

LAWRENCE J. HIRSCH, M.D.

Professor of Neurology, Yale University

CURRICULUM VITAE

Date of preparation: Sept 10, 2018

Yale University School of Medicine, Dept of Neurology, Comprehensive Epilepsy Center

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PERSONAL DATA:

Birth: New Brunswick, NJ, U.S.A.

Citizenship: United States

EDUCATION:

UNDERGRADUATE: 1983 - 1987

University of Pennsylvania, Philadelphia, PA.

Received B.A. in Computer Medicine (individualized major)

Summa cum laude. Phi Beta Kappa.

MEDICAL SCHOOL: 1987 - 1991

Yale University School of Medicine, New Haven, CT.

Received M.D. June 1991. Class co-president. Student body president.

POSTGRADUATE TRAINING:

MEDICINE INTERNSHIP: 1991 - 1992

Yale-New Haven Hospital, New Haven, CT

NEUROLOGY RESIDENCY: 1992 - 1995

Columbia University, Neurological Institute, New York, NY

Chief Resident (selected by Lewis P. Rowland, chairman) 1994-1995

CLINICAL FELLOWSHIP IN EPILEPSY/EEG: 1995 - 1997

Comprehensive Epilepsy Center, *Columbia Univ.*, Columbia-Presbyterian Medical Ctr., New York, NY. Director: Timothy A. Pedley, MD.

MEDICAL LICENSURE:

New York State License # 197973 1994-2012

Connecticut State License # 49900 2011-

D.E.A. License # BH4413023 1994-

BOARD CERTIFICATION:

Medicine: National Board of Medical Examiners 1992

Neurology: American Board of Psychiatry and Neurology 1996-2006

• Recertification 2006-2016

• Recertification (#42838) 2016-2026

Clinical Neurophysiology: American Board of Psychiatry and Neurology 1997-2007

• Recertification (certif #839) 2007-2017

Clinical Neurophysiology: American Board of Clinical Neurophysiology 1997-2007

• Recertification (lifetime) 2007-

Epilepsy: American Board of Psychiatry and Neurology 2013-2023
(certificate #190, 11/5/2013)

MILITARY SERVICE: None

PROFESSIONAL ORGANIZATIONS and SOCIETIES:

American Medical Association
American Academy of Neurology (Fellow)
American Epilepsy Society (Fellow)
American Clinical Neurophysiology Society (Fellow)
Neurocritical Care Society (Charter member)
American Neurological Association (Fellow)

ACADEMIC APPOINTMENTS

Associate in Neurology, Columbia University, New York, NY 1997-1998
Assistant Professor of Clinical Neurology, Columbia Univ., New York, NY 1998-2003
Associate Clinical Professor of Neurology, Columbia Univ., New York, NY 2003-12/31/2009
Professor of Clinical Neurology, Columbia University, New York, NY 1/1/2010-4/30/2011
Adjunct Professor of Clinical Neurology, Columbia University, NY, NY 5/1/2011-5/1/2012
Professor of Neurology, Yale University, New Haven, CT 5/1/2011-

HOSPITAL APPOINTMENTS (all New York til 2011, then New Haven, CT):

Associate Neurologist, Presbyterian Hospital, Columbia-Presbyterian Med Ctr 1997-1998
Associate Attending Neurologist, White Plains Hospital and
The Neurology Group of Westchester, P.C., White Plains, NY 1997-2003
Assistant Attending Neurologist, New York-Presbyterian Hospital 1998-2003
Associate Attending Neurologist, New York-Presbyterian Hospital 2003-2009
Attending Neurologist, New York-Presbyterian Hospital 1/1/2010-4/30/2011
Attending Neurologist, Yale-New Haven Hospital, New Haven, CT 5/1/2011-

OTHER HOSPITAL TITLES (all at NY-Presbyterian Hospital-Columbia
campus, New York, NY until 5/1/2011, then Yale):

Attending, Comprehensive Epilepsy Center 1997-
Attending, Division of General Neurology 1997-2001
Director, Epilepsy Clinic 1997-2002
Director, General Neurology Clinic 1998-2001
Neurology Consultant, Columbia Univ. Athletic Department 1998-2002
Director, Continuous EEG Monitoring Program 2002-2011
Director, Clinical Neurophysiology 2010-2011
(including ACGME Fellowship Program)
Chief, Division of Epilepsy and EEG, Yale Univ., New Haven, CT 5/1/2011-
Co-director, Yale Comprehensive Epilepsy Center, New Haven, CT 5/1/2011-
Co-Director, Critical Care EEG Monitoring, Yale-New Haven Hosp 5/1/2011-

HONORS:

Phi Beta Kappa, Univ. of Pennsylvania 1986
Summa Cum Laude, Univ. of Pennsylvania 1987
Class Co-President, Yale Univ. School of Medicine (elected) 1988
Student Body President, Yale Univ. School of Medicine (elected) 1989

Co-Chief Resident (Neurology Residency Program), Columbia Univ Medical Center (selected by Chairman and Executive Committee)	1994
Lewis P. Rowland Teaching Award for Outstanding Teaching (Awarded by Columbia neurology residents)	1998 and 2008
Director, General Neurology Clinic (appointed by chairman)	1997-2001
Director, Epilepsy Clinic (appointed by Director, Epilepsy Center)	1997-2002
Director, visiting student ambulatory care neurology rotation (appointed by Chairman)	1997-2002
Fellow, American Clinical Neurophysiology Society	2005-
Founder and Chair , American Clinical Neurophysiology Society's Critical Care Monitoring Committee (became the Critical Care EEG Monitoring Research Consortium ; increased from 8 member centers to >50 from N. Amer and Europe as of 2017)	2006-2011
Chair, American Epilepsy Society Student and Resident Education Committee	2006-2009
Examiner, American Board of Clinical Neurophysiol Part II (oral EEG boards)	2007
Member, Organizing Committee and head of writing committee for the NIH Workshop on Sudden Unexplained Death in Epilepsy (SUDEP)	2008-2010
Scientific Program Chair, American Clinical Neurophysiology Society Annual meetings (selected by President, ACNS)	2006, 2010
Chair, Professional Advisory Board, Epilepsy Society of Southern NY	2009-2011
Fellow, American Academy of Neurology	2009-
Visiting Professorship, Northwestern Univ Dept. of Neurology, Chicago IL	2009
Charter Member, American Board of Registered EEG Technologists Lab Accreditation Board (ABRET-LAB) for Long-Term Monitoring	2010-2013
Keynote Speaker, Dartmouth Epilepsy Program Annual Retreat, Stowe, VT	2011
Donald P. Granger Lecturer, Annual Neurology Granger Memorial Lecture, Bridgeport Hosp, Bridgeport CT	2012
Gloor Lecturer and Grand Plenary Speaker for the Canadian Neurological Sciences Federation 47 th annual meeting, Ottawa, Ontario, Canada	2012
Councilor, American Academy of Neurology Epilepsy section	2012-
Chair, American Epilepsy Society's Research Infrastructure Award Committee	2010-2013
Fellow, American Neurological Association	2012-
Sahlie Distinguished Lecturer, University of Alabama at Birmingham	2013
Member, American Epilepsy Society's Q-PULSE expert panel	2013-
Visiting Professorship, Mayo Clinic Dept. of Neurology, Rochester MN	2013
Attending of the Year award , Yale University (awarded by Yale neurology residents for excellence in teaching)	2013
Keynote Speaker, Norwegian Clinical Neurophysiology Society	2013
Co-chair, American Clinical Neurophysiology Society's Clinical Research Committee	2013-2015
Co-chair, American Clinical Neurophysiology Society's Research Highlights	2014-2017
New York's Best Doctors, New York Magazine	2014
Visiting Professorship, Riyadh Military Hospital, Riyadh, Saudi Arabia	2014
Founder and Co-moderator, Research Highlights platform session, American Clinical Neurophysiology Society annual meeting	2015-
Member, American Academy of Neurology's Epilepsy Expert Review Panel	2015-
Visiting Professorship, Univ of Pittsburgh Medical Center, Pittsburgh, PA	2016
Fellow, American Epilepsy Society	2016-
Member, American Brain Foundation's Expert Review Panel	2017-
Top Doctors, Connecticut Magazine	2018
Insley Lecturer, Dept of Neurology, Univ of Rochester, Rochester, NY	2018
Member, National Professional Advisory Board, Epilepsy Foundation	2018-2021

FUNDED RESEARCH PROJECTS:

Completed studies:

External Responsive Neurostimulator Study, multicenter. Co-investigator and site primary device programmer. Funded by Neuropace, Inc. Completed 2005.

Responsive Neurostimulator Study Safety and Feasibility Study, multicenter. Co-investigator and site primary device programmer. Funded by Neuropace, Inc. Completed 2005.

A randomized, double-blind, placebo-controlled trial of donepezil for memory dysfunction in patients with epilepsy. Principle Investigator. Funded by Pfizer for \$32,500. Completed 2006.

Cardiac effects of seizures in children: a pilot study. Faculty supervisor and P.I. Funded by the National Epifellow Foundation (\$20,000, grant to Kelly Knupp, MD, epilepsy fellow; transferred to Danielle McBrian, MD). Completed 2008.

Treatment for psychogenic nonepileptic seizures: A pilot, 12 week, prospective, randomized, placebo-controlled, double-blind, clinical trial of sertraline in the treatment of comorbid psychiatric disorders in non-epileptic seizures. Medical Safety Monitor (no funding for this portion). P.I.: W. Curt LaFrance, Jr., MD, Brown Medical School. Funded by The National Institute of Neurological Disorders and Stroke (NINDS) (1 K23 NS 45902-01). Completed 2008.

Stimulation of the Anterior Nucleus of the Thalamus for Epilepsy (SANTE) trial, multicenter. Co-investigator and site primary device programmer. Funded by Medtronic. Completed 2008.

A Phase 2a, Open-label, Proof-of-Concept Study to Evaluate the Efficacy, Safety, and pharmacokinetics of Intranasal Clonazepam in Adult Subjects with Epileptic Seizures, multicenter. Site Principle Investigator. Funded by Jazz Pharmaceuticals. Started June 2008, completed February 2009.

Convulsive and non-convulsive epileptic activity and biomarkers of cellular injury. Faculty supervisor and P.I. (first year), then co-investigator. Funded by the Epilepsy Foundation as a Post-doctoral Research Training Fellowship for Clinicians, \$40,000 awarded to Derek Chong, MD (epilepsy fellow) 2006. Completed 2008.

Responsive Neurostimulator Study Pivotal Efficacy Trial, multicenter. Site Principle Investigator and primary device programmer, Columbia Univ, until 5/1/2011; then investigator at Yale Univ. Funded by Neuropace, Inc. Started 2007, enrollment complete 2009, completed 2011.

Continuous EEG in sepsis-associated encephalopathy. Principal Investigator (with fellow, Emily Gilmore) until 5/1/2011 at Columbia, then investigator. Funded by the American Epilepsy Society and Epilepsy Foundation (Senior Initiative award), \$75,000. Started October 2009. Enrollment completed 2011.

SIRPIDs: nature and clinical significance. Faculty advisor for Nicolas Gaspard, MD, PhD. 2011-2013 Postdoctoral Research Fellowship, Belgian American Education Foundation, \$35,000.

SIRPIDs: nature and clinical significance. Faculty advisor for Nicolas Gaspard, MD, PhD. 2011-2013. Research Fellowship for Young Investigators, Belgian Neurological Society, 10,000€

SIRPIDs: nature and clinical significance. Faculty advisor for Nicolas Gaspard, MD, PhD. 2011-2013. Postdoctoral Fulbright Scholarship. Commission for Educational Exchange Between the USA and Belgium, \$2,500.

Multimodality Mapping of Language Areas for Epilepsy Surgery. Faculty advisor for Nicolas Gaspard, MD, PhD. 2012-2014. Postdoctoral Research Fellowship, Epilepsy Foundation of America, \$45,000.

Critical Care EEG Monitoring Research Consortium. Founder (2006), Chair and Principle Investigator of Consortium 2006-2011, then past Chair and site P.I (Yale) 2011- . Funded by American Epilepsy Society Research Infrastructure Award 2008-2009 for \$75,000 (total, divided among centers), renewed for 2009-2010 at \$50,000. 10 centers in U.S. and Canada, expanded to 17 centers by 2011 and 28 by 2013. Re-funded by AES Research Infrastructure award 2014-2015, \$50,000 (divided among centers).

The Epilepsy Bioinformatics Study. Co-investigator. (P.I.: J Engel, UCLA). National Institutes of Health. 1P20NS080181-01, Exploratory grant program in disease modification and prevention in the epilepsies. 2012-2015. 0.6 months without salary support. \$1500 for travel.

The Role of EEG-fMRI in Prediction of Seizure Outcome after Stimulation of the Centromedian Nucleus in Patients with Lennox-Gastaut Syndrome. Co-investigator. (P.I.: R. Alkawadri). 2013-2015. Funded by The Swebilius Foundation.

Seizure Clusters: Definition, Natural History and Consequences. Co-investigator (P.I.: K. Detyniecki). 2013-2017. Prospective, observational, investigator-initiated study. Funded by Upsher-Smith.

Ongoing studies:

An Investigator-initiated, Prospective, Multi-center, Controlled Feasibility Study of Direct Brain Recording and Stimulation for Memory Enhancement. Data and Safety Medical Monitor. (P.I. Michael Kahana, U. Pennsylvania). DARPA. MEMES-2014-01. 2014-2018. 0.5 months/yr without salary support.

The Antiepileptic Drug Database Project and the Computer-Assisted Rational Epilepsy Therapy (CARET) Project. Principal Investigator 2002 - 2011, then co-investigator. Funded between 2002-2018 by Ortho-McNeil, Elan, Pfizer, GlaxoSmithKline, UCB-Pharma, Novartis, Eisai, Sunovion, Upsher-Smith, Acorda and Lundbeck. Total funding: >\$800,000. Currently >4500 patients and >35,000 serum levels in database. Started 2002, ongoing. Became the Columbia-Yale AED Database Project 2012 and after.

Responsive Neurostimulator Study Trial Long-term Extension, multicenter. Site Principle Investigator and device programmer, Columbia Univ, until 5/1/2011; then investigator at Yale Univ. Funded by NeuroPace, Inc. Payment per patient. Started 2006, planned until 2018 (10 year follow up study).

Responsive Neurostimulator Post-approval Study. Site Principle Investigator and device programmer, Yale Univ. Funded by NeuroPace, Inc. Payment per patient. 2017-2020.

Seizure Clusters in Children: Definition, Natural History and Consequences. Co-investigator (P.I.s.: K. Detyniecki; T. Loddenkemper). Prospective, observational, investigator-initiated, 2-center study (Yale and Harvard/Boston Children's). Funded by Upsher-Smith. 2016-2018.

Mapping Cortical Language Boundaries in Neurosurgical Planning: Validation of a novel fMRI protocol. Mentor to Christopher Benjamin, PhD, who is P.I. KL2, Yale Center for Clinical Investigation (YCCI). 2016-2018.

Understanding Potentially Harmful EEG Patterns in Patients with Acute Brain Injury and Critical Illness. Mentor to Emily Gilmore, MD. American Brain Foundation/American Academy of Neurology Clinical Research Training Fellowship, 2015-2018.

FLARE trial: Feasibility Study on Laser Thermal Ablation for the Treatment of Medically Refractory Epilepsy. Site P.I. Funded by Monteris Medical Corp. Payment per patient. 2017-2020.

NORSE (New-Onset Refractory Status Epilepticus) Prospective Observational Multicenter Trial. Co-PI of this 26 center study, funded by The Daniel Raymond Wong Neurology Research Fund at Yale. \$250,000. 2017 – 2020.

DEPARTMENTAL AND UNIVERSITY COMMITTEES:

(At Columbia until 5/1/2011, then at Yale)

Neurology Residency Selection Committee, primary interviewer	1998-2010
Finances Task Force, Dept. of Neurology	2002-2003
Clinical/DPO subcommittee	
Billing subcommittee	
Individual Faculty Advisor, Neurology Residents	2003-2006; 2008-
Operations Clinical Information Council	2003-2004
Quality Assurance Committee, Dept. of Neurology	2005-2010
Program Director, Clinical Neurophysiology ACGME Fellowship Program	2010

-----Move to Yale Univ School of Medicine, May 2011-----

Grand Rounds Planning Committee, Dept. of Neurology	2011-2014, 2017
Pediatric Neurology Search Committee, Dept. of Pediatrics & Neurology	2011-2015
Pediatric Epilepsy Search Committee, Dept. of Pediatrics & Neurology	2011-2016, 2018
Chair, Neuropsychology Search Committee, Dept. of Neurology	2013-2014
Appointments and Promotions Committee, Dept. of Neurology	2011-
Neurology resident mentor	2012-2015
Senior Appointments and Promotions Committee, Yale U. School of Medicine	2013-2016
Academic Scorecard Committee, Dept. of Neurology	2013-
Efficiency Committee, Dept. of Neurology	2014-2015
Program Director, Epilepsy ACGME Fellowship Program	2014-2016

TEACHING RESPONSIBILITIES: (At Columbia until 5/1/2011, then at Yale)

Director of general neurology clinic (appointed by chairman)	1997-2001
Director of epilepsy clinic (appointed by director of epilepsy center)	1997-2002
Director, visiting student ambulatory care neurology rotation (appointed by chairman)	1997-2002
On-service 1-2 months/year (neurology consult or ward service)	1997-2010
Faculty advisor for neurology residents graduating in 2001 (appointed by chairman and residency director).	1998-2001
Neurology morning report (for residents; attendings selected by neurology chairman; ~4-6 weeks/year 1999-2007, then ~20 days/year 2007-)	1999-2011
Neurology Chief of service rounds (for residents and medical students; attendings selected by neurology chairman; 2-5/year)	1999-2011
Preceptor for 4 th year medical student elective (selected by individual students)	1997-2004
Preceptor for international medical student elective rotations	1997-2003
Preceptor for psychiatry residents' neurology rotations (selected by individual residents)	1997-2002
Member, American Epilepsy Society Student and Resident	2000-2009

Education Committee	
Clinical Mentor for individual Neuroscience MD-PhD students (Thalia Robakis; Neil Gray)	2003-2006
Research Mentor, Neurology residents (Christopher Anderson, Trudy Pang, Babak Morvarid, Craig Chang, Sara Inati, Shanna Patterson, Brandon Foreman, Emily Gilmore)	2004-2011
Vice-chair, American Epilepsy Society Student and Resident Education Committee	2005-2006
Chair, American Epilepsy Society Education Committee	2006-2009
Neurology resident research mentor, 1-3 residents/yr	2002-2011
Examiner, neurology resident oral evaluations	2003-2009
Epilepsy Fellow Teaching Roundtable, weekly conference	2004-2011
Video/EEGs of the week, Resident and Student conference, weekly	2001-2008
Guest Faculty, Internal Medicine Hospitalist Rounds, 1-3 times/year	2004-2007
Faculty mentor, Medical student first year doctor-patient relationship course	2006-2011
Neurology resident & fellow urgent EEG interpretation lecture series	2006-2011
Epilepsy conference for neurology residents, weekly	2008-2011
External examiner for M.D. thesis, Faculty of Medicine and Health Sciences of the Royal College of Surgeons, Ireland	2009
Faculty mentor for high school science student, Ossining, NY	2009-11
Faculty mentor for high school science student, Bellmore, NY	2010-12
Individual Faculty Advisor, Neurology Residency Class of 2011, 2012	2009-2011

Yale:

General Neurology inpatient attending, 4 weeks/year	2011-
Interesting video/EEG and epilepsy cases, weekly conference	2011-
Epilepsy weekly surgical case conference	2011-
Neurology morning report, sporadic	2011-
Epilepsy Fellows Lecture Series, several /year	2011-
Neurology Chief Rounds, 1-2/year	2012-
Co-director and co-moderator, Yale Epilepsy Research Retreats (q18 months)	2011-
Epilepsy lecture to Yale med student class, annually	2012-2015
Faculty Advisor, individual neurology residents (Irene Yang; Robert Kowalski)	2012-2015

INVITED LECTURES:

At Columbia University Medical Center (until 5/1/2011):

Epilepsy Research Seminar talks (1-2/year, 1997-):

Cavernous malformations; Hypothalamic hamartomas; EEG monitoring in the ICU and the ictal/interictal continuum; MR spectroscopy and epilepsy; perioperative seizures; SIRPIDs (stimulus-induced rhythmic, periodic or ictal discharges); Subtraction SPECT; Epilepsy Surgery Database Results; Columbia AED Database Results (many lectures on various subtopics); Brain stimulation for epilepsy; Ictal EKG changes; SUDEP; Status Epilepticus: Treatment of Nonconvulsive Seizures; Neurophys Bowl parts I-III; journal clubs and national meeting highlight summaries.

Other epilepsy talks (for residents and fellows, many annually, 1997-):

Introduction to EEG; Normal adult EEG; EEG in metabolic disease and coma; Epilepsy in the elderly; First Seizure; Practical AED use parts I and II; Status epilepticus; Benign EEG variants; Evoked Potentials; New onset epilepsy; Epilepsy presurgical evaluation; Epileptiform discharges; Continuous EEG monitoring in the critically ill; Nonconvulsive Seizures and Periodic Discharges; Status Epilepticus; Seizure semiology; Emergency EEG: what you need to know in the middle of the night (3-4 times/year, 2006-); Quantitative EEG techniques; Clinical Epilepsy Introduction For Neurology Residents (2007-)

- General Neurology Talks (for residents, 1997-2001):
LBP/lumbosacral radiculopathy; Normal Pressure Hydrocephalus;
- Adult Neurology Grand Rounds:
1997: CPC (SSPE)
1999: CPC (multiple strokes from nonbacterial thrombotic endocarditis)
2004: Continuous EEG Monitoring in the Critically Ill
2008: Continuous EEG: The Next Frontier of Critical Care Monitoring
2009: CPC (CNS vasculitis; Amyloid-beta related angiitis)
- Pediatric Neurology Grand Rounds
2004: Use of Antiepileptic Drugs in Children: results from the Columbia AED Database
- Neurosurgery Grand Rounds
1999: Perioperative Seizures: prevention and management
2010: Brain Stimulation for Epilepsy
- Housestaff Emergency Lecture Series, Dept. of Medicine: seizures and status epilepticus (annual) 1997-2002
- Medical ICU attending lecture series: status epilepticus 2001
- Dept. of Medicine, Allen Pavilion Resident Neurology Case Conference 2003
- Dept. of Medicine Grand Rounds, Allen Pavilion. Epilepsy Update 2004
- Dept. of Medicine CPC (HIV, PML, nonconvulsive status epilepticus) 2004
- Dept. of Medicine Hospitalist Rounds, Guest Attending 2004
- Dept. of Pediatrics, PICU lecture series: Continuous EEG Monitoring in critically ill children 2004
- Critical Care Grand Rounds
1999: Status Epilepticus
2004: EEG monitoring and seizures in the critically ill
- Emergency Medicine Grand Rounds:
Management of First Seizure 1997
Seizures and status epilepticus 2005
- Epilepsy Awareness Day: annually, 2002-
Antiepileptic Drugs for patients and caregivers; surgery and device treatment for epilepsy; alternative treatments for epilepsy; sports & epilepsy
- Epilepsy and its psychiatric aspects, combined psychiatry & neurology retreat, Purchase, NY, 2002. Epilepsy section head. 2002
- Surgical ICU Lecture Series: Status epilepticus, AEDs and EEG monitoring 2004
- Neuro ICU Nurse Practitioner Lecture Series: EEG monitoring 2006
- Dept. of Psychiatry, Div. of Brain Stimulation & Therapeutic Modulation 2007
Brain stimulation in epilepsy: diagnostic & therapeutic potential
- Neuropsychology Lecture Series: Seizure semiology 2008-
- Neonatology research conference : Neonatal EEG monitoring 2008

At Yale University (after 5/1/2011)

- Epilepsy Research Seminars 2011-
The Antiepileptic Drug Database
Multimodality monitoring of acute seizures
SUDEP
Electrocorticography (2013-)
Seizure videos on the internet: friend or foe?
New seizure classification system (2016)
- Epilepsy Fellows' lecture series: 2011-
Benign EEG variants
ICU-EEG I and II

SUDEP	
Quantitative EEG	
New ICU EEG Nomenclature	
Neurophys Bowl	
Current Practice of Clinical EEG, chapter reviews (~10/yr)	
Classic journal article reviews	
Surgical ICU noon lecture series: Management of seizures in the ICU	2011-2012
Neurology Resident Evening Lectures, "How to read an EEG in the middle of the night" (couple/year)	2012-2016
Medical student clinical neuroscience course: Epilepsy	2012-15
Neurology Grand Rounds:	2016
Critical Care EEG Monitoring: Past, present and future	

Invited Talks Outside of home institution, U.S.:

Grand Rounds, Dept. of Neurology, White Plains Hospital: status epilepticus; new AEDs; epilepsy updates; perioperative seizures	annually 1997-2003
Grand Rounds, Dept. of Neurology, <i>Penn State</i> , Hershey, PA: MR Spectroscopy and epilepsy	1998
White Plains Hosp. Stroke Support Group (White Plains Hosp): Stroke and seizures	2000
Epilepsy Foundation of NYC (Manhattan): AEDs (for patients and caregivers)	2000
Epilepsy Foundation of NJ: Epilepsy surgery and Vagus Nerve Stimulation; New Antiepileptic Drugs (for patients and caregivers).	2001
Critical Care Update (weekend seminar, Manhattan): refractory status epilepticus	2001
Multi-center dinner seminar, Manhattan: Acetylcholine, memory & epilepsy.	2001
Dominican College, Orangeburg, NY: Sports and Epilepsy (for patients and caregivers; sponsored by EFSNY)	2003
American Epilepsy Society annual meeting, Boston EEG Monitoring in the Critically Ill: Overview and practical tips (in Investigator's Workshop "Nonconvulsive Status Epilepticus and ICU EEG monitoring", director: L. Hirsch)	2003
American Academy of Neurology annual meeting, San Francisco: 1. Treatment of status epilepticus: Easy and Hard (in course on "Epilepsy Therapy", director J. French) 2. Continuous EEG Monitoring in the Critically Ill (in course on "Critical Care Epilepsy/EEG, director L. Hirsch)	2004
Grand Rounds, Dept. of Neurology, <i>University of Arkansas</i> Continuous EEG Monitoring in the Critically Ill	2004
American Academy of Clinical Neurophysiology annual meeting, Phoenix Continuous EEG Monitoring (in course on Critical Care Clinical Neurophysiology, director: L. Hirsch)	2005
Managing seizures in patients with brain tumors. In NY-Presbyterian Hospital CME course "Brain Tumors: Advances in diagnosis and treatment", Manhattan	2004
Update on Epilepsy and Sleep Disorders for Neurologists, Tarrytown, NY (CME course; director, L. Hirsch) 1. Nonconvulsive Status Epilepticus in the Critically Ill 2. Syncope versus seizure 3. Head-to-head comparison of the newer AEDs: the	2004

- real-world differences
4. Brain stimulation for epilepsy
Grand Rounds, Stamford Hospital, Stamford CT 2004
Detection of seizures and ischemia with continuous EEG monitoring
- American Academy of Neurology annual meeting, Miami 2005
1. Diagnosis and management of nonconvulsive and convulsive status epilepticus (in course "Clinical Epilepsy", director: J. French)
 2. Continuous EEG Monitoring (in course "Critical Care Epilepsy/EEG", director L. Hirsch)
 3. Practical treatment of status epilepticus (in course "Critical Care Epilepsy/EEG", director L. Hirsch)
 4. Video/EEG monitoring in the ICU (in course "Video/EEG monitoring: Practice, tools and tips", director E. So)
- Charles Henry Society, Teaneck NJ
- Continuous EEG Monitoring in the critically ill 2005
- Grand Rounds, Dept. of Neurology, *University of Vermont* 2005
- Brain Monitoring with EEG in the Critically Ill
- American Epilepsy Society/American Clinical Neurophysiology joint annual meeting, Washington D.C. 2005
1. Annual Course: Controversy: Resolved: In nonconvulsive status epilepticus, treat the EEG to burst-suppression: Con.
 2. Plenary session: Brain Monitoring with continuous EEG in the critically ill: What we've learned and where we should be going.
 3. National Epifellows Foundation 13th Annual Scientific Forum 2005
Practical treatment of convulsive and nonconvulsive status epilepticus.
- Brigham & Womens/Massachusetts General Hospital 2006
- Combined Epilepsy Conference: Continuous EEG Monitoring in the Critically Ill
- Advances in Epilepsy, CME course, N.Y. Methodist Hospital, Brooklyn 2006
- EEG Monitoring in the ICU: the Silent Epidemic Exposed.
- Grand Rounds, Dept. of Neurology, *University of Arizona*, Tucson AZ 2006
- Brain Monitoring with EEG: What we've found and where we should be going
- American Academy of Neurology annual meeting, San Diego, CA 2006
1. Treatment of status epilepticus (in course "Status Epilepticus", Director: F. Drislane)
 2. Diagnosis and management of nonconvulsive and convulsive status epilepticus (in course "Clinical Epilepsy", director: J. French)
 3. Video/EEG monitoring in the ICU (in course "Video/EEG monitoring: Practice, tools and tips", director E. So)
 4. Continuous EEG Monitoring (in course "Critical Care Epilepsy/EEG", director L. Hirsch)
- 3rd Annual NY Symposium on Neurological Emergencies and Neurocritical Care, Manhattan 2006
- Brain Monitoring with EEG in the Critically Ill
- American Soc. of Electroneurodiagnostic Technologists annual mtg, Phila, PA 2006
- The importance of video in ICU monitoring
- Grand Rounds, Dept. of Medicine, Valley Hospital, NJ 2006
- Seizures and status epilepticus in the critically ill: Recognition and Practical management

Current Treatment of Epilepsy in Adults with Disabilities, CME course, Valhalla, NY; Brain stimulation for epilepsy	2006
American Clinical Neurophysiology Society annual meeting, Chicago IL 2006 Proposed standardized nomenclature for rhythmic and periodic EEG patterns in the critically ill	
Grand Rounds, Maimonides Medical Center, Brooklyn, NY Brain monitoring in the critically ill.	2007
Grand Rounds, Dept. of Neurology, <i>Jefferson University</i> , Phila, PA EEG Brain Monitoring in the Acutely Ill	2007
Grand Rounds, Dept. of Neurology, <i>Duke University</i> , Raleigh-Durham NC Brain Monitoring with EEG: the next frontier of ICU monitoring	2007
Grand Rounds, Epilepsy Division, <i>Cleveland Clinic</i> , Cleveland OH EEG Patterns in the ICU	2007
Grand Rounds, Dept. of Neurology, <i>Indiana University</i> , Indianapolis, IN Brain Monitoring with EEG: the next frontier of ICU monitoring	2007
Epilepsy Conference, Mayo Clinic, Scottsdale AZ Brain Monitoring with EEG in the ICU and stroke unit: chasing cardiology again	2007
Grand Rounds, Dept. of Neurology, <i>Beth Israel Medical Center</i> , New York, NY Brain stimulation for epilepsy: The future has arrived	2007
Grand Rounds, Dept. of Neurology, <i>UMDNJ</i> , New Brunswick, NJ Brain Monitoring with EEG in the ICU and stroke unit: chasing cardiology again	2007
American Academy of Neurology annual meeting, Boston MA 1. Treatment of status epilepticus (in course "Recognition and management of the many types of status epilepticus", director: F. Drislane) 2. EEG in the critically ill (in course "Clinical EEG", director: J. Ebersole) 3. Video/EEG monitoring in the ICU (in course "Video/EEG monitoring in Neurological Practice: Tools, techniques and applications", director E. So) 4. Continuous EEG Monitoring in the Critically Ill: Indications, Findings, Pearls, Pitfalls, and the Latest Advances (in course "Critical Care Epilepsy/EEG", director L. Hirsch)	2007
Southern EEG and Western Clinical Neurophysiology Society Annual Meeting, Santa Fe, NM 1. EEG Controversies: Period, rhythmic and ictal discharges 2. Novel Therapeutics: Cortical Stimulation	2007
4 th Annual NY Symposium on Neurological Emergencies and Neurocritical Care, Manhattan 1. Brain Monitoring with EEG in the Critically Ill 2. Setting up your Continuous EEG Program 3. The Neurosimulator: Status Epilepticus. Expert commentator	2007
Grand Rounds, Dept. of Neurology, St. Vincent's Medical Center, Manhattan Recognition and Management of the Many Types of Status Epilepticus	2007
Grand Rounds, Dept. of Medicine, Stamford Hospital, Stamford, CT Brain Monitoring in the Critically Ill	2007
Neurology Update 2007, CME course (Columbia Univ), Manhattan Epilepsy	2007
Neurocritical Care 2007: 5 th Annual meeting, Cleveland, OH Continuous EEG in the NICU	2007

Epilepsy Foundation of Long Island Professional Advisory Board Meeting Garden City, NY	2007
1. EEG Monitoring in the ICU	
2. Brain Stimulation for Epilepsy: The Future is Here?	
Combined Epilepsy Conference, <i>Massachusetts General Hospital and Brigham & Women's Hospital</i> , Boston, MA	2007
1. ICU EEG Monitoring Update	
2. Brain Stimulation for the Treatment of Epilepsy	
American Epilepsy Society Annual Meeting, Philadelphia, PA	2007
1. Sudden Unexplained Death in Epilepsy Special Interest Group Mtg: Report of the SUDEP Task Force Scientific Committee	
2. Continuous EEG in the ICU Special Interest Group Mtg Continuous EEG in the ICU: Adults	
American Clinical Neurophysiology Society Annual Meeting, Savannah GA	2008
1. Annual Course: Clinical EEG: Periodic Complexes	
2. ICU EEG Monitoring Symposium: Integrating Technology: Multimodality monitoring Case Studies	
Neurology Grand Rounds, New York-Methodist Hospital	2008
Brain Monitoring in the ICU	
Neurology Update, New York (CME course; director: Martin Samuels)	2008
Practical Management of Seizures and Epilepsy: Pearls, Pitfalls and Progress	
Neurology Update, Boston (CME course; director: Martin Samuels)	2008
Practical Management of Seizures and Epilepsy: Pearls, Pitfalls and Progress	
Neurology Update, Chicago (CME course; director: Martin Samuels)	2008
Practical Management of Seizures and Epilepsy: Pearls, Pitfalls and Progress	
Neurology Grand Rounds, <i>Duke Univ.</i> , Raleigh-Durham, NC	2008
Diagnosis and Treatment of Seizures and Status Epilepticus in the Critically Ill	
Combined <i>Duke/U. North Carolina</i> Neurocritical Care Meeting, NC	2008
Multimodality brain monitoring with scalp and intracranial EEG in the Neuro ICU	
Neurology Resident Lecture Series, <i>Duke Univ</i> , NC	2008
Practical use of antiepileptic drugs in patients with tumors and other specific scenarios	
5th Annual NY Symposium on Neurological Emergencies and Neurocritical Care, Manhattan	2008
1. Setting up your Continuous EEG Program	
2. The Neurosimulator: Status Epilepticus. Expert commentator	
Calming the Excitable Brain (CME course; director: Mark Green; NY, NY)	2008
1. Diagnosis and pathophysiology of epilepsy	
2. Use of antiepileptic drugs	
3. Considerations in women with epilepsy	
4. Epilepsy diagnosis: case studies	
Pediatric Neurocritical Care Investigators' Meeting, Chicago, IL	2008
Use of Continuous EEG Monitoring: Overview (and moderator)	
Neurocritical Care Society Annual Meeting, Miami Beach, FL	2008
Continuous EEG: New Insights, New Dilemmas	
Brain Trauma Foundation Online Lecture Series	2008
TBI & Seizures: Myths, Realities, & Practicalities	

- Grand Rounds, Epilepsy Div., *Medical Univ. of South Carolina*, Charleston SC 2008
Status, subclinical seizures and brain monitoring in the ICU
- Neurology Grand Rounds, *Emory University*, Atlanta GA 2009
Brain Monitoring in the Critically Ill
- American Clinical Neurophysiology Society annual meeting, Orlando, FL 2009
Quantitative EEG techniques for detection of seizures and ischemia,
in symposium entitled "Incorporating EEG into ICU care"
- Bridgeport Hospital Stroke Center, Bridgeport, CT 2009
Seizures and seizure-mimics in cerebrovascular disease
- American Society of Electroneurodiagnostic Technologists, Special Webinar 2009
in honor of Lewis L. Kull: Traumatic Brain Injury and Seizures
- Boston Epilepsy Society, Boston, MA 2009
ICU Brain Monitoring with Continuous EEG in 2009 and Beyond
- Combined Epilepsy Conference, *Massachusetts General Hospital and Brigham & Women's Hospital*, Boston, MA 2009
New life in the fight against sudden death in epilepsy
- American Academy of Neurology annual meeting, Seattle, WA 2009
EEG in the critically ill (in course "Clinical EEG", director: J. Ebersole)
- 6th Annual NY Symposium on Neurological Emergencies and Neurocritical 2009
Care, Manhattan: Real-time CEEG: Cases and practical tips
- Neurology weekly conference, Lehigh Valley Medical Center, Lehigh PA 2009
Nonconvulsive Seizures, Status Epilepticus and EEG Brain Monitoring
- Neurology/Epilepsy Grand Rounds, *UCLA/Greater Los Angeles V.A. Hospital* 2009
Nonconvulsive seizures, status epilepticus and ICU Brain Monitoring
- Visiting Professor lectures, *Northwestern Univ*, Chicago IL 2009
Emergency EEG: What you need to know in the middle of the night
Quantitative EEG
Multimodality monitoring and continuous EEG in the ICU
Nonconvulsive seizures and periodic discharges
Panel discussion: AED treatment in the ICU: Case studies
Seizure semiology in the ICU
The new ACNS proposed nomenclature
- Neurology Grand Rounds, *Univ. of Cincinnati*, Cincinnati, OH 2009
Nonconvulsive Seizures, Status Epilepticus and EEG Brain Monitoring
- Neurology Grand Rounds, *New York University*, NY, NY 2009
Continuous EEG Monitoring in the ICU: Promise, Pearls, Pitfalls
and oPinions
- American Epilepsy Society annual meeting, Plenary Session 2009
ICU EEG Monitoring: The Future (Plenary co-chairs:
L. Hirsch, S. Herman)
- Neurocritical Care Society Annual Meeting, New Orleans, LA 2009
The EEG ictal-interictal continuum: a clinical challenge
- Neurology Grand Rounds, *Cornell University*, NY, NY 2009
Video-EEG Monitoring in the ICU: Promise, Pearls,
Pitfalls and oPinions
- The Annual Swabilius Lecture*, Dept. of Neurosurgery, Yale Univ, New Haven 2009
Video-EEG Monitoring in the ICU: Promise, Pearls,
Pitfalls and oPinions
- American Clinical Neurophysiology Society annual meeting, San Diego, CA 2010
1. Brain stimulation for epilepsy: Lessons learned from responsive
neurostimulation and chronic, ambulatory intracranial EEG (in Brain
stimulation symposium, director: L. Hirsch)

2. Neurophys Bowl, co-host	
Epilepsy Grand Rounds, <i>University Hospitals, Cleveland, OH</i>	2010
Video-EEG Monitoring in the ICU: Promise, Pearls, Pitfalls and oPinions	
American Academy of Neurology annual meeting, Toronto, ON, Canada	2010
ICU EEG Monitoring (in course “Clinical EEG”, director: J. Ebersole)	
Neurology Grand Rounds, <i>Lenox Hill Hospital, NY, NY</i>	2010
Neurology Grand Rounds, <i>Beth Israel Medical Center, NY, NY</i>	2010
7th Annual NY Symposium on Neurological Emergencies and Neurocritical Care, Manhattan:	2010
1. Continuous EEG Monitoring	
2. Status Epilepticus	
3. ICU EEG Workshop (chair)	
Epilepsy Symposium, Valley Hospital, NJ	2010
1. Seizures in the ICU: Identifying and treating sub-clinical events	
2. Algorithm for treatment of status epilepticus	
Epilepsy Foundation Symposium, Greater Baltimore Area	2010
Neurodiagnostic Monitoring in the ICU	
Neurology Grand Rounds, <i>Univ of South Florida, Tampa</i>	2010
Brain Monitoring with EEG in the Critically Ill: Promise, Pearls, Pitfalls and oPinions	
American Epilepsy Society Annual Meeting, San Antonio, TX	2010
<i>Plenary Session: Responsive Neurostimulation: Has the Future Arrived?</i> (Dir: G. Bergey)	
Southern Clinical Neurological Society annual meeting, Hawk’s Cay, FL	2011
EEG Monitoring in the ICU: When and Why	
Neuroscience in the ICU Symposium, Valley Hospital, Ridgewood, NJ	2011
Seizures in the Critically Ill	
American Clinical Neurophysiology Society annual meeting, New Orleans, LA	2011
1. Ictal Recordings: Making sense of nonsense (in symposium “How not to read an EEG” (Directors: S. Benbadis and W. Tatum)	
2. Neurophys Bowl, co-writer and co-host	
Yale Epilepsy 1 st Annual Symposium CME course, New Haven, CT	2011
What’s New in Epilepsy: Overview of the Latest Advances Status Epilepticus and EEG Monitoring Video—EEG Monitoring: When and Why SUDEP	
<i>Dartmouth Epilepsy Program Annual Retreat, Stowe, VT</i>	2011
Keynote speaker: Use of EEG Monitoring in the ICU Setting	
Neurology Grand Rounds, St. Luke’s/Roosevelt Hospital, New York, NY	2011
Diagnosing and Managing Seizures in the Critically Ill	
<i>Swedish Neuroscience Institute Epilepsy Symposium, Seattle, WA</i>	2011
Brain Monitoring in the Critically Ill	
8th Annual NY Symposium on Neurological Emergencies and Neurocritical Care, Manhattan:	2011
1. Continuous EEG Monitoring	
2. Status Epilepticus	
Neurological Update 2012, <i>University of Miami</i> annual course, Miami, FL	2012
1. Brain Monitoring with EEG in the ICU	
2. Epilepsy Update	
Medical Grand Rounds: Annual Donald P. Granger Neurology Memorial Lecture, Bridgeport Hospital, Bridgeport CT: Diagnosis and	2012

- management of seizures in the hospital and emergency department.
- American Clinical Neurophysiology Society annual meeting, San Antonio, TX 2012
1. EEG in the Detection of Non-Ictal Events (in the annual course)
 2. Co-host and co-writer, Neurophys Bowl
- Seizures in Cerebrovascular disease, Bridgeport CT 2012
- American Society of Electroneurodiagnostic Technologists (ASET) Webinar: 2012
- ICU Continuous EEG Monitoring:
1. Diseases, Traumatic Brain Injury and Encephalopathy
 2. Case presentations in CEEG ICU monitoring
- American Academy of Neurology annual meeting, New Orleans, LA 2012
- Epilepsy (in all day course on Therapy in Neurology, director: S. Fahn)
- Yale Epilepsy 2nd Annual Symposium CME course, West Haven, CT 2012
- Pitfalls in EEG interpretation
- ICU Monitoring and Status Epilepticus
- Sudden unexpected death in epilepsy (SUDEP)
- Interesting cases
- 9th Annual NY Symposium on Neurological Emergencies and Neurocritical 2012
- Care, New York, NY: Neurotelemetry: the future of brain monitoring
- Partners against Mortality in Epilepsy Conference, Chicago IL 2012
- Moderator and presenter: SUDEP: Where are we now?
- Summary of the NIH/NINDS SUDEP workshop
- American Neurological Association Annual Meeting, Boston MA 2012
- Controversies in Neurology: Continuous EEG Monitoring in the ICU:
When and why is it needed and how much is enough? (co-chair)
- International Workshop on Electroencephalography, New Orleans (SFN satellite) 2012
- Ecog: Clinical Primer
- Neuroscience Grand Rounds, Methodist Hospital, New York, NY 2012
- Seizures in the ICU
- American Clinical Neurophysiology Society annual meeting, Miami, FL 2013
- Co-director, ICU EEG Monitoring full day course
- The new ACNS critical care EEG nomenclature, in ICU EEG course
- Co-host and co-writer, Annual Neurophys Bowl
- Neurology Grand Rounds, *Harvard Longwood* neurology program, Beth Israel 2013
- Deaconess Medical Center, Boston, MA
- The emerging era of EEG neurotelemetry in the ICUs
- Neurology Grand Rounds, *University of Iowa*, Iowa City, IA 2013
- Seizures and brain monitoring in the critically ill
- Neurology Grand Rounds, *University of Pennsylvania*, Philadelphia PA 2013
- Diagnosing and Managing Seizures in the Critically Ill: Pearls,
Pitfalls, and oPinions
- Yale Epilepsy 3rd Annual Symposium CME course, West Haven, CT 2013
- Critical Care Epilepsy
- Preventing SUDEP
- Sahlie distinguished lecturer, University of Alabama at Birmingham* 2013
- Diagnosing and Managing Seizures in the Critically Ill: Pearls,
Pitfalls, and oPinions
- Neurology Grand Rounds, *The Ohio State University*, Columbus, OH 2013
- Diagnosing and Managing Seizures in the Critically Ill: Pearls,
Pitfalls, and oPinions
- Visiting Professorship, *Mayo Clinic* Dept of Neurology, Rochester MN 2013
- Including Neurology Grand Rounds: Diagnosing and
Managing Seizures in the Critically Ill:

- Pearls, Pitfalls, and Opinions”
- International Workshop on Electrocochography, San Diego CA (SFN satellite) 2013
ECOG: Clinical Primer
- American Epilepsy Society, Washington, D.C. 2013
SIG on SUDEP, co-director
Responsive Neurostimulator Workshop: The RNS System Technology:
ECoG and Data Storage
- Neurology Grand Rounds, *Washington University*, St. Louis, MO 2014
Diagnosing and Managing Seizures in the Critically Ill:
Pearls, Pitfalls, and Opinions
- American Clinical Neurophysiology Society’s annual meeting, Atlanta, GA 2014
1. Course Co-Director, ICU-EEG Monitoring
2. ICU EEG Nomenclature (in course on ICU EEG Monitoring)
3. Neurophysiology of SUDEP
- Neurology Grand Rounds, *Albert Einstein College of Medicine*, New York, NY 2014
Critical Care EEG Monitoring: A peek into the black box of the
encephalopathic brain
- Neurology Grand Rounds, *Stanford University*, Palo Alto, CA 2014
ICU EEG Monitoring: A peek into the black box of the encephalopathic
brain
- Neurology Grand Rounds, *Mt. Sinai School of Medicine*, New York, NY 2014
Critical Care EEG: A peek into the black box of the
encephalopathic brain
- Neurology Grand Rounds, *New York University*, New York, NY 2014
ICU EEG Monitoring: A peek into the black box of the
encephalopathic brain
- American Academy of Neurology annual meeting, Phila, PA 2014
1. EEG monitoring in the ICU for diagnosis and management of
status epilepticus, in symposium on “status epilepticus”
2. Debate: Critical Care EEG Monitoring, in “Controversies in
Epilepsy” symposium
- Neurology Grand Rounds, *Univ of Massachusetts*, Worcester, MA 2014
ICU EEG Monitoring: A peek into the black box of the
encephalopathic brain
- Partners Against Mortality in Epilepsy (PAME), 2nd biannual meeting, 2014
Minneapolis, MN. Moderator, co-organizer, steering committee
Cardiology and the autonomic nervous system for families,
In the “Lay Primer” session
- Yale Epilepsy 4th Annual Symposium CME course, New Haven, CT 2014
Seizures and EEG in the ICU
Interesting Cases
Advances in Epilepsy
- Optimizing the management of patients with epilepsy. Online program. 2014
Platform Q Neuroseries Live, program chair, (CME, 2 hours)
<http://www.neuroserieslive.com/cme>
- American Clinical Neurophysiology Society, Annual fall course, Boston, MA 2014
Stimulation therapy for epilepsy: RNS, DBS or VNS?
ICU EEG: Intro and historical perspective
Seizures and periodic patterns
Case discussion panel
- Neurology Grand Rounds, *Boston University*, Boston MA 2014
ICU EEG Monitoring: A peek into the black box of the

- encephalopathic brain
Neurology Grand Rounds, *Cornell University*, New York, NY 2014
ICU EEG Monitoring: A peek into the black box of the
encephalopathic brain
- 16th Annual COSBID meeting, Boston, MA 2014
Update on nonconvulsive seizures in the critically ill: prevalence,
consequences, and relation to cortical spreading depression
- American Epilepsy Society Annual meeting, Seattle, WA 2014
Annual Epilepsy Course Debate: Utility of Continuous EEG
monitoring, Monitor All vs Be Selective; in Annual
course: seizures and EEG in the critically ill patient
(plenary)
SUDEP Special Interest Group: Hot Topics in SUDEP:
Co-director and moderator
Status Epilepticus SIG: Speaker: Are we over-treating Status
Epilepticus, and especially Nonconvulsive Status?
Critical Care Monitoring SIG: Speaker: Case presentation:
Treat Aggressively
Innovation Pavilion: Selecting patients for the Responsive
Neurostimulator System: mesial temporal onset cases
- American Clinical Neurophysiology Society, annual meeting, Houston TX 2015
Co-Director, ICU EEG full day course
Patterns of Seizure Onsets & Spread, Underlying Pathological
Substrates, Surgical Outcomes in Adults; in course on “Electro-
Corticography”
Responsive Neurostimulation: An update; in symposium on “When
Surgery is not an option: neurostimulation and beyond”
CEEG interpretation: Assessment of background, sleep, reactivity
And artifacts [substituted for N. Gaspard, flight canceled]
Co-moderator and co-director, Research Highlights
- Neurology Grand Rounds, *Temple University*, Philadelphia, PA 2015
ICU EEG Monitoring: A peek into the black box of the
encephalopathic brain
- Neurology Grand Rounds, *Vanderbilt University*, Nashville, TN 2015
ICU EEG Monitoring: A peek into the black box of the
encephalopathic brain
- Yale Epilepsy 5th Annual Symposium CME course, New Haven, CT 2015
Seizures and EEG in the ICU
Interesting Cases, Part I and II
SUDEP updates
- 3rd Yale Epilepsy Center Research Retreat, Madison, CT 2015
Results of the TRENdS trial: A prospective, randomized, multicenter
trial of lacosamide vs fosphenytoin for treatment of recurrent non-
convulsive seizures.
- Epilepsy Grand Rounds, *Cleveland Clinic*, Cleveland, OH 2015
Critical Care EEG Monitoring: Updates, advances and controversies
- 9th International Workshop on Advances in Electrocorticography, Phila, PA 2015
Chronic intracranial EEG Monitoring and Responsive neurostimulation
- American Clinical Neurophysiology Society, annual meeting, Orlando, FL 2016
Electrocorticography: Patterns of Seizure Onsets & Spread, Underlying
Pathological Substrates, Surgical Outcomes in Adults; in course
on ECoG/Invasive EEG (Directors: Hirsch and Schuele)

- Continuous EEG Interpretation: The Ictal-Interictal Continuum; in course on ICU EEG Monitoring
- Responsive Neurostimulation: Choosing Parameters and Clinical Update; In course on The New Landscape of Neurostimulation: a Myriad of Choices
- A sampler from YouTube; In course on Stand-alone Home Video: A New Tool for the Diagnosis of Seizures?
- Epilepsy Lecture Series, *New York University*, New York, NY 2016
Recent advances and controversies in ICU-EEG
- Neurology Grand Rounds, *George Washington University*, Washington DC 2016
Seizures and EEG monitoring in the critically ill: a practical update
- Yale Epilepsy 6th Annual Symposium CME course, West Haven, CT 2016
Seizures and EEG in the ICU
Interesting Cases, Part I and II
- Neurology Grand Rounds, *Univ of Pittsburgh*, Pittsburgh PA 2016
Critical Care EEG Monitoring: Past, Present and Future
- Neurology Resident Lecture Series, Univ of Pittsburgh, Pittsburgh, PA 2016
Treatment of status epilepticus
- Neurology Grand Rounds, *Hartford Hospital*, Hartford CT 2016
SUDEP: Sudden Unexpected Death in Epilepsy
- Epilepsy Foundation educational session for patients/ caregivers, Hartford, CT 2016
SUDEP: Sudden Unexpected Death in Epilepsy
- American Epilepsy Society Annual Meeting 2016
Chronic intracranial EEG monitoring and responsive neurostimulation for bitemporal epilepsy, in course on Electrocorticography
Expert Debate, in the Epilepsy Therapy Symposium (plenary session)
Subclinical seizures and periodic patterns in the critically ill (with Dr. LaRoche)
Bitemporal Epilepsy, in the Responsive Neurostimulation Innovation Pavilion
- American Clinical Neurophysiology Society, annual meeting, Houston TX 2017 (Feb)
Electrocorticography: Patterns of Seizure Onsets & Spread, Underlying Pathological Substrates, and Surgical Outcomes in Adults; in course on ECog/Invasive EEG (Directors: Hirsch and Schuele)
Case discussion: Focal cortical dysplasia: invasive recordings? in course on ECog/Invasive EEG (Directors: Hirsch and Schuele)
cEEG Interpretation: Background, Reactivity, Artifacts, & ACNS Terminology; in course on ICU EEG Monitoring
Strategies in patient selection and parameter setting with Responsive Neurostimulation; in course on Neurostimulation & Networks
Patients with Refractory Status Epilepticus Should be Treated Aggressively; debate in session on Treatment of Refractory Status Epilepticus
- Neurology Grand Rounds, *University of Washington*, Seattle WA 2017 (Mar)
Critical Info on Critical Care EEG Monitoring: Detection and Protection for the Brain
- Yale Epilepsy Research Retreat : moderator; co-director; Old Saybrook, CT 2017 (Mar)
Responsive Neurostimulation All-Day Educational Program, Baltimore, MD 2017 (Apr)
Program co-moderator
- American Academy of Neurology, annual meeting, Boston MA 2017 (Apr)

- Diagnosis of Status Epilepticus by EEG Monitoring in Critically Ill Patients; in course on Status Epilepticus
Epilepsy Research Seminar, *Columbia University* 2017 (Jun)
Critical Care EEG Monitoring
- Neurology Grand Rounds, *Henry Ford Hospital*, Detroit, MI 2017 (Jun)
Critical Care EEG Monitoring: Why, when, and how
- American Society of Electroneurodiagnostic Technologists (ASET) 2017 (Oct)
EEG in the ICU
- Responsive Neurostimulation System Experts Forum, Chicago, IL 2017 (Oct)
Moderator
- Guest Speaker, Epilepsy Foundation of Northern California Physician Consortium: The Latest and Greatest in Critical Care EEG 2017 (Oct)
- Neurology Grand Rounds, *University of Wisconsin*, Madison, WI 2017 (Oct)
Critical Care EEG Monitoring: A practical update
- Neurology Grand Rounds, *Boston University*, Boston, MA 2017 (Oct)
Critical Care EEG Monitoring: A practical update
- Yale Epilepsy 7th Annual Symposium CME course, West Haven, CT 2017 (Nov)
Critical Care EEG
Interesting Cases, Epilepsy Fellows' presentations, Part I and II
- 13th International Workshop on Advances in Electrocorticography 2017 (Dec)
Washington, D.C. (AES satellite symposium): Chronic intracranial EEG monitoring and responsive neurostimulation
- Responsive Neurostimulation Dinner Symposium, Washington, D.C. (at AES) 2017 (Dec)
Chronic Intracranial EEG Recordings and How They Change Our Approach to Treatment
- Neurology Grand Rounds, *SUNY Stony Brook*, Stony Brook, NY 2018 (Jan)
Critical Care EEG Monitoring: A practical update
- American Academy of Neurology, annual meeting, Los Angeles CA 2018 (Apr)
Quantitative EEG and Guidelines for ICU VEEG Monitoring
- 31st International Congress on Clinical Neurophysiology (ICCN/ACNS 2018 (May)
Combined meeting), Washington, D.C.
Director, All day course: ICU Continuous EEG Monitoring – Joint Course of the CCEMRC and ACNS
NORSE/FIRES: new consensus definitions
Debate: nonconvulsive seizures should be aggressively treated (con)
Responsive Neurostimulation: Patient Selection and Advanced Programming Strategies
“Neurophys Bowl” co-host and writer
- Neurology Grand Rounds, *New York University*, New York, NY 2018 (May)
Critical Care EEG Monitoring: A practical update
- 46th Annual Hans Berger Clinical Neurophysiology Symposium, Richmond VA 2018 (May)
EEG of Status Epilepticus
Clinical Treatment of Status Epilepticus
- Partners Against Mortality in Epilepsy biennial meeting, Alexandria VA 2018 (Jun)
Causes of Epilepsy Mortality beyond SUDEP
- Insley Lectureship, Dept of Neurology Grand Rounds, Univ of Rochester, NY 2018 (Jun)
Update on Critical Care EEG: Pearls, Pitfalls, Promise and oPinions
- Combined meeting of the of the Electroencephalography and Clinical Neuroscience Society (ECNS), the International Society for Neuroimaging in Psychiatry (ISNIP), the International Society for Brain Electromagnetic Topography (ISBET), and the International Society for Functional Source Imaging (ISFSI). 2018 (Sept)
Pittsburgh, PA

Plenary lecture: EEG in the ICU

Invited and confirmed, not yet completed:

- Neurocritical Care Society Annual meeting, Boca Raton, FL 2018 (Sept)
Critical Care EEG workshop
NORSE symposium
American Epilepsy Society annual meeting, New Orleans, LA 2018 (Dec)
Course co-director and moderator: Epilepsy Therapy Symposium:
Practical Clinical Pearls for Advanced Outpatient Epilepsy
Management in 2019

International Invited Talks:

- Jamaica Epilepsy Association launching (ILAE branch), Kingston, **Jamaica** 2002
Keynote speaker: Epilepsy and video/EEG monitoring.
ILAE, Jamaica Epilepsy Association, Kingston, **Jamaica** 2003
1. Cardiac effects of seizures and epilepsy.
2. Seizure semiology: video case studies.
Epilepsy Research Conference, **Cayman Islands:** 2003
Clinical correlates and implications of hippocampal malformations.
American Clinical Neurophysiology Society annual meeting, Montreal, **Canada** 2004
Continuous EEG Monitoring in the Critically Ill
(in course of same name, director: L. Hirsch)
Columbia Univ CME at Sea Course: Improving Epilepsy Care through
Advances in Clinical Neuroscience, Cruise to **Bermuda** 2006
1. Cortical and subcortical networks in epilepsy: neurobiological
principles of brain stimulation
2. Heartfelt paroxysms: syncope, seizures and the brain-heart connection
3. The silent epidemic of non-convulsive seizures
Danish Epilepsy Society and Danish Clinical Neurophysiology Society Mtg,
Copenhagen, **Denmark** 2007
1. EEG Monitoring in the Critically Ill
2. What is the evidence that nonconvulsive status should be treated?
EuroNeuro Meeting, Maastricht, The **Netherlands** 2008
Silent Seizures and Continuous EEG Monitoring in the ICU
Annual Meeting of the Southern Clinical Neurology Society, **Curacao** (Dutch) 2010
New life in the fight against sudden death in epilepsy
2nd North Amer. Regional Caribbean Congress on Epilepsy, Kingston, **Jamaica** 2010
Seizures in the Critically Ill Patient
3rd London-Innsbruck Colloquium on Status Epilepticus, Oxford, **England** 2011
1. EEG Patterns in Coma and their Taxonomic Implications
2. Faculty member, Classification of nonconvulsive status epilepticus
Portuguese Soc. of Clinical Neurophysiology annual meeting, Lisbon, **Portugal** 2011
1. EEG/Brain Monitoring in the ICU
2. Brain Stimulation for Epilepsy
Portuguese Epilepsy Society and Hospital de Sao Joao, Porto, **Portugal** 2011
Neurostimulation for the treatment of epilepsy
International Society for Magnetic Resonance in Medicine Workshop on
Mapping Functional Networks for Brain Surgery, Milan, **Italy** 2011
Brain Stimulation for Epilepsy: Interrupting overactive
neuronal networks

- Canadian Neurological Sciences Federation, 47th annual mtg, Ottawa, **Canada** 2012
Plenary speaker and Gloor lecturer: Neurostimulation for medically intractable epilepsy
Epilepsy course: Status Epilepticus in Adults
Neurocritical Care course: CEEG in NeuroICU: When should we do it? Should the electrographic seizures be treated?
Canadian Society of Clinical Neurophysiologists meeting and EEG course: EEG findings during deep brain stimulation to treat medically intractable temporal lobe epilepsy
- 4th London-Innsbruck Colloquium on Status Epilepticus and Acute Seizures, 2013
Innsbruck, **Austria**
Symposium Chair and speaker:
Neurophysiology of Status Epilepticus symposium
- 30th International Epilepsy Congress, Montreal, Quebec, **Canada** 2013
Symposium Chair, Practical management of seizures in the ICU
Contestant and member of winning team, EpiQuiz
- XXIV National Meeting of the Brazilian Society of Clinical Neurophysiology, 2013
Rio de Janeiro, **Brazil**
1. Diagnosis and treatment of status epilepticus
2. ICU EEG: Indications, limitations and pitfalls
3. Brain Stimulation for Epilepsy
- Paulo Niemeyer Brain Institute, special lecture, Rio De Janeiro, **Brazil** 2013
ICU EEG Brain Monitoring
- Norwegian Clinical Neurophysiology Society Annual Meeting, Bergen, **Norway** 2013
Keynote lecture: ICU EEG: Indications, advances, limitations and pitfalls
- Visiting Professor, Prince Sultan Military Medical City (PSMMC), Riyadh, 2014
Kingdom of Saudi Arabia
1. Conventional vs. Continuous EEG in the ICU: basic principles and clinical utility
2. Controversial EEG Patterns in the ICU managing
3. Refractory status epilepticus
4. Quantitative EEG for detection of seizures, ischemia and other brain events
5. Electrocorticography: basics and newer techniques
6. Brain stimulation for epilepsy, including lessons learned from long term ambulatory intracranial EEG recordings from the responsive neuro-stimulator trials.
7. EEG Basics and How to read an EEG in the middle of the night
8. Syncope vs. seizures
9. Seizure semiology
10. Neurophys Bowl
11. Daily EEG workshops x 5 days
- 5th London-Innsbruck Colloquium on Status Epilepticus and Acute Seizures, 2015 (Apr)
London, **England**
Debate: Treating periodic discharges and related patterns after anoxia
- 5th North American Regional Caribbean Congress on Epilepsy, 2016 (Mar)
Barbados, **West Indies**
Status Epilepticus and the EEG
- American Academy of Neurology, annual meeting, Vancouver, BC, **Canada** 2016 (Apr)
Diagnosis of Status Epilepticus by EEG Monitoring in Critically Ill

- Patients; in course on Status Epilepticus
6th London-Innsbruck Colloquium on Status Epilepticus and Acute Seizures, 2017 (Apr)
Salzburg, **Austria**
NORSE/FIRES consensus definitions; in Symposium on NORSE/FIRES
Chair and moderator: NORSE/FIRES consensus definition panel
- 6th North American Regional Caribbean Congress on Epilepsy (NARCCE) 2018 (Mar)
Trinidad and Tobago: Stroke and Epilepsy

Invited and confirmed, not yet completed:

OTHER PROFESSIONAL ACTIVITIES:

Editorial:

- Guest Editor, *J Clin Neurophysiol*, 2 issues on “Critical Care Clinical Neurophysiology” 2004-5
Editorial board member, *Journal of Clinical Neurophysiology* 2006-
Editorial board member, *Epilepsy Currents* (official journal of the American Epilepsy Society) 2006-2017
Contributing writer, *Medlink.com* (multiple sections on epilepsy/status epilepticus) 2007-2016
Contributing writer, *UpToDate.com* (multiple sections on epilepsy/EEG, updated annually) 2008-
Ad-hoc peer-reviewer for:
Neurology (2007-), *Annals of Neurology* (2007-), *Journal Watch Neurology* (2006-7),
Journal of Clinical Neurophysiology (2005-), *Clinical Neurophysiology* (2006-),
European Journal of Neurology (2006-7), *Archives of Neurology/JAMA Neurology*
(2005-), *Applied Neurology* (2005), *Epilepsia* (1997-), *Expert Opinion on Drug Safety* (2004-8), *Epilepsy and Behavior* (2003-), *Epilepsy and Behavior Case Reports*, *Brain and Development* (2005), Armenian National Science and Education Fund (2005), *Epilepsy Research* (2009-2010), *Brain* (2011-), *Lancet Neurology* (2012-), *Critical Care* (2012-), *Critical Care Medicine* (2010-), *Lancet* (2012-), *PLoS One* (2015-), *Stroke* (2013-)
Ad-hoc book reviewer for *Neurology* (1999), *Lancet* (2002), and *Neurocritical Care* (2003)

Symposium/course/national meeting directorships, etc:

- Moderator, Investigator’s Workshop: Nonconvulsive Status Epilepticus and ICU EEG monitoring. American Epilepsy Society annual meeting, Boston. 2003
Director, Half-day course: Critical Care Epileptology/EEG. American Academy of Neurology annual meeting, San Francisco. 2004
Director, CME course: “Update on Epilepsy and Sleep Disorders for Neurologists”, Tarrytown, NY. 2004
Director, Half-day course: Continuous EEG Monitoring in the Critically Ill. American Clinical Neurophysiology Society annual Meeting, Montreal 2004
Director, Seminar: Critical Care Epilepsy/EEG. American Academy of Neurology annual meeting, Miami 2005
Director, Symposium: Critical Care Clinical Neurophysiology. American Academy of Clinical Neurophysiology annual meeting, Phoenix. 2005
Director, CME course: “Update on Epilepsy for Neurologists”, Saddlebrook, NJ 2005
Director, Seminar: Critical Care Epilepsy/EEG. American Academy of Neurology annual meeting, San Diego 2006

Scientific Program Chair, American Clinical Neurophysiology Society Annual Meetings, Chicago	2006
Director, Seminar: Critical Care Epilepsy/EEG. American Academy of Neurology annual meeting, Boston MA	2007
Plenary Session Co-chair, American Epilepsy Society Annual Meeting: ICU EEG Monitoring, Boston, MA	2009
Scientific Program Co-Chair: American Clinical Neurophysiology Society Annual Meeting, San Diego, CA	2010
Symposium Chair: Brain stimulation for epilepsy. American Clinical Neurophysiology Society Annual Meeting, San Diego, CA	2010
Workshop Chair: ICU EEG. 7th Annual NY Symposium on Neurological Emergencies and Neurocritical Care, Manhattan	2010
Special Interest Group Co-Chair, Sudden Unexpected Death in Epilepsy. American Epilepsy Society	2010-2015
Special Interest Group Co-chair, Critical Care Monitoring, American Clinical Neurophysiology Society, New Orleans, LA	2011
Course Co-chair, American Clinical Neurophysiology Society Annual EEG Course San Antonio, TX	2012
Conference Co-organizer and Moderator, Partners Against Mortality in Epilepsy Conference, Chicago, IL	2012
Symposium Co-chair, American Neurological Association Annual Meeting, Boston MA Controversies in Neurology: Continuous EEG Monitoring in the ICU: When and why is it needed and how much is enough?	2012
Course Co-chair, American Clinical Neurophysiology Society Annual EEG Course Miami, FL	2013
Founder, writer and co-host, American Clinical Neurophysiology Society's "Neurophys Bowl", ACNS annual meetings	2000-2013
Symposium Chair, Practical management of seizures in the ICU, 30 th International Epilepsy Congress, Montreal, Canada	2013
Contestant and winning team member, EpiQuiz, 30 th Annual International Epilepsy Congress, Montreal, Canada	2013
Poster Tour Guide, Epileptology, 30 th Annual International Epilepsy Congress, Montreal, Canada	2013
Course Co-Director, ICU-EEG Monitoring, American Clinical Neurophysiology Society's annual meeting, Atlanta, GA	2014
Contestant and winning team member, Neurophys Bowl, ACNS annual mtg, Atlanta	2014
Conference Co-organizer and Moderator, Partners Against Mortality in Epilepsy Minneapolis, MN	2014
Course Co-Director, ICU-EEG Monitoring, American Clinical Neurophysiology Society's annual meeting, Houston TX	2015
Founder and Co-moderator, Research Highlights platform session, American Clinical Neurophysiology Society annual meeting, Houston TX	2015
Mentor, ACNS professional development (senior mentor for junior faculty)	2015
Co-director and co-moderator: Yale Epilepsy Research Retreat, Westbrook, CT	2016
Course Co-Director, Electrocardiography, American Clinical Neurophysiology Society's annual meeting, Orlando FL (all-day course)	2016
Chair and moderator, NORSE/FIRES consensus definition panel. Salzburg, Austria	2017
Co-director and co-moderator: Yale Epilepsy Research Retreat, Old Saybrook, CT	2017
Course Co-Director, Electrocardiography/Invasive EEG, American Clinical Neurophysiology Society's annual meeting, Houston TX (all-day course)	2017 (Feb)
Program co-moderator, Responsive Neurostimulation All-Day Educational Program, Baltimore, MD	2017 (Apr)

Chair and moderator: NORSE/FIRES consensus definition panel, Salzburg, Austria	2017 (Apr)
Co-Director, All day course: ICU Continuous EEG Monitoring – Joint Course of the CCEMRC and ACNS, at the 31 st International Congress on Clinical Neurophysiology (ICCN/ACNS), Washington, DC	2018 (May)
“Neurophys Bowl” co-writer and co-host, 31 st International Congress on Clinical Neurophysiology (ICCN/ACNS joint meeting), Washington, DC	2018 (May)
	2018 (Dec)
Course co-director and moderator: Epilepsy Therapy Symposium: Practical Clinical Pearls for Advanced Outpatient Epilepsy Management in 2019, American Epilepsy Society annual meeting, New Orleans, LA	2018 (Dec)

Committees/Foundations/Boards/review panels:

Parents Against Childhood Epilepsy (P.A.C.E.): Medical Board Member	1999-2011
American Epilepsy Society Student and Resident Education Committee: Member	2000-2010
Epilepsy Society of Southern NY: Professional Advisory Board member	2003-2011
American Epilepsy Society Corporate Advisory Committee: Member	2003-2006
American Clinical Neurophysiology Society Scientific Program Committee: member	2004-2005
American Clinical Neurophysiology Society: Council Member	2005-2010
Awards Committee, American Clinical Neurophysiology Society: Member	2005-2006
American Epilepsy Society Student and Resident Education committee: Vice-chair	2005-2006
American Epilepsy Society Scientific Program Committee: Member	2005-2010
American Clinical Neurophysiology Society’s Critical Care Monitoring Committee: Founder and Chair (became the Critical Care EEG Monitoring Research Consortium, CCEMRC ; 50 member centers as of 2017)	2006-2011
N.I.H. review panel for “Diagnostic technologies for chemical threat Exposure” SBIR awards: Member	2006
American Epilepsy Society Student and Resident Education committee: Chair	2006-2009
Scientific work group of the SUDEP combined task force of the AES and EFA: Member	2007-2008
Organizing Committee, N.I.H. Workshop on Sudden Unexplained Death 2008 in Epilepsy (SUDEP): Member	
Professional Advisory Board, Epilepsy Society of Southern NY: Chair	2009-2011
Citizens United for Research in Epilepsy (CURE): Grant Reviewer	2010-2012
CDC/NINDS expert consultant meeting, SUDEP surveillance and research, member	2010
Platform session moderator, American Epilepsy Society annual meeting, San Antonio	2010
Poster walk moderator, American Epilepsy Society annual meeting, San Antonio	2010-11
ABRET Laboratory Accreditation Board for EEG: Reviewer	2010-12
ABRET Laboratory Accreditation Board for Long Term (Epilepsy and ICU) Monitoring: charter board member.	2010-2016
American Clinical Neurophysiology Society’s Guideline Committee: Member	2010-
American Clinical Neurophysiology Society’s Scientific Program Committee: Member	2010-
American Epilepsy Society’s Research Infrastructure Award Committee: Member	2008-2013
American Epilepsy Society’s Research Infrastructure Award Committee: Vice-Chair	2009-2010
American Epilepsy Society’s Research Infrastructure Award Committee: Chair	2010-2013
Critical Care EEG Monitoring Research Consortium : Immediate Past Chair and Executive Council member	2011-2013
Epilepsy Foundation of Connecticut, Professional Advisory Board: member	2012-
American Clinical Neurophysiology Society’s Annual Course Committee	2012-
American Academy of Neurology’s Epilepsy Section Executive Committee: member	2012-
American Epilepsy Society’s Clinical Investigator Workshop Committee: member	2013-2016
American Epilepsy Society’s Q-PULSE (“Quantitative Practical Use-Driven Learning	2013-

Survey in Epilepsy”), Expert Panel: member.	
American Academy of Neurology’s Clinical Research Training Fellowship review Committee: member	2013-2015
Critical Care EEG Monitoring Research Consortium: Past Chair and Executive Council member	2013-2015
American Clinical Neurophysiology Society’s Clinical Research Committee: Co-chair	2013-2015
American Clinical Neurophysiology Society’s Research Highlights Award committee: Co-chair	2014-2017
American Academy of Neurology’s Epilepsy Expert Review Advisory Panel: member	2015-
American Clinical Neurophysiology Society’s Development Committee: member	2016-
American Epilepsy Society’s Epilepsy Therapy Symposium: co-chair	2017-2020
American Brain Foundation’s Expert Review Panel for Epilepsy	2017-
Epilepsy Foundation’s National Professional Advisory Board: member	2018-2021

Miscellaneous:

Neurology Consultant, Columbia University Athletic Department	1998-2002
Examiner, American Board of Clinical Neurophysiology Part II (oral EEG boards)	2007
External examiner for M.D. thesis, Faculty of Medicine and Health Sciences of the Royal College of Surgeons, Ireland	2009
External ad hoc reviewer, Pilot Study Funding program, Southwest National Primate Research Center (SNPRC)	2013
Guest speaker, Epilepsy Foundation fundraising evening event, Greenwich CT	2015
Reviewer, U.S.-Israel Binational Science Foundation grants	2016
External program reviewer, Henry Ford Hospital System Epilepsy Program	2017
Yale Emerging Leaders Program, Yale School of Management, participant	2017-18
External grant reviewer, KU Leuven (University of Leuven), Research Council and IOF Council, Belgium	2018
Yale Advanced Emerging Leaders Program, Yale School of Management, participant	2018-2019

PUBLICATIONS:

(Dr. Hirsch’s preceptees in red, including students, residents, fellows, and research assistants)
* = Dr. Hirsch is final and senior author

PEER-REVIEWED MANUSCRIPTS:

1. Hirsch LJ, Spencer SS, Spencer DD, Williamson PD, Mattson RH. Temporal lobectomy in patients with bitemporal epilepsy defined by depth electroencephalography. *Ann Neurol* 1991; 30: 347-356.
2. Hirsch LJ, Spencer SS, Williamson PD, Spencer DD, Mattson RH. Comparison of bitemporal and unitemporal epilepsy defined by depth electroencephalography. *Ann Neurol* 1991; 30: 340-346.
3. Hirsch LJ, Lain AH, Walczak TS. Postictal nosewiping lateralizes and localizes to the ipsilateral temporal lobe. *Epilepsia* 1998;39:991-997.
4. Berg AT, Walczak TS, Hirsch LJ, Spencer SS. Multivariable prediction of seizure outcome one year after resective epilepsy surgery: development of a model with independent validation. *Epilepsy Research* 1998;29:185-194.
5. Hirsch LJ, Crispin D. EEG checkerboard pattern of bruxism. *Neurology*. 1999 Sep 11;53(4):669.

6. Hamberger M, *Hirsch LJ*. Effects of incorporating memory confidence ratings and language handicap modifications on intracarotid amobarbital procedure (Wada test) memory asymmetry scores. *Epilepsia* 1999 Sep;40(9):1286-91.
7. **Claassen J**, *Hirsch LJ*, Emerson RG, Bates JE, Thompson TB, Mayer SA. Continuous EEG Monitoring and Midazolam Infusion for Refractory Status Epilepticus. *Neurology* 2001;57: 1036-1042.
8. Nordli DR, Kuroda MM, *Hirsch LJ*. The ontogeny of partial seizures in infants and young children. *Epilepsia* 2001;42:986-990.
9. Nordli DR Jr, Kuroda MM, Carroll J, Koenigsberger DY, *Hirsch LJ*, **Bruner HJ**, Seidel WT, De Vivo DC. Experience with the ketogenic diet in infants. *Pediatrics* 2001;108:129-133.
10. Bazil CW, Rose A, Resor SR Jr., **Yapiclar B**, *Hirsch LJ*. Levetiracetam may be more effective for late onset partial epilepsy. *Archives of Neurology* 2002;59:1905-1908.
11. **Opherk C**, Coromilas J, *Hirsch LJ**. Heart rate and EKG changes in 102 seizures: analysis of influencing factors. *Epilepsy Research* 2002;52:117-127.
12. Dennis LJ, **Claassen J**, *Hirsch LJ*, Emerson RG, Connolly ES, Mayer SA. Nonconvulsive status epilepticus after subarachnoid hemorrhage. *Neurosurgery* 2002;51:1136-1154.
13. **McBride AE**, **Shih TT**, *Hirsch LJ**. Video-EEG monitoring in the elderly: a review of 94 patients. *Epilepsia* 2002;43:165-169.
14. **Opherk C**, *Hirsch LJ**. Ictal heart rate differentiates epileptic from non-epileptic seizures. *Neurology* 2002;58:636-638.
15. **Claassen J**, *Hirsch LJ*, Emerson RG, Mayer SA. Treatment of refractory status epilepticus with pentobarbital, propofol, or midazolam: a systematic review. *Epilepsia* 2002;43:146-153.
16. **Claassen J**, *Hirsch LJ*, Mayer SA. Treatment of Status Epilepticus: a Survey of Neurologists. *J Neurol Sci* 2003;211:37-41.
17. **Shih TT**, *Hirsch LJ**. Tonic-absence seizures: an under-recognized seizure type. *Epilepsia* 2003;44:461-465.
18. **Claassen J**, Peery S, Kreiter KT, *Hirsch LJ*, Du YE, Connolly ES, Mayer SA. Predictors and clinical impact of epilepsy after subarachnoid hemorrhage. *Neurology* 2003;60:208-14.
19. **Schevon CA**, Thompson T, *Hirsch LJ*, Emerson RG. Inadequacy of standard screen resolution for localization of seizures recorded from intracranial electrodes. *Epilepsia*. 2004;45:1453-8.
20. **Claassen J**, Mayer SA, Kowalski RG, Emerson RG, *Hirsch LJ**. Detection of electrographic seizures with continuous EEG monitoring in critically ill patients. *Neurology* 2004;62:1743-8.
21. *Hirsch LJ*, **Weintraub D**, Du YE, Buchsbaum R, **Spencer HT**, **Hager M**, **Straka T**, Bazil CW, Adams DJ, Resor SR Jr, Morrell MJ. Correlating lamotrigine serum concentrations with tolerability in patients with epilepsy. *Neurology* 2004, 63:1022-1026.

22. **Claassen J**, Hirsch LJ, Kreiter K, Du YE, Connolly ES, Emerson RG, Mayer SA. Quantitative continuous EEG for detecting delayed cerebral ischemia in patients with poor-grade subarachnoid hemorrhage. *Clin Neurophysiol* 2004;115:2699-2710.
23. Hirsch LJ, **Claassen J**, Mayer SA, Emerson RG. Stimulus-Induced Rhythmic, Periodic, or Ictal Discharges (SIRPIDs): A common EEG phenomenon in the critically ill. *Epilepsia* 2004;45:109-123.
24. Sloviter RS, Kudrimoti HS, Laxer KD, Barbaro NM, Chan SC, Hirsch LJ, Goodman RR, Pedley TA. "Tectonic" hippocampal malformations in patients with temporal lobe epilepsy. *Epilepsy Research* 2004, 59:123-153.
25. **Wittman JJ**, Hirsch LJ*. Continuous electroencephalogram monitoring in the critically ill. *Neurocritical Care* 2005;2:330-41.
26. **Weintraub D**, Buchsbaum R, Resor SR Jr, Hirsch LJ*. Effect of antiepileptic drug comedication on lamotrigine clearance. *Archives of Neurology* 2005;62:1432-1436.
27. Tay SK, Hirsch LJ, Leary L, **Jette N**, **Wittman J**, Akman CI. Nonconvulsive status epilepticus in children: clinical and EEG characteristics. *Epilepsia*. 2006 Sep;47(9):1504-9.
28. **Malik S**, **Arif H**, Hirsch LJ*. Lamotrigine and its applications in the treatment of epilepsy and other neurological and psychiatric disorders. *Expert Rev Neurother* 2006 Nov;6(11):1609-27.
29. McClelland S III, Garcia RE, Peraza DM, Shih TT, Hirsch LJ, Hirsch J, Goodman RR. Facial emotion recognition following curative nondominant temporal lobectomy in patients with mesial temporal sclerosis. *Epilepsia* 2006;47:1337-1342.
30. **Claassen J**, Hirsch LJ, Frontera JA, Fernandez A, Schmidt M, **Kapinos G**, **Wittman J**, Connolly ES, Emerson RG, Mayer SA. Prognostic significance of continuous EEG monitoring in patients with poor grade subarachnoid hemorrhage. *Neurocrit Care* 2006;4(2):103-12.
31. **Robakis T**, Hirsch LJ*. Literature review, case report and expert discussion of prolonged refractory status epilepticus. *Neurocrit Care* 2006;4(1):35-46.
32. **Vanpassel L**, **Arif H**, Hirsch LJ*. Topiramate for the treatment of epilepsy and other nervous system disorders. *Expert Rev Neurotherapeutics* 2006;6(1):19-31.
33. Hirsch LJ, **Weintraub D**, Buchsbaum R, **Spencer HT**, **Straka T**, **Hager M**, Resor SR Jr. Predictors of lamotrigine-associated rash. *Epilepsia* 2006;47(2):318-322.
34. **Claassen J**, **Jette N**, **Chum F**, **Green R**, Schmidt M, Choi H, **Jirsch J**, **Frontera JA**, Connolly ES, Emerson RG, Mayer SA, Hirsch LJ*. Electrographic seizures and periodic discharges after intracerebral hemorrhage. *Neurology* 2007;69(13):1356-1365.
35. **Claassen J**, Bateman BT, Willey JZ, Inati S, Hirsch LJ, Mayer SA, Sacco RL, Schumacher HC. Generalized convulsive status epilepticus after nontraumatic subarachnoid hemorrhage: the nationwide inpatient sample. *Neurosurgery* 2007; 61(1): 60-4; discussion 64-5.
36. **Jirsch J**, Hirsch LJ*. Nonconvulsive seizures: developing a rational approach to the diagnosis and management in the critically ill population. *Clin Neurophysiology* 2007;118(8):1660-70.

37. Hirsch LJ, Arif H, Buchsbaum R, Weintraub DB, Lee J, Chang JT, Resor SR Jr., Bazil CW. Effect of Age and Comedication on Levetiracetam Pharmacokinetics and Tolerability. *Epilepsia* 2007;48(7): 1351-9.
38. Bateman BT, Claassen J, Willey JZ, Hirsch LJ, Mayer SA, Sacco RL, Schumacher HC. Convulsive status epilepticus after ischemic stroke and intracerebral hemorrhage: frequency, predictors, and impact on outcome in a large administrative dataset. *Neurocrit Care* 2007;7(3):187-93.
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40. Smolowitz J, Hopkins SC, Perrine T, Eck K, Hirsch LJ, Munding MO. Diagnostic Utility of an Epilepsy Monitoring Unit. *Am J Medical Quality*. 2007; 22(2):117-122.
41. Arif H, Buchsbaum R, Weintraub D, Koyfman S, Salas-Humara C, Bazil CW, Resor SR Jr, Hirsch LJ*. Comparison and predictors of rash associated with 15 antiepileptic drugs. *Neurology* 2007; 1701-1709.
42. Jette N, Claassen J, Emerson RG, Hirsch LJ*. Frequency and predictors of nonconvulsive seizures during continuous electroencephalographic monitoring in critically ill children. *Arch Neurol* 2006 Dec;63(12):1750-5.
43. Weintraub D, Buchsbaum R, Resor SR Jr., Hirsch LJ*. Psychiatric and behavioral side effects of the newer antiepileptic drugs in adults with epilepsy. *Epilepsy Behav*, 2007;10:105-110.
44. Hirsch LJ, Arif H, Nahm EA, Buchsbaum R, Resor SR Jr., Bazil CW. Cross-sensitivity of skin rashes with antiepileptic drug use. *Neurology* 2008;71(19):1527-1534.
45. Carrera E, Claassen J, Oddo M, Emerson RG, Mayer SA, Hirsch LJ*. Continuous electroencephalographic monitoring in critically-ill patients with central nervous system infections. *Arch Neurol* 2008;65(12):1612-1618.
46. Montenegro MA, Arif H, Nahm EA, Resor Jr SR, Hirsch LJ*. Efficacy of clobazam as add-on therapy for refractory epilepsy: Experience at a US epilepsy center. *Clin Neuropharmacol* 2008;31(6):333-338.
47. Hirsch LJ, Pang T, Claassen J, Chang C, Abou Khaled K, Wittman J, Emerson RG. Focal motor seizures induced by alerting stimuli in critically ill patients. *Epilepsia* 2008;49:968-73.
48. Friedman DE, Schevon C, Emerson RG, Hirsch LJ*. Cyclic electrographic seizures in critically ill patients. *Epilepsia* 2008 Feb;49(2):281-7.
49. Arif H, Buchsbaum R, Weintraub D, Piero J, Resor Jr SR, Hirsch LJ*. Patient-reported cognitive side effects of antiepileptic drugs (AEDs): Predictors and comparison of all commonly used AEDs. *Epilepsy Behav* . 2009 Jan;14(1):202-9.
50. Oddo M, Carrera E, Claassen J, Mayer SA, Hirsch LJ*. Continuous Electroencephalography in the Medical Intensive Care Unit. *Crit Care Med* 2009 Jun;37(6):2051-6.
51. Varghese G, Purcaro MJ, Motelow JE, Enev M, McNally KA, Levin AR, Hirsch LJ, Tikofsky R, Paige AL, Zubal IG, Spencer SS, Blumenfeld H. Clinical use of ictal SPECT in secondarily generalized tonic-clonic seizures. *Brain* 2009 Aug;132(Pt 8):2102-13.

52. Blumenfeld H, Varghese G, Purcaro MJ, Motelow JE, Enev M, McNally KA, Levin AR, *Hirsch LJ*, Tikofsky R, Zubal IG, Paige AL, Spencer SS. Cortical and subcortical networks in human secondarily generalized tonic-clonic seizures. *Brain* 2009 Apr;132(Pt 4):999-1012.
53. **Friedman D**, Claassen J, *Hirsch LJ**. Continuous electroencephalogram monitoring in the intensive care unit. *Anesth Analg* 2009 Aug;109(2):506-23.
54. Waziri A, Claassen J, Stuart RM, **Arif H**, Schmidt JM, Mayer SA, Badjatia N, Kull LL, Connolly ES, Emerson RG, *Hirsch LJ**. Intracortical electroencephalography in acute brain injury. *Ann Neurol* 2009 Apr;66(3): 366-377.
55. **Friedman DE**, *Hirsch LJ**. How long does it take to make an accurate diagnosis in an epilepsy monitoring unit? *J Clin Neurophysiol* 2009 Aug;26(4):213-7.
56. Stuart RM, Schmidt M, Kurtz P, Waziri A, Helbok R, Mayer SA, Lee K, Badjatia N, *Hirsch LJ*, Connolly ES, and Claassen J. Intracranial Multimodal Monitoring for Acute Brain Injury: A Single Institution Review of Current Practices. *Neurocrit Care* 2010 Apr;12(2):188-98.
57. **Arif H**, Buchsbaum R, **Piero J**, **Whalen M**, **Sims J**, Resor SR Jr, Bazil CW, *Hirsch LJ**. Comparative effectiveness of 10 antiepileptic drugs in older adults with epilepsy. *Arch Neurol* 2010 Apr;67(4):408-15.
58. Abend NS, Dlugos DJ, Hahn CD, *Hirsch LJ*, Herman ST. Use of EEG monitoring and management of non-convulsive seizures in critically ill patients: A survey of neurologists. *Neurocrit Care* 2010 Jun;12(3):382-9.
59. Stuart RM, Waziri A, **Weintraub D**, Schmidt MJ, Fernandez L, Helbok R, Kurtz P, Lee K, Badjatia N, Emerson RG, Mayer SA, Connolly ES, *Hirsch LJ*, Claassen J. Intracortical EEG for the Detection of Vasospasm in Patients with Poor-Grade Subarachnoid Hemorrhage. *Neurocrit Care* 2010 Dec;13(3):355-8.
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61. Morrell MJ; RNS System in Epilepsy Study Group. Responsive cortical stimulation for the treatment of medically intractable partial epilepsy. *Neurology* 2011;77:1295-304.
62. **Bausell R**, **Svoronos A**, Lennihan L, *Hirsch LJ**. Recovery after severe refractory status epilepticus and 4 months of coma. *Neurology* 2011;77(15):1494-5.
63. **Arif H**, **Svoronos A**, Resor SR Jr, Buchsbaum R, *Hirsch LJ**. The effect of age and comedication on lamotrigine clearance, tolerability, and efficacy. *Epilepsia* 2011;52(10): 1905-13.
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65. **Mani R**, **Arif H**, *Hirsch LJ*, Gerard EE, LaRoche SM. Interrater reliability of ICU EEG research terminology. *J Clin Neurophysiol* 2012;29(3):203-12.
66. **Foreman B**, Claassen J, **Abou Khaled K**, **Jirsch J**, **Alschuler DM**, **Wittman J**, Emerson RG, *Hirsch LJ**. Generalized periodic discharges in the critically ill: a case control study of 200 patients. *Neurology* 2012;79(19):1951-1960.

67. Bauerschmidt A, Koshkelashvili N, Ezeani CC, **Yoo JY**, **Zhang Y**, **Manganas LN**, Kapadia K, Palenzuela D, Schmidt CC, Lief R, Kiely B, Choezom T, McClurkin M, Shorten A, Detyniecki K, *Hirsch LJ*, Giacino JT. Prospective assessment of ictal behavior using the revised Responsiveness in Epilepsy Scale (RES-II). *Epilepsy and Behavior* 2012;26(1):25-28.

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68. Tomson T, *Hirsch LJ*, Friedman D, Bester N, Hammer A, Irizarry M, Ishihara L, Krishen A, Spaulding T, Wamil A, Leadbetter R. Sudden unexpected death in epilepsy in lamotrigine randomized-controlled trials. *Epilepsia* 2013;54(1):135-40.
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71. Kilbride RD, **Reynolds AS**, Szaflarski JP, *Hirsch LJ** and the **Critical Care EEG Monitoring Research Consortium**. Clinical outcomes following prolonged refractory status epilepticus (PRSE). *Neurocrit Care* 2013;18(3):374-85.
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73. **Gaspard N**, **Foreman B**, Judd LM, Brenton JN, Nathan BR, McCoy BM, Al-Otaibi A, Kilbride R, Fernández IS, Mendoza L, Samuel S, **Zakaria A**, Kalamangalam GP, Legros B, Szaflarski JP, Loddenkemper T, Hahn CD, Goodkin HP, Claassen J, *Hirsch LJ*, Laroche SM, and the **Critical Care EEG Monitoring Research Consortium**. Intravenous ketamine for the treatment of refractory status epilepticus: A retrospective multicenter study. *Epilepsia* 2013;54(8):1498-503.
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77. **Gaspard N**, **Manganas L**, Rampal N, Petroff OA, *Hirsch LJ**. Similarity of Lateralized Rhythmic Delta Activity to Periodic Lateralized Epileptiform Discharges in Critically Ill Patients. *JAMA Neurol* 2013 Oct;70(10):1288-95.

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78. Baranoski JF, Grant RA, *Hirsch LJ*, Visintainer P, Gerrard JL, Günel M, Matouk CC, Spencer DD, Bulsara KR. Seizure control for intracranial arteriovenous malformations is directly related to treatment modality: a meta-analysis. *J Neurointerv Surg* 2014 Nov;6(9):684-90.
79. **Fernandez A**, Lantigua H, Lesch C, Shao B, **Foreman B**, Schmidt JM, *Hirsch LJ*, Mayer SA, Claassen J. High Dose Midazolam Infusion for Refractory Status Epilepticus. *Neurology* 2014;82:1-7.
80. Kurtz P, **Gaspard N**, Wahl AS, Bauer RM, *Hirsch LJ*, Wunsch H, Claassen J. Continuous electroencephalography in a surgical intensive care unit. *Intensive Care Med* 2014;40(2):228-34.
81. **Yoo JY**, Farooque P, Chen WC, Youngblood MW, Zaveri HP, Gerrard JL, Spencer DD, *Hirsch LJ*, Blumenfeld H. Ictal spread of medial temporal lobe seizures with and without secondary generalization: An intracranial electroencephalography analysis. *Epilepsia* 2014;55(2):289-95
82. **Yoo JY**, Rampal N, Petroff OA, *Hirsch LJ*, **Gaspard N**. Brief Potentially Ictal Rhythmic Discharges in Critically Ill Adults. *JAMA Neurol* 2014;71(4):454-62.
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109. **Ezeani C**, Detyniecki K, Bauerschmidt A, *Hirsch LJ*, Duckrow RB, Winstanley S, Blumenfeld H. Accuracy of patients' seizure reporting during video EEG monitoring. Poster presentation at the American Epilepsy Society annual meeting, San Diego CA 2012.
110. **Yoo JY**, Youngblood M, Quraishi I, Chen W, Zaveri HP, *Hirsch LJ*, Blumenfeld H. Onset and propagation of temporal lobe seizures with vs without secondary generalization: An intracranial EEG analysis. Poster presentation at the American Epilepsy Society annual meeting, San Diego CA 2012.
111. Bauerschmidt A, Koshkelashvili N, Kiely BT, **Ezeani CC, Yoo JY, Zhang Y, Manganas LN**, Kratochvil Z, Rojas L, McPherson A, Kapadia K, Palenzuela D, Schmidt CP, Lief R, *Hirsch LJ*, Detyniecki K, Giacino JC, Blumenfeld H. The revised Responsiveness in Epilepsy Scale (RES-II): An improved tool for assessment of ictal impairment. Poster presentation at the American Epilepsy Society annual meeting, San Diego CA 2012.
112. **Gaspard N**, Judd LM, McCoy B, Al-Otaibi A, Hahn CD, Kilbride R, Sanchez Fernandez I, Loddenkemper T, Mendoza LC, Szaflarski JP, *Hirsch LJ*, LaRoche SM and the **Critical Care EEG Monitoring Research Consortium**. IV ketamine for refractory status epilepticus: a retrospective multicenter study from the **ICU EEG Research Consortium**. Poster presentation at the American Epilepsy Society annual meeting, San Diego CA 2012.

113. *Hirsch LJ, Manganas L, Rampal N, Petroff OA, Gaspard N.* Lateralized rhythmic delta activity: clinical correlates and comparison with focal polymorphic slowing and PLEDs. Poster presentation at the American Epilepsy Society annual meeting, San Diego CA 2012.
114. *Yoo JY, Gaspard N, Rampal N, Petroff OA, Hirsch LJ.* Brief ictal rhythmic discharges (BIRDs) in the critically ill. *J Clin Neurophysiol* 2013;30:218. Presented at the American Clinical Neurophysiology Society's annual meeting, Miami, FL 2013.
115. *Gaspard N, Rampal N, Petroff OA, Hirsch LJ.* Lateralized infraslow oscillations on scalp EEG in acute brain injury. *J Clin Neurophysiol* 2013;30:227. Presented at the American Clinical Neurophysiology Society's annual meeting, Miami, FL 2013.
116. *Manganas LN, Gaspard N, Hirsch LJ.* LPD modifiers and seizure risk in critical care patients. *J Clin Neurophysiol* 2013;30:220. Presented at the American Clinical Neurophysiology Society's annual meeting, Miami, FL 2013.
117. *Tu B, Chong DJ, Hirsch LJ.* QEEG analysis reveals changes evoked by intranasal midazolam in intracranial recordings. *J Clin Neurophysiol* 2013;30:219. Presented at the American Clinical Neurophysiology Society's annual meeting, Miami, FL 2013.
118. *Javed A, Hirsch LJ, Ezeani CC, Buchsbaum R, Detyniecki K, Cohen B, Philander S, Meyers AC, Dempsey K, Choi H.* Efficacy, tolerability and retention rates in 200 patients with epilepsy treated with lacosamide. Presented at the International Epilepsy Congress, Montreal, Canada, 2013.
119. *Chen B, Detyniecki K, Hirsch LJ.* Cross-sensitivity of adverse psychiatric and behavioral effects with antiepileptic drug use. Presented at the International Epilepsy Congress, Montreal, Canada, 2013.
120. *Gilmore EJ, Breteler MJM, Hirsch LJ, Zaveri H, Gaspard N.* Early quantitative EEG findings correlate with neurological dysfunction, hemodynamics and predict outcome in patients with severe sepsis. *Neurocrit Care* 2013;19:S5. Presented as platform presentation in Philadelphia, PA, 2013.
121. *Alkawadri R, Gaspard N, Zaveri H, Goncharova I, Spencer DD, Alexopolous A, So N, Hirsch LJ*.* High frequency oscillations in non-epileptogenic cortex. Presented at the American Epilepsy Society annual meeting, Washington, DC, 2013.
https://www.aesnet.org/meetings_events/annual_meeting_abstracts/
122. *Gaspard N, Foreman B, Haas K, Jongeling A, Kaplan P, Lee J, Schmitt S, Szaflarski J, Westover MB, Hirsch LJ, Laroche S.* New-onset refractory status epilepticus: early clinical and electroencephalographic clues to the identification of etiology. Presented at the American Epilepsy Society annual meeting, Washington, DC, 2013.
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123. *Farooque P, Duckrow RB, Hirsch LJ, Spencer DD, Pan J.* Assessment of the mesial temporal lobe with 7T mrsi for the consideration of dual pathology. Presented at the American Epilepsy Society annual meeting, Washington, DC, 2013.
https://www.aesnet.org/meetings_events/annual_meeting_abstracts/
124. *Choi H, Hirsch LJ, Hayat M, Javid A, Zhang G, Heiman G.* Seizure trajectories in drug-resistant epilepsy: a cohort study. Presented at the American Epilepsy Society annual meeting, Washington, DC, 2013.
https://www.aesnet.org/meetings_events/annual_meeting_abstracts/
125. *W. Chen, A. Bauerschmidt, M. W. Youngblood, C. Cunningham, N. Li, R. Gebre, M. Johnson, E. Chen, P. Vitkovskiy, Y. Baykara, D. Kluger, C. Ezeani, Z. Kratochvil, J. Bronen, J. Thomson, K. Riordan, J. Yoo, R. Shirka, L. Manganas, L. Hirsch, H. Blumenfeld.* Driving with epilepsy: a prospective study using a driving simulator during clinical and subclinical seizures. Presented at the American Epilepsy Society annual meeting, Washington, DC, 2013.
https://www.aesnet.org/meetings_events/annual_meeting_abstracts/
126. *Chen B, Detyniecki K, Javid A, Buchsbaum R, Choi H, Hirsch LJ*.* Cross-sensitivity of adverse cognitive effects with antiepileptic drug use. Presented at the American Epilepsy Society annual meeting, Washington, DC, 2013.
https://www.aesnet.org/meetings_events/annual_meeting_abstracts/
127. *Joshi R, M. Pavlova, R. Duckrow, J. Gerrard, D. Spencer, L. Hirsch, H. Zaveri.* Evidence for a multi-night improving trend in sleep during intracranial EEG monitoring. Presented at the American Epilepsy Society annual meeting, Seattle WA, 2014.
128. *Sainju R, L. Manganas, E. Gilmore, O. Petroff, N. Rampal, L. Hirsch, N. Gaspard.* Clinical Correlates And Outcome Of Lateralized Periodic Discharges In Patients Without Acute Brain Injury: A Case-Control Study. Presented at the American Epilepsy Society annual meeting, Seattle WA, 2014.

129. **Figueroa LF Pinto**, E. Gilmore, O. Petroff, N. Rampal, *L. Hirsch*, N. Gaspard. Clinical Correlates and Outcome of Cyclic Seizures in Critically Ill Patients: a Case-control Study. Presented at the American Epilepsy Society annual meeting, Seattle WA, 2014.
130. **Gaspard N**, B. Foreman, V. Alvarez, C. M. Cabrera Kang, Probasco, A. Jongeling, E. Meyers, K. Haas, A. Espinera, S. Schmitt, E. Gerard, T. Gofton, P. Kaplan, J. Lee, B. Legros, J. Szaflarski, M. Westover, S. Laroche, *L. Hirsch**. New-Onset Refractory Status Epilepticus: Etiology And Outcome In a Retrospective Series of 121 Cases. Presented at the American Epilepsy Society annual meeting, Seattle WA, 2014.
131. Cabrera Kang CM, S. M. Laroche, B. Foreman, V. Alvarez, J. Probasco, A. Jongeling, E. Meyers, K. Haas, S. E. Schmitt, E. Gerard, T. Gofton, P. W. Kaplan, J. Lee, B. Legros, J. P. Szaflarski, M. Westover, *L. J. Hirsch*, **N. Gaspard**. New-onset refractory status epilepticus: immune modulatory therapy and outcome. Presented at the American Epilepsy Society annual meeting, Seattle WA, 2014.
132. Punia V, P. Farooque, W. Chen, *L. Hirsch*, A. Berg, H. Blumenfeld. Factors influencing driving impairment in persons with refractory epilepsy. Presented at the American Epilepsy Society annual meeting, Seattle WA, 2014. (platform session; press room highlights; Dreifuss Honor award)
133. Farooque P, *L. Hirsch*, S. Levy, F. Testa, R. Mattson, H. Zaveri, J. Bonito, D. Spencer. Surgical outcome in adolescents with mesial temporal sclerosis (MTS): Is it different than Adults? Presented at the American Epilepsy Society annual meeting, Seattle WA, 2014.
134. Moeller J, A. Legge, K. Detyniecki, *L. Hirsch*, R. Buchsbaum, H. Choi. Changes in antiepileptic drug prescribing patterns in a large, tertiary-care epilepsy center (2000-2011). Presented at the American Epilepsy Society annual meeting, Seattle WA, 2014.
135. Detyniecki K, **B. Chen**, H. Choi, *L. Hirsch*, R. Buchsbaum, K. Kato, A. Legge. Predictors of seizure clusters. Presented at the American Epilepsy Society annual meeting, Seattle WA, 2014.
136. **Chen B**, K. Detyniecki, *L. Hirsch*, R. Buchsbaum, H. Choi. Adverse visual side effects of antiepileptic drugs in adults with epilepsy. Presented at the American Epilepsy Society annual meeting, Seattle WA, 2014.
137. Alkawadri R, H. Zaveri, R. Duckrow, D. Spencer, J. Gerrard, *L. Hirsch**. (DYS) Functional Connectivity Of The Seizure Onset Zone: Low Frequency Stimulation And Cortico-Cortical Evoked Responses Study. Presented at the American Epilepsy Society annual meeting, Seattle WA, 2014.
138. **Choezom T**, **S. Zhang**, S. Radhakrishna, J. Bonito, H. Zaveri, R. Joshi, *L. Hirsch*, K. Detyniecki. Defining The Prevalence And Characteristics Of Seizure Clusters. Presented at the American Epilepsy Society annual meeting, Seattle WA, 2014.
139. **Sivaraju A**, Gilmore EJ, Moeller JJ, Greer DM, *Hirsch LJ*, **Gaspard N**. The time course and prognostic values of EEG patterns after anoxic brain injury. *J Clin Neurophysiol* 2015;32(4): 391. Presented at the annual meeting of the American Clinical Neurophysiology Society, Houston TX, 2015.
140. Alkawadri R, Zaveri HZ, Gerrard JL, *Hirsch LJ*, Spencer DD. Passive intracranial EEG based localization of the central sulcus during sleep. Presented at the annual meeting of the American Clinical Neurophysiology Society, Houston TX, 2015.
141. A. W. Legge, K. Detyniecki, *L. Hirsch*, R. Buchsbaum, S. Harris, K. Kato, L. Tibbetts, **B. Chen**, H. Choi. Assessing Relationships Between Clobazam Serum Level, Daily Dose, and Toxicity. Presented at the annual meeting of the American Epilepsy Society, Philadelphia, PA, 2015.
142. Andres Rodriguez, Jan Vlachy, Jong Woo Lee, Emily Gilmore, Turgay Ayer, Hiba Arif, Nicolas Gaspard, *Lawrence Hirsch*, Suzette Laroche. Periodic and Rhythmic Patterns in the critically ill: characteristics associated with seizures. Presented at the annual meeting of the American Epilepsy Society, Philadelphia, PA, 2015.
143. **T. Choezom**, S. Zhang, **C. Ma**, R. Joshi, H. Zaveri, A. Komaragiri, **B. Weiss**, J. Bonito, *L. Hirsch*, K. Detyniecki. The Yale Seizure Cluster Study: Prevalence, Treatment, and Consequences. Presented at the annual meeting of the American Epilepsy Society, Philadelphia, PA, 2015.
144. **B. Chen**, K. Detyniecki, H. Choi, **A. D. Katz**, *L. Hirsch*, A. W. Legge, K. Kato, L. Tibbetts, S. Harris, R. Wong, A. Jiang, **A. Ullah**, R. Ha, N. Maloney, **A. Komaragiri**, A. Javed, R. Buchsbaum, P. Farooque. Psychiatric and behavioral side effects in adolescents and children with epilepsy. Presented at the annual meeting of the American Epilepsy Society, Philadelphia, PA, 2015.

145. **A. D. Katz**, K. Detyniecki, *L. Hirsch*, **B. Chen**, **A. Ullah**, A. Jiang, R. Wong, **A. Komaragiri**, A. Legge, A. Javed, R. Buchsbaum, H. Choi. Comparative Efficacy by Lobe of 13 Antiepileptic Drugs in almost 2000 Adults with Focal Epilepsy. Presented at the annual meeting of the American Epilepsy Society, Philadelphia, PA, 2015.
146. W. Tatum, *L. Hirsch*, C. David, A. Blum, J. Pollard, C. LaFrance, J. Hixon, J. Draskowski, S. Benbadis, D. Carvalho, E. Okazaki, I. Marin Collazo, A. Lopez Chiriboga, E. Coonan, G. Cascino. Outpatient Smartphone Videos in Epilepsy (OSmartVie): Initial Results. Presented at the annual meeting of the American Epilepsy Society, Houston TX, 2016.
147. **M. Dhakar**, T. Youn, A. Sivaraju, N. Rampal, N. Gaspard, D. Greer, *L. Hirsch*, E. Gilmore. Characteristics and Prognostic Significance of Post Anoxic Myoclonus. Presented at the annual meeting of the American Epilepsy Society, Houston TX, 2016.
148. K. Krzesowik, G. Ramiro, S. Levy, F. Testa, R. Mattson, C. Cardoza, *L. Hirsch*, D. Spencer, P. Farooque. Life Five Years after Medial Temporal Lobectomy in Adolescents. Presented at the annual meeting of the American Epilepsy Society, Houston TX, 2016.
149. K. Kato, G. Fahimi, Q. Wang, K. Detyniecki, *L. Hirsch*, R. Wong, A. Jiang, R. Buchsbaum, H. Choi. Clinical Experience with Perampanel. Presented at the annual meeting of the American Epilepsy Society, Houston TX, 2016.
150. G. Fahimi, Q. Wang, *L. Hirsch*, A. Jiang, R. Wong, R. Buchsbaum, K. Kato, H. Choi, K. Detyniecki. Effectiveness of Eslicarbazepine at Two Tertiary Epilepsy Centers. Presented at the annual meeting of the American Epilepsy Society, Houston TX, 2016.
151. Q. Wang, K. Kato, R. Wong, A. Jiang, R. Buchsbaum, H. Choi, *L. Hirsch*, K. Detyniecki. Effect of Ethnicity on the Pharmacokinetics of 10 Antiepileptic Drugs. Presented at the annual meeting of the American Epilepsy Society, Houston TX, 2016.
152. R. Gebre, **M. Dhakar**, **E. Grover**, I. Quraishi, E. Sternberg, I. George, A. Sivaraju, J. Bonito, H. Zaveri, L. Gober, S. Ahammad, S. Ghoshal, P. Farooque, *L. Hirsch*, D. Spencer, J. Gerrard, H. Blumenfeld. Intracranial Markers of Loss of Consciousness in Frontal Lobe Seizures. Presented at the annual meeting of the American Epilepsy Society, Houston TX, 2016.
153. L. Gober, Y. Si, G. Touloumes, W. Chen, A. Bauerschmidt, M. Youngblood, C. Cunningham, C. Ezeani, Z. Kratochvil, J. Bronen, J. Thomson, **K. Riordan**, **J. Yoo**, **R. Shirka**, **L. Manganas**, *L. Hirsch*, H. Blumenfeld. Testing of Patients with Epilepsy on Driving Simulation during Inpatient Video/EEG Monitoring. Presented at the annual meeting of the American Epilepsy Society, Houston TX, 2016.
154. E. Tyrtova, S. Bandt, A. Sivaraju, A. Huttner, J. Bonito, *L. Hirsch*, J. Kennard, D. Spencer, P. Farooque. Intracranial Electrographic Patterns of Focal Cortical Dysplasia Subtypes as Defined by Three-Tiered ILAE Classification System. Presented at the annual meeting of the American Epilepsy Society, Houston TX, 2016.
155. **Dhakar MB**, **Blond B**, Youn TS, Rampal N, Gaspard N, Greer D, *Hirsch LJ*, Gilmore EJ, Sivaraju A. EEG characteristics and prognosis of patients with early postanoxic myoclonus. *J Clin Neurophysiology* 2017;34:269. Presented at the annual meeting of the American Clinical Neurophysiology Society, Phoenix, AZ, 2017.
156. **Blond B**, **Maciel C**, **Dhakar MB**, **Fu A**, Landreneau M, **Sheikh Z**, Gilmore EJ, Rampal N, Petroff OA, Scheuer ML, *Hirsch LJ**. Clinical, raw and quantitative EEG correlates of acute increased intracranial pressure—a study of two cases. *J Clin Neurophysiology* 2017;34:281. Presented at the annual meeting of the American Clinical Neurophysiology Society, Phoenix, AZ, 2017.
157. Galluzz DR, Gilmore EJ, Pereira S, Falcone G, *Hirsch LJ*, Sheth K. GRDA: A benign EEG finding in hospitalized patients? *Neurocrit Care* 2017 27:S12. Presented at the 15th annual meeting of the Neurocritical Care Society, Waikoloa, Hawaii, 2017.
158. Stretz C, **Sheikh Z**, **Maciel CM**, Petroff OA, Rampal N, Sansing LH, Sheth KN, *Hirsch LJ*, Gilmore EJ. Hyperexcitability and seizures in primary intraventricular hemorrhage. *Neurocrit Care* 2017 27:S347. Presented at the 15th annual meeting of the Neurocritical Care Society, Waikoloa, Hawaii, 2017.
159. **Owusu K**, **Maciel CM**, Beekman R, Babi MA, Robinson C, Busl K, Youn TS, Nussbaum I, Rampal N, **Sheikh Z**, Gilmore EJ, *Hirsch LJ**. Pearls and pitfalls of introducing ketogenic diet in status epilepticus: a practical guide for the neurointensivist. *Neurocrit Care* 2017 27:S355. Presented at the 15th annual meeting of the Neurocritical Care Society, Waikoloa, Hawaii, 2017.
160. Tatum WO, *Hirsch LJ*, Duckrow RB, Chen D, Gelfand M, Blum A, Hixson J, LaFrance W, Draskowski J, Benbadis SR, Cascino GD. Outpatient smartphone videos for classifying epileptic and non-epileptic seizures. www.aesnet.org Presented at the annual meeting of the American Epilepsy Society, Washington, DC, 2017. Abstract #3.161.

161. Mazur RD, Wang Q, Agboola O, Detyniecki K, *Hirsch LJ*, Kato K, Buchsbaum R, Choi H. Effectiveness of levetiracetam monotherapy in pediatric patients with epilepsy. www.aesnet.org Presented at the annual meeting of the American Epilepsy Society, Washington, DC, 2017. Abstract #3.281.
162. Coonan EE, *Hirsch LJ*, Duckrow RB, Chen D, Gelfand M, Blum A, Hixson J, LaFrance W, Draskowski J, Benbadis SR, Cascino G, Tatum WO. Outpatient smartphone videos in epilepsy (osmartvie): initial results of video quality. www.aesnet.org Presented at the annual meeting of the American Epilepsy Society, Washington, DC, 2017. Abstract #3.070.
163. Zaveri H, Pincus S, Goncharova II, Munbodh R, Alkawadri R, Gerrard JL, Duckrow RB, *Hirsch LJ*, Spencer DD, Spencer SS. There is greater interictal band related local functional connectivity in patients with excellent outcome to surgery in comparison to those with poorer outcome. www.aesnet.org Presented at the annual meeting of the American Epilepsy Society, Washington, DC, 2017. Abstract #2.058.
164. Hua A, Bonito J, *Hirsch LJ*, Detyniecki K, Levy S, Testa F, Jafarpour S, Gainza-Lein M, Benjamin R, Pearl P, Loddenkemper T. Health-related quality of life in pediatric patients with seizure clusters: the Harvard-Yale pediatric epilepsy cluster study. www.aesnet.org Presented at the annual meeting of the American Epilepsy Society, Washington, DC, 2017. Abstract #2.411.
165. Joshi RB, Goncharova II, Duckrow RB, Gerrard JL, Spencer DD, *Hirsch LJ*, Godwin DW, Zaveri H. The effect of antiepileptic drug taper, day/night cycles, and seizure on low-frequency modulatory activity in the intracranial EEG. www.aesnet.org Presented at the annual meeting of the American Epilepsy Society, Washington, DC, 2017. Abstract #2.144.
166. Mercier MR, *Hirsch LJ*, Duckrow RB, Quraishi I. Early changes in responsive neurostimulator detection rates after introduction of anti-seizure drugs predict efficacy. www.aesnet.org Presented at the annual meeting of the American Epilepsy Society, Washington, DC, 2017. Abstract #2.064.
167. Mercier M, *Hirsch LJ*, Duckrow RB, Quraishi I. Early Changes in Responsive Neurostimulator detection rates after introduction of anti-seizure drugs predict efficacy. Presented at the 31st International Congress of Clinical Neurophysiology, Washington, DC, May 2018. Abstract T08.
168. **Osman GM, Rahangdale R**, Britton J, Gilmore E, Haider HA, Hantus S, Herlopian A, Hocker S, Lee JW, Legros B, Punia V, Rampal N, Szaflarski J, Wallace A, Westover MB, *Hirsch LJ*, Gaspard N. Bilateral Independent Periodic Discharges are associated with electrographic seizures and poor outcome: a case-control study. Presented at the 31st International Congress of Clinical Neurophysiology, Washington, DC, May 2018. Abstract T62.
169. Alkawadri R, Gaspard N, *Hirsch LJ*, Spencer DD. A novel method for ECOG-based localization of function. Presented at the 31st International Congress of Clinical Neurophysiology, Washington, DC, May 2018. Abstract T105.
170. **Sheikh ZB**, Stretz C, **Maciel C, Dhakar M**, *Hirsch LJ*, Gilmore E. Seizures and hyperexcitable EEG patterns in spontaneous deep intraparenchymal hemorrhage. Presented at the 31st International Congress of Clinical Neurophysiology, Washington, DC, May 2018. Abstract F80.