

CURRICULUM VITAE

April 1st, 2026

NERI MESHULAM COHEN

Birth Date: February 21, 1961
Birthplace: Washington, DC
Marital Status: married - Ilene Gudelsky Cohen (06-08-86)
Children: Dena Cohen Blaustein (12-10-88)
Joel Alexander Cohen (11-01-91)

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Current Position

President
Center for Healthcare Innovation
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HONORS AND AWARDS

- 1980-1982 * Dean's List - Northwestern University,
- 1981-1982 * Honors Masters Program (combined BA/MS degree)
Northwestern University Graduate School.
- 1982-1988 * Medical Scientist Program (combined MD/PhD degree)
University of Maryland Medical School
- 1986 * Medical Student Research Day - First Place Prize
University of Maryland Medical School
- 1992 * Lazer J. Greenfield Award - Humera Surgical Society
- 1992-1993 * Searle Award for Electrophysiology Fellows
North American Society of Pacing and Electrophysiology
- 1993 * Bigger-Lehman Award - The Virginia Surgical Society
- 1994 * ACC/Bristol-Myers Squibb Affiliate Travel Award; American College of Cardiology
- 1995 * Alpha Omega Alpha Honor Medical Society
- 1999 * Clinical Trials Methods Course - American College of Surgeons
- 2000 * Hume Muller Award - Virginia Surgical Society
- 2000 * "Top Doctors in Richmond as Chosen by their Peers – Thoracic Surgery"
Richmond Magazine
- 2001 * Voted one of America's "Top Doctors as Chosen by their Peers – Thoracic Surgery"
Center for the Study of Services – Consumers' Checkbook
- 2001-2 * Joel J. Roslyn Faculty Research Award
Association for Academic Surgery / *Journal of Surgical Research*
- 2005 * Brandeis University Leadership Program in Health Policy & Management
Alley-Sheridan Scholar; Thoracic Surgery Foundation for Research & Education
- 2007 * Cambridge's Who's Who Among Executives & Professionals - VIP Member
- 2007-2019 * America's Top Surgeons – Selected by Consumers' Research Council of America
- 2008-2019 * Top Doctors in Baltimore as Chosen by their Peers – Thoracic Surgery
Baltimore Magazine
- 2011-2021 * Voted one of America's Top Doctors – Selected by Castle Connolly Medical Inc.
- 2011-2021 * America's Top Doctors (Top 1%) – Selected by US News & World Report.
- 2018-2021 * America's Most Honored Professionals (Top 5%) – The American Registry
- 2012-2013 * SuperDoctors – Selected by The Washington Post
- 2012 * Winner Health IT Innovation Exchange Award – World Healthcare Innovation and Technology Congress.
- 2016-2017 * Voted as a Top Surgeon in Baltimore – International Association of HealthCare Professionals (IAHCP)
- 2019-2021 * HIMSS Davies Award –
"Leveraging Data & Technology to Improve Surgical Site Infection Rates" (2019)
"Using Clinical Decision Support to Improve Pneumococcal Vaccination Administration Rates in the Ambulatory Setting" (2020)
"Using the Electronic Health Record to Innovate the Multidisciplinary Tumor Board" (2021)
- 2020 * Malcolm Baldrige National Quality Award for Performance Excellence (GBMC)
- 2022 * Brooks-Lower Visiting Professor (VCUHS)
- 2023 * TIME Magazine Best Inventions of 2023 (Bayesian Health) "Targeted Real-Time Early Warning System (TREWS) (Sepsis)"
- 2024 * TIME Magazine Best Inventions of 2024 (Bayesian Health) "AI-powered Bedsore Prevention"

EDUCATION, TRAINING AND EMPLOYMENT

1978-1982 **BA** (with Honors)
Biochemistry and Molecular Biology
Northwestern University

1981-1982 **MS** (with Honors)
Neurobiology and Physiology
"Independence of cholinergic- and histamine-stimulated increases in phosphatidylinositol turnover in neuron-like cloned cell lines."
Thesis advisor: WL Klein, PhD
Northwestern University Graduate School

1982-1986 **PhD**
Physiology
"The calcium current of neonatal and adult rat single ventricular heart muscle cells."
Thesis advisor: WJ Lederer, MD, PhD
University of Maryland Graduate School

1982-1988 **MD**
University of Maryland at Baltimore
School of Medicine

1989-1996 **Internship & Residency**
General Surgery
Department of Surgery
Medical College of Virginia
Virginia Commonwealth University

1996-1998 **Fellowship**
Cardiothoracic Surgery
Department of Surgery
Medical College of Virginia
Virginia Commonwealth University

1998 **Fellowship**
General Thoracic Surgery
Lung Transplantation
Department of Thoracic & Cardiovascular Surgery
The Cleveland Clinic Foundation

1998-2003 **Assistant Professor of Surgery & Physiology**
Head, Section of General Thoracic Surgery
Division of Cardiothoracic Surgery
Department of Surgery, Box 980068
Medical College of Virginia Hospitals & Physicians
Virginia Commonwealth University Health System

2003-2019 **Division Chief**
Division of Thoracic Surgery
Head, Thoracic Oncology
Sandra & Malcolm Berman Cancer Institute
GBMC Healthcare

2008-2012 **Medical Director**
Greater Baltimore Medical Associates
President
GBMC Physicians, LLC - specialty
GBMC Healthcare

2012-2021 **Vice-Chair – Information, Innovation & Technology**
Department of Surgery
GBMC Healthcare

2019-2021 **Lead Clinical Informatics Liaison**
GBMC Healthcare

2021 **Chief Medical Information Officer**
GBMC Healthcare

2003-present **President**
HealthTek Consulting, LLC-S Corporation

2015-present **President**
Center for Healthcare Innovation, Inc
www.center4healthcareinnovation.org

2022-present **Head, Clinical Enterprise**
Bayesian Health
www.bayesianhealth.com

2025-present **Organ recovery surgeon – cardiopulmonary**
IT Consultant - FlowHawk
XVIVO Perfusion, Inc
<https://www.xvivogroup.com/>

Post-Doctoral Fellowships

- 1986-1987 *"Excitation-Contraction coupling in single heart muscle cells."*
WJ Lederer MD, PhD*
"Molecular mechanisms of calcium channel modulation by angiotensin II in heart muscle."
WJ Lederer MD, PhD* & TB Rogers PhD#
Departments of *Physiology and #Biochemistry
University of Maryland School of Medicine
- 1988-1989 *"Calcium current in single isolated human cardiac myocytes."*
WJ Lederer MD, PhD*, SR Gundry MD# & BA Reitz MD\$
*Department of Physiology
#Division of Thoracic and Cardiovascular Surgery
University of Maryland School of Medicine
\$Cardiac Surgeon-in-Charge
The Johns Hopkins Hospital
- 1991-1993 *"Modulation of cell volume by stretch-activated channels in single cardiac myocytes."*
CM Baumgarten, PhD
Department of Physiology
Medical College of Virginia
Virginia Commonwealth University
- 1991-1993 *"Electrophysiological consequences of hyperkalemic cardioplegia and ischemia."*
"Novel myocardial protection strategies during surgical ischemia."
RJ Damiano, Jr., MD
Laboratory of Surgical Electrophysiology
Division of Cardiothoracic Surgery
Department of Surgery
Medical College of Virginia
Virginia Commonwealth University

COMPETITIVE RESEARCH SUPPORT

- 1981-1982 * Richter Scholarship Honors Masters (combined BA/MS degree) program
Northwestern University
- 1985-1986 * Medical Student Research Fellowship in Pharmacology
Clinical Pharmacology
Pharmaceutical Manufacturers Association Foundation, Inc.
University of Maryland Medical School
- 1987-1988 * Medical Scientist Program (combined MD/PhD degree)
University of Maryland at Baltimore
- 1988-1990 * Research Fellowship Award
American Heart Association
Maryland Affiliate, Inc.
University of Maryland at Baltimore
- 1991-1993 * Research Fellowship Award - VA-91-F-47
American Heart Association
Virginia Affiliate, Inc.
Medical College of Virginia
- 1991-1993 * National Research Service Award - 1 F32 HL08488
National Institutes of Health
National Heart, Lung, and Blood Institute
Medical College of Virginia
- 1992-1993 * Foote & Levy Award - MCV 6-48330
MCV Foundation
Medical College of Virginia
- 1999-2001 * AIBS DoD/VA Health Research Program -- AIBS NO 990568
US Army Medical Research and Materiel Command
Medical College of Virginia
"Prosthesis for Muscle Reconstruction" – role: investigator
- 2001-2002 * Joel J. Roslyn Faculty Research Award
Association for Academic Surgery / *Journal of Surgical Research*
"Novel Protection Strategies for Lung Transplantation" – role: principal investigator
- 2002-2003 * Massey Cancer Center Pilot Project Grant
"The role of hypoxia-inducible factor (HIF)-1 α in invasion, metastasis and therapeutic resistance of aerodigestive cancers". – role: principal investigator
- 2002-2003 Medical College of Virginia of Virginia Commonwealth University Dean's Discovery Fund
– *Translational Thoracic Surgery Research*
- 2002-2003 Medical College of Virginia Foundation sponsored by Atrium Medical Corporation.
Clinical Guideline for Minimal Invasive Thoracic Surgery.
- 2003-2004 Greater Baltimore Thoracic Surgery Research & Education sponsored by WL Gore & Associates
Outcomes Research in Minimally Invasive Thoracic Surgery
- 2005 Endobronchial Ultrasound – An Interdisciplinary Training Course
Olympus Surgical & Industrial America, Inc unrestricted educational grant
- 2003-2010 Greater Baltimore Thoracic Surgery Research & Education supported by Atrium Medical Corporation
– *Outpatient & Ambulatory Chest Drainage Systems.* role: principal investigator
- 2008-2013 Greater Baltimore Thoracic Surgery Research & Education supported by Atrium Medical Corporation
– *Pleural Pressure Measurement After Pulmonary Resection.* role: principal investigator
- 2016-2019 Center for Healthcare Innovation
– *"Complementary medical therapy (acupuncture) to improve the control of head & neck cancer patient symptoms of disease and treatment side effects"*. role: principal investigator
- 2017 Center for Healthcare Innovation
– *"Panomics Relationships in the Epidemiology of Cancer through in silico Expression (PRECISE).*
role: principal investigator
- 2025 ARPA-H PRECISE-AI Program | Coalition for Health AI**
– "Trust in Effective AI" (CHAI-TEA) program - role: consultant

CONSULTING RELATIONSHIPS / SCIENTIFIC & MEDICAL ADVISORY BOARDS

Managed through HealthTek Consulting, LLC-S Corporation:

- * **XVIVO – FlowHawk – Consultant (2025-present)**
- * **CSA Medical - Characterizing the Mechanism of Action of Metered Cryospray for the Treatment of Patients with Chronic Obstructive Pulmonary Disease with Chronic Bronchitis – Data Safety Monitoring Committee, Medical Advisory Board (2020-present)**
- * **Bearpac Medical – Chief Medical Officer (2018-present)**
- * **Getinge / Atrium Medical Corporation – Consultant, Advisor (1996-present)**
- Bayesian Health – Lead, Clinical Informatics (2022 – 2024)
- Aegis Ventures – Advisor (2024)
- Caire Health - Chief Clinical Informatics Officer (2024)
- Commure – Clinical Informatics Lead (2023 – 2024)
- Rx.Health – Chief Medical Information Officer (2022–2023) (facilitated Rx.Health acquisition by Commure to become CommureEngage SEP2023)
- Sprinter Medical – Consultant, Advisory Board (2021-2023)

COMMUNITY SERVICE

- Member, Board of Directors, Jewish Community Day School of Richmond (1992-1995)
- Steering committee, Richmond Maimonides Society (2002-2003)
- Member, Board of Trustees, American Physician Fellowship for Medicine in Israel (2006-2012)
- Member, Board of Directors, Hillel, Ithaca College (2007-2011)
- Member, Board of Directors, Life & Breath Foundation, Baltimore, MD (2021-2022)
- Member, Board of Directors, Jewish Museum of Maryland, Baltimore, MD (2016-present)**
- Member, Board of Directors, Ulman Foundation, Baltimore, MD (2018-present)**

LICENSURE & CERTIFICATION

- * National Board of Medical Examiners (1990) - certificate number 335244
- * Board of Medicine Commonwealth of Virginia - license number 49230 (1993)
- * Board of Medicine State of Ohio - license number 74937 (1998)
- * Board of Physician Quality Assurance of the State of Maryland – license number D0060406 (2003)
- * United States Drug Enforcement Administration - controlled substance license (1993)
- * Board Certified - General Surgery (1998, 2009, 2020)
- * **Board Certified - Cardiothoracic Surgery (1999, 2008, 2019, 2029)**
- * Epic Certified Physician Builder (2016, 2017, 2018, 2019, 2020, 2021)

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

- * Member American Heart Association (1985)
- * Member Humera Surgical Society (1996)
- * Member Virginia Surgical Society (1999)
- * Member Virginia Thoracic Society (1999)
- * Member International Society of Heart and Lung Transplantation (1999)
- * Member Surgical Biology Club III – American College of Surgeons (1999)
- * **Fellow American College of Chest Physicians (2000)**
- * Member Society of American Gastrointestinal Endoscopic Surgeons (2000)
- * Member Association for Academic Surgery (2000)
- * Member General Thoracic Surgical Club (2001)
- * **Fellow American College of Surgeons (2001)**
- * Member Southern Thoracic Surgical Association (2001)
- * Member Society of Thoracic Surgeons (2002)
- * Member Maryland Chapter – American College of Surgeons (2003)
- * Member Baltimore Academy of Surgery (2004)
- * Member, MedChi, The Maryland State Medical Society (2005)
- * Member Healthcare Information and Management Systems Society (HIMSS) (2008)

PROFESSIONAL COMMITTEES and ADMINISTRATIVE SERVICE

INSTITUTIONAL

- Member Surgical Services Strategic Planning Committee, MCVH/VCU (1999-2001)
- Member Clinical Practice Committee, MCV Physicians (1999-2001)
- Director, Chest Tumor Clinic, Massey Cancer Center (1998-2003)
- Member Surgical Formulary Committee, MCVH&P/VCUHS (1999-2003)
- Member Center for Minimally Invasive Surgery Committee, MCVH&P/VCUHS (1999-2003)
- Member Budget & Finance Committee, Department of Surgery, MCVH&P/VCUHS (2001-2003)
- Member Clinical Oncology Services Executive Committee, Massey Cancer Center (2001-2003)
- Member Operating Room Access Committee, MCVH&P/VCUHS (2002-2003)
- Member, Department of Surgery Chairman Search Committee, MCVH&P/VCUHS (2002-2003)
- Member, PACS Implementation Committee, GBMC Healthcare (2003-2007)
- Member-at-Large, GBMC Medical Board, GBMC Healthcare (2005-2007)
- Member, Compensation Committee, Greater Baltimore Medical Associates (2008-2009)
- Member, Clinical Documentation Improvement Steering Committee, GBMC Healthcare (2004-2009)
- Member, Department of Surgery Quality Assurance Committee, GBMC Healthcare (2003-2021)
- Member, Department of Surgery Surgical Advisory Committee, GBMC Healthcare (2004-2021)
- Member, GBMC Medical Board Cancer Committee, GBMC Healthcare (2004-2021)
- Member, Oncology Leadership Executive Council, GBMC Healthcare (2008-2012)
- Medical Director, Greater Baltimore Medical Associates (2008-2012).
- President, GBMC Physicians, LLC (2008-2012)
- Chairman, Strategic Value Analysis Committee, GBMC Healthcare (2014-2016)
- Member, Epic Advisory Council, GBMC Healthcare (2018-2021)

REGIONAL

- Member Patient Relations Committee, Richmond Academy of Medicine (2001-2003)
- Member, Medical Advisory Committee, LifeNet Organ Procurement Organization (1999-2002)
- Leadership Division Tri-Chair, UNOS campaign, United Network for Organ Sharing (2001-2003)
- Chairman, Medical Advisory Committee, LifeNet Organ Procurement Organization (2002-2003)
- Delegate, Maryland Medical Board (2005-2022)
- Member, Board of Governors, Baltimore County Medical Association (2007-2022)
- Treasurer, Baltimore County Medical Association (2009-2010)
- Secretary, Baltimore County Medical Association (2010-2011)
- Vice President, Baltimore County Medical Association (2011-2012)
- President-elect, Baltimore County Medical Association (2013-2014)
- President, Baltimore County Medical Association (2014-2015)
- Chairman, Board of Governors, Baltimore County Medical Association (2015-2016)

NATIONAL

- Member Steering Committee, Interventional/Diagnostic Procedures NetWork, ACCP (2000-2002)
- Vice Chair Steering Committee, Interventional/Diagnostic Procedures NetWork, ACCP (2002-2004)
- Chairman, Interventional/Diagnostic Procedures NetWork, ACCP (2004-2006)
- Member, Steering Committee, Transplant & Immunology NetWork, ACCP (2000-2004)
- Member, Program Committee, Association for Academic Surgery (2003-2004).
- Member, Issues Committee, Association for Academic Surgery (2004-2007).
- Member, STS RUC Five-Year Review Expert Panel (2005-2015).
- Member, Maryland Committee on Fellowship Applicants, American College of Surgeons (2005-2018).
- Member, Marketing Committee, ACCP (2007-2011)
- Member, Practice Management Council, ACCP (2008-2012).
- Vice Chair, EHR/IT Subcommittee Practice Management Council, ACCP (2011-2012).
- Member, Program Committee, International Society Minimally Invasive Cardiothoracic Surgery (2011-2020).
- Chief Medical Information & Innovation Officer, GroupMD (2011-2013)
- Chair, Integrated Care Advisory Board, Sanofi Global Center of Excellence (2014-2015)
- **Organizer & Reviewer, HIMSS Global Health Conference Program (2021-present)**
- **Founding Member, AMXRA - The American Medical Extended Reality Association (2023-present)**

LICENSES & PATENTS

"Method for electively achieving reversible hyperpolarized cardiac arrest"

United States Official Letters Patent 5,428,039 (6/27/95)

CLINICAL RESEARCH ACTIVITIES

1. "Randomized trial of mediastinal lymph node sampling *versus* complete lymphadenectomy during pulmonary resection in the patient with N0 or N1 (less than hilar) non-small cell carcinoma." (Principal Investigator, Medical College of Virginia of Virginia Commonwealth University (2001-2003). American College of Surgeons Oncology Group #Z0030 (Principal Investigator, Greater Baltimore Medical Center 2003-2004).
2. "The utility of positron emission tomography (PET) in staging of patients with potentially operable non-small cell lung carcinoma." (Principal Investigator, Medical College of Virginia of Virginia Commonwealth University (2001-2003). American College of Surgeons Oncology Group #Z0050.
3. "The utility of positron emission tomography (PET) in staging of patients with potentially operable carcinoma of the thoracic esophagus." (Principal Investigator, Medical College of Virginia of Virginia Commonwealth University (2001-2003). American College of Surgeons Oncology Group #Z0060 (Principal Investigator, Greater Baltimore Medical Center 2003-2004).
4. "Use of proteomic analysis of serum samples for detection of non-small cell lung cancer." American College of Surgeons Oncology Group #Z4031 (Principal Investigator, Greater Baltimore Medical Center 2003-2006).
5. "Express™ Mini Chest Drainage Device Shortens Time to Patient Ambulation and Reduces Hospital Length of Stay." Atrium Medical Corporation *Mercury* Trial (Principal Investigator, Greater Baltimore Medical Center 2005-2007).
6. "Pleural pressure changes and resolution of air leaks after pulmonary surgery". Atrium Medical Corporation (Principal Investigator, Greater Baltimore Medical Center 2008-2012).
7. "Clinical Utility of Digital Measurement and Reporting of Air Leaks and Fluid Clearance (eDrain) from the Pleural Space after Pulmonary Surgery". Atrium Medical Corporation Maquet Gettinge Group (Principal Investigator, Greater Baltimore Medical Center 2012-2013).
8. "Lung Volume Reduction Coil Treatment in Patients with Emphysema (RENEW) Study. Randomized comparison of the PneumRx RePneu Lung Volume Reduction Coil to Standard of Care". Thoracic Surgery representative to the Data Monitoring Committee. (2012-2020).
9. "Voice Quality and Laryngeal Appearance in Patients with Lung Cancer". Co-Investigator, Johns Hopkins Clinical Research Network. 2014-2016)
10. "Complementary medical therapy (acupuncture) to improve the control of head & neck cancer patient symptoms of disease and treatment side effects". (Principal Investigator. Center for Healthcare Innovation. 2016-2019).
11. "Panomics Relationships in the Epidemiology of Cancer through *in Silico* Expression (PRECISE) (Principal Investigator. Center for Healthcare Innovation. 2017).
12. "A Randomized Controlled Study of the PneumRx Endobronchial Coil System Versus Standard-of Care Medical Management in the Treatment of Subjects with Severe Emphysema (ELEVATE). Thoracic Surgery representative to the Data Monitoring Committee. (2018-2020).
13. **"Characterizing the Mechanism of Action of Metered Cryospray for the Treatment of Patients with Chronic Obstructive Pulmonary Disease with Chronic Bronchitis – Data Safety Monitoring Committee, CSA Medical Advisory Board (2020-present).**
14. **"Trust in Effective AI" (CHAI-TEA) program – consultant, ARPA-H PRECISE-AI Program | CHAI-TEA program (2025-2028)**

EDUCATIONAL ACTIVITIES

INVITED JOURNAL REVIEWER

- * Journal of Thoracic and Cardiovascular Surgery
- * Annals of Thoracic Surgery
- * Journal of Heart & Lung Transplantation
- * Surgical Endoscopy
- * American Journal of Physiology: Heart and Circulatory Physiology
- * Journal of Cardiovascular Electrophysiology
- * Circulation Research
- * Journal of Surgical Oncology
- * Journal of Surgical Research
- * Innovations
- * CHEST
- * Journal of Bronchology

Supervision of post-doctoral trainees (clinical)

- Associate program director and supervisor of thoracic surgical residency training within the Medical College of Virginia of Virginia Commonwealth University, Division of Cardiothoracic Surgery. This training directed primarily to the residents in Cardiothoracic Surgery and the senior level General Surgery residents (1998-2003).
- Program director and supervisor of thoracic surgical residency training within the Medical College of Virginia of Virginia Commonwealth University, Division of Cardiothoracic Surgery. (2003)

Supervision of post-doctoral trainees (research)

- Alexandru M. Vaida (2000)
- Dan Tang (2001-2003)
- Dana Holwitt (2002-2003)

PUBLICATIONS

ARTICLES

- (1) **Cohen, NM**, Schmidt, DM, McGlennen, RC, & Klein, WL (1983). Receptor-mediated increases in phosphatidylinositol turnover in neuron-like cell lines. Journal of Neurochemistry **40**:547-554.
- (2) Large, TH, Lambert, MP, **Cohen, NM** & Klein, WL (1986). Autonomous control of phosphatidylinositol turnover by histamine and acetylcholine receptors in the N1E-115 neuron-like cell line. Neuroscience Letters **66**:31-38.
- (3) **Cohen, NM** & Lederer, WJ (1987). Calcium current in isolated neonatal rat ventricular myocytes. Journal of Physiology **391**:169-191.
- (4) **Cohen, NM** & Lederer, WJ (1988). Changes in the calcium current of rat heart ventricular myocytes during development. Journal of Physiology **406**:115-146.
- (5) Dosemeci, A, Dhallan, RS, **Cohen, NM**, Lederer, WJ & Rogers, TB (1988). Phorbol ester increases calcium current and simulates the effects of angiotensin II on cultures neonatal rat heart myocytes. Circulation Research **62**:347-357.
- (6) Allen, IS, **Cohen, NM**, Dhallan, RS, Gaa, ST, Lederer, WJ & Rogers, TB (1988). Angiotensin II increases spontaneous contractile frequency and stimulates calcium current in cultured neonatal rat heart myocytes: insights into the underlying biochemical mechanisms. Circulation Research **62**:524-534.
- (7) Lederer, WJ, Cannell, MB, **Cohen, NM** & Berlin, JR, (1989). Excitation-contraction coupling in heart muscle. Molecular and Cellular Biochemistry **89**:115-119.
- (8) **Cohen, NM**, Lederer, WJ & Nichols, CG (1992). Activation of ATP-sensitive potassium channels underlies contractile failure in single human cardiac myocytes during complete metabolic inhibition. Journal of Cardiovascular Electrophysiology **3**:101-108.
- (9) **Cohen, NM**, Nixon, TE & Damiano, RJ (1992). Electrophysiological consequences of myocardial protection during surgical ischemia. Surgical Forum XLIII: 260-263.
- (10) **Cohen, NM**, Allen, CA, Belz, MK, Nixon, TE, Wise, RM & Damiano, RJ (1993). Electrophysiological consequences of hypothermic hyperkalemic elective cardiac arrest. Journal of Cardiac Surgery **8**:156-160.
- (11) **Cohen, NM**, Wise, RM, Wechsler, AS & Damiano, RJ (1993). Elective cardiac arrest with a hyperpolarizing ATP-sensitive potassium channel opener - A novel form of myocardial protection? Journal of Thoracic and Cardiovascular Surgery **106**:317-328.
- (12) **Cohen, NM** & Lederer, WJ, (1993). Calcium current in single human cardiac myocytes. Journal of Cardiovascular Electrophysiology **4**:422-437.
- (13) Belz, MK, Wise, RM, Hsia, PWE, **Cohen, NM**, Allen, CA & Damiano, RJ (1993). The effect of left ventricular intracavitary volume on the unipolar electrogram. Pacing and Clinical Electrophysiology **16**(9):1842-1852.
- (14) **Cohen, NM**, Allen, CA, Hsia, P-W, Nixon, TE, Wise, RM & Damiano, RJ (1994). The electrophysiological consequences of hyperkalemic cardioplegia during surgical ischemia. The Annals of Thoracic Surgery **57**:1076-1083.

- (15) Damiano, RJ & **Cohen, NM** (1994). Hyperpolarized arrest attenuates myocardial stunning following global surgical ischemia: an alternative to traditional hyperkalemic cardioplegia? Journal of Cardiac Surgery **9**(Suppl):517-525.
- (16) Suleymanian, MA, Clemon, HF, **Cohen, NM** & Baumgarten, CM (1995). Stretch-activated channel clockers modulate cell volume in cardiac ventricular myocytes. Journal of Molecular & Cellular Cardiology **27**:721-728.
- (17) **Cohen, NM**, Damiano, RJ & Wechsler, AS (1995). Is there an alternative to potassium arrest? The Annals of Thoracic Surgery **60**:858-863.
- (18) Maskal, SL, **Cohen, NM**, Hsia, P-W, Wechsler, AS & Damiano, RJ (1995). Hyperpolarized cardiac arrest with a potassium channel opener, Aprikalim. The Journal of Thoracic and Cardiovascular Surgery **110**:1083-1095.
- (19) Maskal, SL, Fields, CE, **Cohen, NM** & Damiano, RJ (1995). Persistent electrical activity during hyperpolarized cardiac arrest does not affect postischemic myocardial recovery. Surgical Forum XLVI:222-224.
- (20) Hsia, PWE, Frerk, S, Allen, CA, Wise, RM, **Cohen, NM** & Damiano, RJ (1996). A critical period of ventricular fibrillation more susceptible to defibrillation: real-time waveform analysis using a single ECG lead. Pacing and Clinical Electrophysiology **19**:418-430.
- (21) Posner, MP, Makhoul, RG, Altman, M, Kimball, P, **Cohen, NM**, Sobel, M, Dattilo, J & Lee, HM (1996). Early results of infra-geniculate arterial reconstruction using cryopreserved homograft saphenous conduit (CADVEIN) and combination low dose systemic immunosuppression. The Journal of the American College of Surgeons **183**:208-216.
- (22) Danetz, JS, Jayawant AM, Dattilo, JB, DeMaria, EJ & **Cohen, NM** (2000). Intrathoracic herniation and perforation 18 years following open Nissen fundoplication. Journal of Laparoendoscopic & Advanced Surgical Techniques **10**:277-281.
- (23) Houck, WV, Broderick, TJ, Cohen, SA & **Cohen, NM** (2002). Benign metastasizing leiomyoma. Surgical Endoscopy **16**(4):716.
- (24) Vaida, AM, Tang, DG, Allen, C, Wise, RM, Higgins, RSD & **Cohen, NM** (2003). Novel protection strategy for pulmonary transplantation Journal of Surgical Research **109**(1):8-15.
- (25) Johnstone, D & Ernst, A *et al* for the ACCP Interventional Chest/Diagnostic Procedures NetWork (2003). Interventional Procedural Standards Guidelines Position Statement. CHEST **123**(5):1693-1717.
- (26) Tang, DG, Pavot, D, Mouria, M, Holwitt, D, Vaida, AM, Higgins, RSD & **Cohen, NM** (2003). Warm ischemia lung protection with Pinacidil – an ATP-regulated potassium channel opener. The Annals of Thoracic Surgery **76**(2):385-390.
- (27) Kepley, CL & **Cohen, NM**. Evidence for human mast cell non-releaser phenotype (2003). The Journal of Allergy and Clinical Immunology **112**(2):457-459.

- (28) **Cohen, NM** (2003). Focus on lung cancer. Greater Oncology Today **Fall 2003**:20-23.
- (29) Andrs, K, Brooks, JW, Savage, LS & **Cohen NM** (2004). Performance improvement with a multidisciplinary clinical guideline for patients undergoing minimally invasive thoracic surgery. Joint Commission Journal on Quality and Safety **30(2)**:89-94.
- (30) Oskeritzian, CA, Zhao, W, Pozez, A, **Cohen, NM**, Grimes, M & Schwartz, LB (2004). Neutralizing endogenous IL-6 renders mast cell of the MC_T type from lung, but not the MC_{TC} from skin and lung, susceptible to human rIL-4-induced apoptosis. The Journal of Immunology **172(1)**:593-600.
- (31) Higgins, RSD, Bridges, J, O'Donnell, MA, **Cohen, NM**, Wilkes, SB (2004). Implementing the ACGME general competencies in a cardiothoracic surgery residency program using 360-degree feedback. The Annals of Thoracic Surgery **77(1)**:12-17.
- (32) Levine SM *et al* on behalf of the Transplant/Immunology Network of the American College of Chest Physicians (2004). A survey of clinical practice of lung transplantation in North America. CHEST **125**:1224-1238.
- (33) **Cohen, NM** (2004). Lung cancer screening. Greater Oncology Today **Spring 2004**:4-6.
- (34) Tang, DG, Vaida, AM, Wise, RM, Higgins, RSD & **Cohen, NM** (2004). Plasmolemmal potassium gradient does not affect lung protection by ATP regulated potassium channel openers (PCOs). Journal of the American College of Surgeons **198**:960-965.
- (35) Pastis, NJ, Nietert, PJ, Silvestri, GA for the American College of Chest Physicians Interventional Chest/Diagnostic Procedures Network Steering Committee (2005). Variation in Training for Interventional Pulmonary Procedures Among US Pulmonary/Critical Care Fellowships: A Survey of Fellowship Directors Chest **127**:1614-1621.
- (36) Pastis, NJ, Nietert, PJ, Silvestri, GA for the American College of Chest Physicians Interventional Chest/Diagnostic Procedures Network Steering Committee (2005). Fellows' Perspective of Their Training in Interventional Pulmonary Procedures. Journal of Bronchology **12**:88-95.
- (37) Mehta, AC, Prakash, UBS, Garland, R, Haponik, E, Moses, L, Schaffner, W, Silvestri, GA for the American College of Chest Physicians Interventional Chest/Diagnostic Procedures Network Steering Committee (2005). Consensus Statement: Prevention of Flexible Bronchoscopy-Associated Infection. CHEST **128**:1742-1755.
- (38) Telemeco T, Ayres, C, Bowlin, GL, Wnek, GE, Boand, ED, **Cohen, NM**, Baumgarten, CM, Mathews, J, & Simpson, DG (2005). Regulation of cellular infiltration into tissue engineering scaffolds composed of submicron diameter fibrils produced by electrospinning. Acta Biomaterialia **1(4)**:377-385.
- (39) **Cohen, NM** (2006). Cybermedicine: Electronic medical records make healthcare geography neutral. The Medical Bulletin **4 (7)**:3.

- (40) **Cohen, NM**, Bhalotra, S & Chilingerian, J (2007): Implementing an advanced surgery program at a tertiary care regional medical center: Leading change and the liabilities of newness. INSEAD The Business School for the World.
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BOOK CHAPTERS

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ABSTRACTS and INVITED PRESENTATIONS

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- (51) **Cohen, NM** (2003). Lung volume reduction surgery in the treatment of advanced emphysema. Housestaff Journal Club. Department of Medicine, Greater Baltimore Medical Center, Baltimore, MD.
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- (57) **Cohen, NM** (2003). Staging and multimodality treatment of lung cancer. Surgical Tumor Board. Greater Baltimore Medical Center, Baltimore, MD.
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- (59) **Cohen, NM** (2004). Surgical advances in the treatment of lung cancer. Junior Gunpowder Agricultural Club. Phoenix, MD.
- (60) **Cohen, NM** (2004). Minimally invasive thoracic surgery techniques in the multimodality treatment of lung cancer. GBMC Foundation Board, Greater Baltimore Medical Center, Baltimore, MD.
- (61) **Cohen, NM** (2004). Diagnosis, staging and treatment of esophageal cancer. Surgical Tumor Board, Greater Baltimore Medical Center, Baltimore, MD.
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- (80) **Cohen, NM** (2006). Technology in Thoracic Surgery. Perspectives in Medicine lecture. GBMC Foundation. Baltimore, MD
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- (82) **Cohen, NM** (2007). Cost-effectiveness analysis: the case for VATS management of pleural effusion. Greater Baltimore Medical Center. Baltimore, MD.
- (83) **Cohen, NM** (2007). Post-thoracotomy patient management. MICU Nursing education symposium. Greater Baltimore Medical Center. Baltimore, MD.
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- (91) **Cohen, NM**. (2008) Prevention, screening & early detection of lung cancer. Sandra & Malcolm Berman Cancer Institute. Greater Baltimore Medical Center, Baltimore, MD
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- (93) **Cohen, NM**. (2009). New Models of Healthcare Delivery – are we ready for a fully integrated healthcare delivery system (IDS)? Annual Meeting of the Virginia Surgical Society. Virginia Beach, VA.
- (94) **Cohen, NM**. (2009). Healthcare Reform: are we ready for an integrated delivery system? Grand Rounds. Children’s Hospital of the King’s Daughters / Eastern Virginia Medical School, Norfolk, VA
- (95) **Cohen, NM**, Watson A (2009). Connected Medicine. Verizon Wireless Lifesciences & Healthcare Summit. Atlantic City, NJ
- (96) **Cohen, NM** (2010). Integrated fast track protocol using conventional technology results in more rapid recovery after pulmonary resection. 18th European Conference on General Thoracic Surgery, Valladolid, Spain.
- (97) **Cohen, NM** (2010). Conventional ambulatory technology can result in improved outcomes after pulmonary resections when incorporated into a standard clinical pathway. Techno meeting. European Society of Thoracic Surgeons. Valladolid, Spain.
- (98) **Cohen, NM** (2010). Accountable Care Organizations – Preparing and Positioning the Provider Infrastructure. Integrated Delivery Systems Roundtable. Medical Group Management Association. Minneapolis, MN.

- (99) **Cohen, NM** (2010). Health Information Exchange (HIE) and Electronic Medical Records (EMR) Systems. Thought Leadership Discussion. Verizon Wireless Lifesciences & Healthcare Summit. Atlantic City, NJ
- (100) **Cohen, NM**, White, J, O’Conner, K, Sinno, M, Whiteside, L & Zinno, P (2010). Response to Regulations Impacting Healthcare. Verizon Wireless Lifesciences & Healthcare Summit. Atlantic City, NJ
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- (104) **Cohen NM** & Graves, A (2011) Meaningful Use: What you need to know. CHEST 2011 American College of Chest Physicians. Honolulu, HI
- (105) **Cohen, NM**, Lane, A, Ross, M, Forbes, L, Collins, J (2011). mHealth – Virtual Care, Remote Disease Management. Verizon Alcatel-Lucent Healthcare & Wireless Life Sciences Summit. Atlantic City, NJ
- (106) **Cohen, NM**, Meshkin, A, Platt, J, Rosenburgh, R (2012). GroupMD – A Patient Care Social Network for Healthcare Providers. TechBUZZ Capital Connection’12. Washington, DC
- (107) Neptune, J-L, Young, S, Smith, R, **Cohen, NM**, Antwerpes, F & Pitt, A (2012). Care Collaboration and Coordination – “Working Together to Provide Better Care”. Doctors 2.0. Health 2.0 (2012). San Francisco, CA
- (108) **Cohen, NM**, Meshkin, A, Alcorn, R (2012). “Secure Collaborative Communication Platforms”. World Healthcare Innovation & Technology Congress. Arlington, VA
- (109) Meshkin, A, **Cohen, NM** (2013). “Secure Messaging to Coordinate Complex Patient Care”. Health IT Venture Fair & Strategic Partner Forum. HIMSS13. New Orleans, LA
- (110) **Cohen NM** (2013). Healthcare Transformation Project. HIMSS13. New Orleans, LA
- (111) **Cohen NM** (2013). Minimally invasive thoracic surgery – technology and innovation. Current state and future vision. Ethicon / Johnson & Johnson. Baltimore, MD
- (112) **Cohen, NM** (2013). Demonstration of the role of digital technology in advancing patient safety and outcomes based clinical protocols with the eDrain platform. Atrium Maquet National meeting. Scottsdale, AZ.
- (113) **Cohen NM** (2013). Healthcare Transformation Project. HIMSS14. Orlando, FL
- (114) **Cohen NM** (2014). mHealth tools facilitate collaborative communication and coordination of patient care. 50th annual meeting of the Humera Surgical Society, White Sulphur Springs, WV

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- (116) **Cohen, NM** & Miller, D (2015). Advanced Thoracic Surgery Roundtable. Ethicon, Inc. Chicago, IL
- (117) Harlow, D, Rowley, R, **Cohen, NM** & Meshkin, A (2015). Flow Health – patient centered health information exchange. Ignite! Talk at Medicine X 2015. Stanford Medical School, Palo Alto, CA
- (118) **Cohen, NM** (2020). Department of Medicine Grand Rounds. “Future Tech in Healthcare”. GBMC Healthcare, Baltimore, MD.
- (119) **Cohen, NM** & Hartman, CM (2020). “All Together Now” Multi-Disciplinary Tumor Boards in Electronic Medical Records. Epic User Group Meeting.
- (120) **Cohen NM** & E Marx (2020). “Clinical Analytics, Revenue Cycle & Value Based Care”. Virtual HCIT & Services Conference - Verity Research Healthcare Technology Solutions/Platforms.
- (121) **Cohen, NM** & Day, J (2020). “CDI Engage One CDI Tool - Using Augmented Intelligence (AI) and Natural Language Processing (NLP) to improve clinical documentation and coding accuracy in real-time”. 3M & M*Modal Webinar.
- (122) **Cohen, NM** (2021). “Documenting the Patient’s Story Using Augmented Intelligence (AI) and Natural Language Processing (NLP)”. 3M & M*Modal Webinar series.
- (123) **Cohen, NM** (2021). “Documenting the Patient’s Story: AI-driven Clinical Insights. HIMSS21 Las Vegas, NV
- (124) Custódio, D, Press, D, Ohnmacht, SD, **Cohen, NM** (2021). “Comprehensive Quality Management Systems - Ensuring High Quality of Care”. National Capital Healthcare Executives, American College of Healthcare Executives
- (125) **Cohen NM**, Strobridge, R, Lambiotte, W, Narang, G (2022). “Improving Patient Outcomes by Automating Digital Health.” HIMSS22 Global Health Conference & Exhibition. Orlando, FL
- (126) **Cohen, NM** (2022). “Current and Emerging Digital Health Technologies”. Brooks-Lower Visiting Professor Lecture. Virginia Commonwealth University Health System, Department of Surgery, Division of Cardiothoracic Surgery. Richmond, VA.
- (127) **Cohen, NM** (2022). “Digital Healthcare – Emerging and Developing Technology and Tools.” Grand Rounds, Milton J Dance Head & Neck Center. GBMC Healthcare, Department of Otolaryngology Head and Neck Surgery. Baltimore, MD.
- (128) **Cohen, NM**, Kranz, P, Widmeier, K & Heizenrader, C (2022). “How Virtual Reality is Changing the Patient Experience Both in the Hospital and at Home”. thINc360 – The Healthcare Innovation Congress. Baltimore, MD
- (129) **Cohen, NM**, Leadley, K, & Doshi, J (2022). “Remote Cardiac Monitoring: Emerging Technologies and the Future of Patient-Centered Care.” Rx.Health Educational Webinar. 6JUN2022

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- (132) Chiamonte D, Fontanesi S, Forsythe-Chisolm L, Zvarick B, Flanagan P & **Cohen NM** (2023). "Fusion of Integrative and Palliative Medicine: Feasibility of a Unique Hospital-Based Integrative Palliative Medicine Program". *Academic Consortium for Integrative Medicine and Health Symposium*. Chicago, IL
- (133) **Cohen, NM** (2023). "Digital Transformation with Digital Navigation Programs." *CIO Bootcamp Focus Group*. CHIME Spring Meeting. Nashville, TN
- (134) **Cohen NM & Nicandri, G** (2023) "Aligning Clinical Workflow and AI/ML Technology to Protect Patients and Leverage Data to Drive More Effective Care". *ViVE AI Showcase: Going the Distance*. Nashville, TN
- (135) **Cohen NM** (2023) "Digital Automation Platforms in Medicine". *Future Medicine:AI Hub* 22JUN2023. <https://www.fmai-hub.com/digital-automation-platforms-in-medicine/>
- (136) Saria, S & **Cohen, NM** (2023). "Using AI/ML platforms as clinical consultants to intelligently augment care, protect patients, and improve frontline clinicians' experience". *32nd Summer Institute of Nursing Informatics (SINI)* 21JUL2023. University of Maryland School of Nursing, University of Maryland Medical System, Baltimore, MD.
- (137) **Cohen, NM** (2023). "Innovation of Healthcare Delivery Now and in the Future." *Southern Thoracic Surgical Association 70th Annual Meeting*. Orlando, FL
- (138) **Cohen, NM**, Thomas, P, Sethi, S, Falola, T & Hertelendy, A (2024). "Scaling AI Deployment in Healthcare: Strategies for Effective Expansion and Sustained Success". *AI in Healthcare Forum*. HIMSS2024 Orlando, FL.
- (139) **Cohen, NM** (2024). "Enhancing Patient Care: Exploring the Impact of Clinical Care Coordination Technology in FQHCs". *Commure Blog* <https://www.commure.com/blog/>
- (140) **Cohen, NM**, Porter, W & Saria, S (2024). "AI/ML Clinical Co-Pilots". *Kaiser Permanente Artificial Intelligence in Medicine (AIM) Symposium* 08MAY2024.
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