

Daniel Nathan Weiss, MD

dweiss@bmhtllc.com

EDUCATION

Mount Sinai School of Medicine, MD, 1987, with distinction in research

Princeton University, BSE - Electrical Engineering and Computer Science, 1983, cum laude

MEDICAL EXPERIENCE

Clinical Cardiac Electrophysiologist, 1994 - present

LECTURES/PRESENTATIONS/PANELIST

National and international conferences, including American College of Cardiology, American Heart Association, Heart Rhythm Society, American Telemedicine Association, International Conference for Innovations (ICI) in Cardiovascular Systems, EuroPCR, Heart-Brain Society, Eastern Student Research Forum

CONSULTING/BUSINESS EXPERIENCE

Bongiovi Medical and Health Technologies: Chief Medical Officer, 2012 – present

Setting medical direction of product development, developing medical research program, research protocol writing and overseeing trials, FDA relations, physician relations, investor relations, intellectual property/patent work with legal counsel; overseeing numerous patent approvals and FDA approvals

Charles E. Schmidt College of Medicine at Florida Atlantic University: 2017 – present

Clinical Affiliate Assistant Professor of Medicine. Teaching medical students and directing research

Dermaflow, Inc: Chief Medical Officer 2012 – present. Setting medical direction of product development, developing medical research program, research protocol writing and overseeing trials, FDA relations, physician relations, investor relations, intellectual property/patent work with legal counsel.

Weiss Consulting Groups, Inc.: Founder and President, 1998 - present

Providing medical and business consulting to investment, legal, and business firms

HBR Labs, Inc.: Co-Founder, 2005 – present

Provider of web-browser based collaboration software.

Enospace, Ltd: Medical Director 2013 – 2015 (currently advisor). Setting medical direction

of product development including working with engineering team, developing medical research program, research protocol writing and overseeing trials, FDA relations, physician relations, investor relations, intellectual property/patent work with legal counsel.

Endocross, Ltd: Director of Medical Education 2012 – 2014. Working on development of next generation product, clinical trials protocol development, educating and training potential physician to be both device users and clinical trial investigators.

Vicor Technologies, Inc.: Chief Medical Officer, 2003 – 2012

Setting medical direction of product development, developing medical research program, research protocol writing and overseeing trials, FDA relations, physician relations, investor relations, intellectual property/patent work with legal counsel; oversaw numerous patent approvals and FDA approvals

ALDA & Associates, International: Principal and Chief Medical Officer, 2003 – present

Provides consulting to startups, including funding, executive team emplacement, patent/legal work, and CRO-related activity

CGN & Associates: Chief medical consultant, 1996 – 2000

Medical business development, member of Board of Directors

Bioline Pharmaceuticals: Cardiology consultant, 2007-2009

Study protocol design, feasibility, regulatory issues

Inotek Pharmaceuticals, Inc.: Chief cardiology consultant, 2004-2007

Clinical trial protocol design, ECG reader for all studies

Medtronic: consultant, including Cardiac Rhythm Management team for “Vision 2010”, device design interface, and implementation

Guidant (now Boston Scientific): consultant for device design, interface, and implementation

St. Jude Medical: consultant medical device design, interface, and implementation

Heart Rhythm Society: advisor to and member of Continuing Medical Education Committee and Web Site Committee

HONORS

Medical Degree received with Distinction in Research, Mount Sinai School of Medicine, 1987
Nathan A. Selz Award for Research in Cardiovascular and Renal Diseases, Mount Sinai School of Medicine, 1986

Cum Laude, Princeton University, 1983

TRAINING

Electrophysiology Fellowship, University of Maryland Hospital, Baltimore, MD, 1993 - 1994

Cardiology Fellowship, University of Maryland Hospital, Baltimore, MD, 1990 - 1993

Internal Medicine Residency, Mount Sinai Hospital, New York, NY, 1987 - 1990

MEDICAL BOARD CERTIFICATIONS

Diplomate, Cardiac Electrophysiology, 1994, recertified 2004

Diplomate, Cardiovascular Diseases, 1993, recertified 2003

Diplomate, American Board of Internal Medicine, 1990

LICENSURE

Maryland, New York, Florida

CLINICAL SKILLS

Electrophysiologic studies (VT, SVT), radiofrequency ablations, standard and biventricular pacemaker and ICD implantation, tilt table testing, autonomic in heart failure

Appendix

BIBLIOGRAPHY

* Presented at National or Regional Scientific Sessions

PAPERS

Regional Wall Stress in Normal and Abnormal Hearts Using Finite-Element Analysis, Weiss DN, Shinnar M, Teichholz LE, Klig V, Goldman M, *Computers in Cardiology*, 1986:95*

Physiological Roles of the Sodium/Calcium Exchanger in Nerve and Muscle, Blaustein MP, Goldman WF, Fontana G, Krueger BK, Santiago EM, Steele TD, Weiss DN, Yarowsky PJ, *Annals of the New York Academy of Sciences*, 1991, 639:254-274

Paternalistic Attitudes and Moral Reasoning Among Physicians at a Large Teaching Hospital, Silver A, Weiss DN, *Academic Medicine*, Jan 1992, 67(1):62-63

Regulation of vascular smooth muscle contractility: Roles of the sarcoplasmic reticulum (SR) and the sodium/calcium exchanger, Blaustein MP, Ambesi A, Bloch RJ, Goldman WF, Juhaszova M, Lindenmayer GE, Weiss DN, *Japanese Journal of Pharmacology*, 1992, 58(Suppl 2):107P-114P*

Nanomolar ouabain augments caffeine-evoked contractions in rat arteries, Weiss DN, Podberesky DJ, Heidrich J, Blaustein MP, *American Journal of Physiology (Cell)*, 1993 Nov; 265(5 Pt 1):C1443-8*

Overdrive pacing for atrial flutter, Peters RW, Weiss DN, Carliner NH, Feliciano Z, Shorofsky SR, Gold MR. *American Journal of Cardiology*, 1994 Nov 15;74(10):1021-3

Management of Patients with Tiered-Therapy Defibrillators, Luceri RM, Zilo P, Weiss DN, *Primary Cardiology*, 1995, 21(3): 24-33.

The implantable cardioverter defibrillator: modern implantation techniques and their impact on outcomes, Luceri RM, Zilo P, Weiss DN, *Archives des Maladies du Coeur et des Vaisseaux*, 1996, 89(I): 129-33.

Rate-responsive pacing mimicking ventricular tachycardia, Weiss DN, Gold MR, Peters RW, *The Journal of Invasive Cardiology*, 1996, 8(5): 228-230.

Should Unipolar Pacemaker Leads be Banned? Lessons from Pacemaker/Implantable Cardioverter Defibrillator Interactions. Weiss, DN, Zilo P, Luceri RM, Habal SM, David IB, *PACE* 1997, 20(part I):237-9.

The implantable cardioverter-defibrillator: modern implantation techniques and their impact on outcomes. Luceri RM, Zilo P, Weiss DN. *In Practical Management of Cardiac Arrhythmias*,

El-Sherif N and Lekieffre J eds. Futura Publishing Co., Armonk, NY 1997.

Induction of atrial fibrillation with low-energy defibrillator shocks in patients with implantable cardioverter defibrillators. Florin TJ, Weiss DN, Peters RW, Shorofsky SR, Gold MR. *American Journal of Cardiology*, 1997 80(7):960-2.

Pre-discharge arrhythmia induction testing of implantable cardioverter-defibrillators may be unnecessary in selected cases. Weiss, DN, Zilo P, Luceri RM. *American Journal of Cardiology* 1997; 80(12): 1562-5.

Spurious internal cardioverter defibrillator shocks due to electric current leakage. Weiss DN, Luceri RM, Zilo P, Haisty K, Brownstein SL, Resh WH, Kucharski AG, Matista J, Hinds C, Smith L. *Journal of the American College of Cardiology*, in press.

The Effect of Delivered Energy on Defibrillation Shock Impedance. Weiss DN, Shorofsky SR, Peters RW, Gold MR. *Journal of Interventional Cardiac Electrophysiology*, 1998; 2:273-277.

Nonlinear analysis of the heartbeats in public patient ECGs using an automated PD2i algorithm for risk stratification of arrhythmic death, Skinner JE, Anchin JM, Weiss DN. *Therapeutics and Clinical Risk Management*, 2008:4(2) 549–557

Risk stratification for arrhythmic death in an emergency department cohort: a new method of nonlinear PD2i analysis of the ECG, Skinner JE, Meyer M, Dalsey WC, Nester BA, Ramalanjaona G, O'Neill BJ, Mangione A, Terregino C, Moreyra A, Weiss DN, Anchin JM, Geary U, Taggart P. *Therapeutics and Clinical Risk Management*, 2008:4(4) 689–697

Exploration of heart-rate complexity to determine the need for lifesaving interventions in combat casualties. Batchinsky AI, Salinas J, Skinner JE, BS, Weiss DN, Wade C, Holcomb J, Cancio LC. *Journal of Critical care*. June 2008, 23(2):265-266.*

New Measures of Heart-Rate Complexity: Effect of Chest Trauma and Hemorrhage
Batchinsky, AI, Skinner JE, Necsoiu C, Jordan BS, Weiss DN, Cancio LC. *The Journal of Trauma*. May 2010, 68(5): 1178 - 1185.

Characterizing the heart-brain connection using non-linear mathematics. Weiss DN. *Cardiology Journal* 2010. 17(3):316-8.

Nonlinear PD2i heart rate complexity algorithm detects autonomic neuropathy in patients with type 1 diabetes mellitus, Skinner JE, Weiss DN, Anchin JM, Turianikova, Tonhajzerova I, Javorkova J, Javorka K, Baumert M, Javorka M. *Clinical Neurophysiology* 2011; 122:1457–1462.

BOOKS AND CHAPTERS

New developments in non-thoracotomy leads for implantable cardioverter defibrillators. Luceri RM, Zilo, P, Weiss, DN. In *Clinical Pacing* 1994. Ed: Santini M. Futura Publishing Co., Armonk, NY. 1994. pp 69-78.

The implantable cardioverter-defibrillator modern implantation techniques and their impact on outcomes. Luceri RM, Zilo P, Weiss DN, In: *Practical Management of Cardiac Arrhythmias*, Eds: El-Sherif N, Lekieffre J. Futura Publishing Co., Armonk NY, 1997.

ABSTRACTS

Paternalistic Attitudes and Moral Reasoning Among Internists at a Teaching Hospital, Silver, A, Weiss, D, *Clinical Research*, 1989, 37(2):822a*

Echocardiographic Tissue Signatures Imaging: Use of an R-F Signal Amplitude Statistic, Teichholz LE, Klig V, Shao Y, Richman S, Weiss DN, *Circulation*, 82(4):III-16*

Role of Na⁺/Ca²⁺ Exchange in Control of SR Calcium in Vascular Smooth Muscle, Weiss DN, Blaustein MP, *Circulation*, 84:II-562*

Inverse Relationship of Defibrillation Impedance and Delivered Energy, Weiss DN, Feliciano Z, Tummala RV, Shorofsky SR, Foster AH, Gold MR, *Journal of the American College of Cardiology*, February 1994 (special issue): 87A*

Chronic Changes in Defibrillation Parameters With a Transvenous Lead System, Tummala RV, Riggio DR, Weiss DN, Feliciano Z, Shorofsky SR, Gold MR, *Journal of the American College of Cardiology*, February 1994 (special issue): 112A*

Acute Effects of Defibrillation on Endocardial Rate-Sensing Leads in Implantable Cardioverter-Defibrillator Systems, Weiss DN, Feliciano Z, Tummala RV, Shorofsky SR, Foster AH, Gold MR, *PACE*, April 1994, 17(4):II-800*

Inverse Relationship of Defibrillation Impedance and Delivered Energy, Weiss DN, Feliciano Z, Tummala RV, Shorofsky SR, Foster AH, Gold MR, *Circulation*, October 1994, 90:4, part 2, I-177*

A Comparison of D-Sotalol and D,L-Sotalol for Treatment of Ventricular Tachycardia, Weiss DN, Tummala RV, Feliciano Z, Peters RW, Shorofsky SR, Froman DM, Gold MR, *Circulation*, October 1994, 90:4 part 2, I-544*

The Effects Of Defibrillation on Endocardial Rate-Sensing Leads, Rangarao V. Tummala, Weiss DN, Feliciano Z, Shorofsky SR, Gold MR, *Circulation*, October 1994, 90:4, part 2, I-

498*

Induction of Atrial Fibrillation with Low Energy Shocks, Todd J. Florin, Weiss DN, Feliciano Z, Tummala RV, Shorofsky SR, Peters RW, Gold MR, *Circulation*, October 1994, 90:4, part 2, I-541*

Detection of Tachyarrhythmias After a Failed Shock in a Third Generation ICD with Automatic Sensitivity Tracking, Luceri RM, Zilo P, Weiss DN, Kucharski G, Fitts S, *PACE*, September 1995, 18(9):II-1765

Inappropriate Implantable Cardioverter-Defibrillator Shocks for Current Leak, Weiss DN, Platt SB, Zilo P, Luceri RM, *PACE* April 1995, 20(4 part II): 1161*

Effect of Chest Trauma and Hemorrhage on New Measures of Heart-Rate Complexity. Batchinsky AI, Skinner JE, Necsoiu C, Jordan BS, Weiss DN, Cancio LC.. Presented at the Society of Critical Care Medicine Annual Meeting in Honolulu, HI, February 2-7, 2008.*

Does Heart-Rate-Complexity Analysis Work on Real-World Data? The Point Correlation Dimension of the Heart Rate and PreHospital Life-Saving Interventions. Batchinsky A, Skinner J, Salinas J, Necsolu C, Nguyen R, Waker K, Anchin J, Weiss, D, Jones J, Holcomb J, Cancio L. *Circulation*, Nov 2009; 120: S1441 - S1442*

Blood Donation Causes Observable Changes in Heart Rate Variability Pattern, Jett P, Weiss DN, Anchin J, Skinner JE, Parsell DE, Hughes J. *Transfusion*, Sep 2010; 50(Supplement s2): 47A*

Aerobic Exercise Training Improves Heart Rate Variability, as Reflected by PD2i, in Individuals with Low PD2i. Weiss DN, Goulopoulou S, Skinner JE, Anchin JM, Kanaley JA. *Circulation* 2011, *in press*.