TECHNION Israel Institute of Technology | The Ruth and Bruce Rappaport Faculty of Medicine

Date: 10-12-2020

TECHNION – RUTH & BRUCE RAPPAPORT FACULTY OF MEDICINE
RESUME (for physicians only)

1. PERSONAL DETAILS

Full Name:	Mahmoud Suleiman
Identity No:	024789760
Date of birth:	14/1/1970
Place of birth:	Israel
Marital status:	married
Phone numbers:	0502061385, 046562504
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Orcid Account:	

2. ACADEMIC DEGREES

1996	MD (cum laude), Faculty of Medicine, Technion-Israel Institute of Technology, Haifa, Israel
1993	BMedSc (cum laude), Faculty of Medicine, Technion-Israel Institute of Technology, Haifa, Israel

3. ACADEMIC APPOINTMENTS

2018 - present	Clinical Associate Professor, Faculty of Medicine, Technion-Israel Institute of Technology, Haifa, Israel
2012 - 2018	Clinical Assistant Professor, Faculty of Medicine, Technion-Israel Institute of Technology, Haifa, Israel

4. PROFESSIONAL EXPERIENCE

2020 - present	Head of Invasive Cardiac Electrophysioloy Service, Cardiology, Rambam HCC
2008 - 2020	Senior attending physician, Cardiology, Rambam, HCC
2007 - 2008	Electrophysiology Fellowship, Mayo Clinic, Rochester, MN, USA
2005 - 2007	Electrophysiology Fellowship, Cardiology, Rambam HCC

2000 - 2003	Cardiology Fellowship, Cardiology, Rambam HCC
1997 - 2000	Internal Medicine Residency, Medicine D, Rambam HCC
1996 - 1997	Medical Internship, Hae'mik Medical center (Afula)

5. RESEARCH INTERESTS

- Statins for prevention of atrial fibrillation following pulmonary veins isolation
- Inflammation in acute coronary syndrome
- Haptoglobin phenotype and cardiovascular diseases in diabetic patients
- Outcomes of patients implanted with ICD/CRTD in different subgroups
- Peri-operative management of patients with cardiac implantable electronic devices
- Artificial Intelligence in Cardiac Arrhythmias

6. TEACHING EXPERIENCE

1997 - 2000	4th years medical students tutor, Medical School Clinical , Technion-Israel Institute of Technology, Haifa
2002 - 2005	ACLS, instructor, Residents , Rambam Health Care Campus, Haifa
2003 - 2009	Cardiology, frontal lectures, Nursing Course , University of Haifa, Haifa
2008 - 2010	Introduction to Internal Medicine-American Students, frontal lectures, Medical School Clinical
2010 - present	Cardiology Fellows, frontal lectures, Residents , Israeli Heart Society
2010 - present	Cardiology, tutor, frontal and bedside teaching, Medical School Clinical , Technion-Israel Institute of Technology, Haifa
2018 - 2019	Cardiac Pacing, design, organization and execution, National Course , Rambam Health Care Campus, Haifa
2020 - 2020	Cardiac Electrophysiology, design, organization and execution, National Course , Technion-Israel Institute of Technology, Haifa

7. TECHNION ACTIVITIES

2010 - 2012	Member of the Israeli Cardiology Board Examination Committee
2020 - 2020	Technion - Continuing and Professional Education: Design, organization and execution of National Course on Cardiac Electrophysiology

8. FACULTY ACTIVITIES

2010 - present	Member of the national board committee for writing the final exam in Internal Medicine for medical students, Technion-Israel Institute of Technology, Haifa

2015 - present	Examiner in the final Internal Medicine Exam, Technion-Israel Institute of Technology, Haifa
2015 - present	“More” exam,, Technion-Israel Institute of Technology, Haifa

9. PUBLIC PROFESSIONAL ACTIVITIES

2006 - present	Reviewer for Scientific Journals, Circulation, The American Journal of Cardiology, Journal of Internal Medicine, Heart Rhythm Journal, Heart Rhythm Case Reports, Heart, Journal of Interventional Cardiac Electrophysiology, Cardiovascular Diabetology
2008 - present	Member of brain death determination committee, Rambam Health Care Campus, Haifa
2009 - 2013	Board Member of the Israel Working Group on Pacing and Electropgysiology, Israeli Heart Society
2010 - 2019	Advisor and Instructor, the program of health science at Nazareth Baptists School, Nazareth Baptists School
2014 - present	Editorial Board member, Heart Rhythm Case reports Journal
2015 - present	Member of Mayo Clinic Fellowship committee, Israeli Heart Society
2017 - present	Head of the Israeli Working Group on Pacing and Electrophysiology, Israeli Heart Society

10. MEMBERSHIP IN PROFESSIONAL SOCIETIES

- Israel Heart Society
- European Society of Cardiology
- European Heart Rhythm Society
- Heart Rhythm Society

11. AWARDS AND HONORS

1993	Diploma with honors (cum laude), Medical Sciences, Technion- Israel Institute of technology, Medicine, Technion-Israel Institute of Technology, Haifa
1996	Medical Doctor (MD) with honors (cum laude), Medicine, Technion-Israel Institute of Technology, Haifa
2004, 2006	The H.N. Neufeld Award for excellent medical research , Israeli Heart Society
2014, 2015	Excellent Lecturer, Medicine, Technion-Israel Institute of Technology, Haifa

12. GRADUATE STUDENTS

Completed MD Theses

2004 Tarek Saa'di, MD Inflammation and extent of coronary artery disease in patients undergoing coronary angiography ,(**Mahmoud Suleiman**)

2006 Rania El-Khatib, MD Inflammation and risk of long-term development of heart failure and mortality in survivors of acute myocardial infarction. ,(Doron Aronson, MD Co-Supervisor with **Mahmoud Suleiman**, MD)

2007 Abeer Suleiman, MD Haptoglobin polymorphism and heart failure in patients with diabetes and acute myocardial infarction ,(Andy Levy, MD, PhD Co-Supervisor with **Mahmoud Suleiman**, MD)

2008 Rasha Zoabi, MD Predictor value of admission glucose on epicardial and myocardial perfusion following primary percutaneous coronary intervention in patients with acute ST elevation myocardial infarction ,(**Mahmoud Suleiman**, MD Co-Supervisor with Monther Boulos, MD)

2009 Mohammed Hamad, MD Correlation of culprit lesions complexity and TIMI risk score in patients with acute coronary syndrome ,(**Mahmoud Suleiman**, MD Co-Supervisor with Monther Boulos, MD)

2013 Narmeen Shehade, MD Depression and Anxiety as Risk Factor for Ventricular Arrhythmias in ICD Recipients: Prospective Study. ,(Mahmoud Suleiman*, MD)

2014 Tameem Zoabi Impact of sugical revisions on outcomes of patients with ICD or CRTD devices ,(*Mahmoud Suleiman, MD)

2015 Ido Goldenberg, MD Prognostic Significance of Baseline Hemoglobin in Outcomes of Patients Implanted with ICD or CRTD ,(**Mahmoud Suleiman**, MD)

Completed Basic Science Theses

2014 Fedaa Ghanem , Perioperative management of patients with cardiac implantable electronic devices: randomized controlled pilot trial (MAGNET trial) ,(**Mahmoud Suleiman**, MD)

Completed MSc Theses

Completed PhD Thesis

MD Theses in Progress

2016 - 2022 Yuval Cohen, The influence of potassium level in the serum on the clinical pathway and prognosis of patients with heart failure ,(**Mahmoud Suleiman**, MD Co-Supervisor with Shmuel Rispler, MD)

Basic Science Theses in Progress

MSc Theses in Progress

PhD Theses in Progress

13. FORMER TRAINEES AT KEY POSITIONS

14. RESEARCH GRANTS

Competitive

2014 - 2016	Israeli Working Group on Pacing and Electrophysiology, Perioperative MAnaGement of patieNts with cardiac implantable Electronic devices: randomized controlled clinical Trial (MAGNET trail). Israeli Working Group on Pacing and Electrophysiology, 70000 NIS, Mahmoud Suleiman (PI)
2018 - 2020	Lorry Lokey Interdisciplinary Center for Life Sciences and Engineering, Towards predictive treatment of cardiac fibrillation, 110000 USD, Mahmoud Suleiman (Sub Investigator), Yael Yaniv (BME, Technion) (Sub Investigator)
2018 - 2021	Chief Scientist in collaboration with Trendlines, Development of new Balloon of Atrail Fibrillation Ablation, 3,000,000 NIS, Mahmoud Suleiman (Sub Investigator), Prof Lior Gepstien, Trendlines (Sub Investigator)
2020 - 2025	Horizon 2020 BHC-25-2019, PROFID Implementation of personalised risk prediction and prevention of sudden cardiac death after myocardial infarction, 185000 USD, Mahmoud Suleiman (Sub Investigator), G. Hindricks (Leipzig University)- PI (Sub Investigator)

Industrial

2007 - 2009	Pfizer, Atorvastatin for Prevention of Atrial Fibrillation Recurrence Following Pulmonary Veins Isolation: A Double-Blind, Placebo-Controlled, Randomized Trial, 50, 000, USD, Mahmoud Suleiman (Sub Investigator), Paul Friedman, PI (Sub Investigator)
2012 - 2015	Boston Scientific, Implantable Cardioverter Defibrillator (ICD) in real world setting: data from the Israeli ICD registry, 200, 000, USD, Mahmoud Suleiman (Sub Investigator), Ilan Goldberg, PI (Sub Investigator)
2019 - 2021	Medtronic, Israeli National Atrial Fibrillation database using Cryo-Balloon Ablation, 60, 000, USD, Mahmoud Suleiman (PI)

15. PUBLICATIONS

15.1 Theses

15.2 Refereed papers in professional journals

Published papers

Accepted (or in press) papers

Submitted papers

Basic research

1.**Suleiman M**, Kapeliovich M, Roguin A, Aronson D, Meisel SR, Shochat M, Reisner S, Hammerman H, Lotan R, Levy NS, Levy AP. Haptoglobin type and 30-day mortality in diabetic individuals presenting with acute myocardial infarction. Diabetes Care. 2003; 26(9):2699-700. Q1. H index 364

2.**Suleiman M**, Asleh R, Cabantchik ZI, Breuer W, Levy AP. Serum labile plasma iron is an independent and powerful predictor of mortality after myocardial infarction in individuals with diabetes mellitus. Diabetes Care. 2004; 27(11):2730-2732. Q1, H index 364

3.**Suleiman M**, Aronson D, Kapeliovich MR, Roguin R, Meisel SR, Shochat M, Reisner SA, Markiewicz W, Hammerman H, Lotan R, Levy NS, Levy AP. Haptoglobin Polymorphism Predicts 30-Day Mortality and Heart Failure in Patients with Diabetes and Acute Myocardial Infarction. Diabetes. 2005; 54(9):2802-2806. Q1, H index 320

Clinical research

1.**Suleiman M**, Gruberg L, Hammerman H, Aronson D, Halabi M, Goldberg A, Grenadier E, Boulus M, Markiewicz W, Beyar R. Comparison of Two Platelet Glycoprotein IIb/IIIa Inhibitors, Eptifibatide and Abciximab: Outcomes, Complications and Thrombocytopenia During Percutaneous Coronary Intervention. J Invasive Cardiol. 2003; 15(6):319-323. Q2, H index 55

2.Nikolsky E, Gruberg L, Pechersky S, Kapeliovich M, Grenadier E, Amikam S, Boulos M, **Suleiman M**, Markiewicz W, Beyar R. Stent deployment failure: Reasons, implications, and short- and long-term outcomes. Catheter Cardiovasc Interv. 2003 ;59(3):324-8. Q2, h index 112

3.**Suleiman M**, Aronson D, Reisner S, Kapeliovich M, Markiewicz W, Levy Y, Hammerman H, Admission C-Reactive Protein is a Strong Independent Predictor of 30-Day Mortality in Patients with Acute Myocardial Infarction. Am J Med. 2003; 115(9):695-70. Q1, H index 223

4.**Suleiman M**, Kapeliovich M, Roguin A, Aronson D, Meisel SR, Shochat M, Reisner S, Hammerman H, Lotan R, Levy NS, Levy AP. Haptoglobin type and 30-day mortality in diabetic individuals presenting with acute myocardial infarction. Diabetes Care. 2003; 26(9):2699-700. Q1. H index 364

5.**Suleiman M**, Asleh R, Cabantchik ZI, Breuer W, Levy AP. Serum labile plasma iron is an independent and powerful predictor of mortality after myocardial infarction in individuals with diabetes mellitus. Diabetes Care. 2004; 27(11):2730-2732. Q1, H index 364

6.**Suleiman M**, Hammerman H, Boulos M, Kapeliovich MR, Suleiman A, Agmon Y, Markiewicz W, Aronson D. Fasting glucose is an important independent risk factor for 30-day mortality in patients with acute myocardial infarction: a prospective study. Circulation. 2005 ; 111(6):754-760.

Q1, H index 593

7.**Suleiman M**, Aronson D, Kapeliovich MR, Roguin R, Meisel SR, Shochat M, Reisner SA, Markiewicz W, Hammerman H, Lotan R, Levy NS, Levy AP. Haptoglobin Polymorphism Predicts 30-Day Mortality and Heart Failure in Patients with Diabetes and Acute Myocardial Infarction. Diabetes. 2005; 54(9):2802-2806. Q1, H index 320

8.**Suleiman M**, Khatib R, Mahamid R, Boulos M, Kapeliovich M.R, Levy Y, Hammerman H, Markiewicz W, Aronson D. Early Inflammation and Risk of Long-Term Development of Heart Failure and Mortality in Survivors of Acute Myocardial Infarction: Predictive Role of C-Reactive Protein. J Am Coll Cardiol. 2006; 47;962-968. Q1, H index 419

9.Gruberg L, **Suleiman M**, Kapeliovich M, Hammerman H, Grenadier E, Boulus M, Amikam S, Markiewicz W, Beyar R. Glycoprotein IIb/IIIa Inhibitors during Rescue Percutaneous Coronary Intervention in Acute Myocardial Infarction. J Invasive Cardiol. 2006; 18:59–62. Q2, H index 55

10.Goldsher D, Amikam S, Boulos M, **Suleiman M**, Shreiber R, Eran A, Goldshmid Y, Mazbar R, Roguin A. Magnetic Resonance Imaging for Patients with Permanent Pacemakers: Initial Clinical Experience. Isr Med Assoc J. 2006; 8:91–94. Q3, H index 53

11.Dragu R, Huri S, Zuckerman R, **Suleiman M**, Mutlak D, Agmon Y, Kapeliovich MR, Beyar R, Markiewicz W, Hammerman H, Aronson D. Predictive value of white blood cell subtypes for long-term outcome following myocardial infarction. Atherosclerosis. 2008; 196(1):405-412. Q1, H index 166

12.**Suleiman M**, Gepstein L, Roguin A, Beyar R, Boulos M. Catheter ablation of cardiac arrhythmias guided by electroanatomic imaging (CARTO): a single-center experience. Isr Med Assoc J. 2007; 9(4):260-264. Q3, H index 53

13.Aronson D, Hammerman H, Kapeliovich MR, Suleiman A, Agmon Y, Beyar R, Markiewicz W, **Suleiman M**. Fasting glucose in acute myocardial infarction: incremental value for long-term mortality and relationship with left ventricular systolic function. Diabetes Care. 2007; 30(4):960-966. Q1, H index 364

14.Aronson D, **Suleiman M**, Agmon Y, Suleiman A, Blich M, Kapeliovich MR, Beyar R, Markiewicz W, Hammerman H. Changes in haemoglobin levels during hospital course and long-term outcome after acute myocardial infarction. Eur Heart J. 2007; 28(11):1289-1296. Q1, H index 286

15.Glikson M, **Suleiman M**, Luria DM, Martin ML, Hodge DO, Shen WK, Bradley DJ, Munger TM, Rea RF, Hayes DL, Hammill SC, Friedman PA. Do Abandoned Leads Pose Risk to ICD Patients? Heart Rhythm. 2009; 6(1):65-68. Q1, H index 125

16.Aronson D, Hammerman H, **Suleiman M**, Markiewicz W. Usefulness of changes in fasting glucose during hospitalization to predict long-term mortality in patients with acute myocardial infarction. Am J Cardiol. 2009; 104(8):1013-7. Q1, h index 215

17.AbouEzzeddine O, Suleiman, M, Buescher T, Friedman PA, Jahangir A , Mears JA, Ladwing DJ, Munger TM, Hammill SC, Packer DL, Asirvatham SJ. Relevance of endocavitary structures in ablation procedures for ventricular tachycardia. J Cardiovasc Electrophysiol. 2010; 21(3):245-254. Q1, H index 135

18.Blich M, **Suleiman M**, Zeidan Shwiri T, Marai I, Boulos M, Amikam S. Long term outcome of VDD mode pacing in patients with atrioventricular block using a single lead. Clin Cardiol. 2010; 33(1):18-22. Q1, H index 70

19.Marai I, **Suleiman M**, Blich M, Zeidan-Shwiri T, Gepstien L, Boulos M. Clinical and Electrophysiologic Outcomes of Patients Undergoing Percutaneous Endocardial Ablation of Scar – Related Ventricular Tachycardia: Single Center Experience. Isr Med Assoc J. 2010;12(11):667-70. Q3, H index 53

20.Zeidan-Shwiri T, Aronson D, Atalla K, Blich M, **Suleiman M**, Marai I, Gepstein L, Lavie L, Lavie P, Boulos M. Circadian pattern of life-threatening ventricular arrhythmia in patients with sleep-disordered breathing and implantable cardioverter-defibrillators. Heart Rhythm. 2011;8(5):657-62. Q1, H index 125

21.**Suleiman M**, Brady PA, Asirvatham SJ, Friedman PM, Munger TM. The Non-Coronary Cusp as a Site for Successful Ablation of Accessory Pathways – Electrogram Characteristics in Three Cases. J Cardiovas Electrophysiology. J Cardiovasc Electrophysiol. 2011;22(2):203-9. Q1, H index 135

22.Eliyahu S, Roguin A, Kerner A, Boulos M, Lorber A, Halabi M, **Suleiman M**, Nikolsky E, Rispler S, Beyar R. Patient safety and outcomes from live case demonstrations of interventional cardiology procedures. JACC Cardiovasc Interv. 2012;5(2):215-24. Q1, H index 116.

23.Marai I, Khoury A, **Suleiman M**, Gepstein L, Blich M, Lorber A, Boulos M. Importance of ventricular tachycardia storms not terminated by implantable cardioverter defibrillators shocks in patients with CASQ2 associated catecholaminergic polymorphic ventricular tachycardia. Am J Cardiol. 2012;110(1):72-6. Q1, H index 215

24.Khoury A, Marai I, **Suleiman M**, Blich M, Lorber A, Gepstein L, Boulos M. Flecainide therapy suppresses exercise-induced ventricular arrhythmias in patients with CASQ2-associated catecholaminergic polymorphic ventricular tachycardia. Heart Rhythm. 2013;10(11):1671-5. Q1, H index 125

25.**Suleiman M**, Goldenberg I, Haim M, Schliamser JE, Boulos M, Ilan M, Swissa M, Gavrielov-Yusim N, Fuchs T, Amit G, Glikson M; Israeli Working Group on Pacing and Electrophysiology. Clinical characteristics and outcomes of elderly patients treated with an implantable cardioverter-defibrillator or cardiac resynchronization therapy in a real-world setting: data from the Israeli ICD Registry. Heart Rhythm. 2014;11(3):435-41. Q1, H index 125

26.Arnson Y, #**Suleiman M**, Glikson M, Sela R, Geist M, Amit G, Schliamser JE, Goldenberg I, Ben-Zvi S, Orvin K, Rosenheck S, Adam Freedberg N, Strasberg B, Haim M. Role of defibrillation threshold testing during implantable cardioverter-defibrillator placement: data from the Israeli ICD Registry. Heart Rhythm. 2014;11(5):814-21. (#Equal contribution). Q1, H index 125

27.Amit G, **Suleiman M**, Konstantino Y, Luria D, Kazatsker M, Chetboun I, Haim M, Gavrielov-Yusim N, Goldenberg I, Glikson M; On behalf of the Israeli Working Group on Pacing and Electrophysiology. Sex differences in implantable cardioverter-defibrillator implantation indications and outcomes: lessons from the Nationwide Israeli-ICD Registry. Europace. 2014;16(8):1175-80. Q1, H index 99

28.Eisen A, #**Suleiman M**, Strasberg B, Sela R, Rosenheck S, Freedberg NA, Geist M, Ben-Zvi S, Goldenberg I, Glikson M, Haim M. Renal Dysfunction and Clinical Outcomes of Patients Undergoing ICD and CRTD Implantation: Data from the Israeli ICD Registry. J Cardiovasc Electrophysiol. 2014; 25(9):990-7. (#Equal contribution). Q1, H index 135

29.**Suleiman M**, Goldenberg I, Samniah N, Rosso R, Marai I, Pekar A, Steiner H, Khalameizer V, Militianu A, Glikson M. Outcome of Patients with Advanced Heart Failure Who Receive Device-Based Therapy for Primary Prevention of Sudden Cardiac Death: Insights from the Israeli ICD Registry. Pacing Clin Electrophysiol. 2015; 38(6):738-45. Q2, H index 98

30.Sabbag A, **Suleiman M**, Glick A, Fuchs T, Medina A, Golovchiner G, Steiner H, Goldenberg I, Glikson M, Beinart R. Ethnic differences among implantable cardioverter defibrillators recipients in Israel. Am J Cardiol. 2015 ;115(8):1102-6. Q1, H index 215

31.Blich M, Marai I, **Suleiman M**, Lorber A, Gepstein L, Boulous M, Khoury A. Electrocardiographic comparison of ventricular premature complexes during exercise test in patients with CPVT and healthy subjects. Pacing Clin Electrophysiol. 2015;38(3):398-402. Q2, H index 98

32.Sabbag A, **Suleiman M**, Laish-Farkash A, Samania N, Kazatsker M, Goldenberg I, Glikson M, Beinart R; Israeli Working Group of Pacing and Electrophysiology. Contemporary rates of appropriate shock therapy in patients who receive implantable device therapy in a real-world setting: From the Israeli ICD Registry. Heart Rhythm. 2015;12(12):2426-33. Q1, H index 125

33.Blich M, Efrati E, Marai I, **Suleiman M**, Gepstein L, Boulous M. Novel Clinical Manifestation of the Known SCN5A D1790G Mutation. Cardiology. 2015;132(4):228-32.

34.Soucek F, Covassin N, Singh P, Ruzek L, Kara T, **Suleiman M**, Lerman A, Koestler C, Friedman PA, Lopez-Jimenez F, Somers VK. Effects of Atorvastatin (80 mg) Therapy on Quantity of Epicardial Adipose Tissue in Patients Undergoing Pulmonary Vein Isolation for Atrial Fibrillation. Am J Cardiol. 2015;116(9):1443-6. Q1, H index 215

35.Laish-Farkash A, **Suleiman M**. Primary Versus Secondary Atrial Fibrillation: Is it Time for a Different Classification of Atrial Fibrillation? J Cardiovasc Electrophysiol. 2015 Sep 22. doi: 10.1111/jce.12840. Q1, H index 135

36.Bogdan S, Nof E, Eisen A, Sela R, Rosenheck S, Freedberg N, Geist M, Ben-Zvi S, Haim M, Glikson M, Goldenberg I, **Suleiman M**; Israeli working group of pacing and electrophysiology of the Israeli Heart Society. Clinical Outcomes in Patients with Severe Renal Dysfunction Including Dialysis Following Defibrillator Implantation. Am J Nephrol. 2015;42(4):295-304. Q1, H index 80

37.Marai I, Boulos M, Lessick J, Abadi S, Blich M, **Suleiman M**. Outflow tract ventricular arrhythmia originating from the aortic cusps: our approach for challenging ablation. J Interv Card Electrophysiol. 2015 Nov 16. Q2, H index 52

38.Konstantino Y, Haim M, Boxer J, Goldenberg I, Feldman, Michowitz Y, Glikson M, **Suleiman M**. Clinical Outcomes of Single vs. Dual Chamber Implantable Cardioverter Defibrillators: Lessons from the Israeli ICD Registry. J Cardiovasc Electrophysiol. 2016 Feb 8. doi: 10.1111/jce. Q1, H index 135

39.Marai I, **Suleiman M**, Blich M, Lessick J, Abadi S, Boulos M. Impact of computed tomography

image and contact force technology on catheter ablation for atrial fibrillation. World J Cardiol. 2016;8(4):317-22. Q3

40.Matsuzawa Y, **Suleiman M**, Guddeti RR, Kwon TG, Monahan KH, Lerman LO, Friedman PA, Lerman A. Age-Dependent Predictive Value of Endothelial Dysfunction for Arrhythmia Recurrence Following Pulmonary Vein Isolation. J Am Heart Assoc. 2016 Sep 9;5(9). Q1, h index 72

41.Laish-Farkash A, Bruoha S, Katz A, Goldenberg I, **Suleiman M**, Michowitz Y, Shlomo N, Einhorn-Cohen M, Khalameizer V. Morbidity and mortality with cardiac resynchronization therapy with pacing vs. with defibrillation in octogenarian patients in a real-world setting. Europace. 2016 Oct 12. pii: euw238. Q1, H index 99

42.Steiner H, Geist M, Goldenberg I, **Suleiman M**, Glikson M, Tenenbaum A, Swissa M, Fisman EZ, Golovchiner G, Strasberg B, Barsheshet A; Israeli Working Group of Pacing and EP. Characteristics and outcomes of diabetic patients with an implantable cardioverter defibrillator in a real world setting: results from the Israeli ICD registry. Cardiovasc Diabetol. 2016 Dec 1;15(1):160. Q1, H index 70

43. Laish-Farkash A, **Suleiman M**. Comparison of the Efficacy of PVAC® and nMARQ™ for paroxysmal atrial fibrillation. J Atr Fibrillation. 2017 Apr 30;9(6):1550. Q3, H index 111

44.Goldenberg I, Barsheshet A, Laish-Farkash A, Swissa M, Schliamser JE, Michowitz Y, Glikson M, **Suleiman M**; Israeli Working Group on Pacing and Electrophysiology. Anemia and the Risk of Life-threatening Ventricular Tachyarrhythmias from the Israeli Implantable Cardioverter Defibrillator Registry. Am J Cardiol. 2017 Dec 15;120(12):2187-2192. Q1, h index 215

45.Dabbah S, Chertin L, Khateeb A, Rosenfeld I, **Suleiman M**, Halabi M. Red cell distribution width predicts death and appropriate therapy in patients with implantable cardioverter defibrillator: A simple measurement with prognostic value in a variety of diseases, may help in better selection of patients who will benefit the most from this device. Pacing Clin Electrophysiol. 2017 Dec;40(12):1384-1388. Q2, H index 98

46.Laish-Farkash A, **Suleiman M**. Evaluation of left atrial thrombus prior to catheter ablation of atrial fibrillation: Is it time for an individualized approach? J Cardiovasc Electrophysiol. 2017 Oct;28(10):1137-1139. Q1, h index 135

47.Laish-Farkash A, Bruoha S, Khalameizer V, Yosefy C, Michowitz Y, **Suleiman M**, Katz A. Multisite cardiac resynchronization therapy for traditional and non-traditional indications. J Interv Card Electrophysiol. 2018 Mar;51(2):143-152. Q2, H index 52

48.Leshem E, **Suleiman M**, Laish-Farkash A, Haim M, Geist M, Luria D, Glikson M, Goldenberg I, Michowitz Y; Israeli Working Group of Pacing and Electrophysiology. Impact of quadripolar LV leads on heart failure hospitalization rates among patients implanted with CRT-D: data from the Israeli ICD Registry. J Interv Card Electrophysiol. 2018 Jan;51(1):5-12. Q2, H index 52

49.Leshem E, Rahkovich M, Mazo A, **Suleiman M**, Blich M, Laish-Farkash A, Konstantino Y, Fogelman R, Strasberg B, Geist M, Chetboun I, Swissa M, Ilan M, Glick A, Michowitz Y, Rosso R, Glikson M, Belhassen B. Arrhythmic Events in Brugada Syndrome: A Nationwide Israeli Survey of the Clinical Characteristics, Treatment; and Long-Term Follow-up (ISRABRU-VF). Isr Med Assoc

J. 2018 May;20(5):269-276.Q3, H index 53
50.Sabbag A, Glikson M, **Suleiman M**, Boulos M, Goldenberg I, Beinart R, Nof E. Arrhythmic burden among asymptomatic patients with ischemic cardiomyopathy and an implantable cardioverter-defibrillator. Heart Rhythm. 2019 Jun;16(6):813-819. Q1, H index 125
51.Goldenberg I, Mor T, Nof E, Younis A, Berkovitch A, Rosso R, Barsheshet A, **Suleiman M**, Beinart R. Risk of death without appropriate defibrillator shock in patients with advanced renal dysfunction. Europace. 2019 Mar 1;21(3):459-464. Q1, H index 99
52.Blich M, Khoury A, **Suleiman M**, Lorber A, Gepstein L, Boulous M. Specific Therapy Based on the Genotype in a Malignant Form of Long QT3, Carrying the V411M Mutation. Int Heart J. 2019 Jul 27;60(4):979-982. Q2, H index 43
53.Ghersin I, Zahran M, Azzam ZS, **Suleiman M**, Bahouth F. Prognostic value of cardiac troponin levels in patients presenting with supraventricular tachycardias. J Electrocardiol. 2020 Sep 19;62:200-203. Q3, H index 59
54.Aguilar M, Yarnitsky J, Botzer L, Rubinstein V, Nakar E, Markides V, Derval N, Anselmino M, Winterfield J, Melby D, Marai I, **Suleiman M**, Meyer C, Zei PC. The advanced reference annotation algorithm: A novel approach to reference annotation for electroanatomic mapping. Int J Heart Rhythm 2019;4:48-54. Q3

Case reports

1.**Suleiman M**, Volfovitz E, Boulman N, Levy Y. Adult onset Still's disease as a cause of ARDS and acute respiratory failur. Scand J Rheumatol 2002; 31:181-183. Q1, H index 75
2.**Suleiman M**, Munger TM, Powel DB, Asirvatham SJ. Successful cryoablation in the noncoronary aortic cusp for a left anteroseptal accessory pathway. J Interv Card Electrophysiol. 2008; 23(3):205-21. Q2, H index 52
3.Habib A , Friedman PA, Cooper LT, **Suleiman M**, Asirvatham AJ. Cardiac calcified amorphous tumor in a patient presenting for ventricular tachycardia ablation: intracardiac echocardiogram diagnosis and management. J Interv Card Electrophysiol. 2009; 2. Q2, H index 52
4.Marai I, **Suleiman M**, Lorber A, Boulos M. Iatrogenic intra-atrial macro-reenterant tachycardia following transcatheter closure of atrial septal defect treated by radiofrequency ablation. Ann Pediatr Cardiol. 2011;4(2):192-4. Q3
5.Marai1 I, Koskosi M, Keidar Z , **Suleiman M** and Samia Massalha. QTc Prolongation after a Negative Dipyridamole Pharmacological Stress Study. Cardiol Pharmacol. 2013; 3: 114
6.Marai I, Gepstein L, Boulos M, **Suleiman M**. Ablation of Idiopathic Ventricular Fibrillation Triggered by Ventricular Premature Beat Originating from Myocardium of Right Ventricle: Case report. Journal of Cardiology Cases. 2014; 9 (3):109-112. Q4

Review papers

1.**Suleiman M**, Asirvatham SJ. Ablation above the Semilunar Valves: When, Why, and How?. Part I. Heart Rhythm. 2008; 5(10):1485-1492. Q1, H index 125
2.**Suleiman M**, Asirvatham SJ. Ablation above the Semilunar Valves: When, Why, and How?. Part

II. Heart Rhythm. 2008; 5(11):1625-1630. Q1, H index 125

3.**Suleiman M**, Aronson D. Impact of Atrial Fibrillation on cardiovascular mortality in the setting of myocardial infarction. Journal of atrial fibrillation. 2013;5(4):39-48. Q3

15.3 Books

15.4 Book chapters

15.5 Letters to the Editor

15.6 Refereed papers in conference proceedings

15.7 Patents (granted)

15.8 Other publications

16 CONFERENCES

16.1 Plenary, keynote or invited talks

International

1. Mahmoud Suleiman (Press conference) , CRP in Acute Myocardial Infarction, American College of Cardiology (ACC) annual meeting, USA, 2004. (Other)

2. Mahmoud Suleiman (Press conference), Fasting Glucose in Acute Myocardial Infarction, 2. Press conference at the American College of Cardiology (ACC) annual meeting, USA, 2006. (Other)

3. Mahmoud Suleiman, Update in Atrial Fibrillation Ablation, Romanian Society of Cardiology Annual meeting, Romania, 2010. (Invited Talk)

4. Mahmoud Suleiman , Atrial Fibrillation in Athletes, The 10th International Dead Sea Symposium on Arrhythmias, Israel, 2010. (Invited Talk)

5. Mahmoud Suleiman, Report from the National Israeli ICD Registry., Heart Rhythm Scientific Meeting, USA, 2011. (Invited Talk)

6. Mahmoud Suleiman, Cardiac Resynchronization Therapy., Ukraine Society of Cardiology annual meeting, Ukraine, 2012. (Plenary)

7. Mahmoud Suleiman, Overview of the Israeli National ICD Registry., The 11th International Dead Sea Symposium on Arrhythmias, Israel, 2012. (Invited Talk)

8. Mahmoud Suleiman, Overview of the Israeli National ICD Registry and Comparison to North American and Other International Registries., Heart Rhythm Scientific Meeting, USA, 2013. (Invited Talk)

9. Mahmoud Suleiman, Updates on Cardiac Resynchronization Therapy, Russian Society of Cardiology annual meeting, Russian Federation, 2013. (Invited Talk)

10. Mahmoud Suleiman, Lessons from the Israeli ICD Registry., The 12th International Dead Sea Symposium on Arrhythmias,, Israel, 2014. (Invited Talk)

11. Mahmoud Suleiman, Cardiac Rhythm Devices of Today and Tomorrow, Interventions (ICI), Innovations in Cardiovascular, Israel, 2015. (Invited Talk)

12. Mahmoud Suleiman, Israeli ICD Registry- Overview of Organization, Methodology and Initial Results., World Congress on Cardiac Arrhythmias, China, 2015. (Invited Talk)

13. Mahmoud Suleiman, Trends in ICD Implantation Indications and Outcomes., European Heart Rhythm Association Annual Meeting, Italy, 2015. (Invited Talk)

14. Mahmoud Suleiman, The Israeli ICD Registry: Current Practice and Results of Treatment with ICDs., American College of Cardiology (ACC) annual meeting, USA, 2016. (Invited Talk)

15. Mahmoud Suleiman, Predicting ICD therapy in real World., European Heart Rhythm Association Annual Meeting, Austria, 2017. (Invited Talk)

16. Mahmoud Suleiman, Atrial fibrillation ablation in 2020., The 15th Annual Congress of the European Cardiac Arrhythmia Society (ECAS), France, 2019. (Invited Talk)

17. Mahmoud Suleiman, Innovations in Cardiovascular Medicine., The 5th Cardiovascular Clinical Case Discussion and Creativity Forum Conference, China, 2019. (Keynote)

18. Mahmoud Suleiman, Obstructive sleep apnea and AF ablation, The 15th Annual Congress of the European Cardiac Arrhythmia Society (ECAS), France, 2019. (Invited Talk)

National

1. Mahmoud Suleiman and Rafi Beyar, PCI in the Elderly. , The 2nd Elderly Medicine Meeting, Israel, 2004. (Plenary)

2. Mahmoud Suleiman, Abandoned Leads and Risk to ICD Patients, Israeli Working Group on Elctrophysiology and Pacing Annual Meeting, Israel, 2009. (Invited Talk)

3. Mahmoud Suleiman, Ablation above the semilunar valves: When, why, and how?, Israeli Working Group on Elctrophysiology and Pacing Annual Meeting, Israel, 2009. (Invited Talk)

4. Mahmoud Suleiman, Dronedarone for rate control in AF, Israeli Working Group on Elctrophysiology and Pacing Annual Meeting, Israel, 2009. (Invited Talk)

5. Mahmoud Suleiman, Invasive management of cardiac arrhythmias. , The 2nd Arab Society Health conference, Israel, 2010. (Plenary)

6. Mahmoud Suleiman, 6. Cardiac Resynchronization therapy in 2011, Israeli Working Group on Elctrophysiology and Pacing Annual Meeting, Israel, 2011. (Invited Talk)

7. Mahmoud Suleiman, Invasive mangemnet of atrial fibrillation, Nazareth Hospital Staff Meeting, Israel, 2012. (Invited Talk)

8. Mahmoud Suleiman, Ventricular Arrhythmias. , The 3rd Arab Society Health coference, Israel, 2012. (Invited Talk)

9. Mahmoud Suleiman, Ventricualr arrhythmias in setting of acute coronary syndrome. , Joint meeting of the Israeli Working Groups on Elctrophysiology and Pacing and Intensive Coronary Care, Israel, 2016

10. Mahmoud Suleiman, How to Optimize Atrial Fibrillation Diagnosis and Management, The annual congress of the Israeli Heart Society- Plenary Session-Joint meeting with the American Heart , Israel, 2018. (Plenary)

11. Mahmoud Suleiman, Challenges in Prevention of Sudden Cardiac Death in 2020., Israeli Working Group on Elctrophysiology and Pacing Annual Meeting, Israel, 2019. (Invited Talk)

12. Mahmoud Suleiman, Relationship Between AF Burden and Stroke Risk: What is the Threshold for Anticoagulation, Israeli Working Group on Elctrophysiology and Pacing Annual Meeting, Israel , 2019. (Invited Talk)

16.2 Contributed Talks and Posters

International Oral

1. **Suleiman M**, Markiewicz W, Kapeliovich M, Hammerman H, Aronson D., Prognostic significance of stress hyperglycemia in nondiabetic patients with acute myocardial infarction: a prospective study, European Society of Cardiology, Austria. 08-2003 .

2. 14. **Suleiman M**, Kapeliovich MR, Roguin A, Aronson D, Meisel SR, Reisner SA, Hammerman H, Lotan R, Levy NS, Levy AP, Haptoglobin phenotype and 30-Day mortality in diabetic individuals presenting with acute myocardial infarction, American Heart Association Annual Meeting, USA. 11-2003 .

3. **Suleiman M**, Aronson D, Kapeliovich M, Kerner a, Levy y, Hammerman H, C-reactive protein levels as an early predictor of 30-day mortality in patients with acute myocardial infarction, American College of Cardiology (ACC) annual meeting, USA. 03-2004 .

4. **Suleiman M**, Markiewicz W, Kapeliovich M, Hammerman H, Aronson D, Prognostic significance of stress hyperglycemia in nondiabetic patients with acute myocardial infarction: A prospective study, American College of Cardiology (ACC) annual meeting, USA. 03-2004 .

5. Roguin A, Zviman M, Goldsher D, Amikam S, Boulos M, **Suleiman M**, Nazarian S, Halperin HR., Can patients with pacemakers and implantable cardioverter-defibrillator systems undergo MRI safely? In-vitro, in-vivo and initial clinical experience, European Society of Cardiology, Sweden. 09-2005 .

6. Aronson D, **Suleiman M**, Agmon Y, Blich M, Kapeliovich MR, Beyar R, Markiewicz W, Hammerman H, Effect of nadir hemoglobin during hospital course on the long-term risk of heart failure and death in survivors of acute myocardial infarction, American College of Cardiology (ACC) annual meeting, USA. 03-2006 .

7. **Suleiman M**, Hammerman H, Kapeliovich M, Agmon Y, Boulos M, Beyar R, Markiewicz W, Aronson D, Fasting glucose is a powerful independent risk factor for long-term mortality in patients with acute myocardial infarction. A prospective study, American College of Cardiology (ACC) annual meeting, USA. 03-2006 .

8. 30. **Suleiman M**, Koestler C, Lerman A, Jimenez L, Herges R, Hodge D, Bradely D, Cha YM, Brady PA, Munger TM, Shen WK, Asirvatham SJ, Packer DL, and Friedman PA., Atorvastatin for Prevention of Atrial Fibrillation Recurrence Following Pulmonary Veins Isolation: A Double-Blind, Placebo-Controlled, Randomized Trial, Heart Rhythm Scientific Meeting, USA. 05-2011 .

9. **Suleiman M**, Goldenberg I, Samniah N, Rosso R, Marai I, Pekar A, Steiner H, Khalameizer V, Militianu A, and Glikson M., Outcome of patients with advanced heart failure who receive device-based therapy for primary prevention of sudden cardiac death: insights from the israeli ICD registry , European Heart Rhythm Society Scientific Meeting, Greece. 05-2013 .

International Poster

1. **Suleiman M**, Levy Y, Aronson D, Roguin A, Halabi M, Kapeliovich M, Hamermman H., n level a useful marker of severity and infarct size in patients with acute ST elevation myocardial infarction? , European Society of Cardiolog, Germany. 08-2002 .

2. Halabi M, Nekolsky E, Hoffman A, Rogiun A, **Suleiman M**, Gruberg L, Kouperberg E, Markiewicz W, Beyar R., Carotid stenting in high risk patients- a single center experience, European Society of Cardiolog, Germany. 08-2002 .

3. Suleima M, Gruberg L, Halabi M, Nikolsky E, Grenadier E, Boulus M, Markiewicz W, Beyar R., Comparison eptifibatide and abciximab in the in-hospital outcomes and thrombocytopenia during percutaneous coronary intervention, European Society of Cardiolog, Germany. 08-2002 .

4. Gruberg L, **Suleiman M**, Kapeliovich M, Hammerman H, Grenadier E, Boulus M, Markiewicz W, Beyar R., Glycoprotein IIb/IIIa inhibitors after full-dose thrombolysis in rescue angioplasty for acute myocardial infarction: To give or not give? , Transcatheter Cardiovascular Therapeutics (TCT), USA. 09-2003 .

5. **Suleiman M**, Gruberg L, Kerner A, Aronson D, Boulus M, Markiewicz W, Beyar R., Elevated levels of admission C-reactive protein are not a marker of extensive coronary artery disease in patients undergoing primary percutaneous coronary intervention in acute myocardial infarction., Transcatheter Cardiovascular Therapeutics (TCT), USA. 09-2003 .

6. Gruberg L, **Suleiman M**, Kapellovich M, Hammerman H, Grenadier E, Boulus M, Markiewicz W, Beyar R, Glycoprotein IIb/IIIa inhibitors after full dose thrombolysis in rescue angioplasty for acute myocardial infarction, American College of Cardiology (ACC) annual meeting, USA. 03-2004 .

7. **Suleiman M**, Markiewicz W, Khatib R, Mahamid R, Kapeliovich MR, Levy Y, Hammerman H, Aronson D, C-Reactive protein on admission is an independent predictor of 1-year mortality in patients with acute myocardial infarction: A prospective study, American College of Cardiology (ACC) annual meeting, USA. 03-2004 .

8. **Suleiman M**, Aronson D, Kapeliovich MR, Markiewicz W, Hammerman H, Suleiman A, Levy NS, Levy Ap, Haptoglobin polymorphism is associated with short-term mortality and heart failure in patients with diabetes and acute myocardial infarction. , European of Society Cardiology, Germany. 08-2004 .

9. Dragu R, Aronson D, Zukerman R, **Suleiman M**, Rispler S, Markievicz W, Kapeliovich M, Hammerman H., Lymphopenia in the early phase of ST-elevation myocardial infarction is a prognostic marker of long-term mortality, European of Society Cardiology, Sweden. 09-2004 .

10. Gruberg L, **Suleiman M**, Pechersky S, Nikolsky E, Grenadier E, Boulus M, Markiewicz W, Beyar R., Five years after intracoronary radiation for the prevention of in-stent restenosis: not as hot as we thought, European of Society Cardiology, Sweden. 09-2005 .

11. Suleiman M, Hammerman H, Kapeliovich M, Agmon Y, Boulos M, Beyar R, Markiewicz W, Aronson D., Fasting glucose is a powerful independent risk factor for long-term mortality in patients with acute myocardial infarction. A prospective study, European of Society Cardiology, Sweden. 09-2005 .

12. **Suleiman M**, Boulos M, Hammerman H, Suleiman A, Kapeliovich MR, Markiewicz W, Aronson D., Elevated levels of C-reactive protein are associated with new onset atrial fibrillation in patients with acute myocardial infarction, Heart Rhythm Society, USA. 05-2006 .

13. AbouEzzedine O, **Suleiman M**, Friedman PA, Mears J, Buescher T, Packer DL, Asirvatham SJ, Relevance of endocavitary structures during ablation for ventricular tachycardia, The international Dead Sea symposium on cardiac arrhythmias and device therapy, Israel. 02-2008 .

14. Zeidan Shwiri T, Aronson D, Atalla K, **Suleiman M**, Marai I, Gepstien L, Blich M, Boulos M, Lavie L, Lavie P., Circadian Pattern of Life-Threatening Ventricular Arrhythmia in Patients with Sleep-Disordered Breathing and Implantable Cardioverter-Defibrillators, Heart Rhythm Scientific Meeting, USA. 05-2011 .

15. **Suleiman M**, Haim M, Schliamser JE, Boulos M, Viskin S, Swissa M, Gavrielov-Yusim N, Fuchs T, Goldenberg I, and Glikson M., Clinical Characteristics and Outcomes of Elderly Patients Treated With ICD and CRTD in Real World Setting: Data From the Israeli ICD Registry. , Heart Rhythm Scientific Meeting, USA. 05-2013 .

16. Maria Zahran, Bahouth F, Azzam Z, **Suleiman M**, Prognostic value of cardiac troponin levels in patients presenting with supraventricular tachycardias, European Heart Rhythm Society Scientific Meeting, Portugal. 03-2019 .

National Oral

1. **Suleiman M**, Gruberg L, Hammerman H, Aronson D, Halabi M , Goldberg A, Nikolsky E, Grenadier E, Boulus M, Markiewicz W, Beyar R, Comparison of two platelet glycoprotein IIb/IIIa Inhibitors, Eptifibatide and Abciximab, in the in-hospital outcomes and thrombocytopenia during percutaneous coronary intervention., Israeli Heart Society Meeting, Israel. 04-2002 .

2. Halabi M, Nekolsky E,Ben-Zvi M, Hoffman A, **Suleiman M**, Gruberg L, Kouperberg E, Markiewicz W, Beyar R. , Carotid stenting in high risk patients- a single center experience., Israeli Heart Society Meeting, Israel. 04-2002 .

3. Nikolsky E, Kapeliovich M, Pechersky S, Grenadier E, Amikam S, Boulus M, Gruberg L, **Suleiman M**, Futerman B, Markiewicz W, Beyar R. , Failed coronary stent deployment: single center experience. Israeli Heart Society Meeting, Israeli Heart Society Meeting, Israel. 04-2002 .

4. **Suleiman M**, Aronson D, Pecherski S, Rogiun A, Shwiri-Zidan T, Markiewicz W. , Influence of external or internal cardioversion on cardiac troponin T and other conventional cardiac markers, Israeli Heart Society Meeting, Israel. 04-2002 .

5. **Suleiman M**, Gruberg L, Hammerman H, Aronson D, Roguin A, Kapeliovich M, Grenadier E, Boulus M, Markiewicz W, Beyar R, Complex coronary culprit lesions are associated with higher TIMI Risk Score in patients with Non-ST elevation acute coronary syndromes, Israeli Heart Society Meeting, Israel. 04-2003 .

6. **Suleiman M**, Gruberg L, Hammerman H, Aronson D, Kpeliovich M, Grenadier E, Boulus m, Halabi M, Amikam S, Markiewicz W, Beyar R. , The correlation between C-reactive protein and the extent of coronary artery disease in patients undergoing primary percutaneous coronary intervention in acute myocardial infarction, Israeli Heart Society Meeting, Israel. 04-2003 .

7. **Suleiman M**, Kapeliovich M, Roguin A, Aronson D, Reisner SA, Hammerman H, Lotan R, Levy NS, Levy AP, A Common allelic polymorphism which predicts infarct size and 30-day adverse cardiac events in patients with acute myocardial infarction, Israeli Heart Society Meeting, Israel. 04-2003 .

8. Boulos M, **Suleiman M**, La-meir M, De Roy L, Cohen O, Bolotin G, The one Step electrophysiological and surgical approach for treatment of atrial fibrillation., Israrli Heart Society annual meeting, Israel. 04-2010 .

National Poster

1. **Suleiman M**, Rogiun A, Nikolsky A, Halabi M,Beyar R, Markiewicz W. Impact of normal or non-significant coronary angiographic findings on discharge diagnosis and medical recommendations. Israeli Heart Society Meeting,Tel-Aviv, IL, 2002. Poster presentation, of normal or non-significant coronary angiographic findings on discharge diagnosis and medical recommendations. , Israeli Heart Society Meeting,Tel-Aviv, IL, Israel. 04-2002 .

16.3 Participation in organizing conferences

1. Member of the organizing committee of the International Dead Sea Symposium (IDSS), Israel, 02-2020, member of the organizing committee .

17. SIGNIFICANT PROJECTS

2018 - current	Co-founder and Chief Medical officer, Novel Hybrid Catheter and Balloon for Atrial Fibrillation Ablation, Rambam Health Care Campus, Trendlines Co and the Innovation Authority, Liron Tayeb - CEO