

CURRICULUM VITAE

DAVID JAY BERMAN, MD

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Appointments / Employment:

- 7/2013 – 6/2017 **Resident**, Department of Anesthesiology, Perioperative and Pain Medicine
Eliasberg Research Scholar Track, Clinical Educator Track
The Mount Sinai Hospital, Icahn School of Medicine at Mount Sinai
New York, New York
Program Director: Adam Levine, MD
- 7/2017 - 6/2018 **Clinical Fellow**, Obstetric Anesthesiology
The Johns Hopkins Hospital, Department of Anesthesiology and Critical Care Medicine
Baltimore, Maryland
Program Director: Gillian Isaac, MD PhD
- 7/2018 - Present **Assistant Professor**, Division of Obstetric, Gynecologic and Fetal Anesthesia
The Johns Hopkins Hospital, Department of Anesthesiology and Critical Care Medicine
Baltimore, Maryland
Division Director: Jamie Murphy, MD

Gaps in Employment

None

Education

- 9/2005 – 12/2008 Bachelor of Arts (BA)
Economics (Cum Laude), Minors in Chemistry and Jazz Performance
New York University, New York NY
Faculty Advisor: Marc Lieberman, PhD
- 8/2009 – 5/2013 Doctor of Medicine (MD)
Distinction in Medical Education
Icahn School of Medicine at Mount Sinai
New York, NY
Primary Mentor: David Muller, MD, Dean for Medical Education
- 6/2018 - Present Candidate for Master of Education in the Health Professions (MEHP)
Johns Hopkins University School of Education
Baltimore, MD

Faculty Advisor: Toni Ungaretti, PhD

Certification

8/2009 Paramedic, State of New York (*currently inactive*)
5/2012 Instructor, BLS – American Heart Association
7/2015 BLS/ACLS (Expires 5/2020)
3/2018 NRP (Neonatal Resuscitation Program)
4/2018 Diplomate, American Board of Anesthesiology (certificate #58498,
Certified through 12/31/2028)
Application Pending National Board of Echocardiography, Certification in Basic Perioperative
Transesophageal Echocardiography

Licensure

7/2014 New York State License; Inactive as of 9/30/2017
10/2016 Maryland State License; Registered through 9/2020
10/2016 DEA Certification; Registered through 7/2019
2/2017 Maryland Controlled Substances Dispensing Permit; Registered
through 2/2020

Exam Scores

USMLE

USMLE Step 1 (6/11) – 246 (99)
USMLE Step 2CK (8/12) – 257 (86)
USMLE Step 2 CS (9/12) – Pass
USMLE Step 3 (12/13) – 235

Anesthesiology Exams

Anesthesia Knowledge Test (AKT) 0 (7/14) – 92nd percentile
Anesthesia Knowledge Test (AKT) 30 (8/14)– 82nd percentile
Anesthesia Knowledge Test (AKT) 6 (1/15)– 90th percentile
PGY-1 Anesthesiology In-Training Exam – 87th percentile
PGY-2 Anesthesiology In-Training Exam – 89th percentile
PGY-3 Anesthesiology In-Training Exam – 84th percentile
PGY-4 Anesthesiology In-Training Exam – 57th percentile

American Board of Anesthesiology

American Board of Anesthesiology (ABA) Basic Exam (6/15) - Pass
American Board of Anesthesiology (ABA) Advanced Exam (7/17) - Pass
American Board of Anesthesiology (ABA) Applied Examination (4/18) - Pass

National Board of Echocardiography

National Board of Echocardiography, Basic Perioperative Transesophageal Echocardiography
Exam (7/18) - Pass

Honors / Awards

2005 - 2009 New York University: Presidential Honors Scholar, Dean's List,
President's Award for Academic Achievement, NYU Hillel Exemplar of
Excellence

12/2011	Icahn School of Medicine Student Council Award, Outstanding Service to Fellow Students
5/2012	Icahn School of Medicine Student Council Award, Outstanding Service to Fellow Students
5/2013	Outstanding Service to Fellow Students Award Department of Medical Education, Year-End Award
5/2013	Winner, First Inaugural Dave Berman Award for Outstanding Service to Fellow Students
5/2013	MD Awarded with Distinction in Medical Education
5/2013	Joseph R. Jagust Award for Highest Performing Student in Anesthesiology, Icahn School of Medicine
5/2014	Gold Humanism Honor Society, Resident Award for Humanism and Excellence in Teaching
9/2015	Best Presentation, New York Academy of Medicine Anesthesiology Resident Research Night
6/2017	House Staff Excellence in Teaching Award - Best Resident Teacher, Institute for Medical Education The Mount Sinai Health System
6/2018	Service Star for Excellence in Patient Care and Teamwork The Johns Hopkins Hospital

Other Professional Roles

Department of Anesthesiology and Critical Care Medicine, The Johns Hopkins Hospital:

8/2017 - present	Coordinator, Resident Education, Obstetric Anesthesia Division Coordinate the educational activities for our residents rotating in their OB anesthesia rotation, providing lectures and assuring adequate clinical exposure throughout their time on the labor floor
4/2019 - present	Assistant Program Director, Anesthesiology Residency Program

Department of Anesthesiology, Mount Sinai Hospital:

7/2014 – 6/2017	Eliasberg Clinical Research Scholar Residency research track involving mentored research and protected time; main project involved development of iBooks for anesthesiology educational curricula
7/2014 – 6/2017	Instructor, Clinical Educator Track Lecture and conduct simulator sessions for third and fourth-year medical students during clerkship and away rotations
7/2015 – 6/2017	Mentor for incoming anesthesiology interns

Serve as a resident mentor for interns rotating on their anesthesiology month

The Mount Sinai Hospital:

- 8/2016 – 6/2017 Member, Utilization Review Committee
Served on the committee for analyzing utilization of beds, resources and operating room management at the Mount Sinai Hospital
- 6/2016 – 6/2017 Member, Root Cause Analysis Team
Responsible for analyzing and performing root cause analysis for adverse clinical events at Mount Sinai

Icahn School of Medicine at Mount Sinai:

- 8/2012 – 6/2017 Member, Committee on Admissions
Responsible for screening and interviewing potential candidates for admission to the medical school
- 5/2015 – 6/2017 Member, Student Promotions Committee
Review medical students failing to meet set standards of academic performance and/or professional behavior, make decisions regarding promotion and graduation of medical students
- 9/2012 – 1/2013 Medical Student Representative, FlexMed Design Committee
Worked as the medical student on the committee designing Mount Sinai's FlexMed program, an innovative program in undergraduate medical education
- 9/2010 – 10/2011 Student Head, Committee on Technology for LCME Reaccreditation Visit
Served as one of two lead writers for the LCME reaccreditation survey report regarding the use of technology in the medical school
- 3/2012 – 6/2013 Board of Trustees Student Representative
Served as the medical student representative to the board of trustees of the school

National Organizations:

- 6/2016 - 9/2016 Reviewer, ABA Pulse Program (MOCA Minute)
Serve as resident reviewer for daily questions sent out by the American Board of Anesthesiology for maintenance of board certification
- 2/2017 - 6/2017 Reviewer, ABA Simulation Program (ASA Sim-Stat)
Asked to serve as reviewer for a new CAE-ABA combined initiative to develop high-fidelity simulation experience for anesthesiology continuing education
- 5/2018 - Present Member. SOAP Education Committee
Serve as member of the education committee for the Society for OB Anesthesia and Perinatology, the worldwide society for obstetric anesthesiology

Consulting Agreements

Consultant, Cardiogram Inc. - Palo Alto, CA

Member, Board of Medical Advisors, Biodigital Inc. - New York, NY

Research Profile

My research centers mainly on the use of technology for education of the adult learner in the medical context.

As a medical student, I initiated the system for recording medical school lectures and placing the videos online for review and further study; systems of this sort have since spread widely, and the majority of medical schools use this technology. Mount Sinai was among the first in the country to adopt this system.

Beginning as a medical student and continuing through residency, I developed digital textbooks for a variety of curricula. I initially developed a digital guide to the physical exam that has since been distributed on MedEd Portal, a common curriculum system used for sharing resources between member schools of medicine. To date, over 20 medical schools use this iBook as their standard text for teaching physical exam maneuvers. I subsequently developed a hematology text for the basic science hematology course, which has experienced a similar level of dissemination to its predecessor.

As a resident, I developed Mount Sinai's Guide to Anesthesiology, a custom-designed iBook for our residency program designed to serve as a guide to the first several months of residency. The iBook has since been distributed and is in use at over 30 programs across the country, with over 450 daily active users in the 2016-2017 academic year.

As a fellow and junior attending, I am embarking on a journey to create a standardized, smart educational resource for the obstetric anesthesiology subspecialty. I hope to develop and disseminate this resource similarly to the dissemination of my prior work, with the aim of creating a versatile curriculum to be endorsed by SOAP. As such, I have been invited to serve on the SOAP education committee and will be furthering my efforts as part of this group.

Educational Impact

In addition to my primary goal of becoming a clinically skilled board-certified, fellowship-trained anesthesiologist, I aim to dedicate my career to medical student and resident education.

As a medical student, I served as a senior tutor to younger medical students to assist them in preclinical classes and with board exam preparation. Additionally, I served as an instructor in a number of programs focused on community education in East Harlem, from running a day camp for middle schoolers to teaching nutrition to kindergarteners and their parents.

I was also a gross anatomy teaching assistant during my second and third years of medical school, and was selected to be the lead TA during my fourth year of medical school. As a result of my teaching activities, textbook development and dedication to mentoring students, I was given the honor of graduation with Distinction in Medical Education, an award reserved for those recommended by a committee of senior faculty at the Icahn School of Medicine. Additionally, the medical school was kind enough to name an award in my honor, which has been given out for the last six years to students who show an extraordinary dedication to helping their classmates succeed in medical school.

As a resident, I dedicated a significant portion of my time to education of medical students and junior residents. As an intern, I was chosen by the third-year medical student class to receive the Gold Humanism Award for Humanism and Excellence in Teaching. A number of medical students have communicated that as a result of my teaching, they have decided to pursue careers in anesthesiology. At the conclusion of my residency, I was thrilled to be honored with the award as best resident teacher in the Mount Sinai Health System.

Since arriving at Johns Hopkins Hospital, I have begun creating a universal cross-platform digital textbook for OB anesthesia education, and have begun IRB submission to study its impact on resident learning.

Grants, Contracts and Foundation Support

Past Grants:

Funding Source, Project title & Number	Role in Project	Dates	Direct Costs	Supplemental Info
A Team Model for Floor Intubations: Impacts on Stress and Patient Outcomes GCO# 10-0584 Internal funding	<i>Co-Investigator</i>	5/10 – 9/10	None	N/A
Creation of an iBook for Anesthesiology Resident Education HS# 15-00230	<i>Principal Investigator (PI)</i>	5/15 – 6/17	None	N/A

Current Grants:

Funding Source, Project title & Number	Role in Project	Dates	Direct Costs	Supplemental Info
Sign Safari: Facilitating the adventure of bedside education by residents, for residents.	<i>Co-Investigator</i>	7/17 - Present		Application submitted to ACGME for funding through “Back to Bedside” initiative
Technology Survey of Residency Program Directors and Chairs	<i>Principal Investigator (PI)</i>	1/16 - Present	None	N/A

Pending Grants:

Not applicable

Clinical Trials Participation:

Not applicable

Teaching Activities

Teaching Activity/Topic	Level	Role	Level and Number of Learners Taught and Venue	Number of hours week / month / year	Evaluation Summary	Years Taught
Senior Tutor	Medical School	Senior tutor	12 students, individual tutoring	6 h/week	See addendum	2012 - 2013
Gross Anatomy	Medical School	Lead Junior TA	120 students, gross anatomy lab	8h/week	Overall rating: 4.68/5 (n=97)	Fall 2010
Gross Anatomy	Medical School	Lead Senior TA	120 students, gross anatomy lab; 120 students, weekly review sessions	12h/week	Overall rating: 4.63/5 (n=68)	Fall 2012
Anesthesiology Simulations	Residency	Instructor	Third and fourth-year medical students, 5-10 per session, 1-2 sessions per month	2 h/week	Not available	9/2015 - 6/2017

Publications

Peer Reviewed Original Publications

Berman DJ, Knibbs N, Friedman L, Rocco M. Postpartum hemoptysis as presenting sign of longstanding vasculitis. *Int J Obstet Anesth* 2018;36:122–5.

Nguyen T-A, Kim I, **Berman D**, Murphy J, Isaac G. Successful anesthetic management of parturient with advanced abdominal pregnancy. *Anesthesiol Case Rep* 2018;1(1):16–7.

Nguyen T-A, Duarte SS, **Berman DJ**, Jancic L, Murphy JD. Successful Management of an Emergent Cesarean Delivery in a Patient with History of Ross Procedure: A Case Report. *Anesthesiol Case Rep* 2018;1(1):10–2.

DeMaria S, **Berman D**, Goldberg A, Lin H-M, Khelemsky Y, Levine AI. Team-based model for non-operating room airway management: validation using a simulation-based study. *BJA* 2016;

Peer-Reviewed Society Publications

Zambare S, Munnur U, **Berman DJ**, Wali A. High-Flow Nasal Cannula in Pregnancy. Society for Obstetric Anesthesia and Perinatology Newsletter (Spring 2019).

Book Chapters

Berman, DJ. Boggs, S. “Office-Based Anesthesia” in Sweitzer, Bobbiejean. 2017. “Preoperative Assessment and Management, 3rd edition.” Lippincott Williams & Wilkins.

Berman DJ, Toure B. Neurosurgery in Pregnancy. In: Traul DE, Osborn IP, Anitescu M, editors. Neuroanesthesia: A Problem-Based Learning Approach. Oxford University Press; 2018. p. 175–89.

Correspondence

“The Mail.” 2017. *The New Yorker*. The New Yorker. September 25.
<https://www.newyorker.com/magazine/2017/10/02/letters-from-the-october-2-2017-issue>.

Berman DJ. In-training Exams, Performance, and Exam Fatigue. *Anesthesiology* 2018;129(6):1189.

Abstracts Presented at National Meetings

Fritton JC, Chinitz N, **Berman D**, et al. Atherogenic treatment impairs age-related cortical bone adaptation in female rabbits. *J Orthop Res* [Internet] 2007; Available from: <https://www.ors.org/Transactions/53/1396.pdf>

Fritton JC, **Berman D**, Inagaki K, LeRoith D, Schaffler MB, Jepsen KJ. Slender long bone in a skeletal-muscle specific IGF-1/Insulin receptor defective mouse. San Diego, CA: The Orthopaedic Research Society [Internet] 2007; Available from: <https://www.ors.org/Transactions/53/1331.pdf>

Berman, D., Demaria, S., Beilin, Y., Lin, H.M., and Levine, A. “A Team Model for Floor Intubations: Impact on Recognition of Critical Events During Intubation,” Mount Sinai School of Medicine, Sixteenth Annual Medical Student Research Day, November 4th, 2010.

Berman, D., Soriano, R. “Utilization of a Novel iBook in Learning and Reviewing Physical Exam Skills,” Icahn School of Medicine at Mount Sinai, 10th Annual Educational Research Day, April 24th, 2013.

Berman, D., Levine, A. “Creation of a Digital iBook Curriculum for Anesthesiology Residents,” New York Academy of Medicine, Anesthesiology Resident Research Night. September 30, 2015.

Berman, D., Levine, A. “Curriculum of the Future; iBooks in Medical Education,” New York State Society of Anesthesiologists, 69th Annual Postgraduate Assembly, New York NY. December 13th, 2015.

Berman, D., Levine, A. “The iBooks Platform as the Next Generation in Medical Education,” Society for Technology in Anesthesia 2016 Annual Meeting, Palm Beach FL. January 7th, 2016.

Berman, D., DeMaria, S., Lin, H-M., Levine, A. “A Team-Based Model for Non-Operating Room Airway Management: Validation using a Simulation Study,” IMSH 2016, Society for Simulation in Healthcare, San Diego CA. January 17, 2016.

Berman, D. Levine, A. “Improving Retention Through iBook-Enriched Residency Curriculum,” Institute for Medical Education’s Education Research Day, Icahn School of Medicine at Mount Sinai, New York NY. April 19. 2016.

Berman, D. Levine, A. “Anesthesiology Curricula for the 21st Century; A Pilot Study and Mount Sinai’s Experience,” American Society of Anesthesiologists Annual Meeting, Chicago, IL. October 23, 2016. (*Paper accepted for presentation but not presented due to family member illness.*)

Berman, D. Toy, S. Nguyen, T. Isaac, G. Murphy, J. “Creation of a Digital iBook Curriculum for Anesthesiology Residents,” Johns Hopkins Anesthesiology and Critical Care Medicine Research Night, Baltimore, MD. December 4th, 2017.

Berman, D. J., Baker, S., & Lindeman, K. (2018, October). *Effect of labor epidural analgesia on the probability of Cesarean section: an updated analysis.* Presented at the Society of Obstetric Anesthesia and Perinatology Annual Meeting, Miami, FL.

Berman, D. J., Miller, J., Nguyen, T.-A., & Murphy, J. (2018, May). *Fetal Surgery Meets ERAS: Implementation of a New Anesthetic Protocol for Fetoscopic Myelomeningocele Repairs.* Presented at the Society of Obstetric Anesthesia and Perinatology Annual Meeting, Miami, FL.

Berman, D. J., Murphy, J., & Vaught, A. J. (2018, May). *A Patient with ARVD Undergoing Uncomplicated Vaginal Delivery.* Presented at the Society for Obstetric Anesthesia and Perinatology Annual Meeting, Miami, FL.

Kim, I., Nguyen, T.-A., **Berman, D. J.**, Murphy, J., & Isaac, G. (2018, October). *Successful Anesthetic Management of Parturient with Advanced Abdominal Pregnancy.* Presented at the Society of Obstetric Anesthesia and Perinatology Annual Meeting, Miami, FL.

Invited Lectures / Presentations

Management of the Difficult Airway, Section on Awake Fiberoptic Intubation
Co-Presenter: Daniel Katz, MD
12/2014
68th Annual NYSSA PGA, New York, NY

Airway Topicalization for Fiberoptic Intubation
Co-Presenters: Daniel Katz, MD and Andrea Luncheon-Hillman, MD
12/2015
69th Annual NYSSA PGA, New York, NY

Case Conference: Abdominal Compartment Syndrome
Co-Presenter: Andrew Leibowitz, MD, Chair of Anesthesiology
3/2016
Department of Anesthesiology Grand Rounds
The Mount Sinai Hospital, New York NY

Designing Smart Educational Curricula: A How-To Guide for Educators
Co-Presenter: Adam Levine, MD

10/23/2016

American Society of Anesthesiology Annual Meeting, Chicago IL
(Proposal for workshop accepted but not presented due to family member illness.)

Performing a Smooth Awake Fiberoptic Intubation From Start to Finish

Co-Presenters: Daniel Katz, MD and Morgane Giordano, MD

12/2016

70th Annual NYSSA PGA, New York, NY

Case Conference: Eliasberg Resident Research Program

Co-Presenter: Andrew Leibowitz, MD, Chair of Anesthesiology; Samuel DeMaria, MD, Director of Division of Liver Transplantation

5/9/2017

Department of Anesthesiology, Perioperative and Pain Medicine Grand Rounds

The Mount Sinai Hospital, New York NY

ACCRAC Podcast: Neuraxial Drug Choices 101

Co-Presenters: Jed Wolpaw, MD, Residency Program Director; Truc-Anh Nguyen, MD, Obstetric Anesthesia Co-Fellow

9/29/2017

ACCRAC Podcast, <http://accrac.com/>

Case Conference: Hypertrophic Obstructive Cardiomyopathy in Pregnancy

Co-Presenter: Karen Lindeman, MD, Associate Professor of Anesthesiology and Critical Care Medicine

1/18/2018

Department of Anesthesiology and Critical Care Medicine College Day

The Johns Hopkins Hospital, Baltimore MD

Case Conference: Postoperative Neck Hematomas - Airway Management Implications

8/30/2018

Department of Anesthesiology and Critical Care Medicine College Day

The Johns Hopkins Hospital, Baltimore MD

Educational Technology 101: Creating Resources that “Stick”

10/2/2018

Department of Anesthesiology and Critical Care Medicine Fellowship Directors’ Annual Meeting

The Johns Hopkins Hospital, Baltimore MD

Media Resource Educational Materials

Guide to the Physical Exam (2011) – David Berman and Rainier Soriano, MD

Hematology and Oncology for Medical Students (2013) – David Berman and Eileen Scigliano, MD

Introduction to Anesthesiology (2015) – David Berman, MD and Adam Levine, MD

Johns Hopkins Resident Handbook of Obstetric Anesthesiology (2019) - David Berman, MD, Gillian Isaac, MD, PhD, and Jamie Murphy, MD

Management of Local Anesthetic Systemic Toxicity – A Simulator-Based Approach. In preparation for McGraw-Hill’s forthcoming online anesthesiology simulator. Joshua Heller MD, David Berman MD and Yury Khelemsky MD.