

BRUCE L. WILKOFF, M.D.

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 Cleveland, Ohio 44195
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CURRENT POSITION:**Staff Cardiologist****Deb Family Endowed Chair in Lead Management**

Sydell and Arnold Miller Family Heart, Vascular, and Thoracic Institute
 Robert and Suzanne Tomsich Department of Cardiovascular Medicine
 Section: Cardiac Pacemakers and Electrophysiology
 Cleveland Clinic, Cleveland, Ohio

July 1987 - Present

Professor of Medicine

Cleveland Clinic Lerner College of Medicine of
 Case Western Reserve University
 Cleveland Clinic, Cleveland, Ohio

January 2005 – Present

Director: Cardiac Pacing and Tachyarrhythmia Devices

July 1994 – Present

Associate Section Head: Pacing and Electrophysiology Section

October 2007 – 2017

Institute Medical Information Officer (IMIO)

Sydell and Arnold Miller Family Heart, Vascular, and Thoracic Institute
 Cleveland Clinic, Cleveland, Ohio

May 2010 – February 2017

Director, Cardiovascular Computer Unit

July 1991 - 1996

Acting Director: HVI Information Systems & Services

October 2008 – May 2010

Medical Director of Clinical Electrophysiology Research

July 2000 - 2005

Associate Professor of Internal Medicine

The Ohio State University/The Cleveland Clinic Foundation
 Health Science Center, Cleveland, Ohio

March 1992 – 2004

MEDICAL LICENSURE:

Ohio	# 35047309-W	04/7/82 – 10/01/2023
Michigan	# 4301079228	01/31/02 – 01/08/2025
Illinois	# 036-106186	01/31/02 – 07/31/2023
New York	# 226966	11/2/02 – 11/30/2023

DEA # AW1890171 Through - 5/31/2024

EDUCATION

- **Northwestern University Technological Institute**, Evanston, Illinois,
B.S. Biomedical Engineering – June, 1976
- **Ohio State University College of Medicine**, Columbus, Ohio
M.D. – June, 1979

POST GRADUATE AFFILIATIONS:

Clinical Associate
Department of Cardiology
Section of Cardiac Pacing and Electrophysiology
The Cleveland Clinic
July 1986 - July 1987

Research Fellowship
Cardiac Electrophysiology and Pacemakers
Ohio State University Hospital and School of Veterinary
Medicine
Columbus, Ohio
1984 - 1986

Cardiology Fellowship
Case Western Reserve University, University Hospitals of
Cleveland
Cleveland, Ohio
1982 - 1984

Internal Medicine Residency
Case Western Reserve University, University Hospitals of
Cleveland
Cleveland, Ohio
1979 - 1982

HONORS:

Phi Eta Sigma
Beta Mu Epsilon
Tau Beta Pi

CERTIFICATION:

Diplomat, National Board of Medical Examiners, 1980

Diplomat, American Board of Internal Medicine, Internal
Medicine Specialty Examination, 1982

Diplomat, National Board of Medical Examiners, Cardiology

Subspecialty Examination, 1984
 NASPExAM, Testamur, December 1986-2006
 International Board of Heart Rhythm Examiners
 Certified Cardiac Device Specialist – 2006-Present

CITI Research Certification, 2002, 2010, 2013, 2016, 2019,
 2022-2025
 Investigator Human Research Education & GCP Training Review
 2019, 2022-2025
 BLW Provider Certification, March 2022-March 2024
 ACLS Provider Certification, March 2022-March 2024

PROFESSIONAL AFFILIATIONS:

American College of Cardiology: FACC	1989 – present
NCDR ICD Steering Committee	2011 - 2015
ACC Coding and Nomenclature Committee	2001 – 2010
ACC Program Committee	2003 – 2005
ACC EP Database Subcommittee	1997 – 2000
Task Force on Cardiovascular Relative Values:	2005 – 2008
American Heart Association:	1986 – present
Council on Clinical Cardiology: FAHA	2007 – present
Northeast Ohio Affiliate Student Selection	1995 – 1998
Northeast Ohio Affiliate Fellowship Review	1988 – 1993
American Medical Association:	2007 – present
EPIC:	
Cardiology Physician Advisory Council	2013 - 2015
Heart Rhythm Society (formerly NASPE)	1986 – present
Fellow – FHRS	2006 – present
Ethics Committee Chairman	2022 - present
Ethics Committee Vice Chairman	2019 - 2022
Data Standards and Interoperability WG	2017- 2022
Ethics Committee Task Force	2019 – 2020
HRS COVID-19 Task Force	2020 – 2020
Nominations Committee	2017 – 2018
Immediate Past President	2012 – 2013
President	2011 – 2012
President Elect	2010 – 2011
1 st Vice President	2009 – 2010
Annual Sessions Program Chairman	2010 – 2011
2 nd Vice President	2008 – 2009
Annual Sessions Abstract Chairman	2009 – 2010
Executive Committee	2008 – 2013
Executive Committee Chair	2011 – 2012

President's Council Chair	2011 – 2012
President's Council	2012 – 2013
Board of Trustees:	2008 – 2014
	2004 – 2007
Board of Trustees Chair	2011 – 2012
Compensation Subcommittee Chair	2011 – 2012
Compensation Subcommittee	2010 – 2013
Finance Committee	2011 – 2013
Finance Committee Chairman	2011 – 2012
Workforce Taskforce Chairman	2009 – 2011
Health Policy Committee:	2009 – 2013
	2002 – 2008
Chairman:	2006 – 2008
Vice Chairman:	2005 – 2006
Research Subcommittee:	1994 – 2003
Governance Committee Chairman	2012 – 2013
Governance Committee	2011 – 2013
Nominations Subcommittee Chairman	2012 – 2013
Health Information Technology committee	2012 – 2015
Audit Committee	2013 – 2014
Development Advisory Committee	2015 - 2017
History Committee (Chair)	2014 – 2017
Coding Subcommittee/Task Force:	2002 – 2007
Liaison to:	
ACC Coding and Nomenclature:	2002 – 2010
ACC Cardiovascular Relative Values	2005 – 2008
Program Committee:	2006 – 2011
	2001 – 2005
	1996 – 1999
Advisory Council:	1989 – 1994
Co-chair:	1991 – 1992
Chairman:	1992 – 1994
Fellowship committee:	1993 – 1998
Database committee:	1994 – 1999
Membership Credentials Task Force:	1994 – 1998
Membership Development:	1996 – 1998
Web Site Policy & Technical Committee:	1999 – 2003
Web Site Technical Advisory Sub Committee:	1996 - 1999
Council of Associated Professionals (CAP):	
Executive Committee:	1996 - 1999
Database Committee:	1996 - 1999
AD HOC Credentialing:	1996 - 1999
Communications Committee:	1996 - 1999

Continuing Education:	1996 - 1999
Function and Organization:	1996 - 1999
Membership Committee:	1996 - 1999
Nominating Committee:	1996 - 1999

NAMADD

(North American Multicenter Antiarrhythmia Device Database)

Board of Directors:	1998 – 2000
DATA Elements Subcommittee Chair:	1997 – 2000

IBHRE – International Board of Heart Rhythm Examiners

(formerly NASPEXAM):

Writing Committee:	1988 –present(2024)
Governance Committee Chair	2013 - 2014
Continuous Learning Task Force	2021

IBHRE-C3 Committee **2021- present**

Central Society of Clinical Research:	1997 – 2002
Heart Failure Society of America	2003 – 2015
Program Committee:	2003 – 2005

Asian Pacific Heart Rhythm Society **2009 – present****European Heart Rhythm Society** **2010 – present**

Heart Rhythm Foundation Board Acting Chair	2011 – 2012
American College of Radiology	
MR Safety Committee	2009 – 2015

JOURNAL/GRANT REVIEWER:

American Heart Journal
 American Journal of Cardiology
 American Journal of Medical Science
 Annals of Thoracic Surgery
 British Heart Foundation
 Circulation
 Cleveland Clinic Journal of Medicine
 Europace
 European Heart Journal
 European Journal of Cardiac Pacing and Electrophysiology
 Follow-up Forum
 Heart
 Heart Rhythm
 Heart Rhythm Case Reports
 Journal of the American College of Cardiology
 Journal of the American Medical Association
 Journal of Cardiovascular Electrophysiology
 Journal of Cardiovascular Translational Research
 Journal of Electrocardiology

Journal of Interventional Cardiovascular Electrophysiology
Mayo Clinic Proceedings
New England Journal of Medicine
Heart Failure Reviews
Pacing and Clinical Electrophysiology
University Grants Committee, Research Grants Council of Hong Kong

EDITORIAL BOARD:

Associate Editor 2020- present: Heart Rhythm
International Associate Editor 2015-present – Journal of Arrhythmia
Senior Editorial Assistant: 2019-present - JACC Case Reports
Associate Editor (2015-2020) - Pacing and Clinical Electrophysiology
Heart Rhythm Case Reports
International Journal of Arrhythmia (Korean Heart Association)
Journal of Cardiovascular Electrophysiology
Journal of Interventional Electrophysiology
Circulation
Circulation A&E
World Journal of Cardiology
Cardiology Today

RESEARCH GRANTS:

Diuretic effects on rhythm in chronic ischemic canine model - Fellowship and Grant #84-41; Central Ohio Chapter of the American Heart Association, 1984-1985

Repetitive noninvasive electrophysiologic testing in several postures - Fellowship and Grant #C-85-51; Central Ohio Chapter of the American Heart Association, 1985-1986

UNITED STATES PATENTS:

1. December 2, 2014 No. 8,903,491 Cardiopulmonary functional status assessment via metabolic response detection by implantable cardiac device.
2. September 17, 2013 No. 8,538,525 Cardiopulmonary functional status assessment via metabolic response detection by implantable cardiac device.
3. February 14, 2012 No. 8,116,869 Cardiopulmonary functional status assessment via metabolic response detection by implantable cardiac device.

4. June 17, 2008. No. 7,389,143. Cardiopulmonary functional status assessment via metabolic response detection by implantable cardiac device.
5. February 3, 2004. No. 6687544. System and method for determining safety alert conditions for implant able medical devices.
6. December 4, 2001. No. 6,327,501 B1. System and method for determining safety alert conditions for implantable medical devices.
7. February 20, 2001, No. 6,192,273, Non-programmable automated heart rhythm classifier. (tracking number 2008-0021)
8. March 16, 1999, No. 5,882,352. Automatic Adjustment of Detection Rate Threshold in an Implantable Antitachycardia Therapy Device.
9. August 15, 1995, No. 5,441,524. Energy Efficient Multiple Sensor Cardiac Pacemaker.

MANUSCRIPTS: (<https://pubmed.ncbi.nlm.nih.gov/?term=Bruce+Wilkoff>)

1. Rickard J, Gold MR, Patel D, **Wilkoff BL**, Varma N, Sinha S, Albert C, Finet JE, Tang WHW, Marine J, Spragg D. Long-term outcomes in nonprogressors to cardiac resynchronization therapy. Heart Rhythm 2022.
2. Patel D, Rao A, Friedman PA, Deshmukh AJ, Lande J, Murphy JA, Brown ML, Lexcen DR, **Wilkoff BL**. New atrial arrhythmia occurrence in single chamber implantable cardioverter defibrillator patients: A real-world investigation. J Cardiovasc Electrophysiol 2022.
3. Hayashi K, Koyama J, Okumura K, Abe H, **Wilkoff BL**. Inappropriate mode switch and unwarranted right ventricular pacing during atrial fibrillation: Paradoxical atrial undersensing. J Arrhythm 2022;38:1102-1105.
4. Anderson K, Greenlee K, Matteo M, **Wilkoff B**. Dofetilide dose reductions and discontinuation in obese compared to non-obese patients. J Cardiovasc Pharmacol 2022.
5. Patel D, Vatterott P, Piccini J, Epstein LM, Hakmi S, Syed I, Koweek LM, Bolen M, Schoenhagen P, Tarakji KG, Francis N, Shao M, **Wilkoff BL**. Prospective Evaluation of the Correlation Between Gated Cardiac Computed Tomography Detected Vascular Fibrosis and Ease of Transvenous Lead Extraction. Circ Arrhythm Electrophysiol 2022:e010779.

6. Simsolo E, **Wilkoff BL**. A Shocking Case of Pacemaker Lead Perforation. JACC Case Rep 2022;4:1203-1205.
7. Hayashi K, Tsurugi T, Koyama J, Okumura K, Abe H, **Wilkoff BL**. Successful Defibrillation by Modifying from Fixed Tilt to Tuned Duration Defibrillation Waveform: When less is more? Heart Rhythm Case Reports, doi.org/10.1016/j.hrcr.2022.07.019
8. Wijesuriya N, Elliott MK, Mehta V, Behar JM, Niederer S, **Wilkoff BL**, Rinaldi CA. Transvenous Lead Extraction in Conduction System Pacing. Frontiers in Physiology 13:993604. doi: 10.3389/fphys.2022.993604
9. Tarakji KG, Korantzopoulos P, Philippon F, Biffi M, Mittal S, Poole JE, Kennergren C, Lexcen DR, Lande JD, Hilleren G, Seshadri S, **Wilkoff BL**. Risk factors for hematoma in patients undergoing cardiac device procedures: A WRAP-IT trial analysis. Heart Rhythm O2, June 15, 2022 .
10. Patel D, Kumar A, Moennich LA, Trulock K, Nemer DM, Donnellan E, Il'Giovine ZJ, Martyn T, Callahan TD, Hussein AA, Tarakji KG, Kanj M, Cantillon DJ, Baranowski B, Starling RC, Tang WHW, Wazni OM, Varma N, **Wilkoff BL**, Rickard J. Cardiac resynchronisation therapy in anthracycline-induced cardiomyopathy. Heart 2022;108:274-278.
11. **Wilkoff BL**, Sterns LD, Katcher MS, Upadhyay G, Seizer P, Kang C, Rhude J, Davis KJ, Fischer A. Novel ventricular tachyarrhythmia detection enhancement detects undertreated life-threatening arrhythmias. Heart Rhythm O2 2022;3:70-78.
12. Tarakji KG, Patel D, Krishnaswamy A, Hussein A, Saliba W, **Wilkoff BL**, Wolski K, Svensson L, Wazni OM, Kapadia SR. Bradyarrhythmias detected by extended rhythm recording in patients undergoing transcatheter aortic valve replacement (Brady-TAVR Study). Heart Rhythm 2022;19:381-388.
13. Siddiqi N, Tchou P, Niebauer MJ, **Wilkoff BL**, Varma N. Influence of “high” defibrillation thresholds on patient survival and impact of system modification. J Cardiovasc Electrophysiol. 2022;33:234-240.
14. Poole JE, Swerdlow CD, Tarakji KG, Mittal S, Ellenbogen KA, Greenspon AJ, Kennergren C, Philbert BT, Moore J, Jones RC, Schaller RD, Hansalia R, Simmers T, Mihalcz A, DeBus B, Lexcen DR, Gunderson B, **Wilkoff BL**. Clinical performance of implantable cardioverter-defibrillator lead monitoring diagnostics. Heart Rhythm 2022;19:363-371.
15. Tarakji KG, Krahn AD, Poole JE, Mittal S, Kennergren C, Biffi M, Korantzopoulos P, Dallaglio PD, Lexcen DR, Lande JD, Hilleren G, Holbrook R, **Wilkoff BL**. Risk Factors

for CIED Infection After Secondary Procedures: Insights From the WRAP-IT Trial. *JACC Clin Electrophysiol* 2022;8:101-111.

16. Tarakji KG, Korantzopoulos P, Philippon F, Biffi M, Mittal S, Poole JE, Kennergren C, Lexcen DR, Lande JD, Seshadri S, **Wilkoff BL**. Infectious consequences of hematoma from cardiac implantable electronic device procedures and the role of the antibiotic envelope: A WRAP-IT trial analysis. *Heart Rhythm*. 2021 Dec;18(12):2080-2086. doi: 10.1016/j.hrthm.2021.07.011. Epub 2021 Jul 17. PMID: 34280568
17. Bakaeen, F. G., M. Gaudino, G. Whitman, T. Doenst, M. Ruel, D. P. Taggart, J. M. Stulak, U. Benedetto, A. Anyanwu, J. Chikwe, B. Bozkurt, J. D. Puskas, S. C. Silvestry, E. Velazquez, M. S. Slaughter, P. M. McCarthy, E. G. Soltesz, M. R. Moon, Committee American Association for Thoracic Surgery Cardiac Clinical Practice Standards, and Experts Invited (Deepak Bhatt, Jerry Estep, Roxana Mehran, Hirukuni Arai, Daniel Goldstein, Walter J. Gomes, Michael Halkos, Ki-Bong Kim, Craig Selzman, Nicholas G. Smedira, Miguel Sousa Uva, Lars G. Svensson, James Tatoulis, Michael Z. Tong, Marco Zenati, **Bruce Wilkoff**): The American Association for Thoracic Surgery Expert Consensus Document: Coronary artery bypass grafting in patients with ischemic cardiomyopathy and heart failure, *J Thorac Cardiovasc Surg*, 162: 829-50 e1.
18. Sharma AD, **Wilkoff BL**, Richards M, Wold N, Jones P, Perschbacher D, Olshansky B. Lower rate limit for pacing by cardiac resynchronization defibrillators: Should lower rate programming be reconsidered? *Heart Rhythm* 2021;18:2087-2093.
19. Boriani G, Kennergren C, Tarakji KG, Wright DJ, Ahmed FZ, McComb JM, Goette A, Blum T, Biffi M, Green M, Shore J, Carion PL, **Wilkoff BL**. Cost-Effectiveness Analyses of an Absorbable Antibacterial Envelope for Use in Patients at Increased Risk of Cardiac Implantable Electronic Device Infection in Germany, Italy, and England. *Value Health* 2021;24:930-938.
20. Boriani G, Vitolo M, Wright DJ, Biffi M, Brown B, Tarakji KG, **Wilkoff BL**. Infections associated with cardiac electronic implantable devices: economic perspectives and impact of the TYRX antibacterial envelope. *Europace* 2021;23:iv33-iv44.
21. Sharma AD, Richards M, Olshansky B, Wold N, Jones P, Perschbacher D, **Wilkoff BL**. Heart rate score, a measure related to chronotropic incompetence in pacemaker patients. *Heart Rhythm O2* 2021;2:124-131.
22. Callahan TD, Tarakji KG, **Wilkoff BL**. Antibiotic eluting envelopes: evidence, technology, and defining high-risk populations. *Europace* 2021;23:iv28-iv32.
23. Hill TE, Kiehl EL, Shrestha NK, Gordon SM, Pettersson GB, Mohan C, Hussein A, Hussain S, Wazni O, **Wilkoff BL**, Menon V, Tarakji KG. Predictors of permanent

- pacemaker requirement after cardiac surgery for infective endocarditis. *Eur Heart J Acute Cardiovasc Care* 2021;10:329-334.
24. Patel D, Kumar A, Black-Maier E, Morgan RL, Trulock K, Wilner B, Nemer D, Donnellan E, Tarakji KG, Cantillon DJ, Varma N, Saba SF, Al-Khatib SM, **Wilkoff BL**, Rickard JW. Cardiac Resynchronization Therapy With or Without Defibrillation in Patients With Nonischemic Cardiomyopathy: A Systematic Review and Meta-Analysis. *Circ Arrhythm Electrophysiol*. 2021 Jun;14(6):e008991. doi:10.1161/CIRCEP.120.008991. Epub 2021 May 17. PMID:br 33999647
25. **Wilkoff BL**, Donnellan E, Himes A, Ben Johnson W, Haddad T, Lulic T, Lexcen DR, Crossley GH, 3rd. In vitro modeling accurately predicts cardiac lead fracture at 10 years. *Heart Rhythm* 2021;18:1605-1612.
26. Mittal S, **Wilkoff BL**, Poole JE, Kennergren C, Wright DJ, Berman BJ, Riggio D, Sholevar DP, Martinez-Arraras J, Moubarak JB, Schaller RD, Love JC, Pickett RA, Philippon F, Eldadah Z, Lande JD, Lexcen DR, Holbrook R, Tarakji KG. Low-temperature electrocautery reduces adverse effects from secondary cardiac implantable electronic device procedures: Insights from the WRAP-IT trial. *Heart Rhythm* 2021;18:1142-1150.
27. Kocyigit D, Abozeed M, Kwon DH, Flamm SD, **Wilkoff BL**, Jellis CL. Predictors of Cardiac Implantable Electronic Device Artifact on Cardiac MRI: The Utility of a Device Related Score. *Heart Lung Circ*. 2021;30:1348–1355.
28. Link MS, Sullivan RM, Olshansky B, Cannom D, Berul CI, Hauser RG, Heidbuchel H, Jordaens L, Krahn AD, Morgan J, Patton KK, Saarel EV, **Wilkoff BL**, Li F, Dziura J, Brandt C, Barth C, Lampert R. Implantable Cardioverter Defibrillator Lead Survival in Athletic Patients. *Circ Arrhythm Electrophysiol*. 2021 Mar;14(3):e009344. doi: 10.1161/CIRCEP.120.009344. Epub 2021 Mar 16. PMID: 33724879
29. Nemer DM, Patel DR, Madden RA, **Wilkoff BL**, Rickard JW, Tarakji KG, Varma N, Hussein AA, Wazni OM, Kanj M, Baranowski B, Cantillon DJ. Comparative analysis of procedural outcomes and complications between de novo and upgraded cardiac resynchronization therapy. *JACC Clin Electrophysiol*. 2021;7:62-72
30. Sohail MR, Corey GR, **Wilkoff BL**, Poole JE, Mittal S, Kennergren C, Greenspon AJ, Cheng A, Lande JD, Lexcen DR, Tarakji KG. Clinical presentation, timing, and microbiology of CIED infections: An analysis of the WRAP-IT trial. *JACC Clin Electrophysiol*. 2021;7:50-61

31. Rickard J, Patel D, Park C, Marine JE, Sinha S, Tang WHW, Varma N, **Wilkoff BL**, Spragg D. Long-term outcomes in patients with a left ejection fraction $\leq 15\%$ undergoing cardiac resynchronization therapy. *JACC Clin Electrophysiol*. 2021;7:36-46
32. Elshazly MB, **Wilkoff BL**, Tarakji K, Wu Y, Donnellan E, Abi Khalil C, Asaad N, Jaber W, Wazni O, Cho L. Exercise Ventricular Rates, Cardiopulmonary Exercise Performance, and Mortality in Patients With Heart Failure With Atrial Fibrillation. *Circ Heart Fail*. 2021 Feb;14(2):e007451. doi: 10.1161/CIRCHEARTFAILURE.120.007451. Epub 2021 Jan 22. PMID: 33478244
33. Callahan TD, **Wilkoff BL**. Entrapped leads after transcatheter tricuspid valve replacement. *JACC Cardiovasc Interv*. 2020;13:2815.
34. Filippatos G, Lu X, Tsintzos SI, Gold MR, Mullens W, Birnie D, Hersi AS, Kusano K, Leclercq C, Fagan DH, **Wilkoff BL**. Economic implications of adding a novel algorithm to optimize cardiac resynchronization therapy: Rationale and design of economic analysis for the adaptresponse trial. *J Med Econ*. 2020:1-8.
35. l'Giovine ZJ, Patel D, Kumar A, Trulock K, Ann Moennich L, Donnellan E, Laczay B, Shah NP, Tang W, Starling RC, Wazni OM, Tarakji KG, Cantillon DJ, Niebauer M, Varma N, **Wilkoff BL**, Rickard JW. Obesity Predicts Survival After Cardiac Resynchronization Therapy Independent of Effect on Left Ventricular Ejection Fraction. *Circ Heart Fail*. 2020 Oct;13(10):e007424. doi: 10.1161/CIRCHEARTFAILURE.120.007424. Epub 2020 Oct 15. PMID: 33054346
36. **Wilkoff BL**, Boriani G, Mittal S, Poole JE, Kennergren C, Corey GR, Krahn AD, Schloss EJ, Gallastegui JL, Pickett RA, Evonich RF, Roark SF, Sorrentino DM, Sholevar DP, Cronin EM, Berman BJ, Riggio DW, Khan HH, Silver MT, Collier J, Eldadah Z, Holbrook R, Lande JD, Lexcen DR, Seshadri S, Tarakji KG. Cost-Effectiveness of an Antibacterial Envelope for Cardiac Implantable Electronic Device Infection Prevention in the US Healthcare System From the WRAP-IT Trial. *Circ Arrhythm Electrophysiol*. 2020 Oct;13(10):e008503. doi:10.1161/CIRCEP.120.008503. Epub 2020 Sep 11. PMID: 32915063
37. **Wilkoff BL**, Birnie D, Gold MR, Hersi AS, Jacobs S, Gerritse B, Kusano K, Leclercq C, Mullens W, Filippatos G. Differences in clinical characteristics and reported quality of life of men and women undergoing cardiac resynchronization therapy. *ESC Heart Fail*. 2020;7:2972-2982
38. Hutt E, Diab M, Wazni OM, Kaur S, Tarakji KG, Saliba WI, Kanj M, Cantillon D, Rickard J, Varma N, Callahan T, Martin DO, Niebauer M, Dresing T, Chung M, **Wilkoff BL**, Hussein AA. Transvenous lead extraction in patients with prior extraction procedures: Procedural profiles and outcomes. *Heart Rhythm*. 2020;17:1904-1908

39. Koene RJ, Menon V, Cantillon DJ, Dresing TJ, Martin DO, Kanj M, Saliba WI, Tarakji KG, Baranowski B, Hussein AA, Tchou PJ, Bhargava M, Callahan TD, Rickard JW, Niebauer MJ, Chung MK, Varma N, **Wilkoff BL**, Lindsay BD, Wazni OM. Clinical Outcomes and Characteristics With Dofetilide in Atrial Fibrillation Patients Considered for Implantable Cardioverter-Defibrillator. *Circ Arrhythm Electrophysiol.* 2020 Jul;13(7):e008168. doi: 10.1161/CIRCEP.119.008168. Epub 2020 Jun 14. PMID: 3253813
40. Olshansky B, Richards M, Sharma AD, Jones PW, Wold N, Perschbacher D, **Wilkoff BL**. Heart rate score predicts mortality independent of shocks in icd and crt-d patients. *J Interv Card Electrophysiol.* 2020;58:103-111.
41. Wass SY, Kanj M, Mayuga K, Hussein A, Saliba WI, Bhargava M, Cantillon D, Tchou PJ, Wazni O, **Wilkoff BL**, Chung MK. Proarrhythmic effects from competitive atrial pacing and potential programming solutions. *Pacing Clin Electrophysiol.* 2020;43:720-729
42. Hu PT, Hilow H, Patel D, Eppich M, Cantillon D, Tchou P, Bhargava M, Kanj M, Baranowski B, Hussein A, Callahan T, Saliba W, Dresing T, **Wilkoff BL**, Rasmussen PA, Wazni O, Tarakji KG. Use of virtual visits for the care of the arrhythmia patient. *Heart Rhythm.* 2020;17:1779-1783
43. **Wilkoff BL**, Boriani G, Mittal S, Poole JE, Kennergren C, Corey GR, Love JC, Augustini R, Faerstrand S, Wiggins SS, Healey JS, Holbrook R, Lande JD, Lexcen DR, Willey S, Tarakji KG, Investigators W-I. Impact of cardiac implantable electronic device infection: A clinical and economic analysis of the WRAP-IT trial. *Circ Arrhythm Electrophysiol.* 2020;13:e008280.
44. Chahine J, Baranowski B, Tarakji K, Gad MM, Saliba W, Rickard J, Cantillon DJ, Diab M, Kanj M, Callahan T, Dresing T, Bhargava M, Chung M, Niebauer MJ, Varma N, Tchou P, **Wilkoff BL**, Wazni O, Hussein AA. Cardiac venous injuries: Procedural profiles and outcomes during left ventricular lead placement for cardiac resynchronization therapy. *Heart Rhythm.* 2020;17:1298-1303.
45. Jones BM, Jobanputra Y, Krishnaswamy A, Mick S, Bhargava M, **Wilkoff BL**, Kapadia SR. Rapid ventricular pacing during transcatheter valve procedures using an internal device and programmer: A demonstration of feasibility. *Catheter Cardiovasc Interv.* 2020;95:1042-1048.
46. Patel D, Trulock K, Kumar A, Kiehl E, Toro S, Moennich LA, Gorodeski E, Hussein A, Cantillon D, Tarakji KG, Niebauer M, Wazni O, Varma N, **Wilkoff B**, Rickard JW.

- Baseline right ventricular dysfunction predicts worse outcomes in patients undergoing cardiac resynchronization therapy implantation. *J Card Fail.* 2020;26:227-232.
47. Patel D, Trulock KM, Moennich LA, Kiehl EL, Kumar A, Toro S, Donnellan E, Grimaldi A, Baranowski B, Hussein AA, Tarakji KG, Cantillon DJ, Niebauer M, Wazni OM, Varma N, **Wilkoff BL**, Rickard JW. Predictors of long-term outcomes greater than 10 years after cardiac resynchronization therapy implantation. *J Cardiovasc Electrophysiol.* 2020;31:1182-1186
 48. Mittal S, **Wilkoff BL**, Kennergren C, Poole JE, Corey R, Bracke FA, Curnis A, Addo K, Martinez-Ararras J, Issa ZF, Redpath C, Moubarak J, Khelae SK, Boersma LVA, Korantzopoulos P, Krueger J, Lande JD, Morss GM, Seshadri S, Tarakji KG. The world-wide randomized antibiotic envelope infection prevention (WRAP-IT) trial: Long-term follow-up. *Heart Rhythm.* 2020;17:1115-1122.
 49. Patel D, Hu P, Hilow H, Lambert CT, Moufawad M, Poe S, Hussein AA, Baranowski B, Bhargava M, Rickard JW, Cantillon DJ, Saliba W, **Wilkoff BL**, Wazni O, Tarakji KG. The gap between what patients know and desire to learn about their cardiac implantable electronic devices. *Pacing Clin Electrophysiol.* 2020;43:118-122.
 50. Stiles MK, Fauchier L, Morillo CA, **Wilkoff BL**. Balancing the risks of adverse events and optimal programming of implantable cardioverter-defibrillators: Authors' reply. *Europace.* 2020;22:170-171.
 51. Stiles MK, Fauchier L, Morillo CA, **Wilkoff BL**. 2019 hrs/ehra/aphrs/lahrs focused update to 2015 expert consensus statement on optimal implantable cardioverter-defibrillator programming and testing. *Heart Rhythm.* 2020;17:e220-e228
 52. Stiles MK, Fauchier L, Morillo CA, **Wilkoff BL**. 2019 hrs/ehra/aphrs/lahrs focused update to 2015 expert consensus statement on optimal implantable cardioverter-defibrillator programming and testing. *J Interv Card Electrophysiol.* 2020;59:135-144.
 53. Stiles MK, Fauchier L, Morillo CA, **Wilkoff BL**. 2019 hrs/ehra/aphrs/lahrs focused update to 2015 expert consensus statement on optimal implantable cardioverter-defibrillator programming and testing. *J Arrhythm.* 2019;35:485-493.
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Revised: 01/04/2023 BLW