

Curriculum Vitae—Hugo J. Aparicio, MD, MPH

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Academic Training:

- 5/2004 BA Emory University, Majors in Biology and Spanish, Atlanta, GA
- 5/2009 MD Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA
- 11/2016 MPH Harvard T.H. Chan School of Public Health, Clinical Effectiveness, Boston, MA

Additional Training:

- 7/2009-6/2010 Intern, Department of Medicine, Pennsylvania Hospital, Philadelphia, PA
- 7/2010-6/2013 Resident, Neurology, Hospital of the University of Pennsylvania, Philadelphia, PA
- 7/2013-6/2015 Fellow, Vascular Neurology, Viken Babikian, MD, Boston Medical Center, Boston, MA
- 7/2014-6/2016 Post Doctoral Research Fellow, Neuroepidemiology, Sudha Seshadri, MD, Framingham Heart Study at Boston University, Boston, MA, and Framingham, MA

Academic Appointments:

- 7/2016-present Assistant Professor of Neurology, Boston University School of Medicine, MA

Hospital Appointment or Other Employment:

- 8/2007-5/2008 Global Health Research Project Coordinator, PRISMA (NGO)/Johns Hopkins University
- 4/2014-present Investigator, Framingham Heart Study (FHS), Framingham, MA
- 7/2015-present Attending, Department of Neurology, Boston Medical Center, MA

Honors:

- 8/2017 National Institutes of Health Loan Repayment Program Renewal Award, NIH/NINDS
 - Awarded for research on “Stroke Prediction and Prognosis in the Framingham Study: Novel Risk Factors and Patient-Centered Outcomes”
- 1/2017 Spivack Emerging Leader in the Neurosciences, Boston University School of Medicine (BUSM)
 - Established to recognize and support the research of outstanding BUSM early career faculty pursuing neuroscience research
- 10/2015 House Staff Quality Improvement Project Award, “Improving Care for Stroke Patients through a Resident-Based Neurology Handbook,” Boston Medical Center
- 8/2015 National Institutes of Health Loan Repayment Program Award, NIH/NINDS
 - Awarded for research on “Body weight and survival after stroke in the Framingham Study”
- 6/2013 Neurology Educator Track, Certificate, Department of Neurology, University of Pennsylvania
- 5/2009 Global Health Track, Certificate, Perelman School of Medicine at the University of Pennsylvania
- 4/2007 Minority Scholars Program, American Academy of Neurology Foundation
- 7/2005 American Medical Association Foundation Minority Scholars Award
- 6/2004 John Burnham Scholarship, Perelman School of Medicine at the University of Pennsylvania
 - Merit-based scholarship award for medical school
- 5/2004 Marion Luther Brittain Award, Emory University, Emory University, Atlanta, GA
 - Presented each year at commencement to a graduate, from any academic division, "who has demonstrated exemplary service to both the university and the greater community without expectation of recognition"; considered the university's highest student honor
- 7/2003 Phi Beta Kappa National Honor Society, Emory University, Atlanta, GA
- 7/2001 Phi Eta Sigma National Honor Society, Emory University, Atlanta, GA

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- 7/2000 Robert W. Woodruff Scholar, Emory University, Atlanta, GA
- The signature merit scholarship of the [Emory Scholars Program](#)

Licenses and Certification:

- 9/2013 American Board of Psychiatry and Neurology, Neurology, #57967
8/2014 Subspecialty American Board of Psychiatry and Neurology, Vascular Neurology, #1174
5/2015 Massachusetts License #262850

Professional Development:

- 7/2014-8/2014 [Summer Program in Clinical Effectiveness](#), Certificate, Harvard T.H. Chan School of Public Health, Boston, MA
6/2015-5/2016 [Minority Faculty Leadership & Career Development Program](#), Boston University Medical Campus, Boston, MA
7/2016 Research Leadership Academy, American Heart Association, San Antonio, TX
Invited to join current and emerging leaders in cardiovascular and stroke research to discuss important contemporary and future issues in the research environment, acquire new leadership and management skills, and prepare to assume or sustain AHA leadership roles
6/2016-5/2017 [Academy for Faculty Advancement](#), Boston University Medical Campus, Boston, MA
8/2017 Emerging Health Care Leaders Course, Boston University Institute for Health System Innovation & Policy, MA

Departmental and University Committees:

Boston Medical Center (BMC)

- 7/2013-present Department of Neurology Quality Improvement Committee
7/2013-present BMC Stroke Task Force
4/2015-present Stroke, Neuro-Interventional & Neurocritical Care BMC Guidelines Committee
Responsible for updating “IV tPA Guideline: Acute Ischemic Stroke”
7/2016-present Joint Commission Comprehensive Stroke Center Certification Committee

Teaching Experience and Responsibilities:

Boston University School of Medicine (BUSM), Medical Students

- 12/2014-2/2016 Assistant Director and Faculty Liaison, Disease and Therapy Neurology Module
12/2014-present Annual lectures, Disease and Therapy Neurology Module, 2nd year curriculum
“Stroke,” “Cerebrovascular Malformations,” and “Neurological Emergencies”
1/2016-present Annual lecture, BUSM Surgical Bootcamp 4th year elective, “Perioperative Stroke”

Boston University School of Public Health, Graduate Students (MPH)

- 11/2016-present Annual lecture, Cardiovascular Epidemiology BUSPH EP 751 Course
“Epidemiology of Stroke”

Boston University Framingham Heart Study, Research Assistants

- 5/2017-present Neurology Research Group Teaching Sessions, “Ischemic and Hemorrhagic Stroke”

Boston Medical Center

- 7/2013-present Didactic lectures (3-4/year) for nurses, students, & residents on selected topics:
“Ischemic stroke etiology,” “Genetics of stroke,” “Stroke prevention,” and “Vascular neurology for the Neurology Boards”
2/2014-present Coordinator, weekly Vascular Neurology and Interdisciplinary Case Conference
1/2015-present Coordinator, monthly Vascular Neurology Fellowship Journal Club
3/2015-9/2017 Supervisor, bi-annual Neurology Residents Stroke Simulation Lab Training Program

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7/2015-present Supervisor, weekly Stroke Fellow Clinic

Boston Emergency Medical Services (EMS)

7/2016-present Annual lecture, Boston EMS “Learning Labs”
 “Why ‘Time is Brain’ and Emerging Technologies in Stroke Treatment”

Boston University (BU), Staff, Employees, Patient Support Groups, and Community Outreach

1/2015-present Annual lecture, Health Promotion Series at BU Occupational Health Center
 “Why ‘Time is Brain’: a Primer on Stroke”
 5/2016-present Annual lecture, BU Aphasia Support Group
 “Stroke Prevention Update and Aphasia Recovery Research”
 11/2016-present Faculty Advisor, BUSM Stroke Force
 Medical student volunteer group advocating for public awareness of stroke in the community through presentations to high school students regarding risk factors and signs of stroke, and teaching the necessary actions to take when a stroke occurs

Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA

2/2009-3/2009 Medical Student Teaching Assistant, Brain and Behavior Course, 2nd year curriculum
 12/2012 Small Group Leader, Physical Exam and Differential Diagnosis Course, 1st year course
 2/2013-3/2013 Neurology Resident Teaching Assistant, Brain and Behavior Course, 2nd year curriculum

Teaching Experience and Responsibilities (cont.):

Hospital of the University of Pennsylvania, Philadelphia, PA

7/2011-6/2013 Coordinator, monthly Department of Neurology Morbidity and Mortality Conference

Mentoring Activities:

Boston University School of Medicine (BUSM)/Boston Medical Center (BMC)

Mentee Name	Dates	Mentee Position	Project/Product	Current Position
Chantale Branson, MD	7/2014-present	Neurology resident, BMC	AAN Safety and Quality Award: “Improving stroke care through a resident clinical handbook”	BU/BMC Sleep Neurology Fellow
Shefali Dujari, MD	6/2015-present	Medical student, BUSM	Abstract: Language barriers and disparities in acute stroke care ⁵	Stanford Neurology Resident, PGY2
Teng Peng	2/2016-present	Medical student, BUSM	Manuscript: Hyperglycemia and intracerebral hemorrhage expansion	Yale Neurology Resident, PGY1
Ariel Marks, MD	1/2017-present	Neurology resident, BMC	Manuscript: Computerized classification of stroke in the Framingham Heart Study	Neurology resident, PGY3
Mekala Raman, PhD	1/2017-present	Postdoctoral Fellow, BUSM	Manuscript: Language barriers and disparities in acute stroke care ⁵	Cardiovascular T32 Fellow, BUSM

Major Administrative Responsibilities:

6/2016-present MA Department of Public Health/CDC Paul Coverdell Stroke Program, Pilot Project **Physician lead**; tasked to develop best practices and quality improvement for ‘Stroke Systems of Care’, collaborating with Boston Emergency Medical Services, the BMC Emergency Department, rehabilitation & nursing facilities, and visiting nurse programs to improve the continuum of comprehensive stroke care in Massachusetts; 5 hospitals included in pilot program, findings to be disseminated statewide

Clinical Responsibilities:

Boston Medical Center, Boston, MA

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2015-2017 Stroke Service inpatient and consult attending, 8-11 weeks per year
2015-2017 Stroke and Vascular Neurology Fellows clinic, 1 session per week
Preceptor for two stroke fellows each year

Volunteer Experience:

7/2009-6/2013 Staff, [Puentes de Salud](#) community health non-profit organization, Philadelphia, PA
Neurology outpatient clinic, 1 session monthly at migrant health care clinic
Supervised volunteer medical students from local universities (Penn, Temple, etc.)

Other Professional Activities:

Professional Societies: Memberships, Offices, and Committee Assignments

American Heart Association/American Stroke Association

7/2010-present Member
3/2014-present Stroke Council
6/2016-present Member, Stroke Minority Affairs Committee
1/2017-present Member, Stroke Statistics Committee, Council of Epidemiology and Prevention

American Academy of Neurology

7/2009-present Member
3/2014-present Stroke and Vascular Neurology Section

Other

7/2013-present Member, Massachusetts Neurological Association
7/2013-present Member, Massachusetts Medical Society
6/2015-present Member, Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE)
1/2016-present Member, International Stroke Genetics Consortium (ISGC)
5/2017-present Member, MarkVCID Consortium – Imaging and Fluid Based Biomarkers Subcommittees

Ad Hoc Reviewing:

10/2016-present Reviewer, *Neurology*
5/2017-present Reviewer, *Neuroepidemiology*
9/2017-present Reviewer, *PLOS ONE*

Other Support:

Current:

7/2017-present AHA-Bayer, PI: John Cole, AHA Institute for Precision Cardiovascular Medicine
Innovation and Discovery Grant: “Cerebral Small Vessel Disease.” Total Amount: TBD
Role: **Co-Investigator**

Past:

2/2015-12/2016 AHA 15GPSPG23770000, PI: John Cole, AHA CVGPS Pathway Grant: “Early-Onset Stroke: an Extreme Phenotype to Identify Rare Variants in Ischemic Stroke.” Total Amount: \$10,421 (year 1)
Role: **Fellow**

7/2014-4/2016 NIH 5T32AG036697-05, PI: Neil W. Kowall, BU ADC Translational Research Training T32 Postdoctoral Program. Total Amount: \$51,096 (year 1), \$45,180 (year 2, 10 months)
Role: **Post-Doctoral Trainee**

10/2007-1/2008 NIH 5T35-AI065385-02, PI: Robert Gilman, Training Grant in Infectious and Tropical Diseases. Total Amount: \$8,500

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Role: **Pre-Doctoral Trainee**

Other Research or Pilot Projects:

Current:

- 6/2016-present Boston University Clinical & Translational Science Institute Pilot Project, PI: Asim Z. Mian, Use of Normal Saline as a Perfusion Contrast Agent in MRI.
Role: **Co-Investigator**
- 11/2016-present Boston Medical Center Patient Safety Grant, PI: Lauren Nentwich, PASS – Priority Access for Severe Strokes. Total Amount: \$5,000 (year 1)
Role: **Co-Investigator**

Invited Lectures and Conference Presentations:

Institutional:

Boston University/Boston Medical Center Clinical Neuroscience Grand Rounds, Boston, MA

1. January 25, 2016 “Obesity Paradox in Stroke Survivors”
2. January 6, 2015 “Quality Improvement: Sleep Apnea Screening in Stroke Inpatients”
3. April 22, 2014 “Disparities in Acute Stroke Care”

Hospital of the University of Pennsylvania Department of Neurology Grand Rounds, Philadelphia, PA

4. May 9, 2013 Racial disparities in Acute Stroke Care: Access to Primary Stroke Centers and Trends in rt-PA Utilization
5. December 1, 2011 Adult Onset Adrenoleukodystrophy Diagnosed by VLCFA Analyses from the ED

National:

American Heart Association International Stroke Conference Annual Meeting

1. February 17, 2016 “Lifestyle Factors and Risk of Stroke: Understanding Biology through Refined Phenotyping and Genetics”, Los Angeles, CA [Invited Junior Investigator Proposal Presentation]

International:

Boston University and University of Bordeaux Neuroepiomics Annual Summer Course

1. September 25, 2016 “Introduction to Phenotyping of Stroke & Dementia,” Boston, MA [Invited Lecture]

Bibliography:

ORCID:  [0000-0001-8584-1455](https://orcid.org/0000-0001-8584-1455)

[My NCBI bibliography](#)

Original, Peer Reviewed Articles:¹

1. Pase MP, Himali JJ, Grima NA, Beiser AS, Satizabal CL, **Aparicio HJ**, Thomas RJ, Gottlieb DJ, Auerbach SH, Seshadri S. Sleep architecture and the risk of incident dementia in the community. *Neurology*. 2017 Aug 23 [Epub ahead of print]. PMID: 28835407
2. **Aparicio HJ**, Petrea RE, Massaro JM, Manning WJ, Oyama-Manabe N, Beiser AS, Kase CS, D'Agostino RB, Wolf PA, Vasani RS, DeCarli C, O'Donnell CJ, Seshadri S. Association of descending thoracic aortic plaque with brain atrophy and white matter hyperintensities: The Framingham Heart Study. *Atherosclerosis*. 2017 Jun 23 [Epub ahead of print]. PMID: 28673480.
3. **Aparicio HJ**, Himali JJ, Beiser AS, Davis-Plourde KL, Vasani RS, Kase CS, Wolf P and Seshadri S. “Overweight, Obesity, and Survival after Stroke in the Framingham Heart Study.” *J Am Heart Assoc*. 2017;6. PMID: 28647687.

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- Salinas J, Beiser A, Himali JJ, Satizabal CL, **Aparicio HJ**, Weinstein G, Mateen FJ, Berkman LF, Rosand J and Seshadri S. Associations between social relationship measures, serum brain-derived neurotrophic factor, and risk of stroke and dementia. *Alzheimers Dement (N Y)*. 2017;3:229-237.
- Pase MP, Himali JJ, Beiser AS, **Aparicio HJ**, Satizabal CL, Vasani RS, Seshadri S and Jacques PF. Sugar- and Artificially Sweetened Beverages and the Risks of Incident Stroke and Dementia: A Prospective Cohort Study. *Stroke*. 2017 May; 48(5):1139-1146. PMID: 28428346.
- Pase MP, Himali JJ, Jacques PF, DeCarli C, Satizabal CL, **Aparicio H**, Vasani RS, Beiser AS, Seshadri S. Sugary beverage intake and preclinical Alzheimer's disease in the community. *Alzheimers Dement*. 2017 Mar 06. PMID: 28274718.
- Dufouil C, Beiser A, McLure LA, Wolf PA, Tzourio C, Howard VJ, Westwood AJ, Himali JJ, Sullivan L, **Aparicio HJ**, Kelly-Hayes M, Ritchie K, Kase CS, Pikula A, Romero JR, D'Agostino RB, Samieri C, Vasani RS, Chêne G, Howard G, Seshadri S. Revised Framingham Stroke Risk Profile to Reflect Temporal Trends. *Circulation*. 2017 Mar 21;135(12):1145-1159. PMID: 28159800.
- Lubitz SA, Yin X, McManus DD, Weng LC, **Aparicio HJ**, Walkey AJ, Rafael Romero J, Kase CS, Ellinor PT, Wolf PA, Seshadri S and Benjamin EJ. Stroke as the Initial Manifestation of Atrial Fibrillation: The Framingham Heart Study. *Stroke*. 2017;48:490-492. PMID: 28082669.
- Lioutas VA, Beiser A, Himali J, **Aparicio H**, Romero JR, DeCarli C and Seshadri S. Lacunar Infarcts and Intracerebral Hemorrhage Differences: A Nested Case-Control Analysis in the FHS (Framingham Heart Study). *Stroke*. 2017;48:486-489. PMID: 28008091.
- Pase MP, Beiser A, Enserro D, Xanthakis V, **Aparicio H**, Satizabal CL, Himali JJ, Kase CS, Vasani RS, DeCarli C and Seshadri S. Association of Ideal Cardiovascular Health With Vascular Brain Injury and Incident Dementia. *Stroke*. 2016;47:1201-6. PMID: 27073239.
- Neurology Working Group of the Cohorts for Heart and Aging Research in Genomic Epidemiology (**CHARGE**) Consortium; Stroke Genetics Network (SiGN); International Stroke Genetics Consortium (ISGC). Identification of additional risk loci for stroke and small vessel disease: a meta-analysis of genome-wide association studies. *The Lancet Neurology*. 2016;15:695-707. PMID: 27068588
- Pase MP, Beiser A, **Aparicio H**, DeCarli C, Vasani RS, Murabito J and Seshadri S. Interarm differences in systolic blood pressure and the risk of dementia and subclinical brain injury. *Alzheimers Dement*. 2016;12:438-45. PMID: 26542262.
- Aparicio HJ**, Carr BG, Kasner SE, Kallan MJ, Albright KC, Kleindorfer DO and Mullen MT. Racial Disparities in Intravenous Recombinant Tissue Plasminogen Activator Use Persist at Primary Stroke Centers. *J Am Heart Assoc*. 2015;4. PMID: 26467999.
- Bern C, Verastegui M, Gilman RH, Lafuente C, Galdos-Cardenas G, Calderon M, Pacori J, Del Carmen Abastoflor M, **Aparicio H**, Brady MF, Ferrufino L, Angulo N, Marcus S, Sterling C and Maguire JH. Congenital *Trypanosoma cruzi* transmission in Santa Cruz, Bolivia. *Clin Infect Dis*. 2009;49:1667-74. PMID: 19877966

Case Reports, Reviews, Chapters, and Editorials:

Editorials:

- Aparicio HJ**, Seshadri S. Heart of the Matter. *Stroke*. 2015;46:1755-6. PMID: 26022635.
- Eisen A, Cimino A, **Aparicio H**, Marsteller P, Kushner H. Race and Science. *College Teaching* 51:46, 2003.

Textbook Chapters:

- Aparicio HJ**, Seshadri S. "Familial Occurrence and Heritability of Stroke." In: *Stroke Genetics*, 2nd Edition. Eds. Sharma P, Meschia JF. Springer International Publishing 2017.
- Loomis C, **Aparicio H**, Price R. "Neurology." In: *Hitchhiker's Guide to Internal Medicine*, Ed. A. Qasim. Oxford University Press 2010.

Published Abstracts:

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1. **Aparicio HJ**, Himali JJ, Pase M, Satizabal C, Plourde-Davis K, Boulanger C, Amabile N, Cheng S, Larson M, DeCarli C, Vasan R, Wang T, Beiser AS and Seshadri S. Circulating Microparticles are Associated with Visuospatial Ability in the Framingham Heart Study (P1.257). *Neurology*. 2017;88.
2. **Aparicio HJ**, Himali JJ, Beiser AS, Huq M, Cole JW, and Seshadri S. Use of the Computerized Causative Classification System for Ischemic Stroke in the population-based Framingham Study (S321). *Annals of Neurology*. 2016;80(s20).
3. **Aparicio HJ**, Beiser A, Himali J, Satizabal C, Pase M, Romero J, Kase C and Seshadri S. Temporal Trends in Stroke Incidence in the Young in the Framingham Study (I2.003). *Neurology*. 2016;86.
4. **Aparicio HJ**, Sturzoiu T, Lau HW, Clark J, Grimes J, Masoud HE, Nguyen TN, Auerbach SH and Pyatkevich YG. Abstract 41: Stroke Unit Evaluation of Sleep Apnea: Validity of Screening Tools and Use of a Portable Sleep Study. *Stroke*. 2016;47:A41.
5. **Dujari S**, Lau H, Clark J, Nguyen T, Babikian V, Kase C, Romero J and **Aparicio HJ**. The Effect of Language Barriers on Door-to-Needle Times for IV Thrombolysis Administration in Acute Stroke Patients (P1.266). *Neurology*. 2016;86.

Media Appearances:

Print/Digital

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|-----------------|---|
| July 14, 2017 | <i>Neurology Reviews</i> , interview, “The relationship between overweight status and survival after stroke” |
| June 29, 2017 | <i>Science Daily</i> , “Does carrying extra weight offer better survival following a stroke?” |
| April 6, 2017 | <i>Neurology Today</i> , expert comment, “Nearly 10 Percent of Strokes Are Misdiagnosed (At Least Initially) in the Emergency Department” |
| August 10, 2016 | <i>U.S. News & World Report – Health</i> , interview, “10 Commandments to Reduce Your Risk of Stroke” |