

David J. Houghton, MD, MPH
Assistant Professor
Division of Movement Disorders
Department of Neurology, University of Louisville

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Education

August, 1991 – May, 1995	BS	Wake Forest University (Biology) Winston Salem, North Carolina
August, 1996 – May, 1998	MPH	Emory University, RSPH (Epidemiology) Atlanta, Georgia
August, 1998 – May, 2002	MD	Medical College of Georgia (Medicine) Augusta, Georgia

Academic Appointments/Postgraduate Training

July, 2002 – June, 2003	Intern in Internal Medicine Hospital of the University of Pennsylvania Philadelphia, Pennsylvania
July, 2003 – June, 2006	Resident in Neurology Hospital of the University of Pennsylvania Philadelphia, Pennsylvania
July, 2006 – June, 2007	Fellow in Movement Disorders Pennsylvania Hospital Philadelphia, Pennsylvania
July, 2007 - present	Assistant Professor Department of Neurology University of Louisville Louisville, Kentucky
January, 2009 – present	Assistant Residency Program Director Department of Neurology University of Louisville Louisville, Kentucky

Other Positions and Employment

1996-1998	Research Assistant, Maternal and Child Health Centers for Disease Control (CDC), Atlanta, GA
1997	Workshop facilitator, “Teaching Epidemiology to Elementary and Middle Schools (TEEMS)” Governor’s Honors Program, Georgia
1997	Workshop facilitator, “Use of Epidemiology for the

	Management of Health Service”, United Nations Relief and Works Agency (UNRWA), Amman, Jordan
1998	Workshop facilitator, “Use of Maternal and Perinatal Surveillance in the Management of Safe Motherhood Programs”, Republic of Yemen
1998	Temporary Advisor to the World Health Organization
2000	Research Assistant, Department of Nutrition, MCG
2001	Research Elective in stroke/sickle cell disease Mentor: Dr. Robert Adams, MCG
2006 – 2007	Neurologist, Holy Spirit Hospital, Camp Hill, PA
2007 – present	Investigator, Kentucky Neuroscience Research
2009 – present	Paid Consultant, Boehringer Ingelheim

Board Certification and Licensure

Medical License (Commonwealth of Kentucky): #41510, active
 Medical License (Commonwealth of Pennsylvania): inactive
 DEA License (National): active
 American Board of Neurology and Psychiatry (ABPN) Diplomate, May 11, 2008
 Unified Parkinson’s Disease Rating Scale (UPDRS), certification (2007 – present)

Professional Memberships and Activities

American Medical Association
 American Academy of Neurology
 Movement Disorders Society
 Parkinson’s Study Group

Honors and Awards

1993	Alpha Epsilon Delta (National Pre-Medical Honor Society)
1993	CDC Government Special Act/Service Award
1994	AGA Student Research Fellowship Award
1995	CDC Government Special Act/Service Award
1998	CDC Honor Award in Research for Epidemiology
1998	National Public Health Honor Society inductee
2004	Nurse’s Award for Top Junior Neurology Resident, HUP
2006	Nurse’s Award for Top Senior Neurology Resident, HUP
2006	Arthur Asbury Resident Award, Clinical Excellence, HUP

Committee Assignments and Administrative Services

2006-2007	Appointed Member, Morbidity and Mortality Committee, Philadelphia Department of Behavioral Health
2007	Pilot Coordinator, WE MOVE Core Curriculum in Movement Disorders, online teaching modules
2008	Advisory Board, Huntington’s Disease Society of America Louisville Chapter

2008 Thesis Committee, Department of Anatomical Sciences and Neurobiology. “The neuropsychiatric aspects of multiple systems atrophy”. Mentee: Tiffany Reid

Journal Editorial Boards, Advisory Councils, Peer Reviewer, Board Memberships

2007 Peer reviewer (with I. Litvan) – NEJM
2007 Peer reviewer (with I. Litvan) – Journal of Neurology
2008 Peer reviewer – Cochrane Database of EBM

Teaching

2005-2007 Lecturer, Movement Disorders, Neurology clerkship, HUP
- 12-15 students, 10 lectures over 24 months
2006 Instructor, PIPELINE Neuroscience education for innercity
high schools, HUP
- 25 students, 3 classes over 6 weeks
2006-2007 Lecturer, Movement Disorders, Neurology residents, HUP
- 30 residents, 3 lectures over 12 months
2007 Instructor, Brain and Behavior for medical students, HUP
- 14 students, 1 class
2007-present Director, Movement Disorders resident lecture series, UofL
- 8 residents, 6 lectures over 12 months
2007-present Director, Resident In-service Exam Lecture Series, UofL
- 8 residents, 24 lectures over 2 months
2007-present Co-director, Resident Journal Club, UofL
- 8 residents, monthly article and evidence-based review
2008-present Lecturer, Medical student Neurology clerkship, UofL
2008-present Lecturer, Neurology Review series, Dept of Internal
Medicine, UofL

Abstracts and Presentations

Oral Presentations:

1. “Case studies in Parkinson’s disease”. Faculty Presenter. UofL Department of Medicine Professor Rounds. Louisville, KY. May 4, 2009.
2. “Neuroprotection in Parkinson’s disease: truth and myths”. Invited speaker. Living Well Seminar, Parkinson’s Support Center of Kentuckiana. Louisville, KY. April 17, 2009.
3. “Ataxia cases.” Faculty Presenter. The 2nd Annual Tri-State Movement Disorder Video Olympics. April 8, 2009.
4. “Gait disorders.” Faculty Presenter. PM&R Grand Rounds. UofL/Frazier Rehab Institute. Louisville, KY. November 14, 2008.
5. “Review of Movement Disorders”. Invited speaker. Veteran’s Administration Hospital. Louisville, KY. November 2008.
6. “Surgical therapies for Parkinson’s disease”. Invited speaker. Bowling Green, KY. October 24, 2008.
7. “New approaches in PD”. Invited speaker. Bardstown PD Support Group, Flaget Memorial Hospital. September 13, 2008.

8. "Introduction to movement disorders: the neurosurgical perspective." Faculty Presenter. UofL Neurosurgery Faculty Rounds. Louisville, KY. September 4, 2008.
9. "New treatments in Huntington's Disease". Invited speaker. Huntington's Disease Society of America, Louisville Chapter. Louisville, KY. May 13, 2008.
10. "PD 202: secondary symptoms". Invited speaker. Living Well Seminar, Parkinson's Support Center of Kentuckiana. Louisville, KY. April 21, 2008.
11. "Deep brain stimulation and Parkinson's disease: panel discussion". Moderator and invited speaker. Parkinson's Support Center of Kentuckiana. Louisville, KY. February 19, 2008.
12. "Deep brain stimulation for movement disorders". Invited speaker. Movement Disorders: Etiology, Evaluation, and Intervention. Louisville, KY. February 16, 2008.
13. "Dystonia: diagnosis and treatment". Invited speaker. Movement Disorders: Etiology, Evaluation, and Intervention. Louisville, KY. February 16, 2008.
14. "Neurotechnology and cosmetic neurology". Invited speaker. Kentucky Association for Academic Competition (KAAC), Future Problem Solving Lecture Series. Louisville, KY. February 12, 2008.
15. "Medication management and PD: the five-finger approach". Invited speaker. Our Mother of Sorrows PD Support Group. November 20, 2007.
16. "Introduction to the Surgical Treatment of Movement Disorders". Invited speaker. Student Interest Group for Neurology (SIGN). U of L School of Medicine. Louisville, KY. November 12, 2007.
17. "DBS and non-motor symptoms of PD". Faculty speaker. U of L Neurology and Neurosurgery Grand Rounds. October 30, 2007
18. "Introduction to the Surgical Treatment of Movement Disorders". Faculty presenter. Movement Disorders for the Community. Louisville, KY. September 28, 2007.
19. "A Practical Approach to the Surgical Treatment of Movement Disorders". Faculty presenter. Practical Management of Movement Disorders for Health Care Professionals (CME). Louisville, KY. September 28, 2007.
20. "Neurotechnology in Movement Disorders and Neurodegeneration". Invited speaker. Kentucky Association for Academic Competition (KAAC), Future Problem Solving Conference. Louisville, KY. September 28, 2007.
21. "Nursing role in Movement Disorders". Invited speaker. Louisville Gerontology Nurses. Louisville, KY. September 25, 2007.
22. "Management of non-motor symptoms in PD". Invited speaker. Parkinson's Support Center of Kentuckiana. Louisville, KY. September 24, 2007.
23. "Deep brain stimulation for movement disorders". Invited speaker. Movement Disorders: Etiology, Evaluation, and Intervention. Louisville, KY. August 18, 2007.
24. "Current treatments for PD." Invited speaker. Elkins Park PD Support Group. Elkins Park, PA. March 2007.

25. “Management of non-motor symptoms in PD”. Invited speaker. Parkinson’s Disease Support Group of Pennsylvania Hospital. Philadelphia, PA. November 2006.
26. “Clinical and Economic Determinants of Caregiver Burden in Parkinson’s Disease.” University of Pennsylvania, Grand Rounds, Zeritsky Research Presentations (senior residency project). April 2006.

Poster Presentations:

1. **Houghton DJ**, Litvan I, Constantino A, et. al. Aquatic-based physical therapy for Parkinson’s disease and atypical parkinsonian disorders. National Parkinson Foundation, 2007 Leadership Conference. Houston, TX. October 2008.
2. **Houghton DJ**, Shepherd C, Litvan I, Constantino A, et. al. Measures of Utilization and Outcome in Interdisciplinary Care. National Parkinson Foundation, 2007 Leadership Conference. Miami, FL, October 2007.
3. **Houghton DJ**, Barbour PJ, Leopold NA, Lee JH, Siderowf AD. Clinical and Economic Determinants of Caregiver Burden in PD. Symposia on Etiology, Pathogenesis, and Treatment of Parkinson’s Disease and Other Movement Disorders, Chicago, October 2006.
4. **Houghton DJ**, Sperling MR, Salmon EA, O’Connor MJ, Berg AT. Preoperative predictors of postoperative seizure recurrence after anterior temporal lobectomy: analysis with Cox proportional hazards model. American Academy of Neurology Annual meeting, Denver, April 2002.

Patents None

Research Grants and Clinical Trial Participation

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| 2009 – current | Principal investigator. “A Randomized, Double Blind, Placebo Controlled Study to Assess the Efficacy and Safety of Three Doses of Aplindore MR (1, 3, and 6 mg Twice Daily) in Patients with Early Parkinson Disease.” Parkinson Study Group. Louisville, KY. |
| 2008 – current | Co-investigator. “Effects of Coenzyme Q10 in Parkinson Disease – Phase 3 (QE3).” National Institute of Neurological Disorders and Stroke (NINDS) of the National Institutes of Health (NIH). Louisville, KY. |
| 2008 – current | Co-investigator. “A multi-center, open-label study, with a two week randomized, placebo-controlled, withdrawal period, to assess the long-term safety and clinical benefit of droxidopa in subjects with primary autonomic failure, dopamine beta-hydroxylase deficiency or non-diabetic neuropathy and symptomatic orthostatic hypotension.” Louisville, KY. |
| 2008 – current | Co-investigator. “A pilot trial of lithium in subjects with progressive supranuclear palsy or corticobasal degeneration.” Louisville, KY. |
| 2007 – current | Principal investigator. “A Multicenter, Randomized, Double |

- Blind, Placebo-Controlled, 5-Arm Parallel-Group Trial to Assess Rotigotine Transdermal System Dose Response in Subjects with Advanced-Stage Parkinson's Disease." Schwarz Biosciences, Inc. Louisville, KY.
- 2007 – current **Co- investigator.** "Mindfulness-based stress reduction and Parkinson's disease." Funded by UofL. Louisville, KY.
- 2006– 2007 **Sub-investigator.** "A Multicenter, Double-Blind, Parallel Group, Placebo Controlled Study of Creatine in Subjects With Treated Parkinson's Disease (PD) Long Term Study (LS-1)". NINDS. Philadelphia, PA
- 2006 – 2007 **Clinical rater.** "Randomized, Double-Blind, Sham Surgery-controlled Study of CERE-120 (Adeno-Associated Virus Serotype 2 [AAV2]-Neurturin [NTN]) to Assess the Efficacy and Safety of Bilateral Intraputaminial (IPu) Delivery in Subjects with Idiopathic Parkinson's Disease". Ceregene, Inc. Philadelphia, PA

Clinical Service Resident & fellow inpatient/outpatient duties, HUP (2003-07)
 Consulting neurologist, Holy Spirit Hospital, Camp Hill, PA (2006-07)
 Attending neurology duties, UofL/Norton Hospital (2007 – present)

Publications, Book Chapters, Monographs and Textbooks

1. Stephenson R, **Houghton DJ**, Sundarararjan S, Doty RL, Stern MB, Xie SX, Siderowf AD. Odor identification deficits are associated with increased risk of neuropsychiatric complications in patients with Parkinson's disease. (Submitted, 2009)
2. **Houghton DJ**, Litvan I. Hypokinetic Disorders. In The Encyclopedia of Movement Disorders, John Wiley and Sons Limited. Online. (In press, 2009).
3. **Houghton DJ**, Hurtig HI. Movement Disorders. In The Encyclopedia of Life Sciences, John Wiley and Sons Limited. Online. (In press, 2009).
4. **Houghton DJ**, Litvan I. Unraveling progressive supranuclear palsy: from the bedside back to the bench. Parkinsonism & Related Disorders, 2007;13: S341 - S346.
5. **Houghton DJ**, Kleiner-Fisman G. Subthalamic nucleus deep brain stimulation and non-motor symptoms of Parkinson's disease. In G.H. Baltuch & M. B. Stern (Eds.) Deep brain stimulation for Parkinson's disease: A comprehensive text. Philadelphia, PA, Informa Healthcare, March 2007; pps. 219-245.
6. Elman LB, **Houghton DJ**, Wu GF, Hurtig HI, Markowitz CE, McCluskey LF. Palliative Care in Amyotrophic Lateral Sclerosis, Parkinson's Disease and Multiple Sclerosis. J. Palliat. Med. 2007; 10(2): 433-457.

7. Ances BM, Vitaliani R, Taylor RA, Liebeskind DS, Voloschin A, **Houghton DJ**, Galetta SL, Dichter M, Alavi M, Rosenfeld MR, Dalmau J. Treatment-responsive limbic encephalitis identified by neuropil antibodies: MRI and PET correlates. *Brain* 2005; 128: 1764-77.

Community / Educational Publications

- 1. Houghton DJ**, Hurtig HI. Parkinson's Disease Medication Manual. National Parkinson's Foundation patient publication series. January 2009.
- 2. Houghton DJ**. "Parkinson's disease in women" *Kentuckiana Healthy Woman*, August/September 2008.
- 3. Houghton DJ**. "Non-motor symptoms of Parkinson's disease: Part I." *PSCKY Fall Newsletter*, 2007.
- 4. Houghton DJ**. "Non-motor symptoms of Parkinson's disease: Part II." *PSCKY Spring Newsletter*, 2008.
- 5. Houghton DJ**, Hurtig HI. "Pharmaceutical research yields new forms of Parkinson medications." *The Parkinson Report*, quarterly publication of the National Parkinson Foundation. Winter 2007.