Collin A. Hovinga, PharmD., M.S., FCCP

EDUCATION

Masters of Science in Epidemiology Magna cum laude University of Tennessee Health Science Center, Memphis, TN.	2010
Doctor of Pharmacy , <i>Summa cum laude</i> Creighton University, School of Pharmacy and Allied Health Professions, Omaha, NE.	1997
Bachelor of Science in Biology , <i>Magna cum laude</i> Creighton University, College of Arts and Sciences, Omaha, NE.	1991
POSTDOCTORAL TRAINING	
Health Outcomes and Economics Fellowship MD Anderson Cancer Center and University of Texas Southwestern, Houston, TX.	2012-2013
Pediatric Clinical Pharmacology Fellowship Office of Clinical Pharmacology U.S. Food and Drug Administration (FDA), Silver Springs, MD.	2009
Pediatric Pharmacotherapy Fellowship NIH Pediatric Pharmacology Research Unit University of Tennessee, Memphis, TN.	1998- 2000
Pediatric Pharmacotherapy Residency University of Tennessee, Memphis, TN.	1997- 1998
PROFESSIONAL EXPERIENCE	
Vice President Rare and Orphan Diseases Critical Path Institute (C-Path)	2022-present
Special Government Employee (SGE)-Advisor Drug Safety and Risk Management, U.S. Food and Drug Administration	2020-present
Senior Vice President, Clinical and Scientific Development The Institute for Advanced Clinical Trials for Children (I-ACT)	2018-2022
Director of Research Support Services Ascension National Hospitals, Ascension Texas and Seton Healthcare Family Austin	2015-2018

Director of Research and Research Integrity Dell Children's Medical Center, Pediatric Surgical Subspecialists	2011-2015
Pediatric Clinical Pharmacologist Department of Neurology and Pediatrics, Dell Children's Medical Center	2011-2015
Special Government Employee (SGE)-Advisor CNS, PNS Division, U.S. Food and Drug Administration	2010-2015
Director of the Neuropharmacology Translational Research Laboratory and Pediatric Clinical Pharmacologist Neurology, PICU/NICU Le Bonheur Children's Medical Center, Division of Clinical Pharmacology	2006-2011
Associate Director of Research and Neuropharmacologist Miami Children's Hospital Research Institute Clinical Neuropharmacologist-Neuroscience	2003-2006
Neuropharmacology Specialist, Research Manager Cleveland Clinic Foundation	2000-2003
Clinical Pharmacologist Le Bonheur Children's Medical Center	1997-1999

ACADEMIC APPOINTMENTS

Clinical Associate Professor of Pharmacy University of Texas at Austin, College of Pharmacy	2011-present
Associate Professor of Pharmacy and Pediatrics University of Tennessee Health Science Center, College of Pharmacy	2011
Assistant Professor of Pharmacy and Pediatrics University of Tennessee Health Science Center, College of Pharmacy	2006-2011
Assistant Professor of Neurosurgery University of Miami School of Medicine, Department of Neurosurgery	2003-2006
Adjunctive Mentor Faculty Creighton University, School of Pharmacy and Allied Health Professions	2001-2005
Assistant Professor Creighton University, College of Arts and Science, Department of Biology	1990-1991

WORKING GROUPS, MEMBERSHIPS AND AFFILIATIONS

Collaborative Network for European Clinical Trials for Children (Conect 4 Children)	2018-present
U.S. Representative, International Global Pediatric Interoperability Committee	2018-present
Expert Advisory Committee (WP4)	2018-present
Education and Training Committee (WP6)	2018-present
Vice Chair, External Advisory Committee	2018-present
Enpr-EMA-FDA Working Group on International Collaboration	
U.S. Representative	2018-2022
The International Children's Advisory Network (iCAN) Member, Medical Advisory Board Chair, Educational Committee	2017-present
Multiregional Clinical Trials (MRCT) Pediatric Global Research Initiative Patient Engagement	2020-2021
Pfizer, Inc., Groton, CT	2016-2017
Founding Member, Pfizer External Expert Panel (PEEP)	
American College of Clinical Pharmacy	1997-present
Member, 2018 Pediatric Pharmacy Standard Setting Panel	2017-2019
President Elect, Advisory Committee, National Practice Based Research Network	2015
Member, Practice Based Research Committee	2013-2017
Member, Resident/Fellow Core Curriculum Committee	2013-2014
Advisory Committee, National Practice Based Research Network	2012-2018
Secretary Treasurer, Central Nervous System Practice and Research Network	2011-2012
Member, Annual Program Committee 2012	2010-2012
Member, Virtual Committee Advisory Committee	2008-2009
Member, Educational Committee B	2007-2008
Acting Chair, Central Nervous System Practice and Research Network Chair Elect, Central Nervous System Practice and Research Network	2006-2007 2005-2006
Member, Research Affairs Committee	2003-2000
Member, Industrial Relations Committee	1999-2000
Pediatric Pharmacy Advocacy Group	1997-present
Board Review Faculty-Neurology/Psychiatry	2015-2017
PRN Journal Advisor and Reviewer	1997-present
American Epilepsy Society	2000-2020
Member, Allied Health Professionals	2008-2011
Member, Clinical Therapeutics Committee	2004-2008
Member, Practice Committee	2001-2006

Texas State Autism Spectrum Disorders, Austin, TX Medical Advisory Committee, Planning Committee	2014-2017
U.S. Food and Drug Administration, Silver Springs, MD Special Government Employee, Peripheral and Central Nervous System	2012-2015
Seton Healthcare Family, Austin, TX Member, Institutional Review Board	2012-2015
Children's Optimal Health, Austin, TX Technical Advisory Committee	2012-2017
American Academy of Neurology Member, Pregnancy and Lactation Position Paper Chair, Folate use, lactation/placental transfer, Vitamin K use Co-chair, Pharmacokinetics	2005-2007
American Society of Health-System Pharmacists	1996-2000
Phi Lambda Sigma National Pharmacy Leadership Society	1996-present
Rho Chi National Honor Society Vice President	1995-present 1995-1996

HONORS AND AWARDS

Fellow, American College of Clinical Pharmacy	2011
Volunteer Leader Recognition, American Epilepsy Society	2005-2009
Research Sabbatical, American College of Clinical Pharmacy	2001
Dean's Honor Award, Creighton University	1994-1995
Rho Chi Academic Achievement Award	1994
State of Iowa Scholar	1991
Outstanding Chemistry/Biology Student Award	1991
Dean's List Creighton University	1987-1997
Reinhart Condon Academic Scholarship	1987

CONSULTANCIES AND ADVISORY ACTIVITIES

Patient Advocacy	
Firefly Fund for Niemann-Pick disease type C1 (NPC1) Director, Scientific Advisory Board Healthcare Advisor, Board of Directors	2017-present
Tuberous Sclerosis Alliance Medical and Scientific Advisor	2014-present
HydroAngels Board of Directors / Research Director	2015-2016

Tennessee Epilepsy Foundation Pharmacy and Advocacy	2008-2011
AES/AAN Guidelines for Woman with Epilepsy Lead Pharmacokinetics, Drugs in Lactation, Vitamin Supplementation	2008-2009
Autism Solution Center Board of Directors	2007-2008
Spinal Muscular Atrophy (SMA) Foundation	2005-2007
HiQ Foundation/MRSI, Psychogenics, Inc. Drug Evaluation Consultant	2003-2006
Federal	
NIH-CTSA Standards for Informed Consent	2017
NIH Standard Data Elements for Research	2011-2012
NIH/NINDS Huntington's Study Group –Drug Trials in Disease Modification Translational Research Consultant (CINAPS)	2005-2007
Pharmaceutical	
Questcor Pharmaceuticals Educational Consultant	2008-2010
UCB, Inc. Pharma-Speaker's Bureau	2001-2007
Johnson & Johnson PRD and OrthoMcNeil Consultant Trial Design for Epilepsy	2003-2006
GlaxoSmithKline, Inc. Consultant, Speaker's Bureau	2000-2004
Eisai Pharmaceuticals Consultant	2000-2003
Pfizer Consultant-Pediatric Hypertension Trial Design	1999-2000

CLINICAL PRACTICE

More than 20 years experiences as a clinical pharmacologist, specializing in pediatrics, neurology, rare diseases, and acute care.

Certification and Licensure

Pharmacist, State of Tennessee, No. 0000010144, Exp. 7/31/2023	Active
Pharmacist, State of Texas, No. 51309, Exp. 11/30/2023	Active
Immunization Certification, American Pharmaceutical Association	Active
Citi Training Biomedical Research, IRB Member/Chair, GCP	Active

Clinical Innovations and Quality Improvement Projects

Project Mentor, Seton Family Hospitals Quality and Health Outcomes	2013-2018
Program, Austin, TX	
"Improving Infectious Disease Isolation Practices in General Medicine	e Floor."
"Improving Outcomes and Clinical Workflow in Spasticity Clinic."	
"Maximization of Concussion Workflow and Patient Related Value."	
"Factors that Influence Shunt Longevity in Hydrocephalic Patients."	
"Decrease Waste in Operative Material Use."	
"Epilepsy Surgical Evaluations-Implementation of a Practice Guidelin	e
Based Referral System."	

GRANTS

FDA Grants

FDA U01F00072201 Advancing Standards and Methodologies to Generate Real World Evidence From Real World Data Through a Neonatal Pilot Project. <u>Co-Investigator.</u>	2020-present
FDA U18FD006297 I-ACT for Children The Development of a Global Pediatric Clinical Trials Network. <u>Co-Principal Investigator.</u>	2017-present
NIH Grants – Completed	
NINDS NS065818-01A1 Thrombolysis in Pediatric Stroke (TIPS) grant. <u>Co-Investigator</u> . Study, Director of the Pharmacokinetic Core.	2011-2014
NINDS/HiQ Foundation. Systemic Evaluation of Treatments for Huntington's Disease, Consultant, Co-Chair. 2004, Chair- 2005-2006.	2004-2006
NINDS NS5045911/NS5045803 Childhood Absence Epilepsy: Rx PK-PD-Pharmacogenetics. <u>Co-Investigator</u> .	2004-2006
NIH/NINDS Committee to Investigate Neuroprotective Studies in Parkinson's (CINPAPS), <u>Consultant</u> (Subcontract), Member Neuropharmacology Advisory Board.	2002-2004

Institutional Research Grants

Inaugural UTHSC Clinical Translational Science Institute K12 Scholar Grant (CTSI) Identification of Genes Modulating Susceptibility with Neonatal Hypoxia-Induced Seizures (HIS).	2008-2011
Le Bonheur Small Grant. Differences in Inbred Strains and Seizure Susceptibility Following Hypoxia in Neonatal Mice. <u>Principal</u> <u>Investigator</u> .	2008
University of Tennessee Health Science Center Seed Grant. Development of A Mouse Model of Hypoxia Induced Seizures. <u>Principal Investigator</u> .	2007-2008
Miami Children's Hospital Research Institute Seed Grants. Efficacy of Lamotrigine in a Neonatal Model of Hypoxic-Ischemic Injury. <u>Principal Investigator</u> .	Aug. 2002-2004
American College of Clinical Pharmacy, CNS PRN. Neuroprotection in Neonatal Ischemia and Hypoxia. Research Mini-sabbatical on Model of Neonatal Ischemia and Hypoxia, and Immunohistochemistry Techniques. <u>Principal Investigator</u> . Mentor: Susan Fagan, PharmD, BCPS, FCCP., Professor of Neurology, Medical College of Georgia.	2002
Investigator Initiated	
Seizure Control and Quality of Life in Children after Vagal Nerve Stimulator Placement, Corpus Callosotomy or Ketogenic Diet Initiation. Sander Foundation <u>Co-Investigator</u> .	2014-2018
Special Needs Assessment and Plan Study (SNAP). Co-Investigator.	2014-2018
A Randomized Controlled Trial of Cognitive Behavioral Therapy and Hypnotherapy to Manage Pain in Pediatric Patients with Gastrointestinal Disease. <u>Co-Investigator</u> .	2014-2018
Evaluation of an Innovative Model of Care for Children with Complex Medical Needs. Seton Innovations Grant. <u>Co-Investigator</u> .	2014-2018
Efficacy of Sonicare Tooth Brush on Oral Hygiene for Cleft Palate and Lip in Patients 4-10 Years Old. Proctor and Gamble. <u>Co-Principal</u> <u>Investigator</u> .	2013-2017
Texas Survey of Best Practices in Epilepsy. <u>Co-Investigator</u> . IV Lacosamide: The Safety of Intravenous Lacosamide. Shainberg Fund. <u>Co-Investigator</u> .	2012-2013 2009-2012

Genetic Susceptibility in Neonatal Hypoxia Induced Seizures-QTL Analysis. Le Bonheur Children's Medical Center Grant. <u>Principal</u> <u>Investigator</u> .	2008-2009
Development of a Neonatal Seizure Model of Hypoxia-Induced Seizures. University of Tennessee College of Pharmacy Seed Grant. <u>Principal Investigator</u> .	2007-2008
Rapid Infusion of Levetiracetam in Pediatric Patients. Shainberg Fund. <u>Co-Investigator</u> .	2007-2008
Two-year Follow-up Study Evaluating the Efficacy of Levetiracetam in Adult and Pediatric Patients with Epilepsy. <u>Principal Investigator</u> . Funded UCB Pharma, Inc.	2002-2003
Pharmacokinetics of Lamotrigine in the Mother and the Neonate. Principal Investigator. Funding by GlaxoSmithKline.	2001-2002
Post-Marketing Evaluation of Levetiracetam in Adult and Pediatric Outpatients. <u>Principal Investigator</u> . Funding UCB Pharma, Inc.	Feb. 2001-May 2001
Use of Lamotrigine in the Prevention of Epilepsy. <u>Principal Investigator</u> . Funding GlaxoSmithKline.	Feb. 2001
Economic Evaluation of Parental Phenytoin Product Use in a Tertiary Hospital. <u>Principal Investigator</u> . Funding Pfizer Pharmaceuticals, Inc.	Jan. 2001-2002
Pharmacokinetics of IV Valproate in Children with Epilepsy: A Preliminary Study, <u>Principal Investigator</u> , Funding Le Bonheur- University of Tennessee, Small Grant.	Jul. 1998-Jul. 2000
Appropriateness of Anticonvulsant Level Monitoring in A Pediatric Hospital, <u>Principal Investigator</u> .	Oct. 1998
Student vs. Preceptor Assessments During Fourth-Year Clinical Experiences, <u>Principal Investigator</u> .	Jan. 1995
Private Industry Sponsor Studies (Phase 1-4) Clinical Drug Trials in Adults and Children (most therapeutic areas, emphasis in pediatrics, rare disease, and neurology). Oversaw 50 to >200 studies annually. <u>Collaborating Investigator</u> .	2000-2018
A 7-Week Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel Group Study to Determine the Effects of Adjunctive Levetiracetam on the Sleep Architecture of Adult Subjects (18-45 years of Age) with Partial Onset Epilepsy Receiving a First Generation Anti- epileptic Drug. <u>Co-Investigator</u> .	Jun. 2002-2003
GlaxoSmithKline Inc., A Multi-center, Double-blind, Randomized, Placebo-Controlled, Parallel-Group Evaluation of Lamotrigine Adjunctive Therapy in Subjects with Primary Generalized Tonic-Clonic Seizures. <u>Co-Investigator</u> .	Oct. 2001-2003

UCB Pharma, Inc., A Double-blind, Multi-center, Randomized, Placebo-Controlled, Study to Evaluate the Efficacy and Safety of Adjunctive Treatment with 3000 mg/day (pediatric target dose of 60 mg/kg/day) oral levetiracetam (LEV) (166, 20 and 500 mg tablets), in Adults and Pediatric Subjects (4-65 years) Suffering from Idiopathic Primary Generalized Tonic-Clonic (PGTC) Seizures. <u>Co-Investigator</u> .	Sept. 2001-2003
OrthoMcNeil Pharmaceuticals, Inc. A Comparative Study of Topamax (Topiramate) Verses Depakote (Valproate) in Subjects with Juvenile Myoclonic Epilepsy. CAPSS-107. <u>Co-Investigator</u> .	Feb. 2001-2003
GlaxoWellcome, Inc Open-Label, Uncontrolled Long-Term Study to Assess the Safety of Lamictal in Pediatric Subjects. LAM 20007. <u>Co-Investigator</u> .	Jan. 2001-2003
GlaxoWellcome, Inc.: A Double-Blind, Placebo-Controlled, Add-On Clinical Trial of the Safety, Pharmacokinetics and Efficacy of Lamictal in Pediatric Age Subjects (1-24 Months) LAM 20006. <u>Co-Investigator</u> .	Jan. 2001-2002
GlaxoWellcome, Inc. Open-Label, Multicenter, Randomized Trial to Evaluate the Development of Components of Polycystic Ovary Syndrome (PCOS) in Female Subjects with Newly Diagnosed Epilepsy Initiating Anti-Epileptic Drug Treatment on either Lamotrigine or Valproate Monotherapy. <u>Co-Investigator</u> .	Dec. 2000-2003
Elan Pharmaceuticals, Inc. A Multicenter, Oben-Label, Safety Study to Evaluate The Use of 25 mg and 50 mg Zonegran (Zonisamide) in the Initiation of Therapy in Patients With Epilepsy. <u>Co-Investigator</u> .	Dec. 2000-2001
Pfizer Pharmaceuticals: Pediatric Use of Amlodipine in the Treatment of Hypertension-2 Trial (PATH-2). A Population Pharmacokinetic Trial. <u>Principal Investigator</u> .	Dec. 1999-2000
Pfizer Pharmaceuticals: Pediatric Use of Amlodipine in the Treatment of Hypertension-I Trial (PATH-I). A randomized, double-blind, placebo- controlled, parallel group dose-ranging study to evaluate the efficacy and safety of amlodipine in the treatment of hypertension in children. <u>Co-Investigator</u> .	Dec. 1999-2000
Parke Davis: Gabapentin Pediatric Add-On Trial: A Randomize, Double-Blind Placebo Controlled, Parallel-Group, Multicenter Study in Patients With Partial Seizures, <u>Co-Investigator</u> .	Apr. 1999-Feb. 2000
Parke Davis: Open-Label, Safety Study of Gabapentin (CI-945) as Adjunct Therapy in Children Ages 1 Month Through 4 Years With Partial Seizures Uncontrolled by Current Anticonvulsant Drugs, <u>Co-Investigator</u> .	Mar. 1999-Jul. 2000

PPRU Network and UCSD: Evaluation of the Pharmacokinetics and Tolerance of Escalating Doses of Oral Pentoxifylline in Children with Acute Kawasaki Disease (IND# 48434), <u>Co-Investigator</u> .	Mar. 1999-Oct. 2000
Parke Davis: An Open Label, Safety, Tolerance, and Pharmacokinetic Study of Intravenous and Intramuscular Fosphenytoin (CerebryxÒ) in Children < 5 Years of Age, <u>Co-Investigator</u> .	Apr. 1998-May 2000

PUBLICATIONS

Peer-reviewed publications

Greenberg R, McCune S, Attar S, **Hovinga C**, Stewart B, Lacaze-Masmonteil T. Pediatric clinical trial networks: Role in accelerating development of therapeutics in children. *Ther Innov Regul Sci.* (In press).

Mulberg A, Conklin LS, Croft N, Parkish A, Bousvaros A, DeZoeten E, Dubinsky M, Carpi F, Escher H, Vesely R, Ollivier C, Crandall W, **Hovinga C**. Pediatric Extrapolation of Adult Efficacy Is Critical for Efficient and Successful Drug Development. *Gastroenterology* 2022 Online https://doi.org/10.1053/j.gastro.2022.03.018

Noel GK, Nelson RM, Bucci-Rechtweg C, Portman R, Miller T, Green DJ, Snyder D, Moreno C, **Hovinga C**, Connor E. Inclusion of adolescents in adult clinical trials: Report of the Institute for Advanced Clinical Trials for Children's Pediatric Innovation Research Forum. *Ther Innov Regul Sci*. 2021; 2:1-6.

Cadmus SD, Sebastian KR, Warren D, **Hovinga CA**, Croce EA, Reveles LA, Levy ML, Diaz LZ. Efficacy and patient opinion of wet-wrap dressings using 0.1% triamcinolone acetonide ointment vs cream in the treatment of pediatric atopic dermatitis: A randomized split-body control study. *Pediatric Dermatology*. 2019; 36:437-41.

Gupte-Singh K, Wilson JP, Barner JC, Richards KM, Rascati KL, **Hovinga C**. Patterns of antiepileptic drug use in patients with potential refractory epilepsy in Texas Medicaid. *Epilepsy Behavior*. 2018; 87:108-16.

Zhu TH1, Werchan IA, Escamilla KV, Sebastian K, **Hovinga CA**, Reichenberg JS. Association Between Delusions of Infestation and Prescribed Narcotic and Stimulant Use. *J Psychiatry Practice*. 2018; 24:428-431.

Pickel S, Shen MW, **Hovinga C**. Look Who's Talking: Comparing Perceptions Versus Direct Observations in Family-Centered Rounds. 2016; 6:387-93.

Wilkinson M, King B, Iyer S, Higginbotham E, Wallace A, **Hovinga C**, Allen C. Comparison of a rapid albuterol pathway with a standard pathway for the treatment of children with a moderate to severe asthma exacerbation in the emergency department. *Journal of Asthma*. 2017; 26:1-8.

Rivkin MJ, deVeber G, Ischord RN, Kirton A, Chan AK, **Hovinga CA**, Gill JC, Szabo A, Hill MD, Scholz K, Amlie-Lefond C. Thrombolysis in Pediatric Stroke study. *Stroke*. 2015; 46:880-5.

Bernard TJ, Rivkin MJ, Scholz K, deVeber G, Kirton A, Gill JC, Chan AK, **Hovinga CA**, Ichord RN, Scholz K, Grotta JC, Jordan LC, Benedict S, Friedman NR, Dowling MM, Elbers J, Torres M, Sultan S, Cummings DD, Grabowski EF, McMillan HJ, Beslow LA, Amlie-Lefond C, Emergence of the primary pediatric stroke center: impact of the thrombolysis in pediatric stroke trial. *Stroke*. 2014; 45:2018-23.

Krushkal J, Murphy LE, Palmer FB, Graff JC, Sutter TR, Mozhui K, **Hovinga C**, Thomas F, Park V, Tylavsky FA, Adkins RM. Epigenetic analysis of neurocognitive development at 1 year of age in a community practice based pregnancy cohort. *Behavior Genetics*. 2014; 44:113-25.

Ilo E and **Hovinga CA**. Extended-release antiepileptic drugs: A comparison of pharmacokinetic parameters relative to original immediate-release formulations. *Epilepsia*. 2013; 54: 28-35.

Harden CL, Pennell PB, Koppel BS, **Hovinga CA**, Gidal B, Meador KJ, Hopp J, Ting TY, Hauser WA, Thurman D, Kaplan PW, Robinson JN, French JA, Wiebe S, Wilner AN, Vazquez B, Holmes L, Krumholz A, Finnell R, Shafer PO, Le Guen C. Practice Parameter update: Management issues for women with epilepsy--focus on pregnancy (an evidence-based review): Vitamin K, folic acid, blood levels, and breastfeeding. Report of the Quality Standards Subcommittee and Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology and American Epilepsy Society. *Neurology*. 2009; 73:142-9.

Harden CL, Meador KJ, Pennell PB, Hauser WA, Gronseth GS, French JA, Wiebe S, Thurman D, Koppel BS, Kaplan PW, Robinson JN, Hopp J, Ting TY, Gidal B, **Hovinga CA**, Wilner AN, Vazquez B, Holmes L, Krumholz A, Finnell R, Hirtz D, Le Guen C. Practice Parameter update: Management issues for women with epilepsy--focus on pregnancy (an evidence-based review): Teratogenesis and perinatal outcomes. Report of the Quality Standards Subcommittee and Therapeutics and Technology Subcommittee of the American Academy of Neurology and American Epilepsy Society. *Neurology*. 2009; 73:133-41.

Harden CL, Hopp J, Ting TY, Pennell PB, French JA, Hauser WA, Wiebe S, Gronseth GS, Thurman D, Meador KJ, Koppel BS, Kaplan PW, Robinson JN, Gidal B, **Hovinga CA**, Wilner AN, Vazquez B, Holmes L, Krumholz A, Finnell R, Le Guen C. Practice Parameter update: Management issues for women with epilepsy--focus on pregnancy (an evidence-based review): Obstetrical complications and change in seizure frequency. Report of the Quality Standards Subcommittee and Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology and American Epilepsy Society. *Neurology*. 2009; 73:126-32.

Harden CL, Pennell PB, Koppel BS, **Hovinga CA**, Gidal B, Meador KJ, Hopp J, Ting TY, Hauser WA, Thurman D, Kaplan PW, Robinson JN, French JA, Wiebe S, Wilner AN, Vazquez B, Holmes L, Krumholz A, Finnell R, Shafer PO, Le Guen CL; American Academy of Neurology; American Epilepsy Society. Management issues for women with epilepsy--focus on pregnancy (an evidence-based review): III. Vitamin K, folic acid, blood levels, and breast-feeding: Report of the Quality Standards Subcommittee and Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology and the American Epilepsy Society. *Epilepsia*. 2009; 50:1247-55.

Harden CL, Meador KJ, Pennell PB, Hauser WA, Gronseth GS, French JA, Wiebe S, Thurman D, Koppel BS, Kaplan PW, Robinson JN, Hopp J, Ting TY, Gidal B, **Hovinga CA**, Wilner AN, Vazquez B, Holmes L, Krumholz A, Finnell R, Hirtz D, Le Guen C; American Academy of Neurology; American Epilepsy Society. Management issues for women with epilepsy-Focus on pregnancy (an evidence-based review): II. Teratogenesis and perinatal outcomes: Report of the Quality Standards Subcommittee and Therapeutics and Technology Subcommittee of the American Academy of Neurology and the American Epilepsy Society. *Epilepsia*. 2009; 50(5):1237-46.

Harden CL, Hopp J, Ting TY, Pennell PB, French JA, Allen Hauser W, Wiebe S, Gronseth GS, Thurman D, Meador KJ, Koppel BS, Kaplan PW, Robinson JN, Gidal B, **Hovinga CA**, Wilner AN, Vazquez B, Holmes L, Krumholz A, Finnell R, Le Guen C; American Academy of Neurology; American Epilepsy Society. Management issues for women with epilepsy-Focus on pregnancy (an evidence-based review): I. Obstetrical complications and change in seizure frequency: Report of the Quality Standards Subcommittee and Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology and the American Epilepsy Society. Epilepsia. 2009; 50:1229-36.

Asato MR, Manjunath R, Seth RD, Phelps SJ, Wheless JW, **Hovinga CA**, Pina-Garza JE, Haskins LS, Zingaro WM. Adolescent and caregiver experiences in epilepsy. *Journal of Child Neurology*. 2009; 24:562-71.

Wheless JW, Clarke D, **Hovinga CA**, Ellis M, Durmeier M, McGregor A, Perkins F. Rapid Infusion of a Loading Dose of Intravenous Levetiracetam With Minimal Dilution: A Safety Study *Journal of Child Neurology*. 2009; 24:946-51.

Amlie-Lefond C, deVeber G, Chan A, **Hovinga CA**, Benedict S, Bernard T, Carpenter S, Dowling M, Fullerton H, Kirkton A, Lo W, Carpenter J, Zamel K, Ichord R. International Pediatric Stroke Study. Use of tPA in Childhood Arterial Ischemic Stroke. *Lancet Neurology*. 2009; 8:530-6.

Amlie-Lefond C, Chan AK, Kirkton A, deVeber G, **Hovinga CA**, Ichord R, Stephens D, Zaidat OO. Thrombolysis in acute childhood stroke: design and challenges of the thrombolysis in pediatric stroke clinical trial. *Neuroepidemiology*. 2009; 32: 279-86.

Hovinga CA Pennell PB. Antiepileptic drugs therapy in pregnancy II: fetal and neonatal exposure. *International Review of Neurobiology*. 2008; 83: 241-58.

Pennell PB, **Hovinga CA**. Antiepileptic drugs therapy in pregnancy I: gestation-induced effects on AED pharmacokinetics. *International Review of Neurobiology*. 2008; 83: 227-40.

Whelan HT, Cook JD, Amlie-Lefond C, **Hovinga CA**, Chan A, Ichord RN, deVeber G. Practical model-based dose-finding study in early phase clinical trials: Optimizing tPA dose for treatment of ischemic stroke in children. *Stroke*. 2008; 39:2627-36.

Wheless JW, Asato MS, Sheth RD, **Hovinga CA**, Phelps SJ, Pina-Garza JE, Manjunath R, Haskins LS. Seizure Emergency Plans: Results from a Cross Sectional-Epilepsy Survey. Epilepsy Behav. 2008; 13: 489-93.

Hovinga CA, Asato MR, Manjunath R, Wheless JW, Phelps SJ, Sheth RD, Pina Garza JE, Zingaro WM, Haskins LS. Association of Non-Adherence to Anti-Epileptic Drugs and Seizures, Quality of Life, and Productivity: Survey of Patients with Epilepsy and Physicians. *Epilepsy & Behavior*. 2008; 13: 316-22.

Hovinga CA, Ravina BR, DeProspero N, Bain L, Blumenstein R, Tobin A. Sytematic Evaluation of Therapeutics for Huntington's Disease (SET-HD): A Systematic Assessment for Neuroprotective Agents. http://www.huntingtonproject.org/Default.aspx?tabid=50

Girish H, Kotagal P, **Hovinga CA**, Wyllie E, Morris H. Carbamazepine Elevation in A Group of Patients and the Role of Fentanyl. Seizure. 2005; 14:312-7.

Hovinga CA. Valrocemide (Teva/Acorda). Current Opinion in Investigational Drugs. 2004; 5:101-6.

Lardizabal DV, Luders HO, **Hovinga CA**, Bourgeois BF. Severe intoxication after phenytoin infusion: a preventable pharmacogenetic adverse reaction. Neurology. 2004; 62:161.

Srikijvilaikul T, Najm IM, **Hovinga CA**, Gonzalez-Martinez J. Bingaman WE. Seizure Outcome Following Temporal Lobectomy In Temporal Lobe Cortical Dysplasia. *Epilepsia*. 2003; 44:1420-4.

Ravina BM, Fagan SC, Hart RG, **Hovinga CA**, Murphy DD, Marler JR. Neuroprotective Agents for Clinical Trials in Parkinson's Disease: A Systematic Assessment. Neurology. 2003; 60:1234-40.

Lazdizabal DV, Morris HH, **Hovinga CA**, Carreno M. The Tolerability and Pharmacokinetics of Oral Loading with Lamotrigine in Epilepsy Monitoring Units. *Epilepsia*. 2003; 44:536-9.

Hovinga CA. SPM-927 (Schwarz Pharma). IDrugs. 2003; 6:479-85.

Hovinga CA. Erlosamide. IDrugs (Iddb)-Ashley Publishing. http://iddb.com, Accessible March 3, 2003.

Hovinga CA, Rose DF, Phelps SJ. Appropriateness of Anticonvulsant Level Monitoring in A Pediatric Hospital. *Journal of Pediatric Pharmacology and Therapeutics* 2003; 8:200-9.

Hovinga CA. Invited Review-Promising Investigational Anticonvulsant Drugs. *Expert Opinion on Investigational Drugs*. 2002; 10:1387-406.

Hovinga CA. Levetiracetam: A Novel Antiepileptic Medication. Pharmacotherapy. 2001; 21:1375-88.

Chaffin CC, **Hovinga CA**, Phelps SJ. Clonidine in the Treatment Attention- Deficit Hyperactivity Disorder. *Journal of Pediatric Pharmacy Practice* 1999; 4: 308-315.

Hovinga CA, Chicella MF, Rose DF, Eades SK, Dalton JT, Phelps SJ. Use of Intravenous Valproate in Three Pediatric Patients with Nonconvulsive or Convulsive Status Epilepticus. *Annals of Pharmacotherapy* 1999; 33: 579-584.

Phelps SJ, **Hovinga CA**, Rose DF, Vaughn C, Olsen-Creasy K. The Ketogenic Diet in Pediatric Epilepsy. *Nutrition in Clinical Practice* 1998; 13(6): 267-282.

Books & Chapters

Hovinga CA. Principals of Pharmacokinetics and Pharmacogenomics of Anticonvulsants. <u>Advances in</u> the Treatment of Epilepsy. 1st Ed. Baumgartner JE, Wheless JW, Ed. New York, NY: Elsevier. 2008.

Phelps SJ, **Hovinga CA**, Wheless JW. Status Epilepticus. In: Dipiro J, Talbert R, Yee G, et al, eds. <u>Pharmacotherapy: A Pathophysiological Approach</u>. 7th ed. New York, NY: McGraw Hill. 2008. Phelps SJ, **Hovinga CA**, Boucher BA. Status Epilepticus. In: Dipiro J, Talbert R, Yee G, et al, eds. <u>Pharmacotherapy: A Pathophysiological Approach</u>. 6th ed. New York, NY: McGraw Hill. 2006.

Hovinga CA, Lachhwani D. Treatment of Epilepsy. In: Moodie D, Sabella D, eds. <u>The Cleveland</u> <u>Clinic Comprehensive Pediatric Board Review Book</u>, 2nd Ed.. New York, NY. Lippincott Williams and Williams, 2005.

Hovinga CA, Wyllie E. Treatment of Epilepsy. In: Moodie D, Sabella D, eds. <u>The Cleveland Clinic</u> <u>Comprehensive Pediatric Board Review Book</u>. New York, NY. Lippincott Williams and Williams, 2002.

Phelps SJ, **Hovinga CA**, Boucher BA. Status Epilepticus. In: Dipiro J, Talbert R, Yee G, et al, eds. Pharmacotherapy: A Pathophysiological Approach. 5th ed. New York, NY: McGraw Hill, 2002.

Hovinga CA. Antiepileptics, Anti-microbials, Opiod Monographs. In: Phelps SJ, ed. <u>Guidelines for</u> Administration of Intravenous Medications to Pediatric Patients, AJHP, 2001.

Hovinga CA, Phelps SJ. Attention Deficit Disorder. In: Herfinal E, Gourley D, eds. Textbook of Therapeutics; Drug and Disease Management, 7th ed. Baltimore, MD: Williams & Williams. May 2000.

Hovinga CA, Phelps SJ. Pediatric Epilepsy. In: Heusman B, ed. <u>Pediatric Care Module</u>. <u>Pharmacotherapy Self-Assessment Program III</u>. Kansas City, MO: American College of Clinical Pharmacy. January 2000.

Non-peer-reviewed publications

Hovinga CA. Anticonvulsant Mechanisms of Action. Neurospark, July 2011.

Hovinga CA. Medication Dosing in Pediatric Patients, A Careful Look at the Therapeutic Orphan. Neuroscience Pathways, March 2003.

Hovinga CA. What is All the Fuss about Ritalin? JPPT. 2001; 37:304-5.

Hovinga CA. Antiepileptic Drug Approval In Children: Where Are We Now?. American Epilepsy Society News. 2001; 10:1-6.

Hovinga CA. Role of Carnitine Supplementation During Valproate Therapy. Cleveland Foundation Epilepsy Newsletter, Spring 2001 Edition.

Hovinga CA. Singulair-A New Drug for Asthma. Le Bonheur Capsule 1998 Spring Edition.

Hovinga CA. Topiramate. Le Bonheur Capsule 1997 Fall Edition.

Non-print / Online materials

Hovinga CA. Acetazolamide. In: Panayiotopoulos C., ed. Atlas of Epilepsies. http://www.springer.com, 2009.

Hovinga CA. Systematic Evaluation of Treatments for Huntington's Disease. http://www.huntingtonproject.org/Default.aspx?tabid=50

Hovinga CA. Advances in the Treatment of Epilepsy. ASHP Annual Meeting Course 2004. Published http://ashp.omnibooksonline.com/2004/papers/PI-166.pdf, Program #204-000-04-262-L01.

Hovinga CA. New Agents in the Treatment of Pediatric Epilepsy. ASHP Annual Meeting Course 2004. Published http://ashp.omnibooksonline.com/2004/papers/PI-117.pdf, Program #204-000-04-243-L01.

Invited Reviews

<u>Pharmacotherapy Self-Assessment Program: Neurology Module 4th Edition</u> by American College of Clinical Pharmacy, 2001-2002.

Natural Products Explorer CD-ROM, 1th Edition by Facts & Comparisons. Doody Publishing 2000.

Medicinal Chemistry Tutorial, 1st Edition. by Roche V. Doody Publishing, 2000.

Pediatric Dosage Handbook 1999-2000, 6th Edition by Taketomo CK, Hodding JH, Kraus DM. Doody Publishing, 1999.

Ad Hoc Reviewer

ACCP PSAP Pediatric Review Board Annals of Pharmacotherapy Expert Opinion in Investigational Drugs iDrugs Journal of Pediatric Pharmacotherapy (and Board of Technical Consultants) Journal of Pharmacy Technology Lancet Neurology Pediatric Neurology Pharmacotherapy Therapeutic Innovation and Regulatory Science Journal

Editorial Responsibilities

Lexicomp Drug Information and Handbooks Content Advisor, Neurology and Pediatrics	2003-present
Cochrane Review-Epilepsy Group, Liverpool, UK	2010-2011
INVITED PRESENTATIONS	
International	
Use of Real World Evidence in Neonatal Clinical Trials. International Neonatal Consortium Meeting, Virtual.	Oct. 29, 2021
Infrastructure Needs: How Do We Create and Sustain a Network for the Conduct of Ethical Pediatric Trial? Harvard MRCT NIH R13 Conference on Pediatric Global Trials. Virtual.	Sept. 31, 2021
Real World Data: Use in Pediatric Drug Development Third Annual Pediatric Summit Meeting, Bayer Pharmaceuticals. Virtual.	Feb 8, 2021
United States Pediatric Clinical Trial Preparedness During COVID-19. Enpr-EMA Annual Meeting , Virtual.	Sept. 28, 2020
Institute for Advanced Clinical Trials in Children-Update on the US Perspective, C4C Launch Meeting, Berlin, Germany	May 15, 2018
SET-HD: Rationale and Progress. European Huntington's Disease (Euro-HD) Network, Aachen, Germany.	Jan. 30, 2005
SET-HD: High Output Screening in Neurodegenerative Diseases. Euro-HD Network , Aachen, Germany.	Jan. 29, 2005
National	
Co-creation: Ensuring Patients Are At the Heart of Trial Design. Reuters Events Pharma Clinical 2022 . Virtual.	May 18, 2022
Real World Data Focus on Neonatology, SOCRA Pediatric Trial Conference.	May 5, 2022
Study Methodologies in Pediatric Clinical Trials. New Horizons in Pediatric Drug Development Conference. Cetera.	Oct. 22, 2021
Platform Trials Application to Pediatric Rheumatological Conditions. Pediatric Rheumatology Clinical Study Group (PRCSG) Advisory Council Meeting. Virtual.	Feb 5, 2021

Epidemiology of Common Adolescent Medical Diagnosis. I-ACT for Children Pediatric Research Innovation Forum., Bethesda, MD.	Oct. 15, 2020
Practical Aspects of Gene Therapy Trials, SOCRA Annual Meeting, Virtual.	Sept. 25, 2020
COVID-19 in Pediatric Populations. I-ACT for Children's Developing Pediatric Treatments for COVID-19 Workshop, Virtual.	May 28, 2020
Learning Networks Applied to Pediatric Clinical Trials, I-ACT for Children's Design Meeting, Chicago, IL	Mar. 28, 2019
Pediatric Device Trials: Where are We Know?, SOCRA Pediatric Conference , St. Pete Beach, CA.	Feb. 27, 2019
Pediatric Research Innovation, PPHNet Annual Meeting , San Francisco, CA	Feb. 2, 2019
The Duchenne Muscular Dystrophy Platform Trial (DPT), Parent Project Muscular Dystrophy Annual Meeting , Orlando FL.	Jan. 20, 2018
Use of Cannabidiol in Pediatric Epilepsy: Current Evidence. American Society of Health-System Pharmacy Midyear Meeting. Orlando, FL.	Dec. 5, 2017
Counseling Women with Epilepsy on the use of Anti-Epileptic Drugs during Pregnancy. American Colleges of Clinical Pharmacy Annual Meeting. Phoenix, AZ.	Oct. 9, 2017
Toxin Safety Zone for Patients and Practitioners: A Practice Safety Review for Providers Injecting any Pediatric and Adolescent Hypertonia. American Academy of Physical Medicine and Rehabilitation Annual Assembly . New Orleans, LA.	Oct. 21, 2017
Toxin Safe Territory for Both Patients and Providers. American Academy for Cerebral Palsy and Developmental Medicine. Annual Meeting. Austin, TX.	Sept. 23, 2017
How to Incorporate Research into Child Practice. Child Life Council Annual Conference on Specialty Issues. Cincinnati, OH.	May 24, 2015
Neurology Board Review. Pediatric Pharmacy Advocacy Group Annual Meeting , Minneapolis, MN.	May 1, 2015
Autism Spectrum Disorders: Update on Diagnosis and Treatment. American College of Clinical Pharmacy Annual Meeting. Hollywood, FL.	Oct. 23, 2012

New Anticonvulsants and Their Role in Pediatric Epilepsies. American Society of Health-System Pharmacists Midyear Meeting. Anaheim, CA.	Dec. 7, 2010
The Pharmacogenomics of the New Generation Antiepileptics as They Relate to Different Pediatric Patients (from Neonate to Adolescent). American College of Clinical Pharmacy Annual Meeting . San Antonio, TX.	Oct. 19, 2010
Pharmacogenomics of Pediatric Epilepsy. Pediatric Pharmacy Advocacy Group Spring Meeting . Salt Lake, UT.	Apr. 16, 2010
Update on the Pharmacotherapy of Pediatric Epilepsy. American College of Clinical Pharmacy Spring Meeting. Phoenix, AZ.	Apr. 8, 2008
Anticonvulsants and Fertility, Pregnancy and Lactation. American College of Clinical Pharmacy Annual Meeting. Denver, CO.	Oct. 14, 2007
Neonatal Clinical Trials and Pharmacology. Workshop in Neonatal Seizure Trials. NIH/NINDS . Bethesda, MA.	
Ups and Downs of Anticonvulsant Therapy. Clinical Controversies in the Epilepsy Monitoring Unit. Professionals in Healthcare Symposium. The American Epilepsy Society and American Neurophysiology Society Annual Meeting .	Dec. 2, 2005
Systematic Evaluation of Treatments for Huntington's Disease. The HD Therapeutics Pipeline: From Drug Discovery to Clinical Trials Symposium. Presented at the NIH/NINDS Study Section . Philadelphia, PA.	Oct. 19, 2005
Disease Modification Therapy for Neurodegenerative Disease. Potential Therapies for Huntington's Disease Conference . HiQ Foundation, New York City, NY.	Aug. 24, 2005
Advances in the Treatment of Epilepsy. American Society of Health- System Pharmacists Annual Meeting, Orlando, FL.	Dec. 8, 2004
Use of the New Anticonvulsants in Children. PPAG Symposium, American Society of Health-System Pharmacists Annual Meeting, Orlando, FL.	Dec. 9, 2004
Translational Research In Neuroprotection Antiepileptogenesis. American Epilepsy Society Annual Meeting. New Orleans, LA.	Dec. 6, 2004

Systematic Evaluation of Treatments for Huntington's Disease (SET-HD): Updates of the First 10 Compounds. Presented at the NIH/NINDS Study Section Meeting . St. Louis, MO.	Nov. 4, 2004
Clinical Neurology Pediatric Annual Conference XXV , Miami Children's Hospital Brain Institute, Miami, FL	May 8, 2004
Neuroprotection in Parkinson's Disease. CINAPS. American College of Clinical Pharmacy. Atlanta, GA.	Nov. 4, 2003
New Antiepileptic Drug Therapy: A Decade Later. Where Are We Now? Ohio College of Clinical Pharmacy. Cleveland, OH.	Oct. 8, 2003
Pharmacotherapy of Attention Deficit Hyperactivity Disorder. Pediatric Advocacy Annual Conference . Dana Point, CA.	Oct. 3, 2003
Treatment of Refractory Neonatal Seizures. Pediatric Pharmacology Advocacy Group Neonatal Specialty Conference . Tucson, AZ.	Apr. 6, 2002
Neurodevelopment of the Preterm Neonate. Pediatric Pharmacology Advocacy Group Neonatal Specialty Conference . Tucson, AZ.	Apr. 6, 2002
Treatment of Status Epilepticus. Medical College of Georgia, Grand Rounds. Augusta, GA.	Mar. 10, 2003
Pediatric Neuroprotection: Mini-Sabbatical Experience. CNS PRN , American College of Clinical Pharmacy , Fall Meeting. Albuquerque, NM.	Oct. 21, 2002
Can Medications Prevent Epilepsy? Pediatric Pharmacotherapy Advocacy Group , Annual Meeting. St Petersburg, FL.	Oct. 2, 2002
Molecular Mechanisms of Drug Resistance in Epilepsy. Bethel- Cleveland Clinic Foundation International Symposium . Cleveland, OH.	May 19, 2002
Antiepileptic Drug Use in Women with Epilepsy: Case Studies-Panel. Cleveland Clinic Foundation Comprehensive Course. Painesville, OH.	May 18, 2002
Drug Interactions: Case Studies-Panel. Cleveland Clinic Foundation Comprehensive Course. Painesville, OH.	May 18, 2002
Developmental Pharmacokinetics of Antiepileptic Medications. Cleveland Clinic Foundation Comprehensive Course. Painesville, OH.	May 18, 2002

Side Effects of Antiepileptic Medications: Case Studies. Cleveland Clinic Foundation Comprehensive Course. Painesville, OH.	May 17, 2002
Antiepileptic Medications in Clinical Practice. Neuroscience National Symposium. Cleveland, OH.	Nov. 14, 2001
Antiepileptic Medication Selection: Case Studies. Ohio College of Clinical Pharmacy, Independence, OH.	May 4, 2001
New Antiepileptic Medications. Ohio College of Clinical Pharmacy , Independence, OH.	May 4, 2001
A Practical Approach to the Ketogenic Diet. American Society of Parental and Enteral Nutrition Annual Meeting , Nashville, TN.	Jan. 24, 2000
Regional	
Neonatal Seizures and Stroke, Northern Ohio Neonatal Nursing Symposium. Westlake, OH.	Oct. 16, 2006
OTHER PRESENTATIONS POSTERS AND ABSTRACTS	

OTHER PRESENTATIONS, POSTERS, AND ABSTRACTS

International

Wittenberg BA, Johnson J, Wirth K, Hovinga C. Inclusion of Family	Aug. 7, 2014
Advisors as Primary Investigators in Research Studies. The 6th	
International Conference on Patient-and Family-Centered Care in	
Vancouver, British Columbia, Canada. Abstract #0298-000318.	

National

Hovinga C, Neely D, Bradley J, Nambiar S, Noel G. Characterization of Jun.11, 2022 Published Information Available for Informing Treatment of Children with Serious Infections with Antibacterials Approved for Use in Adults but Have Not Yet Been Labeled for Use in Children. American Society of Microbiology, Annual Meeting, Washington, DC. Platform/Abstract 4311.

Gluck A, Davies A, McDonald J, Maltenfort M, Mitsnefes M,	Nov. 6, 2021
Dharnidharka V, Dixon, B, Flynn T, Somers M, Smoyer W, Neu A,	
Hovinga C, Skversky A, Eissing T, Kaiser A, Breitenstein S, Furth S,	
Forrest C, Denburg. Using Electronic Health Records to Evaluate	
Kidney Function Decline in Children with Chronic Kidney Disease.	
American Society of Nephrology Annual Meeting, Orlando, FL.	
Platform/Abstract SA-OR43.	

Hovinga C , Berry S, Larkindale J, Bronson A, Litvinchuk D, Ascheim D, Connor E. Improving Clinical Trials in Duchenne Muscular Dystrophy By Using A Novel Platform Study Approach., MDA Foundation Clinical and Scientific Annual Meeting. Orlando, FL, Abstract 41.	Jul. 2019
Hovinga C , Benson L BS, Allen J, McConoughey S, O'Brien V, Connor E, Survey of Pediatric Device Trial Experience Within the I- ACT for Children Research Network. SOCRA Pediatric Conference, St. Pete, CA, Abstract 2.1	Feb. 2019
Hovinga C , Berry S, Larkindale J, Bronson A, Litvinchuk D, Ascheim D, Connor E. Improving Clinical Trials in Duchenne Muscular Dystrophy By Using A Novel Platform Study Approach., Parent Project Muscular Dystrophy. Clinical Meeting. Orlando, FL, Abstract 23.	Jan. 2018
Titus JB, Hovinga C , Kime K, Bower N, Perkins F, Clarke D. Physicians' Perspectives in Utilizing Neuropsychological Services in Pediatric Patients With Epilepsy. American Epilepsy Society Annual Meeting. San Diego, CA. Abstract 2.291.	Dec. 2012
Watson M, Clarke DF, Hovinga C , Nussbaum N. The Use of Passive Functional MRI in Presurgical Planning for Pediatric Patients with Epilepsy. American Epilepsy Society Annual Meeting. San Diego. Abstract 2.161.	Dec. 2012
Hovinga CA , Kime K, Bower NR, Titus JB, Perkins FF, Clarke DF. Knowledge of Physicians and Practice Parameters Pertaining to the Diagnosis and Drug Management of Pediatric Epilepsy. American Epilepsy Society Annual Meeting. San Diego. Abstract 1.343.	Dec. 2012
Perkins F, Kime K, Bower N, Hovinga CA , Titus JB, Clarke DF. Physicians Practices for Epilepsy Surgery in Pediatrics. American Epilepsy Society Annual Meeting. San Diego. Abstract 1.342.	Dec. 2012
Pickel SF, Shen MW, Hovinga CA . Look Who's Talking: A Comparison of Perceptions Versus Objective Observations During Family Centered Rounds. Pediatric Academic Society. Boston, MA. Abstract 3821.301.	Apr. 30, 2012
Tylavsky F, Hovinga C , Murphy L, Graff C, Palmer F, Thomas F, Park V, Connor P, Volgyi E, Adkins R, Krushkal J. Genetic and Epigenetic Analysis of Early Childhood Phenotypic Outcomes in a Community-Based Longitudinal Cohort in Memphis, TN: The CANDLE Study. Heidelberg, Germany. <i>Genetic Epi</i> . 2012;36:159.	Sept. 2011

Pont SJ, Sage WM, Ripley , Millea S, Rao M, Hovinga CA, Kelder SH.	May 25, 2012
Mapping Child Fitness and Obesity: Leveraging data sharing and public	
reporting to mobilize system change. Platform. Austin, TX Annual	
Conference of the International Society for Behavioral Nutrition and	
Physical Activity (ISBNPA).	

Manjunath R, Asato M, Wheless J, Sheth R, **Hovinga C**, Phelps S, Pina-Dec. 2008 Garza E, Haskins L , Zingaro W. Burden of Epilepsy In Adolescents and Their Care Givers. American Epilepsy Society Annual Meeting. Seattle, WA.. Epilepsia. 2008; 49: 165.

Wheless J, Hovinga C, Clarke D, McGregor A, Perkins F, Durmeier M. Dec. 2008
Rapid Infusion of Loading Dose of Intravenous Levetiracetam with
Minimal Dilution: A Safety Study. American Epilepsy Society Annual
Meeting. Seattle, WA. *Epilepsia*. 2008; 49: 109.

Hovinga CA*, Foldvary-Shaefer N, Syed T, Riley J. LamotrigineDec. 2007Pharmacokinetics in Lactation and in the Neonate.American EpilepsySociety Annual Meeting.Seattle, WA. Epilepsia. 2008; 49: 97.

Foldvary-Shaefer N, Hovinga CA, Riley J, Syed T, Suciu GP.Dec. 2007Pharmacokinetics of Lamotrigine in Pregnancy: Correlation of Serum
and Salivary Concentrations. American Epilepsy Society Annual
Meeting. Philadelphia, PA. *Epilepsia*. 2007; 48: 337.Dec. 2007

Wheless JW, Asato MS, Sheth RD, **Hovinga CA**, Phelps SJ, Pina-Garza Dec. 2007 JE, Manjunath R, Haskins LS. Prevalence and Description of Seizure Plans in Adult US Population. American Epilepsy Society Annual Meeting. Philadelphia, PA. *Epilepsia*. 2007; 48: 342.

Hovinga CA*, Asato MS, Sheth RD, Wheless JW, Phelps SJ, Pina-
Garza JE, Manjunath R, Haskins LS. Impact of Non-Adherence to Anti-
Epileptic Drugs on Seizure Activity, Quality of Life, and Productivity.Dec. 2007American Epilepsy Society Annual Meeting. Philadelphia, PA.
Epilepsia. 2007; 48: 333.Epilepsia.Dec. 2007

Phelps SJ, Asato MR, Wheless JW, Hovinga CA, Pina-Garza JE,
Manjunath R, Haskins LS. Comparison of Neurologists and PatientDec. 2007Perceptions of Adherence of Epilepsy. American Epilepsy Society
Annual Meeting. Philadelphia, PA.. *Epilepsia*. 2007; 48: 334.Dec. 2007

Hovinga CA*, Phelps SJ, Asato MS, Sheth RD, Wheless JW, Pina-
Garza JE, Manjunath R, Haskins LS, Zingaro W. Neurocognitive and
Behavioral Factors Associated with Antiepileptic Drug Nonadherence.
American College of Clinical Pharmacy Annual Meeting.
 Pharmacotherapy. 2007; 29:1497Nov. 2007

Donald D, Hovinga CA , Lee K, Bobo K. Evaluation of Enoxaparin in Pediatric Patients. Pediatric Pharmacology Midyear Meeting. Austin, TX.	Mar. 31, 2007
Sahni J, Hovinga CA , Lee K. Aprotinin in Pediatric Cardiopulmonary Bypass. Pediatric Pharmacology Midyear Meeting. Austin, TX.	Mar. 31, 2007
Lefond CA,, Chan A, Hovinga CA , DeVeber G, Ichord B. Thrombolysis in children with arterial ischemic stroke: International results from the International Pediatric Stroke Study. International Stroke Conference 2007, Kissimmee, FL.	Feb. 16, 2007
Ravina B, DiProspero N,, Fagan SC, Fischbeck K, Harrison M, Hart R, Heemskerk J, Murphy D, Profenno L, Blumenstein R, Signer ER, Taylor P, Tretheway JA,. Hovinga CA . Systematic Evaluation of Treatments for Huntington's Disease (SET-HD): An Interim Report. Presented as a platform at HD 2004: Changes, Advances and Good News (CAG)n" to the Hereditary Disease Foundation Annual Meeting, Boston, MA.	Aug. 15, 2004
Hovinga CA* , Loddenkemper T, Holland KD, Chapman K, Shigeto H, Burrier C, Kellinghaus C. Assessment of the Antiepileptogenis Properties of Lamotrigine in a Hippocampal Stimulation Model of Prolonged Status Epilepticus. American Epilepsy Society Annual Meeting, Boston, MA. <i>Epilepsia</i> . 2003; 44 (Suppl. 9):201.	Dec. 10, 2004
Hovinga CA* . Efficacy and Safety of Levetiracetam in Children: A 2- Year Experience. Presented at the American College of Clinical Pharmacy Annual Meeting, Atlanta, GA.	Nov. 3, 2003
Srikijvilaikul T, Hovinga CA , Bingaman WE, Najm IM. Seizure Outcome Following Temporal Lobectomy in Temporal Lobe Cortical Dysplasia. Presented Annual Meeting of the American Epilepsy Society Annual Meeting, Seattle, WA.	Dec. 11, 2002
Serje A, Hovinga CA , Morris H, Merner K. A Pharmacokinetic Based Method for Conversion of Patients from Valproate to Lamotrigine Monotherapy. Presented Annual Meeting of the American Epilepsy Society Annual Meeting, Seattle, WA.	Dec. 9, 2002
Hovinga CA* , Morris H, Holland K, Foldvary N, Kotagal P, Wyllie E. Levetiracetam's Efficacy in Adults and Children. Platform presentation at Annual Meeting of the American Epilepsy Society Annual Meeting, Philadelphia, PA. <i>Epilepsia</i> 2001; 42 (Suppl 7). F.08.	Dec. 4, 2001
Lazdizabal DV, Morris HH, Hovinga, CA , Carreno M. The Tolerability and Pharmacokinetics of Oral Loading with Lamotrigine in Epilepsy	May 14, 2001

Monitoring Units. Presented at Neuroscience Research Day, Cleveland Clinic Foundation, Cleveland, OH.	
Lazdizabal DV, Morris HH, Hovinga CA , Carreno M. The Tolerability and Pharmacokinetics of Oral Loading with Lamotrigine in Epilepsy Monitoring Units. <i>Neurology</i> . 56 (Suppl. 3): A333.	Apr. 2001
Girish H, Kotagal P, Hovinga CA , Wyllie E, Morris H. Carbamazepine Elevation in A Group of Patients and the Role of Fentanyl., <i>Neurology</i> . 2001; 56 (Suppl. 3): A236.	Apr. 2001
Hovinga CA* , Rose DF, Phelps SJ. Appropriateness of Anticonvulsant Level Monitoring in A Pediatric Hospital. Poster presentation at the Annual Meeting of the American Epilepsy Society Annual Meeting, Orlando, FL. <i>Epilepsia</i> 1999; 40 (S7):121.	Dec. 1999
Hovinga CA* , Chicella M, Rose DF, Eades SK, Dalton J, Phelps SJ. Use of Intravenous Valproate In Two Pediatric Patients With Convulsive Status Epilepticus, presentation PPAG Annual Clinical Meeting, Kiawah Island, SC. <i>Journal of Pediatric Pharmacy Practice</i> September/October 1998.	Oct. 1998
Hovinga CA*, Shinn B. Student vs. Preceptor Assessments During Fourth-Year Clinical Experiences, Poster presentation at the ASHP MidYear Clinical Meeting, New Orleans, LA AJHP December 1996	Dec. 1996

Local Committee Memberships

The University of Texas at Austin

College of Pharmacy	
Member, Scientific Review Committee	2020-present.
Member, Curriculum Committee Interprofessional Education (IPE) Sub-	2015-2019
Committee	
Member, Research Infrastructure and Lab Safety Committee	2015-2019
Ascension Texas	
Chair, Clinical Trials	2017-2018
Chair, Compliance Committee	2016-2018
Member, Legal Committee	2016-2018
Member, Finance Compliance Committee	2016-2018
Seton Family Hospitals	
Hospitals Research Operations Committee	2014-2018
Research Training and Education Committee	2014-2018

Dell Children's Medical Center Research Planning Committee	2012-2018	
Seton Medical System Institutional Review Board Member IT Infrastructure and Review Committee	2012-2015 2012-2018	
University of Tennessee Health Science Center Clinical Research Center Member, Mentorship Committee College of Pharmacy	2009-2011	
Member, Postdoctoral Association Committee Member, Education Credentialing Committee Member, Research Committee	2007-2008 2007-2008 2006	
Cleveland Clinic Foundation-Case Western Reserve Member, Medical School Curriculum Committee	2002-2003	
Cleveland Clinic Foundation Member, Neurology Intensive Care Steering Committee Member, Pharmacy Department, Poison Prevention Committee	2001-2003 2001	
University of Tennessee Member, Residency and Fellowship Review Committee	1999-2000	
Creighton University School of Pharmacy and Allied Health Professions American Pharmacists Association Academy Member, Drug Information Committee 1993-1994		
Creighton University School of Arts and Sciences Member, Biology Department, Curriculum Committee	1990-1991	
Miami Children's Hospital Animal Research Committee/IACUC Committee	2004-2006	
Cleveland Clinic Foundation Neurology Clinical Center for Research Task Force	2001-2003	

EDUCATIONAL ACTIVITIES

Post Graduate Education

Seton Healthcare Family, Austin TX		
Craniofacial Fellowship Course	2014-2018	
Pharmacy Residency Course	2014-2018	
Research Methods and Human Subjects Protection	Oct. 2013-2018	1 CH
Seton Healthcare Family, Austin TX		
Research Methods and Human Subjects Protection	Oct. 2011, 2012	2 CH
University of Texas Southwestern Medical School		
Anticonvulsants and Psychiatry	Feb. 2013-2015	1 CH
Psychology Residency Program, Austin TX		
Management of Seizure Disorders	Oct. 2012, 2013	3 CH
Neurology Residency Program, Austin, TX		
Miami Children's Hospital, Miami, FL		
Clinical Trial Design in Neurosciences	Nov. 2004, Sept. 2005	2 CH
Basic Neuropharmacology: Fellowship Course	Nov. 2004, Sept. 2005	2 CH
Cleveland Clinic Foundation, Cleveland, OH		
Clinical Trial Design and Regulatory Issues, Laboratory	2001, 2002, 2003	2 CH
Neuropharmacology Lecture and Case Series	2001, 2002, 2003	6 CH
Neuropharmacology Weekly Teaching Rounds	Jan. 2001-2003	
Creighton University School of Pharmacy and Allied Health Professi	ons	
Functional Anatomy Web-based Instruction, Laboratory	2001, 2002, 2003	4 CH
General Physiology Web-based Instruction, Laboratory	Spring 2001	4 CH
Clinical Experiential Rotations		
University of Texas at Austin, College of Pharmacy, Austin, TX		
Pediatrics, Clerkship preceptor	2013-2021	
University of Tennessee, College of Pharmacy, Memphis, TN		
Pediatric Neurology Pharmacokinetics/Neurology. Clerkship, preceptor	1997-2011	
Pharmacokinetics/Neurology. Clerkship, co-preceptor	1997-2011	
Parental Nutrition. Clerkship, co-preceptor	1997-2011	

Graduate Lectures

University of Texas at Austin, Dell Medical School DMS 2020 Foundations in Interprofessional Collaborative Practice - Faculty Facilitator	2016-present	1 CH
University of Texas at Austin, College of Pharmacy Drug Development PHM282 Clinical Perspectives	2020-present	2 CH
Special Populations PHM12SP/396D Clinical Pearls in Pediatrics PHM12SP/396D Special Dosing and Administration in Pediatrics PHM12SP/396D Fluid Replacement in Pediatrics PHM12SP/396D Pharmacokinetics and Pharmacodynamics in Pediatrics PHM12F Professional Development Convocation. Recitation/Lab	2012-2020 2012-2020 2012-2020 2012-2020 2012-2020	1 CH 1 CH 1 CH 1 CH 1 CH
Therapeutics III 11F/695F Epilepsy, Pharmacotherapeutics III, Lecture	2012-present	3 CH
DeBusk College of Osteopathic Medicine, Lincoln Memorial University, Harrogate, TN		
Psychostimulant and ADD/ADHD Pharmacology, Neuroscience, Lecture	2007	1 CH
Antiepileptic Pharmacology, Neuroscience, Lecture	2007	2 CH
University of Tennessee, College of Pharmacy, Memphis, TN		
Pediatrics Selective, Lecture, Case Discussion Brain Development and Neural Tube Defects / Pediatric Epilepsy-Pharmacotherapy	2008, 2009	2 CH
Therapeutics I. Ischemic and Hemorrhagic Stroke Lecture.	2008, 2009	3 CH
Neonatal Selective, Lecture, Case Discussion. Brain Development and Common Neurological Disorders / Neonatal Seizures	2007, 2008	2 CH
Neurology Selective, Lecture-Course Director.	2007	2 CH
Special Problems in Pharmacy, Pediatric Neurology Research, Projects Course	2006-2010	2 CH
Attention Deficit Hyperactivity Disorder. Applied Therapeutics V Lecture	2006-2010	4 CH
Autism. Applied Therapeutics V Lecture	2006-2010	4 CH
Introduction to Pharmacy and the Healthcare Environment, Recitation.	2006-2009	2 CH
Anticonvulsants, Applied Pharmacokinetics Lecture, Recitation.	1999, 2006	2 CH
Phenytoin. Applied Pharmacokinetics. Lecture	1998	2 CH
The Common Cold and Fever. Pediatric Selective Lecture	1998	1 CH
Diaper Rash, Thrush, and Fever. Pediatric Selective Lecture	1998	1 CH
Febrile Seizures. Pediatric Selective Lecture	1998-2000	1 CH
Antipyretics. Over-the Counter Medications Lecture	1998-2000	2 CH
Attention Deficit Hyperactivity Disorder. Pediatric Selective Lecture	1999-2000	2 CH

Congenital Heart Disease. Applied Therapeutics I Lecture Pediatrics. Therapeutics I Lecture/Clerkship	1998-1999 1997	2 CH 2 CH
Epilepsy. Introduction to Therapeutics, Lecture	1997	1 CH
Undergraduate Courses		
Creighton University, School of Arts and Science, Omaha, NE		
Introductory Biology Laboratory, Lecture I	1991, 1992	1 CH
Introductory Biology Laboratory, Lecture II	1991, 1992	1 CH
ADVISING AND MENTORING		
Graduate Education Research Mentorship		
Kimberly Lewis, RN, MSN, PhD(c) –" Factors Influencing Hyperlipidemia in Children with Juvenile Arthritis" The University of Texas at Austin, School of Nursing	2014-2016	
Komal Gupte, PhD(c) – "The Cost of Refractory Epilepsy in Adults in Texas" The University of Texas at Austin, College of Pharmacy	2014	
Brittany Wittenberg, PhD – "Special Needs Assessment and Plan (SNAP) Intervention in Children with Sensory Integration Disorder" The University of Texas at Austin, School of Human Ecology	2013-2016	
Residents		
Pharmacy Practice in Psychophamacology and Medicine-Health Outcom	nes Research,	
The University of Texas Austin, College of Pharmacy		
Michelle Blair, PharmD.	2013	
Doctor of Pharmacy		
Pediatric Residency, Le Bonheur Children's Medical Center, Memphis,	TN	
Bess Flynn, PharmD.	2008-2009	
Cynthia Hanson, PharmD.	2008-2009	
Pratish Patel, PharmD.	2008-2009	
Kerri Parks, PharmD.	2008-2009	
Jessica Robinson, PharmD.	2008-2009	
Megan Foster, PharmD.	2007-2008	
Becky McGee, PharmD.	2007-2008	
David Shoop, PharmD.	2007-2008	
Emma Tillman, PharmD.	2007-2008	
David Donald, PharmD.	2006-2007	
Kelly Earhart, PharmD.	2006-2007	
Curtis Petty, PharmD.	2006-2007	
Jasmine Sahni, PharmD.	2006-2007	
Chastity Sheldon, PharmD	2006-2007	
Doctor of Medicine	_	
Neuropharmacology-Neurology Fellow Cleveland Clinic, Cleveland, OF		
Tobias Loddenkemper, M.D.	2002-2003	
Nadine Chehab PharmD.	2002-2003	

Andreea Popas, PharmD.	2002-2003
Cornelia Drees, M.D.	2001-2002
Ajay Gupta, M.D.	2001-2002
Rhonda Rhea, PharmD.	2001-2002
Adria Serje, M.D.	2001-2002
David Lazdizabal, M.D.	2000-2003

EXTERNAL EDUCATIONAL ACTIVITIES: LOCAL GRAND ROUNDS/CONTINUING EDUCATION

Central Texas Epilepsy Foundation, Austin, TX Cannabinoids in the Treatment of Epilepsy.	Jan. 14, 2015
Annual Central Texas Dental Symposium, Austin, TX Top Pediatric Medications.	Apr. 19, 2013
Dell Children's Medical Center Epilepsy Symposium, Austin, TX Mechanisms of Action of Anticonvulsants From Bromides to Lacosamide.	May 7, 2012
Seton Hospital, Austin, TX. Neuropsychopharmacology and Epilepsy Anticonvulsant Teaching Course	Nov. 8, 2012 Oct. 7-10, 2012
MidSouth Epilepsy Support Foundation, Memphis, TN First and Second Generation Antiepileptic Drugs. Investigational Antiepileptic Medications: Introducing Them Into Practice.	Jun. 9, 2009 Feb. 10, 2009
Office of Clinical Pharmacology, FDA, Silver Springs, MD Translational Research in Neonatal Seizures.	Jun. 8, 2009
Middle and Western Tennessee Epilepsy Foundation, Annual Conference, Jackson, TN Medication Matters In Epilepsy.	Feb. 21, 2009
Dell Children's Medical Center Grand Rounds, Austin, TX Neonatal Seizures	Mar. 17, 2009
Le Bonheur Children's Medical Center Grand Rounds, Memphis, TN Pharmacology of Pediatric Epilepsy	Oct. 17, 2007
Ortho McNeil Pharmaceuticals, Miami, FL Pharmacokinetics of Anticonvulsants.	Jun. 4, 2004
Northeast Ohio Consultant Pharmacists, Elyria, OH Epilepsy in the Elderly.	Aug. 22, 2003
Elan Educational Conference. Cleveland, OH Practical Use of Zonegran.	Mar. 13, 2003
Cleveland Clinic Foundation Headache Staff Conference, Cleveland, OH Migraine Pharmacology.	Nov. 12, 2002

Pediatric Epilepsy Case Conference Bioactivation and Idiosyncratic Drug Reactions.	Nov. 6, 2002
GlaxoSmithKline CNS Preceptorship, Cleveland, OH Pharmacology of Headache and Migraine.	Oct. 31, 2002
Cleveland Clinic Foundation Epilepsy Grand Rounds: Drug Interactions and Epilepsy.	Oct. 25, 2002
Neurology Grand Rounds: Antiepileptogenic Drugs in Epilepsy. Epilepsy Postgraduate Course: Practical Guide to the New Anticonvulsants.	Sept. 23, 2002 Sept. 9, 2002
Epilepsy Postgraduate Course: Pharmacology of the Traditional Anticonvulsants.	Sept. 8, 2002
Epilepsy Postgraduate Course: Research Design and Methods. Neurology Research Conference: Pharmacokinetics of Anticonvulsants in Neonates.	Sept. 6, 2002 Jun. 7, 2002
Pediatric Neurology Grand Rounds: Overview of New Legislation Affecting Pediatric Drug Research (Is The Rule Dead?).	Jan. 14, 2002
Pharmacy Grand Rounds: Idiopathic Side Effects of the Newer Anticonvulsants: Relevance to Pediatric Patients.	Jan. 9, 2002
Pediatric Neurology Grand Rounds: Update on Lamotrigine Induced Rash: Time to Weigh the Evidence.	Jan. 7, 2002
Pediatric Grand Rounds: Bioactivation and Hypersensitivity Reactions in Epilepsy Across the Lifespan.	Nov. 5, 2002
Grand Rounds: Developmental Pharmacokinetic Pharmacokinetics Across the Lifespan.	Nov. 5, 2002
Pediatric Neurology-Epilepsy Teaching Conference: Monotherapy Trial Design in Refractory Epileptic Patients.	Oct. 21, 2001
Pediatric Noon Conference: Neuropharmacology 101 in Pediatric Patients: Part I.	Oct. 29, 2001
Review of The Monotherapy Trial Design Considerations in Epilepsy. OrthoMcNeil Pharmaceuticals. Cleveland Clinic Foundation, Cleveland, OH,	Sept. 27, 2001
Pediatric Neurology-Epilepsy Teaching Conference: Antiepileptic Pharmacology in the PICU: Part II.	Jun. 27, 2001
Pharmacotherapy Update, Lecture Series. Antiepileptic Medications. Pharmacotherapy Update, Lecture Series. Antiepileptic Medications. Pediatric Neurology-Epilepsy Teaching Conference: Antiepileptic Pharmacology in the PICU: Part I.	Jun. 25, 2001 Jun. 11, 2001 Jun. 6, 2001
Neuropharmacology Rounds: New Antiepileptic Medications Divisions of Pharmacy and Nursing Health Odyssey 2001: Through A Looking Glass: "New Antiepileptic Medications: A Practical Approach."	Apr. 25, 2001 Apr. 23, 2001
Pediatric Neurology-Epilepsy Teaching Conference: Pharmacological Treatment of Nonconvulsive Status Epilepticus.	Mar. 16, 2001
Neuroprotective Properties of the Newer Antiepileptic Medications. Pharmacological Treatment of Nonconvulsive Status Epilepticus PICU Staff: Antiepileptic Pharmacology in the PICU.	Feb. 23, 2001 Dec. 14, 2000 Nov. 16, 2000

Use of Intravenous Valproate in Generalized Convulsive Status Epilepticus.	Feb. 10 & 24, 2000
OrthoMcNeil Pharmaceuticals CNS Preceptorship. Anticonvulsant Mechanisms and Therapeutic Uses.	Sept. 26, 2002
GlaxoSmithKline Preceptorship, Cleveland, OH Migraine Pharmacotherapy: Making Sense of All the Choices.	Nov. 5, 2002
Abbott Pharmaceuticals. Cleveland, OH Clinical and Basic Considerations in Neuropharmacology.	Dec. 14, 2001
Elan Pharmaceuticals, Cleveland, OH A Mechanistic Approach to Drug Interactions.	Nov. 17, 2001
University of Connecticut School of Pharmacy Use of Intravenous Valproate in Generalized Convulsive Status Epilepticus.	Jan. 10, 2000
University of Colorado Health Science Center Use of Intravenous Valproate in Generalized Convulsive Status Epilepticus.	Jan. 14, 2000
University of Tennessee School of Pharmacy Use of Intravenous Valproate in Generalized Convulsive Status Epilepticus.	Jan. 17, 2000
University of Tennessee and Tennessee Pharmacists Association 1999 Basic Pharmacology and Therapeutics: Common Pediatric Diseases. 1999 Basic Pharmacology and Therapeutics: Attention Deficit	Oct. 15, 1999 Oct. 15, 1999
Hyperactivity Disorder.	