing in a Reveal Implantable Cardiac Monitor. Medtronic. Status: enrollment complete, following patients.

HESTIA: A Placebo-Controlled, Double-Blind, Randomized, Multi-Center Study to Assess the Effects of Multaq® 400 mg BID for 12 Weeks on Atrial Fibrillation Burden in Subjects with Permanent Pacemakers. HSC# 1008M88133. Sanofi Aventis. Status: ended.

OPTIMUM lead registry. HSC# 0701M99269. St. Jude Medical. Status: enrollment complete, following patients.

Biventricular versus Right Ventricular Pacing in Heart Failure Patients with Atrioventricular Block (BLOCK HF). HSC# 0005M86246. Medtronic Incorporated. Status: completed.

St. Jude Device System Post-Approval Study (PAS). HSC# 0601M80606. St. Jude Medical. Status: complete.

In The Office ICD Respiration Impedance Monitoring Study (INTERIM). HSC# 05006M70375. Medtronic Incorporated. Status: completed.

TENDRIL FSR 1699T Leads: Bipolar Far-Field Sensing Reduction Endocardial, Steroid-Eluting, Active Fixation Leads. HSC# 0603M82807. St. Jude Medical. Status: completed.

ATPace Phase II Placebo Controlled, Non-Randomized Study of Intravenous ATPace for the Diagnosis of Bradycardic Syncope. HSC# 0501M66733. Duska Scientific Co. Status: enrollment temporarily on hold by study sponsor.

InSync Registry. HSC# 0203M19981. Medtronic Incorporated. Status: complete enrollment, following patients.

A Placebo-Controlled, Double-Blind, Parallel Arm Trial of Assess the Efficacy of Dronedaron 400 ms bid for Prevention of Cardiovascular Hospitalization or Death from Any Cause in Patients with Atrial Fibrillation/Atrial Flutter (ATHENA). HSC# 0508M72995. Sanofi-Aventis. Status: completed. Results published Hohnloser et al 2009 NEJM 360:668-678

Advancements in ICD Therapy ACT Registry. HSC# 012M65846. St. Jude Medical. Status: completed enrollment, following patients.

The OMNI Study. HSC# 0510M76146. Medtronic Incorporated. Status: completed enrollment, following patients.

Assessment of Modified Rapid Induction Analgesia on Modulation of Acute Pain Due to Atrial Shock Delivery in ICD Patients. (FUMC Code 0309M52284). Status: completed.

Detection of SVT with Single Chamber vs. Dual Chamber Enhancements in Dual Chamber ICDs (DETECT Study). FUMC Code 0310M52841). St. Jude Medical. Status: completed.

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Phase 1 Placebo Controlled Non-Randomized Crossover Study of the Safety of Intravenous ATPace (Adenosine 5-Triphosphate) in Elderly Patients with Neurally-Mediated Syncope. (FUMC Code 0203M19541). Duska Scientific Co. Status: Completed.

Atrial rate conversion efficacy with delay in patients with atrial fibrillation. (FUMC Code 0002M34861). Medtronic Incorporated. Status: Completed.

Placebo controlled evaluation of the efficacy and safety of oral sotalol in patients with life threatening ventricular arrhythmias and implanted cardioverter defibrillators. (UMHC Code 9404M08127). Berlex Laboratories. Status: Completed. Results published Pacifico et al 1999 NEJM 24:1855-1862.

Daig Livewire steerable catheter/Radionics RFG-3D lesion generator. (UMHC Code 9502M09396). Daig Corporation. Status: Completed.

RESEARCH GRANTS AWARDED

North American Society of Pacing and Electrophysiology, Fellowship Stipend 7/1/92 to 6/30/93 (\$28,000), Modulation of potassium conductance in triggered activity by adenosine and acetylcholine.

American Heart Association, Minnesota Affiliate, Fellowship Stipend 7/1/91 to 6/30/92 (\$24,000), Modulation of potassium conductance in triggered activity by adenosine and acetylcholine.

Council for Tobacco Research, Research Grant 7/1/95 to 6/30/98 (\$150,000), Acute effects of estrogen on potassium current in isolated ventricular myocytes.

OTHER ACTIVITIES

Volunteer physician, Play for Patrick Heart Screening 2019, 2020.

BIBLIOGRAPHY

Papers

Benditt DG, van Dijk JG, Krishnappa D, Adkisson WO, Sakaguchi S. Neurohormones in the pathophysiology of vasovagal syncope in adults. *Frontiers in Cardiovascular Medicine* 2020, 7:76(P1-12).

Krishnappa D, Sakaguchi S, Kasinadhuni G, Tholakanahalli VN. An unyielding valve leading to venous spasm during pacemaker implantation: a case report. *European Heart Journal. Case Reports* 2019, 3:1-4.

Kohno R, Adkisson, WO, Detloff BLS, Sakaguchi S, Benditt DG. Swallow (Deglutition) Syncope: An Evaluation of Swallowing-Induced Heart Rate and Hemodynamic Changes in Affected Patients and Control Subjects. *J Cardiovasc Electrophysiol* 2019, 30:221-229.

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- Sakaguchi S, Sandberg J, Benditt DG. ECG electrode reversals: an opportunity to learn from mistakes. *Journal of Cardiovascular Electrophysiology* 2018, 29:806-815.
- Benditt DG, Adkisson WO, Sutton R, Mears RK, Sakaguchi S. Ambulatory Diagnostic ECG Monitoring for Syncope and Collapse: An Assessment of Current Clinical Practice in the United State. *PACE* 2018, 41:203-209.
- Chang ICY, Agamawi YM, Austin E, Adkisson WO, Roukoz H, Wald LNV, Sakaguchi S, Benditt DG, Chen LY. Usefulness of atrial fibrillation as a marker for adverse cardiovascular outcomes in both primary and secondary prevention in patients with implantable cardioverter-defibrillators. *American Journal of Cardiology* 2016, 118:1497-1502.
- Rosenbaum AN, Kremers WK, Duval S, Sakaguchi S, John R, Eckman PM. Arrhythmias in patients with cardiac implantable electrical devices following implantation of a left ventricular assist device. *American Society of Artificial Internal Organs Journal. ASAIO Journal* 2016, 62(3):274-280.
- Senturk T, Xu H, Puppula K, Krishnan B, Sakaguchi S, Chen LY, Karim R, Dickinson O, Benditt DG. Cardiac pauses in competitive athletes: a systematic review examining the basis of current practice recommendations. *Europace* 2016, 18(12):1873-1879.
- Kim MH, Zhang Y, Sakaguchi S, Goldberger JJ on behalf of the OMNI Study Investigators. Time course of appropriate implantable cardioverter-defibrillator therapy and implications for guideline-based driving restrictions. *Heart Rhythm* 2015, 12:1728-1736.
- Ziegler PD, Sakaguchi S, Simons GR, Koehler JL, Warman E. The prevalence of sinus rhythm in patients with "permanent" atrial fibrillation. *PACE* 2014, 37:674-681.
- Krahn A, Pickett R, Sakaguchi S, Shaik N, Cao J, Norman H, Guetreo P. R-wave sensing in an implantable cardiac monitor without ECG-based pre-implant mapping: results from a multicenter clinical trial. *PACE* 2014, 37:505-511.
- Dickinson O, Zakharova M, Detloff BL, Chen LY, Benditt DG, Francis GS, Sakaguchi S. Isolated left ventricular non-compaction cardiomyopathy associated with polymorphous ventricular tachycardia mimicking torsades de pointes. *Journal of Arrhythmia* 2013, 29:43-46.
- Sakaguchi S, Li H. Syncope and driving, flying and vocational concerns. *Progress CV Diseases* 2013, 55:454-463.
- Chu M, Ebert B, Benditt DG, Sakaguchi S. A temporary pacemaker initiates, then obscures, ventricular fibrillation. *J Cardiovasc Electrophysiol* 2013, 24:102.
- Sweeney MO, Sakaguchi S, Simons G, Machado C, Connett JE, Yang F for the OMNI Study Investigators. Response to the Center for Medicare & Medicaid Services coverage with

evidence development request for primary prevention implantable cardioverter-defibrillators: Data from the OMNI study. *Heart Rhythm* 2012, 9:1058-1066.

Benditt DG, Sakaguchi S, Jhanjee R. Right ventricular pacing in MADIT II: a risk factor for increased mortality, or mainly a marker of increased risk. *Heart Rhythm* 2011, 8:219-220.

Jhanjee R, Templeton GA, Sattiraju S, Nguyen J, Sakaguchi S, Lu F, Ermis C, Milstein S, Van Heel L, Lurie KG, Benditt DG. Relationship of paroxysmal atrial tachyarrhythmias to volume overload: assessment by implanted transpulmonary impedance monitoring. *Circulation: Arrhythmia and Electrophysiology* 2009, 2:488-494.

Marcus F, Zareba W, Calkins H, Towbin JA, Basso C, Bluemke DA, Estes NAM, Picard MH, Sanborn D, Thiene G, Wichter T, Cannom D, Wilbur DJ, Scheinman M, Duff H, Daubert J, Talajic M, Krahn A, Sweeney M, Garan H, Sakaguchi S, Lerman BB, Kerr C, Kron J, Steinberg JS, Sherrill D, Gear K, Brown M, Severski P, Polonsky S, McNitt S. Arrhythmogenic right ventricular cardiomyopathy/dysplasia clinical presentation and diagnostic evaluation: Results from the North American Multidisciplinary Study. *Heart Rhythm* 2009; 6:984-992.

Yannopoulos D, Lurie KG, Sakaguchi S, Milstein S, Ermis C, VanHeel L, Benditt DG. Reduced atrial tachyarrhythmia susceptibility following upgrade of conventional implanted pulse generator to cardiac resynchronization therapy in patients with heart failure. *Journal of the American College of Cardiology* 2007; 50:1246-1251.

Melby DP, Lu F, Sakaguchi S, Zook M, Benditt DG. Increased impedance to inspiration ameliorates hemodynamic changes associated with movement to upright posture in orthostatic hypotension: A randomized blinded pilot study. *Heart Rhythm* 2007; 4:128-135.

Jhanjee R, van Dijk JG, Sakaguchi S, Benditt DG. Syncope in adults: terminology, classification, and diagnostic strategy. *Pacing & Clinical Electrophysiology* 2006;29:1160-1169.

Ermis C, Seutter R, Zhu AX, Benditt LC, VanHeel L, Sakaguchi S, Lurie KG, Lu F, Benditt DG. Impact of upgrade to cardiac resynchronization therapy on ventricular arrhythmia frequency in patients with implantable cardioverter-defibrillators. *Journal of the American College of Cardiology* 2005; 46:2258-2263.

Benditt DG, Samniah N, Pham S, Sakaguchi S, Lu F, Lurie KG, Ermis C. Effect of cough on heart rate and blood pressure in patients with "cough syncope". *Heart Rhythm* 2005; 2:807-813.

Ermis C, Zhu AX, VanHeel L, Lemke MJ, Sakaguchi S, Lurie KG, Lu F, Lin J, Benditt DG. Comparison of ventricular arrhythmia frequency in patients with ischemic cardiomyopathy versus nonischemic cardiomyopathy treated with implantable cardioverter defibrillators. *American Journal of Cardiology* 2005; 96:233-238.

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- Giese AE, Li V, McKnite S, Sakaguchi S, Ermis C, Samniah N, Benditt DG. Impact of age and blood pressure on the lower arterial pressure limit for maintenance of consciousness during passive upright posture in healthy vasovagal fainters: preliminary observations. *Europace* 2004; 6:457-462.
- Ermis C, Lurie KG, Zhu AX, Collins J, Vanheel L, Sakaguchi S, Lu F, Pham S, Benditt DG. Biventricular implantable cardioverter defibrillators improve survival compared with biventricular pacing alone in patients with severe left ventricular dysfunction. *Journal of Cardiovascular Electrophysiology* 2004; 15:862-866.
- Samniah N, Sakaguchi S, Ermis C, Lurie KG, Benditt DG. Transient modification of baroreceptor response during tilt-induced vasovagal syncope. *Europace* 2004; 6:48-54.
- Benditt DG, van Dijk JG, Sutton R, Wieling W, Lin JC, Sakaguchi S, Lu F. Syncope. *Current Problems in Cardiology* 2004; 29:152-229.
- Ermis C, Samniah N, Sakaguchi S, Lurie KG, Pham S, Lu F, Benditt DG. Comparison of catecholamine response during tilt-table induced vasovagal syncope in patients <35 years to those >65 years of age. *American Journal of Cardiology* 2004; 93:225-227.
- Ermis C, Zhu AX, Pham S, Li JM, Guerrero M, Vrudny A, Hiltner L, Lu F, Sakaguchi S, Lurie KG, Benditt DG. Comparison of automatic and patient-activated arrhythmia recordings by implantable loop recorders in the evaluation of syncope. *American Journal of Cardiology* 2003; 92:815-819.
- Benditt, DG, Ermis C, Pham S, Hiltner L, Vrudney A, Lurie KG, Sakaguchi S. Implantable diagnostic monitoring devices for evaluation of syncope, and tachy- and brady-arrhythmias. *Journal of Interventional Cardiac Electrophysiology* 2003; 9:137-144.
- Ermis C, Zadeii G, Zhu AX, Fabian W, Collins J, Lurie, KG, Sakaguchi S, Benditt DG. Improved survival of cardiac transplantation candidates with implantable cardioverter defibrillator therapy: role of beta-blocker or amiodarone treatment. *Journal of Cardiovascular Electrophysiology* 2003; 14:578-583.
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- Benditt DG, Ermis C, Padanilam B, Samniah N, Sakaguchi S. Catecholamine response during hemodynamically stable upright posture in individuals with and without tilt-table induced vasovagal syncope. *Europace* 5:65-70, 2003. FEB 28 2021
- Ermis C., Zhu AX, Sinha S, Iskos D, Sakaguchi S, Lurie KG, Benditt DG. Efficacy of biphasic waveform cardioversion for atrial fibrillation and atrial flutter compared with conventional monophasic waveforms. *American Journal of Cardiology* 90:891-892, 2002.

Benditt DG, Samniah N, Iskos D, Lurie KG, Padanilam BJ, Sakaguchi S. Biphasic waveform cardioversion as an alternative to internal cardioversion for atrial fibrillation refractory to conventional monophasic waveform transthoracic shock. *American Journal of Cardiology* 88:1526-1428, 2001.

Samniah N, Iskos D, Benditt DG, Lurie KG, Sakaguchi S, Smicek K, Fahy GJ. Unusual cause of supraventricular tachycardia after acute myocardial infarction. *Pacing and Clinical Electrophysiology* 24:1023-1025, 2001.

Samniah N, Iskos D, Sakaguchi S, Lurie KG, Benditt DG. Syncope in pharmacologically unmasked Brugada syndrome: indication for an implantable defibrillator or an unresolved dilemma? *Europace* 3:159-163, 2001.

Samniah N, Sakaguchi S, Benditt DG. Atrioventricular dissociation exacerbating posturally-induced syncope. *Journal of Interventional Cardiac Electrophysiology* 5:153-157, 2001.

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Benditt DG, Fahy GJ, Lurie KG, Sakaguchi S, Fabian W, Samniah N. Pharmacotherapy of neurally-mediated vasovagal syncope. *Circulation* 100:1242-1248, 1999.

Iskos D, Fahy GJ, Lurie KG, Sakaguchi S, Collins JM, Fetter J, Benditt DG. Physiologic cardiac pacing in patients with contemporary implantable cardioverter-defibrillators. *Am J Cardiol* 82:66-71, 1998.

Voice R, Lurie KG, Sakaguchi S, Rector TS, Benditt DG. Comparison of tilt angles and provocative agents (edrophonium and isoproterenol) to improve head-upright tilt-table testing. *Am J Cardiol* 81:346-351, 1998.

Lurie KG, Buscemi PJ, Iskos, D, Adkisson W, Fahy GJ, Sakaguchi S, Hoff J, Benditt DG. Comparison of right atrial and peripheral procainamide infusion levels in patients with spontaneous or induced atrial fibrillation. *PACE* 21(1 Part 2):277-283, 1998.

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Book Chapters

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- Sakaguchi S. Interpretation of the Pacemaker ECG. In: Lu F and Benditt DG (eds), Cardiac Pacing and Defibrillation: Principle and Practice. 1st edition. P.R. China, People's Medical Publishing House. p144-178, 2008.
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- Benditt DG, Sakaguchi S. Syncope. In: Willerson JT, Cohn JN, Wellens HJJ and Holmes DR (eds), Cardiovascular Medicine, 3rd edition. London, Springer-Verlag. p2019-2037, 2007.
- Lu F, Sakaguchi S, Benditt DG. Cardiac Arrhythmias and Transcatheter Ablation. In: Iaizzo PA (ed), Handbook of Cardiac Anatomy, Physiology, and Devices, Totowa, Humana Press. p303-321, 2005.
- Lu F, Sakaguchi S, Benditt DG. Syncope. In: Rosendorff C, Essential Cardiology: Principles and Practice. 2nd edition. Totowa, Humana Press, p 329-346, 2005.
- Benditt DG, Ermis C, Lurie KG, Sakaguchi S. Syncope. In: Yusuf S, Cairns JA, Camm AJ, Fallen EL and Gersh BJ (eds), Evidence-Based Cardiology, 2nd edition. London, BMJ Books. 619-633, 2003.

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- Benditt DG, Samniah N, Fahy G, Lurie KG, Sakaguchi S. Is there a role for cardiac pacing in vasodepressor syncope? In: Singer I (ed), Interventional Electrophysiology, 2nd edition. Philadelphia, Lippincott Williams and Wilkins. p 809-818, 2001.
- Benditt DG, Fabian W, Sakaguchi S. Syncope. In: Willerson JT and Cohn JN (eds), Cardiovascular Medicine. New York, Churchill Livingstone. p 1688-1709, 2000
- Benditt DG, Lurie KG, Fahy G, Iskos D, Sakaguchi S. Treatment of vasovagal syncope: Is there a role for cardiac pacing? In: Singer I, Barold SS and Camm AJ (eds), Nonpharmacological Therapy of Arrhythmias for the 21st Century: The Start of the Art. Armonk, NY, Futura Publishing Company Inc. p 881-889, 1998.
- Benditt DG, Sakaguchi S, Lurie KG, Mianulli M. Non-rate adaptive sensor functions in cardiac pacing systems. In: Barold SS and Mugica J (eds), Recent Advances in Cardiac Pacing: Goals for the 21st Century, Armonk, NY: Futura Publishing Company Inc. Vol 4, p 315-334, 1998.
- Benditt DG, Sakaguchi S, Lurie KG, Adler SW. Pathophysiology of Neurally Mediated Syncope. In: Saksena S, Luderitz B (eds), Interventional Electrophysiology: A Textbook, Second Edition. Armonk, NY: Futura Publishing Company Inc. p 133-143, 1996.
- Benditt DG, Adler SW, Beatty G, Sakaguchi S, Hastings R, Lafontaine D. Advances in transcatheter endocardial mapping and radiofrequency ablation of ventricular arrhythmias. In: Oto AM (ed), Practice and Progress in Cardiac Pacing and Electrophysiology. Netherlands: Kluwer Academic Publishers, p 277-287, 1996.
- Benditt DG, Adler SW, Remole SC, Sakaguchi S, Lurie KG. Antitachycardia pacing and implantable cardioverter defibrillators for treatment of supraventricular tachyarrhythmias. In: Singer I (ed), Implantable Cardioverter-Defibrillator. Armonk, NY: Futura Publishing Company Inc. p 651-674, 1994.
- Benditt DG, Lurie K, Adler S, Sakaguchi S. Rationale and methodology of head-up tilt table testing for evaluation of neurally mediated (cardioneurogenic) syncope. In: Zipes DP, Jalife J, ed. Cardiac Electrophysiology: From Cell to Bedside. Philadelphia: W. B. Saunders Company, 1995: 1115-1129.
- Benditt DB, Sakaguchi S, Goldstein MA, Lurie KG, Gornick CC, Adler SW. Sinus node dysfunction: pathophysiology, clinical features, evaluation, and treatment. In: Zipes DP, Jalife J, ed. Cardiac Electrophysiology: From Cell to Bedside. Philadelphia: W. B. Saunders Company, 1995: 1215-1247.

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Other Invited Book Contributions

- Sakaguchi S, Akdemir B. Contributions to Section 16: Syncope and ECG Troubleshooting. In: Shenasa M, Josephson ME, Esters III NAM, Amsterdam EA, Scheinman M. ECG

Masters' Collection: Favorite ECGs from Master Teachers Around the World.
Cardiotext 2017.

Sakaguchi S, Akdemir B. Contribution to Section 16: Syncope and ECG Troubleshooting. In: Shenasa M, Josephson ME, Esters III NAM, Amsterdam EA, Scheinman M. ECG Masters' Collection: Favorite ECGs from Master Teachers Around the World. Vol 2. Cardiotext 2018.

Abstracts

Olson M, Benditt DG, Sakaguchi S, Li JM, Tholakanahalli VN. Subclinical ischemia induced vasovagal syncope. *Heart Rhythm* 2016; 13:S410.

Krishnan B, Dickinson O, Akdemir B, Puppala VK, Detloff B, Sakaguchi S, Adkisson WO, Benditt DG. Cough syncope susceptibility is characterized by exaggerated and prolonged post-cough hypotension. *Heart Rhythm* 2016; 13:S503.

Krahn AD, Pickett RA, Sakaguchi S, Cao J, Norman HS, Guerrero P. Subcutaneous R-wave sensing with a closely spaced bipolar electrode is feasible within the implant zone of an implantable cardiac monitor. *Heart Rhythm* 2012; 9:S234.

Machado CE, Sakaguchi S, Simons GR, Yang F, Hudnall H. Appropriateness of primary prevention ICD therapy application: a retrospective cohort analysis of OMNI. *Heart Rhythm* 2012; 9:S369.

Rosenbaum AN, Sakaguchi S, John R, Eckman PM. Arrhythmias in patients with cardiac implantable electrical devices (CIED) following implantation of a left ventricular assist device (LVAD). Accepted for presentation ISHLT 31st Annual Meeting and Scientific Sessions 2011.

Machado CE, Sweeney MO, Sakaguchi S, Simons GR, Qiao H, Skorupa S, Hudnall H. Time to first appropriately treated VT/VF episode in guideline vs. non-guideline primary prevention ICD patients: Preliminary results from the OMNI study. *Heart Rhythm* 2009; 5:S250.

Adler S, Sakaguchi S, Tindell L, Dicken J, Erickson M, Jovanovic M, Giese C, Markowitz T. The effect of posture on transthoracic impedance measured via implanted ICD's – the INTERIM study (In the Office Respiratory Impedance Monitoring). *Heart Rhythm* 2007; 4:S400.

Melby DP, Lu F, Sakaguchi S, Zook M, Convertino VA, Benditt DG. A novel inspiratory impedance threshold device improves orthostatic intolerance. *Heart Rhythm* 2005; 2:S111.

Varghese A, Boland L, Sakaguchi S. Modulation of KvLQT1/MinK potassium current by 17beta-estradiol and diethylstilbestrol.

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- Tanno, K, DG Benditt and S Sakaguchi. The effect of 17beta-Estradiol on delayed outward potassium current. *Circulation* 1996; 94(Suppl):I-529.
- Lurie, KL, KA Mulligan, SH McKnite, S Sakaguchi, P Lindstrom and KH Lindner. Synergistic effects of vasopressin plus epinephrine during cardiopulmonary resuscitation. *Circulation* 1996; 94(Suppl):I-356.
- Yu G-Y, Sakaguchi S, Kikushima S, Huang J, Benditt DG. Estrogen suppresses delayed outward potassium currents in guinea pig ventricular myocytes. *FASEB Journal* 1995;9:A388.
- Schiller L, Hunter DW, Hockstad EF, Shultz JJ, Benditt DG, Sakaguchi S, et al. Extrathoracic subclavian venipuncture avoids clavicular soft tissue entrapment observed with standard venipuncture technique. *PACE*. 1994;17:786.
- Schiller L, Shultz JJ, Sakaguchi S, Adler SW, Lurie KG, Benditt DG. Catecholamine responses to upright tilt differ in elderly and young patients with neurally-mediated syncope. *PACE*. 1994;17:812.
- Kikushima S, Sakaguchi S, Yu G-Y, Benditt DG. Potassium current differences in isolated guinea pig epicardial and endocardial ventricular cells: a potential basis for difference of action potential duration. *Circulation*. 1994; 90(Suppl):I-583.
- Voice RA, Lurie KG, Adler SW, Sakaguchi S, Shultz JJ, Benditt DG. Comparison of edrophonium and isoproterenol in the detection of neurally mediated syncope. *Circulation*. 1994;90:I-54.
- Yu G-Y, Sakaguchi S, Baba T, Kikushima S, Huang JM, Benditt DG. Ethanol reduces calcium currents in isolated guinea-pig atrial myocytes. *Pacing and Clinical Electrophysiology (PACE)* 16:870, 1993.
- Yu G-Y, Sakaguchi S, Baba T, Kikushima S, Huang JM, Benditt DG. Ethanol reduces calcium currents in isolated guinea-pig atrial myocytes. *Cardiovasc Drugs Ther* 7 (suppl 2): 443, 1993.
- Sakaguchi S, Yu G-Y, Baba T, Kikushima S, Huang JM, Benditt DG. Adenosine and acetylcholine reduce isoproterenol induced increases in delayed potassium currents in isolated guinea pig ventricular myocytes. *Cardiovasc Drugs Ther* 7 (suppl 2): 443, 1993.
- Sakaguchi S, Shultz JJ, Remole, SC, Adler SW, Lurie KG, Benditt DG. Syncope accompanying vigorous exercise in young patients without overt heart disease: A manifestation of neurally-mediated syncope. *Pacing and Clinical Electrophysiology (PACE)* 16:893, 1993.
- Adler SW, Remole SC, Lurie KG, Fetter J, Sakaguchi S, Shultz J, et al. A pectoral 'active' cathodal defibrillator case facilitates effectiveness of a single electrode transvenous unipolar defibrillation system. *Circulation*. 1993;88(4, part 2 (Suppl.)):I-154.

ECG Primer: The ECG in Pacemaker Patients. 27th Annual Cardiac Arrhythmia CME Course. 4/3/2015

13th Annual Lillehei Symposium 10/24/2014
• Interactive lecture: ECG Case Review

ECG Primer: Can we recognize different forms of SVT from the ECG? 26th Annual Cardiac Arrhythmia CME Course, 4/4/2014

13th Annual Lillehei Symposium 9/5-6/2013
• Interactive lecture: ECG Case Review- Pacemaker ECGs

ECG Primer: Long QT and Brugada ECG Recognition. 25th Annual Cardiac Arrhythmia CME Course, 4/26/13.

ECG Primer: Why do bundle branch blocks and fascicular blocks look the way they do? 24th Annual Cardiac Arrhythmia CME Course, 4/13/12.

11th Annual Lillehei Symposium 4/18-19/11
• Course Director
• Moderator: Arrhythmia Session
• Lecturer: Syncope: Who Should Be Referred For Evaluation?
• Interactive lecture: ECG Case Review

ECG Primer: The Messed-up ECG: Identifying Misplaced ECG Leads. 23rd Annual Cardiac Arrhythmia CME Course, 3/25/11.

10th Annual Lillehei Symposium 4/19-20/10
• Course Director
• Moderator: Arrhythmia Session
• Interactive lecture: ECG Case Review

ECG Primer: AV Block and Intraventricular Conduction Disturbances: ECG Recognition and Which Need Pacemakers. 22nd Annual Cardiac Arrhythmia CME Course, 4/2/10.

10th Annual Lillehei Symposium 5/11-12/09
• Course Director
• Moderator: Arrhythmia Session
• Interactive lecture: ECG Case Review

ECG Primer: Electrocardiographic Markers of Genetic-Based Arrhythmogenic Diseases. 21th Annual Cardiac Arrhythmia CME Course, 4/3/09.

Atrial Fibrillation 2009. CME Series: More Cardiology, Less Time. 3/12/09. 5/21/09.

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Life Threatening Rhythm Disorders. CME: Cardiology for Emergency Medical Personnel. 12/10/08.

9th Annual Lillehei Symposium 4/28-29/08

- Course Director
- Moderator: Arrhythmia Session
- Interactive lecture: ECG Case Review

8th Annual Lillehei Symposium 5/14-15/07

- Course Director
- Moderator: Arrhythmia Session
- Interactive lecture: ECG Interpretation and Arrhythmias

ECG Primer: Normal ECG Variations: Distinguishing “Normal” from “Disease”. 19th Annual Cardiac Arrhythmia CME Course, 4/13/07.

Advances in Treatment of Atrial Arrhythmias. Internal Medicine Review and Update 2006 CME, 10/13/06.

7th Annual Lillehei Symposium 4/17/06

- Course Director
- Moderator: Arrhythmia Session
- Interactive lecture: Rapid Fire ECG Interpretation

ECG Primer: Basic Pacemaker ECGs for the Faint of Heart. 18th Annual Cardiac Arrhythmia CME Course, 3/24/06.

6th Annual Lillehei Symposium 4/11-12/05

- Course Director
- Moderator: Arrhythmias - Interactive Case Discussion
- Workshop (director): Advanced ECG Interpretation

Management of Atrial Fibrillation. Internal Medicine Review CME 10/13/04.

ECG Primer: Ventricular Tachycardia in the “Normal” Heart. 17th Annual Cardiac Arrhythmia CME Course, 4/1/04.

5th Annual Lillehei Symposium 4/19-20/04

- Course Director
- Lecture: Management of Atrial Fibrillation: Drugs, Ablation Therapy and Defibrillators
- Workshop (director): Mastering Bedside ECG Skills

ECG Primer: Evaluating the QT Interval. What affects the QT? Why is it important? 16th Annual Cardiac Arrhythmia CME Course, 4/9/04.

Practical Management of Atrial Fibrillation. 4th Annual Lillehei Symposium 4/25/03.

President of the Senate

Case studies in sudden cardiac death. 4th Annual Lillehei Symposium 4/25/03.

ECG Primer: Is it VT or SVT with Aberration? 15th Annual Cardiac Arrhythmia Continuing Medical Education Course, 4/4/03.

Palpitations: Case studies. 3rd Annual Lillehei Symposium 5/17/02.

An Arrhythmia Primer. 14th Annual Cardiac Arrhythmia Continuing Medical Education Course, 4/19/02.

Management of Syncope. Internal Medicine Review. Continuing Medical Education Course, 10/10/01.

Driving Risk and Heart Disease. 14th Annual Cardiac Arrhythmia Continuing Medical Education Course, 4/19/02.

Cardiac Arrhythmias: Case Studies. 2nd Annual Lillehei Symposium, 5/22/01.

ECG Skill Workshop (3 hours). 2nd Annual Lillehei Symposium, 5/22/01.

An ECG Primer. 13th Annual Cardiac Arrhythmia Continuing Medical Education Course, 4/20/01.

Management of Atrial Fibrillation - Antiarrhythmic Drug Selection. 1st Annual Lillehei Symposium, 6/2/00.

An ECG Primer - Infarction and Pseudoinfarction. 1st Annual Lillehei Symposium, 6/2/00.

Genetics and Cardiac Arrhythmias - Recent Observations (Long QT, Brugada Syndrome, ARVD). 12th Annual Cardiac Arrhythmia Continuing Medical Education Course, 4/7/00.

Atrial Fibrillation as a Risk Factor for Stroke. Geriatric Medicine and Drug Therapy Symposium, 3/1/00.

Management of Atrial Fibrillation and Other Cardiac Arrhythmias. Internal Medicine Review Continuing Medical Education Course, 10/13/99.

Troubleshooting Wide QRS Tachycardias - an ECG Review. 11th Annual Cardiac Arrhythmia Continuing Medical Education Course, 4/9/99.

Ventricular Tachyarrhythmias: Current Status of Antiarrhythmic Drug Trials - EMIAT, CAMIAT, GESICA, CHF-STAT. 10th Annual Cardiac Arrhythmia Continuing Medical Education Course, 4/3/98.

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The Student Athlete: Evaluation of Syncope and Dizziness. 9th Annual Cardiac Arrhythmia Continuing Medical Education Course, 4/4/97.

Wide QRS Tachycardias: Causes and Management. 8th Annual Cardiac Arrhythmia Continuing Medical Education Course, 4/19/96.

Paroxysmal Supraventricular Tachycardias: Clinical Recognition, ECG Manifestations and Treatment Options. 7th Annual Cardiac Arrhythmia Continuing Medical Education Course, 4/21/95.

Unusual Ventricular Arrhythmias. 7th Annual Cardiac Arrhythmia Continuing Medical Education Course, 4/21/95.

Recognition and Management of Special Forms of Ventricular Tachycardia: Torsade de Pointes, Bundle-Branch Reentry, Right Ventricular Outflow Tract VT. 6th Annual Cardiac Arrhythmia Continuing Medical Education Course, 4/15/94.

Cardiology Fellows:

Prevention and Management of pacemaker and defibrillator infections. EP Didactic Series. 12/20/2018

Learning from Mistakes: Insights into the ECG from electrode reversals. EP Didactic Series. 12/21/2017.

Supraventricular Tachycardia, clinical management and intracardiac electrograms. For Cardiology Fellows, 11/2/2016.

(1) ECG Lead Reversals (2) PPM/ICD Electrograms. For Cardiology Fellows, 5/25/2016.

Pacemakers and Pacemaker ECG. For Cardiology Fellows, 9/9/2015.

Channelopathies. For Cardiology Fellows, 1/22/2014, 11/5/2014.

Torsades de Pointes. EP Didactic Series for Cardiology and EP Fellows, 12/19/2013, 10/8/2015.

Fellow's Programmer Night: Introduction to PPM and ICD programming. 7/17/13, 7/16/2014, 8/5/2015, 7/20/2016, 7/12/2017.

Antiarrhythmic Drugs. For Cardiology Fellows, 2/15/12, 4/5/2017

Mechanisms of Arrhythmias: Cell to Bedside. For Electrophysiology Fellows, 2/24/09, 7/27/10, 10/25/12, 9/18/2014, 12/15/2016. 2 8 2021

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Cardiac Arrhythmias: Basic Science. For Cardiology Fellows, 2/4/04, 2/8/06.

Mechanisms of Cardiac Arrhythmias. For Cardiology Fellows, 2/28/01.

Introduction to Intracardiac Electrograms. For Cardiology Fellows, 7/1/97, 3/24/99, 6/16/00, 2/14/04, 2/28/04, 2/9/05, 2/16/05, 3/2/05, 5/30/07, 9/12/07, 10/22/08, 3/18/09, 9/7/11, 1/30/13, 2/24/2016, 10/26/2016.

Permanent Pacemakers: Timing Cycles and ECG interpretation. For Cardiology Fellows, 11/24/99 (part 1) and 12/1/99 (part 2).

Cellular Mechanisms of Antiarrhythmic Drugs. For Cardiology Fellows, 6/9/99.

Supraventricular Tachycardia. For Cardiology Fellows, 12/17/96, 9/9/97.

Emergency Management of Wide Complex QRS Tachycardias. For Cardiology Fellows, 7/7/93, 7/28/94, 7/5/95, 7/3/96, 7/7/98, 7/8/99, 7/7/00.

Emergency Management of Narrow Complex QRS Tachycardias. For Cardiology Fellows, 7/7/93, 7/28/94, 7/5/96, 7/7/98, 7/8/99, 7/7/00.

Electrophysiology Emergencies. For Cardiology Fellows, 3/23/05, 7/5/06, 7/2/08, 7/15/09, 7/21/10, 7/5/11, 7/3/12, 7/8/13, 7/3/2014, 7/20/2016, 7/12/2017, 8/1/2018, 7/17/2019, 7/22/2020 (Zoom Lecture).

Management Issues in Atrial Fibrillation. For Cardiology Fellows, 9/7/93, 8/12/97.

Electrophysiology: Review for Cardiology Boards, (2 hours). For Cardiology Fellows, 11/3/95.

Housestaff:

Atrial Fibrillation and SVT. For Internal Medicine Residents, 8/16/07.

Syncope. For Internal Medicine Residents, 2/24/03

ECG/Arrhythmia Review. Internal Medicine Board Review, 5/15/00.

Atrial Fibrillation. For Internal Medicine Residents, 1/18/00, 1/10/02, 2/4/04, 5/23/11, 11/9/11, 4/9/12.

Antiarrhythmic Drugs. For Internal Medicine Residents, 5/24/11

Swan-Ganz Catheter Problems in Hemodynamics. For Internal Medicine Residents, 5/31/11, 11/16/11.

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Arrhythmia Management in the Surgical ICU. For Surgery and Anesthesia Residents, 4/15/99.

Wide Complex Tachycardia. For Internal Medicine Residents, 8/4/98, 7/8/99.

Supraventricular Tachycardia. For Internal Medicine Residents, 8/5/97.

Emergency Management of Wide and Narrow QRS Tachycardias. For Internal Medicine Residents, 7/28/94, 8/15/95, 8/1/96

ECG Conferences. For Internal Medicine Residents, 7/16/10, 8/16/10, 10/5/10, 10/8/10, 2/14/11, 3/21/11, 7/18/11, 11/8/11.

Ambulatory Care of Common Arrhythmias. For Family Practice Residents, 2/16/94, 10/4/95.

Medical Students:

Mechanisms of Cardiac Arrhythmias. InMd 5201 (2nd year medical students). 9/26/96, 9/22/97, 9/21/98, 10/11/99, 10/2/00, 10/1/01, 9/30/02, 9/29/03, 10/4/04, 10/3/05, 9/25/06, 9/29/07, 9/25/08, 9/18/09, 9/20/10, 9/19/11, 9/24/12, 9/23/2013, 9/22/2014, 9/21/2015, 9/19/2016.

Diagnosis of Cardiac Arrhythmias. InMd 5201 (2nd year medical students). 9/27/96, 9/22/97, 9/21/98, 10/11/99, 10/2/00, 10/1/01, 9/30/02, 9/29/03, 10/4/04, 10/3/05, 9/25/06, 9/29/07, 9/25/08, 9/18/09, 9/20/10, 9/19/11, 9/24/12, 9/23/2013, 9/22/2014, 9/21/2015, 9/19/2016.

Small Group sections. InMd 5201 (2nd year medical students). September-October 2008, September 2009, August/September 2019, September 2020.

Ion Channels and Arrhythmias. Clinical Correlation segment of Biochemistry, Molecular and Cellular Biology Course (1st year medical students), substitute lecture 10/11/94.

Acute Care Seminar: Management of Acute MI. For 4th year medical students, 3/24/99.

ECG Review. For 4th year medical students, 10/20/97.

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To other groups:

Cardiology Bootcamp Lectures: Fundamentals of Cardiac Electrophysiology (7/23/2020); Mechanisms of Arrhythmias: Use and Limitations of Antiarrhythmic Drugs (7/28/2020); Mechanisms of Arrhythmias: Non-

pharmacologic Approaches to Arrhythmia Management (7/29/2020). For Edwards Lifesciences (Zoom Lectures).

Antiarrhythmic Drugs for Atrial Fibrillation. For Cardiology Nurse Practitioners and Physician Assistants. 6/27/2017

Pacers, ICDs and Laser Lead Extractions. For Cardiovascular and Thoracic Surgery Fellows, 12/21/2016

The EP Study: Introduction for EP/Cath Lab Staff. For Fairview Cardiac Catheterization Laboratory Staff, 5/14/2016.

Cardiac Electrophysiology: An Overview for Dental Residents, 4/22/2014.

Cardiology for Sports Medicine. For Fellows in Sports Medicine, 1/21/09, 1/6/10, 3/9/11.

Introduction to Cardiac Disease. For Graduate Students in Dietetics, (2 hours), 4/27/92, 2/93, 11/17/93, 10/31/94, 11/29/95, 10/28/96, 11/3/97.

Management of Dysrhythmias. For Oral Surgery Fellows (Conscious Sedation/Pero 8-220) 10/9/95.

When can patients with syncope be allowed to drive?, (organized, and participated with William Fabian, M.D., David Benditt, M.D. and Laurie Miller, J.D.). For Cardiology Division, 5/2/96.

Atrial Arrhythmias. Fairview University Medical Center. Continuing education for nursing staff. Sponsored by Medtronic. 4/3/01.

EP Studies and Radiofrequency Ablation: When, Why and How? Fairview University Medical Center. Continuing education for nursing staff. Sponsored by Medtronic. 5/22/97.

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Presentations at other venues:

Atrial Fibrillation and the use of NOACs. ^{President of the Senate} American College of Cardiology, Minnesota Chapter. 5/20/2017.

EP Therapies for Sudden Cardiac Death and CHF. Fund raising symposium for Lillehei Heart Institute. Co-lecture with Dr. David Benditt. 3/20/13.

Session Chair: Arrhythmias. Design of Medical Devices Conference. Biomedical Engineering Institute, University of Minnesota. 4/18/07.

Atrial Fibrillation Update. Minnesota Academy of Family Physicians Annual Spring Refresher, 4/20/06

Heart Arrhythmias. Health Talk and You. Televised panel discussion with Dr. David Benditt, Dr. Dennis Zhu and Dr. Gregory Vercellotti (host). Taped 11/22/00.

Atrial Fibrillation. Minnesota Academy of Family Physicians Annual Spring Refresher, 4/13/00.

Introduction to Permanent Pacemakers and Implantable Cardioverter Defibrillators. Central Minnesota Heart Center and St. Cloud Hospital. Continuing education for nursing staff. 3/2/99.

Indications for Permanent Pacemaker Implantation. Pacemaker Course for Cardiology and Cardiac Electrophysiology Fellows. Medtronic Incorporated, Fridley, MN, 9/14/98.

Supraventricular Tachycardias: Differential Diagnosis and Long Term Management. Medicine Grand Rounds, VA Medical Center, Minneapolis, MN, 3/8/96.

Syncope Workshops. Lakes Area Symposium on Cardiac Care, Central Minnesota Heart Center, 9/29-9/30/95.

Antiarrhythmic Management of Atrial Fibrillation. Interstate Medical Center, Red Wing, MN, 2/23/95.

Quality Issues in the Development of the Implantable Defibrillator. Medtronic Promeon Division, 8/10/94.

Introduction to Implantable Defibrillators. Medicine Grand Rounds: Mankato Clinic, 12/20/93.

Other Educational Activities

EP Fellows Symposium. Full day course for U of M EP Fellows with emphasis on simulator experience. October 29, 2016. Organizer and lecturer (Biophysics of Ablation)

EP Fellows Symposium. Full day course for U of M EP Fellows with emphasis on simulator experience. January 31, 2015. Organizer and lecturer (Biophysics of Ablation; Case Studies in Arrhythmias)

25th Anniversary Symposium on Electrophysiology at the University of Minnesota. November 15, 2003. Chairman.

Treatment of Atrial Fibrillation. Web site development with Office of Continuing Medical Education, University of Minnesota. Completed 2000.

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Electrophysiology Conference - since 1996, organize weekly conferences including case studies, didactic lectures, journal review and guest speakers.

ECG Conferences - mentoring with Cardiology Fellows 1-2 times per month since 1996.

Developed curriculum for Cardiology Fellows during Cardiac Electrophysiology rotation, including syllabus, workbook, pre- and post-rotation examinations.

Developed curriculum for Clinical Cardiac Electrophysiology Fellowship, approved by ACGME.

INSTITUTIONAL/DEPARTMENTAL AND DIVISION ADMINISTRATIVE
RESPONSIBILITIES, COMMITTEE MEMBERSHIPS, AND OTHER ACTIVITIES

Program Director, Clinical Cardiac Electrophysiology Fellowship, University of Minnesota (to 2019)

Medical Director, Telemetry Unit, University of Minnesota Medical Center (September 2007 to 2019)

Chair, Graduate Medical Education Internal Review: Diagnostic Radiology (2009)

Chair, Graduate Medical Education Internal Review: Cytopathology (2008)

Chair, Graduate Medical Education Internal Review: Pediatric Cardiology (2004)

Member, University of Minnesota Medical Center Cardiovascular Operations Committee (formerly Cardiovascular Performance Improvement Committee, restructured January 2009)

Member, University of Minnesota Medical Center/Fairview Health Services Cardiovascular Informatics and Quality Committee (formed December 2008 to present)

Member, University of Minnesota Medical Center Patient Monitoring Committee (formed June 2009)

Member, University of Minnesota Medical Center Computerized Physician Order Entry Committee (2007-2009)

Member, Graduate Medical Education Internal Review: Cardiovascular Diseases (Adult) (2003)

Member, Cardiology Fellowship Selection and Education Committee

Education Coordinator for Division of Cardiology, Department of Internal Medicine

Member, Firm Directors Committee, Department of Internal Medicine

Member, Clinical Service Unit Board, Department of Internal Medicine

Assistant Course Director, Clinical Medicine I course on Cardiovascular Disease

PROFESSIONAL MEMBERSHIPS AND SOCIETIES

American College of Physicians, Member, June 20, 1990; Fellow 2010 (#00039719)

American College of Cardiology, Fellow, 1995 (#608156)

American Heart Association, Member (#100001434889)
Member – Council on Basic Cardiovascular Sciences
Member – Council on Clinical Cardiology

Heart Rhythm Society (formerly North American Society of Pacing and Electrophysiology), Member, August 18, 1995; Fellow May 2007 (#102232).

NASPE Training and Fellowship Committee: Task Force for Clinical Cardiac Electrophysiology Competency Requirements, Member, May 2002.

PRESENTATIONS AT INTERNATIONAL MEETINGS

Abstract Session – Co-Chair. CIED Implantation Techniques and Outcomes. Heart Rhythm Society 37th Annual Scientific Sessions, San Francisco, May 5, 2016.

Systolic dysfunction caused by electrical dyssynchrony is “always” reversible. Poster. 9th Tawara-Aschoff Symposium, Tokyo, JP, July 26-27, 2014.

Syncope in the Athlete. Panel discussion at the 15th Annual Scientific Session of the North American Society of Pacing and Electrophysiology, Nashville, TN, May 13, 1994.

Effects of catecholamines on potassium currents in ventricular myocytes. Presented to Fellowship Award Session during 14th Annual Scientific Session of the North American Society of Pacing and Electrophysiology, San Diego, CA, May 6, 1993.

Syncope accompanying vigorous exercise in young patients without overt heart disease: a manifestation of neurally-mediated syncope. Presentation in chaired poster session at the 14th Annual Scientific Session of the North American Society of Pacing and Electrophysiology, San Diego, CA, May 7, 1993.

Adenosine and acetylcholine reduce isoproterenol induced increases in delayed potassium currents in isolated guinea pig ventricular myocytes. Presentation in poster session at 5th International Symposium on Cardiovascular Pharmacotherapy, Minneapolis, MN, August 18, 1993.

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Benditt DG, Zhang Y, Hansen R, Sakaguchi S, Remole SC, Adler SW, et al. Seemingly inappropriate QT interval changes during head-up tilt testing: a marker of imminent neurally-mediated syncope. PACE. 1993;16:861.

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