

Curriculum Vitae

Catherine M.T Sherwin, BSc (Hons), Ph.D., MSc. CPI, FCP

Department of Pediatrics

Wright State University, Boonshoft School of Medicine

Dayton Children's Hospital

One Children's Plaza

Dayton, OH, USA, 45404-1815

+1 937-641-4773

sherwinc@childrensdayton.org

catherine.sherwin@wright.edu

Last Updated: 06/26/2019

Personal Data

Citizenship: United States

Additional Citizenship: Australia

Languages: English

Current Position(s)

11/01/2018 - present

Professor of Pediatrics

Department of Pediatrics, Wright State University (WSU), Boonshoft School of Medicine (BSOM), Dayton, OH

11/01/2018 – present

Vice Chair for Research

Department of Pediatrics, WSU, BSOM/ Dayton Children's Hospital (DCH), Dayton, OH

Education

<u>Years</u>	<u>Degree</u>	<u>Institution (Area of Study)</u>
--------------	---------------	------------------------------------

Graduate Training

2011 - 2013	M.Sc.	University of Utah (Clinical Investigation) Salt Lake City (SLC), UT, USA
-------------	-------	--

2009 - 2011	Postdoc.	Cincinnati Children's Hospital Medical Center, Division of Clinical Pharmacology Postdoctoral Fellowship (Pediatric Clinical Pharmacology) Cincinnati, OH, USA
-------------	----------	--

2007 - 2009	Postdoc.	The University of Otago, Department of Women's and Children's Health Postdoctoral Fellowship (Pediatric Clinical Pharmacology) Dunedin, Otago, New Zealand
-------------	----------	--

Doctoral Training

2004 - 2007	Ph.D.	The University of Otago, Dunedin School of Medicine (Pediatric Clinical Pharmacology) Dunedin, Otago, New Zealand
-------------	-------	--

Other Training

2003 - 2004	No	Otago School of Medicine and Health Sciences, Department Pharmacology & Toxicology Degree (Summer Studentship - Toxicology) Dunedin, Otago, New Zealand
-------------	----	---

2002 - 2003	No	Christchurch School of Medicine and Health Sciences, Canterbury Health Laboratory Degree (Summer Studentship - Toxicology) Christchurch, Canterbury, New Zealand
-------------	----	--

Undergrad.

2000 - 2003	B.Sc.	Lincoln University (Toxicology and Immunology) (Hons) Canterbury, New Zealand
-------------	-------	--

1993 - 1995 B.N. Australian Catholic University (Nursing)
Sydney, NSW, Australia

Certification

1992 - 1993 Cert. Meadowbank TAFE College, Concord General Repatriation Hospital (Adv. Certificate Enrolled Nursing)
Sydney, NSW, Australia
1991 - 1992 Cert. Ultimo TAFE College (Veterinary Nursing)
Sydney, NSW, Australia

Board Certifications

2018 – 2020 Certified principal investigator (CPI), Association of Clinical Research Professionals (ACRP)
2011 - present Applied/Clinical Pharmacology, American Board of Clinical Pharmacology (ABCP)

Licenses/Certification

2014 - 2016 American Heart Association: Basic Life Support (UT)

Clinical Research Areas of Specialization

Pediatric Clinical Pharmacology

Research Interests

Clinical Pediatric Pharmacology and Toxicology, Pediatric Clinical Research, Clinical Trial Simulation, Personalized/Precision (Individualized) Medicine, Modeling and Simulation (Pharmacometrics), Optimal Trial Design, Therapeutics, Pharmacodynamics, Pharmacogenomics, Pharmacokinetics, Medical and Environmental Toxicology

Academic Appointments (History)

WSU, BSoM, Department of Pediatrics, / DCH

11/01/2018- present Hire, Professor
11/01/2018- present Vice chair for research (Pediatrics)

University of Utah, School of Medicine, Department of Pediatrics, (Division of Pediatric Clinical Pharmacology)

11/16/2010 – 05/01/2018

07/01/2017 Promotion, Associate Professor
07/01/2017 Tenure, Associate Professor
07/16/2015 Track switch, Tenure track, Assistant Professor
02/08/2011 Track switch, Research track, Research Assistant Professor
11/16/2010 Hire, Adjunct track, Adjunct Assistant Professor

The University of Utah, College of Pharmacy, Department of Pharmacotherapy

07/01/2016 - present Promotion, Adjunct Associate Professor
07/01/2016 Hire, Adjunct track, Adjunct Assistant Professor

The University of Utah, College of Pharmacy, Department of Pharmaceutics and Pharmaceutical Chemistry

01/01/2016 – 06/30/2019

07/01/2017 Promotion, Adjunct Associate Professor
01/01/2016 Hire, Adjunct track, Adjunct Assistant Professor

The University of Utah, College of Pharmacy, Department of Pharmacology and Toxicology

05/16/2015 – 06/30/2019

07/01/2017 Promotion, Adjunct Associate Professor
05/16/2015 Hire, Adjunct track, Adjunct Assistant Professor

Additional Academic/Adjunct Positions

The University of Cincinnati, Division of Pharmaceutical Sciences, Winkle College of Pharmacy

07/01/2017 - present

Promotion, Adjunct Associate Professor

07/01/2015

Hire, Adjunct track, Adjunct Assistant Professor

University of Minnesota, Dept. Experimental & Clinical Pharmacology, College of Pharmacy

07/01/2018- present

Hire, Adjunct track, Adjunct Associate Professor

Professional Experience

Full and Part time positions

2018- present Professor of Pediatrics, Department of Pediatrics, WSU, BSoM, Dayton, OH

2018- present Vice Chair for Research, Department of Pediatrics, WSU, BSoM/ DCH, Dayton, OH

2017- present Special Government Employee (SGE) for Pharmaceutical Science and Clinical Pharmacology (PSCP) Drugs Advisory Committee, U.S. FDA, Silver Spring, MD

2017- present Special Government Employee (SGE) for Antimicrobial Drugs Advisory Committee (AMDAC), Drugs Advisory Committee, U.S. FDA, Silver Spring, MD

2017 - 2018 Without Compensation (WOC) Employee, VA, SLC Health Care System, SLC, UT

2017 - 2019 Researcher/consultant, Intergovernmental Personnel Act (IPA), U.S. FDA, with Dr. Gil Burkhart, Pediatric Therapeutics Program, Silver Spring, MD, Office of Pediatric Therapeutics (OPT), Office of Translational Sciences, CDER, Silver Spring, MD

2016 - 2018 Chief Division of Clinical Pharmacology, University of Utah, SLC, UT

2015 - 2016 Interim Chief Division of Clinical Pharmacology, University of Utah, SLC, UT

2015 - 2017 Assistant Professor (Tenure Track), Division of Clinical Pharmacology, University of Utah School of Medicine,

2011 - 2015 Research Track, Research Assistant Professor, Division of Clinical Pharmacology & CTO, University of Utah School of Medicine

2010 - 2011 Adjunct Assistant Professor, Division of Clinical Pharmacology & Clinical Trials Office (CTO), University of Utah School of Medicine

2009 - 2010 Research Postdoctoral Fellow, Cincinnati Children's Hospital, Division of Clinical Pharmacology and Division of Rheumatology, Cincinnati, OH

Research Postdoctoral Fellow, NIH (T32) Training Fellowship Pediatric Clinical Pharmacology. Project Title: Focus on Pharmacokinetics, Pharmacodynamics and Pharmacogenetics and the Application of Population Modeling Techniques to Develop Innovative Personalized Dosing Algorithms in Pediatric Rheumatology of Mycophenolate-Mofetil (Cellcept) and Corticosteroid Therapy in Children with Lupus

2008 - 2008 Case Tutor (2nd year Medicine), Faculty of Medicine, University of Otago, Dunedin School of Medicine, Dunedin, Otago

Involved in teaching integrated case studies to 2nd-year medical students

2007 - 2009 Masonic Research Postdoctoral Fellow, University of Otago, Dept. of Women's and Children's Health, School of Medicine, Dunedin, Otago

Postdoctoral Research Fellow, Dept. of Women's and Children's Health, University of Otago, Dunedin, New Zealand. Freemasons of New Zealand Postgraduate Fellowship in Pediatrics and Child Health. Project Title: Investigating Clinical Pharmacology of Aminoglycosides in Neonates

2007 - 2008 Case Tutor for Pharm/Tox students and Pharmacy students, University of Otago, Dept. Pharmacology and Toxicology, Dunedin, Otago

Involved in the teaching of integrated case studies to 2nd and 3rd-year pharmacy and pharmacology students.

2006 - 2007 Teaching Fellow, University of Otago, Dunedin School of Medicine, Dunedin, Otago

Involved in the development of new first-year health science papers, writing of laboratories/manuals and self-directed learning module

2006 - 2007 Tutor for microbiology/immunology, physiology, zoology, and pre-health science, Pacific Island Centre and Maori Centre, University of Otago, School of Medicine, Dunedin, Otago

Prepared and gave small group tutorials in support of course work

2005 - 2005 Tutor for microbiology/immunology and physiology, Faculty of Medicine and Department of Microbiology and Immunology, University of Otago, Dunedin, Otago

Prepared and gave small group tutorials in support of course work

- 2004 - 2007 Senior laboratory demonstrator / Leader, University of Otago, Department of Microbiology, Immunology, Physiology, and Department of Zoology, Dunedin, Otago
Guided students through various laboratory exercises, marked laboratory exams and assignments
- 2004 - 2006 Phlebotomy Technician, Dunedin Public Hospital, Dunedin, Otago
- 2004 - 2004 Demonstrator / Tutor, University of Otago, Department of Pharmacology and Toxicology, Dunedin, Otago
Guided students through various laboratory exercises. Prepared and gave group tutorials
- 2001 - 2003 Senior Veterinary Nurse, After Hours Veterinary Centre, Christchurch, Canterbury
- 1997 - 1999 Nurse, Southern Cross Private Hospital, Cardiothoracic Unit, Christchurch, Canterbury
- 1997 - 1998 Phlebotomy Technician, Christchurch Hospital, Christchurch, Canterbury
- 1995 - 1996 Nurse, St George Private Hospital, Cardiothoracic Unit, Sydney, NSW
- 1994 - 1996 Nurse, St George Public Hospital, Cardiothoracic Unit, Sydney, NSW
- 1993 - 1994 Nurse Training Program, Concord General Repatriation Hospital, Sydney, NSW
- 1991 - 1992 Veterinary Nurse, Kogarah Veterinary Clinic, Sydney, NSW

Editorial Experience

- 2018- present *Specialty Chief Editor for The Frontiers Journal Obstetric and Pediatric Pharmacology*
- 2018 - 2018 Editor for Expert Review of Precision Medicine
- 2017- present *Senior Editor for British Journal of Clinical Pharmacology (BJCP)*
- 2017- present Honorary Editorial Board for Clinical Pharmacokinetics
- 2017- present Editorial Board for Clinical Pharmacology and Therapeutics (CPT)
- 2017- present Editorial Board for The Journal of Clinical Pharmacology (JCP)
- 2016- present Editorial Advisory Board for BMJ Paediatrics Open
- 2016- present Editorial Board for Clinical and Translational Science
- 2016- present Honorary Editorial Board of Pediatric Drugs
- 2015- present *Section Editor for Clinical Pharmacology Section for BMC Pharmacology and Toxicology*
- 2016 - 2017 Editorial Board for International Journal of Pharmacokinetics
- 2016 - 2017 Editorial Board for Expert Review of Precision Medicine and Drug Development
- 2016 - 2017 Editorial Board for Journal of Pediatric Infectious Diseases
- 2015 - 2017 Executive Editor for British Journal of Clinical Pharmacology
- 2014 - 2016 Editorial Board for Current Therapeutics Research

Reviewer Experience (peer-review journals)

Anesthesia & Analgesia; Archives Of Disease in Childhood; BMC Pharmacology And Toxicology; Basic & Clinical Pharmacology & Toxicology; British Journal Of Clinical Pharmacology; Burns; Clinical Pharmacology and Therapeutics: Pharmacometrics & Systems Pharmacology; Clinical Pharmacokinetics; Clinical Pharmacology And Therapeutics; Clinical Research And Regulatory Affairs; Clinical Therapeutics ;Current Therapeutics Research; Drug Metabolism And Disposition ;European Journal Of Clinical Pharmacology ;Expert Opinion On Drug Discovery ;Expert Opinion On Drug Metabolism & Toxicology; Expert Review of Clinical Pharmacology ;International Journal Of Antimicrobial Agents ;Journal Clinical Pharmacology In Drug Development ;Journal Of Antimicrobial Chemotherapy ;Journal Of Bioequivalence And Bioavailability; Journal Of Burn Care Research; Journal of Neonatal-Perinatal Medicine; Journal Of Pharmacokinetics And Pharmacodynamics; Journal Of Pharmacy And Pharmacology; Journal Of The Pediatric Infectious Diseases Society; Pediatric Anesthesia; Pediatric Drugs; Pediatric Pulmonology; Pediatric Research; Pediatrics; Pharmaceutical Research; Pharmacotherapy; The Journal Of Clinical Pharmacology; The Journal Of Maternal-Fetal & Neonatal Medicine; The Journal Of Pediatric Pharmacology And Therapeutics; The Journal of Pharmacology And Experimental Therapeutics; Therapeutic Drug Monitoring

Scholastic Honors

- 2019 Nominated by Medical Student Class of 2019 for Careers in Medicine Mentoring Award, University of Utah School of Medicine
- 2018 Editors' Performance Prize British Journal of Clinical Pharmacology (BJCP) 2017
- 2018 ACCP Top Member-Get-a-Member Award
- 2017 Editors' Performance Prize BJCP 2016
- 2017 ACCP Top Member-Get-a-Member Award

- 2017 Manuscript recognized as most accessed article from BMC Pharmacology and Toxicology. Yu T, Balch AH, Ward RM, Korgenski EK, **Sherwin CM** (2016). Incorporating pharmacodynamic considerations into caffeine therapeutic drug monitoring in preterm neonates. *BMC Pharmacol Toxicol*, 17(1), 22.
- 2016 Manuscript received the 2016 AAPS Pharmaceutical Research Award. De Cock RF, Allegaert K, **Sherwin CM**, Nielsen EI, de Hoog M, van den Anker JN, Danhof M, Knibbe CA. A neonatal amikacin covariate model can be used to predict ontogeny of other drugs eliminated through glomerular filtration in neonates. *Pharm Res*. 2014 Mar;31(3):754-67. doi: 10.1007/s11095-013-1197-y. Epub 2013 Sep 25.
- 2016 Received the ACCP Excellence in Achievement Award
- 2016 - 2016 Tuition scholarship for the David Eccles School of Business Healthcare Executives Leadership Course through the UUMG Executive Committee
- 2015 ACCP Top Member-Get-a-Member Award
- 2015 University of Utah Travel Scholarship to attend the 2015 AAMC Early-Career Women Faculty Professional Development Seminar held July 11-14, 2015 in Englewood, CO
- 2014 Appointed Fellow (FCP) of the American College of Clinical Pharmacology (ACCP)
- 2012 - 2013 Comparative Effectiveness Research Tuition Scholarship, Translational Comparative Effectiveness Research Scholars Program, CCTS and Department of Pediatrics, University of Utah, SLC, UT
- 2012 Manuscript nominated for British Journal of Clinical Pharmacology 2012 Prize for Trainees (**Sherwin CM**, Sagcal-Gironella AC, Fukuda, T, Brunner, HI, Vinks, AA. Development of a population pharmacokinetic model with enterohepatic circulation of mycophenolic acid in patients with childhood-onset systemic lupus erythematosus (cSLE). *Br J Clin Pharmacol*. 2012 May;73(5):727-40)
- 2011 - 2013 Pediatric Clinical and Translational (PCAT) Research Scholars Program, University of Utah School of Medicine, SLC, UT
- 2009 - 2011 NIH (T32) Fellowship Training Grant, Division of Clinical Pharmacology and Division of Rheumatology, Cincinnati Children's Hospital Medical Center, Cincinnati, OH
- 2008 - 2008 University of Otago – HEDC Individual Tutor Evaluation/Award for (2nd year Medicine), Faculty of Medicine
- 2007 - 2009 Freemasons of New Zealand Postgraduate Fellowship in Pediatrics and Child Health.
- 2006 - 2006 University of Otago – HEDC Individual Tutor Evaluation/Award for Maori Centre teaching
- 2004 - 2007 University of Otago Postgraduate Scholarship, New Zealand
- 2004 - 2004 University of Otago – HEDC Individual Teacher Evaluation/Award for Dept. Pharmacology and Toxicology teaching
- 2003 - 2004 Otago Medical Research Foundation Summer Scholarship
- 2002 - 2003 Canterbury Medical Research Foundation Summer Scholarship

Administrative Experience

Administrative Duties

- 2018- present Director, Pediatric Clinical Pharmacology Group, Dept. Pediatrics, BSoM, Dayton, OH
- 2018- present Regent on the Board for ACCP (elected by ACCP's voting membership and serve to set policy and annual or longer-term goals and objectives for the organization)
- 2018- present Director, Member of the Board for American Board of Clinical Pharmacology (ABCP) (the accrediting body for clinical pharmacology training programs and administration of the clinical pharmacology board examination)
- 2016 - 2018 Chief Division of Clinical Pharmacology, University of Utah, SLC, UT
- 2015 - 2016 Interim Chief Division of Clinical Pharmacology, University of Utah, SLC, UT
- 2014 - 2018 Director of Pharmacometrics/Utah Pharmacometrics Group, CTO, Department of Pediatrics, University of Utah
- 2011 - 2011 Women & Child Institute Faculty/Career Development Design Group, Department of Pediatrics, University of Utah
- 2011 - 2014 Education Committee for Clinical Research Coordinators (CTO, Clinical Pharmacology & Adolescent Medicine), Department of Pediatrics, University of Utah
- 2011 - 2012 Site organizer and co-coordinator for NIH "Principles of Clinical Pharmacology" course, video cast at University of Utah, SLC, UT
- 2009 - 2010 Site organizer and co-coordinator for NIH "Principles of Clinical Pharmacology" course, video cast at Cincinnati Children's Hospital, Cincinnati, OH

Professional Organization & Scientific Activities

- 2019 - 2020 Member, ACCP 2020 Annual Meeting Program Committee
- 2018 - 2019 Member, ACCP 2019 Annual Meeting Program Committee "Reflecting on our history & shaping the future of clinical pharmacology" Chicago

2018 Mentor, American Society for Clinical Pharmacology and Therapeutics (ASCPT), Speed mentoring at Annual Meeting, Orlando, FL

2018 - 2019 Past Chair, ASCPT, SPO community

2018- present Member, ACCP, Nominations Committee

2018 - 2019 Member, American Association of Pharmaceutical Scientists (AAPS), PharmSci360 - AAPS Annual Meeting Content Programming Committee

2018- present Chair of ACCP Education Committee

2018- present Member, ABCP Examination Committee

2018 - 2019 Chair, AAPS, PharmSci360 AAPS Annual Meeting, Track Chair, Clinical Pharmacology, Scientific Programming Committee

2018 - 2018 Abstract Reviewer, Pediatric Academic Societies (PAS)

2018 - 2018 Proposal Reviewer, PAS, Reviewer of proposals and workshops for the annual meeting

2018 - 2019 Member, ACCP 2019 Annual Meeting Program Committee

2017 Mentor, AAPS, AAPS Annual Meeting, Career Zone Mentor, Resume Reviewer, San Diego, CA

2017 Mentor, AAPS, Mentoring Breakfast—2017 AAPS Annual Meeting and Exposition, San Diego, CA

2017 - 2018 Vice Chair, AAPS, Clinical Pharmacology and Translational Research (CPTR) Section

2017 Poster Judge, AAPS - Rocky Mountain Discussion Group, AAPS RMDG Annual Meeting, Albuquerque, NM

2017 - 2017 Abstract Reviewer, British Pharmacological Society (BPS)

2017 - 2017 Member & Reviewer, ASCPT, Reviewer scientific proposals for 2018 annual meeting for Translational & Precision Medicine (TPM) Network

2017 Chair, PAS, Pharmacology Symposium Annual Meeting, San Francisco, CA

2017 - 2017 Reviewer, ACCP, Annual Meeting Abstracts

2017 Presenter, ASCPT, Presenter for the ASCPT Mentor Award - Dr. Patricia W. Slattum

2017 - 2018 Chair, ASCPT, Special Population (SPO) Community

2017 - 2018 Member, ACCP, 2018 Annual Program Committee Meeting in Washington, DC

2017 - 2017 Co-Chair, ACCP, Education Committee

2017 Abstract Reviewer, PAS, Reviewer Pediatric Therapeutics Section

2016 Mentor, AAPS, Annual Meeting, Career Zone Mentor, Resume Reviewer, Denver, CO

2016 Mentor, AAPS, Annual Meeting Mentoring Breakfast, Denver, CO

2016 - 2017 Liaison, AAPS, CPTR Focus Groups

2017 Mentor 2017 ACCP Annual Meeting g

2016 - 2017 *Co-Chair*, "Emerging Technologies in Clinical Pharmacology" ACCP, 2017 Annual Meeting Program Committee, San Diego, CA

2016 - 2017 Co-Chair, ACCP, Compliance Subcommittee (part of the Education Committee)

2016 Poster Tour Guide, ACCP, Annual Meeting

2016 - 2017 Vice Chair-Elect, AAPS, CPTR section

2016 - 2017 Co-Chair, ASCPT, Career Development Committee

2016 - 2016 Poster Judge, PAS, Pediatric Clinical Translational Research, Pediatric Therapeutics, Pharmacology and Pharmacology topics. PAS (2016) Baltimore, MD

2016 Scientific Reviewer, ASCPT, Review of proposals submitted for 2017 Annual Meeting

2016 Member, ASCPT, Translational & Precision Medicine (TPM) Network Committee, 2017 Annual Meeting scientific proposals

2015 - 2018 Committee Member, International Society of Pharmacometrics (ISoP), Publications committee

2015 - 2018 Member, British Pharmacological Society (BPS), Subcommittee, Pediatric Clinical Pharmacology group

2015 Career Advisory Mentor, AAPS, Résumé Review/Career Advice, 2015 AAPS Career Fair, APS Annual Meeting, Orlando, FL

2015 Panelist & Mentor, AAPS, Mentoring Breakfast—2015 AAPS Annual Meeting and Exposition, Orlando, Florida

2015 - 2018 Steering Committee Member, AAPS- Rocky Mountain Discussion Group, RMDG

2015 - 2015 Interviewee, AAPS, Member Spotlight from the CPTR section. Interviewed by Mark Crawford and Linda C. Brown from AAPS for article in AAPS Newsmagazine August 2015 issue

2015- present Member, International Union of Basic and Clinical Pharmacology, (IUPHAR) Pediatric Clinical Pharmacology Section

2015 - 2015 Abstract Reviewer, ISoP, American Conference on Pharmacometrics, Annual Meeting

2015 - 2018 Member, ASCPT, Translational & Precision Medicine (TPM) Scientific Proposal Prioritization Committee

2015- present Member, BPS, Clinical Pharmacology Section, is the professional association for pharmacologists in the UK and is one of the leading pharmacological societies in the world

2015 - 2018 Member, ASCPT, Network & Community Leadership

2015 - 2017 Vice Chair, ASCPT, SPO Scientific Community

2015 - 2016 Chair, ASCPT, Education Committee

2015 - 2015 Interviewee, ASCPT, Interviewed as ASCPT Dedicated Member of the Month, Clinical Pharmacology & Therapeutics (March 2015, Volume 4, Issue 3). Spotlight of a visionary member of ASCPT which provides them with the chance to share their perspective on the field of clinical pharmacology, and the Society

2014 - 2015 Member, ASCPT, Scientific Sections Futures Task Force - Task Force is charged with addressing the future structure of Scientific Sections and Special Interest Groups (SIG) within the Society

2014 - 2017 Editor, AAPS, Pharmacometrics (PMx) Focus Group Newsletter

2014 - 2017 Steering Committee Member, AAPS, Pharmacometrics (PMx) focus group promotes, through education and scientific programming, the understanding and application of quantitative concepts of pharmacometrics in the discovery, development, regulatory approval, and market utilization of therapeutic agents. The focus group provides an interdisciplinary forum for scientists and trainees with interest in pharmacometrics to collaborate, learn, educate, and innovate, thereby facilitating increased application and greater impact of pharmacometrics in the drug development process

2014 - 2015 Past Chair, AAPS, AAPS RMDG - Group provide a local forum for face-to-face meetings to discuss technical and scientific topics that are relevant to both academic and industrial pharmaceutical scientists

2014 - 2016 Member, AAPS, Annual Meeting Program Committee (AMPC) - abstract submission changes review subcommittee

2014 - 2018 Abstract Reviewer, European Society of Clinical Microbiology and Infectious Diseases

2014 Interviewee, AAPS, interviewed by Linda C. Brown from AAPS for the article "Reap Professional Benefits at the AAPS Annual Meeting," Career Success Newsletter, October 2014

2014 Poster Judge, AAPS, AAPS RMDG Annual Meeting, Missoula, MT

2014- present Fellow, ACCP

2014 Interviewee, ASCPT, Interviewed as ASCPT Member of the Month, June 2013, Clinical Pharmacology & Therapeutics (2013); 93 6, 462-465. doi:10.1038/clpt.2013.64. <http://www.nature.com/clpt/journal/v93/n6/full/clpt201364a.html>.

2014- present Mentor, ASCPT, Mentoring Program is to match students/trainees with esteemed leaders in the field of clinical pharmacology and further the professional and personal development of the student/trainee

2014 - 2015 Reviewer, PAS, Annual Meeting and Eastern SPR Annual Meeting, Original Science (Abstracts) and Workshop (PAS/Alliance) Reviewer

2014 - 2015 Vice Chair, ASCPT, Education Committee

2014 Liaison, American Society for Clinical Pharmacology and Therapeutics, New Member Committee, Atlanta, GA

2014 - 2015 Member, ACCP, 2015 Annual Program Committee, Meeting in San Francisco, CA

2014 - 2015 Member, ACCP, Conference organizing committee for 2015 Annual meeting September 27-29 in San Francisco, CA

2014 - 2015 Member, ASCPT, Coordinating Committee on Scientific Sections (CCSS), coordinates the education and programmatic activities of ASCPT's scientific sections

2013 - 2017 Mentor, AAPS, PPDM Mentoring Program

2013 - 2015 Chair, AAPS, PPDM Annual Meeting Screeners Committee

2013 - 2016 Committee Member, ACCP, CE Review Subcommittee - review of Continuing Education (CE/CME) activities for selected articles in The Journal of Clinical Pharmacology

2013 - 2017 Advisor & Mentor, AAPS, CPTR section mentor and advisor

2013 - 2016 Committee Member, ACCP, Compliance Subcommittee is responsible for assessing compliance of annual meeting programming to assess it meets CE/CME standards

2013 - 2016 Committee Member, ACCP, Education Committee. Involved in increasing the number of educational activities ACCP provides in areas of interest relevant to the ACCP mission

2013 - 2015 Co-Vice Chair, ASCPT, Special Populations (SPO) Scientific Section is a community of members within ASCPT whose focus is on clinical pharmacology and therapeutic research and outcomes related to characteristics of human populations and sub-populations

2013 - 2014 Committee Member, ASCPT, Education Committee, identifies opportunities for educational activities with a focus on trainee/junior faculty learning tools and career development.

- 2013 - 2014 Committee Member, ASCPT, Membership Committee is charged with contributing to the successful recruitment and retention of ASCPT members
- 2013 - 2017 Abstract Reviewer, ACCP, Annual Meeting Conference
- 2013 - 2016 Committee Member, ACCP, Student Outreach Committee is critical in providing guidance regarding Students & Trainee needs and ensuring that those needs are consistently met by ACCP.
- 2012 - 2014 Founder & Chair, AAPS, AAPS Rocky Mountain Discussion Groups (RMDG) to provide a local forum for face-to-face meetings to discuss technical and scientific topics
- 2012 - 2017 Abstract Reviewer, AAPS, CPTR section
- 2012 - 2017 Abstract Reviewer, AAPS, Abstract reviewer, National Biotechnology Conference (NBC)
- 2011 - 2018 Member, International Society of Pharmacometrics (ISoP)
- 2011 - 2018 Advisor & Mentor, ACCP is committed to facilitating the success of the chosen careers of Students & Trainees in clinical practice, academia, industry or regulatory agencies by providing support and guidance through its Mentoring Program
- 2011 - 2013 Member, AAPS, The Student/Postdoc Outreach and Development (formerly Education) committee (SPOD) dedicated to assisting students in fostering interaction among students from different schools within a broad geographic area, foster professional/scientific interactions between students and academia/industry and increase student involvement in professional and AAPS activities
- 2011 - 2013 Vice Chair, American AAPS, PPDM Annual Meeting Screeners Committee
- 2010 - 2015 Abstract Reviewer, ASCPT, Special Populations (SPO) Section and Pharmacometrics and Pharmacokinetics (PPM) Section
- 2009 - 2018 Member, IATDMCT, Pharmacometrics Committee
- 2009- present Member, International Association of Therapeutic Drug Monitoring and Clinical Toxicology, (IATDMCT)
- 2009 - 2018 Member, ASCPT
- 2005- present Member, AAPS, Clinical Pharmacology and Translational Research (CPTR) Section and Pharmacokinetics, Pharmacodynamics and Drug Metabolism (PPDM) Section
- 2005- present Member, ACCP

Grant Review Committee/Study Section

- 2017- present Deutsche Forschungsgemeinschaft (German Research Foundation)
- 2017- present King Abdulaziz City for Science and Technology (KACST), Basic Research Grants Program (BRGP) or Applied Research Grants Program (ARGP)
- 2017- present NHLBI Mentored Patient-Oriented Research Review Committee
- 2015- present Thrasher Research Foundation Grants
- 2015- present Research Councils UK (RCUK)
- 2015- present ZonMw - The Netherlands Organization for Health Research and Development, Program Office Rational Pharmacotherapy
- 2014- present Reviewer for European Society of Clinical Microbiology and Infectious Diseases (ESCMID) Research Grants
- 2014- present Utah Center for Clinical and Translational Science (CCTS) Peer Grant Review Program
- 2014 - 2015 Early Career Reviewer (ECR) program at the Center for Scientific Review (CSR), National Institutes of Health
- 2014 - 2015 Technology & Space. Israeli Ministry of Science, Technology & Space, "Science, Technology, and Innovation for the Benefit of the Aging Population" grant review committee
- 2014 - 2015 PSI Foundation (Physicians' Services Incorporated Foundation), Toronto, Ontario, Canada

Symposium/Meeting Chair/Coordinator

- 2018 Symposium Co-Chair, "Precision Medicine in Pediatrics: Reducing Variability in Exposure Across Age & Developmental Status with Physiologically-based Pharmacokinetic & Population Pharmacokinetic Strategies, an ACCP/AAPS Jointly-sponsored Symposium" (ACCP) Annual Meeting, Bethesda, MD
- 2018 Symposium Co-Chair, Pre-meeting Workshop "Model-informed, Optimal Neonatal Clinical Trial Design" (ACCP) Annual Meeting, Bethesda, MD
- 2018 Symposium Co-Chair, "Utility of Physiologically-based Pharmacokinetic Modeling During Pregnancy & Lactation Drug Studies" (ACCP) Pre-meeting Workshop Annual Meeting, Bethesda, MD
- 2018 Symposium Co-Chair, Symposium 7. Title "Dosing decision support tools in special populations: Paediatrics" IATDMCT 2018, Brisbane, Australia
- 2018 Symposium Co-Chair, Symposium 9. "Contributed Papers: Anti-infective drugs" IATDMCT 2018, Brisbane, Australia

- 2018 Roundtable Co-Chair, Morning Roundtable. Title "How do we do better to deal with dosing errors in children?" IATDMCT 2018, Brisbane, Australia
- 2018 Symposium Co-Chair, "Pragmatic Approaches to Improvements in Pediatric Drug Therapy" ASCPT Annual Meeting Symposium, Orlando, FL
- 2017 Symposium Co-Chair, "Finding the Best Recipe—Perspectives on Pediatric Formulations" AAPS Annual Meeting Symposium, San Diego, CA
- 2017 Symposium Organizer and Co-Chair, "Is Bioequivalence Established in Adults Relevant for Pediatrics?" AAPS Annual Meeting Symposium, San Diego, CA
- 2017 Symposium Co-Chair, "Therapeutic Options for Obesity Treatment in Children, Adolescents & Young Adults" ACCP Annual Meeting Symposium, San Diego, CA. Sponsored by British Pharmacological Society
- 2017 Co-Chair, Special Education Symposium titled "Publish or Perish: Getting in the Game, and Getting the Most Out of Your Published Works" at ASCPT Annual Meeting, Washington, DC
- 2016 - 2016 Workshop Coordinator, 2016 Utah Clinical Pharmacology and Pharmacometrics Workshops. Offered Jointly by the University of Utah and American Association of Pharmaceutical Scientists, Rocky Mountain Discussion Group
- 2016 Symposium Chair, Applications to Clinical Pharmacology. Theme: Drawing from Pharmacometrics and Statistics Toolboxes to Exploit the Power of Large Observational Datasets. Utah Clinical Pharmacology and Pharmacometrics Workshops
- 2016 Chair Symposium Science at Sunrise Pursuing the management track in a scientific organization - learn from the experts. ASCPT Annual Meeting, San Diego, CA
- 2016 Meeting Vice-Chair for Special Population (SPO) Community. ASCPT Annual Meeting, San Diego, CA
- 2016 Chair symposium Science at Sunrise Use of Medications during Pregnancy and Breastfeeding: Maternal, Fetal, and Neonatal Impact. ASCPT Annual Meeting, San Diego, CA
- 2016 Chair and Coordinator, Trainee Luncheon at Annual Meeting of the ASCPT(ASCPT), San Diego, CA
- 2016 Session Chair, Being Mentored. ASCPT Annual Meeting, San Diego, CA
- 2016 Coordinator and Chair of Career Bootcamp. ASCPT Annual Meeting, San Diego, CA
- 2015 Chair of free communications and panel discussion (Therapeutics in Paediatric Oncology), at 15th Congress of the European Society for Developmental Perinatal and Paediatric Pharmacology 25 June, Belgrade, Serbia
- 2015 Moderator, Symposium Titled: Companion Diagnostics: The Future of Drug Development, AAPS National Biotechnology Conference (NBC), San Francisco, CA
- 2015 Chair, Neonatal Sepsis Session, Applying Regulatory Science to Neonates: Launch of the International Neonatal Consortium (INC), Co-Organized by the Critical Path Institute and the European Medicines Agency, May 18, London, UK
- 2015 Chair, Pharmacology Symposium, Session number 2790, PAS, Annual Meeting, San Diego, CA
- 2015 Meeting Vice-Chair for Special Population (SPO) business meeting providing section updates and moderator for selected presentations from SPO members, ASCPT Annual Meeting, New Orleans, LA
- 2015 Coordinator for ASCPT Trainee Luncheon at Annual Meeting of the ASCPT, New Orleans, LA. A roundtable discussion for trainees and young scientists to meet with established clinical pharmacologists to discuss potential career paths and other topics driven by trainees' questions.
- 2015 Co-Chair, Special Education Symposium titled "Effectively Presenting Your Work" ASCPT Annual Meeting, New Orleans, LA
- 2014 - 2015 Event Chairperson for 2014-15 NIH Principles of Pediatric Clinical Pharmacology lecture series being offered by the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), videocast University of Utah, SLC, UT
- 2014 Meeting Coordinator for Annual AAPS, Rocky Mountain Discussion Group Meeting, Missoula, MO
- 2013 - 2015 Event Chairperson for NIH "Introduction to the Principles and Practice of Clinical Research" course, video cast at University of Utah
- 2013 Meeting Chair - Perspectives in Translational and Clinical Research Annual Meeting, Presented by the AAPS Rocky Mountain Discussion Group. SLC, UT. Attendees 75
- 2012 - 2015 Event Chairperson for NIH "Principles of Clinical Pharmacology" course, video cast at University of Utah, SLC, UT
- 2012 - 2013 Event Chairperson for NICHD Principles of Pediatric Clinical Pharmacology course, videocast University of Utah
- 2012 - 2014 Steering Committee, AAPS RMDG organize local forums for face-to-face meetings to discuss technical and scientific topics that are relevant to both academic and industrial pharmaceutical scientists within the Rocky Mountain Region

Community Activities

- 2017 Presenter, Garfield Academy, Garfield School Career Investigations Week. Careers in Science: What is a Clinical Pharmacologist?

- 2016 Poster Judge, Roseman University of Health Sciences, 2nd Annual Roseman University Research Symposium
- 2015 - 2018 Committee Member, Critical Path Institute/European Medicines Agency., INC subcommittee, Data workgroup, evaluate lab values for both "well" growing and those critically ill premature neonates
- 2015 - 2018 Advisory Committee Member, Critical Path Institute/European Medicines Agency.
- 2015 - present Member, Critical Path Institute/European Medicines Agency. International Neonatal Consortium (INC), Clinical Pharmacology Working Group. Co-Organized by the Critical Path Institute and the European Medicines Agency
- 2014 - 2017 Volunteer, Utah Food Bank.

University/Community Activities

University Level

University of Utah

- 2017 Moderator, University of Utah Undergraduate Research Symposium, Utah Conference on Undergraduate Research, Moderator Biological Science and Medicine Oral Session 1
- 2016 Moderator, University of Utah Undergraduate Research Symposium, Utah Conference on Undergraduate Research, Moderator Biological Science and Medicine Oral Session 1
- 2016 Member, Health Promotion and Education, Committee for Selection of Travel awardees to attend AAMC Early-Career Women Faculty Professional Development Seminar

Hospital Level

- 2019- present Tracheitis Clinical Practice Guideline (CPG) Committee, Dayton Children Hospital
- 2019- present Member, Pharmacy & Therapeutics (P&T) Committee, Dayton Children Hospital
- 2019- present Clinical Research Compliance Officer, Dayton Children Hospital/Dept. Pediatrics. BSoM
- 2019- present Member, Research SOP committee, Dayton Children Hospital/Dept. Pediatrics. BSoM
- 2019- present Member, Chair Executive Committee, Dayton Children Hospital/Dept. Pediatrics. BSoM
- 2019- present Member, Foundation Grant Committee, Dayton Children Hospital/Dept. Pediatrics. BSoM

University of Utah Hospitals and Clinics

- 2016 - 2017 Member, University of Utah Hospitals and Clinics, Pilot project committee - Digitize Pilot Team. To increase support for clinical genomics within the electronic health record (EHR) ecosystem by setting structured message formats for transmitting genetic test results between laboratories and clinical providers.
- 2016 - 2017 Member, Health Sciences Center, Pharmacy Value Initiative Committee, tasked by Senior Vice President of Health Sciences, Dean Dr. Vivian Lee to draft recommendations for inpatient, outpatient, and diagnostics to improve the value of therapeutics
- 2014 - 2018 Member, Academy of Health Science Educators, The Academy serves as a home for health science educators and as a community that advocates for excellence in health science education.

College/School Level

- 2019- present Member, Clinical Science Track Committee member for Scholarship in Medicine, BSoM
- 2018 - 2019 Member, BSoM Task Force on Research

Utah School of Medicine

Utah College of Pharmacy

- 2017 - 2018 Member, College of Pharmacy Search Committee, Department of Pharmacotherapy, faculty search
- 2017 - 2018 Member, School of Medicine Admissions Committee, assessing and selecting medical students including reviewing the Standardized Video Interview (SVI) and Multiple Mini Interviews (MMI)
- 2017 - 2018 Member, College of Pharmacy Search Committee, Department of Pharmacology and Toxicology faculty search
- 2017 - 2018 Member, College of Pharmacy, Chair Search Committee, Department of Pharmaceutics and Pharmaceutical Chemistry
- 2017 - 2017 Member, College of Pharmacy, Department of Pharmacotherapy Chair Search Committee
- 2016 Presenter, Women in Medicine & Science, Lessons Learned –AAMC Early Career Women Faculty Professional Development Seminar
- 2016 Presenter, Women in Medicine & Science, Lessons Learned –AAMC Early Career Women Faculty Professional Development Seminar

- 2015 - 2016 Medical Student Interviewer, School of Medicine Admissions Committee, assessing the applicants using Multiple Mini Interviews (MMI)
- 2015 Poster Judge, School of Medicine, Medical Student Scholarly Activity Symposium, Therapy or Treatment Approach Projects
- 2016 - 2016 Member, College of Pharmacy Dean's Search Committee
- 2014 - 2015 Member, College of Pharmacy Dean's Search Committee

Department Level

- 2018- present Facilitate Research Activities for Dept. of Pediatrics – Medical Students Scholarly Activities, DCH/BSoM
- 2019- present Member, Research SOP committee, Dayton Children Hospital/Dept. Pediatrics. BSoM
- 2019- present Member, Robert C. Cohn Memorial Grant Committee, Dayton Children Hospital/Dept. Pediatrics. BSoM
- 2019- present Chair, Research Steering Committee, Dayton Children Hospital/Dept. Pediatrics. BSoM
- 2018- 2019 Member, Research Steering Committee, Dayton Children Hospital/Dept. Pediatrics. BSoM

Dept. Pediatrics, UofU

Dept. Pharmacotherapy, UofU

Dept. Pharmaceuticals and Pharmaceutical Chemistry

- 2017 Moderator, Pediatrics, Grand rounds UofU Research students
- 2014 - 2016 Moderator, Pediatrics, Grand rounds UofU 4th year Medical Students
- 2016 - 2017 Member & Interviewer, Pharmaceuticals and Pharmaceutical Chemistry, Graduate Recruiting Event, faculty presenter and interviewer of prospective graduate students
- 2016 - 2017 Member, Pharmacotherapy, Graduate Committee

Division Level

Division of Clinical Pharmacology, Dept. Pediatrics, UofU

- 2016 - 2018 Chair, Pediatric Clinical Pharmacology, Executive Committee, Utah Clinical Pharmacology Fellowship Program (UCFPF)
- 2015 - 2018 Chair, Pediatric Clinical Pharmacology, Clinical Pharmacology PhD Curriculum Committee

Additional Service at Previous Institutions

- 2016 Poster Judge, Roseman University of Health Sciences, 2nd Annual Roseman University Research Symposium
- 2010 Poster Judge, University of Cincinnati, Cincinnati Graduate School Poster Forums
- 2008 - 2008 Member, University of Otago, New Zealand, School of Pharmacy, PAGANZ- organizing committee for Dunedin conference venue

Memberships in Professional Societies

- 2017 - present Member, American Academy of Pediatrics (AAP)- Section on Clinical Pharmacology and Therapeutics
- 2016 - present Member, Association of Clinical Research Professionals (ACRP)
- 2015 - present Member, European Association for Clinical Pharmacology and Therapeutics (EACPT)
- 2013 - present Member, Member, American College of Clinical Pharmacy (ACCP)
- 2013 - present Member, European Society for Developmental Perinatal and Pediatric Pharmacology (EDSPPP)
- 2012 - present Member, Academic Pediatric Association (APA)/ Society for Pediatric Research (SPR)
- 2011 - 2018 Member, International Society of Pharmacometrics (ISoP)
- 2009 - present Member, International Association of Therapeutic Drug Monitoring and Clinical Toxicology (IATDMCT)
- 2009 - 2018 Member, American Society for Clinical Pharmacology and Therapeutics (ASCPT)
- 2005 - present Member, American College of Clinical Pharmacology (ACCP)
- 2005 - present Member, American Association of Pharmaceutical Scientists (AAPS)

Funding

Active Grants

- 08/01/16 - present Pharmacokinetics and Pharmacodynamics of Budesonide with Intratracheal Surfactant Administration in Preterm Infants <29 Weeks Gestational Age.

03/01/18 - present
 Children's Hospital Research Institute of Manitoba, Canada
 Principal Investigator: Geert 't Jong
 University of Manitoba
 Role: Co-Investigator
 PK Study of L-Citrulline In Human Infants with BPD
 NIH R34
 Principal Investigator: Candice D. Fike
 University of Utah
 Role: Pharmacometrician

Pending/Submitted/Under Review Grants

07/01/19 - pending Targeting oxidized lipid-generated microvesicle particles to enhance pancreatic cancer treatment
 Principal Investigator: Ravi Sahu
 Wright State University
 NCI R01
 Role: Pharmacometrician

05/30/19 - pending Multi-Site Study of the Health Implications of Exposure to PFAS-Contaminated Drinking Water
 Principal Investigator: Naila Khalil
 Wright State University
 CDC
 Role: Pharmacometrician

11/01/18 -pending Evaluating fentanyl PK/PD in pediatric critical care patients
 Principal Investigator: Kristin Grimsrud
 UC Davis
 NIH K01 Mentored Career Development Program
 Role: Co-Investigator

12/01/18 - pending Pharmacokinetics and pharmacodynamics of indomethacin used for PDA treatment in extremely
 preterm neonates <27 weeks gestational age
 Principal Investigator: Geert 't Jong
 Children's Hospital Foundation of Manitoba Inc
 Role: Co-Investigator

09/01/19 - pending Pharmacokinetics and Pharmacodynamics of Budesonide with Intratracheal Surfactant (Bits)
 Administration in Preterm Infants < 29 Weeks Gestational Age
 Principal Investigator: Geert 't Jong
 Winnipeg Rh Institute Foundation, Inc.
 Role: Co-Investigator

07/01/19 - pending Maternal Outcomes and Neurodevelopmental Effects of Anti-Epileptic Drugs (MONEAD) study
 Principal Investigator: Angela Birnbaum
 University of Minnesota
 NIH R01
 Role: Pharmacometrician

10/01/19 - pending Conjugate Anti-Cancer Agents to Assess Antibody-Drug Conjugate (ADC) Technology
 Principal Investigator: Young-Wook Won
 National Cancer Institute
 Role: Co-Investigator

10/01/19 - pending Secondary Analyses in Obesity, Diabetes and Digestive and Kidney Diseases: Point-Of-Care (POC)
 Testing Glucose Monitoring Device Accuracy, R21.
 Principal Investigator: Nam K. Tran
 National Institute of Diabetes and Digestive and Kidney Diseases
 Role: Co-Investigator

12/01/19 - pending Pharmacokinetic Analysis Of DETC/Cu Complexes in Mouse Xenografts, R01.
 Principal Investigator: Paul J. Shami
 National Cancer Institute
 Role: Co-Investigator

09/01/19 – pending LEAP - Prospectively determine individualized dosing requirements for Bipolar Disorder (BD)
 during pregnancy to maintain therapeutic concentrations
 Principal Investigator: Crystal Clark
 Northwestern University
 NIH R01
 Role: Pharmacometrician

09/01/19 - pending Intravenous Magnesium Sulfate to Treat Severe Acute Asthma in Children
Principal Investigator: Michael D. Johnson
National Heart Lung & Blood Institute R34
Role: Co-Investigator

09/01/19 - pending A Histamine Pharmacodynamic Biomarker to Guide Treatment in Pediatric Asthma
Children's Mercy Kansas City
NIH R01
Principal Investigator: Bridgette Jones
Children's Mercy Hospital, Kansas City, Mo
Role: Co-Investigator

Past Grants

06/01/16 – 12/30/18 Utah Trial Innovation Center. National Center for Advancing Translational Sciences Special Emphasis Panel CTSA Network - Trial Innovation Centers (TICs) (U24)
Principal Investigator: J. Michael Dean
National Center for Advancing Translational Sciences
Role: Co-Investigator
Direct Costs: \$25,0000

08/01/16 – 04/30/18 Steroids and Surfactant in Extremely Low Gestational Age Infants, Pilot Dose Escalation Trial (SASSIE). E.W. "Al" Thrasher Award
Principal Investigator: Cindy McEvoy
Oregon Health & Science University
Role: Site Principal Investigator
Direct Costs: \$32,710.00 Total Costs: \$34,999.00

02/15/16 – 12/30/17 Therapeutic Drug Monitoring of Chronic Myeloid Leukemia Patients on Tyrosine Kinase Inhibitor Therapy Using Scalp Hair Concentrations. Aspire Grant Program
Principal Investigator(S): Michael W. Deininger; Diana G. Wilkins
Pfizer, Inc.
Role: Co-Investigator

02/28/16 – 02/28/18 Developing Regulatory Recommendations on Renal Function Assessment and Strategies for Starting Dose Selection for Term /Preterm Neonates and Infants. Critical Path Grant
Principal Investigator: Jian Wang
U.S. Food and Drug Administration
Role: Co-Investigator

08/31/15 – 09/01/18 Pharmacometric Modeling and Simulation for Evaluation of Bioequivalence for Leuprolide Acetate Injection
Principal Investigator: **Catherine M. Sherwin**
Food & Drug Administration
Role: Principal Investigator
Direct Costs: \$402,685.00 Total Costs: \$600,000.00

09/10/14 – 09/01/18 Pharmacometric Modeling of Immunosuppressants For Evaluation of Bioequivalence Criteria (Extension Given Sep 2017)
Principal Investigator: **Catherine M. Sherwin**
Food & Drug Administration
Role: Principal Investigator
Direct Costs: \$626,981.00 Total Costs: \$937,500.00

01/01/17 – 05/01/18 Pharmacogenomic And Metabolic Optimization of Glucocorticoid Therapy for Asthma
Principal Investigator(s): Christopher A. Reilly; **Catherine M. Sherwin**
NIGMS R01
Direct Costs: \$1,256,633.00 Total Costs: \$1,851,449.00
Role: Co-Principal Investigator

07/01/16 – 06/30/18 Camera Pharmaceuticals
Duke Clinical Research Institute
Role: Site- Principal Investigator
Direct Costs: \$50,000

07/01/13-06/30/17 Pediatric Cancer Program - Advanced Therapeutic Approaches for Pediatric Cancer in The Pediatric Cancer Program
Principal Investigator: Richard Lemons
Primary Children's Hospital Foundation
Role: Co-Investigator

Direct Costs: \$5,000, 000

04/01/15 – 03/31/16 Personalization of Antibiotic Algorithms for Children Receiving CRRT
Principal Investigator: **Catherine M. Sherwin**
Primary Children's Hospital Foundation
Role: Principal Investigator
Direct Costs: \$50,000.00 Total Costs: \$50,000.00

10/27/15 - 09/30/16 Study of The Pharmacokinetics and Pharmacodynamics of Isopropyl Alcohol in Fighter Pilots at High Altitudes And G-Forces
Principal Investigator: **Catherine M. Sherwin**
Henry M. Jackson Foundation for The Advancement of Military Medicine
Role: Principal Investigator
Direct Costs: \$26,424.00 Total Costs: \$39,372.00

07/01/16 – 09/30/17 Benzyl Alcohol PK And Toxicity in Neonatal Lambs
Principal Investigator: **Catherine M. Sherwin**
Primary Children's Medical Center Foundation
Role: Pharmacometrician
Direct Costs: \$20,000.00 Total Costs: \$20,000.00

12/09/15–03/31/2018 Pharmacokinetics of Understudied Drugs Administered to Children Per Standard of Care. Pediatric Trial Network, Duke Clinical Research Institute. (NICHD PTN - Opportunistic [Pop01])
Principal Investigator: Michael Cohen-Wolkowicz
National Institute of Child Health and Human Development
Role: Site- Principal Investigator

09/01/16 - 08/31/17 Resizing Transdermal Patches
Principal Investigator: **Catherine M. Sherwin**
American Foundation for Pharmaceutical Education
Role: Principal Investigator
Direct Costs: \$10,000.00 Total Costs: \$10,000.00

07/01/12 - 06/30/14 Primary Children's Medical Center Foundation Early Career Development Research Grant.
Topic: Drug Therapy in Pregnancy: Simulation to Improve Safety
Principal Investigator: **Catherine M. Sherwin**
Primary Children's Medical Center Foundation
Role: Principal Investigator
Direct Costs: \$25,000.00 Total Costs: \$25,000.00

01/01/13 - 12/30/15 Development of A Center of Excellence for A Comparative Effectiveness Research Educational Program
Principal Investigator(S): Diana I. Brixner; Michael G. Spigarelli
Pharmaceutical Research and Manufacturers of America
Role: Co-Investigator

01/01/17 - 12/31/17 Boka Sciences Project
Principal Investigator: **Catherine M. Sherwin**
Boka Sciences, Inc.
Role: Principal Investigator
Direct Costs: \$9,891.00 Total Costs: \$13,501.00

03/03/08 - 01/01/11 Pharmacokinetics-Pharmacodynamics-Pharmacogenetics of Mycophenolic Acid and Their Relation to Response to Therapy of Systemic Lupus Erythematosus.
NIH Grant 5t32ar007594-15 CMTS
Principal Investigator: Dr. Alexander Vinks
National Institutes of Health
Role: Research Fellow

01/01/09 - 12/30/11 Pharmacokinetics of Prednisone and Its Relation to Response to Therapy in Childhood-Onset Systemic Lupus Erythematosus.
Principal Investigator: Dr. A. Carmella Sagcal-Gironella
Cincinnati Children's Hospital Medical Center
Role: Research Fellow

01/01/10 - 01/01/11 The Use of Pioglitazone in Treating Pediatric Patients with Sepsis
Principal Investigator: Dr. Jennifer Kaplan
Cincinnati Children's Hospital Medical Center
Role: Research Fellow

Active Contracts

01/01/19 - present
L-Citrulline Treatment for BPD Prevention.
Division of Neonatology
Principal Investigator: Candice D. Fike
Asklepios Biopharmaceutical, Inc.
Role: Pharmacometrician

Pending Contracts

09/01/19 - present
A Randomized Trial to Determine the Role of Valganciclovir For Asymptomatic Cytomegalovirus Infected Hearing-Impaired Infants, R01.
Principal Investigator: Albert H. Park
National Institute on Deafness and Other Communication Disorders
Role: Pharmacometrician

09/01/19 - present
Intravenous Magnesium for Severe Acute Asthma in Children
Principal Investigator: Michael D. Johnson
Pediatric Emergency Care Applied Research Network
Role: Pharmacometrician

12/01/19 - present
NHLBI Pediatric Heart Network Clinical Research Center, Ug1.
Principal Investigator(S): L. Luann Minich; Richard V. Williams
Pediatric Heart Network
Role: Pharmacometrician

Past Contracts

01/01/18 – 06/30/18
PK Study of L-Citrulline In Human Infants with BPD
Principal Investigator: Candice D. Fike
Primary Children's Hospital
Role: Pharmacometrician

10/01/15 – 09/30/16
Characterization of Between-Individual Variability of Histamine in Children with Asthma
Principal Investigator: Bridgette L. Jones
Children's Mercy Hospital
NIH NHLBI
Role: Pharmacometrician

03/01/16 – 12/30/16
Direct Costs: \$5,000.00 Total Costs: \$5,000.00
The Role of Immunizing Pregnant Women in Protecting Young Infants Against Influenza
Principal Investigator: Julie H. Shakib
Thrasher Research Fund
Role: Pharmacometrician

10/01/14 - 12/31/16
Phase I: A Pilot Study of The Safety and Efficacy of Oxandrolone In the Prevention and Treatment of Malnutrition in Infants After Cardiac Surgery
Principal Investigator: Richard V. Williams
New England Research Institutes
Role: Pharmacometrician

05/01/15 - 07/31/15
Pharmacodynamic Effect of Histamine in Children with Asthma
Principal Investigator: Bridgette L. Jones
Children's Mercy Hospital
NIH NHLBI
Role: Pharmacometrician

04/01/15 - 06/30/15
Direct Costs: \$5,000.00 Total Costs: \$5,000.00
PK Analysis and Modeling of Udenafil And Metabolite Data Provided by The Sponsor.
The Data Was Obtained from A Phase I/II Dose-Escalation Trial of Udenafil In Adolescents with Single Ventricle Physiology After Fontan Palliation
Principal Investigator: **Catherine M. Sherwin**
Mezzion Pharma Co
Role: Principal Investigator

01/01/13 - 06/30/14
Direct Costs: \$45,000.00 Total Costs: \$45,000.00
Characterization of The Contribution of Histamine in Children with Asthma
Principal Investigator: Bridgette L. Jones
Children's Mercy Hospital
NIH NHLBI
Role: Pharmacometrician

01/01/12 - 06/30/13 Direct Costs: \$5,000.00 Total Costs: \$5,000.00
 Histamine Pharmacodynamic Effects in Children
 Principal Investigator: Bridgette L. Jones
 Children's Mercy Hospital
 NIH NHLBI
 Role: Pharmacometrician

07/01/11 - 06/30/12 Direct Costs: \$5,000.00 Total Costs: \$5,000.00
 Characterization of The Intra-Individual Variability of Histamine Response
 Principal Investigator: Bridgette L. Jones
 Children's Mercy Hospital
 NIH NHLBI
 Role: Pharmacometrician
 Direct Costs: \$5,000.00 Total Costs: \$5,000.00

Clinical Studies/Trials – Highlighted

2017 - 2018 Pharmacokinetics of Inhaled Glucocorticoids in Pediatric Asthma Patients
 2015 - 2016 Personalization of Antibiotic Algorithms for Children Receiving CRRT
 2013 - 2015 Polypharmacy Among Hospitalized Pediatric Patients

Teaching Responsibility Assignment

Education Administration

2018 - 2018 Graduate Program Director, Ph.D. Clinical Pharmacology, Graduate Committee
 2017 - 2018 Continuing Education Course Director, Division of Pediatric Clinical Pharmacology
 2015 - 2018 Director, Utah Clinical Pharmacology Fellowship Program, Dept. Of Pediatrics, University of Utah
 Accredited by The American Board of Clinical Pharmacology (Expires 07-28-2021)
 2013 - 2018 Program Director for The Student Research Program in The Division of Clinical Pharmacology
 2011 - 2018 Co-Director Ped 7260, Mentored Program in Pediatric Research for Medical Students, Dept. of
 Pediatrics, School of Medicine
 2011 - 2015 Associate Fellowship Director, Clinical Pharmacology Fellowship Program, Dept. of Pediatrics,
 University of Utah

Course and Curriculum Development

2018 - 2018 Pediatric Self-Assessment Program (PedSAP), Review of American College of Clinical Pharmacy chapter topics
 including Medical Issues in the ICU; Advances in Pediatric/Neonatal Parenteral Nutrition. For CPE and COI
 review
 2017 - 2018 Implementation of ACCP revised Virtual Journal Club for CE and CME credit
 2017 Pediatric Self-Assessment Program (PedSAP) 2017 Book 1 (Research and Study Design in Pediatrics).
 Development of continuing pharmacy education (CPE) credit for ACCPharmacy
 2016 - 2018 Developing a series of webinars for ASCPT for Special Population community members, which are offered for
 CE and CME
 2015 - 2018 Developing a series of webinars titled "Therapeutic Dilemmas" for ACCP, which are offered for CE and CME
 2013 - 2018 Pharmacometrics Training Workshop. Division of Clinical Pharmacology/ Department of Pediatrics. For
 Graduate students, Fellows and Trainees with interest in learning Pharmacometrics
 2013 - 2018 Journal Club: Clinical Pharmacology. Division of Clinical Pharmacology/ Department of Pediatrics. For Clinical
 Pharmacology Graduate Students, Fellows and Trainees
 2013 - 2018 Course Master - development of course number PCTH 6650 /MDCRC 6470, Implementation of Clinical Trials for
 the Comparative Effectiveness Research Educational Program
 2012 - 2014 Development of Research University for Clinical Researchers - skills training for undertaking clinical studies,
 CTO, Department of Pediatrics, University of Utah
 Taught 4 times a year, for clinical coordinators and researchers, 20-30 attendees
 2012 - 2016 Master's in science - Clinical Investigation, Curriculum Development Committee, Department of Pediatrics,
 University of Utah School of Medicine
 2012 - 2015 Training for Clinical Investigators course, CTO, Department of Pediatrics, University of Utah, SLC, UT. Taught 4
 times a year, for clinical coordinators and researchers, 20-30 attendees
 2012 - 2014 Research University for Clinical Researchers - online resources, CTO, Department of Pediatrics, University of
 Utah, SLC, UT. (Innovation: creating online instructional resources for clinical coordinators)

- 2011 - 2015 Development and facilitator of Educational Development program for Clinical Research Coordinators (CTO, Clinical Pharmacology & Adolescent Medicine), Department of Pediatrics, University of Utah
- 2010 Developed an "Introduction to PK modeling using NONMEM and PDx-Pop" course CCHMC and University of Cincinnati
- 2010 Development and presentation: of series of 6 "Hands-on NONMEM Workshops" Taught as small group workshops to faculty, fellows, and students at CCHMC and the University of Cincinnati. Total number completed the workshop series = 12
- 2010 Development and facilitator of "Pharmacokinetics and Pharmacodynamics" course. A discussion group for faculty, fellows, and students at CCHMC and University of Cincinnati
- 2006 - 2007 Involved in the development of new first-year health science curriculum, writing of laboratories/manuals and self-directed learning modules for Microbiology and Immunology and Physiology. University of Otago, Dunedin, New Zealand

Courses Directed

- 2014 - 2018 MDCRC 6950 - Independent Study in Pediatric Clinical Pharmacology Research, graduate students involved in research in the Division of Clinical Pharmacology
- 2014 - 2018 PED 7700 Clinical Pharmacology in Special Populations. This course establishes a foundation for understanding the clinical significance of the pharmacological effects of drugs across various stages of life and human development
- 2014 - 2018 PED 7600 Principles and Practice of Pharmacometrics. This course provides an extensive overview of topics in population pharmacokinetics and pharmacodynamics, including nonlinear mixed-effects modeling theory and implementation, data formatting requirements, population model development, model evaluation techniques, continuous pharmacokinetic-pharmacodynamic models, Monte Carlo simulation, and best practices. Instruction combines didactic lectures with hands-on exercises using R, Monolix, SimCyp, and NONMEM
- 2013 - 2015 The Brown Bag Lunch Clinical Research Series provides an opportunity for cementing institutional collaborations and creating more of a research community across all divisions for Clinical investigators and their study teams. It allows for is an informal discussion among peers/colleagues. It is run monthly, and topics apply to PIs/Co-PIs and junior faculty (potential investigators) and clinical coordinators. The topics for discussions include Navigating uTRAC, Clinical Trial-Start Up, DSS, Regulatory, IRB, Approaching Sensitive Topics with Research Participants and Recognizing and Reporting Adverse Events and Unanticipated Problems
- 2013 - 2018 PED 7800 Journal Club – Pharmacometrics and Clinical Pharmacology. This seminar course will focus on pharmacometrics and clinical pharmacology and include discussion in the following areas: Theory and application of PG, PK, PD; Population PKPD models used to describe biological data; Regulatory issues related to experimental therapeutics and clinical pharmacology research; Pharmacology of receptors, disease progression and physiological pharmacokinetic modeling and Application of PKPD tools and approaches
- 2013 - 2018 Student Volunteer meeting for undergraduates, graduate students, and postdoctoral fellows involved in research in the Division of Clinical Pharmacology. The weekly meeting covers the writing of abstracts, design of posters, oral presentation skills and allows for feedback and critique of work and presentations. Number: 10 - 15
- 2013 - 2014 Clinical Research topics for Clinical Coordinators, Clinical Trials Office, University of Utah, bimonthly lunchtime meeting for clinical coordinators.
- 2012 - 2018 PED 7260, Mentored Program in Pediatric Research, Department of Pediatrics, School of Medicine, 8 weeks, the course runs July-May each year, 4th-year medical students interested in pediatric research experience, 6-8 trainees
- 2009 - 2010 Group organizer for the "Experimental Therapeutics and Clinical Pharmacology" seminar series. Held between College of Pharmacy, University of Cincinnati and Division of Clinical Pharmacology, CCHMC.
- 2006 - 2007 Organization of first-year microbiology and immunology for a health science course, School of Medicine, University of Otago, taught the first semester of the academic year, first-year undergraduate students, n=120.

Course Lectures

- 2015 - 2017 Instructor, PH TX 5211 (1): Pharmacology I, 61 students, Pharmacology and Toxicology
- 2015 - 2018 Instructor, MDCRC 6470: Implementation of Clinical Trials, 8 students, Ctr Clinical & Translational Sci, Comparative Effectiveness Research Educational Program
- 2015 - 2015 Course Master, MDCRC 6470 (1): Implementation of Clinical Trials, 8 students, Ctr Clinical & Translational Sci
- 2014 - 2018 Primary Instructor, MDCRC 6950 (4): Independent Study, 1 student, Ctr Clinical & Translational Sci
- 2014 - 2014 Primary Instructor, PED 7600: Principles and Practice of Pharmacometrics, 3 students, Pediatrics
- 2013 - 2018 Instructor, PED 7260: Mentored Program in Pediatric Research, 8 students, Pediatrics
- 2013 - 2018 Primary Instructor, PED 5950: Independent Study Pediatric Clinical Research Program, 1 student, Pediatrics

- 2006 - 2007 Teaching Fellow, CELS191: Cell and Molecular Biology, 120 students, An introduction to the biology of cells; fundamentals of molecular biology; organismal and molecular genetics; human genetic variation; diversity and biology of microorganisms; microbial virulence and disease processes
- 2005 - 2007 Teaching Fellow, BIOL112: Animal Biology, 80 students, An introductory survey of the evolution and diversity of animal life. Essential biological principles are illustrated using examples from New Zealand fauna, issues of environmental, social or economic importance, and innovative research developments at the University of Otago
- 2005 - 2007 Teaching Fellow, BIOL115: Biology for Health Sciences, 120 students, An introduction to selected topics in human biology. It is designed primarily for first-year Health Science students. Departmental staff provides a four-week section on the anatomy of movement. The microscopic and gross form of bone, striated muscle, and fibrous connective tissue are covered, and the mechanisms of standing, walking and running are explored
- 2004 - 2006 Teaching Fellow, HUBS191: Human Body Systems 1, 120 students, An introduction to the structure and function of the musculoskeletal, nervous, endocrine, and immune systems in the human body.
- 2004 - 2004 Teaching Fellow, PHAL 211: Introductory Pharmacology, 25 students, the basic principles of pharmacology; how drugs get to their site of action, and how they work when they get there

Laboratory Teaching

- 2004 - 2007 Senior laboratory demonstrator/leader. The University of Otago, Department of Microbiology, Immunology, Physiology, and Zoology. Guided students through various laboratory exercises, marked laboratory exams and assignments
- 2003 - 2004 Demonstrator, 200 and 300 level Toxicology Laboratory, Lincoln University, Canterbury, NZ
- 2003 - 2003 Demonstrator, 100 level Chemistry Laboratory, Lincoln University, Canterbury, NZ

Small Group Teaching

- 2014 - 2018 Maternal-Fetal Pharmacology Lecture series for Obstetrics and Gynecology Clinical Fellows. Lectures cover the clinical significance of the pharmacological effects of drugs during pregnancy and on the unborn fetus. 1-hour lecture monthly as part of Fellow Education series, number trainees 4-6
- 2013 - 2014 Clinical Research and Clinical Pharmacology, CTO, Department of Pediatrics, University of Utah, clinical coordinators
- 2012 - 2015 Developed and facilitate weekly research seminar for research volunteers in CTO/Clinical Pharmacology and Adolescent Medicine, Department of Pediatrics, University of Utah, SLC, UT
- 2012 - 2013 How to write a study protocol for Clinical Coordinators, CTO/Clinical Pharmacology and Adolescent Medicine, Department of Pediatrics, University of Utah, SLC, UT
- 2011 - 2018 Clinical Pharmacology Laboratory Research Meeting, weekly meeting to discuss research topics and plan studies in the area of clinical pharmacology for graduate students (6) and postdocs fellows (4)
- 2006 - 2007 The University of Otago, tutor for microbiology/immunology, physiology, zoology, and pre-health science, Pacific Island Centre and Maori Centre. Prepared and gave group tutorials in support of course work
- 2005 - 2005 The University of Otago, tutor for microbiology/immunology and physiology, Faculty of Medicine and Department of Microbiology and Immunology. Prepared and gave group tutorials in support of course work
- 2004 - 2004 The University of Otago, demonstrator/tutor, Department of Pharmacology and Toxicology. Guided students through various laboratory exercises. Prepared and gave group tutorials in support of course work
- 2003 - 2003 Lincoln University, Teaching assistant, 200 level and 300 level Chemistry and Toxicology

Trainee Supervision and Mentoring relationships

Faculty

- 2017 - present Project Involvement: guidance with research project design, Advisor/Mentor, *Shabnam Nazir*, Kohat University of Science and Technology
Current Career Activities: Assistant Professor, Department of Pharmacy, Kohat District, Khyber Pakhtunkhwa, Pakistan
- 2017 - 2018 Provided mentoring related to career development in Pharmacology, Advisor/Mentor, *Guohua An*, University of Iowa
Current Career Activities: Assistant Professor, Division of Pharmaceutics and Translational Therapeutics, College of Pharmacy, University of Iowa
- 2015 - 2018 Supervisor, *Alfred Balch*, University of Utah
Current Career Activities: Adjunct Associate Professor, Dept Family Medicine, University of Utah

- 2015 - 2018 The University of Utah. Postdoctoral Fellow, Division of Clinical Pharmacology, Department of Pediatrics, University of Utah. Project title: Population PK/PD on prospective pediatric trials, Supervisor, *Joseph Rower*, University of Utah
Current Career Activities: Research Assistant Professor, College of Pharmacy, University of Utah, UT
- 2015 - 2018 Provided mentoring related to career development. Postdoctoral Fellow, Division of Clinical Pharmacology, Department of Pediatrics, University of Utah, Supervisor, *Kathleen Job*, University of Utah
Current Career Activities: Visiting Lecturer at The University of Utah, Department of Pediatrics, Division of Clinical Pharmacology
- 2015 - 2018 Postdoctoral Fellow, Division of Clinical Pharmacology, Department of Pediatrics, University of Utah, UT. Project title: Population PK/PD in prospective pediatric trials. Research Analyst, Division of Clinical Pharmacology, Department of Pediatrics, University of Utah, Supervisor, *Xiaoxi Liu*, University of Utah
Current Career Activities: Research Assistant Professor, Division of Clinical Pharmacology, Department of Pediatrics, University of Utah
- 2014 - 2016 Provide mentoring related to career development in Academy of Health Science Educators, Health Sciences, University of Utah, Advisor/Mentor, *Susan Sanderson*, University of Utah
Current Career Activities: Nurse Practitioner at the University of Utah School of Medicine
- 2014 - 2016 Provide mentoring related to career development in Academy of Health Science Educators, Health Sciences, University of Utah, Advisor/Mentor, *Katarina Felsted*, University of Utah
Current Career Activities: Assistant Professor, Gerontology Interdisciplinary Program, University of Utah College of Nursing
- 2014 - 2018 Project Involvement: Assistant and guidance with learning NONMEM and PK modeling. Associate Professor of Pharmaceutical Sciences, Roseman University of Health Sciences, Supervisor, *Venkata (Kash) Yellepeddi*, Roseman University of Health Sciences
Current Career Activities: Associate Professor (Research-Track), Department of Pediatrics, School of Medicine, University of Utah
- 2014 - 2018 Project title: Pediatric Cancer and Influence of Therapeutics, Supervisor, *Elena Enioutina*, University of Utah
Current Career Activities: Research Assistant Professor, Division of Clinical Pharmacology, Department of Pediatrics, University of Utah
- 2013 - 2015 Project title: TMPT Use and Trends, Assistant Professor; Dept of Pathology, University of Utah. Project Involvement: guidance with a research project. Advisor/Mentor, *Kamisha Johnson-Davis*, University of Utah
Current Career Activities: Medical Director, Clinical Toxicology, ARUP Laboratories, SLC, UT
- 2012 - 2014 Project title: Pharmacokinetics Data for Bacteriophages in Healthy Rats, Orthopedic Surgery Operations, Veterans Administration. Project involvement assistant and guidance with learning NONMEM and PK modeling. Advisor/Mentor, *Catherine Loc-Carrillo*, University of Utah
Current Career Activities: Assistant Professor, University of Utah; Program Director for Infectious Disease Research, IDEAS Center, SLC VA
- 2012 - 2018 Postdoctoral Fellow, Division of Clinical Pharmacology, Department of Pediatrics, University of Utah, UT. Project title: Vancomycin and renal function in neonates, Supervisor, *Jonathan Constance*, University of Utah
Current Career Activities: Research Assistant Professor, Division of Clinical Pharmacology, Department of Pediatrics, University of Utah
- 2011 - 2015 Mentor and guidance with research. Project title: Benchmarking of Nonlinear Mixed Effects Modeling Programs, Department of Pediatrics, Division of Clinical Pharmacology, Supervisor, *Chris Stockmann*, University of Utah
Current Career Activities: Assistant Professor, Division of Infectious Diseases, Department of Pediatrics, University of Utah
- 2010 - 2014 Project Title: Pharmacokinetics of Micafungin in Pediatric Patients. Project Involvement: Assistant and guidance with learning NONMEM and PK modeling., Advisor/Mentor, *Joshua Courter*, Cincinnati Children's Hospital Medical Center
Current Career Activities: Pharmacy Clinical Specialist - Antimicrobial Stewardship, General Pediatrics Clinical Pharmacist at Cincinnati Children's Hospital Medical Center, Cincinnati, OH
- 2010 - 2011 Project Title: Propofol Pharmacokinetics in Obese Pediatric Patients. Project Involvement: Assistant and guidance with learning NONMEM and PK modeling. Advisor/Mentor, *Vidya Chidambaran*, Cincinnati Children's Hospital Medical Center
Current Career Activities: Associate Professor, Director of Perioperative, Division of Pediatric Anesthesia, Cincinnati Children's Hospital Medical Center, Cincinnati

- 2010 - 2011 Project Title: Benzo(a)pyrene in Lymph of Mice of Different Genotypes for P450 Genes After Intraduodenal Administration. Project Involvement: Assistant and guidance with learning NONMEM and PK modeling., Advisor/Mentor, *Lucia Jorge-Nebert*, University of Cincinnati
Current Career Activities: Research Associate, University of Cincinnati, Cincinnati, OH
- 2010 - 2011 Project Title: Optimal Design and Clinical Pharmacokinetic Applications. Project Involvement: Assistant and guidance with learning NONMEM and PK modeling. Assistant with learning WinPopt and ADAPT. Advisor/Mentor, *Lili Ding*, Cincinnati Children's Hospital Medical Center
Current Career Activities: Assistant Professor, Department of Pediatrics, University of Cincinnati, OH
- 2010 - 2011 Project Title: Population Pharmacokinetics of Risperidone Using Sparse and D-Optimal Sampling in Children and Adolescents. Project Involvement: Assistant and guidance with learning NONMEM and PK modeling., Advisor/Mentor, *Shannon Saldana*, Cincinnati Children's Hospital Medical Center
Current Career Activities: Pharmacy Clinical Specialist in Psychiatry, Primary Children's Hospital, SLC, UT

Visiting Faculty

- 2017 - 2018 Advisor/Mentor, *Leslie Escobar*, Universidad de Chile
Current Career Activities: Profesor Asistente, Facultad de Medicina, Departamento de Pediatría y Cirugía Infantil Sur
- 2014 - 2015 Project title: Population Pharmacokinetics of Vancomycin in Adolescent Patients. Project Involvement: assistant and guidance with learning NONMEM and PK modeling., Advisor/Mentor, *Shankar Lanke*, University of Findlay
Current Career Activities: Clinical Pharmacologist at Otsuka Pharmaceuticals, Princeton Junction, New Jersey
- 2014 - 2016 Project Involvement: Assistant and guidance with learning NONMEM and PK modeling. Advisor/Mentor, *Nam Tran*, University of California, Davis
Current Career Activities: Assistant Clinical Professor, Director of Clinical Chemistry and Point-of-Care Testing at UC Davis Health System

Intern

- 2017 - 2018 The internship was to gain an understanding in the conducting of clinical trials, Project: Asthma treatment of children with intravenous magnesium sulfate and return to the emergency room. Supervisor, *Anna-Lena Roper*, Hochschule Hannover Germany
Current Career Activities: Bachelor of Arts in Medizinisches Informationsmanagement, Hochschule Hannover, University of Applied Sciences and Arts, Hanover, Germany.
- 2017 - 2017 Native American Research Internship (NARI), Project Involvement: mentor and guidance with a research project. Pharmacometric Modeling and Simulation for Generic Drugs Evaluation, Supervisor, *Emily Plumage*, University of Utah
Current Career Activities: Pre-medical student, University of Utah
- 2016 - 2016 Native American Research Internship (NARI), Project Involvement: mentor and guidance with research project., Supervisor, *Thedra Rattler*, Idaho State University
Current Career Activities: Bachelor of Nutrition student, Idaho State University
- 2015 - 2015 Native American Research Internship (NARI), Project Involvement: mentor and guidance with research project., Supervisor, *Jennifer Murillo*, Idaho State University
Current Career Activities: Graduate student at The Dartmouth Institute for health policy and clinical practice

Fellows

- 2017 - 2018 Advisor/Mentor, *Stephen Greene*, University of North Carolina, UNC/Nuventra Pharmacokinetics and Pharmacodynamics Fellow
Current Career Activities: Manager, Clinical Pharmacology, SK Life Science, Inc.
- 2016 - 2017 Provided mentoring related to career development, Advisor/Mentor, *Marisa Cañadas Garre*, Universidad de Granada, Spain, Investigadora en FIBAO, Unidad de Farmacogenética. Hospital Universitario Virgen de las Nieves, Universidad de Granada, Granada, Spain
Current Career Activities: Investigador posdoctoral en Queen's University Belfast. UK
- 2016 - 2016 Provided mentoring and guidance with a research project, ORISE Fellow, FDA, Advisor/Mentor, *Edit Muhari-Stark*, US FDA, Pediatric Medicines Regulatory Consultant at PedMed Consulting. MCRN Hungary
Current Career Activities: Medical Director, BioCryst Pharmaceuticals Inc
- 2016 - 2018 Project Involvement: Assistant and guidance with learning NONMEM and PK modeling, Advisor/Mentor, *Xenia Ivanova*, University of California, Davis
Current Career Activities: Research Assistant, Clinical Chemistry and Point-of-Care Testing, Pathology and Laboratory Medicine, University of California, Davis, School of Medicine, Davis, CA

- 2015 - 2018 Ph.D. Candidate/ Research Assistant, Pharmaceutical Sciences Department, Texas Tech University Health Sciences Center, Supervisor, *Jahidur Rashid*, Texas Tech University Health Sciences Center/ Postdoctoral Fellow, Division of Clinical Pharmacology, Department of Pediatrics, University of Utah, UT.
Current Career Activities: Senior Scientist, Pharmacometrics, Clinical Pharmacology at Halozyme Therapeutics, Inc, San Diego, CA
- 2015 - 2016 Project Involvement: mentor and guidance with a research project. Research Fellow, The Hospital for Sick Children, Toronto, Ontario, Canada, Advisor/Mentor, *Alexandra Carls*, The Hospital for Sick Children
Current Career Activities: Physician, Medical Science bei AMS Advanced Medical Services, Frankfurt Am Main Area, Germany
- 2015 - 2017 Provided mentoring related to career development in Clinical Pharmacology. Postdoctoral Fellow, Division of Clinical Pharmacology, Department of Pediatrics, University of Utah, UT, USA, Supervisor, *Yuhuan Wang*, University of Utah
Current Career Activities: Scientist Quantitative Pharmacology at Regeneron Pharmaceuticals, Inc
- 2015 - Present Advisor/Mentor, *Manushree Bharadwaj*, Oklahoma State University/ Postdoctoral Fellow, NTP, NIEHS National Institute of Environmental Health Sciences (NIEHS)
Current Career Activities: Clinical Pharmacologist at FDA/CVM/ONADE
- 2015 - 2018 Provided mentoring related to career development in Clinical Pharmacology. Postdoctoral Fellow Centre d'Investigation Clinique, Paris, France, Supervisor, *Silvia Martinez-Illamola*, Unité de Recherche Clinique. Centre d'Investigation Clinique/ Postdoctoral Fellow, Division of Clinical Pharmacology, Department of Pediatrics, University of Utah, UT
Current Career Activities: Research Associate at University of Minnesota-Twin Cities
- 2015 - 2015 Provided mentoring related to career development in Clinical Pharmacology. Postdoctoral Fellow, University of Houston, TX, Advisor/Mentor, *Sumit Basu*, University of Houston
Current Career Activities: Senior Scientist, Quantitative Pharmacology & Pharmacometrics at Merck
- 2015 - 2015 Provided mentoring related to career development in Clinical Pharmacology. Postdoctoral Fellow, Department of Obstetrics and Gynecology, UTMB, TX, Advisor/Mentor, *Daria Vernikovskaya*, University of Texas Medical Branch
Current Career Activities: Bioanalytics/ADME/DMPK
- 2014 - 2014 Provided mentoring related to career development in Clinical Research., Advisor/Mentor, *Sharanya Raghunath*, Huntsman Cancer Institute
Current Career Activities: Senior Bioinformatics Scientist at Intermountain Healthcare
- 2014 - 2018 A pre-doctoral student in Pharmacotherapy Ph.D. program, Department of Pharmacotherapy, College of Pharmacy, Supervisor, *Eman Biltaji*, University of Utah
Current Career Activities: Postdoctoral Fellow, Division of Clinical Pharmacology, Department of Pediatrics, University of Utah, UT.
- 2014 - 2015 Project title: Use of Magnesium Sulfate in Pediatric Asthma Patients, Department of Pediatrics, Division of Clinical Pharmacology, Volunteer Postdoc to gain Clinical Pharmacology experience. Senior Research Technologist at St. Jude Children's Research Hospital, Greater Memphis, TN, USA, Advisor/Mentor, *Yizhe (Claudia) Chen*, University of Utah
Current Career Activities: Scientist II University of Kentucky, Lexington, KY
- 2014 - 2014 Provided mentoring related to career development in Clinical Pharmacology through the ACCP mentoring program. Postdoctoral Fellow, Department of Chemistry, Michigan State of University, Advisor/Mentor, *Jingguag Xia*, Michigan State of University
- 2014 - 2015 Provided mentoring related to career development in Clinical Pharmacology. Post-doctoral Research Scientist, Department of Pharmacology and Toxicology, University of Utah, Advisor/Mentor, *Michelle Baladi*, University of Utah
Current Career Activities: Associate Director- Clinical Development, Jazz Pharmaceuticals
- 2014 - 2014 Project title: Medications and Pregnancy, Maternal-Fetal Medicine, Department of Obstetrics and Gynecology, University of Utah. Project Involvement: mentor and guidance with a research project. Advisor/Mentor, *Manijeh (MJ) Kamyar*, University of Utah
Current Career Activities: Fellow Maternal-Fetal Medicine, Department of Obstetrics and Gynecology, University of Utah, UT.
- 2014 - 2018 Provided mentoring related to career development in Pharmacometrics. Ph.D. student at The University of NSW, St Vincent's Hospital, Sydney, NSW, Australia, Supervisor, *Shaun Kumar*, The University of NSW, Australia/ Postdoctoral Fellow, Division of Clinical Pharmacology, Department of Pediatrics, University of Utah, UT. Project title: Population PK/PD on prospective pediatric trials
Current Career Activities: Pharmacometrician at Model Answers Pty Ltd. Brisbane, Australia

- 2014 - 2015 Provided mentoring related to career development in Clinical Pharmacology. Advisor/Mentor, *Anita Lala*, University of Otago
Current Career Activities: Clinical Fellow in Neonatology, Dept. of Women's and Children's Health, University of Otago, New Zealand
- 2014 - 2015 Provided mentoring related to career development in Clinical Pharmacology., Advisor/Mentor, *Raja Vankatasubramanian*, Cincinnati Children's Hospital Medical Center
Current Career Activities: Postdoctoral Associate at Center for Pharmacometrics and Systems Pharmacology, University of Florida, Florida
- 2014 - 2015 Project title: Vancomycin Use in Pediatric and Neonatal Patients, Department of Pediatrics, Division of Clinical Pharmacology, Volunteer Postdoc to gain Clinical Pharmacology experience. Project Involvement: mentor and guidance with research project., Advisor/Mentor, *Han Han*, University of Utah
Current Career Activities: Director of Robust Data/Research Scientist at Recursion Pharmaceuticals
- 2014 - 2014 Provided mentoring related to career development in Clinical Pharmacology through AAPS Student/Postdoctoral Mentoring Program, Advisor/Mentor, *Sudharshan Hariharan*, US FDA
Current Career Activities: Clinical Pharmacology Reviewer, Office of Clinical Pharmacology, FDA
- 2013 - 2017 Provided mentoring related to career development in Clinical Pharmacology through AAPS Student Mentoring Program. Ph.D. student University of Nebraska Medical Center. Postdoctoral Associate at University of Minnesota, Minneapolis, Minnesota, USA, Advisor/Mentor, *Sai Bathena*, University of Nebraska
Current Career Activities: Senior Research Investigator, Clinical Pharmacology and Pharmacometrics, Bristol-Myers Squibb
- 2013 - 2013 Provided mentoring related to career development in Clinical Pharmacology. Postdoctoral Fellow, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA, Advisor/Mentor, *Yiyue (Cynthia) Zhang*, Rosalind Franklin University of Medicine and Science
Current Career Activities: Staff Fellow at FDA
- 2013 - 2015 Project Involvement: Assistant and guidance with learning NONMEM and PK modeling., Advisor/Mentor, *Kristin Grimsrud*, University of California, Davis/ Associate Director of Vivaria and Veterinary Care at the Mouse Biology Program, Veterinarian at UC Davis, Davis, California
Current Career Activities: Assistant Clinical Professor at Dept. of Pathology, School of Medicine, UC Davis
- 2013 - 2013 Provided mentoring related to career development in Clinical Pharmacology through AAPS Student Mentoring Program. Postdoctoral Fellow, University of Colorado Denver, Advisor/Mentor, *Rinku Baid*, University of Colorado
Current Career Activities: Scientist at MedImmune, Gaithersburg, Maryland, USA
- 2013 - 2015 Project title: Pharmacokinetics of Darbepoetin Alfa in the Treatment of Hypoxic-Ischemic Encephalopathy, Postdoctoral Fellow, Division of Clinical Pharmacology, Department of Pediatrics, University of Utah. Project Involvement: mentor and guidance with research project., Supervisor, *Jessica Roberts*, University of Utah
Current Career Activities: Research Scientist I at Metrum Research Group
- 2013 - 2016 Graduate Student Fellow UC San Francisco. Provided mentoring related to career development through ASCPT. Advisor/Mentor, *Kari Morrissey*, US FDA
Current Career Activities: Clinical Pharmacologist at Genentech
- 2013 - 2014 Provided mentoring related to career development in Clinical Pharmacology through the ACCP mentoring program. Advisor/Mentor, *Kshama Ojha*, University of Kentucky
Current Career Activities: Resident Physician University of Kentucky College of Medicine
- 2013 - 2015 Provided mentoring related to career development in Pharmacometrics through the ASCPT mentoring program. NIH T32 Clinical Pharmacology Fellow, Mayo Clinic, Rochester, Minnesota, Advisor/Mentor, *Balmiki Ray*, Mayo Clinic
Current Career Activities: Principal Pharmacogenomics Scientist at Assurex Health (Subsidiary of Myriad Genetics)
- 2013 - 2013 Provided mentoring related to career development in Clinical Pharmacology through the AAPS Student Mentoring Program. Advisor/Mentor, *Shraddha Sadekar*, University of Utah
Current Career Activities: Scientist at Genentech
- 2012 - 2017 Postdoctoral Fellow, Division of Clinical Pharmacology, Department of Pediatrics, University of Utah, UT. Project title: Population PK/PD in prospective pediatric trials. Research Associate, Division of Clinical Pharmacology, Department of Pediatrics, University of Utah, UT, USA, Supervisor, *Tian Yu*, University of Utah
Current Career Activities: Senior Scientist, Pharmacometrics at Nektar Therapeutics, San Francisco

- 2012 - 2013 Provided mentoring related to career development in Clinical Pharmacology. Post-doctoral fellow (PK/PD and PBPK), James Winkle College of Pharmacy, University of Cincinnati, OH, Advisor/Mentor, *Bilal Abuasal*, University of Cincinnati
Current Career Activities: Senior Clinical Pharmacologist at FDA, Silver Spring, MD
- 2012 - 2014 Project title: Decision-Tree Analysis for Vancomycin Treatment in Neonates, Department of Pediatrics, Division of Clinical Pharmacology. Project Involvement: mentor and guidance with research project., Supervisor, *Salman Yakub*, University of Utah
Current Career Activities: Health Program Manager at the Utah Department of Health
- 2011 - 2015 Postdoctoral Fellow, Division of Clinical Pharmacology, Department of Pediatrics, University of Utah, UT. Project title: Pharmacogenomics and Pregnant Women, Supervisor, *Sarah Campbell*, University of Utah
Current Career Activities: Senior Toxicologist at Nelson Laboratories, LLC
- 2010 - 2014 Project title: Histamine Pharmacokinetics and Pharmacodynamics in Children. Project involvement: training in optimal design and study design; assistance and guidance with learning NONMEM and PK modeling., Advisor/Mentor, *Bridgette Jones*, Children's Mercy Hospital and Clinics
Current Career Activities: Associate Professor of Pediatrics. Divisions of Pediatric Pharmacology & Medical Toxicology and Allergy/Asthma/Immunology, The Children's Mercy Hospital. Kansas City
- 2010 - 2013 Project title: Propofol Pharmacokinetics - Maternal-Fetal Model in Sheep. Project Involvement: Assistant and guidance with learning NONMEM and PK modeling., Advisor/Mentor, *Pornswan Ngamprasertwong*, Cincinnati Children's Hospital Medical Center
Current Career Activities: Assistant Professor, Division of Pediatric Anesthesia, Cincinnati Children's Hospital Medical Center, Cincinnati, OH
- 2010 - 2011 Project Title: Levetiracetam Study in Neonates. Project Involvement: Assistant and guidance with learning NONMEM and PK modeling. Advisor/Mentor, *Stephanie Merhar*, Cincinnati Children's Hospital Medical Center
Current Career Activities: Assistant Professor, Perinatal Institute, Division of Neonatology, Cincinnati Children's Hospital Medical Center, Cincinnati
- 2009 - 2010 Project Title: Pharmacokinetics of Prednisone and its Relation to Response to Therapy in Childhood-Onset Systemic Lupus Erythematosus (Capstone Project for Masters in Pharmaceutical Sciences) Project Involvement: Assistant and guidance with learning WinNonLin and PK modeling., Advisor/Mentor, *A. Carmella Sagcal-Gironella*, Cincinnati Children's Hospital Medical Center
Current Career Activities: Pediatric Rheumatologist, Children's Hospital Kings Daughters, Norfolk, VA
- 2009 - 2009 Project Title: Organ-Specific Roles of CYP1A1 During Detoxication of Oral Benzo[a]pyrene. Project Involvement: Assistant and guidance with learning WinNonLin and PK modeling., Advisor/Mentor, *Marina Galvez*, University of Cincinnati
Current Career Activities: Assistant Professor. School of Pharmacy, Morgantown, West Virginia

Residents

- 2016 - 2018 Project Involvement: mentor and guidance with a research project. PGY2 Internal Medicine Resident. University of Utah Hospitals and Clinics, Advisor/Mentor, *Hoa Huyuh*, University of Utah
Current Career Activities: Pharmacist, University of Utah Hospitals and Clinics
- 2016 - 2016 Project Involvement: mentor and guidance with a research project. Advisor/Mentor, *Caroline Heyrend*, Primary Children's Hospital/ Pharmacy Resident Primary Children's Hospital
Current Career Activities: MTM at VRx Pharmacy Services
- 2014 - 2014 Provided mentoring related to career development in Clinical Pharmacology through the ACCP mentoring program, Advisor/Mentor, *Alisha Gupta*, John Hopkins School of Medicine
Current Career Activities: Research Associate The Johns Hopkins University School of Medicine
- 2014 - 2014 Provided mentoring related to career development in Pharmacometrics through the ASCPT mentoring program. Pharmacy Resident, Children's Mercy Hospital, Kansas City, Advisor/Mentor, *Jacob Brown*, Children's Mercy Hospital and Clinics
Current Career Activities: Assistant Professor at the University of Minnesota College of Pharmacy, Duluth, Minnesota
- 2012 - 2014 Project Involvement: mentor and guidance with a research project. Project title: Medications and Pregnancy, Maternal-Fetal Medicine Resident, Department of Obstetrics and Gynecology, Advisor/Mentor, *Jeunesse Fredrickson*, University of Utah
Current Career Activities: Maternal-Fetal Medicine Resident, Department of Obstetrics and Gynecology, University of Utah School of Medicine, SLC, UT, USA
- 2010 - 2011 PharmD Project Title: Pharmacokinetics of Sirolimus in Pediatric Patients. Clinical Pharmacist Resident, Project Involvement: Assistant and guidance with learning NONMEM and PK modeling., Advisor/Mentor, *Jeff Scott*, Cincinnati Children's Hospital Medical Center

Current Career Activities: Clinical Pharmacist, Pharmaceutical Department, St. Jude Children's Research Hospital, Memphis, TN

Doctorate

- 2017 - 2018 Provided mentoring related to career development in Clinical Pharmacology through the AAPS Student Mentoring Program, Advisor/Mentor, *Andrew Ojo*, University of Toronto, Canada
Current Career Activities: Ph. D Candidate (Pharmaceutical Sciences) University of Toronto, Toronto, ON, Canada
- 2017 - present Supervisor, *Anindit (Andy) Chhibber*, University of Utah
Current Career Activities: Ph. D Candidate (Pharmacotherapy) University of Utah
- 2016 - 2017 Mentor and guidance with research projects, Advisor/Mentor, *Amaeze Ogochukwu*, University of Lagos, Nigeria
Current Career Activities: Ph. D Candidate, University of Lagos, Nigeria
- 2016 - 2017 Provided mentoring related to career development. Ph. D Candidate, Pharmaceutical Sciences, University of Michigan, Advisor/Mentor, *Morgan Giles*, University of Michigan
Current Career Activities: Senior Scientist at Merck, New York
- 2016 - 2017 Provided mentoring related to career development. Ph.D. student, School of Pharmacy, University of Pittsburgh, Advisor/Mentor, *Madhav Sachar*, University of Pittsburgh/ Postdoctoral Research Fellow, University of Washington
Current Career Activities: Preclinical/DMPK at LSK BioPartners, Inc.
- 2016 - 2017 Provided mentoring related to career development, Advisor/Mentor, *Md Zahir Uddin*, University of the Pacific/ Ph.D. Candidate in Pharmaceutics at University of the Pacific
Current Career Activities: Research Scientist 1 at Charles River Laboratory Sciences
- 2016 - present Project Involvement: Assistant and guidance with learning NONMEM and PK modeling., Advisor/Mentor, *Cornelis Smit*, Leiden University, The Netherlands
Current Career Activities: Ph.D. Student, Leiden University (Leiden Academic Centre for Drug Research)/ Department Pharmacology, Leiden University, The Netherlands/ Hospital Pharmacist /Ph.D. candidate at St. Antonius Ziekenhuis
- 2015 - 2018 Assistant and guidance with learning NONMEM and PK modeling. Ph.D./Doctorate, Department Pharmacology, and Toxicology, Advisor/Mentor, *A Cameron Hill*, University of Utah
Current Career Activities: Pharmacist, SLC, Utah
- 2015 - 2016 Provided mentoring related to career development in Pharmacology through the ASCPT mentoring program, Advisor/Mentor, *Mwloed Ghareeb*, University of Rhode Island
Current Career Activities: Doctor of Philosophy candidate at the University of Rhode Island, Kingston, Rhode Island
- 2015 - 2015 Provided mentoring related to career development. Ph.D. Student, Department of Pharmacology and Toxicology, College of Pharmacy, University of Utah, Advisor/Mentor, *Chandni Sheth*, University of Utah/ Postdoctoral Clinical Research Fellow at Diagnostic Neuroimaging Lab-University of Utah
Current Career Activities: Research Assistant Professor, University of Utah School of Medicine
- 2015 - 2016 Provided mentoring related to career development in Clinical Pharmacology, Advisor/Mentor, *Bryan Simpson*, University of Otago
Current Career Activities: Ph.D. student, Dept. of Women's and Children's Health, University of Otago, NZ
- 2014 - 2015 Independent Study (P4 project), Project title: Pregnancy Risk Line, College of Pharmacy. Project involvement: mentor and guidance with a research project. PharmD student, College of Pharmacy, University of Utah, SLC, UT, USA, Advisor/Mentor, *Alenoush Aramian*, University of Utah
Current Career Activities: Clinical Pharmacist at the University of Southern California
- 2014 - 2015 Independent Study PharmD student (P4 project), Project title: Pregnancy Risk Line, College of Pharmacy. Project involvement: mentor and guidance with a research project. Advisor/Mentor, *Tyler Kast*, University of Utah
Current Career Activities: Community Pharmacist, SLC, UT.
- 2014 - 2015 Provided mentoring related to career development in Clinical Pharmacology through the AAPS Student Mentoring Program. Ph.D. student in Department of Pharmaceutics, Virginia Commonwealth University, Richmond, VA, Advisor/Mentor, *Anand Joshi*, Virginia Commonwealth University/ Postdoc Research Fellow University of Pittsburgh
Current Career Activities: Sr. Scientist I at Pharmacyclics, an AbbVie Company
- 2014 - 2016 Provided mentoring related to career development in Clinical Pharmacology through AAPS Student Mentoring Program, Postdoc (CNS PK/PD) at Leiden University, The Hague, The Netherlands, Advisor/Mentor, *Eric (Yin Cheong) Wong*, Leiden University, The Netherlands

- Current Career Activities:* Senior Scientist at UCB (Quantitative Clinical Pharmacology/Modelling & Simulation) Slough, United Kingdom
- 2014 - 2016 Provided mentoring related to career development in Clinical Pharmacology. A pre-doctoral student in Department of Pharmacology Ph.D. program, University of Missouri-Kansas City, MO. Formulation Research Scientist at Bayer HealthCare, Advisor/Mentor, *Vivek Agrahari*, University of Missouri-Kansas City
Current Career Activities: Scientist, Pharmaceutical Development at CONRAD/Eastern Virginia Medical School
- 2014 - 2015 Provided mentoring related to career development in Clinical Pharmacology through AAPS Student Mentoring Program. Ph.D. student University of Missouri Kansas City, Graduate Research Assistant at UMKC, Kansas City, Missouri, Advisor/Mentor, *Xiaoyan Yang*, University of Missouri
Current Career Activities: Senior Clinical Pharmacokineticist at Covance
- 2014 - 2015 Provided mentoring related to career development in Pharmacometrics through the ASCPT mentoring program. Postdoc Center for Pharmacometrics & Systems Pharmacology Department of Pharmaceutics University of Florida, Advisor/Mentor, *Amit Somani*, University of Florida
Current Career Activities: Reviewer at FDA, Richmond, Virginia
- 2014 - 2015 Project title: Pharmacokinetics of Anti-infectives in Pediatric Dialysis Patients. Project Involvement: mentor and guidance with a research project. Ph.D. Student, Department of Pharmaceutical Sciences, College of Pharmacy, University of Utah, SLC, Advisor/Mentor, *Meghana Pandit*, University of Utah
Current Career Activities: Postdoctoral Associate at Duke University, Center for Human Disease Modeling
- 2014 - 2014 Provided mentoring related to career development in Clinical Pharmacology through AAPS Student Mentoring Program. Ph.D. Candidate at The Hospital for Sick Children, Toronto, Advisor/Mentor, *Shirley Poon*, University of Toronto, Canada
Current Career Activities: MD Candidate at The University of Toronto, Toronto, Canada
- 2014 - 2017 Mentor and guidance with research projects, Pre-doctoral student in Pharmacometrics Ph.D. program, Advisor/Mentor, *Devin Pastoor*, University of Maryland
Current Career Activities: Senior Director of Engineering Services at Metrum Research Group LLC
- 2014 - 2016 Provided mentoring related to career development in Clinical Pharmacology through the AAPS mentoring program, Ph.D. student College of Pharmacy, University of Tennessee Health Science, TN, Advisor/Mentor, *Chetan Rathi*, The University of Tennessee Health Science
Current Career Activities: Clinical Pharmacologist at GSK
- 2014 - 2014 Provided mentoring related to career development in Clinical Pharmacology through AAPS Student Mentoring Program, Ph.D. student College of Pharmacy, University of Florida, Advisor/Mentor, *Johannes Kast*, University of Florida
Current Career Activities: Scientist - Clinical Pharmacology, Modeling and Simulation, Amgen, San Francisco
- 2014 - 2018 ASCPT Mentoring Program, mentor 1-2 mentees per year, Advisor/Mentor
- 2014 - 2014 Provided mentoring related to career development in Clinical Pharmacology through AAPS Student Mentoring Program, Ph.D. student Virginia Commonwealth University, Advisor/Mentor, *Mengyao Li*, Virginia Commonwealth University
Current Career Activities: Manager, PKDM at Sanofi
- 2014 - 2016 Provided mentoring related to career development in Clinical Pharmacology, Advisor/Mentor, *Alexander Ross*, University of Cincinnati
Current Career Activities: Ph.D. student, Department of Pharmacology and Biomedical Science, University of Cincinnati, OH
- 2014 - 2015 Project Title: Predicting Glomerular Filtration Rate Using Clearance of Gentamicin in Neonates. Project Involvement: Assistant and guidance with PK modeling of aminoglycosides. Advisor/Mentor, *Esther Janssen*, Leiden University, The Netherlands
Current Career Activities: QA Officer at Interchemie, The Netherlands
- 2014 - 2014 Project title: NONMEM and PK Modeling, Department of Pediatrics, Division of Clinical Pharmacology, Volunteer Postdoc to gain Clinical Pharmacology experience. Project Involvement: mentor and guidance with research project., Advisor/Mentor, *Li Tian*, University of Utah/ Postdoctoral Fellow, MD Anderson Cancer Center, TX
Current Career Activities: Staff Fellow, FDA/Pharmaceutical scientist in biorelevant dissolution and IVIVC, nanotechnology, and drug delivery
- 2013 - 2015 Provided mentoring related to career development in Clinical Pharmacology through AAPS Student Mentoring Program. Ph.D. student at Chapel Hill, UNC Eshelman School of Pharmacy
Postdoctoral Fellow at The Children's Hospital of Philadelphia Research Institute, Advisor/Mentor, *Nicole Zane*, University of North Carolina

- Current Career Activities:* Research Scientist at the Children's Hospital of Philadelphia, Philadelphia, Pennsylvania
- 2013 - 2013 Provided mentoring related to career development in Clinical Pharmacology through the ACCP mentoring program. Ph.D. student at Virginia Commonwealth University. ORISE fellow at FDA, Advisor/Mentor, *Meng Wang*, Virginia Commonwealth University
Current Career Activities: Bioequivalence Reviewer at FDA
- 2013 - 2017 AAPS PPDM mentoring program, mentor 2-3 mentees per year, Advisor/Mentor
- 2013 - 2017 AAPS CPTR mentoring program, mentor 2-3 mentees per year, Advisor/Mentor
- 2013 - 2013 Provided mentoring related to career development in Clinical Pharmacology through the ACCP mentoring program. Ph.D. Student at University of Pittsburgh, Advisor/Mentor, *Lauren Cirrincione*, University of Pittsburgh/ Pharmacy Practice Fellow at UNMC, Omaha
Current Career Activities: Postdoctoral Research Associate at the University of Nebraska Medical Center
- 2013 - 2017 Project title: Pharmacokinetics of Chemotherapeutic Agents in Elderly Patients, Department of Pediatrics, Division of Clinical Pharmacology, Volunteer Postdoc to gain Clinical Pharmacology experience. Project Involvement: mentor and guidance with a research project. Research Fellow, Albert Einstein College of Medicine, New York, USA, Advisor/Mentor, *Imit Kaur*, University of Utah
Current Career Activities: Scientific Advisor at Quinn Emanuel, New York
- 2013 - 2018 Provided mentoring related to career development in Clinical Pharmacology through AAPS Student Mentoring Program, Ph.D. student College of Pharmacy, University of Arizona. ONYX/Amgen, Pharmaceutical Formulation Development, San Francisco, CA, USA, Advisor/Mentor, *Bo Lian*, University of Arizona
Current Career Activities: Senior Manager at Gilead Sciences
- 2013 - 2017 Insulin pharmacokinetics and pharmacodynamics (PKPD) in paediatrics and neonates. Ph.D. Student, Dept. of Women's and Children's Health, Advisor/Mentor, *Emma Salis*, University of Otago/ Professional Practice Fellow, School of Pharmacy, University of Otago, NZ.
Current Career Activities: Clinical editor (NZULM) at New Zealand Formulary
- 2013 - 2015 Project title: Predicting Glomerular Filtration Rate Using Clearance of Amikacin in Neonates – Model Evaluation. Project Involvement: Assistant and guidance with learning NONMEM and PK modeling, Advisor/Mentor, *Anne Van Rongen*, Leiden University, The Netherlands.
Current Career Activities: Ph.D. Student, Leiden University (Leiden Academic Centre for Drug Research)/ Department Pharmacology, Leiden University, The Netherlands
- 2013 - 2015 Project title: Predicting Pharmacokinetics in Obese Patients. Project Involvement: Assistant and guidance with learning NONMEM and PK modeling, Advisor/Mentor, *Margreke Brill*, Leiden University
Current Career Activities: Post-doc at Department of Pharmaceutical Biosciences - Uppsala University
- 2013 - 2015 Provided mentoring related to career development in Pharmacometrics. Lecturer at University of Otago, New Zealand, Advisor/Mentor, Hesham Al-Sallami, University of Otago, NZ
Current Career Activities: Senior Lecturer at the University of Otago
- 2013 - 2014 Provided mentoring related to career development in Pharmacometrics. Ph.D. fellowship Faculty of Pharmaceutical Sciences, University of Copenhagen. Postdoc at University of Copenhagen, Copenhagen, Denmark, Advisor/Mentor, *Eve Sverrisdottir*, University of Denmark
Current Career Activities: Assistant Professor at Københavns Universitet, Denmark
- 2013 - 2013 Project Involvement: Assistant and guidance with PK modeling. Advisor/Mentor, *Tatjana Bevans*, the University of Utah/ Pre-doctoral student in Department of Pharmacology and Toxicology Ph.D. program, College of Pharmacy, University of Utah
Current Career Activities: Certified Registered Nurse Anesthetist specialist
- 2013 - 2013 Provided mentoring related to career development in Clinical Pharmacology through the ACCP mentoring program. Ph.D. student at SUNY Upstate Medical University. Clinical Research Analyst/Postdoctoral Research Fellow at Columbia University Medical Center, New York, New York, Advisor/Mentor, *Tatyana Fedotova*, SUNY Upstate Medical University/ Clinical Research Scientist, Columbia University
Current Career Activities: Project Manager | Clinical Scientist | Board of Directors, Marketing & Digital Strategy
- 2012 - 2015 Project title: Population PK modeling for Vancomycin in Neonates, Department of Pharmacokinetics & Biopharmaceutics, ORISE Fellow, FDA, Supervisor, *Jiraganya (JJ) Bhongsatiern*, University of Cincinnati.
Current Career Activities: Clinical Pharmacology Fellow/ Postdoctoral Scholar at the University of Chicago Medicine
- 2012 - 2017 Project Involvement: Assistant and guidance with learning NONMEM and PK modeling. Mentorship and guidance with a research project, Department of Pharmacokinetics & Biopharmaceutics. Pre-doctoral

- student, James Winkle College of Pharmacy, University of Cincinnati, OH, USA, Supervisor, *Hari Krishna Ananthula*, University of Cincinnati.
Current Career Activities: Senior Scientist at Merck Upper Gwynedd, PA
- 2012 - 2012 Provided mentoring related to career development in Clinical Pharmacology through the ACCP mentoring program, Advisor/Mentor, *Andrew Bird*, Virginia Commonwealth University
- 2012 - 2018 Project title: Transdermal Patches and Pediatric Formulation, Department of Pediatrics, Division of Clinical Pharmacology. Ph.D. Student, Department of Pharmaceutical Sciences, College of Pharmacy and Division of Clinical Pharmacology, Department of Pediatrics, University of Utah, Supervisor, *Matthew Linakis*, University of Utah
Current Career Activities: Research Toxicologist at the United States Air Force
- 2012 - 2014 Project title: PG - Determining Factors that Influence Testing, Department of Pediatrics, Division of Clinical Pharmacology. Project Involvement: mentor and guidance with research project., Advisor/Mentor, *Angela Green*, University of Utah
Current Career Activities: Pharmacy resident the University of Wisconsin Hospital and Clinics, Wisconsin
- 2012 - 2013 Project title: Single Oral Paraquat Dose Study in Mice, Skaggs School of Pharmacy, Department of Biomedical, and Pharmaceutical Sciences. Project Involvement: assistant and guidance with learning NONMEM and PK modeling. Assistant with learning WinPopt and ADAPT, Advisor/Mentor, *Sarah Lacher*, University of Montana
Current Career Activities: Assistant Professor at University of Minnesota Medical School
- 2012 - 2015 Mentor and guidance with research. Project title: Population Pharmacokinetics of Acetaminophen in Neonates. Postdoctoral Associate position at the University at Buffalo, The State University of New York, Supervisor, *Sarah Cook*, University of Utah
Current Career Activities: Associate Director, Pharmacometrics and Translational PK-PD at Enhanced Pharmacodynamics, LLC (ePD) Buffalo/Niagara, New York
- 2012 - 2014 Mentor and guidance with a research project for the University of Utah Med into Grad Program, Department of Pharmacology and Toxicology, Advisor/Mentor, *Paula Brook*, University of Utah
Current Career Activities: Director of Scientific and Regulatory Affairs, 4Life Research, SLC, UT
- 2012 - 2012 Provided mentoring related to career development in Clinical Pharmacology through the ACCP mentoring program., Advisor/Mentor, *Sam Beckstead*, Midwestern University
Current Career Activities: Resident-Intern at Riverside Regional Medical Ctr
- 2012 - 2015 Project Involvement: Assistant and guidance with learning NONMEM and PK modeling, Department of Pharmacokinetics & Biopharmaceutics, Advisor/Mentor, *Ganesh Moorthy*, University of Cincinnati
Current Career Activities: Quantitative Clinical Pharmacology Scientist, AstraZeneca, Boston
- 2011 - present ACCP mentor for students of clinical pharmacology in developing countries, mentor 1-2 mentees per year, Advisor/Mentor
- 2011 - 2018 Mentor and guidance with research projects. A pre-doctoral student in Pharmacotherapy Ph.D. program, Department of Pharmacotherapy, College of Pharmacy, Supervisor, *Casey Tak*, University of Utah
Current Career Activities: Assistant Professor, University North Carolina
- 2011 - 2011 Provided mentoring related to career development in Clinical Pharmacology through the ACCP mentoring program, Advisor/Mentor, *Satya Goda*, Texas Tech University Health Sciences Center School of Pharmacy
Current Career Activities: Research Assistant, Texas Tech University Health Sciences Center School of Pharmacy, Amarillo, Texas, USA
- 2010 - 2011 Mentor and guidance with learning NONMEM and PK modeling. Project title: Drug Interactions Between Darunavir/Ritonavir Given in Combination with Rosuvastatin in HIV-1 Seronegative Patients, Department of Pharmacokinetics & Biopharmaceutics. Advisor/Mentor, *Divya Samineni*, University of Cincinnati
Current Career Activities: Clinical Pharmacologist, Antibody Drug Conjugates, Genentech
- 2009 - 2013 Project Title: Predicting Glomerular Filtration Rate Using Clearance of Amikacin in Neonates – Model Evaluation. Project Involvement: Assistant and guidance with PK modeling of aminoglycosides. Advisor/Mentor, *Roosmarijn De Cock*, Leiden University, The Netherlands
Current Career Activities: Early development and Market Access Manager at Bayer, Brussels, Belgium
- 2009 - 2009 Project Title: Acetaminophen Pharmacokinetic-Pharmacodynamics in Febrile Children, Department of Pharmacokinetics & Biopharmaceutics. Project Involvement: Assistant and guidance with learning NONMEM and PK modeling., Advisor/Mentor, *Ganesh Mugundu*, University of Cincinnati
Current Career Activities: Director, Quantitative Clinical Pharmacology, Oncology, AstraZeneca
- 2009 - 2009 PharmD Research performed at Division of Clinical Pharmacology, CCHMC. Project Title: A Non-Intervention Study to Develop a Pharmacokinetic-Pharmacodynamic Model for Individualized Propofol Dosing. Project Involvement: Assistant and guidance with learning NONMEM and PK modeling., Advisor/Mentor, *Jeroen Diepstraten*, St. Antonius Ziekenhuis, The Netherlands

Current Career Activities: Hospital pharmacist, Ph.D., PharmD, Reinier de Graaf Hospital Delft, The Hague, The Netherlands

MD, PhD

2017 - 2018 Projects: Clinical Management of Antipsychotics During Pregnancy, Advisor/Mentor, *Antonina Callahan*, University of Utah
Current Career Activities: Resident Physician at Jackson Park Hospital

Masters

2017 - 2018 Advisor/Mentor, *Ruchi Thakkar*, Master of Science in Pharmaceutics and Drug Delivery, University of Mississippi, University, MS
Current Career Activities: Doctoral Student (Pharmaceutics and Drug delivery) University of Mississippi, University, MS

2016 - 2017 Provided mentoring related to career development, Advisor/Mentor, *Matthew Hui*, The Chinese University of Hong Kong
Current Career Activities: MPhil Student, Pharmacy

2016 - 2016 Project Involvement: mentor and guidance with a research project, Advisor/Mentor, *Rachel Eason*, University of Utah
Current Career Activities: Master of Science Laboratory Medicine & Biomedical Science

2015 - 2015 PPHC Medical Student Research Program, Supervisor, *Sarah Abdelaziz*, University of Utah
Current Career Activities: Biostatistician II at Huntsman Cancer Institute

2009 - 2010 Research performed at Division of Clinical Pharmacology, CCHMC. Project Title: Population Pharmacokinetic and Pharmacogenetic Analysis of 6-Mercaptopurine in Pediatric Patients with Acute Lymphoblastic Leukemia. Project Involvement: Assistant and guidance with learning NONMEM and PK modeling., Advisor/Mentor, *Ebian Brill*, University of Groningen, The Netherlands
Current Career Activities: Apotheker at Apothekersgroep Groningen, The Netherlands

2009 - 2009 MPharm Student, Research performed at Division of Clinical Pharmacology, CCHMC. Project Title: CYP2D6 Pharmacogenetics in Risperidone Treated Children and Adolescents with Psychiatric and Neurodevelopmental Disorders. Project Involvement: Assistant and guidance with learning NONMEM and PK modeling. Hospital Pharmacist Trainee, Zaans Medisch Centrum, Advisor/Mentor, *Marianne Kuijvenhoven*, University of Groningen, The Netherlands
Current Career Activities: Hospital Pharmacist at VU university medical center, The Netherlands

2006 - 2006 MPharm Student, Research performed at Dept. Of Women's and Children's Health, University of Otago, Dunedin, New Zealand. Project Title: Amikacin Population Pharmacokinetics in Neonates., Supervisor, *Sofia Svahn*, University of Uppsala, Uppsala, Sweden
Current Career Activities: Lecturer, Department of Pharmacology and Clinical Neuroscience, Umea University, Umea, Sweden

2006 - 2006 MPharm Student, Research performed at School of Pharmacy, University of Otago, Dunedin, New Zealand. Project Title: Validation of an HPLC assay for gentamicin., Supervisor, *Paul Selby*, University of Bath, Bath, England
Current Career Activities: Manager, Boots Pharmacy, United Kingdom

Medical Student

2017 - 2018 Project Involvement: mentor and guidance with a research project. Trends in the Use of Neurolytic Injections in Children and Young Adults with Spasticity., Supervisor, *Darian Murray*, University of Utah
Current Career Activities: Pre-med student, University of Utah

2016 - 2017 Project Involvement: mentor and guidance with a research project. Immunosuppressant Use Trends in Pediatric Transplant Patients., Supervisor, *Cody Sanders*, University of Utah
Current Career Activities: Medical student, School of Medicine, University of Utah

2016 - 2016 Project Involvement: mentor and guidance with a research project. Pharmacokinetics of Drugs in Pediatric Patients Receiving Renal Dialysis, Supervisor, *Russell Ollerton*, University of Utah
Current Career Activities: Medical student, School of Medicine, University of Utah

2016 - 2016 Project Involvement: mentor and guidance with a research project. Supervisor, *Dallin Hubbard*, University of Utah
Current Career Activities: Ph.D. candidate Bioengineering at the University of Utah

2015 - 2016 The pediatric mentored research program in Dept. Pediatrics, Supervisor, *Stephanie Woodward*, University of Utah
Current Career Activities: Medical student, School of Medicine, University of Utah

2015 - 2015 Project Involvement: mentor and guidance with research project., Supervisor, *Taylor Ford*, University of Utah

Current Career Activities: Medical student, School of Medicine, University of Utah
 2015 - 2015 Project Involvement: mentor and guidance with a research project. Supervisor, *Benz Pimsakul*, University of Utah
Current Career Activities: Medical student, University of Utah
 2015 - 2015 Provided mentoring and guidance with a research project, Advisor/Mentor, *Jennifer Nhan*, University of Utah
Current Career Activities: Medical student, School of Medicine, University of Utah
 2014 - 2015 Provided mentoring and guidance with a research project, Advisor/Mentor, *Reetu Malhotra*, University of Utah
Current Career Activities: Pediatric Residency Program
 2014 - 2015 Provided mentoring and guidance with a research project, Advisor/Mentor, *Stephen Lee*, University of Utah
Current Career Activities: Pediatric Residency Program
 2014 - 2015 Project title: Tacrolimus Use in Pediatrics Transplant Patients, Department of Pediatrics, Division of Clinical Pharmacology. Project Involvement: mentor and guidance with a research project. Supervisor, *Jamie Prevedel*, University of Utah
Current Career Activities: Pediatric Residency Program
 2014 - 2015 Provided mentoring and guidance with a research project, Advisor/Mentor, *Kristen Litja*, University of Utah
Current Career Activities: Pediatric Residency Program
 2014 - 2017 Project title: MgSO₄ as Neuroprotective Agent, Department of Pediatrics, Division of Clinical Pharmacology. Project Involvement: mentor and guidance with a research project. Advisor/Mentor, *Brad Hillyard*, University of Utah
Current Career Activities: Medical student, University of Utah
 2014 - 2014 Project title: KRAS Pharmacogenomics, Department of Pediatrics, Division of Clinical Pharmacology. Project Involvement: mentor and guidance with a research project. Supervisor, *Jacob Sneddon*, University of Utah
Current Career Activities: Pediatric Residency Program
 2014 - 2014 Project title: Vancomycin and Bacterial Infection in Children, Department of Pediatrics, Division of Clinical Pharmacology. Project Involvement: mentor and guidance with research project., Supervisor, *Nathan Clements*, University of Utah
Current Career Activities: Pediatric Residency Program
 2013 - 2014 Provided mentoring and guidance with a research project, Advisor/Mentor, *Grace Yu*, University of Utah
Current Career Activities: Pediatric Residency Program University of Utah
 2013 - 2013 Provided mentoring and guidance with a research project, Supervisor, *Lara Kapp*, University of Utah
Current Career Activities: Pediatric Residency Program
 2012 - 2016 Project Involvement: mentor and guidance with a research project. Project title: Caffeine PK in neonates, Department of Pediatrics, Division of Clinical Pharmacology, Supervisor, *Katie Schoen*, University of Utah
Current Career Activities: OBGYN Fellow, School of Medicine, University of Utah
 2012 - 2013 Project title: Formulation of Oxandrolone in MCT Oil, Department of Pediatrics, Division of Clinical Pharmacology Project Involvement: mentor and guidance with research project., Supervisor, *Daniel Garvin*, University of Utah
Current Career Activities: Resident Pediatrics, UnityPoint Health - Des Moines, Iowa, USA
 2012 - 2015 Project Involvement: mentor and guidance with a research project. Project title: Body Image in Adolescent Projects, Department of Pediatrics, Adolescent Medicine., Advisor/Mentor, *Antigone Kithas*, University of Utah
Current Career Activities: Medical student, School of Medicine, University of Utah
 2011 - 2012 Project Involvement: mentor and guidance with a research project. Project title: Trends and Use of Vancomycin in Pediatrics, Department of Pediatrics, Division of Clinical Pharmacology, Supervisor, *Benjamin Dowse*, University of Utah
Current Career Activities: Resident Pediatrics, University of Utah Medical Centre
 2011 - 2012 Project Involvement: mentor and guidance with a research project. Project title: Body Image in Medical Students, Department of Pediatrics, Division of Adolescent Medicine, Supervisor, *Kimberly Butler*, University of Utah
Current Career Activities: Family Medicine Residency Program, Contra Costa Medical Center, CA
 2011 - 2012 Project Involvement: mentor and guidance with a research project. Project title: The Use of Pharmacogenetic Testing to Personalize Medicine, Department of Pediatrics, Division of Adolescent Medicine., Supervisor, *Giang Tran*, University of Utah

Current Career Activities: Pediatric Resident, University of Arizona, AZ

Undergraduate

- 2018 - 2018 Project Involvement: mentor and guidance with research project meta-analysis-headache treatments, Advisor/Mentor, *Brandon Brown*, University of Utah
Current Career Activities: Undergraduate student/ pre-med student, University of Utah
- 2017 - 2018 Project Involvement: mentor and guidance with a research project. Asthma-calling and patient charts, Advisor/Mentor, *Alexandra Palmer*, University of Utah
Current Career Activities: Undergraduate student/ pre-med student, University of Utah
- 2017 - 2018 Project Involvement: mentor and guidance with a research project. Side Effects Associated with CFTR Modulator Drugs in Cystic Fibrosis, Advisor/Mentor, *Micah Ballif*, University of Utah
Current Career Activities: Undergraduate student/ pre-med student, BSc (Honors thesis) University of Utah
- 2017 - 2018 Project Involvement: mentor and guidance with a research project. Pharmacokinetics of Drugs in Pediatric Patients Receiving Renal Dialysis (Chart Review Only). Supervisor, *Suruchi Patel*, University of Utah
Current Career Activities: PharmD program, College of Pharmacy, University of Utah
- 2017 - 2018 Project Involvement: Projects: Trends in the Use of Neurolytic Injections in Children and Young Adults with Spasticity. Supervisor, *Sam Motuapuaka*, University of Utah
Current Career Activities: PharmD program, College of Pharmacy, University of Utah
- 2017 - 2019 Project Involvement: mentor and guidance with a research project. Pharmacokinetics and Pharmacodynamics of MgSO₄ Use in Pediatrics, Advisor/Mentor, *Ty Forbes*, Undergraduate student/ pre-med student, University of Utah
Current Career Activities: Medical Student
- 2017 - 2018 Project Involvement: mentor and guidance with a research project. Pharmacodynamics of Leuprolide Acetate in Pediatric Patients, Advisor/Mentor, *Elika Fanaeian*, University of Utah
Current Career Activities: Undergraduate student/ pre-med student, University of Utah
- 2017 - 2018 Project Involvement: mentor and guidance with a research project. Prescription Drug Use in Pregnant and Lactating Women: Usage Trends and Prevalence. Supervisor, *Iris Li*, PharmD program, College of Pharmacy, University of Utah
Current Career Activities: Pharmacy Intern, Huntsman Cancer Institute
- 2017 - 2018 Project Involvement: mentor and guidance with a research project. Citrulline Use in Pediatric Pulmonary Hypertension and Hypertensive Program at the Maliheh Free Clinic, Supervisor, *Miao Ting Lai*, University of Utah
Current Career Activities: Undergraduate student/ pre-pharmacy student, University of Utah
- 2017 - 2018 Trends in the use of neurolytic injections in children and young adults with spasticity, Supervisor, *Darian Murry*, University of Utah
Current Career Activities: Undergraduate student/ pre-med student, University of Utah
- 2016 - 2019 Project Involvement: mentor and guidance with a research project. Clinical Pharmacology of Anti-Epileptic Drugs During Pregnancy. Honors College at the University of Utah. Honors Thesis Project, Supervisor, *Lea Karabegovic*, University of Utah
Current Career Activities: Undergraduate student/ pre-med student, University of Utah
- 2016 - 2019 Project Involvement: mentor and guidance with a research project. Prescription Drug Use in Pregnant and Lactating Women: Usage Trends and Prevalence, Supervisor, *Virginia Young*, University of Utah
Current Career Activities: Undergraduate student/ pre-med student, University of Utah
- 2016 - 2017 Project Involvement: mentor and guidance with career development, Advisor/Mentor, *Julianna Dorsch*, University of Utah
Current Career Activities: PA School, University of Utah
- 2016 - 2017 Project Involvement: mentor and guidance with a research project. Student research project. Advisor/Mentor, *Sarah Brockett*, University of Utah
Current Career Activities: Pre-med student, University of Utah
- 2015 - 2016 Project Involvement: mentor and guidance with a research project. Summer student research project. Supervisor, *Rose Caston*, Thayer School of Engineering at Dartmouth
Current Career Activities: MD/Ph.D. Student at the University of Utah School of Medicine
- 2014 - 2015 Provided mentoring related to career development, Supervisor, *Haley Shaw*, University of Utah
Current Career Activities: Pre-nursing student, University of Utah
- 2014 - 2015 Project title: AKI and Vancomycin in Children, Department of Pediatrics, Division of Clinical Pharmacology. Project Involvement: mentor and guidance with research project., Supervisor, *Fangda Jiang*, University of Utah

- Current Career Activities:* Pre-med student, University of Utah
- 2014 - 2015 Project title: PGx of Therapeutics in Children with Cancer, Department of Pediatrics, Division of Clinical Pharmacology. Project Involvement: mentor and guidance with research project., Supervisor, *Jeff Maybe*, University of Utah
Current Career Activities: Undergraduate student, University of Utah
- 2014 - 2015 Project title: Therapeutics and Neuroprotection in Children, Department of Pediatrics, Division of Clinical Pharmacology. Project Involvement: mentor and guidance with a research project. Supervisor, *Samantha May*, Utah State University
- 2014 - 2014 Provided mentoring related to career development in Clinical Pharmacology through the ACCP mentoring program. Student at Wesley College, Advisor/Mentor, *James Matthews*, Wesley College
- 2014 - 2015 Project title: Antibiotics and Bacterial Infections as Treatments, Department of Pediatrics, Division of Clinical Pharmacology. Project Involvement: mentor and guidance with research project., Supervisor, *Damien Clark*, University of Utah
Current Career Activities: Medical student, University of Utah
- 2013 - 2013 Project title: Anti-infective Used in Children, Department of Pediatrics, Division of Clinical Pharmacology. Project Involvement: mentor and guidance with research project., Supervisor, *Ananya Roy*, University of Utah
Current Career Activities: Pre-med student, University of Utah
- 2013 - 2014 Project title: Causes of Bacterial Infection in Children, Department of Pediatrics, Division of Clinical Pharmacology. Project Involvement: mentor and guidance with research project., Supervisor, *Michele Andrea De Leon*, University of Utah
Current Career Activities: Pre-med student, University of Utah
- 2013 - 2014 Project title: PK and Obesity in Children, Department of Pediatrics, Division of Clinical Pharmacology. Project Involvement: mentor and guidance with a research project. Supervisor, *Alexis Weston*, Westminster College
Current Career Activities: Research Associate II - Lab Manager at the Translational Genomics Research Institute (TGen), Phoenix, Arizona
- 2012 - 2014 Project title: Prescription Drug Use During Pregnancy and Lactation - Poison Control Center Data Collection, Department of Pediatrics, Division of Clinical Pharmacology. Project Involvement: mentor and guidance with research project., Supervisor, *Zoey Bridges*, University of Utah
Current Career Activities: Pre-med student, University of Utah
- 2012 - 2012 Project title: Antibiotic Use in Neonate/Pediatric Critical Care, Department of Pediatrics, Division of Clinical Pharmacology. Project Involvement: mentor and guidance with research project., Supervisor, *Lindsey Hubley*, University of Utah
Current Career Activities: PharmD student, College of Pharmacy, University of Utah
- 2012 - 2012 Project title: Prescription Drug Use During Pregnancy and Lactation - Pregnancy Risk Data Collection, Department of Pediatrics, Division of Clinical Pharmacology. Project Involvement: mentor and guidance with research project., Supervisor, *Tonia VanMoorhem*, Salt Lake Community College
Current Career Activities: Pre-pharmacy student, Salt Lake Community College
- 2012 - 2012 Project title: Causes of Bacterial Infection in Children, Department of Pediatrics, Division of Clinical Pharmacology. Project Involvement: mentor and guidance with research project., Supervisor, *Sean Bailey*, University of Utah
Current Career Activities: Pre-med student, University of Utah
- 2012 - 2012 Project title: Pediatric Drug Delivery, Department of Pediatrics, Division of Clinical Pharmacology. Project Involvement: mentor and guidance with research project., Supervisor, *Dallin Durbano*, University of Utah
Current Career Activities: Research Associate/Analyst at University of Utah, UT, USA
- 2012 - 2015 Project title: Body Image in Adolescents, Department of Pediatrics, Adolescent Medicine. Project Involvement: mentor and guidance with research project., Supervisor, *Elysia Sotiriou*, University of Utah
Current Career Activities: Counseling Psychology Graduate Student, Department of Education, University of Texas-Austin, Austin, Texas, USA
- 2012 - 2014 Project Title: Poison Control - Suicidality in Pregnant Women, Department of Pediatrics, Division of Clinical Pharmacology. Project Involvement: mentor and guidance with research project., Supervisor, *Devon Lewis*, University of Utah
Current Career Activities: Pre-med student, University of Utah, UT, USA
- 2008 - 2008 Research performed at Dept. of Women's and Children's Health, University of Otago, Dunedin, New Zealand Project Title: Aminoglycosides, Hearing Impairment, and Neonates. Postdoctoral Researcher, Division of Clinical Pharmacokinetics and Pharmacometrics, Servier, Paris, France, Supervisor, *Katie Owens*, University of Otago, New Zealand

- 2006 - 2007 *Current Career Activities:* Research Scientist at the University of Washington, Seattle, Washington
 Summer studentship, School of Pharmacy student Sponsored by Douglas Pharmaceuticals. Research performed at Dept. of Women's and Children's Health, Project Title: The Effect Upon Volume of Distribution of Intravenous Volume Expanders Delivered to Neonates Treated with Gentamicin for Suspected Sepsis., Supervisor, *Esther Kostan*, University of Otago, New Zealand
Current Career Activities: Pharmacist, Kensington Pharmacy, New Zealand

High School

- 2015 - 2015 Summer Research Project, High School student, Supervisor, Max Wipfel, University of Utah
Current Career Activities: Pre-med student, University of Utah.
- 2012 - 2012 Project title: Use of Amikacin in children. Project Involvement: mentor and guidance with a research project, Department of Pediatrics, Division of Clinical Pharmacology, Supervisor, Patrick Muvunyi, University of Utah
Current Career Activities: Pre-med student, University of Utah.

Graduate Student Committees

- 2018- present Member, *Hechuan Wang*, University of Maryland, Ph.D./doctorate committee
- 2017- present Member, *Anindit (Andy) Chhibber*, University of Utah, Ph.D. /doctorate committee
- 2017 - 2017 Examiner, *Pieter de Cock*, Universitair Ziekenhuis (Ghent University), Ph.D. /doctorate committee. Under the supervision of profs. De Paepe, Vande Walle, and Della Pasqua. Impact of critical illness on antibiotic disposition in children: towards patient-tailored dosing regimens
- 2017 - 2017 Examiner, *Geetpal Sandhu*, University of Queensland, Australia, Ph.D./doctorate committee. Under the supervision of Drs. Christine Carrington, Christine Staatz, and Sally Mapp. The impact of increasing patient weight on the dosing of high-dose methotrexate chemotherapy in aggressive Non-Hodgkin lymphoma
- 2016 - 2016 Examiner, *Emma Salis*, University of Otago, New Zealand, Ph.D./doctorate committee. Under the supervision of Drs. Natalie Medicott And Joel Tyndall. Factors affecting glucose homeostasis in premature neonates
- 2015 - 2018 Member, *A Cameron Hill*, University of Utah, Ph.D./doctorate committee. Medication nonadherence and epilepsy: a preclinical investigation of nonadherence
- 2015 - 2018 Member, *Casey Tak*, University of Utah, Ph.D./doctorate committee. Barriers to zoster vaccination in adults age 60+: the effect of demographic characteristics, cost-sharing, and state immunization regulations on zoster vaccination rates
- 2015 - 2017 Member, *Devin Pastoor*, University of Maryland, Ph.D./doctorate committee. The innovation of vancomycin treatment in neonates via a Bayesian dose optimization toolkit for adaptive individualized therapeutics management
- 2015 - 2015 Examiner, *Azrin Abd Rahman*, University of Queensland, Australia, Ph.D./doctorate committee. Under the supervision of Prof. Sue Tett And Dr. Christine Staatz
- 2014 - 2017 Member, *Hari Krishna Ananthula*, University of Cincinnati, Ph.D./doctorate committee. Pharmacokinetic evaluation and modeling of tyrosine kinase inhibitors nilotinib and imatinib in preclinical species to aid their repurposing as anti-viral agents
- 2013 - 2015 Member, *Sarah Cook*, University of Utah, Ph.D./doctorate committee. Population pharmacokinetics of intravenous acetaminophen and its metabolites in neonates
- 2012 - 2018 Chair, *Matthew Linakis*, University of Utah, Ph.D./doctorate committee. Neonatal drug delivery and disposition: towards an improvement of care for the youngest patients
- 2012 - 2015 Chair, *Chris Stockmann*, University of Utah, Ph.D./doctorate committee. Pharmacometrics benchmarking: quantitative methods to assess the predictive performance of population pharmacokinetic modeling programs
- 2012 - 2015 Member, *Jiraganya (JJ) Bhongstiern*, University of Cincinnati, Ph.D./doctorate committee. Population pharmacokinetics and dosing recommendations of vancomycin in neonates using modeling and simulation approach

Educational Lectures

Didactic Lectures

- 2016 Title: Advanced options, including Mlxplore and Simulx. Day 3: Pharmacometrics Workshop. Theme: Introduction to Monolix. Utah Clinical Pharmacology and Pharmacometrics Workshops
- 2016 Title: Introduction to Population PKPD modeling with Monolix Day 3: Pharmacometrics Workshop. Theme: Introduction to Monolix. Utah Clinical Pharmacology and Pharmacometrics Workshops
- 2016 Title: Hypothesis Testing, Error Models, and Covariate Analysis. Day 3: Pharmacometrics Workshop. Theme: Introduction to Monolix. Utah Clinical Pharmacology and Pharmacometrics Workshops

- 2016 Title: Implementing PK and PKPD models with Mlxtran. Day 3: Pharmacometrics Workshop. Theme: Introduction to Monolix. Utah Clinical Pharmacology and Pharmacometrics Workshops
- 2016 Title: Working with PK and PD data analysis over several studies. Presented in Day 2: Statistical Methods. Theme: R for Pharmacometricians and Pharmacologists. Utah Clinical Pharmacology and Pharmacometrics Workshops
- 2016 Title: Pharmacometrics and Statistics Toolboxes for Optimal designs. Presented in Day 2: Statistical Methods. Theme: R for Pharmacometricians and Pharmacologists. Utah Clinical Pharmacology and Pharmacometrics Workshops
- 2013 Psychopharmacology: Clinical Vignette, Foundations in Personalized Health Care Course, University of Utah
- 2011 - 2013 Introduction to Toxicology, part of educational lectures for Pediatrics residents on Adolescent Medicine residency teaching series rotation, Department of Pediatrics, University of Utah
- 2011 - 2013 Virus & Vaccines, Treating Infection & Disease, Division of Clinical Pharmacology, educational lecture for graduate students and fellows, Cincinnati Children's Hospital, Cincinnati, OH
- 2011 - 2013 Pregnancy, Infancy & Old Age, Drug actions in the body, Division of Clinical Pharmacology & Clinical Trials Office, Department of Pediatrics, University of Utah, lecture to fellows and graduate students
- 2011 - 2013 Introduction to Toxicology – Poisonings, Ingestion, and Exposures, Division of Clinical Pharmacology & Clinical Trials Office, Department of Pediatrics, University of Utah, lecture to fellows and graduate students
- 2011 - 2013 Introduction to Toxicology – Treatments and Antidotes, Division of Clinical Pharmacology & Clinical Trials Office, Department of Pediatrics, University of Utah, lecture to fellows and graduate students
- 2011 - 2013 Introduction to Toxicology – Disposition of Toxins, Division of Clinical Pharmacology & Clinical Trials Office, Department of Pediatrics, University of Utah, lecture to fellows and graduate students
- 2011 - 2013 Introduction to Clinical Pharmacology, part of educational lectures for clinical coordinators, Department of Pediatrics, University of Utah
- 2009 - 2011 NONMEM 101, Division of Clinical Pharmacology, Cincinnati Children's Hospital, Cincinnati, Ohio
- 2009 - 2010 Introduction to Population PK, Division of Clinical Pharmacology, Cincinnati Children's Hospital, Cincinnati, OH

Departmental Teaching Experience

- 2017 UGT1A9 rs3832043 Decreases Acetaminophen Glucuronidation in Neonates, Research in Progress, Department of Pediatrics, University of Utah
- 2016 Presentation to Division of Clinical Pharmacology, University of Utah. Title: Benefits of Social Media: Your Online Footprint Matters!
- 2016 Solving your Clinical Study Headaches: What a Clinical Pharmacologist can do for you! Administration and Managers Meeting, Department of Pediatrics, University of Utah
- 2016 Evaluation of Bioequivalence of Immunosuppressants in Transplant Patients, Research in Progress, Department of Pediatrics, University of Utah
- 2015 Solving your Clinical Study Headaches: What a Clinical Pharmacologist can do for you. Research Professionals Grand Rounds. Department of Pediatrics, University of Utah
- 2015 Applications for Clinical Pharmacology: Modeling and Simulation for Special Populations, Division of Critical Care Monthly Conference, Department of Pediatrics, University of Utah
- 2015 Development of an Optimal Sampling Schedule for Children Receiving Ketamine for Short-Term Procedural Sedation and Analgesia, Research in Progress, Department of Pediatrics, University of Utah
- 2013 Pharmacokinetic Alterations in Pediatric Burn Patients, Research in Progress, Department of Pediatrics, University of Utah
- 2012 - 2013 "Diagnosing" PKPD Models, Division of Clinical Pharmacology, Department of Pediatrics, University of Utah, Educational lecture for graduate students and fellows
- 2012 - 2013 NONMEM 101, Division of Clinical Pharmacology, Department of Pediatrics, University of Utah, educational lecture for graduate students and fellows
- 2011 Data Modeling of Transdermal Lontophoresis, Research in Progress, Department of Pediatrics, University of Utah
- 2011 - 2013 Applying Clinical Pharmacology, Division of Clinical Pharmacology & Clinical Trials Office, University of Utah, educational lecture for graduate students and fellows
- 2011 - 2013 How Drugs Work (series of 3 lectures), Division of Clinical Pharmacology & Clinical Trials Office, University of Utah, educational lecture for clinical coordinators
- 2011 Introduction to Population PK, Division of Clinical Pharmacology, University of Utah, educational lecture for graduate students and fellows
- 2011 NONMEM 101, Division of Clinical Pharmacology, University of Utah, educational lecture for graduate students and fellows

- 2010 Outline of the Evolution of Pharmacokinetic Models Used to Describe the Population Pharmacokinetics of Mycophenolic Acid, Research in Progress, Cincinnati Children's Hospital, Cincinnati, OH
- 2010 Development of a Population Pharmacokinetic Model for Mycophenolic Acid in Pediatric Patients with Childhood Systemic Lupus Erythematosus Disease (cSLE), Research in Progress, Cincinnati Children's Hospital, Cincinnati, OH
- 2010 "Diagnosing" PKPD Models, Cincinnati Children's Hospital, Division of Clinical Pharmacology, educational lecture for graduate students and fellows
- 2009 NONMEM 101 and Improvements Using NM 7 and Pdx-Pop 4, Cincinnati Children's Hospital, Division of Clinical Pharmacology, educational lecture for graduate students and fellows
- 2009 Pharmacometrics and Pioglitazone in Septic Pediatric Patients, Research in Progress, Cincinnati Children's Hospital, Cincinnati, OH
- 2009 Optimal Study Design for Pioglitazone in Septic Pediatric Patients, Research in Progress, Cincinnati Children's Hospital, Cincinnati, OH
- 2008 Population Pharmacokinetics of Amikacin in Extremely Low Birth Weight to Term Neonates Amikacin PK/PD model. School of Medicine Research in Progress, University of Otago
- 2008 A PK/PD Model to Determine Optimal Dosing Targets for Amikacin in Neonatal Sepsis. School of Pharmacy Noon Conference, University of Otago
- 2007 Clinical Pharmacology of Aminoglycosides in Neonates, School of Pharmacy Noon Conference, University of Otago
- 2006 An investigation into the Intravenous Delivery of Aminoglycoside Antibiotics to Extremely Premature Neonate, Department Monthly Conference, University of Otago
- 2005 Netilmicin to Amikacin in Neonates ... From a Population, Pharmacokinetic View was the Change Good? Department Monthly Conference, University of Otago
- 2004 - 2004 Aminoglycoside Population Pharmacokinetics and Toxicity in Neonates, Department Monthly Conference, University of Otago

Continuing Education

CE Courses Developed

- 2018 - 2019 Pediatric Self-Assessment Program (PedSAP), Review of American College of Clinical Pharmacy chapter topics including Medical Issues in the ICU; Advances in Pediatric/Neonatal Parenteral Nutrition. For CPE and COI review
- 2017 - 2018 Implementation of ACCP revised Virtual Journal Club for CE and CME credit
- 2017 Pediatric Self-Assessment Program (PedSAP) 2017 Book 1 (Research and Study Design in Pediatrics). Development of continuing pharmacy education (CPE) credit for ACCPharmacy.
- 2016 - 2018 Developing a series of webinars for ASCPT for Special Population community members, which are offered for CE and CME
- 2015 - 2018 Developing a series of webinars titled "Therapeutic Dilemmas" for ACCP, which are offered for CE and CME

CE Eligible Courses

- 2018 Presenter, **Sherwin CM**. Can cost-effective research be used to improve early cancer surveillance? Pediatric Journal Club, Dept. Pediatrics, Dayton Children's Hospital. CME eligible
- 2017 Chair and Moderator, **Sherwin CM**, Webinar for ASCPT Special Populations Community, "Modernization of Eligibility Criteria Initiative: Focus on Organ Impairment and Paediatrics Working Groups "
- 2017 Chair and Moderator, **Sherwin CM** ACCP Therapeutic Dilemmas Webinar "How to Get Targeted Agents to the Patients Who Need Them." Presented by Dr. Joanna Yi, MD, Assistant Professor of Pediatric Hematology/Oncology, Baylor College of Medicine/ Texas Children's Cancer and Hematology Centers. 1 CME and 1 CPE Credit Hour.
- 2017 Chair and Moderator, **Sherwin CM** ACCP Therapeutic Dilemmas Webinar "At the Intersection of Environmental Air Pollutant Exposure, Genetic Variation, and Asthma Control." Presented by Dr. Christopher Reilly, Ph.D. is an Associate Professor of Pharmacology and Toxicology and Associate Director of the Center for Human Toxicology at the University of Utah. 1 CME and 1 CPE Credit Hour.
- 2016 Presenter, **Sherwin CM**. Webinar for ASCPT Special Populations Community, "Special Populations: Considerations for Evaluating Body Size and Body Composition."
- 2016 Chair and Moderator, **Sherwin CM** ACCP Therapeutic Dilemmas Webinar "Immune Senescence: What Vaccines Do We Need to Protect Senior Citizens from Infections?". Presented by Dr. Elena Yu Enioutina, MD, Ph.D., Research Assistant Professor, Clinical Pharmacology, Pediatrics, SOM, University of Utah. 1 CME and 1 CPE Credit Hour.
- 2016 Organizer ASCPT **Sherwin CM**, Special Populations Community webinar. Co-chairs Erica Woodahl (University of Montana) and Elena Enioutina (University of Utah). "Specifics of biologics use in geriatric and

- pediatric populations" Presented by Dr. Darrell Abernethy, Associate Director for Drug Safety Office of Clinical Pharmacology/OTS/CDER/FDA.
- 2016 Chair and Moderator **Sherwin CM** ACCP Virtual Journal Club. "Prediction of Drug Clearance in Premature and Mature Neonates, Infants, and Children <2 Years of Age: A Comparison of the Predictive Performance of 4 Allometric Models" Presented by Iftekhar Mahmood PhD, Div of Hematology Clinical Review, Office of Blood Review & Research, Center for Biologic Evaluation & Research, US Food & Drug Administration. 1 CME and 1 CPE Credit Hour.
- 2016 Chair and Moderator, **Sherwin CM** ACCP Therapeutic Dilemmas Webinar "Managing chronic pain: Current challenges for ensuring safe and efficacious opioid use." Presented by Dr. Gary A. Walco, Ph.D., ABPP Professor of Anesthesiology and Pain Medicine, Adjunct Professor of Pediatrics and Psychiatry, University of Washington School of Medicine; Director of Pain Medicine, Seattle Children's Hospital. 1 CME and 1 CPE Credit Hour.
- 2016 - 2016 Faculty: **Sherwin CM** University of Utah Clinical Pharmacology Workshop Series 2016. Applications to Clinical Pharmacology. Theme: Drawing from Pharmacometrics and Statistics Toolboxes to Exploit the Power of Large Observational Datasets; Statistical Methods. Theme: R for Pharmacometricians and Pharmacologists; Pharmacometrics Workshop Theme: Introduction to Monolix. AMA Credit: Primary Children's Hospital designates this live activity for a maximum of 15.75 AMA PRA Category 1 Credit TM. Joint sponsorship University of Utah Department of Pediatrics | Division of Clinical Pharmacology, Primary Children's Hospital, American Association of Pharmaceutical Scientists, Rocky Mountain Discussion Group. Number of registrants 32
- 2016 - 2016 Chair and Moderator, **Sherwin CM** ACCP Therapeutic Dilemmas Webinar "At the Intersection of Herbal and Conventional Medication Use Among Hospitalized Patients: Integration and Interactions in Clinical Practice." Presented by Dr. Andrew McLachlan, Professor of Pharmacy (Aged Care) Faculty of Pharmacy and Centre for Education and Research on Ageing at the University of Sydney and Concord Hospital, Sydney, Australia. 1 CME and 1 CPE Credit Hour
- 2014 - 2014 Webinar for the **ACCP**. Title: Poster Presentation Skills. Faculty: **Sherwin CM**. The **ACCP** designated this live activity for 1.5 AMA PRA Category 1TM credits. <https://accp1.inreachce.com>
- 2014 Webinar for the **ACCP**. Title: Utilizing Comparative Effectiveness and/or Patient-Centered Outcomes Research (CER/PCOR) on the Effects of Healthcare Interventions. Faculty: **Sherwin CM**, Brixner, DI, Malone, DC. The **ACCP** designated this live activity for 1.5 AMA PRA Category 1TM credits. <https://accp1.inreachce.com>
- 2014 - 2014 Faculty: **Sherwin CM** 2014 University of Utah Clinical Pharmacology and Pharmacometrics Workshops, Theme: Working with Modeling Software. AMA Credit: Primary Children's Hospital designates this live activity for a maximum of 24.5 AMA PRA Category 1 Credit(s)™. Number of registrants 20
- 2014 The webinar titled "Do's and Do not's of PK modeling" presented by **Sherwin CM.**, presented for AAPS Student Chapter, University of Cincinnati.
- 2014 Faculty: **Sherwin CM** Clinical Investigator Training Workshop Series Theme: FDA's Role in Clinical Trials. CME Accreditation. Accreditation Council for Continuing Medical Education through the joint sponsorship of Primary Children's Medical Center, and the Department of Pediatrics at the University of Utah School of Medicine. AMA Credit, Primary Children's Medical Center designated this live activity for a maximum of 17.75 AMA PRA Category 1 Credit(s)™. Number of registrants 15
- 2013 Faculty: **Sherwin CM** Clinical Investigator Training Workshop Series. The Role of a Principal Investigator: What Every New and Seasoned PI Needs to Know about Industry-Sponsored Studies. CME Accreditation. Accreditation Council for Continuing Medical Education through the joint sponsorship of Primary Children's Medical Center, and the Department of Pediatrics at the University of Utah School of Medicine. AMA Credit, Primary Children's Medical Center designated this live activity for a maximum of 17.75 AMA PRA Category 1 Credit(s)™. Number of registrants 25
- 2013 Faculty: **Sherwin CM** University of Utah Pharmacometrics Workshop: Theme: Inside the "Black Box" of Population PK Modeling. CME Accreditation. Accreditation Council for Continuing Medical Education through the joint sponsorship of Primary Children's Medical Center, and the Department of Pediatrics at the University of Utah School of Medicine. AMA Credit, Primary Children's Medical Center designated this live activity for a maximum of 17.75 AMA PRA Category 1 Credit(s)™. Number of registrants 20
- 2013 Faculty: **Sherwin CM** University of Utah Clinical Pharmacology Workshop on Variability. Theme: Clinical Pharmacology in Special Populations (An Audience Participation Approach). CME Accreditation. Accreditation Council for Continuing Medical Education through the joint sponsorship of Primary Children's Medical Center, and the Department of Pediatrics at the University of Utah School of Medicine. AMA Credit, Primary Children's Medical Center designated this live activity for a maximum of 17.75 AMA PRA Category 1 Credit(s)™. Number of registrants 25

Additional Teaching/ Mentoring Contributions

- 2018 Graduate Student (*Casey Tak*) awarded Best Graduate Student Poster for the poster titled "Effect of a Prescription Order Requirement for Pharmacist-Administered Vaccination on Zoster Vaccination Rates" Tak CR, Kim J, Gunning K, Ruble J, **Sherwin CM**, Nickman NA, Biskupiak J. AMCP Managed Care & Specialty Pharmacy Annual Meeting 2018
- 2018 - 2018 Undergraduate mentored student (*Lea Karabegovic*) selected to participate in the Undergraduate Research Opportunities Program (UROP) for the Fall 2018 semester
- 2018 - 2018 Undergraduate mentored student (*Darian Murray*) selected to participate in the Undergraduate Research Opportunities Program (UROP) for the Fall 2017 semester
- 2017 - 2017 Undergraduate mentored student (*Virginia Young*) selected to participate in the Undergraduate Research Opportunities Program (UROP) for the Fall 2017 semester
- 2017 Trainee (*Matthew Linakis*) awarded Presidential Trainee Award with Funding for ASCPT 2017 abstract: Linakis MW, Liu X, Cook SF, Kumar SS, Wilkins DG, Gaedigk R, Gaedigk A, **Sherwin CM**, van den Anker JN. UGT1A9 rs3832043 influences acetaminophen glucuronidation in neonates.
- 2017 - 2018 Graduate Student (*Casey Tak*) awarded the American Foundation for Pharmaceutical Education (AFPE) Pre-Doctoral Fellowship in Clinical Pharmaceutical Sciences
- 2017 - 2018 Graduate Student (Casey Tak) awarded Skaggs Graduate Research Fellowship
- 2016 - 2018 Graduate Student (*Matthew Linakis*) awarded the American Foundation for Pharmaceutical Education (AFPE) Pre-Doctoral Fellowship in Clinical Pharmaceutical Sciences
- 2015 Graduate Student (*Matthew Linakis*) awarded travelship from the University of Utah Department of Pharmaceutics and Pharmaceutical Chemistry
- 2015 Fellow (*Xiaoxi Lui*) Awarded travelship to Attend the AAPS Annual Conference by Clinical Pharmacology and Translational Research
- 2015 NARI Intern (*Jennifer Murillo*) Awarded travelship to Attend the Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) Conference, Washington, DC
- 2015 Fellow (*Jonathan Constance*) awarded (ACCP 2015) Student Award Winner based on the abstract entitled, "Nonsteroidal anti-inflammatory drug-associated nephrotoxicity among neonates diagnosed with patent ductus arteriosus."
- 2015 - 2015 Fellow (*Jonathan Constance*) awarded (ACCP 2015) Wayne A. Colburn Memorial Award.
- 2015 Undergraduate mentored student (*Bradley Hillyard*) selected to participate in the Undergraduate Research Opportunities Program (UROP) for the Fall 2015 semester
- 2015 NARI Intern (*Jennifer Murillo*) Awarded Travelship to Attend the Association of American Indian Physicians (AAIP) Conference, Tulalip, WA
- 2015 NARI Intern (*Jennifer Murillo*) Awarded Travelship to Attend the Association of American Indian Physicians (AAIP) conference, Tulalip, WA
- 2015 Medical Student (*Nathan Clements*), 2nd year, awarded Best Poster under the Therapy or Treatment Approach Projects at the 2015 Annual Medical Student Scholarly Activity Symposium, Alumni Hall, University of Utah
- 2014 - 2014 Fellow (*Sarah Campbell*) Awarded Travelship to Attend the AAPS Annual Conference by Clinical Pharmacology and Translational Research (CPTR))
- 2014 - 2014 Graduate Student (*Matthew Linakis*) Awarded Travelship to Attend the AAPS Annual Conference by Analysis and Pharmaceutical Quality section (APQ)
- 2014 - 2014 Fellow (*Jonathan Constance*) awarded Travelship to attend the Pediatric Pharmacogenomics and Personalized Medicine Conference, 2014, Kansas City, MO
- 2014 - 2014 Fellow (*Jessica Roberts*) awarded Travelship to attend the Pediatric Pharmacogenomics and Personalized Medicine Conference, 2014, Kansas City, MO
- 2014 - 2015 Graduate Student (*Chris Stockmann*) awarded the American Foundation for Pharmaceutical Education (AFPE) Pre-Doctoral Fellowship in the Pharmaceutical Sciences
- 2013 - 2013 Fellow (*Jonathan Constance*) selected to attend the Summer Institute in Maternal-Fetal Pharmacology sponsored by the Canadian Institutes of Health – Institute of Human Development, Child and Youth Health. 9th Annual CIHR-IHDCYH Summer Institute in Maternal-Fetal and Pediatric Pharmacology, Toronto, Canada
- 2013 - 2013 Graduate Student (*Jiraganya Bhongstiern*) selected to attend the Summer Institute in Maternal-Fetal Pharmacology sponsored by the Canadian Institutes of Health – Institute of Human Development, Child and Youth Health. 9th Annual CIHR-IHDCYH Summer Institute in Maternal-Fetal and Pediatric Pharmacology, Toronto, Canada
- 2013 - 2013 Fellow (*Sarah Campbell*) awarded Travelship to attend the Pediatric Pharmacogenomics and Personalized Medicine Conference, 2013, Kansas City, MO
- 2013 Student (Angela Green) awarded Academic Pediatric Association Research Award for Best Abstract by a Student based on the abstract entitled, "Pharmacogenomic Testing Trends in Pediatric Patients."
- 2013 Fellow (*Jonathan Constance*) awarded University of Utah Personalized Medicine Travelship through the University of Utah Program which provides funding for University of Utah trainees to travel to national

- personalized health care conferences. (Personalized Healthcare Summit: From Concept to Practice, May 6-7, 2013)
- 2013 Trainee (*Salman Yakub*) awarded Presidential Trainee Award with Funding for ASCPT 2013 abstract: Yakub SY, Campbell SC, **Sherwin CM**, Constance J, Balch A, Spigarelli MG (2013). Trends of use of vancomycin in neonates.
- 2012 - 2012 Fellow (*Sarah Campbell*) Awarded Travelship to Attend the AAPS Annual Conference by Clinical Pharmacology and Translational Research (CPTR)
- 2012 Fellow (*Sarah Campbell*) selected to attend the Summer Institute in Maternal-Fetal Pharmacology sponsored by the Canadian Institutes of Health – Institute of Human Development, Child and Youth Health
- 2012 Fellow (*Sarah Campbell*) awarded University of Utah Personalized Medicine Travelship through the University of Utah Program which provides funding for University of Utah trainees to travel to national personalized health care conferences.
- 2008 Student (*Katie Owens*) awarded Best Presentation Prize at the School of Pharmacy Symposium for 4th-year research project, Dunedin School of Medicine/School of Pharmacy, University of Otago

Published Journal Articles

Complete list of published work in MyNCBI: <https://www.ncbi.nlm.nih.gov/myncbi/10cJnL6Fcskk8/bibliography/public/>

1. Wang J, Kumar SS, **Sherwin CM**, Ward R, Baer G, Burckart GJ, Wang Y, Yao LP. Renal Clearance in Newborns and Infants: Predictive Performance of Population-Based Modeling for Drug Development. *Clin Pharmacol Ther.* 2019 Jun;105(6):1462-1470. doi: 10.1002/cpt.1332. Epub 2019 Feb 10. PubMed PMID: 30565653; PubMed Central PMCID: PMC6513721.
2. Krzyzanski W, Cook SF, Wilboux M, **Sherwin CM**, Allegaert K, Vermeulen A, van den Anker JN. Population Pharmacokinetic Modeling in the Presence of Missing Time-Dependent Covariates: Impact of Body Weight on Pharmacokinetics of Paracetamol in Neonates. *AAPS J.* 2019 May 28;21(4):68. doi: 10.1208/s12248-019-0331-0. PubMed PMID: 31140019.
3. Tak CR, Biltaji E, Kohlmann W, Maese L, Hainaut P, Villani A, Malkin D, **Sherwin CM**, Brixner DI, Schiffman JD. Cost-effectiveness of early cancer surveillance for patients with Li-Fraumeni syndrome. *Pediatr Blood Cancer.* 2019 May;66(5): e27629. doi: 10.1002/pbc.27629. Epub 2019 Feb 4. PubMed PMID: 30719841.
4. Rower JE, Anderson DJ, **Sherwin CM**, Reilly CA, Ballard PL, McEvoy CT, Wilkins DG. Development and validation of an assay for quantifying budesonide in dried blood spots collected from extremely low gestational age neonates. *J Pharm Biomed Anal.* 2019 Apr 15; 167:7-14. doi: 10.1016/j.jpba.2019.01.048. Epub 2019 Jan 29. PubMed PMID: 30738243.
5. Deng J, Chalhoub NE, **Sherwin CM**, Li C, Brunner HI. Glucocorticoids pharmacology and their application in the treatment of childhood-onset systemic lupus erythematosus. *Semin Arthritis Rheum.* 2019 Mar 16; doi: 10.1016/j.semarthrit.2019.03.010. [Epub ahead of print] Review. PubMed PMID: 30987856; NIHMSID: NIHMS1524177.
6. Liu X, Smits A, Wang Y, Renard M, Wead S, Kagan RJ, Healy DP, De Cock P, Allegaert K, **Sherwin CM**. Impact of Disease on Amikacin Pharmacokinetics and Dosing in Children. *Ther Drug Monit.* 2019 Feb;41(1):44-52. doi: 10.1097/FTD.0000000000000568. PubMed PMID: 30299427.
7. Stockmann C, Olson J, Rashid J, Lubsch L, Young DC, Hersh AL, Frymoyer A, Ampofo K, Liu X, Wang Y, **Sherwin CM**, Zobell JT. An Evaluation of Vancomycin Area Under the Curve Estimation Methods for Children Treated for Acute Pulmonary Exacerbations of Cystic Fibrosis Due to Methicillin-Resistant *Staphylococcus aureus*. *J Clin Pharmacol.* 2019 Feb;59(2):198-205. doi: 10.1002/jcph.1323. Epub 2018 Oct 29. PubMed PMID: 30371946.
8. Tak CR, Gunning K, Kim J, **Sherwin CM**, Ruble JH, Nickman NA, Biskupiak JE. The effect of a prescription order requirement for pharmacist-administered vaccination on herpes zoster vaccination rates. *Vaccine.* 2019 Jan 21;37(4):631-636. doi: 10.1016/j.vaccine.2018.12.003. Epub 2018 Dec 15. PubMed PMID: 30563788.
9. Yellepeddi V, Rower J, Liu X, Kumar S, Rashid J, **Sherwin CM**. State-of-the-Art Review on Physiologically Based Pharmacokinetic Modeling in Pediatric Drug Development. *Clin Pharmacokinet.* 2019 Jan;58(1):1-13. doi: 10.1007/s40262-018-0677-y. Review. PubMed PMID: 29777528
10. Becker SM, Job KM, Lima K, Forbes TJ, Wagstaff J, Tran NK, **Sherwin CM**, Nelson DS, Johnson MD, Rower JE. Prospective study of serum and ionized magnesium pharmacokinetics in the treatment of children with severe acute asthma. *Eur J Clin Pharmacol.* 2019 Jan;75(1):59-66. doi: 10.1007/s00228-018-2557-7. Epub 2018 Sep 26. PubMed PMID: 30259065.
11. Grimsrud KN, Ivanova X, **Sherwin CM**, Palmieri TL, Tran NK. Identification of Cytochrome P450 Polymorphisms in Burn Patients and Impact on Fentanyl Pharmacokinetics: A Pilot Study. *J Burn Care Res.* 2019 Jan 1;40(1):91-96. doi: 10.1093/jbcr/iry053. PubMed PMID: 30371861.
12. Ananthula HK, Parker S, Touchette E, Buller RM, Patel G, Kalman D, Salzer JS, Gallardo-Romero N, Olson V, Damon IK, Moir-Savitz T, Sallans L, Werner MH, **Sherwin CM**, Desai PB. Preclinical pharmacokinetic evaluation to facilitate

- repurposing of tyrosine kinase inhibitors nilotinib and imatinib as antiviral agents. *BMC Pharmacol Toxicol*. 2018 Dec 4;19(1):80. doi: 10.1186/s40360-018-0270-x. PubMed PMID: 30514402; PubMed Central PMCID: PMC6278073.
13. Linakis MW, Cook SF, Kumar SS, Liu X, Wilkins DG, Gaedigk R, Gaedigk A, **Sherwin CM**, van den Anker JN. Polymorphic Expression of UGT1A9 is Associated with Variable Acetaminophen Glucuronidation in Neonates: A Population Pharmacokinetic and Pharmacogenetic Study. *Clin Pharmacokinet*. 2018 Oct;57(10):1325-1336. doi: 10.1007/s40262-018-0634-9. PubMed PMID: 29654492.
 14. Illamola SM, **Sherwin CM**, van Hasselt JGC. Clinical Pharmacokinetics of Amikacin in Pediatric Patients: A Comprehensive Review of Population Pharmacokinetic Analyses. *Clin Pharmacokinet*. 2018 Oct;57(10):1217-1228. doi: 10.1007/s40262-018-0641-x. Review. PubMed PMID: 29572662.
 15. Illamola SM, Huynh HQ, Liu X, Bhakta ZN, **Sherwin CM**, Liou TG, Carveth H, Young DC. Population Pharmacokinetics of Amikacin in Adult Patients with Cystic Fibrosis. *Antimicrob Agents Chemother*. 2018 Oct;62(10). doi: 10.1128/AAC.00877-18. Print 2018 Oct. PubMed PMID: 30061295; PubMed Central PMCID: PMC6153835.
 16. Roberts JK, Linakis MW, Liu X, **Sherwin CM**, van den Anker JN. Evident bias in a paracetamol metabolite population pharmacokinetic model applied to an external dataset. *Br J Clin Pharmacol*. 2018 Jul;84(7):1628-1630. doi: 10.1111/bcp.13588. Epub 2018 Apr 17. PubMed PMID: 29667221; PubMed Central PMCID: PMC6005626.
 17. Kumar SS, Biltaji E, Bies R, **Sherwin CM**. The clinical utility of pharmacometric models. *Br J Clin Pharmacol*. 2018 Jul;84(7):1413-1414. doi: 10.1111/bcp.13603. Epub 2018 May 2. PubMed PMID: 29637580; PubMed Central PMCID: PMC6005593.
 18. Illamola SM, Bucci-Rechtweg C, Costantine MM, Tsilou E, **Sherwin CM**, Zajicek A. Inclusion of pregnant and breastfeeding women in research - efforts and initiatives. *Br J Clin Pharmacol*. 2018 Feb;84(2):215-222. doi: 10.1111/bcp.13438. Epub 2017 Oct 22. Review. PubMed PMID: 28925019; PubMed Central PMCID: PMC5777434.
 19. Ward RM, Benjamin DK Jr, Davis JM, Gorman RL, Kauffman R, Kearns GL, Murphy MD, **Sherwin CM**. The Need for Pediatric Drug Development. *J Pediatr*. 2018 Jan; 192:13-21. doi: 10.1016/j.jpeds.2017.08.011. Epub 2017 Sep 21. PubMed PMID: 28942898.
 20. Linakis MW, Rower JE, Roberts JK, Miller EI, Wilkins DG, **Sherwin CM**. Population pharmacokinetic model of transdermal nicotine delivered from a matrix-type patch. *Br J Clin Pharmacol*. 2017 Dec;83(12):2709-2717. doi: 10.1111/bcp.13393. Epub 2017 Sep 6. PubMed PMID: 28771779; PubMed Central PMCID: PMC5698581.
 21. Rower JE, Stockmann C, Linakis MW, Kumar SS, Liu X, Korgenski EK, **Sherwin CM**, Molina KM. Predicting tacrolimus concentrations in children receiving a heart transplant using a population pharmacokinetic model. *BMJ Paediatr Open*. 2017;1: e000147. doi: 10.1136/bmjpo-2017-000147. Epub 2017 Nov 22. PubMed PMID: 29177199; PubMed Central PMCID: PMC5699789.
 22. Biltaji E, Kumar SS, Enioutina EY, **Sherwin CM**. Can ad hoc analyses of clinical trials help personalize treatment decisions? *Br J Clin Pharmacol*. 2017 Nov;83(11):2337-2338. doi: 10.1111/bcp.13377. Epub 2017 Aug 16. PubMed PMID: 28815756; PubMed Central PMCID: PMC5651315.
 23. Enioutina EY, Teng L, Fateeva TV, Brown JCS, Job KM, Bortnikova VV, Krepkova LV, Gubarev MI, **Sherwin CM**. Phytotherapy as an alternative to conventional antimicrobials: combating microbial resistance. *Expert Rev Clin Pharmacol*. 2017 Nov;10(11):1203-1214. doi: 10.1080/17512433.2017.1371591. Epub 2017 Aug 31. Review. PubMed PMID: 28836870.
 24. Constance JE, Reith D, Ward RM, Balch A, Stockmann C, Korgenski EK, Thorell EA, **Sherwin CM**. Risk of nonsteroidal anti-inflammatory drug-associated renal dysfunction among neonates diagnosed with patent ductus arteriosus and treated with gentamicin. *J Perinatol*. 2017 Oct;37(10):1093-1102. doi: 10.1038/jp.2017.80. Epub 2017 Jun 8. PubMed PMID: 28594394.
 25. Linakis MW, Job KM, Liu X, Collingwood SC, Pangburn HA, Ott DK, **Sherwin CM**. Riding (High) into the danger zone: a review of potential differences in chemical exposures in fighter pilots resulting from high altitude and G-forces. *Expert Opin Drug Metab Toxicol*. 2017 Sep;13(9):925-934. doi: 10.1080/17425255.2017.1360867. Epub 2017 Aug 20. Review. PubMed PMID: 28772091.
 26. Tak CR, Job KM, Schoen-Gentry K, Campbell SC, Carroll P, Costantine M, Brixner D, Birnbaum AK, **Sherwin CM**. The impact of exposure to antidepressant medications during pregnancy on neonatal outcomes: a review of retrospective database cohort studies. *Eur J Clin Pharmacol*. 2017 Sep;73(9):1055-1069. doi: 10.1007/s00228-017-2269-4. Epub 2017 Jun 9. Review. PubMed PMID: 28600701.
 27. Constance JE, Campbell SC, Somani AA, Yellepeddi V, Owens KH, **Sherwin CM**. Pharmacokinetics, pharmacodynamics and pharmacogenetics associated with nonsteroidal anti-inflammatory drugs and opioids in pediatric cancer patients. *Expert Opin Drug Metab Toxicol*. 2017 Jul;13(7):715-724. doi: 10.1080/17425255.2017.1329415. Epub 2017 Jun 5. Review. PubMed PMID: 28490206.
 28. Enioutina EY, Salis ER, Job KM, Gubarev MI, Krepkova LV, **Sherwin CM**. Herbal Medicines: challenges in the modern world. Part 5. status and current directions of complementary and alternative herbal medicine worldwide. *Expert Rev Clin Pharmacol*. 2017 Mar;10(3):327-338. doi: 10.1080/17512433.2017.1268917. Epub 2016 Dec 15. Review. PubMed PMID: 27923318.

29. Rower JE, Liu X, Yu T, Mundorff M, **Sherwin CM**, Johnson MD. Clinical pharmacokinetics of magnesium sulfate in the treatment of children with severe acute asthma. *Eur J Clin Pharmacol*. 2017 Mar;**73**(3):325-331. doi: 10.1007/s00228-016-2165-3. Epub 2016 Dec 2. PubMed PMID: 27909740.
30. Yu T, Enioutina EY, Brunner HI, Vinks AA, **Sherwin CM**. Clinical Pharmacokinetics and Pharmacodynamics of Biologic Therapeutics for Treatment of Systemic Lupus Erythematosus. *Clin Pharmacokinet*. 2017 Feb;**56**(2):107-125. doi: 10.1007/s40262-016-0426-z. Review. PubMed PMID: 27384528; PubMed Central PMCID: PMC5575762.
31. Jones BL, **Sherwin CM**, Liu X, Dai H, Vyhldal CA. Genetic Variation in the Histamine Production, Response, and Degradation Pathway Is Associated with Histamine Pharmacodynamic Response in Children with Asthma. *Front Pharmacol*. 2016; **7**:524. doi: 10.3389/fphar.2016.00524. eCollection 2016. PubMed PMID: 28101058; PubMed Central PMCID: PMC5209333.
32. Lanke S, Yu T, Rower JE, Balch AH, Korgenski EK, **Sherwin CM**. AUC-Guided Vancomycin Dosing in Adolescent Patients with Suspected Sepsis. *J Clin Pharmacol*. 2017 Jan;**57**(1):77-84. doi: 10.1002/jcph.782. Epub 2016 Jul 15. PubMed PMID: 27291466.
33. Job KM, Kiang TK, Constance JE, **Sherwin CM**, Enioutina EY. Herbal medicines: challenges in the modern world. Part 4. Canada and United States. *Expert Rev Clin Pharmacol*. 2016 Dec;**9**(12):1597-1609. doi: 10.1080/17512433.2016.1238762. Epub 2016 Oct 3. Review. PubMed PMID: 27644147.
34. Ward RM, **Sherwin CM**. Newborns still lack drug data to guide therapy. *Br J Clin Pharmacol*. 2016 Dec;**82**(6):1410-1411. doi: 10.1111/bcp.13074. Epub 2016 Oct 3. PubMed PMID: 27696484; PubMed Central PMCID: PMC5099549.
35. Liu X, Yu T, Rower JE, Campbell SC, **Sherwin CM**, Johnson MD. Optimizing the use of intravenous magnesium sulfate for acute asthma treatment in children. *Pediatr Pulmonol*. 2016 Dec;**51**(12):1414-1421. doi: 10.1002/ppul.23482. Epub 2016 May 24. Review. PubMed PMID: 27218606.
36. Burch PT, Spigarelli MG, Lambert LM, Loftus PD, **Sherwin CM**, Linakis MW, Sheng X, LuAnn Minich L, Williams RV. Use of Oxandrolone to Promote Growth in Neonates following Surgery for Complex Congenital Heart Disease: An Open-Label Pilot Trial. *Congenit Heart Dis*. 2016 Dec;**11**(6):693-699. doi: 10.1111/chd.12376. Epub 2016 Jun 3. PubMed PMID: 27257953.
37. Cook SF, Stockmann C, Samiee-Zafarghandy S, King AD, Deutsch N, Williams EF, Wilkins DG, **Sherwin CM**, van den Anker JN. Neonatal Maturation of Paracetamol (Acetaminophen) Glucuronidation, Sulfation, and Oxidation Based on a Parent-Metabolite Population Pharmacokinetic Model. *Clin Pharmacokinet*. 2016 Nov;**55**(11):1395-1411. doi: 10.1007/s40262-016-0408-1. PubMed PMID: 27209292; PubMed Central PMCID: PMC5572771.
38. Dobson NR, Liu X, Rhein LM, Darnall RA, Corwin MJ, McEntire BL, Ward RM, James LP, **Sherwin CM**, Heeren TC, Hunt CE. Salivary caffeine concentrations are comparable to plasma concentrations in preterm infants receiving extended caffeine therapy. *Br J Clin Pharmacol*. 2016 Sep;**82**(3):754-61. doi: 10.1111/bcp.13001. Epub 2016 Jun 3. PubMed PMID: 27145974; PubMed Central PMCID: PMC5338118.
39. Teng L, Zu Q, Li G, Yu T, Job KM, Yang X, Di L, **Sherwin CM**, Enioutina EY. Herbal medicines: challenges in the modern world. Part 3. China and Japan. *Expert Rev Clin Pharmacol*. 2016 Sep;**9**(9):1225-33. doi: 10.1080/17512433.2016.1195263. Epub 2016 Jun 8. Review. PubMed PMID: 27232545.
40. Job KM, Olson J, Stockmann C, Constance JE, Enioutina EY, Rower JE, Linakis MW, Balch AH, Yu T, Liu X, Thorell EA, **Sherwin CM**. Pharmacodynamic studies of voriconazole: informing the clinical management of invasive fungal infections. *Expert Rev Anti Infect Ther*. 2016 Aug;**14**(8):731-46. doi: 10.1080/14787210.2016.1207526. Review. PubMed PMID: 27355512.
41. Liu X, Jones BL, Roberts JK, **Sherwin CM**. Population pharmacokinetic/pharmacodynamic modeling of histamine response measured by histamine iontophoresis laser Doppler. *J Pharmacokinet Pharmacodyn*. 2016 Aug;**43**(4):385-93. doi: 10.1007/s10928-016-9478-9. Epub 2016 Jun 15. PubMed PMID: 27307292; PubMed Central PMCID: PMC4994972.
42. Sammons HM, Gubarev MI, Krepkova LV, Bortnikova VV, Corrick F, Job KM, **Sherwin CM**, Enioutina EY. Herbal medicines: challenges in the modern world. Part 2. European Union and Russia. *Expert Rev Clin Pharmacol*. 2016 Aug;**9**(8):1117-27. doi: 10.1080/17512433.2016.1189326. Epub 2016 May 27. Review. PubMed PMID: 27171366.
43. Campbell SC, Kast TT, Kamyar M, Robertson J, **Sherwin CM**. Calls to a teratogen information service regarding potential exposures in pregnancy and breastfeeding. *BMC Pharmacol Toxicol*. 2016 Jul **23**;17(1):33. doi: 10.1186/s40360-016-0076-7. PubMed PMID: 27449139; PubMed Central PMCID: PMC4958285.
44. Tak CR, Yu T, **Sherwin CM**, Mihalopoulos NL. Optimizing enrollment in pediatric obese patients: reflections on recruitment characteristics. *Int J Adolesc Med Health*. 2016 Jul **2**;29(6). doi: 10.1515/ijamh-2016-0029. PubMed PMID: 27371820; PubMed Central PMCID: PMC5205559.
45. Barnes J, McLachlan AJ, **Sherwin CM**, Enioutina EY. Herbal medicines: challenges in the modern world. Part 1. Australia and New Zealand. *Expert Rev Clin Pharmacol*. 2016 Jul;**9**(7):905-15. doi: 10.1586/17512433.2016.1171712. Epub 2016 Apr 12. Review. PubMed PMID: 27070431.
46. Yu T, Balch AH, Ward RM, Korgenski EK, **Sherwin CM**. Incorporating pharmacodynamic considerations into caffeine therapeutic drug monitoring in preterm neonates. *BMC Pharmacol Toxicol*. 2016 Jun **7**;17(1):22. doi: 10.1186/s40360-016-0065-x. PubMed PMID: 27266401; PubMed Central PMCID: PMC4896039.

47. Stockmann C, Sammons H, Starkey E, Constance JE, **Sherwin CM**. Unanswered Questions Regarding Optimal Pediatric Vancomycin Use. *Ther Drug Monit*. 2016 Jun;38(3):419-20. doi: 10.1097/FTD.0000000000000289. PubMed PMID: 27172382.
48. Allegaert K, Sherwin C. Neonates, and medicines: a roadmap to further improve neonatal pharmaceutical care. *Eur J Pediatr*. 2016 Jun;175(6):743-6. doi: 10.1007/s00431-015-2686-2. Epub 2016 Jan 7. PubMed PMID: 26744132.
49. Bhongsatiern J, Stockmann C, Yu T, Constance JE, Moorthy G, Spigarelli MG, Desai PB, **Sherwin CM**. Renal Function Descriptors in Neonates: Which Creatinine-Based Formula Best Describes Vancomycin Clearance? *J Clin Pharmacol*. 2016 May;56(5):528-40. doi: 10.1002/jcph.650. Epub 2015 Dec 18. Review. PubMed PMID: 26412385.
50. Constance JE, Balch AH, Stockmann C, Linakis MW, Korgenski EK, Roberts JK, Ward RM, **Sherwin CM**, Spigarelli MG. A propensity-matched cohort study of vancomycin-associated nephrotoxicity in neonates. *Arch Dis Child Fetal Neonatal Ed*. 2016 May; 101 (3), F236-F243. doi: 10.1136/archdischild-2015-308459. Epub 2015 Sep 23. PubMed PMID: 26400103.
51. Yu T, Campbell SC, Stockmann C, Tak C, Schoen K, Clark EA, Varner MW, Spigarelli MG, **Sherwin CM**. Pregnancy-induced changes in the pharmacokinetics of caffeine and its metabolites. *J Clin Pharmacol*. 2016 May;56(5):590-6. doi: 10.1002/jcph.632. Epub 2015 Dec 22. PubMed PMID: 26358647; PubMed Central PMCID: PMC5564294.
52. Stockmann C, **Sherwin CM**, Knackstedt ED, Hersh AL, Pavia AT, Spigarelli MG. Therapeutic Drug Monitoring of Ganciclovir Treatment for Cytomegalovirus Infections Among Immunocompromised Children. *J Pediatric Infect Dis Soc*. 2016 Mar 8; 5 (2), 231-232. doi: 10.1093/jpids/piw008. [Epub ahead of print] PubMed PMID: 26962197.
53. Linakis MW, Roberts JK, Lala AC, Spigarelli MG, Medlicott NJ, Reith DM, Ward RM, **Sherwin CM**. Challenges Associated with Route of Administration in Neonatal Drug Delivery. *Clin Pharmacokinet*. 2016 Feb;55(2):185-96. doi: 10.1007/s40262-015-0313-z. Review. PubMed PMID: 26245673.
54. Janssen EJ, Väliälto PA, Allegaert K, de Cock RF, Simons SH, **Sherwin CM**, Mouton JW, van den Anker JN, Knibbe CA. Towards Rational Dosing Algorithms for Vancomycin in Neonates and Infants Based on Population Pharmacokinetic Modeling. *Antimicrob Agents Chemother*. 2016 Feb;60(2):1013-21. doi: 10.1128/AAC.01968-15. Print 2016 Feb. PubMed PMID: 26643337; PubMed Central PMCID: PMC4750654.
55. Cook SF, Roberts JK, Samiee-Zafarghandy S, Stockmann C, King AD, Deutsch N, Williams EF, Allegaert K, Wilkins DG, **Sherwin CM**, van den Anker JN. Population Pharmacokinetics of Intravenous Paracetamol (Acetaminophen) in Preterm and Term Neonates: Model Development and External Evaluation. *Clin Pharmacokinet*. 2016 Jan;55(1):107-19. doi: 10.1007/s40262-015-0301-3. PubMed PMID: 26201306; PubMed Central PMCID: PMC5564323.
56. Bhongsatiern J, Stockmann C, Roberts JK, Yu T, Korgenski KE, Spigarelli MG, Desai PB, **Sherwin CM**. Evaluation of Vancomycin Use in Late-Onset Neonatal Sepsis Using the Area Under the Concentration-Time Curve to the Minimum Inhibitory Concentration ≥ 400 Target. *Ther Drug Monit*. 2015 Dec;37(6):756-65. doi: 10.1097/FTD.0000000000000216. PubMed PMID: 26562817; PubMed Central PMCID: PMC5641451.
57. Roberts JK, Stockmann C, Ward RM, Beachy J, Baserga MC, Spigarelli MG, **Sherwin CM**. Population Pharmacokinetics of Darbepoetin Alfa in Conjunction with Hypothermia for the Treatment of Neonatal Hypoxic-Ischemic Encephalopathy. *Clin Pharmacokinet*. 2015 Dec;54(12):1237-44. doi: 10.1007/s40262-015-0286-y. PubMed PMID: 25989868; PubMed Central PMCID: PMC5572760.
58. Stockmann C, Barrett JS, Roberts JK, **Sherwin CM**. Use of Modeling and Simulation in the Design and Conduct of Pediatric Clinical Trials and the Optimization of Individualized Dosing Regimens. *CPT Pharmacometrics Syst Pharmacol*. 2015 Nov;4(11):630-40. doi: 10.1002/psp4.12038. Epub 2015 Nov 13. PubMed PMID: 26783499; PubMed Central PMCID: PMC4716585.
59. Enioutina EY, Constance JE, Stockmann C, Linakis MW, Yu T, Rower JE, Balch AH, **Sherwin CM**. Pharmacokinetic considerations in the use of antivirals in neonates. *Expert Opin Drug Metab Toxicol*. 2015;11(12):1861-78. doi: 10.1517/17425255.2015.1108963. Epub 2015 Nov 4. Review. PubMed PMID: 26535960.
60. Roberts JK, Cook SF, Stockmann C, Rollins DE, Wilkins DG, **Sherwin CM**. A Population Pharmacokinetic Analysis of Dextroamphetamine in the Plasma and Hair of Healthy Adults. *Clin Drug Investig*. 2015 Oct;35(10):633-43. doi: 10.1007/s40261-015-0323-5. PubMed PMID: 26329917; PubMed Central PMCID: PMC5572767.
61. Linakis MW, Stockmann C, Campbell SC, Williams RV, Burch PT, Lambert LM, **Sherwin CM**, Reilly CA, Spigarelli MG. Quantitative Assay Validation for Oxandrolone in Human Plasma Using LC-MS-MS. *J Anal Toxicol*. 2015 Sep;39(7):526-31. doi: 10.1093/jat/bkv056. Epub 2015 May 27. PubMed PMID: 26017381.
62. Baserga MC, Beachy JC, Roberts JK, Ward RM, DiGeronimo RJ, Walsh WF, Ohls RK, Anderson J, Mayock DE, Juul SE, Christensen RD, Loertscher MC, Stockmann C, **Sherwin CM**, Spigarelli MG, Yoder BA. Darbepoetin administration to neonates undergoing cooling for encephalopathy: a safety and pharmacokinetic trial. *Pediatr Res*. 2015 Sep;78(3):315-22. doi: 10.1038/pr.2015.101. Epub 2015 May 21. PubMed PMID: 25996892; PubMed Central PMCID: PMC5564328.
63. Stockmann C, Spigarelli MG, Healy DP, Gottschlich MM, Kagan R, Balch AH, **Sherwin CM**. Application of a method used to deconstruct a single dose pharmacokinetic profile from multiple dose data. *Biopharm Drug Dispos*. 2015 Sep;36(6):405-409. doi: 10.1002/bdd.1949. Epub 2015 Apr 21. PubMed PMID: 25766031.
64. Stockmann C, Reilly CA, Fassel B, Gaedigk R, Nkoy F, Stone B, Roberts JK, Uchida DA, Leeder JS, **Sherwin CM**, Spigarelli MG, Yost GS, Ward RM. Effect of CYP3A5*3 on asthma control among children treated with inhaled beclomethasone.

- J Allergy Clin Immunol. 2015 Aug;136(2):505-7. doi: 10.1016/j.jaci.2015.02.009. Epub 2015 Mar 29. PubMed PMID: 25825214; PubMed Central PMCID: PMC4530077.
65. Yang X, **Sherwin CM**, Yu T, Yellepeddi VK, Brunner HI, Vinks AA. Pharmacokinetic modeling of therapies for systemic lupus erythematosus. *Expert Rev Clin Pharmacol*. 2015;8(5):587-603. doi: 10.1586/17512433.2015.1059751. Epub 2015 Jul 9. Review. PubMed PMID: 26143647; PubMed Central PMCID: PMC5575755.
 66. Yu T, Stockmann C, Healy DP, Olson J, Wead S, Neely AN, Kagan RJ, Spigarelli MG, **Sherwin CM**. Determination of Optimal Amikacin Dosing Regimens for Pediatric Patients with Burn Wound Sepsis. *J Burn Care Res*. 2015 Jul-Aug;36(4):e244-52. doi: 10.1097/BCR.000000000000159. PubMed PMID: 25185930.
 67. Stockmann C, Ampofo K, Pavia AT, Byington CL, Blaschke AJ, **Sherwin CM**, Spigarelli MG, Hersh AL. National trends in the incidence, outcomes and charges of pediatric osteoarticular infections, 1997-2012. *Pediatr Infect Dis J*. 2015 Jun;34(6):672-4. doi: 10.1097/INF.0000000000000686. PubMed PMID: 25806839.
 68. Stockmann C, Hersh AL, Roberts JK, Bhongsatiern J, Korgenski EK, Spigarelli MG, **Sherwin CM**, Frymoyer A. Predictive Performance of a Vancomycin Population Pharmacokinetic Model in Neonates. *Infect Dis Ther*. 2015 Jun;4(2):187-98. doi: 10.1007/s40121-015-0067-9. Epub 2015 May 22. PubMed PMID: 25998107; PubMed Central PMCID: PMC4471056.
 69. Lala AC, Broadbent RS, Medlicott NJ, **Sherwin CM**, Reith DM. Illustrative neonatal cases regarding drug delivery issues. *J Paediatr Child Health*. 2015 May;51(5):478-481. doi: 10.1111/jpc.12764. Epub 2014 Nov 2. PubMed PMID: 25363351.
 70. Stockmann C, Roberts JK, Yellepeddi VK, **Sherwin CM**. Clinical pharmacokinetics of inhaled antimicrobials. *Clin Pharmacokinet*. 2015 May;54(5):473-92. doi: 10.1007/s40262-015-0250-x. Review. PubMed PMID: 25735634.
 71. Roberts JK, Stockmann C, Balch A, Yu T, Ward RM, Spigarelli MG, **Sherwin CM**. Optimal design in pediatric pharmacokinetic and pharmacodynamic clinical studies. *Paediatr Anaesth*. 2015 Mar;25(3):222-30. doi: 10.1111/pan.12575. Epub 2015 Jan 9. Review. PubMed PMID: 25580772.
 72. Ward RM, **Sherwin CM**. Ethics of drug studies in the newborn. *Paediatr Drugs*. 2015 Feb;17(1):37-42. doi: 10.1007/s40272-014-0099-8. Review. PubMed PMID: 25354989.
 73. Stockmann C, Roberts JK, Knackstedt ED, Spigarelli MG, **Sherwin CM**. Clinical pharmacokinetics and pharmacodynamics of ganciclovir and valganciclovir in children with cytomegalovirus infection. *Expert Opin Drug Metab Toxicol*. 2015 Feb;11(2):205-19. doi: 10.1517/17425255.2015.988139. Epub 2014 Nov 27. Review. PubMed PMID: 25428442.
 74. **Sherwin CM**, Stockmann C, Grimsrud K, Herd DW, Anderson BJ, Spigarelli MG. Development of an optimal sampling schedule for children receiving ketamine for short-term procedural sedation and analgesia. *Paediatr Anaesth*. 2015 Feb;25(2):211-6. doi: 10.1111/pan.12521. Epub 2014 Sep 12. PubMed PMID: 25212712.
 75. Stockmann C, Hillyard B, Ampofo K, Spigarelli MG, **Sherwin CM**. Levofloxacin inhalation solution for the treatment of chronic *Pseudomonas aeruginosa* infection among patients with cystic fibrosis. *Expert Rev Respir Med*. 2015 Feb;9(1):13-22. doi: 10.1586/17476348.2015.986469. Epub 2014 Nov 24. Review. PubMed PMID: 25417708.
 76. Balch AH, Constance JE, Thorell EA, Stockmann C, Korgenski EK, Campbell SC, Spigarelli MG, **Sherwin CM**. Pediatric vancomycin dosing: Trends over time and the impact of therapeutic drug monitoring. *J Clin Pharmacol*. 2015 Feb;55(2):212-20. doi: 10.1002/jcph.402. Epub 2014 Nov 7. PubMed PMID: 25264036; PubMed Central PMCID: PMC5641452.
 77. Grimsrud KN, **Sherwin CM**, Constance JE, Tak C, Zuppa AF, Spigarelli MG, Mihalopoulos NL. Special population considerations and regulatory affairs for clinical research. *Clin Res Regul Aff*. 2015;32(2):47-56. doi: 10.3109/10601333.2015.1001900. PubMed PMID: 26401094; PubMed Central PMCID: PMC4577021.
 78. Stockmann C, Gottschlich MM, Healy D, Khoury JC, Mayes T, **Sherwin CM**, Spigarelli MG, Kagan RJ. Relationship between zolpidem concentrations and sleep parameters in pediatric burn patients. *J Burn Care Res*. 2015 Jan-Feb;36(1):137-44. doi: 10.1097/BCR.0000000000000164. PubMed PMID: 25185933; PubMed Central PMCID: PMC5609879.
 79. Kaur I, Constance JE, Kosak KM, Spigarelli MG, **Sherwin CM**. An extensive pharmacokinetic, metabolic and toxicological review of elderly patients under intensive chemotherapy for acute myeloid leukemia. *Expert Opin Drug Metab Toxicol*. 2015 Jan;11(1):53-65. doi: 10.1517/17425255.2015.972934. Epub 2014 Dec 9. Review. PubMed PMID: 25488904.
 80. Stockmann C, Ross JS, **Sherwin CM**, Reilly CA, McDowell B, Fassl B, Nkoy F, Maloney CG, Spigarelli MG. Rate of asthma trial outcomes reporting on ClinicalTrials.gov and in the published literature. *J Allergy Clin Immunol*. 2014 Dec;134(6):1443-1446. doi: 10.1016/j.jaci.2014.09.019. Epub 2014 Oct 28. PubMed PMID: 25441299; PubMed Central PMCID: PMC4261054.
 81. Yakub SY, Constance JE, Stockmann C, Linakis M, Campbell SC, **Sherwin CM**, Korgenski EK, Balch A, Spigarelli MG. Epidemiological Evaluation of Blood Culture Patterns among Neonates Receiving Vancomycin. *Indian J Microbiol*. 2014 Dec;54(4):389-95. doi: 10.1007/s12088-014-0478-4. Epub 2014 Jun 17. PubMed PMID: 25320436; PubMed Central PMCID: PMC4186929.
 82. Doll E, Wilkes J, Cook LJ, Korgenski EK, Faix RG, Yoder BA, Srivastava R, **Sherwin CM**, Spigarelli MG, Clark EA, Bonkowsky JL. Neonatal magnesium levels correlate with motor outcomes in premature infants: a long-term

- retrospective cohort study. *Front Pediatr.* 2014; 2:120. doi: 10.3389/fped.2014.00120. eCollection 2014. PubMed PMID: 25414842; PubMed Central PMCID: PMC4220726.
83. Stockmann C, Roberts JK, Yu T, Constance JE, Knibbe CA, Spigarelli MG, **Sherwin CM**. Vancomycin pharmacokinetic models: informing the clinical management of drug-resistant bacterial infections. *Expert Rev Anti Infect Ther.* 2014 Nov;12(11):1371-88. doi: 10.1586/14787210.2014.966081. Review. PubMed PMID: 25301231.
 84. De Cock RF, Allegaert K, Brussee JM, **Sherwin CM**, Mulla H, de Hoog M, van den Anker JN, Danhof M, Knibbe CA. Simultaneous pharmacokinetic modeling of gentamicin, tobramycin and vancomycin clearance from neonates to adults: towards a semi-physiological function for maturation in glomerular filtration. *Pharm Res.* 2014 Oct;31(10):2643-54. doi: 10.1007/s11095-014-1361-z. Epub 2014 May 2. PubMed PMID: 24789450; PubMed Central PMCID: PMC4749758.
 85. Campbell SC, Stockmann C, Balch A, Clark EA, Kamyar M, Varner M, Korgenski EK, Bonkowsky JL, Spigarelli MG, **Sherwin CM**. Intrapartum magnesium sulfate and the potential for cardiopulmonary drug-drug interactions. *Ther Drug Monit.* 2014 Aug;36(4):544-8. doi: 10.1097/FTD.000000000000050. PubMed PMID: 24487252; PubMed Central PMCID: PMC4101045.
 86. Roberts JK, Stockmann C, Constance JE, Stiers J, Spigarelli MG, Ward RM, **Sherwin CM**. Pharmacokinetics and pharmacodynamics of antibacterials, antifungals, and antivirals used most frequently in neonates and infants. *Clin Pharmacokinet.* 2014 Jul;53(7):581-610. doi: 10.1007/s40262-014-0147-0. Review. PubMed PMID: 24871768.
 87. **Sherwin CM**, Medicott NJ, Reith DM, Broadbent RS. Intravenous drug delivery in neonates: lessons learnt. *Arch Dis Child.* 2014 Jun;99(6):590-4. doi: 10.1136/archdischild-2013-304887. Epub 2014 Jan 30. Review. PubMed PMID: 24482352.
 88. Stockmann C, **Sherwin CM**, Buterbaugh W, Spigarelli MG, Gottschlich MM, Healy D, Kagan RJ. Preliminary assessment of zolpidem pharmacokinetics in pediatric burn patients. *Ther Drug Monit.* 2014 Jun;36(3):295-301. doi: 10.1097/FTD.000000000000017. PubMed PMID: 24365985.
 89. Stockmann C, Constance JE, Roberts JK, Olson J, Doby EH, Ampofo K, Stiers J, Spigarelli MG, **Sherwin CM**. Pharmacokinetics and pharmacodynamics of antifungals in children and their clinical implications. *Clin Pharmacokinet.* 2014 May;53(5):429-54. doi: 10.1007/s40262-014-0139-0. Review. PubMed PMID: 24595533; PubMed Central PMCID: PMC5564398.
 90. **Sherwin CM**, Balch A, Campbell SC, Fredrickson J, Clark EA, Varner M, Stockmann C, Korgenski EK, Bonkowsky JL, Spigarelli MG. Maternal magnesium sulphate exposure predicts neonatal magnesium blood concentrations. *Basic Clin Pharmacol Toxicol.* 2014 Apr;114(4):318-22. doi: 10.1111/bcpt.12166. Epub 2013 Dec 11. PubMed PMID: 24164968; PubMed Central PMCID: PMC3949120.
 91. Stockmann C, **Sherwin CM**, Koren G, Campbell SC, Constance JE, Linakis M, Balch A, Varner MW, Spigarelli MG. Characteristics and publication patterns of obstetric studies registered in ClinicalTrials.gov. *J Clin Pharmacol.* 2014 Apr;54(4):432-7. doi: 10.1002/jcph.212. Epub 2013 Nov 14. PubMed PMID: 24165853; PubMed Central PMCID: PMC3954944.
 92. Schoen K, Yu T, Stockmann C, Spigarelli MG, **Sherwin CM**. Use of methylxanthine therapies for the treatment and prevention of apnea of prematurity. *Paediatr Drugs.* 2014 Apr;16(2):169-77. doi: 10.1007/s40272-013-0063-z. Review. PubMed PMID: 24399614; PubMed Central PMCID: PMC5609880.
 93. Yu T, Stockmann C, Balch AH, Spigarelli MG, **Sherwin CM**. Evolution of interventional vancomycin trials considering new antibiotic development in the USA, 1999-2012. *Int J Antimicrob Agents.* 2014 Mar;43(3):215-22. doi: 10.1016/j.ijantimicag.2013.10.002. Epub 2013 Oct 16. Review. PubMed PMID: 24183801.
 94. De Cock RF, Allegaert K, **Sherwin CM**, Nielsen EI, de Hoog M, van den Anker JN, Danhof M, Knibbe CA. A neonatal amikacin covariate model can be used to predict ontogeny of other drugs eliminated through glomerular filtration in neonates. *Pharm Res.* 2014 Mar;31(3):754-67. doi: 10.1007/s11095-013-1197-y. Epub 2013 Sep 25. PubMed PMID: 24065592; PubMed Central PMCID: PMC5565484.
 95. **Sherwin CM**, Wead S, Stockmann C, Healy D, Spigarelli MG, Neely A, Kagan R. Amikacin population pharmacokinetics among paediatric burn patients. *Burns.* 2014 Mar;40(2):311-8. doi: 10.1016/j.burns.2013.06.015. Epub 2013 Jul 19. PubMed PMID: 23876785.
 96. Stockmann C, Hersh AL, **Sherwin CM**, Spigarelli MG. Alignment of United States funding for cardiovascular disease research with deaths, years of life lost, and hospitalizations. *Int J Cardiol.* 2014 Mar 1;172(1): e19-21. doi: 10.1016/j.ijcard.2013.12.095. Epub 2014 Jan 5. PubMed PMID: 24439868.
 97. **Sherwin CM**, Ngamprasertwong P, Sadhasivam S, Vinks AA. Utilization of optimal study design for maternal and fetal sheep propofol pharmacokinetics study: a preliminary study. *Curr Clin Pharmacol.* 2014 Feb;9(1):64-9. PubMed PMID: 24219004; PubMed Central PMCID: PMC5564389.
 98. Lacher SE, Gremaud JN, Skagen K, Steed E, Dalton R, Sugden KD, Cardozo-Pelaez F, **Sherwin CM**, Woodahl EL. Absence of P-glycoprotein transport in the pharmacokinetics and toxicity of the herbicide paraquat. *J Pharmacol Exp Ther.* 2014 Feb;348(2):336-45. doi: 10.1124/jpet.113.209791. Epub 2013 Dec 2. PubMed PMID: 24297779; PubMed Central PMCID: PMC3912546.
 99. Stockmann C, **Sherwin CM**, Ampofo K, Spigarelli MG. Development of levofloxacin inhalation solution to treat *Pseudomonas aeruginosa* in patients with cystic fibrosis. *Ther Adv Respir Dis.* 2014 Feb;8(1):13-21. doi:

- 10.1177/1753465813508445. Epub 2013 Dec 10. Review. PubMed PMID: 24334337; PubMed Central PMCID: PMC5564390.
100. Stockmann C, Spigarelli MG, Campbell SC, Constance JE, Courter JD, Thorell EA, Olson J, **Sherwin CM**. Considerations in the pharmacologic treatment and prevention of neonatal sepsis. *Paediatr Drugs*. 2014 Feb;16(1):67-81. doi: 10.1007/s40272-013-0057-x. Review. PubMed PMID: 24218112.
 101. **Sherwin CM**, Zobell JT, Stockmann C, McCrory BE, Wisdom M, Young DC, Olson J, Ampofo K, Spigarelli MG. Pharmacokinetic and pharmacodynamic optimization of intravenous tobramycin dosing among children with cystic fibrosis. *J Pharmacokinet Pharmacodyn*. 2014 Feb;41(1):71-9. doi: 10.1007/s10928-013-9348-7. Epub 2014 Jan 7. PubMed PMID: 24395072.
 102. Stockmann C, **Sherwin CM**, Zobell JT, Lubsch L, Young DC, Olson J, Noyes BE, Ampofo K, Spigarelli MG. Population pharmacokinetics of intermittent vancomycin in children with cystic fibrosis. *Pharmacotherapy the Journal of Human Pharmacology and Drug Therapy*. 2013 Dec;33(12):1288-96. doi: 10.1002/phar.1320. Epub 2013 Jul 3. PubMed PMID: 23824677.
 103. Stockmann C, Spigarelli MG, Ampofo K, **Sherwin CM**. Bioequivalence and Bioavailability Clinical Trials: A Status Report from the National Institutes of Health ClinicalTrials.gov Registry. *J Bioequivalence Bioavailab*. 2013 Nov 4; 5:244-247. doi: 10.4172/jbb.1000167. PubMed PMID: 25328346; PubMed Central PMCID: PMC4201122.
 104. Young DC, Zobell JT, Stockmann C, Waters CD, Ampofo K, **Sherwin CM**, Spigarelli MG. Optimization of anti-pseudomonal antibiotics for cystic fibrosis pulmonary exacerbations: V. Aminoglycosides. *Pediatr Pulmonol*. 2013 Nov;48(11):1047-61. doi: 10.1002/ppul.22813. Epub 2013 Sep 2. Review. PubMed PMID: 24000183.
 105. Stockmann C, **Sherwin CM**, Ampofo K, Hersh AL, Pavia AT, Byington CL, Ward RM, Spigarelli MG. Characteristics of antimicrobial studies registered in the USA through ClinicalTrials.gov. *Int J Antimicrob Agents*. 2013 Aug;42(2):161-6. doi: 10.1016/j.ijantimicag.2013.04.019. Epub 2013 May 30. PubMed PMID: 23726436; PubMed Central PMCID: PMC3714326.
 106. Jones BL, Kearns G, Neville KA, **Sherwin CM**, Spigarelli MM, Leeder JS. Variability of histamine pharmacodynamic response in children with allergic rhinitis. *J Clin Pharmacol*. 2013 Jul;53(7):731-7. doi: 10.1002/jcph.93. Epub 2013 May 16. PubMed PMID: 23681823; PubMed Central PMCID: PMC5564401.
 107. Zobell JT, Young DC, Waters CD, Ampofo K, Stockmann C, **Sherwin CM**, Spigarelli MG. Optimization of anti-pseudomonal antibiotics for cystic fibrosis pulmonary exacerbations: VI. Executive summary. *Pediatr Pulmonol*. 2013 Jun;48(6):525-37. doi: 10.1002/ppul.22757. Epub 2013 Jan 28. Review. PubMed PMID: 23359557.
 108. Stockmann C, **Sherwin CM**, Zobell JT, Young DC, Waters CD, Spigarelli MG, Ampofo K. Optimization of anti-pseudomonal antibiotics for cystic fibrosis pulmonary exacerbations: III. fluoroquinolones. *Pediatr Pulmonol*. 2013 Mar;48(3):211-20. doi: 10.1002/ppul.22667. Epub 2012 Sep 4. Review. PubMed PMID: 22949224.
 109. Zobell JT, Waters CD, Young DC, Stockmann C, Ampofo K, **Sherwin CM**, Spigarelli MG. Optimization of anti-pseudomonal antibiotics for cystic fibrosis pulmonary exacerbations: II. cephalosporins and penicillins. *Pediatr Pulmonol*. 2013 Feb;48(2):107-22. doi: 10.1002/ppul.22669. Epub 2012 Sep 4. Review. PubMed PMID: 22949297.
 110. Young DC, Zobell JT, Waters CD, Ampofo K, Stockmann C, **Sherwin CM**, Spigarelli MG. Optimization of anti-pseudomonal antibiotics for cystic fibrosis pulmonary exacerbations: IV. colistimethate sodium. *Pediatr Pulmonol*. 2013 Jan;48(1):1-7. doi: 10.1002/ppul.22664. Epub 2012 Sep 4. PubMed PMID: 22949160.
 111. Campbell SC, Spigarelli MG, Courter J, **Sherwin CM**. Metabolic and toxicological considerations for sepsis drug treatments. *Expert Opin Drug Metab Toxicol*. 2013 Jan;9(1):79-89. doi: 10.1517/17425255.2012.727396. Epub 2012 Sep 24. Review. PubMed PMID: 22998292.
 112. Zobell JT, Young DC, Waters CD, Stockmann C, Ampofo K, **Sherwin CM**, Spigarelli MG. Optimization of anti-pseudomonal antibiotics for cystic fibrosis pulmonary exacerbations: I. aztreonam and carbapenems. *Pediatr Pulmonol*. 2012 Dec;47(12):1147-58. doi: 10.1002/ppul.22655. Epub 2012 Aug 21. Review. PubMed PMID: 22911974.
 113. **Sherwin CM**, Saldaña SN, Bies RR, Aman MG, Vinks AA. Population pharmacokinetic modeling of risperidone and 9-hydroxyrisperidone to estimate CYP2D6 subpopulations in children and adolescents. *Ther Drug Monit*. 2012 Oct;34(5):535-44. doi: 10.1097/FTD.0b013e318261c240. PubMed PMID: 22929407; PubMed Central PMCID: PMC3442132.
 114. **Sherwin CM**, Kiang TK, Spigarelli MG, Ensom MH. Fundamentals of population pharmacokinetic modelling: validation methods. *Clin Pharmacokinet*. 2012 Sep 1;51(9):573-90. doi: 10.2165/11634200-000000000-00000. Review. PubMed PMID: 22799590.
 115. Kiang TK, **Sherwin CM**, Spigarelli MG, Ensom MH. Fundamentals of population pharmacokinetic modelling: modelling and software. *Clin Pharmacokinet*. 2012 Aug 1;51(8):515-25. doi: 10.2165/11634080-000000000-00000. Review. PubMed PMID: 22676301.
 116. **Sherwin CM**, Sagcal-Gironella AC, Fukuda T, Brunner HI, Vinks AA. Development of population PK model with enterohepatic circulation for mycophenolic acid in patients with childhood-onset systemic lupus erythematosus. *Br J Clin Pharmacol*. 2012 May;73(5):727-40. doi: 10.1111/j.1365-2125.2011.04140. x. PubMed PMID: 22053944; PubMed Central PMCID: PMC3403200.

117. De Cock RF, Allegaert K, Schreuder MF, **Sherwin CM**, de Hoog M, van den Anker JN, Danhof M, Knibbe CA. Maturation of the glomerular filtration rate in neonates, as reflected by amikacin clearance. *Clin Pharmacokinet*. 2012 Feb 1;51(2):105-17. doi: 10.2165/11595640-000000000-00000. PubMed PMID: 22229883.
118. Zobell JT, Stockmann C, Young DC, Cash J, McDowell BJ, Korgenski K, **Sherwin CM**, Spigarelli M, Chatfield BA, Ampofo K. Population pharmacokinetic and pharmacodynamic modeling of high-dose intermittent ticarcillin-clavulanate administration in pediatric cystic fibrosis patients. *Clin Ther*. 2011 Nov;33(11):1844-50. doi: 10.1016/j.clinthera.2011.09.010. Epub 2011 Oct 21. PubMed PMID: 22018680.
119. Sagcal-Gironella AC, **Sherwin CM**, Tirona RG, Rieder MJ, Brunner HI, Vinks AA. Pharmacokinetics of prednisolone at steady state in young patients with systemic lupus erythematosus on prednisone therapy: an open-label, single-dose study. *Clin Ther*. 2011 Oct;33(10):1524-36. doi: 10.1016/j.clinthera.2011.09.015. Epub 2011 Oct 7. PubMed PMID: 21982386; PubMed Central PMCID: PMC3742043.
120. **Sherwin CM**, Ding L, Kaplan J, Spigarelli MG, Vinks AA. Optimal study design for pioglitazone in septic pediatric patients. *J Pharmacokinet Pharmacodyn*. 2011 Aug;38(4):433-47. doi: 10.1007/s10928-011-9202-8. Epub 2011 Jun 11. PubMed PMID: 21667139; PubMed Central PMCID: PMC3287370.
121. Merhar SL, Schibler KR, **Sherwin CM**, Meinzen-Derr J, Shi J, Balmakund T, Vinks AA. Pharmacokinetics of levetiracetam in neonates with seizures. *J Pediatr*. 2011 Jul;159(1):152-154.e3. doi: 10.1016/j.jpeds.2011.03.057. Epub 2011 May 18. PubMed PMID: 21592494; PubMed Central PMCID: PMC3789844.
122. Sagcal-Gironella AC, Fukuda T, Wiers K, Cox S, Nelson S, Dina B, **Sherwin CM**, Klein-Gitelman MS, Vinks AA, Brunner HI. Pharmacokinetics and pharmacodynamics of mycophenolic acid and their relation to response to therapy of childhood-onset systemic lupus erythematosus. *Semin Arthritis Rheum*. 2011 Feb;40(4):307-13. doi: 10.1016/j.semarthrit.2010.05.007. Epub 2010 Jul 23. PubMed PMID: 20655577; PubMed Central PMCID: PMC3021770.
123. **Sherwin CM**, Fukuda T, Brunner HI, Goebel J, Vinks AA. The evolution of population pharmacokinetic models to describe the enterohepatic recycling of mycophenolic acid in solid organ transplantation and autoimmune disease. *Clin Pharmacokinet*. 2011 Jan;50(1):1-24. doi: 10.2165/11536640-000000000-00000. Review. PubMed PMID: 21142265; PubMed Central PMCID: PMC5565486.
124. Allegaert K, **Sherwin CM**. Amikacin in neonates: dosing recommendations should be based on both pharmacokinetics and dynamics. *Singapore Med J*. 2010 Jan;51(1):88-9. PubMed PMID: 20200782.
125. **Sherwin CM**, Broadbent RS, Medicott NJ, Reith DM. Individualised dosing of amikacin in neonates. *Eur J Clin Pharmacol*. 2009 Dec;65(12):1267-8. doi: 10.1007/s00228-009-0691-y. PubMed PMID: 19655134.
126. **Sherwin CM**, Svahn S, Van der Linden A, Broadbent RS, Medicott NJ, Reith DM. Individualised dosing of amikacin in neonates: a pharmacokinetic/pharmacodynamic analysis. *Eur J Clin Pharmacol*. 2009 Jul;65(7):705-13. doi: 10.1007/s00228-009-0637-4. Epub 2009 Mar 21. PubMed PMID: 19305985.
127. **Sherwin CM**, Kostan E, Broadbent RS, Medicott NJ, Reith DM. Evaluation of the effect of intravenous volume expanders upon the volume of distribution of gentamicin in septic neonates. *Biopharm Drug Dispos*. 2009 Jul;30(5):276-80. doi: 10.1002/bdd.666. PubMed PMID: 19544484.
128. **Sherwin CM**, McCaffrey F, Broadbent RS, Reith DM, Medicott NJ. Discrepancies between predicted and observed rates of intravenous gentamicin delivery for neonates. *J Pharm Pharmacol*. 2009 Apr;61(4):465-71. doi: 10.1211/jpp/61.04.0008. PubMed PMID: 19298693.
129. **Sherwin CM**, Broadbent RS, Medicott NJ, Reith DM. Individualising netilmicin dosing in neonates. *Eur J Clin Pharmacol*. 2008 Dec;64(12):1201-8. doi: 10.1007/s00228-008-0536-0. Epub 2008 Aug 7. PubMed PMID: 18685839.
130. **Sherwin CM**, Broadbent R, Young S, Worth J, McCaffrey F, Medicott NJ, Reith D. Utility of interleukin-12 and interleukin-10 in comparison with other cytokines and acute-phase reactants in the diagnosis of neonatal sepsis. *Am J Perinatol*. 2008 Nov;25(10):629-36. doi: 10.1055/s-0028-1090585. Epub 2008 Oct 10. PubMed PMID: 18850512
131. **Sherwin CM**, Svahn S, Broadbent RS, Van Der Linden A, Medicott NJ, Reith DM. Netilmicin withdrawal: impact on neonates. *N Z Med J*. 2008 Oct 17;121(1284):95-7. PubMed PMID: 18953395.
132. Mishra S, Storer MK, **Sherwin CM**, Lewis JG. A simple binding assay for the direct determination of biotin in urine. *Clin Chim Acta*. 2005 Oct;360(1-2):60-6. doi: 10.1016/j.cccn.2005.04.011. PubMed PMID: 15961070.

Books

Book Chapters

1. Yellepeddi, Venkata K., Roberts JK, Escobar L, Sayre C, **Sherwin CM**. Chapter 9: The Relationship Between Pharmacogenomics and Pharmacokinetics and Its Impact on Drug Choice and Dosing Regimens in Pediatrics: Dosage, Design, and Pharmacotherapy Success. 2018, Pages 203-222 In book: ADME Processes in Pharmaceutical Sciences. Editor(s) name(s): Editors: Talevi, Alan, Quiroga, Pablo Alejandro (Eds.). Springer International Publishing. ISBN: 978-3-319-99592-2
2. De Cock PAJG, Allegaert K, Linakis MW, **Sherwin CM**. Chapter 12: Antibiotic dosing in pediatric critically ill patients. In: Antibiotic pharmacokinetic/pharmacodynamic considerations in the critically ill. 2018, pp 239-263. Editor(s) name(s): Udy A, Roberts J, Lipman J. Springer-Adis, (ISBN: 978-981-10-5335-1 (Print) 978-981-10-5336-8 (Online)).

3. Krekels EHJ, Rower JE, Constance JE, Knibbe CAJ, **Sherwin CM**. Hepatic Drug Metabolism in Pediatric Patients. *Drug Metabolism in Diseases*. 1st Edition. Ed. Xie. 2017 Elsevier Inc., 2017, Pages 181–206; ISBN: 9780128029633
4. Campbell SC, Salisbury LM, Roberts JK, Kamyar M, Fredrickson J, Costantine MM, **Sherwin CM**: Therapeutic Drug Monitoring in Pregnancy. *Clinical Challenges in Therapeutic Drug Monitoring*, 1st Edition. Eds. Clarke & Dasgupta. 2016: pages 185-211; ISBN: 9780128020258

Conference Proceedings

1. Karanam, A., **Sherwin, C.M.**, Birnbaum, A. (2018). A PBPK model for modeling drug exposures of lamotrigine in breastfed infants [Abstract]. (ACoP), 2018. *Journal of pharmacokinetics and pharmacodynamics*
2. Ivanova, X., Liu, X., Tran, V., Sullivan, K., Wead, S., Neely, A., Kagan, R., Healy, D., **Sherwin, C.M.** (2018). Influence of Demographic and Clinical Variables on Vancomycin Trough Values in Pediatric Burn Patients. *Annual Burn Association Meeting, Chicago IL, Journal of Burn Care & Research*, 39(suppl 1), S73-S73
3. Grimsrud, K.N., Ivanova, X., **Sherwin, C.M.**, Palmieri, T., Tran, N.K. (2018). Identification of Cytochrome P450 Polymorphisms in Burn Patients and Impact on Fentanyl Pharmacokinetics. *Annual Burn Association Meeting, Chicago IL, Journal of Burn Care & Research*, 39 (suppl 1), S34-S34
4. Balch, A.H., Kumar, S.S., Rower, J., Illamola, S.M., Liu, X., Korgenski, K., Yoo, J., Kim, H., Wang, J., Zhang, X., **Sherwin, C.M.** (2018). Statistical Properties of the pAUC metric in Pediatric Kidney Patients receiving Tacrolimus. (*ASCPT*) *Orlando FL, Clinical Pharmacology & Therapeutics*, 103, S1, S125
5. Liu, X., Wang, Y., **Sherwin, C.M.** (2018). Evaluating the performance of classical pk models, 2nd-gen MPBPK models, and MPBPK models with TMDD in predicting therapeutic monoclonal antibody PK in human. (*ASCPT*), *Orlando, FL, Clinical Pharmacology & Therapeutics*, 103, S78-S78
6. Biltaji, E., Korgenski, E.K., **Sherwin, C.M.**, Constance, J.E. (2018). Predictors of liver toxicity associated with voriconazole exposure among pediatric and young adult patients. (*ASCPT*) *Orlando FL, Clinical Pharmacology & Therapeutics*, 103, S25-S25
7. Plumage, E., Illamola, S., Balch, A., **Sherwin, C.M.** (2018). Therapeutic Drug Monitoring in Pediatric Heart Transplant Patients Receiving Mycophenolate Mofetil. (*ASCPT*), *Orlando, FL, Clinical Pharmacology & Therapeutics*, 103, S47-S47.
8. Huynh, H.Q., Illamola, S.M., Liu, X., Bhakta, Z., **Sherwin, C.M.**, Liou, T.G., Carveth, H., Young, D.C. (2017). Population pharmacokinetics of intravenous amikacin in adult cystic fibrosis patients. *North American Cystic Fibrosis Conference (NACF) 2017, Indianapolis, IN, Pediatric Pulmonology*, 52, S366-S366
9. May, L., Liu, X., **Sherwin, C.M.**, Yang, L., Zehnder, J., Lee, J., Lo, C., Chen, S., Rosenthal, D.N., McElhinney, D.B., Almond, C.S. (2017). Use of TEG/Platelet Mapping to Dose-Adjust Platelet Inhibitors in Children Supported with the Berlin EXCOR: In Search of a Correlation. *The Journal of Heart and Lung Transplantation*, 36(4), S278-S279
10. Liu, X., Smits, A., Wang, Y., Wead, S., Kagan, R.J., Healy, D.P., de Cock, P., Allegaert, K., **Sherwin, C.M.** (2017). Dosing Optimization of Amikacin in Pediatric Patients with Burn Injuries and Those with Oncology Conditions. (*ASCPT*), *Washington DC: Clinical Pharmacology & Therapeutics*, 101(S1)
11. Linakis, M.W., Liu, X., Cook, S.F., Kumar, S.S., Wilkins, D.G., Gaedigk, R., Gaedigk, A., **Sherwin, C.M.**, van den Anker, J.N. (2017). UGT1A9 RS3832043 influences acetaminophen glucuronidation in neonates. (*ASCPT*), *Washington, DC: Clinical Pharmacology & Therapeutics*, 101(S1), S8
12. Balch, A.H., Constance, J., Kumar, S.S., Korgenski, E.K., Sherbotie, J.R., Yu, T., **Sherwin, C.M.** (2017). Do physicians change tacrolimus dosing after 90 days? An EMR-based study of therapeutic drug monitoring in transplant patients. (*ASCPT*), *Washington DC: Clinical Pharmacology & Therapeutics*, 101(S1), S56
13. Kumar, S.S., Liu, X., **Sherwin, C.M.**, Jones, B.L. (2017). Determining the Reliability of Histamine response phenotype classification: a population modelling approach. (*ASCPT*), *Washington, DC: Clinical Pharmacology & Therapeutics*, 101(S1)
14. Ivanova, X., Liu, X., Tran, N., Wead, S., Kagan, R.J., Healy, D.P., **Sherwin, C.M.** (2017). Pharmacokinetic Model for Vancomycin in Pediatric Burn Patients. (*ASCPT*), *Washington, DC: Clinical Pharmacology & Therapeutics*, 101(S1)
15. Job, K.M., Sanders, C., Hillyard, B., Rower, J.E., Korgenski, E.K., **Sherwin, C.M.** (2017). Trends of Calcineurin Inhibitor Use in Pediatric Immunosuppression. (*ASCPT*), *Washington, DC: Clinical Pharmacology & Therapeutics*, 101(S1)
16. Liu, X., Jones, B.L., Roberts, J.K., **Sherwin, C.M.** (2017). Population pharmacokinetic/pharmacodynamics modeling of histamine response measured by histamine iontophoresis laser Doppler. (*ASCPT*), *Washington, DC: Clinical Pharmacology & Therapeutics*, 101(S1)
17. Wang, Y., Liu, X., Olson, J., Korgenski, E.K., Thorell, E.A., **Sherwin, C.M.** (2017). Population pharmacokinetic modeling and dosing regimen optimization of intravenous gentamicin in pediatric population. (*ASCPT*), *Washington, DC: Clinical Pharmacology & Therapeutics*, 101(S1)
18. Yu, T., Rower, J.E., Liu, X., Balch, A., Halford, Z., Korgenski, E.K., **Sherwin, C.M.** (2016). Development of a physiologically based Pharmacokinetic model of tacrolimus in adult organ transplant patients. *ASCPT*, *San Diego, CA: Clinical Pharmacology & Therapeutics*, 99, S71-S71
19. Constance, J.E., Stockmann, C., Linakis, M., Balch, A., Korgenski, E.K., Spraker-Perlman, H., Lemons, R., **Sherwin, C.M.** (2016). Use of supportive care therapies among pediatric cancer patients with hematologic malignancies undergoing

- chemotherapy. *ASCPT Pre-conference Challenges in Global Drug Development and Regulation Quantitative Translational Approaches in Oncology*, San Diego, CA: Clinical Pharmacology and Therapeutics. 99, S10
20. Liu, X., Lieh-lai, M.W., Kauffman, R.E., Ward, R.M., **Sherwin, C.M.** (2016). Population pharmacokinetic modeling of morphine and Metabolites in 3-18-year-old children following surgery. *ASCPT*, San Diego, CA: Clinical Pharmacology & Therapeutics.99, (S1)
 21. Liu, X., Balch, A., Dixon, C.L., Costantine, M.M., **Sherwin, C.M.** (2016). Logistic modeling of cord blood magnesium level and cerebral palsy incidence in children with maternal magnesium sulfate dosing. *ASCPT*, San Diego: Clinical Pharmacology & Therapeutics.99, (S1)
 22. Enioutina, E.Y., Balch, A., Wilkes, J., Olsen, J., Thorell, E., Pavia, A.T., **Sherwin, C.M.** (2016). IVIG use among children in freestanding children's hospitals in the United States. *ASCPT*, San Diego: Clinical Pharmacology & Therapeutics.99, (S1)
 23. Linakis, M.W., Cook, S.F., Rower, J.E., Rollins, D.E., **Sherwin, C.M.**, Wilkins, D.G. (2016). Pharmacokinetics and renal clearance of beta-hydroxy-betamethylbutyrate in healthy adults. *ASCPT*, San Diego, CA: Clinical Pharmacology & Therapeutics.99, (S1)
 24. Abdelaziz, S., Yu, T., Stockmann, C., **Sherwin, C.M.**, Constance, J.E., Balch, A. (2016). Changes in pediatric prescribing patterns during Therapeutic drug monitoring of tacrolimus. *ASCPT*, San Diego, CA: Clinical Pharmacology & Therapeutics.99, (S1)
 25. Rower, J.E., Liu, X., Yu, T., Mundorff, M., **Sherwin, C.M.**, Johnson, M. (2016). Population pharmacokinetic modeling of magnesium sulfate for treatment of severe acute asthma in children in an emergency room setting. *ASCPT*, San Diego, CA: Clinical Pharmacology & Therapeutics, 99, S92-S93
 26. Constance, J.E., Stockmann, C., Linakis, M., Balch, A., Korgenski, E.K., Spraker-Perlman, H., Lemons, R., **Sherwin, C.M.** (2016). Use of supportive care therapies among pediatric cancer patients with hematologic malignancies undergoing chemotherapy. *ASCPT*, San Diego, CA: Clinical Pharmacology & Therapeutics, 99, S90-S90.
 27. Wang, Y., Liu, X., Korgenski, E.K., **Sherwin, C.M.** (2016). Population pharmacokinetic modeling of gentamicin in pediatric patients and assessment of age influence. (*ACoP*), Journal of pharmacokinetics and pharmacodynamics, 43, S83-S84
 28. Liu, X., Smits, A., Yu, T., Wead, S., Neely, A.N., Kagan, R.J., Healy, D.P., Allegaert, K., **Sherwin, C.M.** (2016). Amikacin pharmacokinetics in Pediatric patients with burn injuries compared to those with oncology conditions. *World Conference of Pharmacometrics (WCoP)*, Brisbane, Australia. <https://go-wcop.org/2016/amikacin-pharmacokinetics-in-pediatric-patients-with-burn-injuries-compared-to-those-with-oncology-conditions/>
 29. Wang, Y., Liu, X., Constance, J.E., Korgenski, E.K., **Sherwin, C.M.** (2016). Population pharmacokinetic modeling of gentamicin in children diagnosed with cancer. (*AAPS*)
 30. Liu, X., Tak, C., **Sherwin, C.M.**, Shakib, J.H. (2016). Exploring maternal-infant linked influenza antibody kinetics using a unified population model. (*ACoP*), Bellevue, WA. Journal of pharmacokinetics and pharmacodynamics, 43, S82-S83
 31. Liu, X., Yu, T., Dobson, N.R., McEntire, B.L., Ward, R.M., Spigarelli, M.G., Hunt, C.E., **Sherwin, C.M.** (2015). Pharmacokinetic modelling of plasma and salivary caffeine circulation in infants receiving extended caffeine therapy for intermittent hypoxia treatment. (*ACoP*), Crystal City, VA, Crystal City, VA: Journal of Pharmacokinetics and Pharmacodynamics, 42, S95-S96
 32. Yu, T., Sinha, M., Stockmann, C., Hillard, M.A., Spigarelli, M.G., Russell, S.J., **Sherwin, C.M.** (2015). Population pharmacokinetics of glucagon administered by subcutaneous or intradermal route in patients with type 1 diabetes. *European Association for Clinical Pharmacology and Therapeutics (EACPT)*, Spain, Madrid: Clinical Therapeutics, 37(8), e15.
 33. Sinha, M., Yu, T., **Sherwin, C.M.**, Hillard, M.A., Spigarelli, M.G., Russell, S.J. (2015). Comparison of the Intradermal vs. Subcutaneous Delivery of Insulin and Glucagon in T1DM. *American Diabetes Association (ADA) Annual Meeting 2015, Boston, Massachusetts*, Diabetes, 64, A276-A276
 34. Yu, T., Sinha, M., Hillard, M.A., **Sherwin, C.M.**, Russell, S.J., Spigarelli, M.G. (2015). Population Pharmacokinetics of Intradermal versus Subcutaneous Insulin Delivery in Patients with Type 1 Diabetes. *ASCPT*, New Orleans, LA: Clinical Pharmacology & Therapeutics, 97, S48-S49
 35. Stockmann, C., Hersh, A.L., Ampofo, K., Byington, C.L., **Sherwin, C.M.**, Spigarelli, M.G., Pavia, A.T. (2014). National Estimates of Pediatric Infectious Disease Hospitalizations from 1997-2009: An Analysis of the Kids' Inpatient Database. *Infectious Diseases Society of America (IDSA) Annual Meeting, Philadelphia, PA*, Open Forum Infectious Diseases, 1, S4-S4
 36. Kamyar, M., Balch, A., Campbell, S., Robertson, J., **Sherwin, C.M.**, Clark, E.A.S., Spigarelli, M.G., Rose, N. (2014). The Evaluation of Teratogen Information Service Data as it Relates to Prenatal Care. *Society for Gynecologic Investigation, 61st Annual Meeting*, Florence, Italy: Reproductive Sciences, 21(3), 254A-254A.
 37. Yu, T., Schoen, K., Tak, C., Clark, E.A., Varner, M.V., Spigarelli, M.G., **Sherwin, C.M.** (2014). Population Pharmacokinetics of Caffeine and Its Metabolites in Pregnant Women. *ASCPT*, Atlanta, GA: Clinical Pharmacology & Therapeutics, 95, (1) S94-S94
 38. Campbell, S.C., Stockmann, C., **Sherwin, C.M.**, Spigarelli, M.G. (2014). Examination of Gentamicin and Magnesium Sulfate Drug-Drug Interactions in Neonates. *ASCPT*, Atlanta, GA: Clinical Pharmacology & Therapeutics.95, (1)

39. Firth, S.D., Yakub, S.Y., **Sherwin, C.M.**, Korgenski, K., Constance, J.E., Stockmann, C., Balch, A., Spigarelli, M.G. (2014). Therapeutic Monitoring of Vancomycin in Children: Is There a Cost to Non-adherence of Guidelines? *ASCPT*, Atlanta, GA: Clinical Pharmacology & Therapeutics, 95, (1) S56-S56
40. Bhongsatiern, J., **Sherwin, C.M.**, Stockmann, C., Yu, T., Reith, D.M., Desai, P.B., Spigarelli, M.G. (2014). An improved vancomycin dosing strategy in neonates using population pharmacokinetics and simulations to achieve pharmacodynamic target attainment. (*ASCPT*), Atlanta, GA: Clinical Pharmacology & Therapeutics.95, (1)
41. Balch, A.H., Thorell, E., Constance, J., Stockmann, C., Korgenski, K., Spigarelli, M.G., **Sherwin, C.M.** (2014). Factors Influencing Vancomycin Dose Reduction in Neonatal and Pediatric Patients. *ASCPT*, Atlanta, GA: Clinical Pharmacology & Therapeutics, 95, (1) S54-S55
42. Roberts, J.K., **Sherwin, C.M.**, Beachy, J., Ward, R.M., Baserga, M., Spigarelli, M.G. (2014). Pharmacokinetics of Darbepoetin Alfa in the Treatment of Hypoxic-Ischemic Encephalopathy., *ASCPT*, Atlanta, GA: Clinical Pharmacology & Therapeutics, 95, (1) S99-S99
43. Constance, J.E., Balch, A., Stockmann, C., **Sherwin, C.M.**, Spigarelli, M.G. (2014). Characteristics of Pediatric Cancer Patients Receiving Vancomycin. *ASCPT*, Atlanta, GA: Clinical Pharmacology & Therapeutics, 95, S (1) 55-S55
44. Roberts, J., Beachy, J., Yoder, B., Ward, R., **Sherwin, C.M.**, Spigarelli, M.G., DiGeronimo, R., Ohls, R., Walsh, W., Mayock, D., Juul, S., Christensen, R., Baserga, M. (2014). DANCE (Darbe administration in newborns undergoing cooling for encephalopathy): safety and pharmacokinetic trial. *Western Society for Pediatric Research (WSPR)*, Carmel, CA: Journal of Investigation Medicine, 62(1), 210-210
45. Bridges, Z.M., Campbell, S.C., Thomas, K., **Sherwin, C.M.**, Spigarelli, M.G. (2013). Poison Control Center Calls Regarding Exposures to Pregnant and Breastfeeding Women. *13th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology*, SLC, UT: Therapeutic Drug Monitoring, 35(5), 718-719
46. Yu, T., **Sherwin, C.M.**, Balch, A., Ward, R., Spigarelli, M.G. (2013). Population pharmacokinetics of caffeine in neonates and infants to improve therapeutic range attainment. *13th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology*, SLC, UT, SLC, UT: Therapeutic Drug Monitoring, 35(5), 715-715
47. Bhongsatiern, J., Stockmann, C., Yu, T., Reith, D.M., **Sherwin, C.M.**, Desai, P., Spigarelli, M.G. (2013). An External Evaluation of Vancomycin Pharmacokinetics Among Septic Neonates. *13th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology*, SLC, UT: Therapeutic Drug Monitoring, 35(5), 664-664
48. Green, A., Campbell, S.C., Thomas, K., **Sherwin, C.M.**, Spigarelli, M.G. (2013). Medication Exposures during Pregnancy and Breastfeeding. *13th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology*, SLC, UT, SLC, UT: Therapeutic Drug Monitoring, 35(5), 704-704
49. Linakis, M.W., Constance, J., Stockmann, C., Campbell, S., **Sherwin, C.M.**, Spigarelli, M.G. (2013). Frequency of Vancomycin Target Trough Attainment for Cutaneous and Invasive Staphylococcal Infections. *13th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology*, SLC, UT, SLC, UT: Therapeutic Drug Monitoring, 35 (5), 697-697
50. Firth, S.D., Yakub, S.Y., **Sherwin, C.M.**, Constance, J.E., Balch, A., Spigarelli, M.G. (2013). Assessment of Therapeutic Guideline Adherence for Vancomycin Use in Neonates. *13th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology*, SLC, UT: Therapeutic Drug Monitoring, 35(5), 700-700
51. Yu, T., Stockmann, C., Balch, A., **Sherwin, C.M.**, Spigarelli, M.G. (2013). Characteristics and Trends of Vancomycin Clinical Trials Registered in the United States from 1997-2012. *13th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology*, SLC, UT: Therapeutic Drug Monitoring, 35(5), 716-716
52. Stockmann, C., **Sherwin, C.M.**, Spigarelli, M.G. (2013). Published Therapeutic Drug Monitoring Studies: Who Is Supporting Research? *13th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology*, SLC, UT: Therapeutic Drug Monitoring, 35(5), 706-706
53. Stockmann, C., **Sherwin, C.M.**, Constance, J., Campbell, S.C., Linakis, M., Yu, T., Balch, A., Spigarelli, M.G. (2013). Paediatric Under-Representation in Therapeutic Drug Monitoring Studies. *13th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology*, SLC, UT, SLC, UT: Therapeutic Drug Monitoring, 35(5), 674-675
54. Weston, A.S., Constance, J.E., Campbell, S.C., Stockmann, C., Mihalopoulos, N.L., **Sherwin, C.M.**, Spigarelli, M.G. (2013). Dosing Vancomycin in Pediatric Patients with Obesity. *13th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology*, SLC, UT: Therapeutic Drug Monitoring, 35(5), 688-689
55. Firth, S.D., Yakub, S.Y., **Sherwin, C.M.**, Constance, J.E., Balch, A., Spigarelli, M.G. (2013). Therapeutic monitoring of Vancomycin in neonates: Is there a cost to non-adherence of guidelines? *13th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology*, SLC, UT, SLC, UT: Therapeutic Drug Monitoring, 35(5), 681-681
56. Campbell, S.C., McMillin, G., **Sherwin, C.M.**, Spigarelli, M.G. (2013). Thiopurine Methyltransferase Pharmacogenomic Testing: Known but Infrequently Done. *13th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology*, SLC, UT: Therapeutic Drug Monitoring, 35(5), 714-715
57. Constance, J.E., Balch, A., Campbell, S.C., Stockmann, C., **Sherwin, C.M.**, Spigarelli, M.G. (2013). Frequency of achieving the therapeutic range with vancomycin in infants, children, and adolescents. *13th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology*, SLC, UT: Therapeutic Drug Monitoring, 35(5), 674-674

58. **Sherwin, C.M.**, Stockmann, C., Zobell, J.T., McCrory, B., Wisdom, M., Young, D.C., Olson, J., Ampofo, K., Spigarelli, M.G. (2013). A Pharmacokinetic Evaluation of Tobramycin Administered One, Two, and Three Times Daily to Children with Cystic Fibrosis. (*ACoP*), Fort Lauderdale, FL: Journal of Pharmacokinetics and Pharmacodynamics, 40, S131-S131
59. Stockmann, C., **Sherwin, C.M.**, Zobell, J.T., Lubsch, L., Young, D.C., Olson, J., Noyes, B.E., Ampofo, K., Spigarelli, M.G. (2013). Population Pharmacokinetics of Vancomycin Used in the Treatment of Pediatric Cystic Fibrosis Pulmonary Exacerbations. (*ACoP*), Fort Lauderdale, FL: Journal of Pharmacokinetics and Pharmacodynamics, 40, S132-S132
60. Campbell, S.C., **Sherwin, C.M.**, Balch, A.H., Clark, E.A., Spigarelli, M.G. (2013). Examination of intrapartum use of magnesium sulfate and potential drug-drug interactions. *ASCPT*, Indianapolis, Indiana: Clinical Pharmacology & Therapeutics, 93, S20-S20
61. Yakub, S.Y., Campbell, S.C., **Sherwin, C.M.**, Constance, J., Balch, A., Spigarelli, M.G. (2013). Trends of use of vancomycin in neonates. *ASCPT*, Indianapolis, Indiana: Clinical Pharmacology & Therapeutics, 93, S6-S6
62. Bhongsatiern, J., C Stockmann, C., Yu, T., Spigarelli, M.G., **Sherwin, C.M.** (2013). Neonatal population pharmacokinetics and pharmacodynamics modeling of vancomycin to simulate target exposure attainment. *ASCPT*, Indianapolis, Indiana: Clinical Pharmacology & Therapeutics, 93, (S1)
63. Constance, J.E., Campbell, S.C., Linakis, M.W., **Sherwin, C.M.**, Spigarelli, M.G. (2013). Dosing of vancomycin in neonates: on target for the therapeutic range? *American Society for Clinical Pharmacology and Therapeutics*, *ASCPT*, Indianapolis, Indiana: Clinical Pharmacology & Therapeutics, 93, (S1)
64. Fredrickson, J., Balch, A., Campbell, S.C., **Sherwin, C.M.**, Clark, E.A., Spigarelli, M.G. (2013). Intrapartum use of magnesium sulfate and the relationship between maternal and neonatal magnesium blood levels. *ASCPT*, Indianapolis, Indiana: Clinical Pharmacology & Therapeutics, 93, S48-S49
65. Jones, B.L., **Sherwin, C.M.**, Neville, K.A., Spigarelli, M.G., Kearns, G.L., Leeder, J.S. (2012). Evidence of distinct histamine pharmacodynamic phenotypes in children. (*ASCPT*), Baltimore, MA, *Clinical Pharmacology & Therapeutics*, Supplement 1. (March 2012), 91, S28
66. De Cock, R.F.W., Allegaert, K., **Sherwin, C.M.**, de Hoog, M., van den Anker, J.N., Danhof, M., Knibbe, C.A.J. (2012). Maturation of glomerular filtration rate in preterm and term neonates as reflected by clearance of amikacin, netilmicin, and vancomycin. *ASCPT*, Baltimore, MA: Clinical Pharmacology & Therapeutics, 91(Suppl. 1), S28
67. De Cock, R.F.W., Allegaert, K., de Hoog, M., **Sherwin, C.M.**, Danhof, M., Knibbe, C.A.J. (2011). Predicting glomerular filtration rate using the clearance of amikacin in neonates—Model Evaluation. *British Pharmacological Society*, British Journal of Clinical Pharmacology, 72(5), 846-847
68. Zobell, J.T., Stockmann, C., Young, D.C., Cash, J., **Sherwin, C.M.**, Spigarelli, M., Chatfield, B.A., Ampofo, K. (2011). Population pharmacokinetic (PK) and pharmacodynamic (PD) modeling of ticarcillin-clavulanate in pediatric CF patients. *North American Cystic Fibrosis (NAFC) Conference*, Anaheim, CA: Pediatric Pulmonology 46 (34), 311-312
69. Saldana, S.N., **Sherwin, C.M.**, Bies, R.R., Kuijvenhovem, M., Aman, M., Vinks, A.A. (2011). Population Pharmacokinetics of Risperidone Using Sparse and D-Optimal Sampling in Children and Adolescents. Dallas, TX: Clinical Pharmacology & Therapeutics, 89, S56-S57
70. Sagcal-Gironella, A.C., **Sherwin, C.M.**, Tirona, R.G., Rieder, M.J., Brunner, H.I., Vinks, A.A. (2011). Open-label, single dose pharmacokinetic study of prednisolone at steady state in young patients with SLE on prednisone therapy. *European Association for Clinical Pharmacology and Therapeutics (EACPT)*, Budapest, Hungary: Clinical Therapeutics, 33(10), 1524
71. **Sherwin, C.M.**, Sagcal-Gironella, A.C., Fukuda, T., Brunner, H.I., Vinks, A.A. (2010). Development of a population pharmacokinetic model with enterohepatic recirculation for mycophenolic acid in patients with childhood systemic lupus erythmatosus (cSLE). (*ASCPT*), Atlanta, GA, Atlanta, GA: Clinical Pharmacology & Therapeutics, 87, S61-S61
72. Medlicott, N.J., **Sherwin, C.M.**, Broadbent, R., McCaffrey, F., Reith, D.M. (2008). Intravenous Infusions of Gentamicin in Neonate Patients - Effects of Infusion Variables on Drug Administration Rates. *Royal Pharmaceutical Society Conference*, Manchester, UK: Journal of Pharmacy and Pharmacology, 60(26 Suppl.), A11
73. **Sherwin, C.M.**, McCaffrey, F., Broadbent, R.S., Reith DM and Medlicott, N.J. (2008). Investigation into the Intravenous Delivery of Aminoglycoside Antibiotics to Extremely Premature Neonates. *11th Biannual European Society for Developmental Perinatal and Pediatric Pharmacology Congress; Rotterdam, The Netherlands*.

Editorials

1. Allegaert K, **Sherwin CM**. Therapeutic Orphans. The Medicine Maker. Feb 2016
<https://themedicinemaker.com/issues/0216/therapeutic-orphans/>
2. Stockmann C., Constance JE, Roberts JK, **Sherwin C.M**, Spigarelli MG. (2014). How Not to Be a Successful Clinical Pharmacologist. *Journal of Pharmacology & Clinical Toxicology*, 2(2), 1027

Newspapers

Data Center Wins \$25 Million NIH Grant to Find Ways to Improve Clinical Trials
https://healthcare.utah.edu/publicaffairs/news/2016/07/Dean_TrialCenter.php

Video/Film/CD/Web/Podcast

1. **Sherwin, C.M.**, Craig, D., Yellepeddi, V., Rosenthal, L., Morris, M.E. (2018). 9 Times Ibuprofen Won't Work—and Could Be Dangerous by Joanna Chen [Web], Reader's Digest. Available: <https://www.rd.com/health/wellness/times-ibuprofen-wont-work-and-could-be-dangerous/>.
2. Biltaji, E., Biskupiak, J., **Sherwin, C.M.**, McMillin, G., Brixner, D. (2018). The Value of Using Pharmacogenetic Risk Scores in Routine Practice [Web], AMCP Managed Care & Specialty Pharmacy. Available: <http://amcp2018.amcp.org/daily-report/the-value-of-using-pharmacogenetic-risk-scores-in-routine-practice/>.
3. **Sherwin, C.M.**, Morris, M.E. (2018) AAPS Experts in the Media. Did you know. <https://www.aapsnewsmagazine.org/articles/2018/sep18/did-you-know-sep18>
4. **Sherwin, C.M.** (2017). Giving newborns medicine is a dangerous guessing game. Can we make it safer? [Web], Megan Scudellari, STATNews. Available: <https://www.statnews.com/2017/01/03/neonatal-drugs-unapproved/>.
5. Davis, J., Rousseau, R., **Sherwin, C.M.**, Laughon, M. (2017). Here's how to make traditional medicines safer for newborns [Web], Megan Scudellari, STAT. Available: <http://www.businessinsider.com/make-traditional-medicines-safer-for-newborns-2017-1>.
6. **Sherwin, C.M.** (2017). PharmSci 360 Scientific Programming Committee, AAPS PharmSci 360 | Construction Zone <https://www.aapsnewsmagazine.org/articles/2017/dec17/meetings-dec17>
7. Ward, R.M., **Sherwin, C.M.** (2017). Making Medications Safer for Newborns [Web], London: sciencenewsroom@wiley.com. Available: <http://www.wiley.com/WileyCDA/PressRelease/pressReleaseId-128648.html>.

Pending Publications

Books

Edited Books

1. Ene, E., **Sherwin, C.M.**, Bies, R., (Eds.) (*In Press*). *Pharmacometrics: The Science of Quantitative Pharmacology*. (2nd Edition). New York: Wiley-Interscience.

Book Chapters

1. Stockmann, C., Roberts, J.K., Savic, R.M., **Sherwin, C.M.** (*In Press*). Design and analysis of Pediatric Clinical Trials. In Ene, E., **Sherwin, C.M.**, Bies, R., (Eds.), *Pharmacometrics: The Science of Quantitative Pharmacology* (Second edition). New York: Wiley-Interscience.
2. Kumar, S.S., Duong, J.K., Liu, X., **Sherwin, C.M.** (*In Press*). Clinical Trial Simulation. In Ene, E., **Sherwin, C.M.**, Bies, R., (Eds.), *Pharmacometrics: The Science of Quantitative Pharmacology* (Second Edition). New York: Wiley-Interscience.

In Press Peer-Reviewed Journal Articles

Tak CR, Kim J, Gunning K, **Sherwin CM**, Nickman NA, Biskupiak J. Cost-Sharing Requirements for the Herpes Zoster Vaccine in Adults Aged 60+. *The Journal of Pharmacy Technology*

Illamola SM, Birnbaum A, Sherwin CM. Generic Drug Products in Paediatrics: Where Are the Data? *British Journal of Clinical Pharmacology*.

Wang H, **Sherwin CM**, Jogarao VS, Gobburu JVS, Ivaturi V. Population Pharmacokinetic Modeling of Gentamicin in Pediatrics. *The Journal of Clinical Pharmacology*

Radhakrishnan SV, Boyer M, **Sherwin CM**, Zangari M, Tricot G. A phase I/II study of intravenous busulfan as a conditioning regimen for Multiple Myeloma. *Cell Transplantation*

Pending Conference Proceedings

Pending Abstracts

- 1.

Published Abstracts

1. Job, K.M., Murray, D., Motuapuaka, S., Murphy, N., **Sherwin, C.M.** Trends in Clinical Use of Phenol Injections in a Pediatric Physical Medicine and Rehabilitation Clinic [Abstract]. (PAS) Annual Meeting, 2018, Toronto, Canada
2. Smits, A., Liu, X., Wang, Y., Renard, M., Wead, S., Kagan, R.J., Healy, D.P., De Cock, P., **Sherwin, C.M.**, Allegaert K. (2019). Disease condition affects amikacin pharmacokinetics and dosing in children [Abstract]. (PAS) Annual Meeting 2019, Baltimore, MA
3. Rashid, R., Kumar, S.S., Sinha, M., Hillard, M.A., Liu, X., Russell, S.J., **Sherwin, C.M.** (2018). Population pharmacokinetics of subcutaneously- and intradermally-administered glucagon in type 1 diabetic patients [Abstract]. AAPS 2019 PharmSci 360, San Antonio, TX

4. Liu, X., Smits, A., Wang, Y., Renard, M., Wead, S., Kagan, R.J., Healy, D.P., De Cock, P., Allegaert, K., **Sherwin, C.M.** (2018). Disease condition affects amikacin pharmacokinetics and dosing in children [Abstract]. European Academy of Pediatric Societies (EAPS) Paris, France
5. Balch, A.H., Wilkes, J., Olson, J., Thorell, E.A., Pavia, A.T., **Sherwin, C.M.**, Enioutina, E.Y. (2018). IVIG use in pediatric cancer patients [Abstract]. (ACCP) Annual Meeting, Bethesda, MD
6. Kumar, S.S., Liu, X., Illamola, S.M., Rashid, J., Job, K., Balch, A., Rower, J., Sherbotie, J., **Sherwin, C.M.** (2018). Tacrolimus population pharmacokinetics in paediatric kidney transplant patients [Abstract]. PAGE 27. Population Approach Group in Europe. Abstr 8791 [www.page-meeting.org/?abstract=8791], Montreux, Switzerland
7. Becker, S., Job, K., Rower, J., Forbes, T., **Sherwin, C.M.**, Nelson, D., Johnson, M. (2018). Pharmacokinetics of intravenous magnesium sulfate in status asthmaticus: A prospective cross-sectional analysis in a tertiary pediatric emergency department [Abstract]. (PAS) 2018, Toronto, Canada
8. Becker, S., Forbes, T., Job, K., Rower, J., **Sherwin, C.M.**, Nelson, D., Johnson, M. (2018). Repeated Blood Samples for Measurement of Magnesium in Children with Severe Acute Asthma [Abstract]. (PAS) 2018, Toronto, Canada
9. Biltaji, E., Biskupiak, J.E., **Sherwin, C.M.**, McMillin, G.A., Brixner, D.I. (2018). Optimizing the value of pharmacogenetic risk screening among patients with polypharmacy: A healthcare system experience [Abstract]. Academy of Managed Care Pharmacy (AMCP) 2018, Boston, MA
10. Tak, C.R., Kim, J., Gunning, K., Ruble, J., **Sherwin, C.M.**, Nickman, N.A., Biskupiak, J. (2018). Effect of a Prescription Order Requirement for Pharmacist-Administered Vaccination on Zoster Vaccination Rates [Abstract]. Academy of Managed Care Pharmacy (AMCP) 2018, Boston, MA
11. Rashid, J., Vaughns, J.D., Williams, E.F., Liu, X., van den Anker, J., **Sherwin, C.M.** (2018). Population Pharmacokinetic Analysis of Enoxaparin in Obese Adolescents undergoing Bariatric Surgery [Abstract]. (AAPS), San Diego, CA
12. Kumar, S.S., Liu, X., Kahanovitz, L., **Sherwin, C.M.**, Russell, S.J. (2017). Characterizing the absorption differences of insulin analogs using population pharmacokinetic analysis [Abstract]. (AAPS), San Diego, CA
13. Liu, X., Wang, Y., **Sherwin, C.M.** (2017). Developing physiologically based pharmacokinetic models that predict drug exposure of therapeutic monoclonal antibodies for rheumatoid arthritis treatment [Abstract]. ACR/ARHP Annual Meeting
14. Liu, X., Tak, C., **Sherwin, C.M.**, Shakib, J.H. (2017). A Semi-physiological Maternal-infant Model for Influenza Antibody Kinetics and The Impact of Maternal Immunization Effects [Abstract]. (AAPS), San Diego, CA
15. Fateeva, T., Krutivova, N., Krepkova, L., Job, K., Bortnikova, V., **Sherwin, C.M.**, Enioutina, E. (2017). Combating microbial resistance with phytodrugs [Abstract]. Keystone Symposia Conference, Antimicrobials and Resistance: Opportunities and Challenges, Santa Fe, New Mexico
16. Plumage, E.F., Illamola, S.M., **Sherwin, C.M.** (2017). Use of Mycophenolate Mofetil in Pediatric Patients Receiving Heart Transplants [Abstract]. Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)
17. Biltaji, E., Korgenski, E.K., **Sherwin, C.M.**, Constance, J.E. (2017). Voriconazole therapeutic target attainment among pediatric patients [Abstract]. (ACCP) Annual Meeting
18. Muhari-Stark, E., Chen, X., **Sherwin, C.M.**, Wang, Y., Wang, J., Yao, L. (2017). Association of meropenem clearance, covariates, and estimated glomerular filtration rate in neonates [Abstract]. (ACCP) Annual Meeting
19. Illamola, S.M., Young, V., Job, K.M., Balch, A.H., Varner, M.W., **Sherwin, C.M.** (2017). Clinical management of antidepressants during pregnancy [Abstract]. (ACCP) Annual Meeting
20. Rower, J.E., Stockmann, C., Molina, K., **Sherwin, C.M.** (2017). Predicting Future Calcineurin Inhibitor Concentrations in Pediatric Transplant Recipients to Reduce Drug Monitoring Burden [Abstract]. (ACCP) Annual Meeting
21. Enioutina, E.Y., Wilkes, J., Olson, J., Thorell, E.A., Pavia, A.T., **Sherwin, C.M.**, Balch, A.H. (2017). IVIG patterns among Pediatric patients with neoplasms admitted to U.S. Pediatric hospitals [Abstract]. (ACCP) Annual Meeting
22. Tak, C.R., Biltaji, E., Kohlmann, W., Maese, L., **Sherwin, C.M.**, Brixner, D., Schiffman, J. (2017). Cost-effectiveness of an early cancer surveillance strategy for patients with Li-Fraumeni Syndrome [Abstract]. ISPOR 22nd Annual International, Boston, MA
23. Rattler TB Constance, J., **Sherwin, C.M.** (2016). Polypharmacy Among Hospitalized Pediatric Patients with Type 1 Diabetes Mellitus [Abstract]. Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)
24. Ford, T.A., Constance, J.E., **Sherwin, C.M.** (2016). Type 1 Diabetes and The Risk of Kidney Dysfunction Among Children Receiving Intravenous Antibiotics [Abstract]. (PAS) Annual Meeting 2016, Baltimore, MA
25. Molina, K., Rower, J., Stockmann, C., **Sherwin, C.M.** (2016). Predicting Tacrolimus Concentrations in Heart Transplant Recipients Using Population Pharmacokinetic Models [Abstract]. American Heart Association, New Orleans, LA, Circulation 134 (suppl_1), A15207-A15207
26. Liu, X., Tak, C., **Sherwin, C.M.**, Shakib, J.H. (2016). Population modeling of the influence of maternal influenza vaccination on infant immunity [Abstract]. (AAPS)
27. Caston, R., Constance, J.E., Balch, A., Korgenski, E.K., **Sherwin, C.M.** (2016). Vancomycin-associated nephrotoxicity among Pediatric patients with hematologic malignancy [Abstract]. (ACCP) Annual Meeting
28. Balch, A., Yu, T., Constance, J.E., Sherbotie, J., Rower, J., Korgenski, E.K., **Sherwin, C.M.** (2016). Is Generic Tacrolimus Bioequivalent in Patients? [Abstract]. (ACCP) Annual Meeting

29. Constance, J.E., Linakis, M.W., Stockmann, C., Roberts, J.K., **Sherwin, C.M.**, Spigarelli, M.G. (2015). Inpatient polypharmacy among children with leukemia or lymphoma receiving IV antibiotic therapy within the first year from diagnosis [Abstract]. *Translating Cancer Epidemiology, Huntsman Cancer Institute, SLC, UT*
30. Constance, J.E., Rower, J., Stockmann, C., Balch, A., **Sherwin, C.M.**, Spigarelli, M.G. (2015). IV anti-infective use in pediatric patients with cancer [Abstract]. *Translating Cancer Epidemiology, Huntsman Cancer Institute, SLC, Utah*
31. Linakis, M.W., **Sherwin, C.M.**, Roberts, J.K., Spigarelli, M.G., Wilkins, D.G. (2015). Population pharmacokinetics of nicotine delivered from a transdermal matrix patch [Abstract]. *(AAPS), 2015, Orlando, FL*
32. Liu, X., Yu, T., Balch, A.H., Sherbotie, J., Korgenski, E.K., Spigarelli, M.G., **Sherwin, C.M.** (2015). Population Pharmacokinetics of Tacrolimus in Pediatric Patients with Kidney Transplant [Abstract]. *(AAPS), 2015, Orlando, FL*
33. Yu, T., Liu, X., Balch, A.H., Molina, K.M., Constance, J.E., Prevedel, J.A., Korgenski, E.K., Spigarelli, M.G., **Sherwin, C.M.** (2015). Population pharmacokinetics of tacrolimus in pediatric heart transplant patients [Abstract]. *(AAPS), 2015, Orlando, FL*
34. Constance, J.E., Linakis, M.W., Balch, A.H., **Sherwin, C.M.**, Spigarelli, M.G. (2015). Inpatient polypharmacy among children with leukemia or lymphoma receiving IV antibiotic therapy within the first year from diagnosis [Abstract]. *IATDMCT Congress 2015, Rotterdam, The Netherlands*
35. Constance, J.E., Ward, R.M., **Sherwin, C.M.**, Korgenski, K., Spigarelli, M.G. (2015). Nonsteroidal anti-inflammatory drug-associated nephrotoxicity among neonates diagnosed with patent ductus arteriosus [Abstract]. *ACCP, 2015, San Francisco, CA*
36. Balch, A.H., Constance, J.E., **Sherwin, C.M.**, Spigarelli, M.G. (2015). A Retrospective Study of Kidney Injury vs. Vancomycin Use by Age [Abstract]. *(ACCP), 2015, San Francisco, CA*
37. Balch, A., Green, T., Hansen, C., **Sherwin, C.M.** (2015). Practical Issues in Calculating Sample Size for Ordinal Data with Repeated Measures [Abstract]. *Joint Statistical Meeting (JSM) 2015, Seattle, WA*
38. Schiffman, J.D., Kirchhoff, A.C., Spigarelli, M.G., Kaul, S., Smits-Seemann, R., **Sherwin, C.M.**, Constance, J.E., Brenna Eldridge, B., Fluchel, M., Christenson, C.P., Garfield, K., Mason, C.C., Korgenski EK. Knackstedt, E.D., Blaschke, A., Raetz, E.A., Lemons, R.S., Clark, E.B. (5/29/2015). Building a comprehensive, value-based resource for childhood cancer in Utah [Abstract]. *American Society of Clinical Oncology (ASCO) Annual Meeting Chicago, Illinois, 2015*
39. Constance, J.E., Balch, A.H., Enioutina, E.Y., Stockmann, C., Linakis, M., **Sherwin, C.M.**, Spigarelli, M.G. (2015). Polypharmacy among hospitalized pediatric cancer patients [Abstract]. *ASCP 2015*
40. Stockmann, C., Hersh, A.L., **Sherwin, C.M.**, Spigarelli, M.G., Frymoyer, A. (2015). Targeting Vancomycin AUC in Neonates - A Model-Based Bayesian Approach for Personalized Therapeutic Drug Monitoring [Abstract]. *ASCP 2015*
41. Bhongsatiern, J., Stockmann, C., Yu, T., Moorthy, G., Constance, J.E., Spigarelli, M.G., Desai, P.B., **Sherwin, C.M.** (2015). Renal function descriptors in neonates: Which creatinine-based equation best describes vancomycin clearance? [Abstract]. *ASCP 2015*
42. Enioutina, E.Y., Constance, J.E., Balch, A.H., **Sherwin, C.M.**, Spigarelli, M.G. (2015). Vaccination patterns among pediatric cancer patients treated with vancomycin [Abstract]. *ASCP 2015*
43. Balch, A.H., Constance, J.E., **Sherwin, C.M.**, Spigarelli, M.G. (2015). The Effect of tyrosine kinase inhibitors on pediatric growth [Abstract]. *ASCP 2015*
44. Prevedel, J.A., Constance, J.E., **Sherwin, C.M.**, Spigarelli, M.G. (2015). Patterns of Tacrolimus Use in Pediatric Heart Transplant Recipient [Abstract]. *(PAS) Annual Meeting, 2015, San Diego, CA*
45. Campbell, S.C., Johnson-Davis, K.L., Linakis, M.W., McMillin, G.A., **Sherwin, C.M.**, Spigarelli, M.G. (2014). Evaluating the Relationship of Age and Thiopurine Metabolites in Pediatrics [Abstract]. *(AAPS), San Diego, CA*
46. Linakis, M.W., Stockmann, C., Campbell, S.C., Williams, R.V., Burch, P.T., Lambert, L.M., **Sherwin, C.M.**, Reilly, C.A., Spigarelli, M.G. (2014). A Novel Sensitive and Specific Liquid Chromatography-Tandem Mass Spectrometry (LC-MS-MS) Method for the Quantification of Oxandrolone in Human Plasma [Abstract]. *(AAPS), San Diego, CA*
47. Clements, N., Constance, J.E., Yu, T., Campbell, S.C., Linakis, M., **Sherwin, C.M.**, Spigarelli, M.G. (2014). Therapeutic drug monitoring and target vancomycin attainment among pediatric patients undergoing hemodialysis [Abstract]. *(AAPS), San Diego, CA*
48. Yu, T., Stockmann, C., Constance, J.E., Korgenski, E.K., Spigarelli, M.G., **Sherwin, C.M.** (2014). Population Pharmacokinetics and Dosing Regimen Optimization of Intravenous Vancomycin in Infants [Abstract]. *(AAPS), San Diego, CA*
49. Constance, J.E., **Sherwin, C.M.**, Korgenski EK. Spigarelli, M.G., (2014). Intravenous meropenem use among pediatric patients with and without cancer [Abstract]. *AAPS), San Diego, CA*
50. Sneddon, J.R., Campbell, S.C., Balch, A.H., **Sherwin, C.M.**, Spigarelli, M.G. (2014). Trends of KRAS Pharmacogenomic Testing for Cetuximab and Panitumumab [Abstract]. *AAPS), San Diego, CA*
51. Bhongsatiern, J., **Sherwin, C.M.**, Yu, T., Stockmann, C., Allegaert, K., Knibbe, C.A.J., Reith, D.M., Desai, P.B., Spigarelli, M.G. (2014). Development of Vancomycin Dosing Recommendations in Preterm and Term Neonates using Population Pharmacokinetic Modeling and Simulation [Abstract]. *(ACoP), Las Vegas, NV. Journal of Pharmacokinetics and Biopharmaceutics 41, S46-S46*

52. Cook, S.F., **Sherwin, C.M.**, Williams, E.F., Roberts, J.K., King, A.D., Deutsch, N., Samiee-Zafarghandy, S., Mankala, S., Wilkins, D.G., van den Anker, J.N. (2014). Population pharmacokinetics of intravenous acetaminophen in preterm and term neonates [Abstract]. (*ACoP*), Las Vegas, NV. *Journal of pharmacokinetics and pharmacodynamics* 41, S13-S14
53. Yu, T., Campbell, S.C., Stockmann, C., Clark, E.A.S., Varner, M.W., Spigarelli, M.G., **Sherwin, C.M.** (2014). Pharmacokinetic Changes of Caffeine during Pregnancy and Simulation of Pregnant Population [Abstract]. (*ACoP*), Las Vegas, NV
54. Baserga, M., Beachy, J., Yoder, B.A., Ward, R.M., Roberts, J.K., **Sherwin, C.M.**, Spigarelli, M.G., DiGeronimo, R., Ohls, R., Walsh, W., Mayock, D., Juul, S.E., Christensen, R. (2014). DANCE (Darbe Administration in Newborns Undergoing Cooling for Encephalopathy: Safety and Pharmacokinetic Trial. American Academy of Pediatrics [Abstract]. *American Academy of Pediatrics (AAP) National Conference and Exhibition, San Diego, CA*
55. Balch, A.H., Constance, J.E., **Sherwin, C.M.**, Spigarelli, M.G. (2014). Pediatric Cancer Patients Receiving Gentamicin and Vancomycin Receive Higher Doses and More Combination Therapy [Abstract]. *American Academy of Pediatrics (AAP) National Conference and Exhibition, San Diego, CA*
56. Linakis, M.W., Campbell, S.C., Stockmann, C., Johnson-Davis, K.L., McMillin, G.A., Balch, A.H., **Sherwin, C.M.**, Spigarelli, M.G. (2014). Frequency of Thiopurine Metabolite Tests with Clinically Important Results Requiring Modifications to Therapy [Abstract]. *American Academy of Pediatrics (AAP) National Conference and Exhibition, San Diego, CA*
57. Roberts, J.K., Ward, R.M., Beachy, J., Baserga, M., Spigarelli, M.G., **Sherwin, C.M.** (2014). Population pharmacokinetics of darbepoetin alfa for the treatment of neonatal hypoxic-ischemic encephalopathy [Abstract]. (*ACoP*), Las Vegas, NV. *Journal of pharmacokinetics and pharmacodynamics* 41, S44-S44
58. Stockmann, C., **Sherwin, C.M.**, Spigarelli, M.G. (2014). zscore – An R Package for Deriving Weight and Height for Age Z Scores and Exact Percentiles from Birth to 20 Years of Age [Abstract]. (*ACoP*), Las Vegas, NV. *Journal of pharmacokinetics and pharmacodynamics* 41, S45-S46
59. Constance, J.E., Balch, A.H., **Sherwin, C.M.**, Spigarelli, M.G. (2014). Patterns of Gentamicin Use Among Pediatric Cancer Patients [Abstract]. (*ACCP Annual Meeting. Clinical Pharmacology in Drug Development* 3, 19-2
60. Linakis, M.W., Campbell, S.C., Stockmann, C., Johnson-Davis, K.L., McMillin, G.A., **Sherwin, C.M.**, Spigarelli, M.G. (2014). Regional Differences in Thiopurine Methyltransferase Activity [Abstract]. (*ACCP Annual Meeting. Clinical Pharmacology in Drug Development* 3, 17
61. Han, H., Constance, J.E., **Sherwin, C.M.**, Korgenski, E.K., Spigarelli, M.G. (2014). Evaluation of disparities in achieving therapeutic recommendations among pediatric patients receiving gentamicin [Abstract]. (*ACCP Annual Meeting. Clinical Pharmacology in Drug Development* 3, 18-19
62. De Cock, R.F.W., Allegaert, K., Brussee, J., **Sherwin, C.M.**, Mulla, H., de Hoog, M., van den Anker, J.N., Danhof, M., Knibbe, C.A.J. (2014). Simultaneous pharmacokinetic modeling of gentamicin, tobramycin, and vancomycin clearance from neonates to adults: towards a semi-physiological function for maturation in glomerular filtration [Abstract]. *PAGE 23. Population Approach Group in Europe. Abstr 3167. www.page-meeting.org/?abstract=3167*, Alicante, Spain
63. Yu, T., Balch, A.H., Spigarelli, M.G., **Sherwin, C.M.** (2014). Population Pharmacokinetics/Pharmacodynamics of Intravenous Vancomycin in Adolescent Patients [Abstract]. *Pediatric Academic Societies & Asian Society for Pediatric Research Joint Meeting, Vancouver, Canada*
64. Stockmann, C., Hersh, A.L., Pavia, A.T., Byington, C.L., Blaschke, A.J., **Sherwin, C.M.**, Spigarelli, M.G., Ampofo, K. (2014). National Trends in Pediatric Pyogenic Arthritis and Osteomyelitis, 1997 – 2009 [Abstract]. *Pediatric Academic Societies & Asian Society for Pediatric Research Joint Meeting, Vancouver, Canada*
65. Campbell, S.C., Johnson-Davis, K., McMillin, G.A., **Sherwin, C.M.**, Spigarelli, M.G. (2014). Trends of Pediatric and Adolescent TPMT Pharmacogenomic Testing [Abstract]. *Pediatric Academic Societies & Asian Society for Pediatric Research Joint Meeting, Vancouver, Canada*
66. Campbell, S.C., Johnson-Davis, K., Linakis, M.W., Roberts, J.K., McMillin, G.A., **Sherwin, C.M.**, Spigarelli, M.G. (2014). Evaluating the Relationship of Age and Thiopurine Methyltransferase Activity [Abstract]. *Pediatric Academic Societies & Asian Society for Pediatric Research Joint Meeting, Vancouver, Canada*
67. Constance, J.E., Campbell, S.C., Stockmann, C., Balch, A.H., Korgenski, E.K., **Sherwin, C.M.**, Spigarelli, M.G. (2014). Incidence of acute kidney injury among vancomycin-treated children with hematologic malignancies [Abstract]. *Pediatric Pharmacogenomics and Personalized Medicine Conference, Kansas City, MO*
68. Roberts, J.K., **Sherwin, C.M.**, Beachy, J., Ward, R.M., Baserga, M., Spigarelli, M.G. (2014). Pharmacokinetics of Darbepoetin Alfa in the Treatment of Hypoxic-Ischemic Encephalopathy [Abstract]. *Pediatric Pharmacogenomics and Personalized Medicine Conference, Kansas City, MO, Encore.*
69. Yu, T., **Sherwin, C.M.**, Stockmann, C., Spigarelli, M.G. (2013). Evolution of Vancomycin Clinical Trials and Development of New Antibiotic Therapies for Resistant Gram-Positive Bacterial Infections in the United States from 1999 to 2012 [Abstract]. (*AAPS*), San Antonio, TX
70. Bhongsatiern, J., **Sherwin, C.M.**, Stockmann, C., Yu, T., Reith, D.M., Desai PB Spigarelli, M.G. (2013). Use of Monte Carlo Simulation to Evaluate Vancomycin Dosing Regimens in Neonates [Abstract]. (*AAPS*), San Antonio, TX
71. Yu, T., Stockmann, C., **Sherwin, C.M.**, Olson, J., Healy, D., Spigarelli, M.G. (2013). Determination of an Optimal Amikacin Dosing Regimen for Pediatric Burn Patients [Abstract]. (*AAPS*), San Antonio, TX
72. Constance, J.E., Balch, A., Campbell, S.C., Stockmann, C., **Sherwin, C.M.**, Spigarelli, M.G. (2013). Nephrotoxicity associated with vancomycin use in a pediatric population [Abstract]. (*AAPS*), San Antonio, TX

73. Campbell, S.C., Linakis, M.W., Tak, C.R., McMillin, G., **Sherwin, C.M.**, Spigarelli, M.G. (2013). Clinical Utilization of Pharmacogenomic Testing: What is it for Drugs with Strong Recommendations? [Abstract]. (AAPS), San Antonio, TX
74. Firth, S.D., Yakub, S.Y., **Sherwin, C.M.**, Korgenski, K., Constance, J.E., Stockmann, C., Balch, A., Spigarelli, M.G. (2013). Therapeutic Monitoring of Vancomycin in Children: Is There a Cost to Non-adherence of Guidelines? [Abstract]. (AAPS), San Antonio, TX
75. Schoen, K., Constance, J., **Sherwin, C.M.**, Ward, R., Spigarelli, M.G. (2013). Determination of Vancomycin Induced Nephrotoxicity in Neonates with Patent Ductus Arteriosus [Abstract]. (AAPS), San Antonio, TX
76. Firth, S.D., Yakub, S.Y., **Sherwin, C.M.**, Korgenski, K., Constance, J.E., Stockmann, C., Balch, A., Spigarelli, M.G. (2013). Assessment of Guideline Adherence for Pediatric Vancomycin Use [Abstract]. (AAPS), San Antonio, TX
77. Spigarelli, M.G., Healy, D., Buterbaugh, W., Gottschlich, M.M., Kagan, R., **Sherwin, C.M.** (2013). Rapid Repeat Dosing of Zolpidem - Apparent Kinetic Change Between Doses [Abstract]. PAGE 22. Population Approach Group in Europe. Abstr 2943. www.page-meeting.org/?abstract=2943, Glasgow, Scotland
78. **Sherwin, C.M.**, Jones, B., Leeder, J.S., Neville, K.A., Kearns, G.L., Spigarelli, M.G. (2013). Dense Data - Methods to Handle Massive Data Sets without Compromise [Abstract]. PAGE 22. Population Approach Group in Europe. Abstr 2942. www.page-meeting.org/?abstract=2942. Glasgow, Scotland
79. **Sherwin, C.M.**, Constance, J.E., Spigarelli M, G. (2013). Comparison of Serum Vancomycin Concentrations in a Paediatric Population pre- and post- 2009 IDSA Guideline Recommendations. [Abstract]. In: 14th Biannual Congress of the European Society for Developmental Perinatal and Pediatric Pharmacology (ESDPPP). Salzburg, Austria, 04.-07.06.2013. Düsseldorf: German Medical Science GMS Publishing House;2013. DocPP55.DOI: 10.3205/13esdppp82, URN: urn:nbn:de:0183-13esdppp823
80. **Sherwin, C.M.**, Stockmann, C., Healy, D., Buterbaugh, W., Gottschlich, M.M., Spigarelli, M.G., Kagan, R. (2013). Population Pharmacokinetics of Zolpidem among Children with Severe Burn Injuries. [Abstract]. In: 14th Biannual Congress of the European Society for Developmental Perinatal and Pediatric Pharmacology (ESDPPP). Salzburg, Austria, 04.-07.06.2013. Düsseldorf: German Medical Science GMS Publishing House; 2013.DocFP13.DOI: 10.3205/13esdppp13, URN: urn:nbn:de:0183-13esdppp133
81. Doll, E., Wilkes, J., **Sherwin, C.M.**, Srivastava, R., Faix, R., Spigarelli, M.G., Clark, E.A.S., Bonkowsky, J. (2013). Neonatal Magnesium Levels Correlate with Improved Neurological Outcomes in Premature Infants [Abstract]. (PAS) Annual Meeting, Washington DC
82. Constance, J., Durbano, D., Campbell, S.C., **Sherwin, C.M.**, Balch, A., Spigarelli, M.G. (2013). Nephrotoxicity Associated with Vancomycin Use in a Neonatal Population [Abstract]. PAS) Annual Meeting, Washington DC
83. Stockmann, C., **Sherwin, C.M.**, Campbell, S.C., Linakis, M., Constance, J., Balch, A., Spigarelli, M.G. (2013). Characteristics of Maternal-Fetal Pharmacology Studies Registered in the United States through ClinicalTrials.gov [Abstract]. (PAS) Annual Meeting, Washington DC
84. Green, A.A., Campbell, S.C., **Sherwin, C.M.**, McMillin, G.A., Spigarelli, M.G. (2013). Pharmacogenomic Testing Trends in Pediatric Patients [Abstract]. (PAS) Annual Meeting, Washington DC
85. **Sherwin, C.M.**, Wead S, Stockmann CR, Healy D, Spigarelli MG, Neely, A. (2013). Amikacin Population Pharmacokinetics Associated with Pediatric Burn Patients [Abstract]. Pediatric Academic Societies (PAS) Annual Meeting, Washington DC
86. Campbell, S.C., McMillin, G.A., **Sherwin, C.M.**, Spigarelli, MG. (2013). Thiopurine Methyltransferase Pharmacogenomic Test Utilization in Pediatrics [Abstract]. Pediatric Academic Societies (PAS) Annual Meeting, Washington DC
87. Yakub, S.Y., Campbell, S.C., **Sherwin, C.M.**, Constance, J., Balch, A., Spigarelli, M.G. (2013). Prolonged Vancomycin Use in a Pediatric Population [Abstract]. (PAS) Annual Meeting Washington D
88. Linakis, M., Constance, J., Bailey, S., Stockmann, C., Campbell, S.C., Balch, A., **Sherwin, C.M.**, Spigarelli, M.G. (2013). Role of MRSA and Coagulase-Negative Staphylococcus Bacteremia in the Increasing Use of Vancomycin.<http://www.healio.com/pediatrics/emerging-diseases/news/online/%7B323e9862-f13f-4310-bf57-13da6a267ab1%7D/vancomycin-use-increased-despite-modest-increase-and-coagulase-negative-staphylococcus> [Abstract]. (PAS) Annual Meeting, Washington DC
89. Balch, A., Stockmann, C., Constance, J., Yu, T., Campbell, S.C., **Sherwin, C.M.**, Spigarelli, M.G. (2013). Therapeutic Monitoring of Vancomycin Concentrations and Healthcare Provider Response to High and Low Troughs. [Abstract]. (PAS) Annual Meeting, Washington DC.
90. Campbell, S.C., McMillin, G.A., **Sherwin, C.M.**, Spigarelli, M.G. (2013). Pharmacogenomic Testing Trends in Adolescents [Abstract]. Pediatric Pharmacogenomics and Personalized Medicine Conference, Kansa City, MO
91. Campbell, S.C., **Sherwin, C.M.**, McMillin, G.A., Spigarelli, M. (2012). Understanding the Use and Trends of Pharmacogenomic Testing [Abstract]. (AAPS), Chicago, IL
92. Dowse, B., Campbell, S., **Sherwin, C.M.**, Spigarelli, M. (2012). Trends in use and monitoring of vancomycin in pediatric patients. [Abstract]. (ACCP) Annual Meeting. Clinical Pharmacology in Drug Development 1 (4), 189
93. Burch, P., Minich, L.L., Spigarelli, M., Lambert, L., **Sherwin, C.M.**, Williams, R.V. (2012). Use of Oxandrolone to Promote Growth in Neonates with Complex Congenital Heart Disease: An Open-Label Pilot Trial. [Abstract]. American Academy of Pediatrics (AAP) National Conference and Exhibition Congenital Heart Disease. 7(5):494-495
94. De Cock, R.F.W., Allegaert, K., **Sherwin, C.M.**, de Hoog M, van den Anker JN, Danhof M, Knibbe CAJ. (2011). Glomerular filtration rate in preterm and term neonates reflected by clearance of different antibiotics. Dutch Society for Clinical

- Pharmacology and biopharmacy, annual meeting ...Dutch Society for Clinical Pharmacology and biopharmacy, annual meeting. Lunteren, The Netherlands
95. De Cock, R.F.W., Allegaert, K., **Sherwin, C.M.**, de Hoog M, van den Anker JN, Danhof M, Knibbe CAJ. (2011). Maturation of GFR in preterm and term neonates reflected by clearance of different antibiotics [Abstract]. *PAGE 20. Population Approach Group in Europe. Abstr 2096. www.page-meeting.org/?abstract=2096. Athens, Greece.*
 96. Saldana, S.N., **Sherwin, C.M.**, Bies RR, Kuijvenhovem M, Aman M, Vinks AA. (2010). Population Pharmacokinetics of Risperidone Using Sparse and D-Optimal Sampling in Children and Adolescents. [Abstract]. *Pediatric Pharmacogenomics and Personalized Medicine Conference, Encore.*
 97. Reith, D.M., Owens, K., Svahn, S., Broadbent, R.S., Medlicott, N.J., **Sherwin, C.M.** (2009). Pharmacokinetic Pharmacodynamic study of hearing impairment in neonates treated with aminoglycosides using a logistic regression model [Abstract]. *Basic & Clinical Pharmacology & Toxicology, 105(Suppl 1), 131.*
 98. Owen, K., **Sherwin, C.M.**, Medlicott, N.J., Reith.M., Broadbent, R. (2008). Evaluating Gentamicin and Ototoxicity in Neonates to Optimize Development of a New Dosing Regimen [Abstract]. *PAGANZ 08; Abstract 1077, Population Approach Group of Australian and New Zealand, Dunedin, New Zealand.*
 99. Owens, K., **Sherwin, C.M.**, Reith, D.M., Medlicott, N.J. (2008). Evaluating Gentamicin and Ototoxicity in Neonates to Optimize Development of a New Dosing Regimen [Abstract]. *New Zealand Medical Journal, 121(1274).*
 100. McCaffrey, F., **Sherwin, C.M.**, Broadbent, R., Reith, D.M., Medlicott, N.J. (2008). What's in Delivery? [Abstract]. *Proceedings of the New Zealand Neonatal Conference; Hamilton, New Zealand*
 101. Broadbent, R., **Sherwin, C.M.**, Kostan, E., Medlicott, N.J., Reith, D.M. (2008). The Effect Upon Volume of Distribution of Intravenous Volume Expanders Delivered to Neonates Treated with Gentamicin for Suspected Sepsis. Proceedings of the 2nd Congress of the European Academy of Pediatrics; Nice, France [Abstract]. *Archives of Disease in Childhood, 93(Supplement 2), espn31.*
 102. Owens, K., **Sherwin, C.M.**, Medlicott, N.J., Reith, D.M. (2008). Investigation of Hearing Impairment in Neonates Treated with Aminoglycosides [Abstract]. *Otago Medical Research Foundation Meeting, Summer Studentships, Dunedin; New Zealand*
 103. **Sherwin, C.M.**, Medlicott, N.J., Broadbent, R.S., Reith, D.M. (2008). Simulation and development of a netilmicin extended dosing regimen for extremely premature neonates [Abstract]. *PAGE 17. Population Approach Group in Europe. Abstr 1241. www.page-meeting.org/?abstract=1241. Marseille, France*
 104. **Sherwin, C.M.**, Svahn, S., Van der Linden, A.J., Medlicott, N.J., Broadbent, R.S., Reith, D.M. (2008). Simulation of an optimal pharmacokinetic and pharmacodynamic amikacin dosing regimen for neonates. [Abstract]. *PAGANZ 08; Population Approach Group of Australian and New Zealand, Dunedin, New Zealand*
 105. **Sherwin, C.M.**, Svahn, S., Medlicott, N.J., Broadbent, R.S., Reith, D.M. (2008). Pharmacodynamic analysis of hearing-impaired neonates treated with amikacin. [Abstract]. *(ACoP), Tucson, AZ*
 106. **Sherwin, C.M.**, Svahn, S., Van der Linden, A.J., Medlicott, N.J., Broadbent, R.S., Reith, D.M. (2007). A Pharmacokinetic/Pharmacodynamic Model to Determine Optimal Dosing Targets for Amikacin in Neonatal Sepsis [Abstract]. *PAGE 16. Population Approach Group in Europe. Abstract 1134, www.page-meeting.org/?abstract=1134. Copenhagen, Denmark*
 107. **Sherwin, C.M.**, Kostan, E., Medlicott, N.J., Broadbent, R.S., Reith, D.M. (2007). The Effect Upon V of IV Volume Expanders Delivered to Neonates Treated with Gentamicin for Suspected Sepsis [Abstract]. *Australasian Society of Clinical and Experimental Pharmacology and Toxicology, Auckland, New Zealand*
 108. Broadbent, R., **Sherwin, C.M.**, Young, S., Worth, J., McCaffrey, F., Medlicott, N.J., Reith DM (2007). Utility of IL-12 and IL-10 in Comparison with Other Cytokines and Acute Phase Reactants on Day Three of Suspected Neonatal Sepsis [Abstract]. *World Congress of Perinatology, Florence, Italy*
 109. Broadbent, R., **Sherwin, C.M.**, Young, S., Worth, J., McCaffrey, F., Medlicott, N.J., Reith DM (2007). Utility of IL-12 and IL-10 in Comparison with Other Cytokines and Acute Phase Reactants in the Initial workup of Suspected Neonatal Sepsis [Abstract]. *British Pediatric Society; Isle of Man, UK*
 110. **Sherwin, C.M.**, Broadbent, R.S., Reith, D.M. (2006). A Pilot Study of Cytokines as Indicators of Pharmacokinetic Change for Gentamicin in Septic Neonates [Abstract]. *PAGANZ 06, Population Approach Group of Australian and New Zealand, Auckland, New Zealand*
 111. **Sherwin, C.M.**, Svahn, S., Medlicott, N.J., Broadbent RS and Reith, D.M. (2006). Netilmicin to Amikacin in Neonates...Was the Change Good [Abstract]. *Australasian Society of Clinical and Experimental Pharmacologist, Auckland, New Zealand*
 112. Reith, D.M., **Sherwin, C.M.**, Svahn, S., Medlicott, N.J., Broadbent, R. (2006). Netilmicin to Amikacin in Neonates...Was the Change Good? [Abstract]. *Annual Meeting of the South Island Neonatal Group, Christchurch, New Zealand*
 113. **Sherwin, C.M.**, Svahn, S., Medlicott, N.J., Broadbent, R.S., Reith, D.M. (2006). Population pharmacokinetics of amikacin in extremely low birth weight to term neonates. [Abstract]. *American Association of Pharmaceutical Scientists, San Antonio, TX*
 114. **Sherwin, C.M.**, Broadbent RS, and Reith, D.M. (2005). Evaluation of the pharmacokinetics of netilmicin in neonates with suspected or proven sepsis [Abstract]. *Proceedings of the joint conference of the Australasian Society of Clinical and Experimental Pharmacology and Toxicology and the Australian Pharmaceutical Science Association*

Oral Presentations

Keynote/Plenary Lectures

International

- 2017 Presentation at the International Conference, **Sherwin CM**. "What can we learn from population modelling and what do modelers need from clinicians." European Society for Developmental, Perinatal, and Pediatric Pharmacology (ESDPPP). June 23, 2017, Leuven, Belgium
- 2015 Featured Speaker - Paediatric Pharmacotherapy – YOUNG HOTSHOTS throughout the WORLD. Title: Novel Therapeutic Approaches for Pediatric Cancer. European Society for Developmental, Perinatal, and Paediatric Pharmacology (ESDPPP) Congress, June 24, 2015, Belgrade, Serbia

Meeting Presentations (Not Published Abstracts and Not Unpublished Posters)

International

- 2019 Presentation at the International Conference. **Sherwin CM**. Title How to select datasets for external evaluation, Use of modeling in all stages of life. European society for developmental perinatal and paediatric pharmacology (ESDPPP), 2019, Basel, Switzerland
- 2018 Symposium on Innovation in Microsampling for Drug Dosing. **Sherwin CM**. Title "Building collaborative networks and expanding the scope of microsampling" Brisbane, Australia
- 2018 Presentation at the International Conference. **Sherwin CM**. Title "Developing Precision Medicine Approaches in Paediatric Populations" ASCEPT NZ, Queenstown, New Zealand
- 2018 Presentation at the International Conference. **Sherwin CM**. Title "From mother to child and their ontogeny with a focus on antifungal drugs" 20th Congress of the International Society for Human and Animal Mycology, ISHAM 2018, Amsterdam, The Netherlands
- 2018 Presentation at the International Conference. **Sherwin CM**. Symposium 9 Title "Population Approaches to Minimizing Variability in Exposure in Pediatric Patients" (ACCP) Annual Meeting, Bethesda, MD
- 2018 Presentation at the International Conference. **Sherwin CM**. ACCP Annual Meeting - Pre-meeting Workshop. Title "Pharmacokinetic Sampling: Sample Size Considerations/Oppportunistic Methods, Blood Volume & Bioanalytical Assays" Bethesda, MD
- 2018 Presentation at the International Conference. **Sherwin CM**. Moving Forward in Pediatric Therapeutics: The Roles of Academia, Industry, and Government, Symposium, ASCPT Annual Meeting, Orlando, Florida
- 2018 Presentation at the International Conference. **Sherwin CM**. Title "Pharmacometrics in Children: Application of clinical pharmacology to determine the right dose" National Conference of Chinese Pediatric Society, Xia Men, China
- 2018 Presentation at the International Conference. **Sherwin CM**. Symposium 9. Title "Evaluation and integration of dosing tools in special populations" IATDMCT 2018, Brisbane, Australia
- 2018 Morning Roundtable. **Sherwin CM**. Title "The pros and cons of dose scaring and dosing errors in children" IATDMCT 2018, Brisbane, Australia
- 2016 Presentation at the International Conference. **Sherwin CM**. Australasian Society of Clinical and Experimental Pharmacologist (NZ). 2016, Pharmacometrics Symposium. Title "Proof is in the pudding: Body size and body composition really works " Nelson, New Zealand
- 2016 Presentation at the International Conference. **Sherwin CM**. World Conference of Pharmacometrics (WCoP). 2016. Symposium 5: Pharmacometric approaches to optimize dose selection. Leaping from plasma and saliva PK to optimize dose selection for optimal drug use in neonates. Brisbane, Australia
- 2015 Presentation at the International Conference. **Sherwin CM**. Symposium Pediatrics II. Inpatient polypharmacy among children with leukemia or lymphoma receiving IV antibiotic therapy within the first year from diagnosis. 14th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology, Rotterdam, The Netherlands
- 2013 Presentation at the International Conference, **Sherwin CM**. Symposium S2601: Challenges of Therapeutic Drug Monitoring (TDM) in Pediatrics. 13th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology, SLC, UT
- 2013 Presentation at the International Conference, **Sherwin CM**. Population Pharmacokinetics of Zolpidem Among Children with Severe Burn Injuries. 14th Biannual Congress of the European Society for Developmental Perinatal and Pediatric Pharmacology (ESDPPP). Salzburg, Austria
- 2008 Presentation at the International Conference, **Sherwin CM**. Investigation into the Intravenous Delivery of Aminoglycoside Antibiotics to Extremely Premature Neonates. European Society for Developmental, Perinatal, and Pediatric Pharmacology (ESDPPP). Rotterdam, The Netherlands.

National

- 2017 Presentation at Third Annual FDA-INC Neonatal Scientific Workshop. **Sherwin CM**. Title: "INC utility of neonatal laboratory and big-data."

- 2016 Presentation at the University of Utah/Johns Hopkins University Trial Innovation Centers Meeting, **Sherwin CM**. Title "Pharmacology and Modeling"
- 2016 Presentation at FY 2016 Regulatory Science Initiatives Part 15 Public Meeting. Food and Drug Administration (FDA). **Sherwin CM**. Generic Drug initiatives in Pediatrics.
- 2014 Presentation at National Meeting, **Sherwin CM**. Poster Presentation Skills. Student & Trainee Session. (ACCP) Annual Meeting, Atlanta, GA
- 2008 Presentation at National Conference, **Sherwin CM**. What's in Delivery? New Zealand Neonatal Conference. Hamilton, New Zealand.
- 2008 Presentation at National Conference, **Sherwin CM**. Simulation of an Optimal Pharmacokinetic and Pharmacodynamic Amikacin Dosing Regimen for Neonates. Population Approach Group, Australia and New Zealand. (2008) PAGANZ 08. Dunedin, New Zealand. Available online from www.page-meeting.org/?abstract=1077.
- 2008 Presentation at National Conference, **Sherwin CM**. Evaluating Gentamicin and Ototoxicity in Neonates to Optimize Development of a New Dosing Regimen. In Proceedings of the annual scientific meeting of the Australasian Society of Clinical and Experimental Pharmacologist (NZ). Queenstown, New Zealand.
- 2007 Presentation National Meeting, **Sherwin CM**. The effect Upon V of IV Volume Expanders Delivered to Neonates Treated with Gentamicin for Suspected Sepsis. Annual scientific meeting of the Australasian Society of Clinical and Experimental Pharmacology and Toxicology (NZ). Auckland, New Zealand.
- 2006 Presentation at National Conference, **Sherwin CM**. Netilmicin to Amikacin in Neonates ... Was the Change Good? Annual scientific meeting of the Australasian Society of Clinical and Experimental Pharmacologist (NZ). Auckland, NZ.
- 2006 Presentation at National Conference, **Sherwin CM**. A Pilot Study of Cytokines as Indicators of Pharmacokinetic Change for Gentamicin in Septic Neonates. Annual scientific meeting of the Population Approach Group of Australian and New Zealand. Auckland, New Zealand.
- 2005 Presentation at National Conference, **Sherwin CM**. Evaluation of the Pharmacokinetics of Netilmicin in Neonates with Suspected or Proven Sepsis. Joint conference of the Australasian Society of Clinical and Experimental Pharmacology and Toxicology and the Australian Pharmaceutical Science Association. Melbourne, Australia.

Local/Regional

- 2018 Solving your clinical headaches: what a clinical pharmacologist can do for you. **Sherwin CM**. Dept. Pharmacology and Toxicology, BSoM, WSU
- 2017 AAPS-RMDG, 2017 Annual Meeting. Insights from the past...shaping the future: Research at the intersection of pharmaceuticals & toxicology. **Sherwin CM**. Title " Perspectives on Pediatric Formulations and Dealing with Population Variability" Albuquerque, NM
- 2016 AAPS-RMDG, 2016 Annual Meeting. Addressing Health Challenges through Research in Pharmaceutical Science. **Sherwin CM**. Title "Using Pharmacometrics in Special Populations to Improve Health Outcomes" Las Vegas, NV
- 2012 Presentation at Local Research Seminar, **Sherwin CM**. Applied Clinical Pharmacology: Personalizing Medicine for Special Population, Division of Epidemiology, University of Utah, SLC, UT
- 2012 Presentation at Local Research Seminar, **Sherwin CM**. Application of Population Modeling and Optimal Design, Division of Epidemiology, University of Utah, SLC, UT
- 2012 Presentation at Local Research Seminar, **Sherwin CM**. Applied Clinical Pharmacology: Personalizing Medicine for Special Populations, Department of Pharmacology and Toxicology, College of Pharmacy, University of Utah, SLC, UT
- 2011 Presentation at Local Research in Progress, **Sherwin CM**. Data Modeling of Transdermal Lontophoresis, Department of Pediatrics, University of Utah, SLC, UT
- 2008 Presentation at Local Conference, **Sherwin CM**. "Withdrawing Medicines Used to Treat Infections in Neonates May Increase the Risk of Treatment Failure" At Pacific Voices: Pacific Postgraduate Symposium; Pacific Islands Centre, University of Otago, New Zealand.
- 2008 Presentation at Regional Conference, **Sherwin CM**. "Intravenous Infusion of Gentamicin to Extremely Premature Neonates." The annual meeting of the South Island Neonatal Group; Christchurch, New Zealand.
- 2008 Presentation Local Meeting, **Sherwin CM**. Investigation of Hearing Impairment in Neonates Treated with Aminoglycosides. *Otago Medical Research Foundation Meeting Summer Studentships*, Dunedin.
- 2008 Presentation Local Meeting, **Sherwin CM**. Investigation of Hearing Impairment in Neonates Treated with Aminoglycosides. *Otago Medical Research Foundation Meeting Summer Studentships*. Dunedin, New Zealand.
- 2007 Presentation at Local Conference, **Sherwin CM**. Investigation into the Diagnosis of Neonatal Sepsis and Improvement of Treatment Utilizing the Pharmacokinetics of Aminoglycosides. At Pacific Voices: Pacific Postgraduate Symposium; Pacific Islands Centre, University of Otago, New Zealand.

- 2007 Oral presentation at Regional Conference, **Sherwin CM**. Treatment Failure of Amikacin Associated with Neonatal Sepsis. The annual meeting of the South Island Neonatal Group; Dunedin, New Zealand.
- 2006 Presentation Regional Meeting, **Sherwin CM**. Netilmicin to Amikacin in Neonates...Was the Change Good? The annual meeting of the South Island Neonatal Group. Christchurch, New Zealand.

Invited/Visiting Professor Presentations

International

- 2018 Title Clinical Pharmacology: Developmental Changes and Drug PK, PD, and Toxicology in Children. Neonatal Clinical Fellows, Department of Women's and Children's Health, Otago School of Medicine, Dunedin, New Zealand
- 2018 Title Drug Disposition and Pharmacokinetics in Critically ill Pediatric Patients. Department of Women's and Children's Health, Otago School of Medicine, Dunedin, New Zealand
- 2018 Title: "Riding (High) into the Danger Zone: Considerations of Flight and Chemical Exposures" Lincoln University, Canterbury, New Zealand
- 2018 Title "Identification of Cytochrome P450 Polymorphisms and the Impact on Pharmacokinetics in Patients with Burn Injuries" Leiden University, Leiden, The Netherlands
- 2018 Title "Using a Holistic Approach to Precision Medicine Through Clinical Pharmacology" School of Pharmacy, University of Otago, New Zealand
- 2017 Bowman Symposium on Neonatal Research, Presenter Title "Setting up pharmacology trials in Pediatrics," Winnipeg, Manitoba, Canada
- 2016 Ethics of Drug Studies in the Newborn, Embracing a Research Culture Session, International Neonatal Consortium (INC), Co-Organized by the Critical Path Institute and the European Medicines Agency, London, UK
- 2016 Amikacin pharmacokinetics in Pediatric patients with burn injuries compared to those with oncology conditions. Lady Cilento Children's Hospital, Brisbane, Australia
- 2016 Career options in Pediatric Clinical Pharmacology. Pharmacy Australia Centre of Excellence, School of Pharmacy, The University of Queensland, Brisbane, Australia
- 2016 Modeling and Simulation for Special Populations, Anesthesiology and Critical Care, Faculty of Medicine, Royal Brisbane and Women's Hospital, Brisbane, Australia
- 2015 Paediatric Clinical Pharmacology meeting at the UCL Institute of Child Health, 2015, Paediatric Infectious Diseases Research Group, Institute for Infection and Immunity, St George's, University of London, UK
- 2015 Neonatal Sepsis, Applying Regulatory Science to Neonates: Launch of the International Neonatal Consortium (INC), Co-Organized by the Critical Path Institute and the European Medicines Agency, May 18, 2015, London, UK

National

- 2018 Determining the influence of Cytochrome P450 Polymorphisms, Demographic, and Clinical Variables in Clinical Studies of Patients with Burn Injuries. UES/Wright-Patterson Air Force Base Dayton, OH
- 2018 Using a Holistic Approach to Precision Medicine Through Clinical Pharmacology, Roswell Park Comprehensive Cancer Center, Buffalo, NY
- 2018 Pharmacokinetic and Pharmacogenetic Variability of Acetaminophen in Neonates. MPET 6400 - Introduction to Principles of Pharmacokinetics. Division of Oncology Research, Mayo Clinic Graduate School of Biomedical Sciences, Rochester, MN
- 2018 Population PK/PD modeling of tacrolimus in pediatric kidney transplant. Mayo Clinic, Rochester, MN
- 2018 Utilizing Pharmacometrics in Children towards Precision Medicine. Atrium Health Levine Children's Hospital, Charlotte, North Carolina
- 2018 Applications of Clinical Pharmacology: Solving your Clinical Headaches, University of Florida, Gainesville Campus, College of Pharmacy, Florida
- 2017 Wright-Patterson Air Force Base – Force Health Protection Site Visit. Title "Considerations for Isopropyl Alcohol (IPA) Exposures in Pilots of High-Performance Aircraft," Dayton, OH
- 2017 UGT1A9 rs3832043 Decreases Acetaminophen Glucuronidation in Neonates, College of Pharmacy, University of Minnesota, Minneapolis, MN. Center for Cognitive and Clinical Neuropharmacology
- 2016 Development of a physiologically based pharmacokinetic model of tacrolimus in adult organ transplant patients, College of Pharmacy, University of Minnesota, Minneapolis, MN. Departmental seminar series, ECP 8100/PHAR 6160
- 2016 Applications for Clinical Pharmacology: Modeling and Simulation for Special Populations, Arkansas Children's Hospital Research Institute, Arkansas Children's Hospital, Little Rock, AR
- 2015 Use of Pharmacometrics in Drug Development, in Master of Science in Drug Development, UC Winkle College of Pharmacy, University of Cincinnati, Cincinnati, OH

- 2015 Application of Modeling and Simulation in Special Populations, Center for Translational Science, Children's National Health System, Washington, DC
- 2015 Use of Pharmacometrics in Drug Development, Department of Pharmacology and Cell Biophysics, University of Cincinnati, Cincinnati, OH
- 2014 Applications for Clinical Pharmacology: Modeling and Simulation for Special Populations, Clinical Pharmacology, Toxicology, and Therapeutic Innovation, Children's Mercy Hospital and Clinics, Kansas City, MO
- 2014 Application of Modeling and Simulation in Special Populations, Department of Obstetrics & Gynecology, Maternal-Fetal Pharmacology and Bio development Laboratories, University of Texas Medical Branch, Galveston, TX
- 2014 Applied Clinical Pharmacology and Pharmacometrics, AAPS-UMKC Student Chapter, Division of Pharmaceutical Science, School of Pharmacy, University of Missouri, Kansas City, MO
- 2014 - 2014 Clinical Pharmacology and use of Pharmacometrics in Pediatric Populations. The Children's Hospital of Philadelphia/ Department of Anesthesiology and Critical Care, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA
- 2013 Special Populations: Pregnancy, Infancy & Old Age, Ph.D. Graduate Student Seminar, James L. Winkle College of Pharmacy, University of Cincinnati, Cincinnati, OH
- 2013 Use of Pharmacometrics in Drug Development, Masters in Pharmaceutical Sciences with Drug Development Track, James L. Winkle College of Pharmacy, University of Cincinnati, Cincinnati, OH

Local/Regional

- 2014 What is PKPD modeling, and how can I utilize it? College of Pharmacy, University of Montana, Missoula, MT
- 2012 Applied Clinical Pharmacology: Personalizing Medicine for Special Population, College of Pharmacy, University of Montana, Missoula, MT

Peer-Reviewed Presentations

International

- 2018 Presentation at the International Conference. "Model-based Dose Individualization Approaches Using Biomarkers" by Yellepeddi V and **Sherwin CM**, PAGE 27 (2018) Abstr 8795 [www.page-meeting.org/?abstract=8795] Population Approach Group in Europe, Montreux, Switzerland
- 2017 Presentation at the International Conference. "Scaling renal function in neonates and infants to describe the pharmacodynamics of antibiotic nephrotoxicity" by Holford N and **Sherwin CM**, PAGE 26 (2017) Abstr 7208 [www.page-meeting.org/?abstract=7208] Population Approach Group in Europe, Budapest, Hungary

Grand Rounds Presentations

- 2018 Association of cord blood magnesium concentrations and cerebral palsy or death in children. Erasmus MC-Sophia, University Medical Center Rotterdam, The Netherlands, July 2018
- 2017 Applications of Clinical Pharmacology: Solving your Clinical Headaches. Department of Pharmacology and Clinical Neuroscience, University of Umea, Umea, Sweden, May 2017
- 2015 Clinical Pharmacology: Solving your Clinical Headaches, Erasmus MC-Sophia, University Medical Center, Rotterdam, The Netherlands, Oct 2015

Posters

- 2019 Job. K.M., Murray, D., Motuapuaka, S., Murphy, N., **Sherwin, CM**. Trends in Clinical Use of Phenol Injections in a Pediatric Physical Medicine and Rehabilitation Clinic. (2019) Poster session presented at the University of Utah, School of Pharmacy, Salt Lake City, UT.
- 2019 Patel S, Kumar S, **Sherwin, CM**, Job, K. (2019). Pharmacokinetics of Antibiotics in Children Receiving Renal Dialysis. Poster session presented at the University of Utah, School of Pharmacy, Salt Lake City, UT.
- 2018 Biltaji, E., Biskupiak, J.E., **Sherwin, CM.**, McMillin, G.A., Brixner, D.I. (2018). Optimizing the value of pharmacogenetic risk screening among patients with polypharmacy: A healthcare system experience 13th Annual Utah health services research conference, University of Utah
- 2018 Karabegovic L, Illamola S, Job K, **Sherwin CM**. *Clinical Management of Antiepileptics During Pregnancy*. Poster session presented at Utah Undergraduate Research Symposium, Salt Lake City.
- 2018 Karabegovic L, **Sherwin CM**. *Antiepileptic Drug Use during Pregnancy*. Poster session presented at Utah Undergraduate Research Symposium, Salt Lake City.
- 2017 Young V, Illamola SM, Job KM, Korgenski EK, Carroll P, **Sherwin CM**. *Antidepressant Comedication Use During Pregnancy*. Poster session presented at Utah Undergraduate Research Symposium, Salt Lake City.

- 2017 Tak CR, Biltaji E, Kohlmann W, Maese L, **Sherwin CM**, Brixner D, Schiffman J. *Cost-effectiveness of an early cancer surveillance strategy for patients with Li-Fraumeni Syndrome*. Poster session presented at Extreme Affordability Conference: Disrupting Barriers to Strengthen Global Health, University of Utah.
- 2016 Ollerton R, Job K, Balch A, Korgenski K, **Sherwin CM**. *Pharmacokinetics of Antibiotics in Pediatric Patients Receiving Renal Replacement Therapy*. Poster session presented at Research Trainee Symposium: Molecular Medicine and Medical School Research Programs, Snow Park Lodge, Deer Valley Resort, Park City, UT.
- 2016 Huynh HQ, Zubin Bhakta Z, Liou T, Carveth H, **Sherwin CM**, Liu X, Wang Y, Young DC. *Optimizing Pharmacokinetics and Pharmacodynamics of Intravenous Amikacin in Cystic Fibrosis Patients: Assessment of Clinical Outcomes and Nephrotoxicity*. Poster session presented at Vizient Connections Summit, Vegas, NV.
- 2016 Hillyard B, Rower JE, Korgenski EK, Balch A, **Sherwin CM**. *Trends of Tacrolimus Use in Pediatric Transplant Patients*. Poster session presented at Utah Undergraduate Research Symposium, SLC, UT.
- 2015 Constance JE, Linakis MW, Stockmann C, Roberts JK, **Sherwin CM**, Spigarelli MG. *Inpatient polypharmacy among children with leukemia or lymphoma receiving IV antibiotic therapy within the first year from diagnosis*. Poster session presented at Translating Cancer Epidemiology, Huntsman Cancer Institute, SLC, UT.
- 2015 Murillo J, Constance JE, Spigarelli MG, **Sherwin CM**. *Polypharmacy in pediatric transplant patients receiving tacrolimus*. Poster session presented at Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS), Washington, DC.
- 2015 Abdelaziz S, Yu T, Stockmann C, **Sherwin CM**, Balch AH. *Changes in Physician Prescribing Patterns in Response to Therapeutic Drug Monitoring of Tacrolimus in Pediatric Patients*. Poster session presented at Research Trainee Symposium: Molecular Medicine and Medical School Research Programs, Snow Park Lodge, Deer Valley Resort, Park City, UT.
- 2015 Ford TA, Constance JE, **Sherwin CM**. *Type 1 Diabetes and the risk of kidney dysfunction among children receiving intravenous antibiotics*. Poster session presented at Research Trainee Symposium: Molecular Medicine and Medical School Research Programs, Snow Park Lodge, Deer Valley Resort, Park City, UT.
- 2015 Murillo J, Constance JE, Spigarelli MG, **Sherwin CM**. *Polypharmacy in pediatric transplant patients receiving tacrolimus*. Poster session presented at the Association of American Indian Physicians (AAIP), Tulalip, WA.
- 2015 Clements N, Constance JE, Yu T, Campbell SC, Linakis M, **Sherwin CM**, Spigarelli MG. *Therapeutic drug monitoring and target vancomycin attainment among pediatric patients undergoing hemodialysis*. Poster session presented at the Annual Medical Student Scholarly Activity Symposium, University of Utah School of Medicine.
- 2014 Sneddon JR, Campbell SC, McMillin G, Balch AH, **Sherwin CM**, Spigarelli MG. *Trends of KRAS Pharmacogenomic Testing for Cetuximab and Panitumumab*. Poster session presented at Research Trainee Symposium: Molecular Medicine and Medical School Research Programs, now Park Lodge, Deer Valley Resort, Park City, UT.
- 2014 Lewis DE, Campbell SC, Thomas KC, **Sherwin CM**, Spigarelli MG. *Poison Control Center Calls Regarding Suicidality in Pregnant Women*. Poster session presented at the Annual Woman and Child Institute Spring Research Conference, SLC, UT.
- 2014 Yu T, Balch AH, Spigarelli MG, **Sherwin CM**. *Population Pharmacokinetics/Pharmacodynamics of Intravenous Vancomycin in Adolescent Patients*. Poster session presented at the Annual Woman and Child Institute Spring Research Conference, SLC, UT. Encore.
- 2014 Kamyar M, Balch A, Campbell S, Robertson J, **Sherwin CM**, Clark EAS, Spigarelli MG, Rose N. *The Evaluation of Teratogen Information Service Data as it Relates to Prenatal Care*. Poster session presented at the Annual Woman and Child Institute Spring Research Conference, SLC, UT. Encore.
- 2014 Bridges ZM, Campbell SC, Thomas KC, **Sherwin CM**, Spigarelli MG. *Poison Control Center Case Reports Regarding Exposures in Pregnant Women*. Poster session presented at the Annual Woman and Child Institute Spring Research Conference, SLC, UT.
- 2013 Schoen K, Yu T, Tak C, Clark EA, Varner MV, Spigarelli MG, **Sherwin CM**. *Metabolism of Caffeine during Pregnancy: A Preliminary Analysis*. Poster session presented at Research Trainee Symposium: Molecular Medicine and Medical School Research Programs, Snow Park Lodge, Deer Valley Resort, Park City, UT.
- 2011 **Sherwin CM**, Spigarelli MG. *Predicting Success Among Female Olympic Ski Jumpers: An Example of Data Modeling and Simulation*. Poster session presented at 1st Annual Woman and Child Institute Spring Research Conference, SLC, UT.

Additional Research/Scholarship Contributions

- 2018 NICHD Task Force on Research Specific to Pregnant Woman and Lactating Women, Bethesda, MD
- 2017 NCATS visit to Utah TIC. The presentation titled "Pharmacology Modeling"

- 2017 - present Member of the advisory board – NICU/PICU Pediatric Drug Research (SAFE-PEDRUG 2) (Fund for Scientific Research, Flanders), University of Ghent and University of Leuven, Belgium, Prof. Dr. J. Vande Walle, SAFE-PEDRUG Consortium Coordinator
- 2017 Third Annual Neonatal Scientific Workshop. Roadmap for Applying Regulatory Science to Neonates. FDA and Critical Path Institute, INC Data Workgroup Update Utah data
- 2017 - present Reviewer of Book proposals for Bentham Science Publishers
- 2016 - present Member of Pharmacogenomics Research Network (PGRN)
- 2016 - present US FDA Critical Path project. "Neonatal renal function modeling."
- 2016 Speaker, one-day update meeting at FDA including seminars and roundtables. Presentation "Pharmacometric Modeling of Immunosuppressants for Evaluation of Bioequivalence Criteria" and "Pharmacometric Modeling and Simulation for Evaluation of Bioequivalence for Leuprolide Acetate Injection"
- 2016 - present Reviewer of Book proposals for Springer Science Publishers
- 2016 - 2017 Reviewer of IND/IDE applications through the Clinical Trials Office/TIC (NCATS U24 grant), Department of Pediatrics, University of Utah
- 2016 Panelist. Oral Absorption Modeling and Simulation for Formulation Development and Bioequivalence Evaluation. Food and Drug Administration (FDA)
- 2016 - 2016 Manuscript selected for May 2016 Continuing Education activity in The Journal of Clinical Pharmacology. The activity offers CME and CPE credits. Bhongsatiern JJ, Stockmann C, Yu T, Constance EC, Moorthy G, Spigarelli MG, Desai PB, **Sherwin CM**. Renal function descriptors in neonates: Which creatinine-based formula best describes vancomycin clearance? J Clin Pharmacol. 2015 Sep 28. doi: 10.1002/jcph.650. [Epub ahead of print
- 2016 - 2016 Panelist. Evaluation of the Safety of Drugs and Biological Products used during Lactation. FDA's Division of Pediatric and Maternal Health in CDER
- 2016 - 2016 Second Annual Neonatal Scientific Workshop. Roadmap for Applying Regulatory Science to Neonates. FDA and Critical Path Institute
- 2016 - present Member of Clinical Pharmacogenetics Implementation Consortium (CPIC)
- 2015 - 2015 Advisory Committee for Safe and Effective Educational Modules, PhRMA Foundation, Washington, DC
- 2015 Panelist, Pediatric Drug Development: Use of Exposure Matching and Exposure-Response for Extrapolation of Efficacy in Pediatric Product Development. A workshop sponsored by the University of Maryland Center for Excellence in Regulatory Science and Innovation and the Food and Drug Administration (FDA).
- 2014 Interviewee, University of Otago Postdoctoral Alumni, University of Otago profiles, <http://www.otago.ac.nz/profiles/otago086252.html>
- 2014 - 2014 First Annual Neonatal Scientific Workshop. Roadmap for Applying Regulatory Science to Neonates. FDA and Critical Path Institute
- 2014 - 2014 Pediatric Clinical Investigator Training Workshop, Food and Drug Administration (FDA)
- 2014 - 2014 Panelist, Joint Statistical Meetings, American Statistical Association Conference (2014) - Session Title: Therapeutic Drug Monitoring in Infectious Disease Therapy- Optimizing the Dose Individually and Dynamically

Continuing Education Attended

- 2018 A Short Hands-on Experience with Model-informed Drug Development: Incorporating Population Variability into Mechanistic Prediction of PK and Modeling PK/PD, 2-day workshop, University of Minnesota
- 2012 - 2013 Principles of Pediatric Clinical Pharmacology course, administered by Office of Clinical Research Training and Medical Education, NIH Clinical Center, Bethesda, MD (video-cast to University of Utah)
- 2012 Mixed effects models using R workshop by Dr. Douglas Bates, University of Utah
- 2012 - 2012 MATLAB Fundamentals 3-day Training Workshop, SLC, UT, USA
- 2011 - 2011 MATLAB for Life Sciences 2-day Seminars, University of Utah, SLC, UT, USA
- 2010 Individualizing Drug Dosage regimens. How to do it with Graphic Software at the Bedside or Nurses' Station, ACCP pre-meeting workshop by – Dr. Roger Jelliffe and Dr. Michael Neely.
- 2009 - 2010 Principles of Clinical Pharmacology course, administered by Office of Clinical Research Training and Medical Education, NIH Clinical Center, Bethesda, MD (video-cast to Cincinnati Children's Hospital)
- 2009 Grant Writers' seminars and workshop "Writing winning grants," University of Cincinnati, by Dr. Stephen Russell.
- 2009 Collaborative Institutional Training Initiative (CITI) course in the Protection of Human Research Subjects, CCHMC, OH.
- 2008 Preparing for Academic Careers (8-week part-time course), Higher Education Development Centre, University of Otago.
- 2008 Introduction to NONMEM VI, PsN and XPOSE –by Dr. Andrew Hooker
- 2008 Binary and Categorical Data Modeling, Analysis, and Simulation using NONMEM – by Dr. Adrian Dunne.
- 2008 Getting Started with Bayesian PK/PD Modeling and Simulation Using WinBUGS –by Dr. Bill Gillespie.

- 2007 Modeling Likelihoods using NONMEM –by Dr. Nick Holford
- 2007 Conducting Logistic Regression with NONMEM – by Dr. Diane Mould.
- 2007 Introduction to Optimal Design – by Dr. France Mentre.
- 2007 Introduction to WinPOPT – by Dr. Stephen Duffull.
- 2005 Beginners Introduction to NONMEM – by Dr. Stephen Duffull.
- 2004 Effective Strategies for Improved Solid Phase Extraction – Phenomenex, NZ.
- 2004 Animal Welfare Office Training Program University of Otago– Guidelines for Animal Use in Research, Testing, and Teaching in NZ.

Additional Research Placements

- 2003 - 2003 Research performed at Canterbury Health Laboratory, Christchurch, New Zealand. Project Title: Development of an HPLC Method for the Determination of Methotrexate (MTX) and MTX-polyglutamates in Red Blood Cells. Supervisors: Dr. Ravi Gooneratne (Lincoln University), Mr. Grant Moore and Dr. Chris Florkowski (Canterbury Health Laboratory)
- 2001 - 2001 Research performed at Agri-Quality Animal Health Laboratory, Canterbury, New Zealand. Project Title: Investigation into Toxicity Problems in Domestic and Production Animals in New Zealand. Supervisors: Dr. Ravi Gooneratne (Lincoln University) and Dr. Jenny Hill (Agri-Quality Animal Health Laboratory)

Research Statement

Dr. Catherine Sherwin, a Professor and Vice-chair for research at the Department of Pediatrics, Wright State University Boonshoft School of Medicine and Dayton Children's Hospital. She earned her Ph.D. at the University of Otago, Dunedin School of Medicine, New Zealand in Paediatric Clinical Pharmacology in 2007. She then completed one year of Postdoctoral training in the Women's and Children's Health in Dunedin and then a two-year T32 Fellowship training program in the Divisions of Clinical Pharmacology, Cincinnati Children's Hospital Medical Center. She received board certification from the American Board of Clinical Pharmacology in 2011. Dr. Sherwin has expertise and experience in the development of quantitative pharmacometric (PK/PD/PD) models in special populations, including pediatric and neonatal patients.

Dr. Sherwin's areas of clinical research focus are clinical pharmacology/toxicology and pharmacometrics within the area of pediatrics and maternal health, and specifically the juncture of the two: neonatology and pregnancy. She is highly committed to understanding how the physical size and physiological based information can be systematically utilized to understand the inherent pharmacology. She has a combination of skill sets that are in high demand; having been trained in pediatric clinical pharmacology and pharmacometrics. The natural overlap between these two areas of expertise complement one another and allow Dr. Sherwin to provide a unique level of technical depth and research insight to pediatric studies. Dr. Sherwin's research has a highly clinical focus and combines the utility and innovation of modeling and simulation to provide research answers to real clinical questions.

Primary Skills

Clinical Pharmacology, Clinical Trials, Pharmacokinetics, Pharmacodynamics, Toxicology, Translational Research, In Vivo, Clinical Study Design

Knowledge Areas

Clinical Research, Research, Life Sciences, Biochemistry, Drug Development, Clinical Development, Pediatrics, Genetics, Immunology, Modeling, Infectious Diseases, Simulations, Drug Discovery

Researcher Global Impact

h-index 24	h-index 22 (excluding self-citations)
Citations 1714	
i10-index 56	i10-index 52 (excluding self-citations)
ResearchGate (RG) Score	41.82

Selected Provider Publications

Total number of publications	169 (excluding conference proceedings) 227 (with conference proceedings)
Most cited publication	Maturation of the Glomerular Filtration Rate in Neonates, as Reflected by Amikacin Clearance
	Times cited 91

Evidence of Global Impact

Video/Film/CD/Web/Podcast

Ward RM, **Sherwin CM**. Making Medications Safer for Newborns [Web]. London: sciencenewsroom@wiley.com. Available: <http://www.wiley.com/WileyCDA/PressRelease/pressReleaseId-128648.html>.

Global Impact: United Kingdom.

Awards & Honors

Manuscript recognized as most accessed article from BMC Pharmacology and Toxicology. Yu T, Balch AH, Ward RM, Korgenski EK, **Sherwin CM** (2016). Incorporating pharmacodynamic considerations into caffeine therapeutic drug monitoring in preterm neonates. *BMC Pharmacol Toxicol*, 17(1), 22.

Global Impact: United Kingdom

Editors' Performance Prize British Journal of Clinical Pharmacology 2016

Global Impact: United Kingdom

Grand Rounds

Clinical Pharmacology: Solving your Clinical Headaches, Erasmus MC-Sophia, University Medical Center, Rotterdam, The Netherlands, Oct 2015

Global Impact: The Netherlands

Presentations

Neonatal Sepsis, Applying Regulatory Science to Neonates: Launch of the International Neonatal Consortium (INC), Co-Organized by the Critical Path Institute and the European Medicines Agency, May 18, 2015, London, UK

Global Impact: United Kingdom

Paediatric Clinical Pharmacology meeting at the UCL Institute of Child Health, 2015, Paediatric Infectious Diseases Research Group, Institute for Infection and Immunity, St George's, University of London, UK

Global Impact: United Kingdom

Social Media

LinkedIn Profile

https://www.linkedin.com/in/catherine-sherwin-062b3813?trk=nav_responsive_tab_profile

ResearchGate Profile

https://www.researchgate.net/profile/Catherine_Sherwin2

Google Scholar Page

https://scholar.google.com/citations?hl=en&user=kjvcIDsAAAAJ&view_op=list_works&sortby=pubdate

Loop Profile

<https://loop.frontiersin.org/people/154891/overview>

Twitter

<https://twitter.com/CathMSherwin1>

ORCID iD

<https://orcid.org/0000-0002-0844-3207>

Web of Science ResearcherID B-2888-2012

Publons

<https://publons.com/researcher/1184594/catherine-mary-turner-sherwin/>