

City of Newton, Massachusetts Office of the Mayor

Telephone (617) 796-1100 Fax (617) 796-1113 TDD/TTY (617) 796-1089 Email rfuller@newtonma.gov

#253-23

June 12, 2023

Honorable City Council Newton City Hall 1000 Commonwealth Avenue Newton, MA 02459

To the Honorable City Councilors:

I am pleased to appoint Dr. Carolyn Bernstein of 111 Dickerson Road, Newton Highlands 02461 as a registered physician member of the Health and Human Services Advisory Council. Her term of office shall expire on January 1, 2026 and her appointment is subject to your confirmation.

Thank you for your attention to this matter.

Warmly,

Ruthanne Fuller

Mayor

Newton, MA Boards & Commissions

Application Form

Submit	Date:	Aug	20,	2022
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Profile				
Carolyn First Name	Middle Initial	bernstein Last Name		
Email Address			·	
111 Dickerman Rd			111 Dicker	rman Rd
Home Address			Suite or Apt	
Newton Highlands			MA	02461
City			State	Postal Code
What Ward do you live in?				
₩ard 7				
Primary Phone	Alternate Phone			
Brigham and Womens Hospital Employer	physician Job Title		MANAGEMENT, AND	
Which Boards would you like	to apply for?	•		
Health and Human Services Advis	sory Council : S	Submitted		1.
Interests & Experiences				
Please tell us about yourself and	d why you wa	nt to serve.		
Why are you interested in ser			n?	
I have been a lifelong resident of I	Vouton and h	ave tremendous res	nect and affection	for the city. I would

opportunity arises. I have a strong interest in community focused health advocacy and outreach, and would welcome the change to contribute.

like to contribute my 30 plus years of expertise as a practicing physician to this council if/when an

Bernstein CV August 2022.docx

'Úpload a Resume

Harvard Medical School Curriculum Vitae

Date Prepared:

May 12, 2022

Name:

Carolyn A. Bernstein, MD

Office Address:

BWH Osher Clinical Center Suite 422

850 Boylston St

Chestnut Hill, MA 02467

Work Phone:

Work Email:

Place of Birth: Boston, MA

Education

09/78-06/82 AB (Honors)

American History

Brown University

07/82-08/83 Research assistant

Cardiac Muscle Research

Boston Medical Center

Lab.

Boston University

MD

09/83-05/87 Medicine

Postdoctoral Training

06/87-06/88

Intern

Medicine

Boston City Hospital

Boston, MA

07/88-

Resident

Neurology

New England Medical Center, Boston, MA

06/91

Faculty Academic Appointments

1992-2006 Instructor

Neurology

Harvard Medical

School

2006-

Assistant Professor Neurology

Harvard Medical

School

Appointments at Hospitals/Affiliated Institutions

1982-	Research Assistant	Department of	Boston Medical Center
1983		Medicine	
1991-	Neurologist	Medical Staff	Neurological Services
1992			PC

			Framingham, MA
1992- 1997	Consulting Neurologist (Courtesy Staff)	Medical Staff	Mt. Auburn Hospital Cambridge, MA
1992- 2003	Consulting Neurologist	Medical Staff	Youville Rehabilitation Hospital, Cambridge, MA
1992- 2005	Consulting Neurologist	Medical Staff	Harvard University Health Service
1992- 2005	Consulting Neurologist	Medical Staff	MIT Health Service Cambridge, MA
1992- 2009	Neurologist	Medical Specialtic Center	es Cambridge Hospital Cambridge Health Alliance
1992- 2009	Neurologist	Medical Staff	Cambridge Health Alliance
1992- 2009	Associate Neurologist	Neurology	Massachusetts General Hospital, Boston, MA
2006- 2009	Physician and Director	Women's Headad Clinic	the Somerville Hospital, (Cambridge Health Alliance)
2009- 2015	Neurologist	Department of Anesthesia, Critic Care and Pain Medicine and Department of Neurology	Beth Israel Deaconess cal Medical Center, Boston, MA
2015-	Associate Neurologist	Department of Neurology	Brigham and Women's Hospital, Boston, MA
Local	dministrative Lead	ership Positions	Ieurology Brigham and Cambridge Hospital,
1992-20	09 Director, Neurology Teaching	y Nesident	Cambridge, MA

1994-20	09 Director, Neurology Section, Pai Doctor II	tient	- Neurology Section, Patient- Doctor II, Cambridge Hospital, Cambridge, MA
2000-200	06 Director, Multiple Sclerosis Supp Group	oort	Cambridge Health Alliance
2000-200	9 Director, Headache Clinic		Cambridge Health Alliance
2001-200	07 Clinical Director, Medical Specia Center	lties	Cambridge Health Alliance
2004-200	9 Clerkship Director, Neurology		Harvard-Cambridge Integrated Clerkship, HMS
2005-200	9 Co-Director, Division of Integrati Therapies	ive	Cambridge Health Alliance
2009-201	5 Clinical Director, Harvard Medica Faculty Physicians Comprehensi Headache Center	al ve	Beth Israel Deaconess Medical Center, Boston, MA
Regional			
2020-	Director, Patient Outreach Responsible for planning patient sessions at Professional HCNE meetings to educate on latest migraine treatments and supports	He En	adache Cooperative of New gland
Committe Local	ee Service		
	2 Executive Council		ıville Rehabilitation Hospital, mbridge, MA
2001-200	3 Executive Committee	Car	mbridge Health Alliance
2002-2009	Physicians Health Committee	Car	mbridge Health Alliance
	2004-2009 Chair		
2002-2009	Committee to Revise Third Year Clerkship	Har	vard Medical School
2014-2015	5 Ethics Liaison Committee		h Israel Deaconess Medical nter
2016-	Financial Committee		partment of Neurology, BWH

Department of Neurology, BWH Chair, Finances Committee 2019 Department of Neurology, Physician Wellness Committee 2018-**BWH** Harvard Medical HMS Task Force to Address Racism 2020-School **National** Association of Migraine Advisory Board Member 2020-Disorders **Professional Societies** American Academy of Neurology 1991-AB Baker Committee for Teaching and Education 2000-2017-Integrative Neurology section Ad hoc Reviewer for Practice Recommendations in 2001-Headache 'Neuroscience is Cool' Committee 2017 Neurohealth and Integrative Neurology Committee 2016-Vice Chair, Neurohealth and Integrative Neurology 2022-Committee 2009-American Headache Society **Fellow** 2014-Integrative Therapies Section 2017-Women's issues Section 2017 -2020 -Vascular Neurology Section 2015-North American Menopause Society Headache Cooperative of New England 2015-Member, The Academy at Harvard Medical School The Academy is responsible for professional development of 2019faculty who teach in the MD program. Its role is also to develop and support a community of leaders in education and a culture of excellence in teaching and learning, to foster the careers of educators in medicine and science, to provide programming to improve the skills of teachers, to stimulate and support the creation and implementation of innovative approaches to learning and assessment, and to support educational research and scholarship in medical and graduate education. -Attend meetings, working on curriculum development 2021-Board of Directors, Scholarship Selection Committee,

Community Outreach

Brigham and Women's Hospital

2022-

Massachusetts Medical Society

Editorial Activities

Ad Hoc Review

Headache Up to Date Cephalagia New England Journal Menopause

Other Editorial Activities

2005	Contributing Editor, J Neurology	ournal Watch,		gland Journal of e 2005:7(6)
2013	Co-Editor (with A. Bai Women: A Clinical Gu	-	Springe	r
2017	Co-Editor (with T. Tak Problems During Pred		Springe	r
2022 (2022—in	Co-Editor (with O. B. d press) You Do Next?	e Dhaem; Heada	che: Wh	at Oxford Press
Honors a	nd Prizes			
1998	Teaching Award	Cambridge Healt Alliance	th	Excellence in Teaching
2002, 2003, 2004, 2005	Mention, Patient Doctor students	Harvard Medical	School	Excellence in Teaching
2003	Citation, Excellence in Neurologic Education		my of	Excellence in Teaching
2005	Nomination, Clinical Teaching Award	Harvard Medical	School	Excellence in Teaching
2006	Faculty Award for Teaching Excellence, Clinical Years	Harvard Medical	School	Excellence in Teaching

2007	Leonard Tow Award for Humanism in Medicine	Arnold P. Gold Foundation	Teaching
2007	Headache Healthcare Provider of the Year		Clinical Excellence
2018	Partners in Excellence Award		Community Outreach
2020	Nomination, Dean's Award for Community Service		ool Community Service
2022	Pillars of Excellence A	ward. BWH	Patient Care

Report of Funded and Unfunded Projects

Current:

2016-2020 IMPACT Study: Chiropractic Care for Migraines

Palmer Chiropractic, Osher Center at HMS Role: Co-Investigator (PI: Peter Wayne PhD)

Pilot study looking at reduction in headache days and other measures for patients with moderate frequency migraines receiving a personalized chiropractic intervention.

2016- Group Visits for Integrative Care Techniques for Migraine

Patients

Lavine Family Initiative—Philanthropic donation

Role: PI

Direct costs: \$5000

Project looking at a curated multi-session group visit for migraine patients to teach multiple non-drug self-care techniques; 22 10 patient groups have now been completed

2016- Brain Science for Third Graders

Boston Scientific (grant via community outreach)

Role: PI

Direct costs: \$30,000; funded with community outreach grant from Boston Scientific and private philanthropic funding Elementary school brain science teaching project, working with neurology residents, teachers in the Boston Public Schools and BWH community outreach

2018- ACT for Migraines

Lavine Family Initiative—Philanthropic donation

Role: Pl

Direct costs: \$500,000

Pilot study using Acceptance and Commitment Therapy (ACT) for high frequency migraine patients to look at improvement in

quality of life, decreased headache days and artificial

intelligence and cortisol level testing

In conjunction with cognitive neuroscience at MIT, now pivoted

to virtual intervention

2021- BWell Grant Recipient

Co-PI on study to reduce physician burn-out at BWH with evaluation of in-basket burden

Current Unfunded Projects

2019- Fertility and Migraine: A Longitudinal Study

Ρl

2015

Pilot study assessing migraine variables during IVF, in

conjunction with Boston IVF

Report of Local Teaching and Training

Teaching of Students in Courses:

1992-2009 Patient-Doctor II, Neurology Section 2 nd year medical students	Harvard Medical School Six 4-hour sessions per year

2002-2009 Patient-Doctor II.	Harvard Medical School
2 nd year medical students	Two students, 2 clinics
•	per month, several times

per year

2002	HMS SIGN Group	Harvard Medical School
	Medical student interest group	Lecture, 20 students

2004-2009 Cambridge Integrated Clerkship: 12 students, 4 3-hour Confusion, Back Pain, Headache, and sessions per year

Stroke lectures

Medical students

Four 3-hour sessions per year

2004-2009 Neurology Curriculum Harvard Medical School 3rd year medical students

2005- Healer's Art Harvard Medical School

Course on language and human connection in medicine for1st year medical students based on national

2022 Si	curriculum by Rachel Remens MD mulation session, Lumbar Puncture	HMS First Year
students, 3	3 hrs	
	aching of Residents, Clinical Fellows	s and Research Fellows
(post-doc 1992 -	S): Neurology Conferences	Cambridge Hospital
2009	Psychiatry residents	Four 1-hour sessions per year
2009-2015	Case Conferences Anesthesia fellows	Arnold Pain Management Center, BIDMC 6 hours/year
2011, 2015	Headache Management and Psychiatric Co-morbidities Psychiatry residents	Beth Israel Deaconess Medical Center. 1 hour/year
2015	Headache Management During Pregnancy Obstetrics and Gynecology residents	Beth Israel Deaconess Medical Center. 1 hour/year
2016- 2019	Headache Management, Primary Care residents	BWH 2 hours/year
2017-	Multiple teaching sessions for Headache fellows	BWH 4 sessions/year
2018, 2019, 2020, 2021, 2022	Headache Management, Neurology residents	BWH 4 hours/year
2019	Headache Case Conference Workshop, Fish Center Physicians	BWH 1 session per year
2022 session	Integrative Neurology, Neurology r	residents BWH. 1
Clinical S	upervisory and Training Responsibili Preceptor in Neurology for primary care pre-psychiatry, and other residents, Cambridge Hospital	ities: e, 10 hours/week
1992-2009	Supervision of 4th year medical student on Neurology rotation	s One to two months per year
2004-2009	Preceptor in Neurology, Cambridge	2004-2009 (32 hours

	Integrated Clerkship students, Harvard Medical School	per week of teaching and supervision)
2009-2015	Preceptor in Pain Management for fellows, Headache Center at Beth Israel Deaconess Medical Center	18 sessions/year
2009-2015	HMS students, BIDMC neurology residents, BCH residents	1 resident/med student per month
2015-	Headache Fellowship Preceptor, BWH John Graham Headache Center	8 hours/week
2015-	HMS students, BWH Primary Care residents	4 hours/month
2017-	Preceptor, BWH Neurology Resident Clinic	4 hours/month
2020- 2022 hour sessio	l Preceptor, Women's Neurology Fellow	four 4-
	Supervised Trainees and Faculty: Susan Walker, MD/Child Psychiatry Atten Cambridge Hospital Mentored as a Pre-Psychiatry Intern.	ding Physician,
2002-2004	Anne Brewster, MD/Attending Physician, MGH Mentored as a Senior Resident at Cambr	
2004-2005	Jennifer Siegel MD/ Assistant Professor o	
2004-2005	Medical Center supervised and mentored as CIC student neurology teaching, CHA/ HMS	
2005-2006	Jennifer Radesky MD/Assistant Professor of Michigan supervised/mentored as CIC Grand Rounds presentation at CHA/HMS	
2007-2008	Michael Tang MD/Child Psychiatrist, Dimo supervised/mentored as CIC student, pre evaluation and development of care plan Parkinson's, CHA/HMS	ecepted in longitudinal
2008-2009	Erica Kaye MD/Pediatric Oncologist, St Ju supervised/mentored as CIC student, Ion	de's Medical Center gitudinal evaluation and

care delivery for neurology patients CHA/HMS

Sarah Zaman MD/Pediatric Hospitalist, Seattle Children's

- 2016- supervised/mentored as CIC student, precepted presentation at HMS conference on "Headache" CHA/HMS
- 2016- Emily Ferenczi MD Neurology resident/fellow at BWH, mentoring in education project for school children. Nominated her for AAN award (received), poster presentation and curriculum development for this project Andrea Harriott MD PhD BWH Headache fellow, now attending MGH, supervised recent master's degree project, participated in thesis defense, now supervising fertility research project
- 2016-17 Yulia Orlova MD, BWH Headache fellow, mentored advised, supervised, assisted with career planning Currently Asst Professor of Neurology, University of Florida
- 2017-2018 Angeliki Vgontzas MD, supervised as Headache Fellow BWH, mentored, prepared case p presentation which led to publication, Currently Instructor in Neurology. HMS
- 2018-2019 Jennifer Hranilovich MD, mentored and supervised as BWH Headache Fellow, advised on research projects and use of CIM in headache care, currently Asst Professor Pediatrics- Neurology, U Colorado
 2019-2020 Alise Pham OD mentored and supervised as BWH Headache fellow, assisted with r research project on CGRP mabs for migraine, now private practice in Carlsbad, CA
- 2019-2020 Eric Kaiser MD PHD mentored and supervised as BWH headache fellow, lectured on CIM for headache and other topics, currently Instructor in Neurology, UPenn Med School,
- 2019- Olivia Begasse de Dhaem MD—mentored, supervised, coauthored publication as BWH Headache fellow, have submitted book proposal to Oxford press jointly, currently I instructor in Neurology, Columbia U. School of Medicine and faculty Stamford Health Center
- 2020- Onasis Soto, BWH Community Outreach Scholarship student, now attending college,
- Mentoring him as a pre-med and helping him to prepare his application for medical school

2021-2022. Brittany Mays MD—mentored and supervised during headache fellowship, co-writing research paper on Craniosacral Therapy for Post-Concussive Headache

2021-2022 Jasmin Harpe MD—supervised during headache fellowship, mentoring and co-writing research paper on Fertility and Migraine

Formal Teaching of Peers:

No presentations below were sponsored by outside entities.

2002-2004	Workshop on Headache Primary Care Principles and Practice Course Harvard Medical School	Single presentation annually Boston
2009	Headache and Facial Pain CME Course, Harvard Medical School	Lecture and several panel discussions
2009, 2010	Headache Management Current Concepts in Headache, Harvard Medical School and Beth Israel Deaconess Medical Center	Single presentation annually
2010, 2011	Headache Workshop Primary Care: Principles and Practice Harvard Medical School	Single presentation Boston
2013, 2014	Principles and Practice of Pain Medicine HMS CME	Single presentation, Boston
2016, 2017, 2108, 2019, 2020, 2021,2022	Update in Primary Care: Headache HMS CME	Single presentation, Boston
2020, 2021. 2022	Complementary and Integrative Medicine for Headache and Pain, HMS CME	Single presentation, Boston
2020, 2021,2022	CIM for Headache and Pain, Neurology for the Non-Neurologist, HMS CME	Single presentation, Boston

Local Invited Presentations:

	rations below were sponsored by outside entities. Neurology Topics/Medical Grand Rounds (4 per year) Cambridge Hospital, Cambridge, MA
2003	Hormonal Headaches/Grand Rounds Obstetrics and Gynecology, Cambridge Hospital, Massachusetts
2003	Update on Multiple Sclerosis /Nursing Education Seminar Cambridge Health Alliance, Massachusetts
2004	Headache / Nursing Education Seminar Cambridge Health Alliance, Massachusetts
2004	Migraines / Nursing Education Seminar Cambridge Health Alliance, Massachusetts
2005	Hormonal Migraines / Grand Rounds Facial Pain Group, MGH, Massachusetts
2005	EEG Interpretation Psychiatry Conference, Cambridge Hospital
2006	Migraine: Diagnosis and Treatment/Medical Grand Rounds Cambridge Hospital, MA
2007	Headache and Facial Pain MGH/Tufts Facial Pain Group, Boston
2009	Headache and Facial Pain MGH/Tufts Facial Pain Group, Massachusetts
2010	Headache Identification / Grand Rounds Massachusetts Eye and Ear Infirmary, Massachusetts
2010	Headache Management Harvard Primary Care Group, Boston
2010	Headache Classification Health Care Associates, Beth Israel Deaconess Medical Center
2011	Headache and Stress Hebrew Rehabilitation Center, Boston
2013, 2015	Management of Refractory Headache, Principle and Practice of Pain Medicine, BIDMC Department of Anesthesia, Critical Care and Pain Medicine

2016	16 Integrative Medicine in Neurology Brigham and Women's Hospital			
2016	Osher Center Grand Rounds Brigham and Women's Hospital			
2017	Presentation for Amgen on Migraine Impact HMS External Education			
2017	Osher Center Grand Rounds Brigham and Women's Hospital			
2022	Women's Health speaker on Migraine and Menopause MGH/HMS			
2022	Headache for ENT specialists Mass. ENT Society			
Report of	Report of Regional, National and International Invited Teaching and Presentations			
Regional	tations below were sponsored by outside entities.			
2000	Secondary Stroke Prevention/Medical Grand Rounds Bedford VA Hospital, Massachusetts			
2001-2002 2005	, TIA and Stroke / Medical Grand Rounds Youville Rehabilitation Hospital, Massachusetts			
2018	Headache in Women Mass. Neurologic Association Boston, MA			
2020	Neurology Grand Rounds, Hormones and Headaches Dartmouth College School of Medicine, Hanover NH (virtual)			
2020	Headaches and Hormones Fenway Community Health Center Boston MA			
2021 Pain	Complementary and Integrative Medicine for Headache and			
	Headache Cooperative of New England Stowe Meeting			
National Those presentations below sponsored by outside entities are so noted and the sponsor is identified.				

2006	Management of disabling migraine episodes Women's Health Congress UCLA Medical School, San Diego, CA (Reed-Elsevier)
2007	Strategies for managing patients with migraine UCLA Medical School, San Diego, CA (Reed-Elsevier)
2010	Headache classification and management American College of Physicians National Meeting, Toronto, Canada
2011	Update on Migraine with Aura / Neurology Grand Rounds Johns Hopkins University, Baltimore, MD
2015	Injections and Surgical Options for Headache Breakthroughs in Neurology, American Academy of Neurology Phoenix, AZ
2017	Integrative Medicine Workshops for Migraine Patients: The Power of the Group Academy of Integrative Health and Medicine, San Diego, CA
2019	Neurology Grand Rounds, Hormones and Headaches Georgetown University School of Medicine, Washington DC
2020	Headache Grand Rounds, CIM for Headache and Pain Children's Hospital of Pennsylvania (virtual)
2020	Neurology Grand Rounds, Telemedicine for Headache Providers, Wake Forest Medical Center, Winston-Salem, North Carolina
2020	Grand Rounds, Institute of Medicine and the Humanities, Complementary and Integrative Medicine in the Experience of Pain University of Montana (virtual)
2021	andron Annie o CAL II D. III D. III II

- 2021 American Academy of Neurology, Presentation on Integrative Neurology, (virtual)
- 2021 American Headache Society, "A Physician's Perspective on Treating Headache Patients During the Pandemic (virtual)

2021 "Management of Migraine during Mid-life and Menopause", North American Menopause Society National meeting, Washington DC (live)

2022 "Headache Management", American College of Physicians National Meeting, Chicago, IL

International

No presentations below were sponsored by outside entities.

2008 Women's Headache: Symptoms and treatment Daiuke Hospital, Nagoya, Japan

2015 Headache Management International Association for the Study of Pain Buenos Aires, Argentina

2021 Complementary and Integrative Medicine for Headache and Pain

Besta Neurologic Institute. Milan, Italy

2021 Headaches and Hormones, Neurology Grand Rounds, Sheba Hospital, Tel Aviv, Israel

2021 Complementary and Integrative Medicine for Headache, University of Sao Paolo, Brazil

2022 Headache Evaluation and Cases, Royal College of Surgeons, Dublin, Ireland

Report of Clinical Activities and Innovations

Current Licensure and Certification:

1990 Massachusetts Board of Registration

1994 American Board of Psychiatry and Neurology (Neurology)
2004, 2014 Recertification, American Board of Psychiatry and Neurology

(Neurology)

2008, initially, Headache Medicine, United Council for Neurologic

recertified Subspecialties

through 2028

2021- Licensed in Vermont, New Hampshire, Maine,

Connecticut, Rhode Island, Florida

Practice Activities:

1991-2006 Neurologist Cambridge Health Five clinical Alliance sessions/week

2006-2009 Headache Medicine

Opened and directed Women's Headache Center at Cambridge Health Alliance: conceptualized multidisciplinary headache center for women with integrative specialists co-located, taught residents and medical students, developed national referral base Recruited to Anesthesia to direct Translation Research and clinical Headache Center

2009-2015 Headache

Medicine

BIDMC

2015-

Headache Medicine

BWH Neurology. Division of Headache

Medicine

Six sessions per week

Clinical Innovations:

Women's (2006-2009)

Director, Women's Headache Center at Cambridge Headache Center Health Alliance—conceptualized unique model to include patients in designing a multidisciplinary center including traditional neurologic care and integrative therapies in one setting. Had patient workgroups to help design the practice. Within a month of opening. practice was saturated with referrals and continued to expand, drawing from a national base.

Author of unique patient-focused nonfiction book about migraine (2008)

The Migraine Brain, Free Press (Simon and Shuster), published in US, UK, Romania and Czech Republic. Book was number 1 in science and health on Amazon sellers for first week. National Television appearances including The Today Show and Unavision. Interviewed by Terri Gross for NPR in addition to 30 plus appearances on national radio. Book to date has sold over 32K copies. This book is unique in that it focuses on both evidenced data about migraine management as well as patient stories of their own experiences. This has generated national and international referrals.

Harvard Medical Faculty Physicians Comprehensive Headache Center 2015)

Patients bring the book to their consultations and describe the impact on their lives. It continues to be an 'evergreen", selling in print and electronic forms.

IMPACT study (2017 - 2020)

at BIDMC (2009- Director, HMFP Comprehensive Headache at BIDMCfounder and director of translational research center on site with clinical care within Anesthesia Department, built panel of over 3000 patients, pioneered exercise interventions, expressive art therapy, yoga workshops and research opportunities including NIH funded study on photophobia and migraine

The Migraine Toolbox (2016 - present)

Research funding received for pilot project "IMPACT study" to look at chiropractic care for migraine patients. Served as Co-I, screened all patients, developed protocol, now reviewing outcomes and writing research articles. Plan to use pilot data to prepare application for major grant funding and expansion

2017-

Conceptualized and developed The Migraine Toolbox, a unique group visit for migraine patients to offer community, shared experience and education about self-care, mindfulness, integrative therapies and nutrition. To date, we have run 30 groups, registering 10 patients per group, and are collecting data to share this as a "best practice" initiative. Sessions are now taught on Zoom, and curriculum is shared nationally

Major gift recipient for projects in Integrative Medicine for Migraine and Pain Management—workshops, mindfulness research, neuroimaging of Pain, yoga/art therapy for patients with pain and headache, yoga for other neurologic diagnoses. Donor has agreed to ongoing support for these projects. Expect to use outcomes data and patient reviews to add these nondrug therapies into standard of care for patients with pain and headache. Developing new treatment paradigms that shift focus from purely medication to patient self-care and integrative therapies as evidenced.

Report of Teaching and Education Innovations

2016- Have designed curriculum for integrative medicine

workshops for headache and pain patients with superb feedback, have presented on this unique approach at national meetings, shared curriculum nationally via

publication and presentation

2016- Member of "Neuroscience is Cool" workgroup at AAN;

initiated education program for neurology residents around community service for third grade brain science teaching project in the Boston Public Schools. This program focuses specifically on under-resourced students to connect them with scientists and

physicians. Have developed this project in concert with BWH Community Service, received grant funding from pharma, brought internationally acclaimed speaker for day of outreach and activities, have delivered consistent STEM teaching in Boston Public schools 3rd and 4th grade

classrooms, working with and co-teaching with

neurology residents. Recipient of multiple philanthropic

gifts

2017, 2018, Educat

2019,

2020, 2021

Educator, Summer Science Academy in Boston, a program for high school students from under-resourced inner-city schools to learn about neuroscience.

Developed curriculum and for summer 2020, pivoted to an online program after receiving a donor gift of 35 laptops that made the experience possible for these

students

Report of Education of Patients and Service to the Community

Activities

1995-

American Academy of Neurology/Instructor
Developed and taught clinical neurology course to
elementary school children in Newton, including basic
neuroanatomy, with pictures and 3D representations, lab
work, neurology of senses, and mechanisms of brain
injury. did workshop with third graders at Nathan Hale
School in Boston about the brain and sensory systems.
This led to development of current Brain Science is Cool
project which I am currently leading.

Cambridge Senior Center/Lecturer Lecture on strike and stroke.	
Cambridge YMCA/Lecturer Lecture for the public on migraine headache	
Somerville Geriatric Center/Lecturer Lecture on dementia.	
Somerville Senior Center/Lecturer Lecture on aging and dementia.	
Today's Show, Fresh Air, WHYY, WILL, KGO, KMOX, numerous others: /Interviewee Discussion about migraine headache	
MSNBC, Newsweek, Boston Magazine, Newton Tab, Marie Claire, Cosmopolitan, Healthnet Radio, Doctor Radio, Martha Stewart Living Radio, Fox TV, People Magazine / Interviewee Interviews on the migraine brain	
The London Times, London Standard, BBC, Natural Living/Interviewee Interviews on headache	
Monadnock Summer Lyceum lecture "How to Protect your	
Brain"	
CNN, Broadcasts on cycling and migraine, art therapy and migraine	
NPR, Fresh Air: broadcast on CBT and headache Reuters News: Financial Burden of Headache	
Self Magazine	
Shape Magazine, Crowd Science (BBC), Medium	

Books, monographs, articles and presentations in other media No presentations below were sponsored by outside entities.

2008	<u>Migraine Brain</u>	Author	Bernstein C , McArdle E. <u>The Migraine Brain: Your</u> Breakthrough Guide to Fewer	
			Headaches, Better Health. New York: Free Press, 2008, Published	

in Brazil, England, Australia, Romania

2017-	Harvard Health Newsletter	
ZUI/-	Tial valu Ticaltii Newsiettei	

Acupuncture for Headaches	January 2018	Bernstein CA, Langevin H
A Neurologist Talks about Kids and Headaches	February 2018	Bernstein CA
Active Mind/Body, Healthy Mind/Body	February 2018	Bernstein CA, Bullock CBB
CGRP: A New Era for Migraine Treatment	March 2018	Bernstein CA
How to Talk to your Doctor about Medication	April 2018	Bernstein CA
Take Control of Your Health Care: Exert Your Patient Autonomy	May 2018	Bernstein CA
An Insider's Guide to a Hospital Stay	August 2018	Bernstein CA, Bullock CB
Discontinuation Syndrome	April 2019	Bernstein CA, Bullock CB

Report of Scholarship

Peer-Reviewed Publications in print or other media Research Investigations:

- 1. Rosman NP, Gottlieb SM, **Bernstein CA**. Acute hemorrhagic leukoencephalitis: recovery and reversal of magnetic resonance imagining findings in a child. *J Child Neurol*. 1997;12(7):448-54.
- 2. Ogur B, Hirsh D, Krupat E, Bor D, Batalden M, **Bernstein C**, Callahan J, Cohen P, Elvin D, Garcia M, Gaufberg E, Gaufberg S, Ghosh A, Gutterson W, Shaffer K, Shtasel D. The Harvard Medical School-Cambridge Integrated Clerkship: An Innovative Model of

- Clinical Education. *Academic Medicine*. 2007;82. 397-404. 10.1097/ACM.0b013e31803338f0.
- 3. Gerber MR, Fried LE, Pineles SL, Shipherd JC, **Bernstein CA**. Posttraumatic stress disorder and Intimate partner violence in a women's headache center. *Women Health*. 2012 Jul; 52(5):454-71.
- 4. Buettner C, Nir RR, Bertisch SM, **Bernstein C**, Schain A, Mittleman MA, Burstein R. Simvastatin and vitamin D for migraine prevention: A randomized, controlled trial. *Ann Neurol*. 2015;78(6):970-81. PubMed Central PMCID: PMC4715556
- 5. Maleki N, **Bernstein C**, Napadow V, Field A. Migraine and Puberty: Potenital Susceptible Brain Sites, Semin Pediatr Neurol. 2016 Feb;23(1):53-9.
- 6. Noseda R, **Bernstein CA**, Nir RR, Lee AJ, Fulton AB, Bertisch SM, Hovaguimian A, Cestari DM, Saavedra-Walker R, Borsook D, Doran BL, Buettner C, Burstein R. Migraine Photophobia originating in cone-driven retinal pathways, Brain. 2016 Jul;139(Pt 7):1971-86.
- 7. Noseda R, Lee A, Nir RR, **Bernstein CA,** Kainz V, Bertisch S, Borsook D, Burstein R. Neural Mechanism for Hypothalamic Mediated Responses to Light During Migraine. *Proc Natl Acad Sci U S A*. 2017 Jul 11;114(28):E5683-E5692. doi: 10.1073/pnas.
- 8. Nir, RR, Lee A. **Bernstein CA**, Fulton A, Bertisch S, Hovaguimian A, Buettner C, Borsook D, Burstein R. Color-selective photophobia in ictal vs interictal migraineurs and in healthy controls. *Pain*. 2018 Oct;159(10):2030-2034.
- 9. **Bernstein CA,** Nir RR, Noseda R, Fulton AB, Huntington S, Lee AJ, Bertisch SM, Hovaguimian A, Buettner C, Borsook D, Burstein R. The Migraine Eye: Distinct Rod-Driven Retinal Pathways' Response to Dim Light Challenges the Visual Cortex Hyperexcitability Theory. *Pain*, 2019 Mar;160(3):569-578.
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- 1. Amgen consulted on migraine-related projects 2017-2020
- 2. Percept consultant on novel migraine-related wearable 2017-ongoing
- 3. Neurolytic consultant for migraine telehealth genetic diagnosis and treatment 2021-ongoing