

# Curriculum Vitae and Bibliography

## Eoin P Flanagan, MBBCh

### 1. Personal Information

Place of Birth: Dublin, Ireland  
Citizenship: Ireland

### 2. Present Academic Rank and Position

**Associate Professor of Neurology** - Mayo Clinic College of Medicine and Science 04/2018 - Present  
**Consultant** - Department of Neurology, Mayo Clinic, Rochester, Minnesota 06/2018 - Present  
**Consultant (Joint Appointment)** - Division of Clinical Biochemistry & Immunology, Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, Minnesota 06/2018 - Present

### 3. Education

University College Dublin Medical School, Ireland - MB BCh/BAO 1999 - 2005  
Mater and St. Vincent's Hospital, Dublin, Ireland - Residency, Internal Medicine  
General Professional Training 2005 - 2008  
Membership of the Royal College of Physicians of Ireland, Dublin, Ireland - Residency, Internal Medicine 2008  
Mayo Clinic Graduate Education, Rochester, Minnesota - Residency, Neurology 2008 - 2012  
Mayo Clinic Graduate Education, Rochester, MN - Fellow, Multiple Sclerosis, Department of Neurology 2012 - 2013  
Mayo Graduate School, Mayo Clinic College of Medicine, Rochester, Minnesota—Masters in Clinical and Translational Science 01/2013 - 05/2016  
Mayo Clinic Graduate Education, Rochester, MN - Fellow, Autoimmune, Department of Neurology 2013 - 2014  
RST BEHAVIORAL NEUROLOGY, Programs in Rochester, Mayo School of Graduate Medical Education, Mayo Clinic College of Medicine, Rochester, Minnesota - Fellow 06/2014 - 06/2015  
Mayo Clinic Graduate Education, Rochester, MN, Minnesota - Fellow, Behavioral Neurology, Department of Neurology 2014 - 2015

## 4. Certification

### Board Certifications

#### American Board of Psychiatry and Neurology (ABPN)

Neurology 2012 - Present

#### Educational Commission for Foreign Medical Graduates (ECFMG)

ECFMG 2006 - Present

#### National Institutes of Health (NIH)

NIH Stroke Scale Certification 2011 - Present

#### Royal College of Physicians and Surgeons in Ireland

MRCP 2008 - Present

#### Mayo Clinic Quality Academy

Mayo Clinic Quality Fellow: Bronze Level Certification 2011

Mayo Clinic Quality Fellow: Silver Level Certification 2012

## 5. Licensure

Ireland (Medical) 07/2005 - Present

Minnesota 52991 (Medical) 01/2010 - Present

## 6. Honors and Awards

<b>Video Olympics</b> - 12th International Congress of Parkinson's Disease and Movement Disorders, Chicago, Illinois Selected from Ireland for 'Video Olympics' session at the 12th International Congress of Parkinson's Disease and Movement Disorders	2008
<b>Selection of poster for behavioral neurology special interest group at 134th ANA annual meeting</b> - American Neurological Association, Baltimore, Maryland	2009
<b>Travel award for 134th American Neurological Association annual meeting</b> - American Neurological Association, Baltimore, Maryland	2009
<b>Selection of poster for neuroimmunology/multiple sclerosis special interest group at 135th ANA annual meeting</b> - American Neurological Association, San Francisco, California	2010
<b>NRADCOM major award.</b> - NRADCOM major award, Rochester, Minnesota "NRADCOM major award" for coming top of the leader board amongst residents and fellows following the 12 monthly neuroradiology diagnostic quizzes in 2011.	2011
<b>Mayo Brothers Distinguished Fellow Award</b> - Mayo Graduate School of Medical Education, Rochester, Minnesota	2012
<b>Mayo Clinic Neurology Woltman</b> - Department of Neurology, Mayo Graduate School of Medicine, Mayo Clinic College of Medicine, Rochester, Minnesota	2012
<b>Annual Meeting Resident/Fellow Scholar</b> - Consortium of Multiple Sclerosis Centers, Hackensack, New Jersey	2013
<b>Department of Neurology Annual Clinical Research Award</b> - Department of Neurology, Mayo Graduate School of Medicine, Mayo Clinic College of Medicine, Rochester, Minnesota	2013
<b>Selected for Eighth Annual MASTER MS Fellowship Program</b> - Consortium of Multiple Sclerosis Centers, Hackensack, New Jersey	2013
<b>Travel award</b> - American Neurological Association, American Medical Association, Mount Laurel, New Jersey	2015
<b>Selection of my platform presentation, "Short myelitis lesions in aquaporin-4-IgG-positive neuromyelitis optica spectrum," for the MS highlights in the field at the 67th American Academy of Neurology annual meeting</b> - American Academy of Neurology, Washington, D.C., District of Columbia	2015
<b>Travel award for 140th American Neurological Association annual meeting</b> - American Neurological Association, Chicago, Illinois	2015
<b>Educational Grant to attend the Americas Committee for Treatment and Research in Multiple Sclerosis (ACTRIMS) Forum</b> - Americas Committee for Treatment and Research in Multiple Sclerosis	2016
<b>Teacher of the Year</b> - Teacher of the Year by the Mayo Fellows' Association, Mayo Clinic; Rochester, Minnesota	06/2017 - Present
<b>A.B. Baker Teacher Recognition Award</b> - American Academy of Neurology, Minneapolis, MN, Minnesota	04/2018 - Present

## 7. Previous Professional Positions and Major Appointments

<b>Assistant Professor of Neurology</b> - Mayo Clinic College of Medicine and Science	12/2011 - 03/2018
<b>Senior Associate Consultant</b> - Department of Neurology, Mayo Clinic, Rochester, Minnesota	06/2015 - 06/2018
<b>Senior Associate Consultant (Joint Appointment)</b> - Division of Clinical Biochemistry & Immunology, Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, Minnesota	12/2015 - 06/2018

## 8. Service

### Military

### Community Memberships and Services

## 9. Professional Memberships and Societies

### Professional Memberships and Services

American Academy of Neurology Member	2008 - Present
American Medical Association American Neurological Association Member	2015 - Present
International Primary CNS Lymphoma Collaborative Group Member	2011 - Present
Neurology Research Committee at Mayo Clinic Member	2011 - Present
Neurosarcoidosis Interest Group Member	2016 - Present
Royal College of Physicians in Ireland Member	2008 - Present

**Journal Editorial Responsibilities**

BioMedCentral Neurology Reviewer	2015 - Present
European Journal of Neurology Reviewer	2015 - Present
Expert Review of Neurotherapeutics Reviewer	2015 - Present
JAMA Neurology Reviewer	2016 - Present
Journal of Child Neurology Reviewer	2015 - Present
Journal of Pediatric Neuroradiology Reviewer	2015 - Present
Journal of Stroke and Cerebrovascular Diseases Reviewer	2016 - Present
Journal of the Neurological Sciences Reviewer	2015 - Present
Multiple Sclerosis Journal Reviewer	2016 - Present
Muscle and Nerve Reviewer	2016 - Present
Nature Reviews Neurology, Nature Publishing Group Reviewer	2017 - Present
Neurology Reviewer	2015 - Present
New England Journal of Medicine Reviewer	2016 - Present
The Neurologist Reviewer	2015 - Present

**10. Education Interests and Accomplishments**

**A. Curriculum and Course Development**

Co-organizer of the Behavioral Neurology Lecture Series for Neurology Residents  
 As part of a quality improvement project we analyzed the knowledge gaps in behavioral neurology among neurology residents by surveying residents initially. We then began a behavioral neurology resident lecture series and performed lectures on three topics residents were felt to be deficient in: 1) rapidly progressive dementia; 2) Dementia with Lewy Bodies; and 3) Young onset Alzheimer's disease

**Curriculum/Course Development**

Involved in 2011 annual appraisal of neurology residency program at Mayo Clinic. Helped co-ordinate weekly neurology morning report. Organized subsection on case vignettes at Multiple Sclerosis 2013; Update and practical management strategies. Mayo Clinic, Scottsdale, AZ  
 Scottsdale, AZ, United States of America

Course Director 2019 Multiple Sclerosis & Autoimmune Neurology Update Phoenix, Arizona	02/2019 - 02/2019
Education Program Director Autoimmune Neurology II Advanced: Autoimmune Encephalitis at the Frontiers of Neuroscience American Academy of Neurology 71st Meeting Philadelphia, Pennsylvania	05/2019
Education Program Director Diagnostic Pearls in Myelitis: A Case-Based Approach American Academy of Neurology 71st Annual Meeting Philadelphia, Pennsylvania	05/2019

**B. Teaching**

Immunotherapy responsive dementias and encephalopathies Friday neurology subspecialty conference Continuous Medical Education Lecture	03/05/2010
POLG mitochondrial disorders Case presentation and discussion Child neurology case conference	05/26/2010
Riluzole and amyotrophic lateral sclerosis Neurology Journal Club	07/13/2010
Paraneoplastic autoimmune myelopathies Continuous Medical Education Lecture Friday neurology subspecialty conference	11/05/2010
Pituitary apoplexy case presentation and discussion Resident Case conference	01/18/2011
Frontotemporal dementia and amyotrophic lateral sclerosis case presentation and journal article review Clinical Neurophysiology Conference	01/21/2011
Sensory neuronopathy in Sjogren's syndrome Case presentation and journal article review Clinical Neurophysiology Conference	03/12/2011

"Brain Drain" Case discussion and update on cerebral venous sinus thrombosis Tuesday Hospital Conference	07/05/2011
Subdural Empyema Case presentation and discussion Morning Report	07/08/2011
Thunderclap Headaches Case presentation and discussion Morning Report	07/15/2011
"It's not all in your head" Case presentation and discussion of Von Hippel Lindau disease Tuesday Hospital Conference	11/01/2011
Adult Onset Autosomal Dominant Leukoencephalopathy Case of the Week	02/22/2012
"A shocking and arresting episode" Case presentation and discussion of a patient with hypoxic-ischemic brain injury after TASER intervention and a review of TASER-associated neurological complications Tuesday Hospital Conference	03/06/2012
Tumefactive Multiple Sclerosis Clinicopathological Conference (CPC) Neurology Grand Rounds	04/09/2012
Primary Intramedullary Spinal Cord Lymphoma Residency Research Project Neurology Grand Rounds	06/18/2012
Multiple Sclerosis 2013; Update and practical management strategies Platform presentation Case Vignettes Mayo Clinic Scottsdale, AZ 2013	2013
Update on oral MS disease modifying treatments Continuous Medical Education Lecture Neurology Subspecialty Conference	02/01/2013
"Myelopathies: Autoimmune and other mimickers of MS" Platform Presentation Consortium of Multiple Sclerosis Centers, Indianapolis, IN 2014	2014
Owl Eyes and Pancakes; MRI Pearls for Myelopathy Continuous Medical Education Lecture Neurology Friday Subspecialty Conference	01/31/2014
Myelitis in NMO: The Long and the Short of It Continuous Medical Education Lecture Neurology Friday Subspecialty Conference	06/13/2014
Improving the Diagnostic Precision in myelopathies of uncertain etiology Continuous Medical Education Lecture Neurology Grand Rounds	12/02/2014
Multiple Sclerosis 2015; Update and practical management strategies Platform Presentation Mayo Clinic Scottsdale, AZ 2015	2015
Clinical Pearls in Autoimmune Encephalopathy and Dementia Continuous Medical Education Lecture Neurology Friday Subspecialty Conference	01/09/2015

Rapidly Progressive Dementia Behavioral Neurology Lecture Series	03/26/2015
Multiple Sclerosis and Neuromyelitis Optica Platform Presentation Multiple Sclerosis 2015 Scottsdale, Arizona	2015
Long Myelitis; Enhancing the Differential Diagnosis Continuous Medical Education Lecture Friday Subspecialty Neurology Conference	01/22/2016
Using MRI to enhance the diagnostic precision in myelitis Lecture to Neuroimmunology Staff	06/01/2016
Neurology and Neuroimmunology Concepts Overview Lecture to Clinical Service Representatives for Neurology from the Mayo Medical laboratories	07/18/2016
Racial Disparity and Rings in NMOSD: Co-Incidence, a Circular Argument or the Answer is Not Black and White Continuous Medical Education Lecture Neurology Friday Subspecialty Conference Rochester, MN	11/04/2016
Difficult Diagnostic Challenges Multiple Sclerosis and Autoimmune Neurology Scottsdale, Arizona	2017
Dementia for the general internist Continuous Medical Education Lecture Internal Medicine Noon Conference Rochester, MN	01/11/2017
Updates in Multiple Sclerosis Treatments for the Primary Care Physician Continuous Medical Education Lecture Primary Care Internal Medicine Tuesday AM Conference Rochester, Minnesota	06/27/2017

**C: Academy of Educational Excellence**



**D. Mentorship**

<b>Individual and Position</b>	<b>Timeframe</b>	<b>Outcomes</b>	<b>Current Status</b>
Guerra, Hilda Research Mentee	1/2015 - Present	1 Publication, 1 poster presentation at an international neurology meeting	Neurology Resident Mayo Clinic
Conway, Brittany Neurology Fellow	7/2015 - 7/2016	1 Publication	Neurology Fellow Mayo Clinic
Dubey, Div Neurology Fellow	7/2016 - Present	4 Publications of which I am co-author (one as corresponding author), 1 poster presentation at an international neurology meeting that I supervised	Neurology Fellow Mayo Clinic
Inbarasu, Jery Neurology Resident	7/2016 - Present		Neurology Resident Mayo Clinic
Parks, Natalie Neurology Fellow	7/2016 - Present	1 publication (in press), 1 submitted for publication and 2 poster presentations at a national and international meeting	Neurology Fellow Mayo Clinic
Zalewski, Nicholas Research Mentee	7/2016 - Present	2 Publications, 2 papers currently under review, 2 posters at international neurology meetings.	Neurology Resident Mayo Clinic

**E. Academic Career Development**

Mentor Training Program  
Four sessions 1.5 hours each of teaching you how to become a mentor  
Mayo Clinic  
Mayo Clinic; Rochester, Minnesota

05/2017 - 07/2017

**F. Educational Activities****11. Institutional/Departmental Administrative Responsibilities, Committee Memberships and Other Activities**

**Mayo Clinic**

## Mayo Clinic Committees

## Neurology Research Committee

Member

2011 - Present

Administrative Responsibilities: Assessing and reviewing research proposals and helping co-ordinate research activities at departmental level

## Neurology Residency Recruitment Committee

Member

2016 - Present

**Mayo Clinic in Rochester**

## Department of Neurology

## Neurology Summer Scientific Session

Co-organizer

2011

Annual dinner outing and comedy for Department of Neurology

Director

2011

Directed 20 minute comedy movie called "Code Tromner" about a crime scene investigation (CSI) into a missing reflex hammer in the Department of Neurology for viewing at the Neurology Summer Scientific Session.

**12. Presentations Extramural****National or International**

Neurophobia

2007 - 2017

Platform presentation

43rd Annual Irish Neurology Association Meeting

Belfast, Northern Ireland

**Invited**

NMO/SD Epidemiology for Clinical Trials

09/13/2016

Invited speaker (unable to attend due to birth of son)

3rd NMO Roundtable Symposium at 32nd Annual Meeting of European Committee for Treatment and Research Multiple Sclerosis (ECTRIMS) annual meeting

London, England, United Kingdom

A population-based assessment of 'no evident disease activity' (NEDA) in multiple sclerosis

2017

Poster presentation (last author)

7th Joint Congress of the European and American Committee for treatment and research in multiple sclerosis (ECTRIMS-ACTRIMS)

Paris, France

Autoimmune Dementia

2017

Invited speaker (unable to attend)

Atypical Dementias for diagnosis to emerging therapies

Triest, Italy

Motor Progression from a Single Critically Located Demyelinating Lesion in

2017

Paucisclerotic MS

Poster presentation

7th Joint Congress of the European and American Committee for Treatment and Research in Multiple Sclerosis (ECTRIMS-ACTRIMS)

Paris, Kentucky

CNS Toxicities and Syndromes Invited Speaker American Academy of Neurology 69th Annual Meeting, April 22 to April 28, 2017 in Boston, MA. Boston, Massachusetts	04/22/2017 - 04/28/2017
Differential diagnosis of longitudinally extensive myelitis Invited Platform Presentation International Conference on Spinal Cord Involvement and Imaging in Multiple Sclerosis and Neuromyelitis Optica Berlin, Germany	05/18/2017 - 05/20/2017
Approach to Diagnosis of Autoimmune/Inflammatory Spinal Cord Disorders Invited Platform Presentation: TEACHING COURSE: AUTO-IMMUNE DISORDERS II - AUTOIMMUNE NEUROLOGICAL DISORDERS: PART 2 XXIII World Congress of Neurology Kyoto, Japan	09/16/2017 - 09/21/2017
Myelopathies Invited lecture American Academy of Neurology Fall Conference, Neurology Updates Conference Las Vegas, Nevada	10/20/2017 - 10/22/2017
Mechanism and spectrum of GFAP antibody-associated encephalomyelitis Invited (unable to attend) 10th Congress of the Pan-Asian Committee for Treatment and Research in Multiple Sclerosis (PACTRIMS) Ho Chi Minh City, Vietnam	11/23/2017 - 11/25/2017
<b>Oral</b>	
Specificity of glial fibrillary acidic protein IgG autoantibody (GFAP-IgG) for Autoimmune Meningoencephalomyelitis Diagnosis Platform presentation, presenter American Academy of Neurology 69th Annual Meeting Boston, Massachusetts	04/22/2017 - 04/28/2017
Imaging Features of Neuroinflammatory Disorders of the Spinal Cord 143rd Annual Meeting of the American Neurological Association	10/21/2018
Encephalomyelitis with Myelin Oligodendrocyte Glycoprotein (MOG) and Glial Fibrillary Acid Protein (GFAP) Antibodies 143rd Annual Meeting of the American Neurological Association	10/22/2018
Characteristics of Spontaneous Spinal Cord Infarction and Proposed Diagnostic Criteria Platform presentation American Academy of Neurology 71st Annual Meeting Philadelphia, Pennsylvania	05/05/2019
Myelin Oligodendrocyte Glycoprotein Autoantibody Myelitis; Clinical characteristics, MRI clues and discriminators from other demyelinating myelitis etiologies Platform presentation American Academy of Neurology 71st Annual Meeting Philadelphia, Pennsylvania	05/06/2019
Diagnostic Approach to Autoimmune Encephalitis American Academy of Neurology 71st Annual Meeting Philadelphia, Pennsylvania	05/07/2019

**Poster**

- Area postrema syndrome more specific than extension of lesion on MRI for  
Neuromyelitis Optica Spectrum Disorder 04/22/2017 -  
04/28/2017  
Poster Presentation, supervising author  
American Academy of Neurology 69th Annual Meeting, April 22 to April 28, 2017  
in Boston, MA.  
Boston, Massachusetts
- Defining Area Postrema (AP) Attacks in Autoimmune AQP4  
Channelopathies/Neuromyelitis Optica Spectrum Disorders (NMOSD) 04/22/2017 -  
04/28/2017  
Co-author on poster  
American Academy of Neurology 69th Annual Meeting  
Boston, Massachusetts
- Elsberg syndrome: A rarely recognized cause of cauda equina syndrome and  
lower thoracic myelitis 04/22/2017 -  
04/28/2017  
Poster presentation, co-author  
American Academy of Neurology 69th Annual Meeting  
Boston, Massachusetts
- Creutzfeldt-Jakob Disease Masquerading as Autoimmune Encephalitis 05/06/2019  
American Academy of Neurology 71st Annual Meeting  
Philadelphia, Pennsylvania

**Regional****Invited**

- Improving the Diagnostic Precision in Myelitis 02/24/2017  
Invited lecturer (1-day workshop sponsored by Biogen)  
Diagnoses ad curationes. Neuroimmunological disorders and therapeutics in 2017  
Dublin, Ireland
- Clinical Approach to Autoimmune Encephalopathy 10/26/2018  
Hosted by Saint Luke's Marion Bloch Neuroscience Institute and Saint Luke's  
Health System and Institute for International Medicine (INMED)  
6th Annual Advances in Neuroscience Symposium  
Kansas City, Missouri

**Oral**

- Difficult Diagnostic Challenges 02/10/2017 -  
02/11/2017  
Mayo Clinic CME course  
Multiple Sclerosis & Autoimmune Neurology  
Scottsdale, Arizona
- MS: Mimics-Red Flags, Differential Diagnosis 07/20/2018  
Neurology in Clinical Practice  
Chicago, Illinois
- Frequency of aquaporin-4-IgG among longitudinally extensive transverse myelitis  
with antiphospholipid antibodies 09/11/2018  
Mayo Clinic Education, Research, & Innovation Platform - Autoimmune Disorders  
Rochester, MN, Minnesota
- Neuro-Rheumatology 09/29/2018  
Rheumatology Association of Minnesota and the Dakotas 2018 Annual Meeting  
(RA-MD 2018)  
Minneapolis, MN, Minnesota
- Imaging Pearls in Autoimmune Myelitis and Its Mimics 02/09/2019  
Multiple Sclerosis and Autoimmune Neurology Update 2019  
Phoenix, Arizona

**Unclassified**

Pacing the Diaphragm; An Unusual Movement Disorder Video Olympics (presented by David Bradley on my behalf) 12th International Congress of Parkinson's Disease and Movement Disorders Chicago, Illinois	2008
Pacing the Diaphragm; An Unusual Movement Disorder Poster presentation Association of British Neurologists Spring Scientific Meeting Dublin, Ireland	2008
Immunotherapy Responsive Dementia or Encephalopathy: Clinical Course and Predictors of Improvement Poster presentation 134th American Neurological Association Annual Meeting Baltimore, Maryland	2009
Immunotherapy Responsive Dementia or Encephalopathy: Clinical Course and Predictors of Improvement Platform presentation 45th Annual Irish Neurology Association Meeting Dublin, Ireland	2009
Paraneoplastic Myelopathy: Characteristics in 25 Mayo Clinic Cases Poster presentation 135th American Neurological Association Annual Meeting San Francisco, California	2010
Amiodarone-associated Myopathy. A report of 4 cases. Poster presentation 135th American Neurological Association Annual Meeting San Diego, California	2011
Primary Intramedullary Spinal Cord Lymphoma Poster presentation 63rd American Academy of Neurology Annual Meeting Honolulu, Hawaii	2011
Reduced low density lipoprotein cholesterol fraction is not a risk factor for hemorrhagic transformation after intravenous thrombolysis therapy for acute ischemic stroke Poster presentation International Stroke Conference Los Angeles, California	2011
Secondary Intramedullary Spinal Cord Non-Hodgkin's Lymphoma Poster presentation 135th American Neurological Association Annual Meeting San Diego, California	2011
Fluorodeoxyglucose Positron Emission Tomography in Evaluation of Myelopathy Poster presentation 28th Congress of the European Committee for Treatment and Research in Multiple Sclerosis Lyon, France	2012
Presentation, Diagnostics, and Treatment of Primary Leptomeningeal Lymphoma: An International Primary CNS Lymphoma Collaborative Group Series Platform presentation (3rd Author) 10th European Association of Neurooncology Congress Marseille, France	2012

Scintigraphy Pre- and Post-Immunotherapy demonstrates reversal of Autoimmune Gastrointestinal Dysmotility Poster presentation 64th American Academy of Neurology Annual Meeting New Orleans, Louisiana	2012
AB-related Angiitis Presenting as Encephalopathy and Anterior Uveitis Poster presentation (3rd author) 65th American Academy of Neurology Annual Meeting San Diego, California	2013
Adult Onset Autosomal Dominant Leukodystrophy Presenting with REM Sleep Behavior Disorder Poster presentation 65th American Academy of Neurology Annual Meeting San Diego, California	2013
Dementia in MS Complicated by Co-existent Alzheimer Disease: Pre- and Post-Mortem Poster presentation 29th Congress of the European Committee for Treatment and Research in Multiple Sclerosis Copenhagen, Denmark	2013
Fluorodeoxyglucose Positron Emission Tomography Spinal Cord Hypermetabolism Discriminates Neoplastic from Inflammatory Myelopathy Poster Presentation 65th American Academy of Neurology Annual Meeting San Diego, California	2013
Simultaneous PML-IRIS and myelitis in a patient with neuromyelitis optica spectrum disorder Poster presentation 5th Cooperative Meeting of the Americas Committee for Treatment and Research in Multiple Sclerosis (ACTRIMS) and the Consortium of MS Centers (CMSC)	2013
Conjunctival Biopsy to Diagnose Neurosarcoidosis in Patients with Inflammatory Nervous System Disease of Unknown Etiology Poster presentation (2nd author) 67th American Academy of Neurology Annual Meeting Washington D.C., District of Columbia	2014
Gadolinium Enhancement in spondyloitic myelopathy mimicking tumors and inflammation; A case series of 56 patients Platform presentation 66th American Academy of Neurology Annual Meeting Philadelphia, Pennsylvania	2014
Short myelitis lesions in aquaporin-4-IgG-positive Neuromyelitis optica spectrum Platform presentation 67th American Academy of Neurology Annual Meeting Washington D.C., District of Columbia	2015
Discriminating long myelitis of neuromyelitis optica from sarcoidosis Poster Presentation 68th American Academy of Neurology Annual Meeting, Vancouver, Canada Baltimore, MD	2016
Basal Ganglia T1-Hyperintensity in LGI1-Autoantibody-Associated Faciobrachial Dystonic Seizures. Poster presentation 140th American Neurological Association annual meeting	2016

Central canal enhancement and the trident sign in spinal cord sarcoidosis Poster presentation 141st American Neurological Association Annual Meeting	2016
Epidemiology of aquaporin-4 autoimmunity and neuromyelitis optica spectrum Combined poster/platform presentation 68th American Academy of Neurology Annual Meeting	2016
Progressive Multiple Sclerosis Attributable to an Isolated Supratentorial Demyelinating Lesion Poster presentation Americas Committee For treatment and Research in Multiple Sclerosis Annual Meeting	2016
Progressive Solitary Sclerosis: Insidious Motor Impairment Localized to an Isolated CNS Demyelinating Lesion Combined poster/platform presentation (last author) 68th American Academy of Neurology Annual Meeting	2016
Ring-Enhancing Spinal Cord Lesions in Neuromyelitis Optica Spectrum Disorder Poster presentation (last author and corresponding author) 68th American Academy of Neurology Annual Meeting	2016
Case report of autoimmune glial fibrillary acidic protein (GFAP) meningoencephalomyelitis Poster presentation American Committee for Treatment and Research in Multiple Sclerosis (ACTRIMS) Forums 2017 Orlando, Florida	2017
Defining Area Postrema (AP) Attacks in Autoimmune AQP4 Channelopathies/Neuromyelitis Optica Spectrum Disorders (NMOSD) Poster presentation (5th author) 69th American Academy of Neurology Annual Meeting Boston, Massachusetts	2017
Elsberg syndrome: A rarely recognized cause of cauda equine syndrome and lower thoracic myelitis Poster presentation (3rd author) 69th American Academy of Neurology Annual Meeting Boston, Massachusetts	2017
Frequency of Neuromyelitis Optica Spectrum Disorders among Longitudinally extensive transvers myelitis with Antiphospholipid Antibodies Poster presentation (last author) 142nd American Neurological Association Annual Meeting San Diego, California	2017
Specificity of glial fibrillary acidic protein IgG autoantibody (GFAP-IgG) for Autoimmune Meningoencephalomyelitis Diagnosis Platform presentation 69th American Academy of Neurology Annual Meeting Boston, Massachusetts	2017
<b>Invited</b> Myelopathies: Autoimmune and other mimickers of MS Invited speaker Consortium of Multiple Sclerosis Centers 2015 annual meeting	05/28/2015

Autoimmune Encephalopathies Invited speaker (unable to attend due to expecting 2nd child at that time) Texas Neurologic Society's summer conference San Antonio, Texas	07/15/2016 - 07/16/2016
NMO/SD Epidemiology for Clinical Trials Invited Speaker 3rd NMO Roundtable Symposium at ECTRIMS London, England, United Kingdom	09/13/2016
Updates in Myelitis Invited Lecture Leaders in the Field Presentation at the Autoimmune Neurology Session for the 2016 American Neurological Association Annual Meeting Baltimore, MD	10/17/2016

### 13. Visiting Professorship

Mount Sinai Health System Department of Neurology Invited lecturer: Two 1-hour lectures, at Mount Sinai Hospital and Mount Sinai Beth Israel Grand Rounds New York, New York	10/06/2017
SUNY Downstate Medical Center Invitation Grand rounds Brooklyn, New York	01/19/2018
Swedish Neuroscience Institute Department of Neurology Lecture: Clinical Pearls in Autoimmune Encephalopathy Seattle, Washington	11/08/2018
University of Washington Department of Neurology Neurology Grand Rounds Seattle, Washington	11/08/2018
University of Vermont Invited to discuss anti-MOG data Grand Rounds Burlington, Vermont	11/15/2018 - 11/17/2018
Beaumont Hospital Improving the Diagnostic Precision in Myelitis and It's Mimics Dublin Neuroscience Conference Dublin, Ireland	04/05/2019

### 14. Clinical Practice, Interests, and Accomplishments

Neuroimmunology, Multiple Sclerosis, Dementia

### 15. Quality Interests and Accomplishments

### 16. Research Interests and Accomplishments

Neuroimmunology, Multiple Sclerosis, Dementia, Myelitis, Spinal cord sarcoidosis

### 17. Research Grants Awarded

#### Active Grants



**Federal sub award**

Co-Investigator	TREAT MS: A pragmatic trial to evaluate the intermediate-term effects of early, aggressive versus escalation therapy in people with multiple sclerosis. Funded by Patient-Centered Outcomes Research Institute. (MS-1610-37115 PO 2003787269)	09/2018 - 02/2024
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**Industry**

Program Director / Principal Investigator	A Double-masked, Placebo-controlled Study with Open label Period to Evaluate the Efficacy and Safety of MEDI-551 in Adult Subjects with Neuromyelitis Optica and Neuromyelitis Optica Spectrum Disor. Funded by MedImmune, Inc.. (CD-IA-MEDI-551-1155 )	12/2017 - 06/2021
Co-Investigator	Amendment 3: A randomized, double-blind, placebo-controlled multi-center trial to evaluate the safety and efficacy of Eculizumab in patients with relapsing neuromyelitis optica (NMO). Funded by Alexion Pharmaceuticals, Inc.. (ECU-NMO-301)	06/2014 - 05/2017
Co-Investigator	Amendment 1: A Phase III, Open-Label, Extension Trial of ECU-NMO-301 to Evaluate the Safety and Efficacy. Funded by Alexion Pharmaceuticals, Inc.. (ECU-NMO-302)	01/2015 - 12/2018
Co-Investigator	IVIg for Stiff-Person Syndrome: Efficacy of IVIg as a treatment for stiff-person syndrome (SPS) spectrum disorders. Funded by Grifols Therapeutics, Inc.	10/2018 - 09/2021

**Completed Grants****Mayo Clinic**

Co-Program Director / Principal Investigator	Does Positron Emission Tomography Distinguish Inflammatory and Neoplastic Disorders of the Spinal Cord. Funded by Neurology Research Committee	04/2012 - 04/2013
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**18. Patents**

Title	Patent Number	Date Filed	Date Issued
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## 19. Bibliography

### Peer-reviewed Articles

1. **Flanagan E**, Walsh C, Tubridy N. 'Neurophobia' - Attitudes of medical students and doctors in Ireland to neurological teaching. *The European Journal of Neurology*.2007;14:1109-12.
2. Zinchuk AV, **Flanagan EP**, Tubridy NJ, et al. Attitudes of US medical trainees towards neurology education: 'Neurophobia' - a global issue. *BMC Medical Education* Jun 23;. 2010; 10:49.
3. **Flanagan EP**, McKeon A, Lennon VA, Boeve BF, Trenerry MR, Tan KM, Drubach DA, Josephs KA, Britton JW, Mandrekar JN, Lowe V, Parisi JE, Pittock SJ. Autoimmune dementia: clinical course and predictors of immunotherapy response. *Mayo Clin Proc*. 2010 Oct; 85 (10):881-97 PMID: 20884824 PMCID: 2947960 DOI: 10.4065/mcp.2010.0326
4. Kelly JC, Groarke PJ, **Flanagan E**, et al. Foot and ankle surgery - The Achilles heel of medical students and doctors. *The Foot* 8. 2010 Dec.
5. **Flanagan EP**, Caselli RJ. Autoimmune encephalopathy. *Semin Neurol*. 2011 Apr; 31 (2):144-57 Epub 2011 May 17 PMID: 21590620 DOI: 10.1055/s-0031-1277985
6. **Flanagan EP**, McKeon A, Lennon VA, Kearns J, Weinshenker BG, Krecke KN, Matiello M, Keegan BM, Mokri B, Aksamit AJ, Pittock SJ. Paraneoplastic isolated myelopathy: clinical course and neuroimaging clues. *Neurology*. 2011 Jun 14; 76(24):2089-95. PMID: 21670438 DOI: 10.1212/WNL.0b013e31821f468f
7. **Flanagan EP**, Lennon VA, Pittock SJ. Autoimmune myelopathies. *Continuum*.2011 Aug;17:(4):776-99.
8. **Flanagan EP**, O'Neill BP, Porter AB, Lanzino G, Haberman TM, Keegan BM. Primary intramedullary spinal cord lymphoma. *Neurology*. 2011 Aug 23; 77(8):784-91. Epub 2011 Aug 10. PMID: 21832220 DOI: 10.1212/WNL.0b013e31822b00b9
9. **Flanagan EP**, Hunderfund AL, Giannini C, Meissner I. Addition of magnetic resonance imaging to computed tomography and sensitivity to blood in pituitary apoplexy. *Arch Neurol*. 2011 Oct; 68: (10)1336-7. PMID: 21987552 DOI: 10.1001/archneurol.2011.247
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**Stamp Vignettes****Thesis****Ask Mayo Expert Model****Ask Mayo Expert Topic****Book Reviews****Scientific Reports****Miscellaneous****Forthcoming**

\* Indicates that the primary author was a mentee of this author.