

## ***CURRICULUM VITAE***

**Name:** Professor Israel Moshe Barbash, M.D.

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**FACULTY/DEPT** Associate Professor of Cardiology  
Sackler Faculty of Medicine, Tel Aviv University

**HOSPITAL/DEPT:** Director of catheterization laboratory services  
Interventional Cardiology Unit  
The Olga and Lev Leviev Heart Center  
Chaim Sheba Medical Center

**HOME ADDRESS** 31 TOPAZ STREET, SHOHAM

**DATE AND PLACE OF BIRTH** AUGUST 11, 1973 ISRAEL

**ZAHAL (ISRAELI) MILITARY SERVICE** AIR FORCE, NOVEMBER 1991 – NOVEMBER 1994

**MARITAL STATUS** MARRIED + 3

*A. Education*

November 1994 - November 2002      Bachelor Degree in Medical Sciences  
Ben-Gurion University of The Negev, Beer-Sheva, Israel

Medical School  
Ben-Gurion University of The Negev, Beer-Sheva, Israel

**Title of Doctoral Dissertation:**      Management and outcome of cardiogenic shock complicating acute myocardial infarction in hospitals with and without on-site catheterization facilities

**Supervised by:**                              Jonathan Leor, MD

**Date Awarded:**                              December 12, 2002

*B. Further Studies*

November 2000 - October 31 2001      Research Fellowship  
Neufeld Cardiac Research Institute  
Tel Aviv University, Tel-Aviv, Israel

November 1, 2001 - October 31, 2002      Internship - Clinical  
Sheba Medical Center, Tel Aviv University, Israel

February 1, 2003 - January 31, 2009      Internal Medicine Residency and Cardiovascular Disease Fellowship as part of combined Internal Medicine/Cardiology 6-year program  
Sheba Medical Center, Tel Aviv University, Israel

January 1, 2009 – June 30, 2011      Visiting Research Fellow, Cardiovascular Intervention Program, Translational Medicine Branch, National Heart Lung and Blood Institute, National Institute of Health

July 2009    Level 2 Cardiac CT training  
Johns Hopkins University, Baltimore, MD

July 2011 – June 2013                          Interventional Cardiology Fellowship  
MedStar - Cleveland Clinic Washington Hospital Center, Georgetown University, Washington DC

**ACCREDITATION****Israel**

Bachelor Degree in Medical Sciences	June 15, 1998
Medical Doctor 2002	December 12,
Board Certified in Internal Medicine, <i>Summa Cum Laude</i> (Israel Medical Association)	March 26, 2008
Board Certified in Cardiovascular Disease (Israel Medical Association)	February 3, 2009

**United States**

United States Medical Licensing Examination (USMLE) Step 2 Exam– Clinical Knowledge 2001	February 28,
United States Medical Licensing Examination (USMLE) Step 1 Exam	March 28, 2001
United States Medical Licensing Examination (USMLE) Step 2 Exam – Clinical Skills	August 3, 2007
Educational Commission for Foreign Medical Graduates (ECFMG) certification	October 12, 2007
United States Medical Licensing Examination (USMLE) Step 3 Exam	April 7, 2008

**C. ACADEMIC & PROFESSIONAL ACTIVITIES & ACHIEVEMENTS****C1. ACADEMIC EXPERIENCE**

May 2009	15 <sup>th</sup> Annual Interventional Cardiology Fellows Course, Cardiovascular Research Foundation, Miami, FL
October 2009 – December 2009	Biomedical Applications of Magnetic Resonance Imaging Foundation For Advanced Education in the Sciences Inc. Bethesda, MD

**C2. PROFESSIONAL EXPERIENCE****PATENTS**

2008	Methods of isolating cardiac stem cells, banking and uses thereof. Ramot Tel-Aviv University LTD, Tel-Hashomer Medical Research Infrastructure and Services LTD, Itzhaki-Alfia A, Barbash IM, Leor J. PCT/IL2008/000026.
2010	Closure device for cardiac surgery. Lore R, Ofir Y, Lederman RJ, Barbash IM. 61/382,931.

**C3. ACTIVE PARTICIPATION IN SCIENTIFIC MEETINGS**

<i>Date</i>	<i>Country</i>	<i>Subject / Meeting</i>	<i>Role</i> (Speaker, Member of Steering Committee, Active Participation etc.)
June 2000	Jerusalem, Israel	Intensive Cardiac Care 2 <sup>nd</sup> International meeting	Invited lecture
August 2004	Munich, Germany	European Society of Cardiology Congress	Abstract presentation
September 2005	Tel-Aviv, Israel	4 <sup>th</sup> International Meeting, Intensive Cardiac Care	Invited lecture
October 2006	Eilat, Israel	The 11 <sup>th</sup> Annual Meeting of The Israeli Society for Research, Prevention and Treatment of Atherosclerosis in Conjunction with The Frontiers in Cardiovascular Science	Invited lecture
October 2007	Tel-Aviv, Israel	5 <sup>th</sup> International Meeting, Intensive Cardiac Care	Invited lecture
December 2007	Tel-Aviv, Israel	Innovations in Cardiovascular Interventions	Invited lecture
February 2009	Washington DC	Cardiovascular Research Technologies 2009	Participation

Name: Israel M Barbash

Degree: MD

CV Updated: October 21, 2018

October 2009	Washington DC	Transcatheter Cardiovascular Therapeutics 2009	Participation
January 2010	Phoenix, AZ	Annual meeting of The Society for Cardiovascular Magnetic Resonance	Participation
February 2010	Washington DC	Cardiovascular Research Technologies 2010	Participation
February 2011	Washington DC	Cardiovascular Research Technologies 2011	Abstract presentation
February 2012	Washington DC	Cardiovascular Research Technologies 2012	Abstract presentation
March 2012	Chicago, IL	2012 Annual Scientific Session and ACC-i2 with TCT	Abstract presentation
October 2012	Miami, FL	Transcatheter Cardiovascular Therapeutics 2012	Abstract presentation
November 2012	Los Angeles, CA	American Heart Association Scientific Sessions	Abstract presentation
February 2013	Washington DC	Cardiovascular Research Technologies 2013	Faculty
May 2014	Paris, France	EuroPCR meeting	Abstract presentation
December 2014	Tel Aviv, Israel	Innovations in Cardiovascular Interventions	Participation
February 2015	Washington, DC	Cardiovascular Research Technologies 2015	Faculty
April 2015	Tel-Aviv, Israel	Israel Heart Society annual meeting	Participation
May 2015	Paris, France	EuroPCR meeting	Abstract presentation
December 2015	Tel Aviv, Israel	Innovations in Cardiovascular Interventions	Participation
February 2016	Washington, DC	Cardiovascular Research Technologies 2016	Faculty
April 2016	Tel-Aviv, Israel	Israel Heart Society annual meeting	Abstract presentation
December 2016	Tel Aviv, Israel	Innovations in Cardiovascular Interventions	Invited lecture
February 2017	Washington, DC	Cardiovascular Research Technologies 2017	Faculty
April 2017	Tel-Aviv, Israel	Israel Heart Society annual meeting	Participation
May 2017	Paris, France	EuroPCR meeting	Abstract presentation
August 2017	Barcelona, Spain	ESC Congress	Faculty
November 2017	Frankfurt, Germany	LAA CSI Focus	Participation

December 2017	Tel Aviv, Israel	Innovations in Cardiovascular Interventions	Participation
March 2018	Washington, DC	Cardiovascular Research Technologies 2018	Faculty
March 2018	Orlando, FL	ACC Scientific Sessions 2018	Faculty
June 2018	Tel Aviv	11th International Conference Acute Cardiac Care	Faculty

**C4. MEMBERSHIP IN PROFESSIONAL SOCIETIES**

<i>Years (period)</i>	<i>Name of Organization</i>
1998-present	Israel Society of Cardiology
2003-present	European Society of Cardiology
2007-2008	American Heart Association, Basic Science Council
2011-2013	American College of Cardiology

**D. DOCTORAL STUDENTS MENTORED BY CANDIDATE**

	<b>Name</b>	<b>Thesis</b>
1.	Michael Michlin	Evaluation of discrepancies on the echocardiographic and invasive hemodynamic evaluation of severity of aortic valve stenosis
2.	Yasmin Sharif	Anticoagulation after transcatheter aortic valve replacement
3.	Ariel Banai	Left atrial appendage occlusion for patients with end stage renal disease

**E. M.A./M.Sc. STUDENTS**

N/A

**F. GRANTS****PEER-REVIEWED RESEARCH GRANTS**

<b>Years</b>	<b>Investigator (Principal / other)</b>	<b>Granted by Institute/Company</b>	<b>Subject</b>	<b>Total Amount</b>	<b>Comments</b>
2001	PI: Barbash IM.	Itzhak Tiber Fund Research Grant, Tel- Aviv University.	Interventional MRI for Monitoring Changes in Morphology of Rat Heart Following Myocardial Infarction and Assessing Guided Percutaneous Gene Therapy.	\$3,000	
2001	PI: Barbash IM.	Itzhak Tiber Fund Research Grant, Tel- Aviv University.	Stem cell base therapy for myocardial regeneration.	\$3,000	
2003	PI: Barbash IM.	Nicholas and Elizabeth Slezak Super Center for Cardiac Research and Biomedical Engineering Research Grant, Tel Aviv University.	Stem cell base therapy for myocardial regeneration.	\$5,000	
2004	PI: Barbash IM.	The Israel Academy of Sciences and Humanities. The B. de Rothschild Fund for the Advancement of Science in Israel.		\$70,000	<i>A unique 3-year national Clinician-Investigator program to support young physicians in performing advanced bench to bedside research. 3-4 candidates are elected annually.</i>
2004		Israel Heart Society grant for participation in the European Society of Cardiology annual meeting.		\$1,500	
2008	Co- PI: Barbash IM.	European Commission, 7 <sup>th</sup> Framework Programme for Research and Technological Development.	<i>Therapy after myocardial infarction: Repair by stem and progenitor cell mobilization and transfer: Infarct Cell Therapy [HEALTH-F2-2009- 222995].</i>	€280,000	<i>European-based collaborative of small- scale focused research project (Total funding for 9 CoPIs X~280K = €2,700,000 for 3 years). The general objective of the project is to promote tissue repair after heart infarct and chronic ischemic heart disease. It</i>

*includes the identification and modification of key regulatory proteins of stem cell release, recruitment and activation, different adult and embryonic stem cell line preparations and the use of scaffolds to improve cell transfer and to achieve tissue engineering in vitro.*

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2014	PI: Barbash IM	Seymour Fefer Cardiovascular Research Grant	<i>Nanoparticle- based theranostics to detect and treat atherosclerosis in coronary arteries</i>	200,000 NIS
2014	PI: Barbash IM	Seymour Fefer Cardiovascular Research Grant	<i>Prediction of clinical outcome and left ventricular functional recovery after transcatheter aortic valve implantation in patients with impaired left ventricular function: Cardiac magnetic resonance imaging study</i>	40,000 NIS

## G. AWARDS

### ACADEMIC AWARDS

- 2001 Klapholtz Award for Cardiovascular Research, Tel Aviv University. Stem cell base therapy for myocardial regeneration.
- 2004 Neufeld prize. Israel Heart Society. Annual Meeting.
- 2006 The Talpiot Medical Leadership Program at the Sheba Medical Center. (\$2000)
- 2007 American Heart Association, Council on Basic Cardiovascular Sciences, New Investigator Travel Award. (\$500)

## H. Member of Editorial Board/ Reviewer (International Journals)

**SCIENTIFIC JOURNAL REVIEWS**

<b><i>Period</i></b>	<b><i>Journal</i></b>
2009-present	American Journal of Cardiology
2009-2011	Cardiovascular Research
2009-present	European Heart Journal
2009	Heart Journal
2011-present	Cardiovascular Revascularization Medicine
2014-present	Catheterization and Cardiovascular Interventions
2014-present	EuroIntervention
2016-present	European Heart of Heart Failure
2016-present	PLOS One
2016-present	Harefuah
2017-present	Expert Review of Cardiovascular Therapy
2018-present	The Israel Medical Association Journal (IMAJ)

**MEMBER OF EDITORIAL BOARD**

2018-present	Cardiovascular Revascularization Medicine
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**SCIENTIFIC PUBLICATIONS****B.1. ORIGINAL ARTICLES****B.1. Articles Published**

- B1-1** **Barbash IM**, Halperin P, Rot A, Hod H, Barbash GI.  
Comparison of Baseline Characteristics and Outcome of Patients with Chest Pain Brought to the Hospital by Private Versus Public Mobile Intensive Care Units.  
**J Thromb Thrombolysis**. 1998 Nov;6(3):207-209. PubMed PMID: 10751803.  
Impact Factor of 1.985 (HEMATOLOGY 44/67, Q3 and PERIPHERAL VASCULAR DISEASE 39/68, Q3).  
Times Cited: 0
- B1-2** **Barbash IM**, Ilia R, Gilutz H, Boyko V, Battler A, Leor J.  
Cardiogenic shock: single center experience with and without on-site catheterization facilities.  
**Cardiology**. 2000;93(1-2):87-92. PubMed PMID: 10894912.  
Impact Factor of 1.519 (CARDIAC & CARDIOVASCULAR SYSTEMS 71/124, Q3)  
Times Cited: 1
- B1-3** Leor J, Aboulafia-Etzion S, Dar A, Shapiro L, **Barbash IM**, Battler A, Granot Y, Cohen S.  
Bioengineered cardiac grafts: A new approach to repair the infarcted myocardium?  
**Circulation**. 2000 Nov 7;102(19 Suppl 3):III56-61. PubMed PMID: 11082363.  
Impact Factor of 15.202 (CARDIAC & CARDIOVASCULAR SYSTEMS 1/124, Q1 or PERIPHERAL VASCULAR DISEASE 1/68, Q1)  
Times Cited: 275
- B1-4** **Barbash IM**, Hasdai D, Behar S, Boyko V, Gottlieb S, Ilia R, Battler A, Leor J; Israeli Thrombolytic Survey Group.  
Usefulness of pre- versus postadmission cardiogenic shock during acute myocardial infarction in predicting survival.  
**Am J Cardiol**. 2001 May 15;87(10):1200-3; A7. PubMed PMID: 11356399.  
Impact Factor of 3.209 in (CARDIAC & CARDIOVASCULAR SYSTEMS 38/124, Q2)  
Times Cited: 4
- B1-5** Etzion S, Battler A, **Barbash IM**, Cagnano E, Zarin P, Granot Y, Kedes LH, Kloner RA, Leor J.  
Influence of embryonic cardiomyocyte transplantation on the progression of heart failure in a rat model of extensive myocardial infarction.  
**J Mol Cell Cardiol**. 2001 Jul;33(7):1321-30. PubMed PMID: 11437538.  
Impact Factor of 5.148. (CARDIAC & CARDIOVASCULAR SYSTEMS 18/124, Q1 or CELL BIOLOGY 45/185, Q1)  
Times Cited: 135
- B1-6** **Barbash IM**, Behar S, Battler A, Hasdai D, Boyko V, Gottlieb S, Leor J.  
Management and outcome of cardiogenic shock complicating acute myocardial infarction in hospitals with and without on-site catheterisation facilities.  
**Heart**. 2001 Aug;86(2):145-9. PubMed PMID: 11454827.  
Impact Factor of 5.014 (CARDIAC & CARDIOVASCULAR SYSTEMS 22/124, Q1)  
Times Cited: 9

- B1-7** **Barbash IM**, Freimark D, Gottlieb S, Hod H, Hasin Y, Battler A, Crystal E, Matetzky S, Boyko V, Mandelzweig L, Behar S, Leor J; Israeli working group on intensive cardiac care, Israel heart society. Outcome of myocardial infarction in patients treated with aspirin is enhanced by pre-hospital administration.  
**Cardiology**. 2002;98(3):141-7. PubMed PMID: 12417813.  
Impact Factor of 1.519 (CARDIAC & CARDIOVASCULAR SYSTEMS 71/124, Q3)  
Times Cited: 27
- B1-8** **Barbash IM**, Battler A, Behar S, Boyko V, Gottlieb S, Hasdai D, Leor J; Israeli Thrombolytic Survey Group.  
Aspirin and percutaneous coronary angioplasty are associated with a decline in mortality from cardiogenic shock. Results from a national Israeli survey, 1992--1998.  
**Cardiology**. 2001;95(3):119-25. PubMed PMID: 11474156.  
Impact Factor of 1.519 (CARDIAC & CARDIOVASCULAR SYSTEMS 71/124, Q3)  
Times Cited: 3
- B1-9** Freimark D, Matetzky S, Leor J, Boyko V, **Barbash IM**, Behar S, Hod H.  
Timing of aspirin administration as a determinant of survival of patients with acute myocardial infarction treated with thrombolysis.  
**Am J Cardiol**. 2002 Feb 15;89(4):381-5. PubMed PMID: 11835915.  
Impact Factor of 3.209 (CARDIAC & CARDIOVASCULAR SYSTEMS 38/124, Q2)  
Times Cited: 27
- B1-10** Etzion S, **Barbash IM**, Feinberg MS, Zarin P, Miller L, Guetta E, Holbova R, Kloner RA, Kedes LH, Leor J.  
Cellular cardiomyoplasty of cardiac fibroblasts by adenoviral delivery of MyoD ex vivo: an unlimited source of cells for myocardial repair.  
**Circulation**. 2002 Sep 24;106(12 Suppl 1):I125-30. PubMed PMID: 12354721.  
Impact Factor of 15.202 (CARDIAC & CARDIOVASCULAR SYSTEMS 1/124, Q1)  
Times Cited: 3
- B1-11** **Barbash IM**, Chouraqui P, Baron J, Feinberg MS, Etzion S, Tessone A, Miller L, Guetta E, Zipori D, Kedes LH, Kloner RA, Leor J.  
Systemic delivery of bone marrow-derived mesenchymal stem cells to the infarcted myocardium: feasibility, cell migration, and body distribution.  
**Circulation**. 2003 Aug 19;108(7):863-8. PubMed PMID: 12900340.  
Impact Factor of 15.202 (CARDIAC & CARDIOVASCULAR SYSTEMS 1/124, Q1)  
Times Cited: 463
- B1-12** **Barbash IM**, Leor J, Feinberg MS, Tessone A, Aboulafia-Etzion S, Orenstein A, Ruiz-Cabello J, Cohen JS, Mardor Y.  
Interventional magnetic resonance imaging for guiding gene and cell transfer in the heart.  
**Heart**. 2004 Jan;90(1):87-91. PubMed PMID: 14676253.  
Impact Factor of 5.014 (CARDIAC & CARDIOVASCULAR SYSTEMS 22/124, Q1)  
Times Cited: 16
- B1-13** Leor J, Guetta E, Feinberg MS, Galski H, Bar I, Holbova R, Miller L, Zarin P, Castel D, **Barbash IM**, Nagler A.  
Human umbilical cord blood-derived CD133+ cells enhance function and repair of the infarcted myocardium.  
**Stem Cells**. 2006 Mar;24(3):772-80. Erratum in: Stem Cells. 2006 Jun;24(6):1627. PubMed PMID: 16195418.

Impact Factor of 7.701 (BIOTECHNOLOGY & APPLIED MICROBIOLOGY 8/160, Q1 or CELL & TISSUE ENGINEERING 2/17, Q1 or CELL BIOLOGY 27/185, Q1 or HEMATOLOGY 4/67, Q1 or ONCOLOGY 14/197, Q1)

Times Cited: 66

- B1-14** Tessone A, Feinberg MS, **Barbash IM**, Reich R, Holbova R, Richmann M, Mardor Y, Leor J. Effect of matrix metalloproteinase inhibition by doxycycline on myocardial healing and remodeling after myocardial infarction. **Cardiovasc Drugs Ther.** 2005 Dec;19(6):383-90. PubMed PMID: 16435072. Impact Factor of 2.673 (CARDIAC & CARDIOVASCULAR SYSTEMS 48/124, Q2 or PHARMACOLOGY & PHARMACY 99/261, Q2) Times Cited: 15
- B1-15** Leor J, Rozen L, Zulloff-Shani A, Feinberg MS, Amsalem Y, **Barbash IM**, Kachel E, Holbova R, Mardor Y, Daniels D, Ocherashvilli A, Orenstein A, Danon D. Ex vivo activated human macrophages improve healing, remodeling, and function of the infarcted heart. **Circulation.** 2006 Jul 4;114(1 Suppl):I94-100. PubMed PMID: 16820652. Impact Factor of 15.202 (CARDIAC & CARDIOVASCULAR SYSTEMS 1/124, Q1) Times Cited: 27
- B1-16** Tessone A, Gottlieb S, **Barbash IM**, Garty M, Porath A, Tenenbaum A, Hod H, Boyko V, Mandelzweig L, Behar S, Leor J. Underuse of standard care and outcome of patients with acute myocardial infarction and chronic renal insufficiency. **Cardiology.** 2007;108(3):193-9. PubMed PMID: 17095865. Impact Factor of 1.519 (CARDIAC & CARDIOVASCULAR SYSTEMS 71/124, Q3) Times Cited: 14
- B1-17** Amsalem Y, Mardor Y, Feinberg MS, Landa N, Miller L, Daniels D, Ocherashvilli A, Holbova R, Yosef O, **Barbash IM**, Leor J. Iron-oxide labeling and outcome of transplanted mesenchymal stem cells in the infarcted myocardium. **Circulation.** 2007 Sep 11;116(11 Suppl):I38-45. PubMed PMID: 17846324. Impact Factor of 15.202 (CARDIAC & CARDIOVASCULAR SYSTEMS 1/124, Q1) Times Cited: 45
- B1-18** Barsheshet A, Hod H, Shechter M, Sharabani-Yosef O, Rosenthal E, **Barbash IM**, Matetzky S, Tal R, Bentancur AG, Sela BA, Nagler A, Leor J. The effects of external counter pulsation therapy on circulating endothelial progenitor cells in patients with angina pectoris. **Cardiology.** 2008;110(3):160-6. PubMed PMID: 18057883. Impact Factor of 1.519 (CARDIAC & CARDIOVASCULAR SYSTEMS 71/124, Q3) Times Cited: 9
- B1-19** Itzhaki-Alfia A, Leor J, Raanani E, Sternik L, Spiegelstein D, Netser S, Holbova R, Pevsner-Fischer M, Lavee J, **Barbash IM**. Patient characteristics and cell source determine the number of isolated human cardiac progenitor cells. **Circulation.** 2009 Dec 22;120(25):2559-66. PubMed PMID: 19996019. Impact Factor of 15.202 (CARDIAC & CARDIOVASCULAR SYSTEMS 1/124, Q1) Times Cited: 43

- B1-20** **Barbash IM**, Saikus CE, Ratnayaka K, Faranesh AZ, Kocaturk O, Wu V, Bell JA, Schenke WH, Raman VK, Lederman RJ.  
Limitations of closing percutaneous transthoracic ventricular access ports using a commercial collagen vascular closure device.  
**Catheter Cardiovasc Interv.** 2011 Jun 1;77(7):1079-85. PubMed PMID: 21234923.  
Impact Factor of 2.514 (CARDIAC & CARDIOVASCULAR SYSTEMS 55/124, Q2)  
Times Cited: 3
- B1-21** Wu V, **Barbash IM**, Ratnayaka K, Saikus CE, Sonmez M, Kocaturk O, Lederman RJ, Faranesh AZ.  
Adaptive noise cancellation to suppress electrocardiography artifacts during real-time interventional MRI.  
**J Magn Reson Imaging.** 2011 May;33(5):1184-93. PubMed PMID: 21509878.  
Impact Factor of 2.566 (RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING 38/120, Q2)  
Times Cited: 4
- B1-22** Ben-Dor I, Gaglia MA Jr, **Barbash IM**, Maluenda G, Hauville C, Gonzalez MA, Sardi G, Laynez-Carnicero A, Torguson R, Okubagzi P, Xue Z, Goldstein SA, Suddath WO, Kent KM, Lindsay J, Satler LF, Pichard AD, Waksman R.  
Comparison between Society of Thoracic Surgeons score and logistic EuroSCORE for predicting mortality in patients referred for transcatheter aortic valve implantation.  
**Cardiovasc Revasc Med.** 2011 Nov-Dec;12(6):345-9. PubMed PMID: 21741324.  
(No Impact Factor)  
Times Cited: 35
- B1-23** **Barbash IM**, Schenke WH, Halabi M, Ratnayaka K, Faranesh AZ, Kocaturk O, Lederman RJ.  
Experimental model of large pulmonary embolism employing controlled release of subacute caval thrombus in swine.  
**J Vasc Interv Radiol.** 2011 Oct;22(10):1471-7. PubMed PMID: 21802315.  
Impact Factor of 2.002 (RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING 48/120, Q2)  
Times Cited: 0
- B1-24** Maluenda G, Ben-Dor I, Laynez-Carnicero A, **Barbash IM**, Sardi G, Gaglia MA Jr, Mitulescu L, Torguson R, Goldstein SA, Wang Z, Suddath WO, Kent KM, Satler LF, Pichard AD, Waksman R.  
Changes in mitral regurgitation after balloon aortic valvuloplasty.  
**Am J Cardiol.** 2011 Dec 15;108(12):1777-82. PubMed PMID: 21924392.  
Impact Factor of 3.209 (CARDIAC & CARDIOVASCULAR SYSTEMS 38/124, Q2)  
Times Cited: 2
- B1-25** Saikus CE, Ratnayaka K, **Barbash IM**, Colyer JH, Kocaturk O, Faranesh AZ, Lederman RJ.  
MRI-guided vascular access with an active visualization needle.  
**J Magn Reson Imaging.** 2011 Nov;34(5):1159-66. PubMed PMID: 22006552.  
Impact Factor of 2.566 (RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING 38/120, Q2)  
Times Cited: 4
- B1-26** Maluenda G, Ben-Dor I, **Barbash IM**, Corso PJ, Boyce SW, Satler LF, Pichard AD, Waksman R.  
Fluoroscopy use and left anterior descending artery angiography to guide transapical access in patients with prior cardiac surgery.  
**Cardiovasc Revasc Med.** 2012 Mar-Apr;13(2):106-10. PubMed PMID: 22177612.  
(No Impact Factor)  
Times Cited: 0

- B1-27** **Barbash IM**, Saikus CE, Faranesh AZ, Ratnayaka K, Kocaturk O, Chen MY, Bell JA, Virmani R, Schenke WH, Hansen MS, Slack MC, Lederman RJ.  
Direct percutaneous left ventricular access and port closure: pre-clinical feasibility.  
**JACC Cardiovasc Interv.** 2011 Dec;4(12):1318-25. PubMed PMID: 22192372.  
Impact Factor of 6.552 (CARDIAC & CARDIOVASCULAR SYSTEMS 8/124, Q1)  
Times Cited: 6
- B1-28** Ratnayaka K, Saikus CE, Faranesh AZ, Bell JA, **Barbash IM**, Kocaturk O, Reyes CA, Sonmez M, Schenke WH, Wright VJ, Hansen MS, Slack MC, Lederman RJ.  
Closed-chest transthoracic magnetic resonance imaging-guided ventricular septal defect closure in swine.  
**JACC Cardiovasc Interv.** 2011 Dec;4(12):1326-34. PubMed PMID: 22192373.  
Impact Factor of 6.552 (CARDIAC & CARDIOVASCULAR SYSTEMS 8/124, Q1)  
Times Cited: 7
- B1-29** Waksman R, **Barbash IM**, Dvir D, Torguson R, Ben-Dor I, Maluenda G, Xue Z, Satler LF, Suddath WO, Kent KM, Pichard AD.  
Safety and efficacy of the XIENCE V everolimus-eluting stent compared to first-generation drug-eluting stents in contemporary clinical practice.  
**Am J Cardiol.** 2012 May 1;109(9):1288-94. PubMed PMID: 22341925.  
Impact Factor of 3.209 (CARDIAC & CARDIOVASCULAR SYSTEMS 38/124, Q2)  
Times Cited: 7
- B1-30** **Barbash IM**, Ben-Dor I, Torguson R, Maluenda G, Xue Z, Gaglia MA Jr, Sardi G, Satler LF, Pichard AD, Waksman R.  
Clinical predictors for failure of percutaneous coronary intervention in ST-elevation myocardial infarction.  
**J Interv Cardiol.** 2012 Apr;25(2):111-7. PubMed PMID: 22372924.  
Impact Factor of 1.500 (CARDIAC & CARDIOVASCULAR SYSTEMS 73,124, Q3)  
Times Cited: 1
- B1-31** Laynez A, Sardi G, Hauville C, **Barbash IM**, Pakala R, Torguson R, Xue Z, Satler LF, Pichard AD, Waksman R.  
Safety and efficacy of everolimus-eluting stents versus paclitaxel-eluting stents in a diabetic population.  
**Catheter Cardiovasc Interv.** 2013 Apr;81(5):759-65. PubMed PMID: 22488756.  
Impact Factor of 2.514 (CARDIAC & CARDIOVASCULAR SYSTEMS 55/124, Q2)  
Times Cited: 3
- B1-32** **Barbash IM**, Cecchini S, Faranesh AZ, Virag T, Li L, Yang Y, Hoyt RF, Kornegay JN, Bogan JR, Garcia L, Lederman RJ, Kotin RM.  
MRI roadmap-guided transendocardial delivery of exon-skipping recombinant adeno-associated virus restores dystrophin expression in a canine model of Duchenne muscular dystrophy.  
**Gene Ther.** 2013 Mar;20(3):274-82. PubMed PMID: 22551778.  
Impact Factor of 4.321 (BIOCHEMISTRY & MOLECULAR BIOLOGY 70/290, Q1 or BIOTECHNOLOGY & APPLIED MICROBIOLOGY 22/160, Q1 or GENETICS & HEREDITY 33/161, Q1 or MEDICINE, RESEARCH & EXPERIMENTAL 25/121, Q1)  
Times Cited: 1
- B1-33** Bell JA, Saikus CE, Ratnayaka K, **Barbash IM**, Faranesh AZ, Franson DN, Sonmez M, Slack MC, Lederman RJ, Kocaturk O.

Active delivery cable tuned to device deployment state: enhanced visibility of nitinol occluders during preclinical interventional MRI.

**J Magn Reson Imaging.** 2012 Oct;36(4):972-8. PubMed PMID: 22707441.

Impact Factor of 2.566 (RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING 38/120, Q2)

Times Cited: 1

- B1-34** **Barbash IM**, Ben-Dor I, Dvir D, Maluenda G, Xue Z, Torguson R, Satler LF, Pichard AD, Waksman R. Incidence and predictors of acute kidney injury after transcatheter aortic valve replacement. **Am Heart J.** 2012 Jun;163(6):1031-6. PubMed PMID: 22709757.  
Impact Factor of 4.497 (CARDIAC & CARDIOVASCULAR SYSTEMS 23/124, Q1)  
Times Cited: 11
- B1-35** Ben-Dor I, Dvir D, **Barbash IM**, Okubagzi P, Torguson R, Xue Z, Lindsay J, Satler LF, Pichard AD, Waksman R.  
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- B1-71** Hamdan A, Wellnhofer E, Konen E, Kelle S, Goitein O, Andrada B, Raanani E, Segev A, **Barbash IM**, Klempfner R, Goldenberg I, Guetta V.  
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- B1-77** Berkovitch A, Segev A, **Barbash IM**, Grossman Y, Maor E, Erez A, Regev E, Fink N, Mazin I, Hamdan A, Goldenberg I, Hay I, Spiegelstien D, Guetta V, Fefer P.  
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- B1-78** Bogdan A\*, **Barbash IM\*** [**\* Equal contribution**], Fefer P, Segev A, Bogdan SN, Asher E, Fink N, Hamdan A, Spiegelstein D, Raanani E, Guetta V.  
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- B1-79** **Barbash IM**, Finkelstein A, Barsheshet A, Segev A, Halkin A, Assali A, Ben Gal Y, Vaknin Assa H, Fefer P, Sagie A, Guetta V, Kornowski R.  
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- B1-80** Halkin A, Steinvil A, Witberg G, Barsheshet A, Barkagan M, Assali A, Segev A, Fefer P, Guetta V, **Barbash IM**, Kornowski R, Finkelstein A.  
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- B1-83** Finkelstein A, Minha S, Kornowski R, Danenberg H, Banai S, Lotan H, Segev A, **Barbash IM**.  
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**J Am Geriatr Soc.** 2017 Nov;65(11):2413-2417. PMID: 28941287
- B1-86** Graham Cummiskey A, Segev A, Segel M, Buber J, Guetta V, **Barbash IM**, Elian D, Asher E, Vaturi O, Fefer P.  
Exercise Hemodynamics for the Diagnosis of Diastolic Dysfunction in Dyspneic Patients with Systemic Sclerosis.  
**Isr Med Assoc J.** 2018 Apr;20(4):245-249. PMID: 29629733
- B1-87** Berkovitch A, Guetta V, **Barbash IM**, Fink N, Regev E, Maor E, Vered Y, Grossman Y, Younis A, Kuperstein R, Feinberg M, Asher E, Segev A, Fefer P.  
Favorable Short-Term and Long-Term Outcomes Among Patients With Prior History of Malignancy Undergoing Transcatheter Aortic Valve Implantation.  
**J Invasive Cardiol.** 2018 Mar;30(3):105-109. PMID: 29493511
- B1-88** Fefer P, Bogdan A, Grossman Y, Berkovitch A, Brodov Y, Kuperstein R, Segev A, Guetta V, **Barbash IM**.  
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**J Am Heart Assoc.** 2018 Jul 9;7(14). PMID: 29987119

### **B.1. Articles Accepted**

**B1-**

**B.1. Articles Submitted**

B1-

**B.2. CASE REPORTS****B.2. Case Reports published**

- B2-1** Barbash IM, Waksman R, Kent KM.  
Utilization of intravascular ultrasound to accurately position stents in true aorto-ostial lesions.  
Cardiovasc Revasc Med. 2012 Nov-Dec;13(6):353-6. PubMed PMID: 23084323.  
(No Impact Factor)  
Times Cited: 1
- B2-2** Erez A, Barbash IM, Spiegelstein D, Kogan A, Hamdan A, Shinfeld A, Preisman S, Segev A.  
Extrinsic compression of the left main coronary artery by a contained aortic annular rupture following trans-catheter aortic valve implantation.  
Cardiovasc Revasc Med. 2015 Jul-Aug;16(5):313-6. PubMed PMID: 26100974.  
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- B2-3** Barbash IM, Bogdan A, Fefer P, Spiegelstein D, Raanani E, Beinart R, Guetta V, Segev A.  
How should I treat: A balloon expandable transcatheter heart valve that migrated to the left ventricular outflow tract.  
Eurointervention. 2016 Mar;11(12):1442-5. PMID: 26999684  
Impact Factor of 3.173 (CARDIAC & CARDIOVASCULAR SYSTEMS 40/124, Q2)

**B.2. Case Reports Accepted**

B2-

**B.3. REVIEW ARTICLES****B.3. Review Articles Published**

- B3-1** Aboulaflia-Etzion S, Leor J, Barbash IM, Battler A.  
Fixing a failing heart: molecular and cellular approaches.  
Harefuah. 1999 Feb 15;136(4):284-8. Review. Hebrew. PubMed PMID: 10914220.  
(No Impact Factor)  
Times Cited: 2
- B3-2** Barbash IM, Gottlieb S, Goldbourt U, Behar S, Leor J.  
Aspirin and ACE-inhibitors: for wedding or funeral?  
J Thromb Thrombolysis. 2001 Apr;11(2):163-9. Review. PubMed PMID: 11406732.  
Impact Factor of 1.985 (HEMATOLOGY 44/67, Q3 or PERIPHERAL VASCULAR DISEASE 39/68, Q3)  
Times Cited: 1
- B3-3** Barbash IM, Goldbourt U, Gottlieb S, Behar S, Leor J.

- Possible interaction between aspirin and ACE inhibitors: update on unresolved controversy.  
**Congest Heart Fail.** 2000 Nov-Dec;6(6):313-318. PubMed PMID: 12189336.  
(No Impact Factor)  
Times Cited: 1
- B3-4** Leor J, **Barbash IM.**  
Cell transplantation and genetic engineering: new approaches to cardiac pathology.  
**Expert Opin Biol Ther.** 2003 Oct;3(7):1023-39. Review. PubMed PMID: 14519068.  
Impact Factor of 3.345 (BIOTECHNOLOGY & APPLIED MICROBIOLOGY 38/160, Q1)  
Times Cited: 5
- B3-5** **Barbash IM,** Leor J.  
Myocardial regeneration by adult stem cells.  
**Isr Med Assoc J.** 2006 Apr;8(4):283-7. Review. PubMed PMID: 16671368.  
Impact Factor of 0.978 (MEDICINE, GENERAL & INTERNAL 83/155, Q3)  
Times Cited: 3
- B3-6** **Barbash IM,** Waksman R.  
Current status, challenges and future directions of drug-eluting balloons.  
**Future Cardiol.** 2011 Nov;7(6):765-74. Review. PubMed PMID: 22050063.  
(No Impact Factor)  
Times Cited: 6
- B3-7** **Barbash IM,** Waksman R.  
Overview of the 2011 Food and Drug Administration Circulatory System Devices Panel of the Medical Devices Advisory Committee Meeting on the Edwards SAPIEN™ transcatheter heart valve.  
**Circulation.** 2012 Jan 24;125(3):550-5. PubMed PMID: 22271848.  
Impact Factor of 15.202 (CARDIAC & CARDIOVASCULAR SYSTEMS 1/124, Q1)  
Times Cited: 3
- B3-8** Dvir D, **Barbash IM,** Ben-Dor I, Okubagzi P, Satler LF, Waksman R, Pichard AD.  
The development of transcatheter aortic valve replacement in the USA.  
**Arch Cardiovasc Dis.** 2012 Mar;105(3):160-4. Epub 2012 Mar 17. Review. PubMed PMID: 22520799.  
Impact Factor of 1.662 (CARDIAC & CARDIOVASCULAR SYSTEMS 67/124, Q3)  
Times Cited: 1
- B3-9** Loh JP, **Barbash IM,** Waksman R.  
Overview of the 2011 Food and Drug Administration Circulatory System Devices Panel of the Medical Devices Advisory Committee Meeting on the CardioMEMS Champion Heart Failure Monitoring System.  
**J Am Coll Cardiol.** 2013 Apr 16;61(15):1571-6. Review. PubMed PMID: 23352783.  
Impact Factor of 14.086 (CARDIAC & CARDIOVASCULAR SYSTEMS 3/124, Q1)  
Times Cited: 0
- B3-10** **Barbash IM,** Dvir D, Waksman R.  
Overview of the 2012 Food and Drug Administration Circulatory System Devices Panel of the Medical Devices Advisory Committee meeting on the Edwards SAPIEN transcatheter heart valve for high-risk aortic stenosis patients.  
**Am Heart J.** 2013 May;165(5):710-5. PubMed PMID: 23622907.  
Impact Factor of 4.497 (CARDIAC & CARDIOVASCULAR SYSTEMS 23/124, Q1)  
Times Cited: 0
- B3-11** Dvir D, **Barbash IM,** Ben-Dor I, Torguson R, Badr S, Minha S, Pendyala LK, Loh JP, Pichard AD, Waksman R.  
Paravalvular regurgitation after transcatheter aortic valve replacement: diagnosis, clinical outcome, preventive and therapeutic strategies.  
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(No Impact Factor)  
Times Cited: 1

- B3-12** **Barbash IM**, Waksman R.  
Sympathetic renal denervation: hypertension beyond SYMPLICITY.  
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(No Impact Factor)  
Times Cited: 1
- B3-13** Loh JP, **Barbash IM**, Waksman R.  
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Impact Factor of 3.173 (CARDIAC & CARDIOVASCULAR SYSTEMS 40/124, Q2)  
Times Cited: 0

## C. CHAPTERS IN BOOKS

- C-1** Leor J, **Barbash IM**, Battler A, Kloner RA.  
Treatment of cardiogenic shock: Future perspectives.  
In: Holmes D, Hasdai D, Battler A, Berger P.  
**Cardiogenic shock: diagnosis and management**.  
The Humana Press, Totowa NJ. 2002.
- C-2** **Barbash IM**, Dvir D, Weigold WG, Satler LF, Waksman R, Pichard AD.  
Trans-catheter aortic valve replacement in patients with chronic kidney disease: Pre-procedural assessment and procedural techniques to minimize risk for acute kidney injury.  
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**Multimodality Imaging for Transcatheter Aortic Valve Replacement**.  
Springer Publishing Company, New York, NY. 2014.
- C-3** Baker N, **Barbash IM**, Waksman R.  
NOVOSTE: The Brachytherapy Approach to Renal Denervation.  
In: Heuser R, Schlaich M, Sievert H.  
**Renal Denervation: A New Approach to Treatment of Resistant Hypertension**.  
Springer Publishing Company, New York, NY. 2014.
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## D.1. INVITED PAPERS IN SCIENTIFIC MEETINGS

### INVITED LECTURES IN SCIENTIFIC MEETINGS

- D1-1 **Barbash IM**.  
Cardiogenic Shock: Israel Experience. Intensive Cardiac Care 2<sup>nd</sup> International meeting, Jerusalem, Israel. June 2000.
- D1-2 **Barbash IM**.  
Options for cell therapy and cardiac repair. European Society of Cardiology Congress, Munich, Germany. August 2004.
- D1-3 **Barbash IM**.  
Cell Therapy – Overview. 4<sup>th</sup> International Meeting, Intensive Cardiac Care, Tel-Aviv, Israel, September 2005.
- D1-4 **Barbash IM**.  
Cardiac Stem Cells and Their Role in Myocardial Regeneration. The 11<sup>th</sup> Annual Meeting of The Israeli Society for Research, Prevention and Treatment of Atherosclerosis in Conjunction with The Frontiers in Cardiovascular Science. Eilat, Israel. October 2006.

- D1-5 Barbash IM.  
Cardiac Stem Cells. 5<sup>th</sup> International Meeting, Intensive Cardiac Care, Tel-Aviv, Israel. October 2007.
- D1-6 Barbash IM.  
Resident Cardiac Stem Cells and Their Role in Myocardial Regeneration and Repair. Innovations in Cardiovascular Interventions, Tel-Aviv, Israel. December 2007.
- D1-7 Barbash IM  
How to build a successful TAVI research program. CRT 2013 meeting. Washington DC. February 2013.
- D1-8 Barbash IM  
Mitral Innovations for Treating MR: The Israeli Experience. CRT 2015 meeting. Washington DC. February 2015.
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## D.2. PAPERS PRESENTED AT SCIENTIFIC MEETINGS PUBLISHED AS ABSTRACTS

### ABSTRACTS PRESENTED AT INTERNATIONAL MEETINGS

- D3-1. Barbash IM, Leor J, Ilia R, Battler A. *Cardiac catheterization facilities and outcome after cardiogenic shock: some bad news, some good news.* *Eur Heart J* 1997. 18: 173A.
- D3-2. Barbash IM, Behar S, Battler A, Boyko V, Gottlieb S, Leor J For The Israeli Thrombolytic Survey Group. *On-site catheterization facilities improve the outcome of unselected patients with cardiogenic shock.* *J Am Coll Cardiol* 1998. 31:13A.
- D3-3. Leor J, Aboulafia-Etzion S, Barbash IM, Rovner M, Rosenstein G, Battler A. *Influence of fetal cardiomyocyte transplantation on the progression of heart failure.* *J Moll Cell Cardiol* 1998;30:A23.
- D3-4. Barbash IM, Leor J, Battler A, Boyko V, Gottlieb S, Behar S for the Israeli Thrombolytic Survey Group. *Trends in management and prognosis of unselected myocardial infarction patients with cardiogenic shock: A national study.* *Journal of the Israel Heart Society*, 1998. Supp: 9.
- D3-5. Barbash IM, Behar S, Battler A, Boyko V, Gottlieb S, Leor J for the Israeli Thrombolytic Survey Group. *On-site catheterization facilities improve the outcome of unselected patients with cardiogenic shock.* *Journal of the Israel Heart Society*, 1998. Supp: 17.
- D3-6. Leor J, Aboulafia-Etzion S, Shapiro L, Barbash IM, Battler A, Granot Y, Cohen S. *Bioengineered grafts to repair the infarcted myocardium.* *Eur Heart J* 1999.20:29 (340).
- D3-7. Aboulafia-Etzion S, Leor S, Barbash IM, Manor O, Granot Y, Battler A. *Cardiomyoblast-mediated ex vivo gene transfer into the infarcted myocardium.* *Eur Heart J* 1999.20:374.
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- D3-14. Mardor Y, Barbash IM, Feinberg MS, Tessone A, Aboulafia-Etzion S, Orenstein A, Ruiz-Cabello J, Cohen JS, Leor J. *Interventional MRI For Monitoring Changes in Morphology of Rat Heart Following Myocardial Infarction and Assessing Guided Percutaneous Therapy.* 9th scientific

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Degree: MD

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