

LAWRENCE J. HIRSCH, M.D.

Professor of Neurology, Yale University

CURRICULUM VITAE

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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

• Recertification (certif #839) 2018-lifelong

<u>Clinical Neurophysiology:</u>	American Board of Clinical Neurophysiology • Recertification	1997-2007 2007-lifelong
<u>Epilepsy:</u>	American Board of Psychiatry and Neurology (certificate #190, 11/5/2013)	2013-2023

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 (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 (including ACGME Fellowship Program)	2010-2011

YALE:

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 Program Co-Director, Critical Care EEG Fellowship Program	5/1/2011- 7/1/2012-
Program Director, Epilepsy ACGME Fellowship Program	2014-2016
Program Director, Clinical Neurophysiology ACGME Fellowship	2019-

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 2019)	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-
Co-chair, Medical Advisory Board, The NORSE Institute	2017-
Best Doctors, Connecticut Magazine	2018, 2019, 2020
Insley Lecturer, Dept of Neurology, Univ of Rochester, Rochester, NY	2018
Chair, Study Section, Dept. of Defense Epilepsy Research Program	2018
Member, National Professional Advisory Board, Epilepsy Foundation	2018-2021
Co-chair, American Epilepsy Society's Epilepsy Therapy Symposium Committee	2018-2020
Co-chair, American Clinical Neurophysiology Society's Development Committee	2019-2021
Co-chair, Clinical Action workgroup, SUDEP Summit, Epilepsy Foundation	2020
Council member, American Clinical Neurophysiology Society	2020-

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.

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).

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.

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). 2016-2019.

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. On hold as of 2018.

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. 2014-2021. 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 2002-2020 by Ortho-McNeil, Elan, Pfizer, GlaxoSmithKline, UCB-Pharma, Novartis, Eisai, Sunovion, Upsher-Smith, Acorda, Proximagen 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 Post-approval Study. Site Principle Investigator. Yale Univ. Funded by NeuroPace, Inc. Payment per patient. 2018-2022.

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. 2016-2020.

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 – 2021.

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-
Program Co-Director, Critical Care EEG Fellowship	2012-
Neurology resident mentor	2012-2015
Senior Appointments and Promotions Committee, Yale U. School of Medicine	2013-2016
Academic Scorecard Committee, Dept. of Neurology	2013-2018
Efficiency Committee, Dept. of Neurology	2014-2015
Program Director, Epilepsy ACGME Fellowship Program	2014-2016

Chair, Epilepsy Monitoring Unit Director Search Committee, Dept of Neurology 2019
Program Director, Clinical Neurophysiology ACGME Fellowship Program 2019-

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 Education Committee	2000-2009
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:

Epilepsy lecture to Yale med student class, annually	2012-2015
Faculty Advisor, individual neurology residents (Irene Yang; Robert Kowalski)	2012-2015
General Neurology inpatient or consult service 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-

INVITED LECTURES:

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

Epilepsy Research Seminar talks (1-2/year, 1997-2011):

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, 1997-2011):

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, 2002
Purchase, NY, 2002. Epilepsy section head.
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
Seizure videos on the internet: friend or foe?
New seizure classification system
Continuous EEG Monitoring
Responsive Neurostimulation Updates
Seizure clusters and rescue therapy
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
Seizure clusters and rescue therapy
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: annually 1997-2003
status epilepticus; new AEDs; epilepsy updates; perioperative seizures
Grand Rounds, Dept. of Neurology, Penn State, Hershey, PA: 1998
MR Spectroscopy and epilepsy
White Plains Hosp. Stroke Support Group (White Plains Hosp): 2000
Stroke and seizures
Epilepsy Foundation of NYC (Manhattan): 2000
AEDs (for patients and caregivers)
Epilepsy Foundation of NJ: Epilepsy surgery and Vagus Nerve Stimulation; 2001
New Antiepileptic Drugs (for patients and caregivers).
Critical Care Update (weekend seminar, Manhattan): 2001

refractory status epilepticus	
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	2003
EEG Monitoring in the Critically Ill: Overview and practical tips (in Investigator's Workshop "Nonconvulsive Status Epilepticus and ICU EEG monitoring", director: L. Hirsch)	
American Academy of Neurology annual meeting, San Francisco:	2004
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)	
Grand Rounds, Dept. of Neurology, <i>University of Arkansas</i>	2004
Continuous EEG Monitoring in the Critically Ill	
American Academy of Clinical Neurophysiology annual meeting, Phoenix	2005
Continuous EEG Monitoring (in course on Critical Care Clinical Neurophysiology, director: L. Hirsch)	
Managing seizures in patients with brain tumors.	2004
In NY-Presbyterian Hospital CME course "Brain Tumors: Advances in diagnosis and treatment", Manhattan	
Update on Epilepsy and Sleep Disorders for Neurologists, Tarrytown, NY (CME course; director, L. Hirsch)	2004
1. Nonconvulsive Status Epilepticus in the Critically Ill	
2. Syncope versus seizure	
3. Head-to-head comparison of the newer AEDs: the 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, <i>University of Vermont</i>	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 13 th 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 2006
Care, Manhattan
- 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, 2006
Valhalla, NY; Brain stimulation for epilepsy
- 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 2007
Brain monitoring in the critically ill.
- Grand Rounds, Dept. of Neurology, *Jefferson University*, Phila, PA 2007
EEG Brain Monitoring in the Acutely Ill
- Grand Rounds, Dept. of Neurology, *Duke University*, Raleigh-Durham NC 2007
Brain Monitoring with EEG: the next frontier of ICU monitoring
- Grand Rounds, Epilepsy Division, *Cleveland Clinic*, Cleveland OH 2007
EEG Patterns in the ICU
- Grand Rounds, Dept. of Neurology, *Indiana University*, Indianapolis, IN 2007
Brain Monitoring with EEG: the next frontier of ICU monitoring
- Epilepsy Conference, Mayo Clinic, Scottsdale AZ 2007
Brain Monitoring with EEG in the ICU and stroke unit:
chasing cardiology again
- Grand Rounds, Dept. of Neurology, *Beth Israel Medical Center*, New York, NY 2007
Brain stimulation for epilepsy: The future has arrived
- Grand Rounds, Dept. of Neurology, *UMDNJ*, New Brunswick, NJ 2007
Brain Monitoring with EEG in the ICU and stroke unit: chasing
cardiology again
- American Academy of Neurology annual meeting, Boston MA 2007
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)
- Southern EEG and Western Clinical Neurophysiology Society Annual Meeting, Santa Fe, NM 2007
- 1. EEG Controversies: Period, rhythmic and ictal discharges
 - 2. Novel Therapeutics: Cortical Stimulation
- 4th Annual NY Symposium on Neurological Emergencies and Neurocritical Care, Manhattan 2007
- 1. Brain Monitoring with EEG in the Critically Ill
 - 2. Setting up your Continuous EEG Program
 - 3. The Neurosimulator: Status Epilepticus. Expert commentator
- Grand Rounds, Dept. of Neurology, St. Vincent’s Medical Center, Manhattan 2007
- Recognition and Management of the Many Types of Status Epilepticus
- Grand Rounds, Dept. of Medicine, Stamford Hospital, Stamford, CT 2007
- Brain Monitoring in the Critically Ill
- Neurology Update 2007, CME course (Columbia Univ), Manhattan 2007
- Epilepsy
- Neurocritical Care 2007: 5th Annual meeting, Cleveland, OH 2007
- Continuous EEG in the NICU
- Epilepsy Foundation of Long Island Professional Advisory Board Meeting 2007
- Garden City, NY
- 1. EEG Monitoring in the ICU
 - 2. Brain Stimulation for Epilepsy: The Future is Here?
- Combined Epilepsy Conference, *Massachusetts General Hospital and Brigham & Women’s Hospital*, 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, *Duke Univ.*, Raleigh-Durham, NC 2008
Diagnosis and Treatment of Seizures and Status Epilepticus in the Critically Ill
Combined *Duke/U. North Carolina* Neurocritical Care Meeting, NC 2008
Multimodality brain monitoring with scalp and intracranial EEG in the Neuro ICU
Neurology Resident Lecture Series, *Duke Univ*, 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 Care, Manhattan: Real-time CEEG: Cases and practical tips 2009
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 Swebilius 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, *University Hospitals*, Cleveland, OH 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, *Lenox Hill Hospital*, NY, NY 2010
- Neurology Grand Rounds, *Beth Israel Medical Center*, NY, NY 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, *Univ of South Florida*, Tampa 2010
- Brain Monitoring with EEG in the Critically Ill: Promise, Pearls, Pitfalls and oPinions
- American Epilepsy Society Annual Meeting, San Antonio, TX 2010
- Plenary Session: Responsive Neurostimulation: Has the Future Arrived?* (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 Seizures in the Critically Ill	2011
American Clinical Neurophysiology Society annual meeting, New Orleans, LA 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	2011
Yale Epilepsy 1 st Annual Symposium CME course, New Haven, CT What’s New in Epilepsy: Overview of the Latest Advances Status Epilepticus and EEG Monitoring Video—EEG Monitoring: When and Why SUDEP	2011
<i>Dartmouth</i> Epilepsy Program Annual Retreat, Stowe, VT Keynote speaker: Use of EEG Monitoring in the ICU Setting	2011
Neurology Grand Rounds, St. Luke’s/Roosevelt Hospital, New York, NY Diagnosing and Managing Seizures in the Critically Ill	2011
<i>Swedish Neuroscience Institute</i> Epilepsy Symposium, Seattle, WA Brain Monitoring in the Critically Ill	2011
8th Annual NY Symposium on Neurological Emergencies and Neurocritical Care, Manhattan: 1. Continuous EEG Monitoring 2. Status Epilepticus	2011
Neurological Update 2012, <i>University of Miami</i> annual course, Miami, FL 1. Brain Monitoring with EEG in the ICU 2. Epilepsy Update	2012
Medical Grand Rounds: Annual Donald P. Granger Neurology Memorial Lecture, Bridgeport Hospital, Bridgeport CT: Diagnosis and management of seizures in the hospital and emergency department.	2012
American Clinical Neurophysiology Society annual meeting, San Antonio, TX 1. EEG in the Detection of Non-Ictal Events (in the annual course) 2. Co-host and co-writer, Neurophys Bowl	2012
Seizures in Cerebrovascular disease, Bridgeport CT	2012
American Society of Electroneurodiagnostic Technologists (ASET) Webinar: ICU Continuous EEG Monitoring: 1. Diseases, Traumatic Brain Injury and Encephalopathy 2. Case presentations in CEEG ICU monitoring	2012
American Academy of Neurology annual meeting, New Orleans, LA Epilepsy (in all day course on Therapy in Neurology, director: S. Fahn)	2012
Yale Epilepsy 2 nd Annual Symposium CME course, West Haven, CT Pitfalls in EEG interpretation ICU Monitoring and Status Epilepticus Sudden unexpected death in epilepsy (SUDEP) Interesting cases	2012
9th Annual NY Symposium on Neurological Emergencies and Neurocritical Care, New York, NY: Neurotelemetry: the future of brain monitoring	2012
Partners against Mortality in Epilepsy Conference, Chicago IL Moderator and presenter: SUDEP: Where are we now? Summary of the NIH/NINDS SUDEP workshop	2012
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? (co-chair)	2012
International Workshop on Electrooculography, New Orleans (SFN satellite) Ecog: Clinical Primer	2012

Neuroscience Grand Rounds, Methodist Hospital, New York, NY Seizures in the ICU	2012
American Clinical Neurophysiology Society annual meeting, Miami, FL 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	2013
Neurology Grand Rounds, <i>Harvard Longwood</i> neurology program, Beth Israel Deaconess Medical Center, Boston, MA The emerging era of EEG neurotelemetry in the ICUs	2013
Neurology Grand Rounds, <i>University of Iowa</i> , Iowa City, IA Seizures and brain monitoring in the critically ill	2013
Neurology Grand Rounds, <i>University of Pennsylvania</i> , Philadelphia PA Diagnosing and Managing Seizures in the Critically Ill: Pearls, Pitfalls, and oPinions	2013
Yale Epilepsy 3 rd Annual Symposium CME course, West Haven, CT Critical Care Epilepsy Preventing SUDEP	2013
<i>Sahlie distinguished lecturer, University of Alabama at Birmingham</i> Diagnosing and Managing Seizures in the Critically Ill: Pearls, Pitfalls, and oPinions	2013
Neurology Grand Rounds, <i>The Ohio State University</i> , Columbus, OH Diagnosing and Managing Seizures in the Critically Ill: Pearls, Pitfalls, and oPinions	2013
Visiting Professorship, <i>Mayo Clinic</i> Dept of Neurology, Rochester MN Including Neurology Grand Rounds: Diagnosing and Managing Seizures in the Critically Ill: Pearls, Pitfalls, and Opinions”	2013
International Workshop on Electrographicography, San Diego CA (SFN satellite) ECOG: Clinical Primer	2013
American Epilepsy Society, Washington, D.C. SIG on SUDEP, co-director Responsive Neurostimulator Workshop: The RNS System Technology: ECoG and Data Storage	2013
Neurology Grand Rounds, <i>Washington University</i> , St. Louis, MO Diagnosing and Managing Seizures in the Critically Ill: Pearls, Pitfalls, and Opinions	2014
American Clinical Neurophysiology Society’s annual meeting, Atlanta, GA 1. Course Co-Director, ICU-EEG Monitoring 2. ICU EEG Nomenclature (in course on ICU EEG Monitoring) 3. Neurophysiology of SUDEP	2014
Neurology Grand Rounds, <i>Albert Einstein</i> College of Medicine, New York, NY Critical Care EEG Monitoring: A peek into the black box of the encephalopathic brain	2014
Neurology Grand Rounds, <i>Stanford</i> University, Palo Alto, CA ICU EEG Monitoring: A peek into the black box of the encephalopathic brain	2014
Neurology Grand Rounds, <i>Mt. Sinai</i> School of Medicine, New York, NY Critical Care EEG: A peek into the black box of the encephalopathic brain	2014
Neurology Grand Rounds, <i>New York University</i> , New York, NY ICU EEG Monitoring: A peek into the black box of the encephalopathic brain	2014

- 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, Minneapolis, MN. Moderator, co-organizer, steering committee 2014
- 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 Electroencephalography, Phila, PA 2015
Chronic intracranial EEG Monitoring and Responsive neurostimulation
- American Clinical Neurophysiology Society, annual meeting, Orlando, FL 2016
Electroencephalography: 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 Electroencephalography
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 2017 (Oct)
Consortium: The Latest and Greatest in Critical Care EEG
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, Depts of Neurology and Neurosurgery Grand Rounds, Univ 2018 (Jun)
of Rochester, Rochester NY
Update on Critical Care EEG: Pearls, Pitfalls, Promise and oPinions
Combined meeting of the of the Electroencephalography and Clinical 2018 (Sept)
Neuroscience Society (ECNS), the International Society for Neuro-
imaging in Psychiatry (ISNIP), the International Society for Brain
Electromagnetic Topography (ISBET), and the International Society
for Functional Source Imaging (ISFSI). Pittsburgh, PA
Plenary lecture: EEG in the ICU
Neurocritical Care Society 16th Annual meeting, Boca Raton, FL 2018 (Sept)
Critical Care EEG workshop
Basics and Beyond: Identifying Ictal-Interictal Continuum
features that impact practice
Cases: Ictal-Interictal Continuum
NORSE symposium
NORSE (new-onset refractory status epilepticus): Definition,
diagnosis and management
Epilepsy Seminar, Johns Hopkins University 2018 (Oct)
Responsive Neurostimulation
Grand Rounds (medicine/neurology), New York Presbyterian-Queens 2018 (Oct)
Critical Care EEG Monitoring and Nonconvulsive Seizures: A
practical update
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
Rash Cross-reactivity (plenary session in Epilepsy Fundamentals
Symposium)
ICU EEG (in EEG Basics skills workshop)
Use of chronic Ecog recordings from the RNS system (Innovation
Pavilion)
Session organizer and moderator: NORSE Roundtable discussion
Personalized Medicine using Chronic Ecog Recordings (dinner seminar)

Neurology Grand Rounds, Northwell Health, NY ICU EEG Monitoring and Nonconvulsive Seizures: The silent epidemic	2019 (Jan)
Medicine Grand Rounds, St. Francis Hospital, Hartford CT Seizures and EEG in the ICU	2019 (Feb)
American Clinical Neurophysiology Society Annual Meeting, Las Vegas NV Responsive Neurostimulation and Deep Brain Stimulation: Indications Continuous EEG Interpretation: Background, Reactivity, Artifacts, and ACNS Terminology Responsive Neurostimulation: What we learn from chronic recordings Moderator of Learning Lab: Wearable seizure detection	2019 (Feb)
American Academy of Neurology Annual Meeting, Phila, PA Quantitative EEG and Guidelines for ICU VEEG Monitoring	2019 (May)
Neurotherapeutics Symposium, Rochester NY Brain telemetry and critical care EEG	2019 (Jun)
Lennox-Gastaut Foundation Webinar Series: Seizure clusters and rescue therapies	2019 (Sept)
Neurology Grand Rounds, Univ of Florida, Gainesville FL Critical Care EEG	2019 (Sept)
Neurology Grand Rounds, Univ of Nebraska, Omaha NE Brain monitoring in the critically ill	2019 (Oct)
Neurology Grand Rounds, Lenox Hill Hosp/Northwell Health Critical Care EEG Monitoring and Nonconvulsive Seizures: The silent epidemic	2019 (Oct)
Epilepsy Lecture Series, New York University, New York NY Latest updates and controversies in ICU EEG	2019 (Oct)
American Epilepsy Society's annual meeting, Baltimore MD Optimizing timing and duration of "stat" EEGs	2019 (Dec)
Neurology Grand Rounds, Mt. Sinai, NY, NY Critical Care EEG Monitoring and Nonconvulsive Seizures: The silent epidemic (given twice in separate locations)	2020 (Jan)
American Clinical Neurophysiology Society Annual Meeting, New Orleans LA Neuromodulation: responsive neurostimulation and deep brain stimulation (in all-day course on Epilepsy Surgery) ACNS Nomenclature (in all-day course on ICU-EEG) The EEG in nonconvulsive status epilepticus (in symposium on STAT-EEGs: use, abuse and the role of new rapid-EEG devices)	2020 (Feb)
Stanford Univ Epilepsy Fellows' conference	2020 (Aug) virtual

Invited and confirmed U.S. talks, not yet completed:

Neurology Grand Rounds, Montefiore Medical Center, New York NY	2020 (Apr) postponed
American Neurological Association Annual Meeting Epilepsy, Special Interest Group speaker: Diagnosis and treatment of Nonconvulsive status epilepticus	2020 (Oct) virtual
Pennsylvania Neurological Society annual meeting Seizure clusters and rescue therapy	2020 (Oct) virtual
Neurology Grand Rounds, Univ of South Florida, Tampa FL	2021

International Invited Talks:

Jamaica Epilepsy Association launching (ILAE branch), Kingston, Jamaica Keynote speaker: Epilepsy and video/EEG monitoring.	2002
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, Innsbruck, **Austria** 2013
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
- Swiss Neurology Webinar speaker (**Switzerland** via web): EEG in the ICU 2019 (Jan)
The Emergence of Biopharmaceutical Cannabinoids: from Research and Development to Clinical Translation. Toronto, ON, **Canada** 2019 (Mar)
Cannabinoids in Epilepsy: panel member
- Japanese Society of Neurology 60th Annual Meeting, Osaka **Japan** 2019 (May)
Nonconvulsive seizures and status epilepticus in the critically ill: the silent epidemic (given remotely via video due to family emergency)
Chronic brain stimulation for treatment of epilepsy (given remotely via video due to family emergency)
- Brazilian Congress of Clinical Neurophysiology, Sao Paulo, **Brazil** 2019 (Aug)

- The neurophysiology of SUDEP (plenary session)
Recordings from the responsive neurostimulation system (plenary)
The EEG in status epilepticus (plenary)
ICU EEG: Background, reactivity and nomenclature (in ICU EEG course)
- Epilepsy Society of Australia Annual Scientific Meeting, Sydney, **Australia** 2019 (Nov)
The role of continuous EEG in the ICU (plenary)
Seizure clusters and rescue therapy (plenary)
- American Academy of Neurology's Annual Meeting, Toronto, ON, **Canada** 2020 (Apr) (virtual)
Quantitative EEG and Guidelines for ICU video-EEG Monitoring
- Yale-Salpêtrière neuroscience workshop, Paris, **France** 2020 (Sept) (virtual)
- Hong Kong Epilepsy Society Annual Scientific Meeting, **Hong Kong** 2020 (Sept) (virtual)
Nonconvulsive seizures in the critically ill: the roles of continuous EEG
and quantitative EEG
Seizure clusters and emerging rescue therapies

Invited and confirmed international talks, 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-), *New Engl J Med* (2019-)
Ad-hoc book reviewer for *Neurology* (1999), *Lancet* (2002), and *Neurocritical Care* (2003)
Section editor for Engel J, Moshe S (eds.) *Epilepsy: A Comprehensive Textbook* (2021)

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, Electroencephalography, 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, Electrocorticography/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)
Co-chair and moderator: Epilepsy Therapy Symposium plenary session Practical Clinical Pearls for Advanced Outpatient Epilepsy Management in 2019 American Epilepsy Society annual meeting, New Orleans, LA	2018 (Dec)
Session organizer and moderator: NORSE Roundtable discussion, in conjunction with The American Epilepsy Society annual meeting, New Orleans, LA	2018 (Dec)
Program Moderator, Learning Lab: Wearable seizure detection, American Clinical Neurophysiology Society annual meeting, Las Vegas, NV	2019 (Feb)
Co-chair, Epilepsy Foundation's Consensus Project on Best Practices in Rescue Therapies, Washington, DC	2019 (Apr)
Session organizer and co-moderator: NORSE Roundtable discussion, in conjunction with The American Epilepsy Society annual meeting, Baltimore, MD	2019 (Dec)
Co-chair and moderator, Epilepsy Therapy Symposium plenary session Neurostimulation for Epilepsy: Which, When, Where and How? American Epilepsy Society annual meeting, Baltimore, MD	2019 (Dec)
Co-chair and moderator, Epilepsy Therapy Symposium plenary session Iatrogenicity in Epilepsy Care American Epilepsy Society annual meeting, Seattle, WA	2020 (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 Survey in Epilepsy"), Expert Panel: member.	2013-
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
Dept of Defense Epilepsy Research Program: Chair of study section	2018
American Epilepsy Society's Early Career Grant study section: member	2019
Member, National Professional Advisory Board, Epilepsy Foundation	2018-2021
American Epilepsy Society's Epilepsy Therapy Symposium Committee: Co-chair	2018-2020
American Clinical Neurophysiology Society's Development Committee: Co-chair	2019-2021
SUDEP Summit, Epilepsy Foundation, workgroup co-chair	2020
American Clinical Neurophysiology Society: Council Member	2020-

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	2018-2019
Mentor, American Academy of Neurology's TRANSCENDs scholar program	2019-2020

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., Yapticular B, Hirsch LJ. Levetiracetam may be more effective for late onset partial epilepsy. *Archives of Neurology* 2002;59:1905-1908.
11. Opherck 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. Opherck 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.
39. Hamberger MJ, Palmese CA, Scarmeas N, **Weintraub D**, Choi H, *Hirsch LJ**. A Randomized, Double-Blind, Placebo-Controlled Trial of Donepezil to Improve Memory in Epilepsy. *Epilepsia* 2007 Jul;48(7):1283-91.
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, Zupal 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, Zupal 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.
60. *Hirsch LJ*, Donner EJ, So EL, Jacobs MP, Nashef L, Noebels JL, Buchhalter JR. Abbreviated Report of the NIH/NINDS workshop on Sudden Unexpected Death in Epilepsy (SUDEP). *Neurology* 2011;76(22):1932-8.
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.
64. Schmitt SE, *Pargeon KL*, Frechette ES, *Hirsch LJ*, Dalmau JO, *Friedman D*. Extreme Delta Brush: a unique EEG pattern in adults with anti-NMDA receptor encephalitis. *Neurology* 2012;79(11):1094-100.
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.

2013

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.
69. *Hirsch LJ*, LaRoche SM, *Gaspard N*, Gerard E, *Svoronos A*, Herman ST, Mani R, Arif H, Jette N, Minazad Y, Kerrigan JF, Vespa P, Hantus S, Claassen J, Young GB, So E, Kaplan PW, Nuwer MR, Fountain NB, Drislane FW. American Clinical Neurophysiology Society's Standardized Critical Care EEG Terminology: 2012 version. <http://acns.org/> and *J Clin Neurophysiol* 2013;30(1):1-27
70. Duncan D, Duckrow RB, Pincus SM, Goncharova I, *Hirsch LJ*, Spencer DD, Coifman RR, Zaveri HP. Intracranial EEG evaluation of relationship within a resting state network. *Clin Neurophysiol* 2013 124(10):1943-51.

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.
72. Pan JW, Duckrow RB, Gerrard J, Ong C, Hirsch LJ, Resor SR Jr, Zhang Y, Petroff O, Spencer S, Hetherington HP, Spencer DD. 7T MR spectroscopic imaging in the localization of surgical epilepsy. *Epilepsia* 2013 Sep;54(9):1668-78.
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.
74. Claassen J, Perotte A, Albers D, Kleinberg S, Schmidt JM, Tu B, Badjatia N, Lantigua H, Hirsch LJ, Mayer SA, Connolly ES, Hripsak G. Nonconvulsive seizures after subarachnoid hemorrhage: multimodality detection and outcomes. *Annals of Neurology*, 2013;74(1):53-64.
75. Goncharova II, Spencer SS, Duckrow RB, Hirsch LJ, Spencer DD, Zaveri HP. Intracranially recorded interictal spikes: Relation to seizure onset area and effect of medication and time of day. *Clin Neurophysiol* 2013;124:2119-28.
76. Lee HW, Youngblood MW, Farooque P, Han X, Jhun S, Chen W, Goncharova I, Vives K, Spencer DD, Zaveri H, Hirsch LJ, Blumenfeld H. Seizure Localization using Three-Dimensional Surface Projections of Intracranial EEG Power. *NeuroImage* 2013;83:616-26.
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.

2014

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.
83. Heck CN, King-Stephens D, Massey AD, Nair DR, Jobst BC, Barkley GL, Salanova V, Cole AJ, Smith MC, Gwinn RP, Skidmore C, Van Ness PC, Bergey GK, Park YD, Miller I, Geller E, Rutecki PA, Zimmerman R, Spencer DC, Goldman A, Edwards JC, Leiphart JW, Wharen RE, Fessler J, Fountain NB, Worrell GA, Gross RE, Eisenschenk S, Duckrow RB, Hirsch LJ, Bazil C, O'Donovan CA, Sun FT,

Courtney TA, Seale CG, Morrell MJ. Two-year seizure reduction in adults with medically intractable partial onset epilepsy treated with responsive neurostimulation: final results of the RNS System Pivotal trial. *Epilepsia* 2014;55(3):432-41.

84. Laxer KD, Trinka E, *Hirsch LJ*, Cendes F, Langfitt J, Delanty N, Resnick T, Benbadis SR. The consequences of refractory epilepsy and its treatment. *Epilepsy Behav* 2014 Aug;37:59-70.
85. **Gaspard N**, *Hirsch LJ*, LaRoche SM, Hahn CD, Westover MB; the **Critical Care EEG Monitoring Research Consortium**. Interrater agreement for Critical Care EEG Terminology. *Epilepsia* 2014 Sep;55(9):1366-73.
86. Alkawadri R, **Gaspard N**, Goncharova II, Spencer DD, Gerrard JL, Zaveri H, Duckrow RB, Blumenfeld H, *Hirsch LJ**. The spatial and signal characteristics of physiologic high frequency oscillations. *Epilepsia* 2014 Dec;55(12):1986-95.

2015:

87. **Chen B**, Choi H, *Hirsch LJ*, Moeller J, Javed A, Kato K, Legge A, Buchsbaum R, Detyniecki K. Cosmetic side effects of antiepileptic drugs in adults with epilepsy. *Epilepsy Behav* 2015 Jan;42:129-37.
88. Bergey GK, Morrell MJ, Mizrahi EM, Goldman A, King-Stephens D, Nair D, Srinivasan S, Jobst B, Gross RE, Shields DC, Barkley G, Salanova V, Olejniczak P, Cole A, Cash SS, Noe K, Wharen R, Worrell G, Murro AM, Edwards J, Duchowny M, Spencer D, Smith M, Geller E, Gwinn R, Skidmore C, Eisenschenk S, Berg M, Heck C, Van Ness P, Fountain N, Rutecki P, Massey A, O'Donovan C, Labar D, Duckrow RB, *Hirsch LJ*, Courtney T, Sun FT, Seale CG. Long-term treatment with responsive brain stimulation in adults with refractory partial seizures. *Neurology* 2015 Feb 24;84(8):810-7.
89. Tu B, Assassi N, Bazil CW, Hamberger MJ, *Hirsch LJ**. Quantitative EEG is an objective, sensitive and reliable indicator of transient anesthetic effects during Wada Tests. *J Clin Neurophysiol* 2015 Apr;32(2):152-8.
90. Gilmore EJ, **Gaspard N**, Choi HA, Cohen E, Burkart KM, Chong DH, Claassen J, *Hirsch LJ**. Acute brain failure in severe sepsis: a prospective study in the medical intensive care unit utilizing continuous EEG monitoring. *Intensive Care Med* 2015 Apr;41(4):686-94.
91. **Chen B**, Detyniecki K, *Hirsch LJ*, Moeller J, Javed A, Kato K, Legge A, Buchsbaum R, Choi H. Cross-sensitivity of patient-perceived adverse cognitive effects with antiepileptic drug use. *Epilepsy Behav* 2015 May;46:151-7.
92. King-Stephens D, Mirro E, Weber PB, Laxer KD, Van Ness PC, Salanova V, Spencer DC, Heck CN, Goldman A, Jobst B, Shields DC, Bergey GK, Eisenschenk S, Worrell GA, Rossi MA, Gross RE, Cole AJ, Sperling MR, Nair DR, Gwinn RP, Park YD, Rutecki PA, Fountain NB, Wharen RE, *Hirsch LJ*, Miller IO, Barkley GL, Edwards JC, Geller EB, Berg MJ, Sadler TL, Sun FT, Morrell MJ. Lateralization of mesial temporal lobe epilepsy with chronic ambulatory electrocorticography. *Epilepsia* 2015 Jun;56(6):959-67.
93. **Javed A**, Cohen B, Detyniecki K, *Hirsch LJ*, Legge A, **Chen B**, Bazil C, Kato K, Buchsbaum R, Choi H. Rates and predictors of patient-reported cognitive side effects of antiepileptic drugs: An extended follow-up. *Seizure* 2015 Jul;29:34-40.
94. **Sivaraju A**, Gilmore EJ, Wira CR, Stevens A, Rampal N, Moeller JJ, Greer DM, *Hirsch LJ*, **Gaspard N**. Prognostication of post-cardiac arrest coma: early clinical and electroencephalographic predictors of outcome. *Intensive Care Med* 2015 Jul;41(7):1264-72.

95. Sachdev RN, **Gaspard N**, Gerrard JL, *Hirsch LJ*, Spencer DD, Zaveri HP. Delta rhythm in wakefulness: evidence from intracranial recordings in human beings. *J Neurophysiol* 2015 Aug;114(2):1248-54.
96. **Gaspard N**, Foreman BP, Alvarez V, Cabrera Kang C, Probasco JC, Jongeling AC, Meyers E, Espinera A, Haas KF, Schmitt SE, Gerard EE, Gofton T, Kaplan PW, Lee JW, Legros B, Szaflarski JP, Westover BM, LaRoche SM, *Hirsch LJ**; **Critical Care EEG Monitoring Research Consortium (CCEMRC)**. New-onset refractory status epilepticus: Etiology, clinical features, and outcome. *Neurology* 2015 Nov 3;85(18):1604-13.
97. Punia V, Farooque P, Chen W, *Hirsch LJ*, Berg AT; Multicenter Study of Epilepsy Surgery, Blumenfeld H. Epileptic auras and their role in driving safety in people with epilepsy. *Epilepsia* 2015 Nov;56(11):e182-5.
98. Brown FC, *Hirsch LJ*, Spencer DD. Spatial memory for asymmetrical dot locations predicts lateralization among patients with presurgical mesial temporal lobe epilepsy. *Epilepsy Behav* 2015 Nov;52(Pt A):19-24.
99. Löscher W, *Hirsch LJ*, Schmidt D. The enigma of the latent period in the development of symptomatic acquired epilepsy - Traditional view versus new concepts. *Epilepsy Behav* 2015 Nov;52(Pt A):78-92.
100. **Sainju RK**, **Manganas LN**, Gilmore EJ, Petroff OA, Rampal N, *Hirsch LJ*, **Gaspard N**. Clinical correlates and prognostic significance of lateralized periodic discharges (LPDs) in patients without acute or progressive brain injury: a case-control study. *J Clin Neurophysiol* 2015 Dec;32(6):495-500.

2016

101. **Hermans MC**, Westover MB, van Putten MJ, *Hirsch LJ*, **Gaspard N**. Quantification of EEG reactivity in comatose patients. *Clin Neurophysiol* 2016 Jan;127(1):571-80.
102. Touloumes G, Morse E, Chen WC, Gober L, Dente J, Lilenbaum R, Katzenstein E, Pacelli A, Johnson E, Si Y, **Sivaraju A**, **Grover E**, Khozein R, Cunningham C, *Hirsch LJ*, Blumenfeld H. Human bedside evaluation versus automatic responsiveness testing in epilepsy (ARTiE). *Epilepsia* 2016 Jan;57(1):e28-32.
103. Foreman B, Mahulikar A, Tadi P, Claassen J, Szaflarski J, Halford JJ, Dean BC, Kaplan PW, *Hirsch LJ*, LaRoche S; **Critical Care EEG Monitoring Research Consortium (CCEMRC)**. Generalized periodic discharges and 'triphase waves': A blinded evaluation of inter-rater agreement and clinical significance. *Clin Neurophysiol* 2016 Feb;127(2):1073-80.
104. Lee JW, LaRoche S, Choi H, Rodriguez Ruiz AA, Fertig E, Politsky JM, Herman ST, Loddenkemper T, Sansevere AJ, Korb PJ, Abend NS, Goldstein JL, Sinha SR, Dombrowski KE, Ritzl EK, Westover MB, Gavvala JR, Gerard EE, Schmitt SE, Szaflarski JP, Ding K, Haas KF, Buchsbaum R, *Hirsch LJ*, Wusthoff CJ, Hopp JL, Hahn CD; **Critical Care EEG Monitoring Research Consortium (CCEMRC)**. Development and Feasibility Testing of a Critical Care EEG Monitoring Database for Standardized Clinical Reporting and Multicenter Collaborative Research. *J Clin Neurophysiol* 2016 Apr;33(2):133-40.
105. Joshi RB, Gaspard N, Goncharova II, Pavlova M, Duckrow RB, Gerrard JL, Spencer DD, *Hirsch LJ*, Zaveri HP. Progressive change in sleep over multiple nights of intracranial EEG monitoring. *Clin Neurophysiol* 2016 May;127(5):2302-7.
106. **Komaragiri A**, Detyniecki K, *Hirsch LJ**. Seizure clusters: A common, understudied and undertreated phenomenon in refractory epilepsy. *Epilepsy Behav* 2016 Jun;59:83-6.

107. Choi H, Hayat MJ, Zhang R, *Hirsch LJ*, Bazil CW, Mendiratta A, Kato K, Javed A, Legge AW, Buchsbaum R, Resor S, Heiman GA. Drug-resistant epilepsy in adults: Outcome trajectories after failure of two medications. *Epilepsia* 2016 Jul;57(7):1152-60.
108. Haider HA, Esteller R, Hahn CD, Westover MB, Halford JJ, Lee JW, Shafi MM, Gaspard N, Herman ST, Gerard EE, *Hirsch LJ*, Ehrenberg JA, LaRoche SM; **Critical Care EEG Monitoring Research Consortium**. Sensitivity of quantitative EEG for seizure identification in the intensive care unit. *Neurology* 2016 Aug 30;87(9):935-44.
109. Goncharova II, Alkawadri R, Gaspard N, Duckrow RB, Spencer DD, *Hirsch LJ*, Spencer SS, Zaveri HP. The relationship between seizures, interictal spikes and antiepileptic drugs. *Clin Neurophysiol* 2016 Sep;127(9):3180-6.
110. Gilmore EJ, **Maciel CB**, *Hirsch LJ*, Sheth KN. Review of the Utility of Prophylactic Anticonvulsant Use in Critically Ill Patients With Intracerebral Hemorrhage. *Stroke* 2016 Oct;47(10):2666-72.
111. Joshi RB, Gaspard N, Goncharova II, Duckrow RB, Duncan D, Gerrard JL, Spencer DD, *Hirsch LJ*, Zaveri HP. Regional and network relationship in the intracranial EEG second spectrum. *Clin Neurophysiol* 2016 Nov;127(11):3485-3491.

2017

112. Rodriguez Ruiz A, Vlachy J, Lee JW, Gilmore EJ, Ayer T, Haider HA, Gaspard N, Ehrenberg JA, Tolchin B, Fantaneanu TA, **Fernandez A**, *Hirsch LJ*, LaRoche S; **Critical Care EEG Monitoring Research Consortium**. Association of Periodic and Rhythmic Electroencephalographic Patterns With Seizures in Critically Ill Patients. *JAMA Neurol* 2017 Feb;74(2):181-188.
113. Alvarez V, Rodriguez Ruiz AA, LaRoche S, *Hirsch LJ*, Parres C, Voinescu PE, **Fernandez A**, Petroff OA, Rampal N, Haider HA, Lee JW; **Critical Care EEG Monitoring Research Consortium (CCEMRC)**. The use and yield of continuous EEG in critically ill patients: A comparative study of three centers. *Clin Neurophysiol* 2017 Apr;128(4):570-578.
114. Farooque P, *Hirsch L*, Levy S, Testa F, Mattson R, Spencer D. Surgical outcome in adolescents with mesial temporal sclerosis: Is it different? *Epilepsy Behav* 2017 Apr;69:24-27.
115. **Chen B**, Detyniecki K, Choi H, *Hirsch L*, Katz A, Legge A, Wong R, Jiang A, Buchsbaum R, Farooque P. Psychiatric and behavioral side effects of anti-epileptic drugs in adolescents and children with epilepsy. *Eur J Paediatr Neurol* 2017 May;21(3):441-449.
116. **Yoo JY**, Marcuse LV, Fields MC, Rosengard JL, Traversa MV, Gaspard N, *Hirsch LJ**. Brief Potentially Ictal Rhythmic Discharges [B(I)RDs] in Noncritically Ill Adults. *J Clin Neurophysiol* 2017 May;34(3):222-229.
117. **Pinto LF**, Gilmore EJ, Petroff OA, Sivaraju A, Rampal N, *Hirsch LJ*, Gaspard N. Cyclic seizures in critically ill patients: Clinical correlates, DC recordings and outcomes. *Clin Neurophysiol* 2017 Jun;128(6):1083-1090.
118. Jobst BC, Kapur R, Barkley GL, Bazil CW, Berg MJ, Bergey GK, Boggs JG, Cash SS, Cole AJ, Duchowny MS, Duckrow RB, Edwards JC, Eisenschenk S, Fessler AJ, Fountain NB, Geller EB, Goldman AM, Goodman RR, Gross RE, Gwinn RP, Heck C, Herekar AA, *Hirsch LJ*, King-Stephens D, Labar DR, Marsh WR, Meador KJ, Miller I, Mizrahi EM, Murro AM, Nair DR, Noe KH, Olejniczak PW, Park YD, Rutecki P, Salanova V, Sheth RD, Skidmore C, Smith MC, Spencer DC, Srinivasan S,

- Tatum W, Van Ness P, Vossler DG, Wharen RE Jr, Worrell GA, Yoshor D, Zimmerman RS, Skarpaas TL, Morrell MJ. Brain-responsive neurostimulation in patients with medically intractable seizures arising from eloquent and other neocortical areas. *Epilepsia* 2017 Jun;58(6):1005-1014.
119. Geller EB, Skarpaas TL, Gross RE, Goodman RR, Barkley GL, Bazil CW, Berg MJ, Bergey GK, Cash SS, Cole AJ, Duckrow RB, Edwards JC, Eisenschenk S, Fessler J, Fountain NB, Goldman AM, Gwinn RP, Heck C, Herekar A, *Hirsch LJ*, Jobst BC, King-Stephens D, Labar DR, Leiphart JW, Marsh WR, Meador KJ, Mizrahi EM, Murro AM, Nair DR, Noe KH, Park YD, Rutecki PA, Salanova V, Sheth RD, Shields DC, Skidmore C, Smith MC, Spencer DC, Srinivasan S, Tatum W, Van Ness PC, Vossler DG, Wharen RE Jr, Worrell GA, Yoshor D, Zimmerman RS, Cicora K, Sun FT, Morrell MJ. Brain-responsive neurostimulation in patients with medically intractable mesial temporal lobe epilepsy. *Epilepsia* 2017 Jun;58(6):994-1004.
120. Chen B, Choi H, *Hirsch LJ*, Katz A, Legge A, Wong RA, Jiang A, Kato K, Buchsbaum R, Detyniecki K. Prevalence and risk factors of seizure clusters in adult patients with epilepsy. *Epilepsy Res* 2017 Jul; 133:98-102.
121. **Benjamin CF**, Walshaw PD, Hale K, Gaillard WD, Baxter LC, Berl MM, Polczynska M, Noble S, Alkawadri R, Hirsch LJ, Constable RT, Bookheimer SY. Presurgical language fMRI: Mapping of six critical regions. *Hum Brain Mapp* 2017 Aug;38(8):4239-4255.
122. Struck AF, Osman G, Rampal N, Biswal S, Legros B, *Hirsch LJ*, Westover MB, Gaspard N. Time-dependent risk of seizures in critically ill patients on continuous electroencephalogram. *Ann Neurol* 2017 Aug;82(2):177-185.
123. Admiraal MM, Gilmore EJ, Van Putten MJAM, Zaveri HP, *Hirsch LJ*, Gaspard N. Disruption of Brain-Heart Coupling in Sepsis. *J Clin Neurophysiol* 2017 Sep;34(5):413-420.
124. X Herman W, Smith RE, Kronemer SI, Watsky RE, Chen WC, M Gober L, Touloumes GJ, Khosla M, Raja A, Horien CL, C Morse E, L Botta K, *Hirsch LJ*, Alkawadri R, Gerrard JL, Spencer DD, Blumenfeld H. A Switch and Wave of Neuronal Activity in the Cerebral Cortex During the First Second of Conscious Perception. *Cereb Cortex* 2017 Nov 29:1-14.
125. Chen B, Choi H, *Hirsch LJ*, Katz A, Legge A, Buchsbaum R, Detyniecki K. Psychiatric and behavioral side effects of antiepileptic drugs in adults with epilepsy. *Epilepsy Behav* 2017 Nov; 76:24-31.
126. Beniczky S, Aurlien H, Brøgger JC, *Hirsch LJ*, Schomer DL, Trinkka E, Pressler RM, Wennberg R, Visser GH, Eisermann M, Diehl B, Lesser RP, Kaplan PW, Nguyen The Tich S, Lee JW, Martins-da-Silva A, Stefan H, Neufeld M, Rubboli G, Fabricius M, Gardella E, Terney D, Meritam P, Eichele T, Asano E, Cox F, van Emde Boas W, Mameniskiene R, Marusic P, Zárubová J, Schmitt FC, Rosén I, Fuglsang-Frederiksen A, Ikeda A, MacDonald DB, Terada K, Ugawa Y, Zhou D, Herman ST. Standardized computer-based organized reporting of EEG: SCORE - Second version. *Clin Neurophysiol* 2017 Nov;128(11):2334-2346.
127. Struck AF, Ustun B, Ruiz AR, Lee JW, LaRoche SM, *Hirsch LJ*, Gilmore EJ, Vlachy J, Haider HA, Rudin C, Westover MB. Association of an Electroencephalography-Based Risk Score with Seizure Probability in Hospitalized Patients. *JAMA Neurol* 2017 Dec 1;74(12):1419-1424

128. Klein P, Dingledine R, Aronica E, Bernard C, Blümcke I, Boison D, Brodie MJ, Brooks-Kayal AR, Engel J Jr, Forcelli PA, *Hirsch LJ*, Kaminski RM, Klitgaard H, Kobow K, Lowenstein DH, Pearl PL, Pitkänen A, Puhakka N, Rogawski MA, Schmidt D, Sillanpää M, Sloviter RS, Steinhäuser C, Vezzani A, Walker MC, Löscher W. Commonalities in epileptogenic processes from different acute brain insults: Do they translate? *Epilepsia* 2018 Jan;59(1):37-66.
129. Legge AW, Detyniecki K, Javed A, *Hirsch LJ*, Kato K, Buchsbaum R, **Chen B**, Choi H. Comparative efficacy of unique antiepileptic drug regimens in focal epilepsy: An exploratory study. *Epilepsy Res* 2018 May; 142:73-80.
130. **Benjamin CFA**, Li AX, Blumenfeld H, Constable RT, Alkawadri R, Bickel S, Helmstaedter C, Meletti S, Bronen R, Warfield SK, Peters JM, Reutens D, Polczyńska M, Spencer DD, *Hirsch LJ**. Presurgical language fMRI: Clinical practices and patient outcomes in epilepsy surgical planning. *Hum Brain Mapp* 2018 Jul; 39:2777-2785.
131. Gaspard N, *Hirsch LJ*, Sculier C, Loddenkemper T, van Baalen A, Lancrenon J, Emmery M, Specchio N, Farias-Moeller R, Wong N, Nabhout R. New-onset refractory status epilepticus (NORSE) and febrile infection-related epilepsy syndrome (FIRES): State of the art and perspectives. *Epilepsia* 2018 Apr;59(4):745-752.
132. *Hirsch LJ*, Gaspard N, van Baalen A, Nabhout R, Demeret S, Loddenkemper T, Navarro V, Specchio N, Lagae L, Rossetti AO, Hocker S, Gofton TE, Abend NS, Gilmore EJ, Hahn C, Khosravani H, Rosenow F, Trinka E. Proposed consensus definitions for new-onset refractory status epilepticus (NORSE), febrile infection-related epilepsy syndrome (FIRES), and related conditions. *Epilepsia* 2018 Apr;59(4):739-744.
133. Thompson J, Bi M, Murchison AG, Makuch M, Bien CG, Chu K, Farooque P, Gelfand JM, Geschwind MD, *Hirsch LJ*, Somerville E, Lang B, Vincent A, Leite MI, Waters P, Irani SR; Faciobranchial Dystonic Seizures Study Group. The importance of early immunotherapy in patients with faciobranchial dystonic seizures. *Brain* 2018 Feb 1;141(2):348-356.
134. Bastide L, Legros B, Rampal N, Gilmore EJ, *Hirsch LJ*, Gaspard N. Clinical Correlates of Periodic Discharges and Nonconvulsive Seizures in Posterior Reversible Encephalopathy Syndrome (PRES). *Neurocrit Care* 2018 Jun 8. [Epub ahead of print] PubMed PMID: 29949000.
135. Husain AM, Lee JW, Kolls BJ, *Hirsch LJ*, Halford JJ, Gupta PK, Minazad Y, Jones JM, LaRoche SM, Herman ST, Swisher CB, Sinha SR, Palade A, Dombrowski KE, Gallentine WB, Hahn CD, Gerard EE, Bhapkar M, Lokhnygina Y, Westover MB; **Critical Care EEG Monitoring Research Consortium**. Randomized trial of lacosamide vs fosphenytoin for nonconvulsive seizures. *Ann Neurol* 2018 Jun; 83:1174-1185.
136. Bastide L, Legros B, Rampal N, Gilmore EJ, *Hirsch LJ*, Gaspard N. Clinical Correlates of Periodic Discharges and Nonconvulsive Seizures in Posterior Reversible Encephalopathy Syndrome (PRES). *Neurocrit Care* 2018 Dec;29:481-90.
137. **Dhakar MB**, Sivaraju A, **Maciel CB**, Youn TS, Gaspard N, Greer DM, *Hirsch LJ*, Gilmore EJ. Electro-clinical characteristics and prognostic significance of post anoxic myoclonus. *Resuscitation* 2018 Oct; 131:114-120.
138. **Benjamin CFA**, Dhingra I, Li AX, Blumenfeld H, Alkawadri R, Bickel S, Helmstaedter C, Meletti S, Bronen RA, Warfield SK, Peters JM, Reutens D, Polczyńska MM, *Hirsch LJ*, Spencer DD. Presurgical language fMRI: Technical practices in epilepsy surgical planning. *Hum Brain Mapp* 2018 Oct; 39:4032-4042.
139. Knauert MP, Gilmore EJ, Murphy TE, Yaggi HK, Van Ness PH, Han L, *Hirsch LJ*, Pisani MA. Association between death and loss of stage N2 sleep features among critically ill patients with delirium. *J Crit Care* 2018 Dec; 48:124-129.
140. Joshi RB, Duckrow RB, Goncharova II, Gerrard JL, Spencer DD, *Hirsch LJ*, Godwin DW, Zaveri HP. Seizure susceptibility and infraslow modulatory activity in the intracranial electroencephalogram. *Epilepsia* 2018 Nov;59(11):2075-2085.
141. Stretz C, Sheikh Z, Maciel CB, *Hirsch LJ*, Gilmore EJ. Seizures, periodic and rhythmic patterns in primary intraventricular hemorrhage. *Ann Clin Transl Neurol* 2018 Aug 14;5(9):1104-1111.

142. **Chen B**, Choi H, *Hirsch LJ*, Legge A, Buchsbaum R, Detyniecki K. Cross-sensitivity of psychiatric and behavioral side effects with antiepileptic drug use. *Seizure* 2018 Nov;62:38-42.
143. Amorim E, Gilmore EJ, Abend NS, Hahn CD, Gaspard N, Herman ST, *Hirsch LJ*, Lee JW, Cash SS, Westover MB. EEG Reactivity Evaluation Practices for Adult and Pediatric Hypoxic-Ischemic Coma Prognostication in North America. *J Clin Neurophysiol* 2018 Nov;35(6):510-514.
144. **Osman G, Rahangdale R**, Britton JW, Gilmore EJ, Haider HA, Hantus S, Herlopian A, Hocker SE, Woo Lee J, Legros B, Mendoza M, Punia V, Rampal N, Szaflarski JP, Wallace AD, Westover MB, *Hirsch LJ*, Gaspard N. Bilateral independent periodic discharges are associated with electrographic seizures and poor outcome: A case-control study. *Clin Neurophysiol* 2018 Nov;129(11):2284-2289.
145. Detyniecki K, **O'Bryan J**, Choezom T, Rak G, Ma C, Zhang S, Bonito J, *Hirsch LJ**. Prevalence and predictors of seizure clusters: A prospective observational study of adult patients with epilepsy. *Epilepsy Behav* 2018 Nov;88:349-356.

2019

146. **Tolchin B**, Dworetzky BA, Martino S, Blumenfeld H, *Hirsch LJ*, Baslet G. Adherence with psychotherapy and treatment outcomes for psychogenic nonepileptic seizures. *Neurology* 2019 Feb 12;92(7):e675-e679.
147. Vespa PM, Shrestha V, Abend N, ... *Hirsch L*, ... Engel J Jr. The epilepsy bioinformatics study for anti-epileptogenic therapy (EpiBioS4Rx) clinical biomarker: Study design and protocol. *Neurobiol Dis* 2019 Mar;123:110-114.
148. Gofton TE, Gaspard N, Hocker SE, Loddenkemper T, *Hirsch LJ**. New onset refractory status epilepticus research: What is on the horizon? *Neurology*. 2019 Apr 23;92(17):802-810.
149. **Jafarpour S**, *Hirsch LJ*, Gaínza-Lein M, Kellinghaus C, Detyniecki K. Seizure cluster: Definition, prevalence, consequences, and management. *Seizure* 2019 May;68:9-15.
150. **Tolchin B**, Baslet G, Suzuki J, Martino S, Blumenfeld H, *Hirsch LJ*, Altalib H, Dworetzky BA. Randomized controlled trial of motivational interviewing for psychogenic nonepileptic seizures. *Epilepsia* 2019 May;60(5):986-995.
151. Gofton TE, Wong N, *Hirsch LJ*, Hocker SE. Communication Challenges: A Spotlight on New-Onset Refractory Status Epilepticus. *Mayo Clin Proc* 2019 May;94(5):857-863.
152. Struck AF, Rodriguez-Ruiz AA, Osman G, Gilmore EJ, Haider HA, Dhakar MB, Schrettner M, Lee JW, Gaspard N, *Hirsch LJ*, Westover MB; **Critical Care EEG Monitoring Research Consortium (CCERMRC)**. Comparison of machine learning models for seizure prediction in hospitalized patients. *Ann Clin Transl Neurol* 2019 Jul;6(7):1239-1247.
153. Nune G, Arcot Desai S, Razavi B, Agostini MA, Bergey GK, Herekar AA, *Hirsch LJ*, Lee RW, Rutecki PA, Srinivasan S, Van Ness PC, Tcheng TK, Morrell MJ. Treatment of drug-resistant epilepsy in patients with periventricular nodular heterotopia using RNS® System: Efficacy and description of chronic electrophysiological recordings. *Clin Neurophysiol* 2019 Aug;130(8):1196-1207.
154. **Montenegro MA**, Novais A, *Hirsch LJ**. How long would it take to try all the antiepileptic drugs available? *Epilepsy Res* 2019 Aug;154:77-78.
155. Owusu KA, **Dhakar MB, Bautista C**, McKimmy D, Cotugno S, Sukumar N, Deng Y, Farooque P, *Hirsch LJ*, **Maciel CB**. Comparison of intranasal midazolam versus intravenous lorazepam for seizure termination and prevention of seizure clusters in the adult epilepsy monitoring unit. *Epilepsy Behav* 2019 Sep;98(Pt A):161-167.
156. Yan Q, Gaspard N, Zaveri HP, Blumenfeld H, *Hirsch LJ*, Spencer DD, Alkawadri R. The connectivity index: an effective metric for grading epileptogenicity. *J Neurosurg* 2019 Sep 27:1-8.
157. Mazur RD, Wang Ba Q, Kato Bs K, Buchsbaum Bs R, Bonito Bs J, Choi H, *Hirsch L*, Detyniecki K. Effectiveness of Levetiracetam Monotherapy in Pediatric Patients With Epilepsy. *J Child Neurol* 2019 Sep;34(10):593-597.
158. Ghassemi MM, Amorim E, Alhanai T, Lee JW, Herman ST, Sivaraju A, Gaspard N, *Hirsch LJ*, Scirica BM, Biswal S, Moura Junior V, Cash SS, Brown EN, Mark RG, Westover MB; **Critical Care Electroencephalogram Monitoring Research Consortium**. Quantitative Electroencephalogram Trends Predict Recovery in Hypoxic-Ischemic Encephalopathy. *Crit Care Med* 2019 Oct;47(10):1416-1423.

159. **Sheikh Z**, Blumenfeld H, *Hirsch LJ**. Contralateral ictal ptosis: Is it a reliable lateralizing sign in epilepsy? *Neurol Clin Pract* 2019 Dec;9(6):513-515.

2020

160. **Quraishi IH**, Mercier MR, Skarpaas TL, *Hirsch LJ**. Early detection rate changes from a brain-responsive neurostimulation system predict efficacy of newly added antiseizure drugs. *Epilepsia* 2020 Jan;61(1):138-148.
161. Moise AM, Karakis I, **Herlopian A**, **Dhakar M**, *Hirsch LJ*, Cotsonis G, LaRoche S, Cabrera Kang CM, Westover B, Rodriguez A. Continuous EEG Findings in Autoimmune Encephalitis. *J Clin Neurophysiol* 2019 Dec 2. [Epub ahead of print]
162. Westover MB, Gururangan K, Markert MS, **Blond BN**, Lai S, Benard S, Bickel S, *Hirsch LJ*, Parvizi J. Diagnostic Value of Electroencephalography with Ten Electrodes in Critically Ill Patients. *Neurocrit Care* 2020 Feb 7. [Epub ahead of print]
163. *Hirsch LJ*, Mirro EA, Salanova V, Witt TC, Drees CN, Brown MG, Lee RW, Sadler TL, Felton EA, Rutecki P, Shin HW, Hadar E, Hegde M, Rao VR, Mnatsakanyan L, Madhavan DS, Zakaria TJ, Liu AA, Heck CN, Greenwood JE, Bigelow JK, Nair DR, Alexopoulos AV, Mackow M, Edwards JC, Sotudeh N, Kuzniecky RI, Gwinn RP, Doherty MJ, Geller EB, Morrell MJ. Mesial temporal resection following long-term ambulatory intracranial EEG monitoring with a direct brain-responsive neurostimulation system. *Epilepsia* 2020 Mar;61(3):408-420.
164. **Tolchin B**, Baslet G, Martino S, Suzuki J, Blumenfeld H, *Hirsch LJ*, Altalib H, Dworetzky BA. Motivational Interviewing Techniques to Improve Psychotherapy Adherence and Outcomes for Patients With Psychogenic Nonepileptic Seizures. *J Neuropsychiatry Clin Neurosci* 2020 Spring; 32(2):125-131.
165. Struck AF, Fesharaki MT, Schmitt SE, Ruiz AR, Swisher CB, Subramaniam T, Hernandez C, Kaleem S, Haider HA, Cissé AF, **Dhakar MB**, *Hirsch LJ*, Rosenthal ES, Zafar SF, Gaspard N, Westover MB. Assessment of the Validity of the 2HELPS2B Score for Inpatient Seizure Risk Prediction. *JAMA Neurol* 2020 Apr 1;77(4):500-507.
166. Tatum WO, *Hirsch LJ*, Gelfand MA, Acton EK, LaFrance WC Jr, Duckrow RB, Chen DK, Blum AS, Hixson JD, Drazkowski JF, Benbadis SR, Cascino GD; OSmartViE Investigators. Assessment of the Predictive Value of Outpatient Smartphone Videos for Diagnosis of Epileptic Seizures. *JAMA Neurol* 2020 May 1;77(5):593-600.
167. Moffet EW, Subramaniam T, *Hirsch LJ*, Gilmore EJ, Lee JW, Rodriguez-Ruiz AA, Haider HA, Dhakar MB, Jadeja N, **Osman G**, Gaspard N, Struck AF. Validation of the 2HELPS2B Seizure Risk Score in Acute Brain Injury Patients. *Neurocrit Care* 2020 Feb 27. [Epub ahead of print]
168. **Percy J**, Zaveri H, Duckrow RB, Gerrard J, Farooque P, *Hirsch LJ*, Spencer DD, Sivaraju A. Beyond implantation effect? Long-term seizure reduction and freedom following intracranial monitoring without additional surgical interventions. *Epilepsy Behav* 2020 (Jun) [Epub ahead of print].
169. Vespa PM, Olson DM, John S, ... , *Hirsch LJ*, Westover MB. Evaluating the Clinical Impact of Rapid Response Electroencephalography: The DECIDE Multicenter Prospective Observational Clinical Study. *Crit Care Med* 2020 (Jun). [Epub ahead of print]
170. **Sheikh ZB**, Stretz C, **Maciel CB**, **Dhakar MB**, Orgass H, Petroff OA, *Hirsch LJ*, Gilmore EJ. Deep Versus Lobar Intraparenchymal Hemorrhage: Seizures, Hyperexcitable Patterns, and Clinical Outcomes. *Crit Care Med* 2020 (Jun);48(6):e505-e513.
171. Cissé FA, **Osman GM**, Legros B, Depont C, *Hirsch LJ*, Struck AF, Gaspard N. Validation of an algorithm of time-dependent electro-clinical risk stratification for electrographic seizures (TERSE) in critically ill patients. *Clin Neurophysiol* 2020 (Aug);131(8):1956-1961.

CASE REPORTS, peer-reviewed:

1. **Gordon PH**, *Hirsch LJ*, Balmaceda C. Transient aphasia associated with lithium intoxication [letter]. *J Clin Psychopharm.* 1997;17:55-56.

2. **Shah GD**, Hirsch LJ*. Bitemporal epileptiform discharges induced by bupropion: a case report. *Clin Neuropharmacol* 2001;24:304-306.
3. Hirsch LJ, Emerson RG, Pedley TA. Prolonged "postictal" aphasia: demonstration of persistent ictal activity with intracranial electrodes. *Neurology* 2001; 56:134-136.
4. **Butler T**, Hirsch LJ, **Claassen J**. The hazards of lack of co-registration of ictal brain SPECT with MRI: A case report of sinusitis mimicking a brainstem seizure focus. *BMC Nuclear Medicine* 2004, 4:2.
5. **Svoronos A**, Hirsch LJ, Khandji AG. Imaging findings in encephalocraniocutaneous lipomatosis. *Neurology* 2011;77(7):694.
6. **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.
7. **Yoo JY**, **Gaspard N**, Hirsch LJ, Alkawadri R. Respiratory Artifact on EEG Independent of the Respirator. *J Clin Neurophysiol* 2014 Oct;31(5):e16-7.
8. **Yoo JY**, Hirsch LJ*. Limbic encephalitis associated with anti-voltage-gated potassium channel complex antibodies mimicking creutzfeldt-jakob disease. *JAMA Neurol* 2014;71(1):79-82.
9. **Sainju RK**, Moeller JJ, Hirsch LJ*. Teaching neuroImages: a broadly distributed ictal rhythm easily missed on bipolar montage: "now you see it...". *Neurology* 2015 Apr 14;84(15):e115-6.

NON-PEER REVIEWED INVITED REVIEWS, EDITORIALS, EXPERT COMMENTARIES, GUIDELINES, LETTERS to the editor, UpToDate and Medlink reviews, etc.:

1. Alavi A, Hirsch LJ. Studies of central nervous system disorders with SPECT and PET: Evolution over the past two decades. *Semin Nucl Med* 1991; 21: 58-81.
2. Hirsch LJ, **Lain AH**, Walczak TS. Postictal nose-wiping: a lateralizing sign in temporal lobe complex partial seizures. *Neurology* 1999 (May);52(8):1721. [letter]
3. Hirsch LJ, **Claassen J**. The current state of treatment of status epilepticus. *Curr Neurol Neurosci Rep* 2002; 2:345-56.
4. Hirsch LJ, **Shih TT**. Response: Tonic-absence seizures. *Epilepsia* 2003;44:1361-2. [Letter]
5. Hirsch LJ, Hauser WA. Can sudden unexplained death in epilepsy be prevented? *Lancet* 2004;364:2157-8. [invited editorial]
6. Hirsch LJ. Continuous EEG monitoring in the intensive care unit: an overview. *J Clin Neurophysiol* 2004;21:332-40.
7. Hirsch LJ. Brain monitoring: the next frontier of ICU monitoring. *J Clin Neurophysiol* 2004;21:305-6. [guest editorial]

8. *Hirsch LJ, Kull L. Continuous EEG monitoring in critically ill patients. Am J Electroneurodiagnostic Technol* 2004;44:137-158.
9. *Hirsch LJ. Absence epilepsy with onset before age three years: Could this be Glut-1 Deficiency Syndrome (De Vivo Syndrome)? Epilepsia* 2004;45:92. [Comment Letter]
10. **Pang T, Hirsch LJ***. Treatment of convulsive and nonconvulsive status epilepticus. *Current Treatment Options in Neurology* 2005;7:247-259.
11. **Jette N, Hirsch LJ***. Continuous electroencephalogram monitoring in critically ill patients. *Curr Neurol Neurosci Rep* 2005;5:312-21.
12. **Jette N, Hirsch LJ***. Sudden Unexplained Death in Epilepsy. *Profiles in seizure management* 2005;4:11-16.
13. *Hirsch LJ, Brenner RP, Drislane FW, So E, Kaplan PW, Jordan KG, Herman ST, LaRoche SM, Young GB, Bleck TP, Scheuer ML, Emerson RG. The ACNS Subcommittee on Research Terminology for Continuous EEG Monitoring: Proposed standardized terminology for rhythmic and periodic EEG patterns encountered in critically ill patients. J Clin Neurophysiol* 2005;22:128-135.
14. **Chong DJ, Hirsch LJ***. Which EEG patterns warrant treatment in the critically ill? Reviewing the evidence for treatment of periodic epileptiform discharges and related patterns. *J Clin Neurophysiol* 2005;22:79-91.
15. **Claassen J, Mayer SA, Hirsch LJ**. Continuous EEG monitoring in patients with subarachnoid hemorrhage. *J Clin Neurophysiol* 2005;22:92-98.
16. **Abou Khaled KJ, Hirsch LJ***. Advances in the management of seizures and status epilepticus in critically ill patients. *Crit Care Clinics* 2006;22:637-659.
17. *Jordan KG, Hirsch LJ*. In Nonconvulsive Status Epilepticus (NCSE), Treat to Burst-Suppression: Pro and Con. *Epilepsia* 2006 Oct;47 Suppl 1:41-5.
18. *Bazil CW, Hirsch LJ*. Autoantibodies: A novel etiology for refractory epilepsy? Clinical trials review. *Curr Neurol Neurosci Rep* 2006;6(4):309-10.
19. *Hirsch LJ, Arif H*. Status Epilepticus. *AAN's Continuum: Lifelong Learning Neurol* 2007;13(4):121-151.
20. *Hirsch LJ*. ApoE, MemorE and EpilepsE. *Epilepsy Currents* 2007;7:149-50.
21. *Hirsch LJ*. The status of intravenous valproate for status. *Epilepsy Currents* 2007;7:96-8.
22. **Claassen J, Jette N, 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* 2008;71(19):1554-1555. [Response letter]
23. *Hirsch LJ*. Levitating Levetiracetam's Status for Status Epilepticus. *Epilepsy Currents* 2008 Sep-Oct;8(5):125-6.
24. *Hirsch LJ*. Nonconvulsive seizures in traumatic brain injury: what you don't see can hurt you. *Epilepsy Curr* 2008;4:97-8.

25. **Abou Khaled KJ**, *Hirsch LJ**. Updates in the management of seizures and status epilepticus in critically ill patients. *Neurol Clin* 2008;26:385–408.
26. **Arif H**, *Hirsch LJ**. Treatment of Status Epilepticus. *Semin Neurol* 2008;28:342–354.
27. *Hirsch LJ*. To sleep, perchance to seize: surgery ameliorates nocturnal frontal lobe seizures. *Epilepsy Curr* 2008 Jan-Feb;8(1):12-4.
28. *Hirsch LJ*, **Rampal N**, **Friedman D**. Subtle status epilepticus. In: Gilman S, editor. *MedLink Neurology*. San Diego: MedLink Corporation. Available at www.medlink.com. August 2007; updated annually since.
29. *Hirsch LJ*, **Arif H**, **Moeller J**. Video and ambulatory EEG monitoring in the diagnosis of seizures and epilepsy. *UpToDate* 2008. Updated annually since. www.uptodate.com
30. *Hirsch LJ*, **Arif H**, **Moeller J**. Electroencephalography (EEG) in the diagnosis of seizures and epilepsy. *UpToDate*. 2008. Updated annually since. www.uptodate.com
31. *Hirsch LJ*, **Arif H**. Neuroimaging in the evaluation of seizures and epilepsy. *UpToDate* 2008. Updated annually since. www.uptodate.com
32. Brenner RP, Drislane FW, Ebersole JS, Grigg-Damberger M, Hallett M, Herman ST, *Hirsch LJ*, Husain AM, Kaplan P, Legatt AD, Nordli DR, Parry GJ, Ross MA, Schomer DL, So EL, Sumner AJ, Tatum WO. American Clinical Neurophysiology Society. Guideline twelve: guidelines for long-term monitoring for epilepsy. *J Clin Neurophysiol* 2008 Jun;25(3):170-80.
33. So EL, Bainbridge J, Buchhalter JR, Donalaty J, Donner EJ, Finucane A, Graves NM, *Hirsch LJ*, Montouris GD, Temkin NR, Wiebe S, Sierzant TL. Report of the American Epilepsy Society and the Epilepsy Foundation Joint Task Force on Sudden Unexplained Death in Epilepsy. *Epilepsia* 2009 Apr;50(4):917-22.
34. *Hirsch LJ*, **Jirsch J**, **Gaspard N**. Nonconvulsive seizures and status epilepticus. www.uptodate.com. 2012, updated annually since.
35. *Hirsch LJ*. Seizures in patients undergoing resection of low-grade gliomas. *Epil Curr* 2009;9(4):98-100.
36. *Hirsch LJ*. Breathing new life into the fight against sudden death in epilepsy. *Epil Curr* 2009;9(5):137-139.
37. Gerard EE, *Hirsch LJ**. Myoclonic Status Epilepticus. In: Gilman S, editor-in-chief. *MedLink Neurology*. San Diego: MedLink Corporation. December 2009. Available at www.medlink.com. Updated annually since.
38. *Hirsch LJ*, **Friedman D**. Subtle status epilepticus. In: Gilman S, editor. *MedLink Neurology*. San Diego: MedLink Corporation. Available at www.medlink.com. December 2009. Updated annually since.
39. **Gilmore E**, **Choi HA**, *Hirsch LJ*, Claassen J. Seizures and CNS hemorrhage: spontaneous intracerebral and aneurysmal subarachnoid hemorrhage. *The Neurologist* 2010 May;16(3):165-75.
40. Gerard EE, *Hirsch LJ**. Gelastic Seizures. In: Gilman S, editor-in-chief. *MedLink Neurology*. San Diego: MedLink Corporation. Available at www.medlink.com. May 2010. Updated annually since.
41. Moeller J, *Hirsch LJ**. Epilepsia Partialis Continua. In: Gilman S, editor-in-chief. *MedLink Neurology*. San Diego: MedLink Corporation. Available at www.medlink.com. Feb 2010. Updated annually since.

42. Benbadis SR, Faught RE Jr, Hirsch L, Sperling M, Slater J, Sirven J. Open letter (and invitation) to the pharmaceutical industry: "no, we cannot just present your slide deck ...". *Epilepsy Behav* 2010 Nov;19(3):544-5.
43. Hirsch LJ. Urgent Continuous EEG (cEEG) Monitoring Leads to Changes in Treatment in Half of Cases. *Epil Curr* 2010 Jul;10(4):82-5.
44. Hirsch LJ. Is sudden unexpected death in epilepsy due to postictal brain shutdown? *Ann Neurol* 2010 Dec;68(6):773-5.
45. Benbadis SR, Faught RE, Sirven J, Slater JD, Sperling MR, Hirsch LJ. The pervasive influence of conflicts of interest: a personal perspective. *Neurology* 2010;75(22):2045-6.
46. Hirsch LJ. Classification of EEG patterns in patients with impaired consciousness. *Epilepsia* 2011;52 (Suppl 8):21-24.
47. Friedman D, Hirsch LJ*. Sudden Unexpected Death in Epilepsy – an overview of current understanding and future perspectives. *US Neurology* 2012;8(1):42–6.
48. Friedman D, Hirsch LJ*. Sudden Unexpected Death in Epilepsy – an overview of current understanding and future perspectives. *European Neurological Review* 2012;7(1):67–71.
49. Foreman B, Hirsch LJ*. Epilepsy Emergencies: Diagnosis and Management. *Neurol Clin* 2012;30:11-41.
50. Hirsch LJ. Intramuscular versus intravenous benzodiazepines for prehospital treatment of status epilepticus. *N Engl J Med* 2012; 366(7):659-60.
51. Hirsch LJ. Long-term outcome after epilepsy surgery: relapsing, remitting disorder? *Epilepsy Curr* 2012;12(4):140-2.
52. LaRoche S, Mani R, Arif H, Gerard EE, Hirsch LJ. In reply. *J Clin Neurophysiol* 2013;30(1):102-3.
53. Gaspard N, Hirsch LJ*. Pitfalls in ictal EEG interpretation: critical care and intracranial recordings. *Neurology* 2013;80 (Suppl 1): S26-S42.
54. Laroche S, Mani R, Arif H, Hirsch LJ, Gerard E. In reply. *J Clin Neurophysiol* 2013;30(2):210.
55. Hirsch LJ, Gaspard N. Status Epilepticus. *Continuum* (Minneap Minn). 2013;19(3 Epilepsy):767-94.
56. Ritaccio A, Brunner P, Crone NE, Gunduz A, Hirsch LJ, Kanwisher N, Litt B, Miller K, Moran D, Parvizi J, Ramsey N, Richner TJ, Tandon N, Williams J, Schalk G. Proceedings of the Fourth International Workshop on Advances in Electroconvulsive Therapy. *Epilepsy Behav* 2013;29(2):259-68.
57. Beniczky S, Hirsch LJ, Kaplan PW, Pressler R, Bauer G, Aurlen H, Brøgger JC, Trinka E. Unified EEG terminology and criteria for nonconvulsive status epilepticus. *Epilepsia* 2013;54 (Suppl 6):28-9.
58. Duncan D, Duckrow RB, Pincus SM, Goncharova I, Hirsch LJ, Spencer DD, Coifman RR, Zaveri HP. Reply to about the electrophysiological basis of resting state networks. *Clin Neurophysiol*. 2013;125(8):1713-4.
59. Hirsch LJ. A new encephalitis with GABA(A) receptor antibodies. *Lancet Neurol* 2014;13(3):239-40.

60. *Hirsch LJ*. Finally, a flood of fascinating facts and findings on final outcomes after frontal lobe epilepsy surgery. *Epilepsy Curr* 2014;14(3):139-42.
61. *Gasparid N, Yoo JY, Hirsch LJ**. Brief rhythmic discharges in electroencephalography on an interictal to ictal continuum-reply. *JAMA Neurol* 2014 Sep;71(9):1193-4.
62. Benbadis S, Helmers S, *Hirsch L*, Sirven J, Vale FL, Wheless J. Yes, neurostimulation has a role in the management of epilepsy. *Neurology* 2014;83(9):845-7.
63. Benbadis S, Helmers S, *Hirsch L*, Sirven J, Vale FL, Wheless J. Skepticism should not result in ignoring a treatment option. *Neurology* 2014;83(9):849-50.
64. Ritaccio A, Brunner P, Gunduz A, Hermes D, *Hirsch LJ*, Jacobs J, Kamada K, Kastner S, Knight RT, Lesser RP, Miller K, Sejnowski T, Worrell G, Schalk G. Proceedings of the Fifth International Workshop on Advances in Electrocorticography. *Epilepsy Behav* 2014 Dec;41:183-192.
65. Wechsler R, Hauser RA, French J; Clinician Investigator Collaborative. Who is helping whom? Manuscript support and transfer of value. *Ann Neurol* 2015 Feb;77(2):353-5.
66. Herman ST, Abend NS, Bleck TP, Chapman KE, Drislane FW, Emerson RG, Gerard EE, Hahn CD, Husain AM, Kaplan PW, LaRoche SM, Nuwer MR, Quigg M, Riviello JJ, Schmitt SE, Simmons LA, Tsuchida TN, *Hirsch LJ**. Consensus Statement on Continuous EEG in Critically Ill Adults and Children, Part I: Indications. *J Clin Neurophysiol* 2015 Apr;32(2):87-95.
67. Herman ST, Abend NS, Bleck TP, Chapman KE, Drislane FW, Emerson RG, Gerard EE, Hahn CD, Husain AM, Kaplan PW, LaRoche SM, Nuwer MR, Quigg M, Riviello JJ, Schmitt SE, Simmons LA, Tsuchida TN, *Hirsch LJ**. Consensus Statement on Continuous EEG in Critically Ill Adults and Children, Part II: Personnel, Technical Specifications and Clinical Practice. *J Clin Neurophysiol* 2015 Apr;32(2):96-108.
68. Gilmore EJ, *Hirsch LJ**. Epilepsy: Status epilepticus epidemiology--tracking a moving target. *Nat Rev Neurol* 2015 Jul;11(7):377-8.
69. *Hirsch LJ*. Finding the Lesser of Two Evils: Treating Refractory Status Epilepticus. *Epilepsy Curr* 2015 Nov-Dec;15(6):313-6.
70. Detyniecki K, *Hirsch L**. Marijuana use in epilepsy: the myth and the reality. *Curr Neurol Nsci Reports* 2015 Oct; 15:65.
71. Detyniecki K, *Hirsch LJ**. Cannabidiol for epilepsy: trying to see through the haze. *Lancet Neurol* 2016 Mar;15(3):235-7.
72. *Grover EH, Nazzal Y, Hirsch LJ**. Treatment of convulsive status epilepticus. *Curr Treat Options Neurol* 2016 Mar;18(3):11.
73. *Blond B*, Detyniecki K, *Hirsch LJ**. Assessment of treatment side effects and quality of life in people with epilepsy. *Neurol Clin* 2016 May;34(2):395-410.
74. Choi H, Hayat MJ, Zhang R, *Hirsch LJ*, Bazil C, Mendiratta A, Kato K, Javed A, Legge AW, Buchsbaum R, Resor S, Heiman G. In response: Drug-resistant epilepsy in adults: outcome trajectories after failure of two medications. *Epilepsia* 2016 Sep;57(9):1526-7.

75. **Ghoshal S**, *Hirsch LJ**. NORSE: cryptogenic new-onset refractory status epilepticus. *Neurology Reviews* Epilepsy Resource Center, Feb 1, 2017.
<http://www.mdedge.com/neurologyreviews/epilepsyresourcecenter/article/130565/epilepsy-seizures/norse-cryptogenic-new-onset>
76. **Maciel CB**, *Hirsch LJ*, Greer DM, Alkawadri R. Accurate Neuroprognostication in Cardiac Arrest survivors: Details Matter! *Resuscitation* 2017 Jun;115:e3-e4.
77. Beniczky S, Rubboli G, Aurlien H, *Hirsch LJ*, Trinkka E, Schomer DL; SCORE consortium. The new ILAE seizure classification: 63 seizure types? *Epilepsia* 2017 Jul;58(7):1298-1300.
78. **Maciel CB**, *Hirsch LJ**. Changing Cardiopulmonary Resuscitation to Cardiocerebral Resuscitation: The Reason We Push Hard and Fast. *Crit Care Med* 2018 May;46(5):823-825.
79. **Maciel CB**, *Hirsch LJ**. Definition and classification of periodic and rhythmic discharges. *J Clin Neurophysiol* 2018 May;35(3):179-188.
80. Alkawadri R, *Hirsch LJ**. Fast, Very Fast, Ultrafast, and Even Faster: How High Frequency Should We Be Recording on Intracranial EEG? *Epilepsy Curr* 2018 Jul-Aug;18(4):217-219.
81. **Fong MWK**, Gaspard N, *Hirsch LJ**. Generalized Periodic Discharges With and Without Triphasic Morphology. *J Clin Neurophysiol* 2019 Mar;36(2):173-174.
82. **Tolchin B**, Martino S, *Hirsch LJ**. Treatment of Patients with Psychogenic Nonepileptic Attacks. *JAMA* 2019 May;321(20):1967-1968.
83. Jobst BC, Ben-Menachem E, Chapman KE, Fu A, Goldman A, *Hirsch LJ*, Jehi LE, Kossoff EH, Plueger M, Rho JM, Schevon CA, Shinnar S, Sperling MR, Simeone TA, Wagner JL, Lado F. Highlights From the Annual Meeting of the American Epilepsy Society 2018. *Epilepsy Curr* 2019 May-Jun;19(3):152-158.
84. Rossetti AO, *Hirsch LJ*, Drislane FW. Nonconvulsive seizures and nonconvulsive status epilepticus in the neuro ICU should or should not be treated aggressively: A debate. *Clin Neurophysiol Pract* 2019 Aug 9;4:170-177.
85. **Tolchin B**, Martino S, *Hirsch LJ*. Pathophysiology of Psychogenic Nonepileptic Attacks-Reply. *JAMA* 2019 Oct 1;322(13):1315-1316.
86. **Tolchin B**, Dworetzky BA, Martino S, Blumenfeld H, *Hirsch LJ*, Baslet G. Author response: Adherence with psychotherapy and treatment outcomes for psychogenic nonepileptic seizures. *Neurology* 2019 Nov 26;93(22):981.
87. Gofton TE, *Hirsch LJ*. Author response: New onset refractory status epilepticus research: What is on the horizon?. *Neurology* 2020 (Mar);94(13):596.
88. **Tolchin B**, *Hirsch LJ*, LaFrance WC Jr. Neuropsychiatric Aspects of Epilepsy. *Psychiatr Clin North Am* 2020 (Jun);43(2):275-290.
89. **Blond BN**, *Hirsch LJ*, Mattson RH. Misperceptions on the chance of seizure freedom with antiseizure medications after two failed trials. *Epilepsia* 2020. Online ahead of print.
90. Wu K, *Hirsch LJ*, Babl FE, Josephson SA. Choosing Anticonvulsant Medications to Manage Status Epilepticus. *N Engl J Med* 2020 (Jun);382(26):2569-2572.

91. Mauritz M, Chin R, Camfield C, Nardone R, Lattanzi S, *Hirsch LJ*, Trinkka E. Acute Symptomatic Seizures. *Epileptic Disorders*. In preparation.
92. **Bravo P**, *Hirsch LJ*. Treatment of nonconvulsive status epilepticus. *Drugs*. In preparation.

BOOKS:

1. *Hirsch LJ*, Brenner RP. Atlas of EEG in Critical Care. London: Wiley. 2010.
2. *Hirsch LJ*, Brenner RP. Atlas of EEG in Critical Care, 2nd ed. London: Wiley. In preparation.

BOOK CHAPTERS:

1. *Hirsch LJ*. Epilepsy and Seizure Disorders. In: Marshall RS, Mayer SA, eds. On Call: Neurology. Philadelphia: W.B. Saunders Co., 2001: 351-368.
2. **Claassen J**, *Hirsch LJ*, Mayer SA. Critical care management of refractory status epilepticus. In: Yearbook of Intensive Care and Emergency Medicine. Berlin: Springer, 2002: 754-64.
3. *Hirsch LJ*, Pedley TA. Perioperative Seizures: Prevention and Management. In: Batjer HH, Loftus CM, eds. Textbook of Neurological Surgery: Principles and Practice. Philadelphia: Lippincott Williams and Wilkins, 2003:741-753.
4. *Hirsch LJ*, Ziegler DK, Pedley TA. Seizures, syncope and their mimics. In: Rowland LP, ed. Merritt's Neurology, 11th edition. New York: Lippincott Williams and Wilkins, 2005:13-20.
5. *Hirsch LJ*. Epilepsy and Seizure Disorders. In: Marshall RS, Mayer SA, eds. On Call: Neurology. 3rd ed. Philadelphia: W.B. Saunders Co, 2007:369-386.
6. **Claassen J**, *Hirsch LJ**. ICU EEG monitoring for vasospasm and other focal cortical disorders. In: Nuwer MR, ed. Intraoperative Monitoring of Neural Function. Handbook of Clinical Neurophysiology, Volume 8. New York: Elsevier, 2008:864-880.
7. *Hirsch LJ*, Pedley TA. Goals of Therapy. In: Engel J, Pedley TA, eds. Epilepsy: A Comprehensive Textbook, 2nd ed. New York: Lippincott, Williams and Wilkins, 2008:1125-1128.
8. *Hirsch LJ*, Andermann F, Pedley TA. Differential Diagnosis. In: Engel J, Pedley TA, eds. Epilepsy: A Comprehensive Textbook, 2nd ed. New York: Lippincott, Williams and Wilkins, 2008:773-782.
9. Bleck T, *Hirsch LJ*, Vespa P. Electroencephalography in the intensive care unit. In: Engel J, Pedley TA, eds. Epilepsy: A Comprehensive Textbook, 2nd ed. New York: Lippincott, Williams and Wilkins, 2008:855-862.
10. *Hirsch LJ*, Pedley TA. Convulsive and Nonconvulsive Status Epilepticus. In: Loftus C, ed. Neurosurgical Emergencies, 2nd edition. New York: Thieme, 2008: 151-158.
11. **Abou Khaled KJ**, *Hirsch LJ**. Treatment of the hospitalized patient with new-onset seizures. In French JA, Delanty N, eds. Therapeutic Strategies in Epilepsy. Oxford: Clinical Publishing, 2009:213-228.

12. **Jirsch J**, *Hirsch LJ**. Nonconvulsive status epilepticus in critically ill and comatose patients in the intensive care unit. In: Drislane F, Kaplan P, eds. Nonconvulsive Status Epilepticus. New York: Demos Medical Publishing, 2009:175-188.
13. Claassen J, *Hirsch LJ*. Status Epilepticus. In: Frontera J, ed. Decision Making in Neurocritical Care. New York: Thieme Medical Publishers, 2009:63-75.
14. **Arif H**, Mendiratta A, *Hirsch LJ**. Management of Epilepsy in the Elderly. In: Shorvon S, Perucca E, Engel J, eds. The Treatment of Epilepsy, 3rd ed. Oxford: Blackwell Publishing, 2009:203-217.
15. **Friedman D**, *Hirsch LJ*. Diagnosing and monitoring seizures in the ICU: The role of continuous EEG for detection and management of seizures in critically ill patients. In: Varelas P, ed. Seizures in Critical Care: a guide to Diagnosis and Therapeutics, 2nd ed. New York: Humana Press, 2010:21-47.
16. **Patterson SK**, Kull LL, *Hirsch LJ*. Continuous EEG in the intensive care unit: Indications and procedures. In: Fisch BJ, ed. Epilepsy and Intensive Care Monitoring. New York: Demos, 2010: 11-23.
17. **Rampal N**, *Hirsch LJ**. Events that mimic seizures during ICU monitoring. In: Fisch BJ, ed. Epilepsy and Intensive Care Monitoring. New York: Demos, 2010:249-257.
18. **Claassen J**, *Hirsch LJ*. Stroke and subarachnoid hemorrhage. In: Fisch BJ, ed. Epilepsy and Intensive Care Monitoring. New York: Demos, 2010: 339-351.
19. **Arif H, Claassen J, Hirsch LJ***. Continuous EEG: Applications and Value. In: Youman's Textbook of Neurological Surgery. In press.
20. *Hirsch LJ*, Pedley TA. Syncope, seizures and their mimics. In: Rowland LP, Pedley TA, eds. Merritt's Neurology, 12th edition. New York: Wolters Kluwer Health/Lippincott Williams and Wilkins, 2010:15-21.
21. Gerard E, *Hirsch LJ**. Generalized myoclonic status epilepticus. In: Panayiotopoulos CP, ed. Atlas of Epilepsies. London: Springer-Verlag 2010:523-531.
22. **Claassen J, Hirsch LJ***. Refractory Status Epilepticus. In: Sirven JI, Stern JM, eds. Atlas of Video – EEG Monitoring. New York: McGraw-Hill, 2011: 473-505 .
23. **Gaspard N, Hirsch LJ***. Alternative therapies for refractory status epilepticus. In: Laroche SM, ed. Handbook of ICU EEG monitoring. New York: Demos Medical, 2013: 279-288.
24. **Gaspard N, Hirsch LJ***. EEG monitoring in the ICU: Future directions. In: Laroche SM, ed. Handbook of ICU EEG monitoring. New York: Demos Medical, 2013:323-326.
25. **Gaspard N, Hirsch LJ***. Recognizing, assessing and treating seizures and status epilepticus in the ICU. In: Miller JW and Goodkin HP, eds. Epilepsy (Neurology in Practice Series), Wiley, 2014:227-242.
26. *Hirsch LJ, Gaspard N*. ICU EEG. In: Tatum WO, ed. Handbook of EEG Interpretation. Demos, 2014:191-230.
27. Sinha S, *Hirsch LJ**. EEG monitoring in the ICU. In: Ebersole J, Nordli D, Husain A, eds. Current Practice of Clinical EEG. Wolters Kluwer Health, 2014:543-598.

28. **Gaspard N**, Gilmore E, *Hirsch LJ**. Electroencephalogram monitoring of vasospasm. In: Bulsara K, Gilmore E, eds. Contemporary Understanding and Management of Cerebral Vasospasm: A Practical Guide. Jaypee Medical, 2015:62-69.
29. **Haider HA**, *Hirsch LJ**. Epilepsy in the elderly. In: Shorvon S, Perucca E, Engel J, eds. The Treatment of Epilepsy, Fourth Edition. Wiley Blackwell, 2016: 205-220.
30. **Saxena A**, *Hirsch LJ**. Patterns of uncertain significance. In: Husain A, Sinha S, eds. Continuous EEG Monitoring: Principles and Practice. Springer, 2017: 135-151.
31. **Macgrory B**, *Hirsch LJ*, Gilmore E, Sheth KN. Management of postoperative seizures. In: Kumar, Kofke, Levine & Schuster, eds. Neurocritical Care Management of the Neurosurgical Patient. Elsevier, 2017: 497-508.
32. **Osman G**, Friedman D, *Hirsch LJ**. Diagnosing and Monitoring seizures in the ICU: The role of continuous EEG for detection and management of seizures in critically ill patients, including the ictal interictal continuum. In: Varelas P and Claassen J, eds. Seizures in Critical Care, 2nd edition. Springer Nature, 2017, 31-49.
33. **Dhakar M**, *Hirsch LJ**. Continuous EEG Monitoring and Status Epilepticus. In: Drislane FW and Kaplan PW, eds. Status Epilepticus: a clinical perspective, 2nd ed. Humana Press, 2017: 283-298.
34. **Fu A**, *Hirsch LJ**. Status Epilepticus. In: Loftus C, ed. Neurosurgical Emergencies, 3rd ed. Thieme Publishers, 2017.
35. **Blond B**, *Hirsch LJ**. Chronic ambulatory EEG with implanted electrodes. In: Tatum WO, ed. Ambulatory EEG Monitoring. Demos Medical, 2017: 155-178.
36. Moeller J, *Hirsch LJ**. Diagnosis and Classification of Seizures and Epilepsy. In: H. Richard Winn, ed. Youmans and Winn's Neurological Surgery, Elsevier, 2017.
37. **Osman GM**, Riviello JJ, *Hirsch LJ**. EEG in the ICU: Anoxia, Coma, Brain death and related disorders. In: da Silva FL, Schomer D, eds. Neidermeyer's Electroencephalography: Basic Principles, Clinical Applications, and Related Fields. 7th edition. Oxford University Press, 2018, 610-658.
38. Abend N, *Hirsch LJ*. EEG Monitoring in the ICU: Future Directions. In: Haider HA, Laroche, SM, eds., Handbook of ICU EEG Monitoring, 2nd edition, Demos Medical, 2018:381-386.
39. Rampal N, **Maciel CM**, *Hirsch LJ**. EEG and Artifact in the Intensive Care Unit. In: Tatum WO, ed. Atlas of Artifact in Clinical Neurophysiology. Springer Publishing Company, 2019:59-94.
40. Gilmore E, *Hirsch LJ**. Seizures and status epilepticus in the general medical/surgical ICU. In: Frontera J, ed. Decision Making in Neurocritical Care. In press.
41. **Fernandez A**, Claassen J, *Hirsch LJ**. Status epilepticus. In: Frontera J, ed. Decision making in neurocritical care. In press.
42. Haider HA, Laroche SM, *Hirsch LJ*. Near-ictal periodic discharges through the lens of processed EEG: The ictal-interictal continuum revisited. In: Kapinos G, ed. Quantitative EEG in critical care. In press.
43. Gaspard N, *Hirsch LJ*. ICU EEG. In: Tatum WO, ed. Handbook of EEG Interpretation. Demos, in press.

44. Munger-Clary H, Moeller J, *Hirsch LJ*. Management of anti-seizure medication initiation. In: Engel J Jr., Moshe SL, eds. Epilepsy: A Comprehensive Textbook, 3rd edition. In press.
45. **Fong MWK**, *Hirsch LJ*, Bleck TP. EEG in the Intensive Care Unit. In: Engel J Jr., Moshe SL, eds. Epilepsy: A Comprehensive Textbook, 3rd edition. In press.

OTHER PUBLICATIONS/PRESENTATIONS including podcasts, videos, webinars, etc:

1. AT&T Information Systems proprietary material: *Hirsch LJ*. High-performance Lempel-Ziv data compression algorithms. Engineer's notes, August 30, 1984. (Developed software to implement and assess high performance data compression algorithms; final version available to all users on UNIX System V.)
2. Undergraduate independent study project report: *Hirsch LJ*. Three-dimensional region of interest image analysis. Positron Emission Tomography group, Nuclear Medicine division, Dept. of Radiology, Hospital of the University of Pennsylvania, 1986. (Developed software to analyze brain PET scans three dimensionally.)
3. M.D. Thesis: *Hirsch LJ*. Bitemporal epilepsy defined by depth electroencephalography: comparison with unitemporal epilepsy and selection of patients for temporal lobectomy. Yale University School of Medicine thesis, 1990.
4. *Hirsch LJ*. Book review of: Schachter S, ed: Epilepsy: Problem solving in clinical practice. *Neurology* 2000;55:1070.
5. *Hirsch LJ*. Book review of: Delanty N, ed. Seizures: Medical Causes and Management. *Lancet* 2002;359:2044.
6. *Hirsch LJ*. Editor/consultant. Epilepsy Senior Care Initiative, Postgraduate Institute of Medicine, 2003.
7. *Hirsch LJ*. Book review of: Rowan J, Tolunsky E. Primer of EEG, with a Mini-Atlas. *Neurocrit Care* 2004;1:247.
8. *Hirsch LJ*, Sirven J. "Status Epilepticus". 30 minute podcast on Epilepsy.com, August 2009. http://professionals.epilepsy.com/page/hallway_2009_podcasts.html
9. *Hirsch LJ*. "Epilepsy". One hour video lecture in Martin Samuels, ed. Comprehensive Review of Neurology (DVD). Oakstone Publishing: 2013.
10. *Hirsch LJ*. "Status Epilepticus". 30 minute podcast for Continuum Audio, 2013.
11. *Hirsch LJ*, *Kossoff E*. Responsive Neurostimulation Webinars, for epileptologists, sponsored by Neuropace, Inc. 3 webinars in 2014.
12. *Hirsch LJ*, Cole A. "Management of the patient with refractory epilepsy". Platform Q Neuroseries Live. Interactive Webinar. 2014. <https://event.webcasts.com/viewer/directLink.jsp?ei=1038969>
13. *Hirsch LJ*, Moeller J. "Selecting and tailoring antiepileptic drug therapies: steps for maximizing success". Platform Q Neuroseries Live. Interactive Webinar. 2014. <https://event.webcasts.com/viewer/directLink.jsp?ei=1038967>

14. *Hirsch LJ*. American Epilepsy Society highlights video. ICU-EEG monitoring. 2014
15. *Hirsch LJ*. Highlights from the American Epilepsy Society meeting, Healthcasts. 2014
www.healthcasts.com
16. *Hirsch LJ*. “Sudden Unexpected Death in Epilepsy”. One hour video lecture in Martin Samuels, ed. Comprehensive Review of Neurology (DVD). Oakstone Publishing: 2015.
17. *Hirsch LJ*. Highlights from the American Epilepsy Society meeting, Healthcasts. 2016
www.healthcasts.com
18. *Hirsch LJ*, Sirven J. New Onset Refractory Status Epilepticus (NORSE). Podcast. 20 minute podcast on Epilepsy.com, Oct 2015. <http://www.epilepsy.com/article/2015/10/norse-new-onset-refractory-status-epilepticus>
19. *Hirsch LJ*. Webinar: New Insights with the Responsive Neurostimulation System, for epileptologists, sponsored by Neuropace. April 2016.
20. *Hirsch LJ*, Shafer P, et al. Status Epilepticus Educational video, sponsored by the Epilepsy Foundation, in editing. 2016
21. *Hirsch LJ*, Shih J, Sperling M. Epilepsy Roundtable. Web CME program, sponsored by Medscape. 6/2016.
<http://www.medscape.org/viewarticle/864149>
22. *Hirsch LJ*. “Sudden Unexpected Death in Epilepsy”. One hour video lecture in Martin Samuels, ed. Comprehensive Review of Neurology (DVD). Oakstone Publishing: 2017.
23. *Hirsch LJ*. “Critical Care EEG Monitoring”. One hour video lecture in Martin Samuels, ed. Comprehensive Review of Neurology (DVD). Oakstone Publishing: 2017.
24. *Hirsch LJ*. “Update on EEG Terms and Descriptors for the Critically Ill, including the ACNS Terminology”. Webinar, co-sponsored by ASET and ACNS. 2017 (Nov).
25. *Hirsch LJ*. “Neurostimulation in the Treatment of Drug Resistant Epilepsy”. Webinar, sponsored by The Epilepsy Foundation. 2018 (Nov).
26. *Hirsch LJ*. “ICU-EEG”. Webinar. Swiss Neurology Webinar Series. 2019 (Jan)
27. *Hirsch LJ*. “Uncontrolled Epilepsy”. Medscape “Recap” video series. 2020 (Feb)
<https://reference.medscape.com/recap/923441>
28. *Hirsch LJ* and Gerrard J. Webinar. “Deep brain stimulation for epilepsy”. Epilepsy Foundation of Connecticut. 2020 (April).
29. *Hirsch LJ*. Webinar. “Mesial temporal lateralization in the real world: selecting resection candidates using RNS data”. Neuropace, Inc. 2020 (April).
30. *Hirsch LJ* and Khozein R. Webinar. “SARS-CoV-2, COVID-19: implications in clinical neurophysiology. American Society of Electroneurodiagnostic Technologists (ASET). 2020 (April).
<https://www.aset.org/i4a/pages/index.cfm?pageid=4335>

SELECTED ABSTRACTS (all presented at scientific meetings):

1. *Hirsch LJ, Spencer SS, Spencer DD, Williamson PD, Mattson RH.* Criteria for and results of temporal lobectomy in patients with independent bilateral temporal lobe seizure onsets on depth EEG. *Epilepsia* 1989; 30: 703. (Presented at the American Epilepsy Society meeting in Boston, December 1989.)
2. *Hirsch LJ, Spencer SS, Williamson PD, Spencer DD, Mattson RH.* Characteristics of patients with independent bilateral temporal lobe seizure onsets on depth EEG. *Epilepsia* 1989; 30: 721. (Presented at the American Epilepsy Society meeting in Boston, December 1989.)
3. *Hirsch LJ, Hamberger MJ, Walczak TS.* Incorporating memory confidence ratings into a Wada scoring system. *Epilepsia* 1996; 37 (Suppl 5): 134. (Presented at the American Epilepsy Society meeting in San Francisco, December 1996.)
4. *Hirsch LJ, Turner CA, Emerson RG, Goodman RR, Forgione M, Crispin D, Walczak TS, Bazil CW, Pedley TA.* Prolonged "postictal" aphasia: Demonstration of persistent ictal activity with intracranial electrodes. *Epilepsia* 1997;38 (Suppl 3):143. (Presented at the 22nd International Epilepsy Congress in Dublin, Ireland, June 1997.)
5. *Hirsch LJ, Turner CA, Emerson RG, Resor SA, Forgione M, Crispin D, Walczak TS, Bazil CW, Goodman RR.* Computer averaging of hippocampal epileptiform discharges recorded simultaneously with scalp, subdural and depth electrodes. *Epilepsia* 1997;38 (Suppl 3):143.
6. *Hirsch LJ, Lain AH, Walczak TS.* Postictal nose-wiping lateralizes and localizes to the ipsilateral temporal lobe. *Neurology* 1997; 48: A241. (Presented at the A.A.N. meeting in Boston, April 1997.)
7. *Shih TT, Hirsch LJ, Devinsky O.* Nonepileptic seizures in patients with systemic lupus erythematosus (SLE) and abnormal brain SPECT. *Epilepsia* 1999;40 (Suppl 7), 90. (presented at the American Epilepsy Society meeting 12/99).
8. *McBride A, Shih TT, Resor SR Jr, Bazil C, Hirsch LJ*.* Video-EEG monitoring in the elderly: a review of 99 patients. *Epilepsia* 1999;40 (Suppl 7): 220. (presented at the American Epilepsy Society meeting 12/99).
9. *Mendiratta A, Hirsch LJ*.* Epileptic angina: a case study with ictal EEG recording. *Epilepsia* 2000;41(Suppl. 7):110. (presented at the 12/00 American Epilepsy Society meeting in Los Angeles).
10. *Claassen J, Hirsch LJ, Mayer SA, Bates JE, Thompson TM, Emerson RG.* Aggressive intravenous therapy of nonconvulsive status epilepticus: harmful or beneficial? *J Clin Neurophysiol* 2001. (presented at the American Clinical Neurophysiology Society meeting, Montreal, 9/2000)
11. *Claassen J, Hirsch LJ, Mayer SA, Bates JE, Thompson TB, Emerson RG.* Does the absence of epileptiform discharges rule out prior status epilepticus? *J Clin Neurophysiol* 2001. (presented at the American Clinical Neurophysiology Society meeting, Montreal, 9/2000)
12. *Claassen J, Mayer SA, Hirsch LJ, Bates JE, Dennis LJ, Emerson RG.* Nonconvulsive status epilepticus and electrographic seizures predict mortality in the neurological intensive care unit. *J Clin Neurophysiol* 2001. (presented at the American Clinical Neurophysiology Society meeting, Montreal, 9/2000)
13. *Hirsch LJ, Claassen J, Mayer SA, Emerson RG.* Systematic design of a prognostic scale for ICU patients with highly epileptiform EEGs. *Epilepsia* 2001; 42 (Suppl 7):25-6. (presented at the 12/01 American Epilepsy Society meeting in Philadelphia)
14. *Opherck C, Hirsch LJ*.* Ictal heart rate differentiates epileptic from non-epileptic seizures. *Epilepsia* 2001; 42 (Suppl 7):138. (presented at the 12/01 American Epilepsy Society meeting in Philadelphia)
15. *Claassen J, Hirsch LJ, Emerson RG, Mayer SA.* Treatment of Refractory Status Epilepticus with Pentobarbital, Propofol, or Midazolam: A Systematic Review. *Epilepsia* 2001; 42 (Suppl 7):214-5. (presented at the 12/01 American Epilepsy Society meeting in Philadelphia).
16. *Opherck C, Hirsch LJ, Coromilas J.* Heart rate and EKG-changes in 102 seizures: role of seizure type, seizure duration, age, AED regimen, location of onset and preictal state of consciousness. *Neurology* 2001, 56 (Suppl 3):A47. (presented at the 5/2001 American Academy of Neurology meeting in Philadelphia).
17. *Aranda A, Hirsch LJ, Adams DJ, Claassen J, Resor SR Jr.* Toxicity associated with lamotrigine levels: results from the Columbia Antiepileptic Drug Database. *Neurology* 2001, 56 (Suppl 3):A334. (presented at the 5/2001 American Academy of Neurology meeting in Philadelphia).

18. Dennis LJ, Mayer SA, Connolly ES, **Claassen J**, *Hirsch LJ*, Thompson T, Emerson RG. Nonconvulsive status epilepticus after subarachnoid hemorrhage. *Stroke* 2001; 32 (1): 349. (presented at the 2/2001 American Heart Association International Stroke Conference in Ft. Lauderdale, Florida)
19. **Choi H, Claassen J**, Mayer S, *Hirsch LJ**. Continuous EEG monitoring in patients with spontaneous intracerebral hemorrhage. *Epilepsia* 2002; 43 (Suppl 7): 39. (Presented at the American Epilepsy Society meeting in Seattle, 12/2002).
20. **Claassen J**, Mayer S, *Hirsch LJ**. Quantitative continuous EEG analysis for the detection of delayed cerebral ischemia in patients with poor-grade subarachnoid hemorrhage. *Epilepsia* 2002;43 (Suppl 7):45. (presented at the American Epilepsy Society meeting in Seattle, 12/2002).
21. *Hirsch LJ, Claassen JA*, Emerson RG. Beware the SRPIDs: Stimulus-Responsive Pseudo-Ictal Discharges are a common and important EEG pattern in critically ill patients. *Epilepsia* 2002;43 (Suppl 7):283-4. (presented at the American Epilepsy Society meeting in Seattle, 12/2002).
22. **Shih TT, Mendiratta A**, Resor SR Jr, *Hirsch LJ** Tonic-absence seizures: an under-recognized seizure type. *Epilepsia* 2002;43 (Suppl 7): 153. (presented at the American Epilepsy Society meeting in Seattle, 12/2002).
23. **Schevon CA, Knupp K**, *Hirsch LJ*, Emerson RG. Use of compressed spectral array as an adjunct for interpreting long term EEG monitoring. *J Clin Neurophysiol* 2003;20:221-221. (presented at the American Clinical Neurophysiology Society meeting in New Orleans, 9/2002).
24. *Hirsch LJ, Claassen J*, Emerson RG. Ictal-appearing EEG patterns induced by alerting stimuli in 18 encephalopathic patients. *J Clin Neurophysiol* 2003;20:221. (presented at the American Clinical Neurophysiology Society meeting in New Orleans, 9/2002).
25. *Hirsch LJ, Claassen J*. Brainstem seizures: a case with video/EEG monitoring and ictal SPECT. *J Clin Neurophysiol*, in press (presented at the American Clinical Neurophysiology Society meeting in New Orleans, 9/2002).
26. *Hirsch LJ, Claassen J*, Adams DJ, **Aranda A**, Resor S. Lamotrigine use and serum levels in older patients. *Neurology* 2002;58(Suppl 3):A296. (presented at the American Academy of Neurology meeting in Denver, 4/2002.)
27. **Claassen J**, Peery S, Kreiter KT, *Hirsch LJ*, Connolly ES, Mayer SA. Epilepsy after subarachnoid hemorrhage: predictors and impact on outcome and quality of life. *Neurology*, 2002;58(Suppl 3):A256. (presented at the American Academy of Neurology meeting in Denver, 4/2002)
28. *Hirsch LJ*, Treiman D, Drislane F. Nonconvulsive status epilepticus and ICU EEG monitoring. *Epilepsia* 2003;44 (Suppl 9):4. (Presented at an Investigator's Workshop, American Epilepsy Society meeting, Boston, December 2003.)
29. *Hirsch LJ, Weintraub D*, Du Y, Buchsbaum R, **Spencer HT, Hager M, Straka T, Salas-Humara C**, Resor SR Jr, Bazil CW, Morrell MJ. Lamotrigine tolerability and serum blood levels in 137 older adults and comparison to 383 younger adults. Presented at the International Geriatric Epilepsy Symposium, Miami FL, September 2003.
30. **Wittman JJ, Claassen J, Hirsch LJ**, Emerson RG. Stimulus-responsive potentially ictal discharges: risk factors and relationship to clinical seizures. *Muscle and Nerve* 2003 (Suppl 12):S169. (Presented at the American Clinical Neurophysiology meeting, San Francisco, September 2003.)
31. **Weintraub D**, Du Y, Buchsbaum R, Bazil CW, Adams DJ, Resor SR Jr., *Hirsch LJ**. Toxicity associated with zonisamide and its serum concentrations. *Epilepsia* 2003;44 (Suppl 8):41. (Presented at the International Epilepsy Congress meeting, Lisbon, Portugal, October 2003.)
32. *Hirsch LJ, Claassen JA*, Buchsbaum R, Adams DJ, **Spencer HT**, Bazil CW, Resor SR Jr. Predicting rash from lamotrigine: results from review of 812 patients. *Epilepsia* 2003;44 (Suppl 9):277. (Presented at the American Epilepsy Society meeting in Boston, MA, December 2003.)
33. **Butler T**, Bazil CW, Goodman RR, *Hirsch LJ*, Leary LD, Karceski SC, Morrell MJ. Therapeutic implantation of intracranial electrodes. *Epilepsia* 2003, 44(Suppl 9):332. (Presented at the American Epilepsy Society meeting in Boston, MA, December 2003.)
34. Vossler D, Doherty M, Goodman R, *Hirsch LJ*, Young J, Kraemer D. Early safety experience with a fully implanted intracranial responsive neurostimulator for epilepsy. *Epilepsia*, 2004;45 (Suppl 7):150-151. Presented at the American Epilepsy Society meeting, New Orleans, 2004.

35. **Hirsch LJ, Weintraub D, Spencer H, Salas-Humara C**, Bazil CW. Predictors of Cognitive Side Effects in Patients with Epilepsy. *Epilepsia* 2004;45 (Suppl 7): 102. Presented at the American Epilepsy Society meeting, New Orleans, 2004.
36. **Weintraub D, Hirsch LJ**, Buchsbaum R, Resor SR Jr. Tolerability of topiramate in 342 patients: analysis by dose and serum concentration. *Epilepsia* 2004;45 (Suppl 7):137. Presented at the American Epilepsy Society meeting, New Orleans, 2004.
37. **Cantero J, Weintraub D**, Buchsbaum R, **Hirsch LJ**. Cosmetic Side Effects of the Antiepileptic Drugs. *Epilepsia* 2004;45 (Suppl 7):306-307. Presented at the American Epilepsy Society meeting, New Orleans, 2004.
38. **Jette N, Claassen J, Wittman J**, Emerson RG, Hirsch LJ. Time to detection of first nonconvulsive seizure in critically ill children. *Epilepsia* 2004;45 (Suppl 7):90-91. Presented at the American Epilepsy Society meeting, New Orleans, 2004.
39. **Weintraub D**, Buchsbaum R, **Spencer HT, Hager M, Salas-Humara C, Straka T**, Bazil CW, Resor SR Jr., Morrell MJ, **Hirsch LJ***. Cognitive Side Effects of the Newer Antiepileptic Drugs: Results from the Columbia Antiepileptic Drug Database. *Neurology* 2004;62 (Suppl 5):A311. Presented at the American Academy of Neurology meeting, San Francisco, April 2004.
40. **Weintraub D**, Buchsbaum R, **Spencer HT, Hager M, Salas-Humara C, Straka T**, Bazil CW, Resor SR Jr., Morrell MJ, **Hirsch LJ***. Psychiatric Side Effects of the Newer Antiepileptic Drugs: Results from the Columbia Antiepileptic Drug Database. *Neurology* 2004;62 (Suppl 5):A309. Presented at the American Academy of Neurology meeting, San Francisco, April 2004.
41. **Hirsch LJ, Weintraub D**, Buchsbaum R, **Spencer HT, Hager M, Salas-Humara C, Straka T**, Bazil CW, Resor SR Jr., Morrell MJ. Predictors of Psychiatric Side Effects in Patients with Epilepsy. *Neurology* 2004;62 (Suppl 5):A310-311. Presented at the American Academy of Neurology meeting, San Francisco, April 2004.
42. **Salas-Humara C, Weintraub D**, Buchsbaum R, **Spencer HT, Hager M, Straka T**, Bazil CW, Resor SR Jr., Morrell MJ, **Hirsch LJ***. Comparative Incidence of Rash Related to Twelve Antiepileptic Drugs: Results from the Columbia Antiepileptic Drug Database. *Neurology* 2004;62 (Suppl 5):A352. Presented at the American Academy of Neurology meeting, San Francisco, April 2004.
43. **Weintraub D**, Buchsbaum R, **Spencer HT, Hager M, Straka T, Salas-Humara C**, Adams DJ, Bazil CW, Resor SR Jr., Morrell MJ, **Hirsch LJ***. Tolerability of levetiracetam in 516 patients: analysis by dose and serum concentration. *Epilepsia* 2004;45 (Suppl 3):68. Presented at the 6th European Congress on Epileptology, Vienna, Austria, 2004.
44. Varghese GI, McNally KA, Leven AR, **Hirsch LJ**, Tikofsky RS, Paige AL, Zubal IG, Spencer SS, Blumenfeld H. Comparisons between ictal and postictal changes in cerebral blood flow in secondarily generalized tonic-clonic seizures. *Epilepsia* 2005;46 (Suppl 8):58. Presented at the American Epilepsy Society meeting in Washington, D.C., December, 2005.
45. Bazil CW, **Weintraub D**, Buchsbaum R, **Lee J, Mandell D**, Resor SR, **Hirsch LJ***. Association of AEDs with insomnia. *Epilepsia* 2005;46 (Suppl 8):169-70. Presented at the American Epilepsy Society meeting in Washington, D.C., December, 2005.
46. Carlson C, Schevon C, Doyle W, Weiner H, Cappell J, Emerson R, **Hirsch LJ**, Goodman R, Devinsky O, Pacia S, Kuzniecky R. Time-frequency analysis as an adjunct to intracranial EEG interpretation. *Epilepsia* 2005;46 (Suppl 8):313. Presented at the American Epilepsy Society meeting in Washington, D.C., December, 2005.
47. **Pang T, Chang C**, Emerson RG, **Hirsch LJ***. Focal clinical seizures induced by alerting stimuli in encephalopathic patients. *Epilepsia* 2005;46 (Suppl 8):35. Presented at the American Epilepsy Society meeting in Washington, D.C., December, 2005.
48. **Jette N, Chum F, Claassen J, Schmidt M, Wittman J, Choi H, Kapinos G, Hirsch LJ***. Incidence and predictors of nonconvulsive seizures during continuous EEG monitoring in patients with acute intracerebral hemorrhage. *Epilepsia* 2005;46 (Suppl 8):34-35. Presented at the American Epilepsy Society meeting in Washington, D.C., December, 2005.
49. Palmese CA, Hamberger MH, **Weintraub D, Scarmeas N**, Choi H, **Hirsch LJ***. A randomized, double-blind, placebo-controlled trial of donepezil to improve memory in patients with epilepsy. *Epilepsia* 2005;45 (Suppl 8):265-6. Presented at the American Epilepsy Society meeting in Washington, D.C., December, 2005.
50. Mendiratta A, **Hirsch LJ**, Goodman RR, Vossler D, Chabolla D, Politsky J, Bergey GK, Smith J, Smith MC, Wharen RE, Doherty M, Gwinn R, Murro AM, Worrell GA, Cascino GD, Marsh RW, Cicora KM, Morrell MJ. Early safety experience with an implanted intracranial responsive cortical neurostimulator for treatment of epilepsy. *Neurology* 2005;64 (Suppl 1):A360. Presented at the American Academy of Neurology meeting in Miami, April 2005.
51. **Weintraub D**, Resor SR Jr., Bazil CW, **Hirsch LJ***. Head to head comparison of antiepileptic drug effectiveness in adults with epilepsy. *Neurology* 2005;64 (Suppl 1):A188. Presented at the American Academy of Neurology meeting in Miami, April 2005.

52. **Weintraub D**, Resor SR Jr., Bazil CW, *Hirsch LJ**. Head to head comparison of the sedating effect of antiepileptic drugs in adults with epilepsy. *Neurology* 2005;64 (Suppl 1):A114. Presented at the American Academy of Neurology meeting in Miami, April 2005.
53. **Jette N, Claassen J, Wittman J, Weintraub D**, Emerson RG, *Hirsch LJ**. Time to detection of first nonconvulsive seizure in critically ill children. *Neurocritical Care* 2005. Presented at the Neurocritical Care Society meeting, Scottsdale, AZ, February 2005.
54. **Jette N, Claassen J, Wittman J, Weintraub D**, Emerson RG, *Hirsch LJ**. Incidence and Predictors of Nonconvulsive Seizures in Critically ill Pediatric Patients on Continuous EEG Monitoring. *Neurocritical Care* 2005. Presented at the Neurocritical Care Society meeting, Scottsdale, AZ, February 2005.
55. *Hirsch LJ*. Continuous EEG Monitoring for Detection of Seizures and Ischemia in the Critically Ill: Overview. *J Clin Neurophysiol* 2005. Presented at the American Clinical Neurophysiology Society meeting, Montreal, 2004.
56. **Jette N, Claassen J, Wittman J, Weintraub D**, Emerson RG, *Hirsch LJ**. Incidence and Predictors of Nonconvulsive Seizures in Critically ill Pediatric Patients on Continuous EEG Monitoring. *J Clin Neurophysiol* 2005. Presented at the American Clinical Neurophysiology Society meeting, Montreal, 2004.
57. Goodman RR, *Hirsch LJ*, Choi H. Early Experience with an Implantable Intracranial Responsive Neurostimulator for the Treatment of Medically Refractory Epilepsy. *J Neurosurgery* 2005;103. Presented at the American Academy of Neurological Surgeons meeting, 2005.
58. McClelland S III, Shih TS, *Hirsch LJ*, Bazil CW, Hamberger MJ, McKhann GM II, Goodman RR. Experience with a Noninvasive Protocol for Anteromedial Temporal Lobectomy: 138 Consecutive Patients with Nonlesional Temporal Lobe Epilepsy. *J Neurosurgery* 103:A945. Presented at the American Academy of Neurological Surgeons meeting, 2005.
59. **Anderson CT**, Cappell J, Goodman RR, McKhann G, Emerson RG, *Hirsch LJ**. Circadian epileptiform patterns and seizure prediction modeling in six patients implanted with an ambulatory intracranial eeg device. *J Clin Neurophysiol* 2007;24:469. Presented at the American Clinical Neurophysiology Society meeting in Chicago, November 2006.
60. **Friedman DE**, Schevon C, Emerson RG, *Hirsch LJ**. Cyclic electrographic seizures in critically ill patients. *J Clin Neurophysiol* 2007;24:475. Presented at the American Clinical Neurophysiology Society meeting in Chicago, November 2006.
61. **Abou Khaled KJ**, Akman CI, *Hirsch LJ*, Lowe JP, **Alschuler D**, Emerson RG. Generalized periodic discharges in critically-ill children. *Epilepsia* 2006;47 (Suppl 4): Abstract 2.030. Presented at the American Epilepsy Society meeting in San Diego, December 2006.
62. Hauser WA, Akman CI, *Hirsch LJ*, **Jette N**, Emerson RG. Refractory status epilepticus in children: clinical course and short-term outcome. *Epilepsia* 2006;47 (Suppl 4):136-137. Presented at the American Epilepsy Society meeting in San Diego, December 2006.
63. Dratzkowski J, Barkley G, Bergey G, Worrell G, Chabolla D, Labar D, Duckrow R, Murro A, Smith M, Gwinn R, *Hirsch L*, Fisch B, Greenwood J, Morrell M. Health-Related Quality of Life Results in Adults with Intractable Epilepsy Implanted with the Cranially Based, Programmable RNS[trade] Responsive Neurostimulator. *Epilepsia* 2006;47 (Suppl 4): Abstract 1.092. Presented at the American Epilepsy Society meeting in San Diego, December 2006.
64. Barkley G, Smith B, Bergey G, Worrell G, Chabolla D, Dratzkowski J, Labar D, Duckrow R, Murro A, Smith M, Gwinn R, Fisch B, *Hirsch L*, Morrell M. Safety and Preliminary Efficacy of the RNS[trade] Responsive Neurostimulator for the Treatment of Intractable Epilepsy in Adults. *Epilepsia* 2006;47 (Suppl 4): Abstract A.12. Presented at the American Epilepsy Society meeting in San Diego, December 2006.
65. **Arif H**, Buchsbaum R, **Ferreri J, Whalen M, Sims J**, Resor SR Jr, Bazil CW, *Hirsch LJ**. Comparison of Antiepileptic Drug Retention rates in 413 Older Patients with Epilepsy. *Epilepsia* 2006;47 (Suppl 4): Abstract 2.119. Presented at the American Epilepsy Society meeting in San Diego, December 2006.
66. **Arif H**, Buchsbaum R, **Cabot J, Sulkowski J**, Resor SR Jr, Karceski SC, Bazil CW, *Hirsch LJ**. Cross-sensitivity of Rashes with Antiepileptic Drug use. *Epilepsia* 2006;47 (Suppl 4): Abstract 2.201. Presented at the American Epilepsy Society meeting in San Diego, December 2006.
67. McClelland S III, Garcia RE, Peraza DM, Shih TT, *Hirsch LJ*, Hirsch J, Goodman RR: Temporal Lobe Epilepsy Onset Before Age Six Continues To Impair Facial Fear Recognition Following Curative Nondominant Temporal Lobectomy. *J Neurosurgery* 2006;104:A658-9. Presented at the American Association of Neurological Surgeons Annual Meeting, 2006.

68. McClelland S III, Garcia RE, Peraza DM, Shih TT, *Hirsch LJ*, Hirsch J, Goodman RR: Temporal Lobe Epilepsy Onset After Age Five Does Not Alter Facial Emotion Recognition Following Curative Nondominant Temporal Lobectomy. *Epilepsia* 2006;47 (Suppl 4):344. Presented at the American Epilepsy Society Annual Meeting in San Diego, December 2006.
69. Claassen J, Bateman BT, Wiley JZ, Inati S, *Hirsch LJ*, Mayer SA, Sacco RL, Schumacher HC. Generalized convulsive status epilepticus after nontraumatic subarachnoid hemorrhage. *Ann Neurol* 2006;60 (Suppl. 10): S89.
70. Bateman BT, Claassen J, Wiley JT, *Hirsch LJ*, Mayer SA, Sacco RL, Schumacher HC. The epidemiology of generalized convulsive status epilepticus in acute hemorrhagic and ischemic stroke. *Ann Neurol* 2006;60 (Suppl. 10):S88.
71. Claassen J, *Hirsch LJ*, Frontera JA, Fernandez A, Schmidt M, Connolly ES, Emerson RG, Mayer SA. Prognostic significance of continuous EEG monitoring in poor-grade subarachnoid hemorrhage patients. *Ann Neurol* 2006;60 (Suppl. 10):S84-5.
72. **Abou Khaled K, Alschuler D, Jirsch J, Claassen J, Wittman J**, Emerson RG, *Hirsch LJ**. Generalized Periodic Discharges: prognostic significance and relation to seizures. *Neurology* 2006;66 (Suppl 2):A93. Presented at the American Academy of Neurology meeting, San Diego, CA, April 2006.
73. **Chong DJ**, Shih T, *Hirsch LJ*, **Vamadevan A, McNabb M**, Goodman RR, Gilliam F. In patients with hippocampal abnormalities on MRI, do the ictal and interictal EEG patterns matter? *Neurology* 2006;66 (Suppl 2):A343. Presented at the American Academy of Neurology meeting, San Diego, CA, April 2006.
74. Bergey G, Worrell G, Chabolla D, Zimmerman R, Labar D, *Hirsch LJ*, Duckrow R, Murro A, Smith M, Vossler D, Barkley G, Morrell M. Safety and preliminary efficacy of a responsive neurostimulator (RNS) for the treatment of intractable epilepsy in adults. *Neurology* 2006;66 (Suppl 2):A387. Presented at the American Academy of Neurology meeting, San Diego, CA, April 2006.
75. Waziri A, **Arif H**, Oddo M, Schmidt JM, **Claassen J**, Parra A, Badjatia N, Kull LL, **Abou Khaled KJ, Rampal N**, Emerson RG, Mayer SA, Connolly ES, *Hirsch LJ**. Early experience with a cortical depth electrode for ICU neurophysiological monitoring in patients with acute brain injury. *Epilepsia* 2007;48 (Suppl 6):208-209. Presented at the American Epilepsy Society meeting in Philadelphia, December 2007.
76. **Montenegro M, Arif H**, Resor SR Jr., *Hirsch LJ**. Experience with Clobazam as Add On Therapy for Refractory Epilepsy at a US Epilepsy Center. *Epilepsia* 2007;48 (Suppl 6):372. Presented at the American Epilepsy Society meeting in Philadelphia, December 2007.
77. Oddo M, **Abou-Khaled K**, Carrera E, Emerson RG, Kull LL, Toro E, Mayer SA, *Hirsch LJ**. Continuous EEG monitoring in the medical ICU. *Epilepsia* 2007;48 (Suppl 6): 401. Presented as a highlights platform presentation at the American Epilepsy Society meeting in Philadelphia, December 2007.
78. **Inati SK**, Inati SJ, Zhang X, Hirsch J, *Hirsch LJ**. An approach to the identification of seizure networks using resting state functional MRI. *Epilepsia* 2007;48 (Suppl 6):165. Presented at the American Epilepsy Society meeting in Philadelphia, December 2007.
79. **Arif H**, Buchsbaum R, **Sabin S, Laskey JR, Edwards AP, Peters K**, *Hirsch LJ**. Comparison of Antiepileptic Drug One-Year Retention rates in patients with Epilepsy and Mental Retardation. *Neurology* 2007;68(Suppl 1):A122. Presented at the American Academy of Neurology meeting in Boston, 2007.
80. **Claassen J, Jette N, Chum F, Green R**, Schmidt M, Choi H, Jirsch J, Frontera J, Connolly S, Emerson R, Mayer S, *Hirsch LJ**. Predictors and significance of electrographic seizures and periodic discharges after intracerebral hemorrhage. *Neurology* 2007;68(Suppl 1):A202. Presented at the American Academy of Neurology meeting in Boston, 2007. [Dr. Claassen received the Founders Award for this project and presentation]
81. Oddo M, Carrera E, **Claassen J, Abou-Khaled K**, Emerson RG, Kull LL, Mayer SA, *Hirsch LJ**. Prevalence and predictors of electrographic seizures in the medical intensive care unit. *Crit Care Med* 2007; 35 (12): A205. Presented at the annual meeting of the Society for Critical Care Medicine, 2008.
82. Oddo M, **Claassen J**, Carrera E, **Abou-Khaled K**, Emerson RG, Kull, LL, Mayer SA, *Hirsch, LJ**. Prognostic significance of continuous EEG monitoring in patients with severe sepsis admitted to the medical ICU. *Crit Care Med* 2007; 35 (12): A255. Presented at the annual meeting of the Society for Critical Care Medicine, 2008.

83. Arif H, Resor SR, Buchsbaum R, Hirsch LJ*. How high should antiepileptic drugs be pushed? *Epilepsia* 2008, poster 3.191. Presented at the annual meeting of the American Epilepsy Society, 2008. Young investigator award given to H Arif for this presentation.
84. Gerard E, Friedman D, McBrian D, Tu B, Hirsch LJ*. Ping-pong status epilepticus: an alternating form of cyclic seizures. *J Clin Neurophysiol* 2009. Presented at the annual meeting of the American Clinical Neurophysiology Society, Orlando, 2009.
85. Stuart M, Hirsch LJ*. Quantitative EEG from Intracranial Depth Electrode Recordings for Detection of Vasospasm in Patients with Poor-Grade Subarachnoid Hemorrhage. *J Neurosurgery* 2009. Presented at the American Association of Neurological Surgeons annual meeting, San Diego, CA, May, 2009.
86. So E, Hirsch LJ, Donner E, Noebels J, Jacobs M, Buchhalter J. Summary of the U.S. National Institute of Neurological Disorders and Stroke (NINDS) Workshop on SUDEP. Presented at the International Epilepsy Congress, Budapest, Hungary, 2009.
87. Stuart RM, Waziri A, Weintraub D, Schmidt M, Fernandez L, Helbok R, Kurtz P, Lee K, Badjatia N, Emerson RG, Mayer SA, Connolly ES, Hirsch LJ*. Intracortical EEG for the detection of vasospasm in patients with poor-grade subarachnoid hemorrhage. *Neurocrit Care* 2009; 11:S157. Presented at the Neurocritical Care Society annual meeting, New Orleans, LA, 2009.
88. Pargeon K, Friedman D, Chong D, Lennihan L, Schmitt S, Hirsch LJ*. Continuous EEG Characteristics in Patients with Anti-NMDA Receptor Antibodies. *J Clin Neurophysiol* 2011;28:91. Presented at the 2010 American Clinical Neurophysiology Society annual meeting, San Diego, CA, 2010.
89. Gilmore E, Burkart KM, Claassen J, Chong DH, Hirsch LJ*. The use of continuous EEG in sepsis-associated encephalopathy. *J Clin Neurophysiol* 2011;28:91. Presented at the 2010 American Clinical Neurophysiology Society annual meeting, San Diego, CA, 2010.
90. Claassen J, Schmidt J, Tu B, Ko S, Badjatia N, Lee K, Mayer S, Connolly S, Hirsch LJ. Seizures and quasi-ictal patterns on depth and scalp EEG monitoring after subarachnoid hemorrhage. *Epilepsia* Suppl, abstract 1.174, 2010. Available online at www.aesnet.org. Presented at the American Epilepsy Society annual meeting, San Antonio, TX, 2010.
91. Pargeon K, Resor S Jr., Gouras P, Zucker A, Tsang S, Hirsch LJ*. Long-term use of vigabatrin in adults with epilepsy. *Epilepsia* Suppl, abstract 2.196, 2010. Available online at www.aesnet.org. Presented at the American Epilepsy Society annual meeting, San Antonio, TX, 2010.
92. Tiedemann LM, Svoronos A, Buchsbaum R, Amar PG, Wingo ME, Resor SR Jr. and Hirsch LJ*. Use of rufinamide in adults with epilepsy. *Epilepsia* Suppl, abstract 2.390, 2010. Available online at www.aesnet.org. Presented at the American Epilepsy Society annual meeting, San Antonio, TX, 2010.
93. Mani R, Arif H, Hirsch LJ, Gerard E, LaRoche S and the **Critical Care EEG Monitoring Research Consortium**. Inter-rater reliability of ICU EEG Research Terminology. *J Clin Neurophysiol* 2011; 28:423. Presented at the 2011 American Clinical Neurophysiology Society Annual Meeting, New Orleans LA.
94. Nocero M, Svoronos A, Arif H, Resor SR Jr, Hirsch LJ*. Nasal midazolam as a seizure-aborting therapy and comparison with oral and rectal benzodiazepines in adults. *Neurology* 2011;76 (Suppl 4): A643. Abstract S55.006. Available online at www.aan.com. Presented as a platform presentation at the American Academy of Neurology annual meeting, Honolulu, HI, 2011.
95. Svoronos A, Cross CP, Karl MD, Dempsey K, Javed A, Buchsbaum R, Resor SR Jr, Hirsch LJ*. Efficacy, tolerability and retention of pregabalin in 200 adults with epilepsy. *Neurology* 2011;76 (Suppl 4): A618. Abstract P07.218. Available online at www.aan.com. Presented at the American Academy of Neurology annual meeting, Honolulu, HI, 2011.
96. Lee HW, Arora J, Papademetris X, Tokoglu F, Negishi M, Scheimost D, Farooque P, Goncharova I, Zaveri H, Duckrow RB, Hirsch LJ, Vives KP, Spencer DD, Blumenfeld H, Constable RT. New Insights into Epileptic Networks using fMRI Intrinsic Connectivity Mapping: Comparison with Intracranial Seizure Onset Zones. Abstract #3.277, 2011 American Epilepsy Society Annual Meeting, www.aesnet.org.
97. Svoronos A, Kilbride R, Mendoza L, Szaflarski JP, Carpenter A, Claassen J, Hirsch LJ and the **Critical Care EEG Monitoring Research Consortium**. Non-traditional therapies for prolonged refractory status epilepticus: A multicenter review. Abstract #3.211, 2011 American Epilepsy Society Annual Meeting, www.aesnet.org.

98. **Svoronos A, Hirsch LJ***. Infections are more common with most AEDs than placebo. Abstract #1.272, 2011 American Epilepsy Society Annual Meeting, www.aesnet.org.
99. **Varma JK, Moeller JJ, Hirsch LJ***. Bilateral independent periodic lateralized epileptiform discharges in 84 patients: outcomes, seizures and clinical correlates. Abstract #1.124, 2011 American Epilepsy Society Annual Meeting, www.aesnet.org.
100. Mani R, Gaiieski DF, Bunch M, Herman ST, Cocchi ST, Donnino M, **Gilmore E, Svoronos A, Hirsch LJ**, Gerard E, Sen-Gupta I, Floyd A, LaRoche S and the **Critical Care EEG Monitoring Research Consortium**. Continuous EEG for prognosis in post-cardiac arrest adults treated with therapeutic hypothermia. Abstract #1.121, 2011 American Epilepsy Society Annual Meeting, www.aesnet.org.
101. Kilbride R, **Svoronos A**, Mendoza L, Szaflarski J, **Hirsch LJ*** and the **Critical Care EEG Monitoring Research Consortium**. Clinical outcomes following prolonged refractory status epilepticus. Abstract #1.196, 2011 American Epilepsy Society Annual Meeting, www.aesnet.org.
102. Szaflarski J, **Svoronos A**, Mendoza L, Kilbride R, **Hirsch LJ*** and the **Critical Care EEG Monitoring Research Consortium**. EEG and neuroimaging features of patients in prolonged status epilepticus. Abstract #1.119, 2011 American Epilepsy Society Annual Meeting, www.aesnet.org.
103. Kasoff W, Zaveri HP, Duckrow RB, **Hirsch LJ**, Vives KP, Spencer SS, Spencer DD. Expanded spatial sampling of the epileptic brain: adapting intracranial monitoring for a network theory of seizure generation. Abstract #3.322, 2011 American Epilepsy Society Annual Meeting, www.aesnet.org.
104. Lee HW, Han XW, Farooque P, Jhun S, Goncharova I, Zaveri H, Vives K, Spencer D, Duckrow R, **Hirsch L**, Blumenfeld H. A Novel Approach to Visualize Intracranial EEG: 3D Color Movies of EEG Power for Seizure Localization. Abstract #3.119, 2011 American Epilepsy Society Annual Meeting, www.aesnet.org.
105. Tu B, **Hirsch LJ**, Bazil CW, Hamberger M. Digital analysis of EEGs recorded during Wada tests. Presented at the annual meeting of the Society for Neuroscience, 2011.
106. **Ezeani CC**, Friedman D, Detyniecki K, Hamid H, Spencer DD, **Hirsch LJ**, Devinsky O. Sudden unexpected death in the multicenter study of epilepsy surgery outcomes. Presented at the first Partners Against Mortality in Epilepsy (PAME) Conference, Chicago IL, 2012.
107. Pan J, Hetherington H, Resor SR, **Hirsch LJ**, Duckrow RB, Spencer DD. 7T MR spectroscopic imaging for localization-related epilepsy. Platform presentation at the American Epilepsy Society annual meeting, San Diego CA 2012.
108. **Dempsey K, Hirsch LJ, Ezeani CC**, Buchsbaum R, Choi H. Outcomes in Epilepsy Patients on High Dose Levetiracetam. Poster presentation at the American Epilepsy Society annual meeting, San Diego CA 2012.
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.
https://www.aesnet.org/meetings_events/annual_meeting_abstracts/
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. **Figuroa 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. Drazkowski, 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, Drazkowski 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, Drazkowski 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.
171. **Osman G, Rahangdale R**, ... *Hirsch LJ*, Gaspard N. Electrographic predictors of electrographic seizures and electrographic status epilepticus in patients with bilateral independent periodic discharges: a retrospective multi-center study. Presented at the American Epilepsy Society's 72nd Annual Meeting, New Orleans, LA, Dec 2019, www.aesnet.org/annual_meeting, abstr. 3.125.
172. **Owusu KA, Dhakar MB**, McKimmy D, Bautista C, **Maciel CB**, *Hirsch LJ*, Farouque P. Comparison of intranasal midazolam versus intravenous lorazepam for seizure rescue in the adult epilepsy monitoring unit. Presented at the American Epilepsy Society's 72nd Annual Meeting, New Orleans, LA, Dec 2019, www.aesnet.org/annual_meeting, abstr. 3.298.
173. **Percy J**, Zaveri HP, Gerrard J, *Hirsch LJ*, Blumenfeld H, Spencer D, Sivaraju A. Long-term seizure freedom following intracranial monitoring without resection. Presented at the American Epilepsy Society's 72nd Annual Meeting, New Orleans, LA, Dec 2019, www.aesnet.org/annual_meeting, abstr. 2.313.
174. Galluzzo DR, Dhakar M, *Hirsch LJ*, Sheth KN, Gilmore EJ. Periodic and rhythmic EEG patterns: is there equipoise for treatment in hospitalized patients? Presented at the American Epilepsy Society's 72nd Annual Meeting, New Orleans, LA, Dec 2019, www.aesnet.org/annual_meeting, abstr. 2.027.
175. Quraishi IH, *Hirsch LJ*. Patient-detectable responsive neurostimulation as a seizure-warning system. Presented at the American Epilepsy Society's 72nd Annual Meeting, New Orleans, LA, Dec 2019, www.aesnet.org/annual_meeting, abstr. 2.064.
176. *Hirsch LJ*, Mirro E, ..., Rao VR. Outcomes after mesial temporal resection following long-term ambulatory recording by the RNS System. Presented at the American Epilepsy Society's 72nd Annual Meeting, New Orleans, LA, Dec 2019, www.aesnet.org/annual_meeting, abstr. 1.336.
177. Tolchin B, ...*Hirsch LJ*..., Dworetzky B. Lessons from a randomized trial of motivational interviewing for psychogenic nonepileptic seizures. Presented at the American Epilepsy Society's 72nd Annual Meeting, New Orleans, LA, Dec 2019, www.aesnet.org/annual_meeting, abstr. 1.277.

178. Jafapour S, O'Bryan J, ... *Hirsch LJ*, Detyniecki K. Seizure clusters in pediatric epilepsy: the Harvard-Yale pediatric epilepsy cluster study. Presented at the American Epilepsy Society's 72nd Annual Meeting, New Orleans, LA, Dec 2019, www.aesnet.org/annual_meeting, abstr. 1.194.
179. Kukla A, Shafer PO, Santilli N, French JA, *Hirsch LJ*, Buelow JM. Understanding seizures and rescue medicines: survey of epilepsy.com users. Presented at the American Epilepsy Society's 73rd Annual Meeting, Baltimore MD, Dec 2019, www.aesnet.org/annual_meeting, abstr. 3.212.
180. Kharawala S, Szaflarski J, Kaur G, Choi EJ, Wilson JC, *Hirsch LJ**. Rescue medications in seizure clusters: a systematic review of treatment patterns and treatment impact. Presented at the American Epilepsy Society's 73rd Annual Meeting, Baltimore MD, Dec 2019, www.aesnet.org/annual_meeting, abstr. 3.331.
181. **Henriquez-Rojas P**, Sivaraju A, Quraishi I, Vanderlind M, Rofes A, Spencer D, *Hirsch LJ*, Benjamin C. Impairment of spoken and written letter, but not number, production during superior temporal gyrus stimulation. Presented at the American Epilepsy Society's 73rd Annual Meeting, Baltimore MD, Dec 2019, www.aesnet.org/annual_meeting, abstr. 3.17.
182. Wyatt D, Damisah E, Gerrard J, *Hirsch LJ*, Quraishi I, Duckrow R, Herlopian A, Spencer D, Farooque P. Outcome and predictors of outcome with the use of responsive neurostimulation at a single center. Presented at the American Epilepsy Society's 73rd Annual Meeting, Baltimore MD, Dec 2019, www.aesnet.org/annual_meeting, abstr. 2.305.
183. Subramaniam T, Struck AF...*Hirsch LJ*... Westover MB. Validation of the 2HELPS2B score for inpatient seizure risk prediction. Presented at the American Epilepsy Society's 73rd Annual Meeting, Baltimore MD, Dec 2019, www.aesnet.org/annual_meeting, abstr. 2.018.
184. Westover MB, Gururanagan K...*Hirsch LJ*, Parvizi J. Diagnostic and predictive value of EEG with ten electrodes. Presented at the American Epilepsy Society's 73rd Annual Meeting, Baltimore MD, Dec 2019, www.aesnet.org/annual_meeting, abstr.2.021.
185. **Tolba H, Cutillo G**, *Hirsch LJ**. Anti-epileptic drugs and efficacy against focal to bilateral tonic-clonic seizures: a systematic review. Presented at the American Epilepsy Society's 73rd Annual Meeting, Baltimore MD, Dec 2019, www.aesnet.org/annual_meeting, abstr. 2.266.
186. Sivaraju A, Huberdeau D, Duckrow RB, Zaveri HP, *Hirsch LJ*, Blumenfeld H. Predicting the likelihood of resective surgery following an intracranial study for seizure onset localization. Presented at the American Epilepsy Society's 73rd Annual Meeting, Baltimore MD, Dec 2019, www.aesnet.org/annual_meeting, abstr. 2.282.
187. Tolchin B, Baslet G, Martino S, Blumenfeld H, *Hirsch LJ*, Altalib HH, Dworetzky BA. The impact of patient beliefs on the treatment of psychogenic nonepileptic attacks. Presented at the American Epilepsy Society's 73rd Annual Meeting, Baltimore MD, Dec 2019, www.aesnet.org/annual_meeting, abstr. 2.18.
188. **Osman G**, Gilmore E, *Hirsch LJ*, Gaspard N. Clinical and electrographic characteristics of frontal rhythmic delta activity in critically ill patients. Presented at the American Epilepsy Society's 73rd Annual Meeting, Baltimore MD, Dec 2019, www.aesnet.org/annual_meeting, abstr. 1.138.
189. Tatum WO, *Hirsch LJ*, ..., Cascino GD. Video quality using outpatient smartphone videos in epilepsy: results from the OsmartViE Study. Presented at the American Epilepsy Society's 73rd Annual Meeting, Baltimore MD, Dec 2019, www.aesnet.org/annual_meeting, abstr. 1.205.