

Curriculum Vitae

PEGGY L. CARVER, PHARM.D, FCCP, FIDP

June, 2021

WORK University of Michigan College of Pharmacy
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EDUCATION

1983 **Doctor of Pharmacy**
 University of California
 School of Pharmacy
 San Francisco, CA

1979 **BA Biology (Honors)**
 University of California
 Los Angeles, CA

LICENSURE

1988- present Pharmacy Licensure, Michigan
1983-1988 Pharmacy Licensure, California

PROFESSIONAL AND ACADEMIC POSITIONS

1994-present Associate Professor of Pharmacy (with tenure)
 University of Michigan College of Pharmacy

May 2017-present Member, Institutional Review Board (IRBMED)
 Michigan Medicine

Aug 1997-Feb 1998 Visiting Research Scientist
 Merck Research Laboratories
 Rahway, New Jersey
 [sabbatical leave spent in molecular biology laboratory; cloning *Candida* genes
 under the direction of Myra Kurtz, PhD, Rosemary Kelly, Ph.D. and John
 Kozarich, Ph.D.]

Feb 1998-Sept 1998 Visiting Research Scientist:
 Universitat Westfälisch, Münster Germany
 Université de Paris Sud, Orsay, France
 Université de Grenoble, Grenoble, France
 [sabbatical leave]

1986-1994 Assistant Professor of Pharmacy
 University of Michigan College of Pharmacy
 Ann Arbor, MI

1986-present Clinical Pharmacist
 Adult Infectious Diseases Service
 University of Michigan Health System
 Ann Arbor, MI

1986-2005 Program Director, Advanced Residency in Infectious Diseases
 University of Michigan Health System
 Ann Arbor, MI

1984-1986 Post Doctoral Pharmacy Fellow
 Infectious Diseases Practice & Research
 Department of Pharmacy Services
 Hartford Hospital
 Hartford, CT

Assistant Clinical Professor of Pharmacy
 University of Connecticut School of Pharmacy
 Storrs, CT

1983-1984 Clinical Pharmacy Resident
 University of California, San Francisco
 San Francisco, CA

AWARDS and RECOGNITIONS

2019 Phi Delta Chi 'Selfless Servant' Award
 2019 Phi Delta Chi Professional Development Award
 2017 **Fellow, Society of Infectious Diseases Pharmacists (FIDP)**
 2017 Outstanding Chapter Advisor, Phi Delta Chi Fraternity (national award)
 2013 P3 Class Recognition award
 2011 Phi Delta Chi Brother of the Month, December 2011
 2010-2016 Nominee, Outstanding Student Group Advisor at the University of Michigan
 2010 Outstanding Poster, ESPEN 2010, Nice, France. September 2010
 2010 **Teaching Excellence Award, UM College of Pharmacy**
 2010 Student Appreciation Award from 3rd year class, UM College of Pharmacy
 2010 Phi Delta Chi Brother of the Month, April 2010
 2009 Phi Delta Chi "outstanding faculty" graduate brother
 2008 Invited graduate brother of Phi Delta Chi, Alpha Chapter
 2007 Best Poster, MAD 2007 Infectious Diseases Conference
 2006 **Fellow, American College of Clinical Pharmacy (FCCP)**
 2006 Preceptor of the Year, Nominee, UM College of Pharmacy
 2002 Best Poster, Nominee, ACCP Spring Meeting, Savannah GA
 2000, 2001, 2002 Teaching Excellence Award Nominee, UM College of Pharmacy
 2003, 2004, 2005,
 2008, 2010, 2018, 2019,
 2020 (finalist), 2021

1990 Student Research Preceptor Award
 Southeastern Michigan Society of Hospital Pharmacists

1983 Rho Chi Honor Society, Initiate
 University of California, San Francisco School of Pharmacy

1983	Bowl of Hygeia Award, Nominee University of California, San Francisco School of Pharmacy
1981	Barnes Hind Scholarship, University of California, San Francisco School of Pharmacy
1979	Graduation with honors, University of California, Los Angeles
1979	Chancellor's Marshall, University of California, Los Angeles
1975	National Merit Commended Student

PROFESSIONAL ACTIVITIES

American College of Clinical Pharmacy (ACCP)

2014-present	Member, Credentials committee
2016-present	Reviewer, 'On demand' Curriculum Vitae Review Service
2013-present	ACCP Student Liaison
2012	Expert Reviewer, Ambulatory Care Self-Assessment Program (ACSAP)
2013	Judge, "Best Poster" committee, ACCP Virtual Meeting
2004	Member, ACCP ID-PRN ID Fungal bibliography committee
2006-present	Fellow
2005-2007	Member, ACCP 2007 Annual Program Committee Session Coordinator, 2007 Annual Program Committee
2006	Reviewer, ACCP ID-PRN ID Mini-sabbatical grant review committee
2000-2002	Member, ACCP 2002 Annual Program Committee
2003	Judge, "Best Poster" committee, ACCP Annual Meeting
2002	Chair, Abstract Reviews, ACCP 2002 Annual Program
2002	Expert Reviewer, PSAP IV, Self-Assessment Program
2000-present	Reviewer, Annual Poster meeting and Spring meeting abstracts

Southeastern Michigan Society of Hospital Pharmacists (SEMSHP)

1986-1998	Member, Southeastern Michigan Society of Hospital Pharmacists
1987-1990	Member, Southeastern Michigan Society of Hospital Pharmacists Awards Committee

American Society of Health System Pharmacists (ASHP)

1998-present	Member, Clinical Practice Group in Infectious Diseases
1993-1994	Chair, American Society of Health-System Pharmacists Specialty Practice Group in Infectious Diseases (SPG)
1992-1993	Vice-chair, American Society of Health-System Pharmacists Specialty Practice Group in Infectious Diseases (SPG)

Society of Infectious Diseases Pharmacists (SIDP)

2017-present	Member, Awards Committee
2017-present	Fellow
2017-present	Member, strategic planning committee
2016-present	Member, membership committee
2016	Reviewer and contributor, SIDP 25 year compendium
2009-2016	Member, Newsletter committee
2011-2012	Chair, Author guidelines revision (Newsletter subcommittee)
2006-2009	Member, Past-President's Advisory Committee
2004-2005	Member, Elections Committee
2001-2002	Past-President
2000-2001	President
1999-2000	President-Elect

1998-2000	Board Member at Large (served only one year of 2 year term of office due to election as President-elect)
1997-2004	Member, Membership Committee
1996-1998	Member, Publications Committee
1994-1996	Member, Awards Committee
1994-1996	Member, Ad Hoc Finance Committee
1992-1994	Secretary-Treasurer
1991-1993	Member, Annual Meeting Committee
1990	Founding Member

Phi Delta Chi Fraternity, Alpha Chapter (University of Michigan)

2018-present	Member, Selection committee, Phi Delta Chi Outstanding Advisor
2017-present	Member, Phi Delta Chi Regional Alumnae Chapter
2016- 2019	Chapter Advisor Workshop invited member at national meeting
2016, 2018	Leadership Development Seminar attendee
2009-present	Faculty Advisor , Alpha Chapter, University of Michigan
2008-present	Graduate brother, Alpha Chapter, University of Michigan

Locally (University of Michigan campus) Alpha chapter has received the following awards:

2021	Michigan Leadership Award for the Cross Cultural programming group award; this is a competitive award at the University of Michigan Campus of all 1000+ student organizations.
2017	Michigan Leadership Award for Outstanding Student Organization; this is a competitive award at the University of Michigan Campus of all 1000+ student organizations.
2016	Alpha chapter was awarded St. Jude’s Phi Delta Chi Great Lakes Chapter of the Year as the top fundraiser and was the top Fundraising Team for the St. Jude Walk/Run
2016	Michigan Difference Student Leadership Awards: selected as having the ‘best web presence’ at the University of Michigan, of >120 campus-wide student organizations.
2012	Alpha chapter was nominated for the University of Michigan Philanthropy Award
2011	Michigan Leadership Award for Outstanding Student Organization 2011; this is a competitive award at the University of Michigan Campus of all 1000+ student organizations.

Nationally (of >100 chapters), chapter rankings are based upon contributions in leadership, professional and service projects, scholarship, chapter publications, and brotherhood, which each count towards winning the fraternity’s highest award, the Emory W. Thurston Grand President’s Award. During the time I have served as chapter advisor, Alpha Chapter has won the following awards (they had never previously won any):

2020	5 th place overall for the Emory W. Thurston Grand President’s Award, with 3 rd in the John D. Grabenstein Leadership award, 2nd in the Ralph Saroyan Brotherhood award, 6th place in professional service, and 10th place in scholarship, with 100% in achievement award points, and 3 rd place in the St. Jude Fundraising.
2019	2 nd place overall for the Emory W. Thurston Grand President’s Award, with 1 st in the John D. Grabenstein Leadership award, 4th in the Ralph Saroyan Brotherhood award, and 6th place in professional service, with 100% in achievement award points
2018	2 nd place overall for the Emory W. Thurston Grand President’s Award, with 2nd in the the Ralph Saroyan Brotherhood and the John D. Grabenstein Leadership awards, 3 rd place in chapter publications and scholarship, with 100% in achievement award points
2017	Winner of the Emory W. Thurston Grand President’s Award , with 1 st place in scholarship and in chapter publications, and 3rd place in brotherhood, in the John D. Grabenstein Leadership award, and professional and service projects reports, with 100% in achievement award points.
2016	2 nd place overall for the Emory W. Thurston Grand President’s Award, with 1st in scholarship, 2nd in brotherhood, 2nd in leadership & 4th place in publications, with 100% in achievement award points.

- 2015 5th place overall for the Emory W. Thurston Grand President's Award, with 3rd place in leadership, 4th in scholarship, 7th in chapter publication, 13th in professionalism and service, and 24th for brotherhood, Pharmacy Leadership & Education Institute (PLEI) Leaders in Action Scholarship (Chapter Award, National-Level), 100% in achievement award points
- 2013 10th place overall for the Emory W. Thurston Grand President's Award, with 8th nationally for the John D. Grabenstein Leadership award, 3rd nationally for the Ralph Saroyan Brotherhood Award, 17th for Scholarship, 13th for the professional and service project, and 28th for the window display, and 100% in achievement award points.
- 2011 7th place overall for the Emory W. Thurston Grand President's Award, 4th for the John D. Grabenstein Leadership award, 3rd nationally for the Ralph Saroyan Brotherhood Award and Desmet Scholarship, 2nd nationally for the Scrapbook award, and we received the Dale W. Doerr Achievement Award, with 100% in achievement award points.

Others

- 2014-present Frontiers in Infectious Diseases, member of Review Editorial Board
2011, 2012 Member, "TIPS" Teaching Innovation Prize" selection committee, University of Michigan
- 2008-present Reviewer, *Up to Date*
- 2005-present Member, Editorial Board, *Reviews on Recent Clinical Trials*
- 2001-2002 Member, CRLT Advisory Board
- 1997-2000 Member, Advisory Board, *Pharmacoeconomics: Infectious Diseases*
- 1996 Reviewer, textbook proposal, Williams and Wilkins Inc.
- 1995-1998 Member, NIH Study Section (SBIR)
- 1995-2000 Data Safety Monitoring Board, Warner-Lambert Parke Davis Pharmaceutical Company
- 1994-1999 Member, Editorial Advisory Board, *Journal of Infectious Disease Pharmacotherapy*
- 1990 Reviewer, Clinical Pharmacology and Nursing, Springhouse Corp., Springhouse, PA.
- 1987-1990 Member, SE Michigan Society of Hospital Pharmacists Awards Committee

Professional Affiliations

- 2017-present American Chemical Society (ACS)
- 2017-present Phi Delta Chi Regional Alumnae Chapter
- 2012-present International Pharmaceutical Federation (FIP)
- 2012-present International Society for Human and Animal Mycology (ISHAM)
- 2012-present Immune Compromised Host Society (ICHS)
- 2008-present Phi Delta Chi Pharmacy Fraternity (PDC)
- 2010-present Society of Biological Inorganic Chemistry (SBIC)
- 2006-present Infectious Diseases Society of America (IDSA)
- 2000-present American College of Clinical Pharmacy (ACCP)
- 2000-present ACCP Infectious Diseases Practice Research network (ID-PRN)
- 1990-present Society of Infectious Diseases Pharmacists (SIDP)
- 1987-present American Association of Colleges of Pharmacy (AACCP)
- 1987-1996 Southeast Michigan Society of Health-System Pharmacists
- 1986-present Sigma Xi
- 1984-present American Society of Microbiology (ASM)
- 1981-present American Society of Health-System Pharmacists (ASHP)

PhD Defense Committee membership

9/2/16	Ivana Martinic. PhD defense Committee. 'Novel Perspectives in Near-Infrared Optical Imaging with Lanthanide-Based Molecules, Macromolecules and Nanomaterials'. The University of Orleans, Orleans, France.
5/2009	Jenna Welba, The University of Michigan College of Literature, Science, and Arts, Department of Chemistry.
8/1/95	Joan Penner-Hahn. 'Timing and methods of international research expansion in the Japanese pharmaceutical. Industry.' Michigan Business School Corporate Strategy Department. The University of Michigan Ross School of Business. Ann Arbor, MI.

Editorial Advisory Board

2015-present	Member, Editorial Advisory Board, <i>Frontiers in Microbiology</i>
1997-2005	Member, Editorial Advisory Board, <i>Pharmacoeconomics: Infectious Diseases</i>
1994-1998	Member, Editorial Advisory Board, <i>Journal of Infectious Disease Pharmacotherapy</i>

Journal Reviewer

2016-present	PLoS One
2016-present	<i>Scientific Reports</i>
2016-present	<i>Anti-Infective Agents</i>
2016-present	<i>Expert Review of Anti-infective Therapy</i>
2016-present	Mini-Reviews in Medicinal Chemistry
2016-present	<i>Expert Opinion On Drug Metabolism and Toxicology</i>
2014-present	<i>Medical mycology</i>
2014-present	<i>Journal of Clinical Pharmacology</i>
2013-present	<i>BMC Infectious Diseases, Cancer Medicine</i>
2012-present	<i>Clinical Transplantation</i>
2011-present	<i>Metallomics</i>
2008-present	<i>Future Microbiology</i>
2008-present	<i>Drugs</i>
2007-present	<i>Pediatric Infectious Diseases</i>
2007-present	<i>Biopharmaceutics & Drug Disposition</i>
2007-present	<i>Applied and Environmental Microbiology</i>
2006-present	<i>Therapeutics and Clinical Risk Management</i>
2005-present	<i>Pharmacy Today</i>
2005-present	<i>Mycoses</i>
2005-present	<i>Expert Review of Anti-Infective Therapy</i>
2005-present	<i>Expert Opinion on Pharmacotherapy</i>
2005-present	<i>BMT</i>
2004-present	<i>Journal of Clinical Microbiology</i>
2004-present	<i>European Journal of Clinical Microbiology & Infectious Diseases</i>
1998-present	<i>Journal of Pharmacy Technology</i>
1994-present	<i>Inorganic Chemistry</i>
1994-present	<i>Clinical Infectious Diseases</i>
1993-present	<i>USP-DI</i>
1993-present	<i>Antimicrobial Agents and Chemotherapy</i>
1992-present	<i>Pharmacotherapy</i>
1990-2006	<i>The Medical Letter</i>
1989-present	<i>Hospital Pharmacy</i>
1987-present	<i>The Annals of Pharmacotherapy</i>
1986-present	<i>American Journal of Hospital Pharmacy</i>
1986-1994	<i>Clinical Pharmacy</i>

TEACHING (major courses taught while at University of Michigan)

Doctor of Pharmacy

2017-present	Medicinal Chemistry (MC600) Instructor, CAPSTONE session on antimicrobial agents
2014-present	Introduction to Pharmacy (P501) Course coordinator (2014-present) Instructor (2014-present)
2013-2016	Lifelong Learning / Pharmacy 'phamilies' (P401, P501, P601, P701) Course coordinator 2013-2015 Instructor (2013-present)
2011-Present	Therapeutic Problem Solving (P702) Course coordinator 2009-2014 Instructor (16-21 contact hours/year); Remediation course in 2012, 2013, 2015, 2016, 2019 Developer of 'SIM' sessions
2013-Present	Pharmacy 'phamily' (faculty advisor) for 1-2 'phamilies' per year, for 4 years As of July 2020, I have advised 27 phamily members
2005-2011	Direct Patient Care Introductory Pharmacy Practice Experience (P551) Course Coordinator 2005-2011 Instructor (45 contact hours/year)
1986-Present	PharmD Investigations (2-6 research mentees/year)
1998-present	University of Michigan Multidisciplinary Clinical Researchers in Training (MCRiT) Summer Practicum - Research mentor – College of Pharmacy Students Frank Burtone Kate Veltman Sydney VanDorf (co-advisor)
1986-2011	Pathophysiology and Therapeutics (P531) Instructor (16-21 contact hours/year)
1986-Present	Student seminar P680 (2 students/year)
1986-Present	Adult Infectious Diseases APPE rotation (4-6 weeks/rotation; 3-15 students / year)

Nursing School

1999-2017	Therapeutic Problem Solving for Nursing students (P620) Course coordinator 1999-2002 Instructor (4-20 contact hours/year)
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PGY1 Residency Adult Infectious Diseases rotation:

Preceptor for 1-4 PGY1 residents per year

PGY1 Residency mentor /co-mentor (writing project): Aline Saad, Pharm.D; Lydia L. Benitez, Pharm.D; Twisha Patel, Pharm.D

PGY1 Residency mentor / co-mentor (research project): Anna (Sutherland) Brown, Pharm.D ; Melissa Carroll, Pharm.D; Alan Antworth Pharm.D.

PGY2 Infectious Diseases Residency Program

Program Director, University of Michigan Health System (1987-2005)

PGY2 Residents supervised: Pamala Colburn Jacobson, PharmD (1987-1988); Daryl D. DePestel, Pharm.D. (2000-2001), Loretta Chiu, Pharm.D. (2002-2003), Michael Nailor, Pharm.D (2003-2004), Shu-Lin (Wendy) Lin, Pharm.D (2004-2005)

PGY2 Residency mentor / co-mentor (research project): Pamala Colburn Jacobson, PharmD (1987-1988); Daryl D. DePestel, Pharm.D. (2000-2001); Shu-Lin (Wendy) Lin Pharm.D (2004-2005), Greg Eschenauer, Pharm.D. (2005-2006), Dorothy (Surowiec) McCoy, Pharm.D., Jason Pogue, Pharm.D. (2007-2008); Natasha Pettit, Pharm.D.

PGY2 Residency mentor / co-mentor (writing project): Pamala Colburn Jacobson, PharmD; Daryl D. DePestel, Pharm.D.; Greg Eschenauer, Pharm.D.; Dorothy (Surowiec) McCoy, Pharm.D.; Jason Pogue, Pharm.D.; Loretta Chiu, Pharm.D.; Shu-Lin (Wendy) Lin Pharm.D; Margaret (Mei) (Jorgenson) Pharm.D; Natasha Pettit, Pharm.D.; Alex Fohl, Pharm.D. (PGY2 Critical Care);

PGY1 Assigned mentor: Brad Williams, Pharm.D. (2012-2013); Emily Ashjian, Pharm.D. (2013-2014); Bonnie Kaminsky, Pharm.D. (2014-2015); Nada Farhat, Pharm.D. (2015-2016); Anthony Boyd, (2016-2017), Cory Smith, Pharm.D.; Megan Lim, Pharm.D. (2017-2018); Xhilda Xhimali, Pharm.D. (2018-2019); Yee Ann Chen, Pharm.D. (2019-2020); Taylor Coe, Pharm.D. (2020-2021)

Faculty Mentor, PGY1 and PGY2 Residency Teaching Assignments

Development and presentation of P702 computer simulation ('SIM') cases and MC 700 Capstone session cases, development of P702 Lab cases for Standardized patient exams): PGY2 ID Residents: William Alegria, Pharm.D., (PGY2 ID 2017-2018); Alison Lew, Pharm.D. (PGY2 Critical Care 2018-2019); Nikki Tran, Pharm.D. (PGY2 ID 2019-2020)

P501 Introduction to pharmacy: Phani Ghanakota, PhD student (2014); Bansri Desai, Pharm.D. (PGY1 BCBS 2015-2016); Jacob A. Chaffee, Pharm.D. (PGY1 BCBS 2016-2017); Joseph Galanto, Pharm.D. (PGY1 BCBS 2017-2018); Salley Park, Pharm.D. (PGY1 BCBS 2018-2019); Alyssa Guest, Pharm.D. (PGY1 BCBS 2019-2020); Julia Mahler, Pharm.D. (PGY1 BCBS 2020-2021)

COMMITTEES (University of Michigan)

19__ - present	Residency Advisory Committee (RAC), College of Pharmacy Representative
2017 - 2020	Senate Assembly Representative (Alternate)
199_ - present	Admissions Committee
2017 – present	Admissions Committee co-chair

RESEARCH PUBLICATIONS

VanDorf S, Carver PL The risk of oral or topical antimicrobials for the development of *Clostridium difficile* colitis (submitted).

Schneeweiss S, Carver PL, Datta K, Galar A, Johnson MD, Letourneau AR, Marty F, Nagel J, Najdzinowicz M, Saul M, Schuster M, Shohan S, Silveira F, Varughese C, Wilck M, Weatherby L, Van Oene J, Walker AM. Long-term risk of hepatocellular carcinoma mortality in 23,220 hospitalized patients treated with micafungin or other parenteral antifungals. *J Antimicrob Chemother* 2019 Oct 3. pii: dkz396. doi: 10.1093/jac/dkz396. [Epub ahead of print]. PMID: 31580432

Eschenauer GA, Carver PL, Patel TS, Lin SW, Klinker KP, Pai MP, Lam SW. Survival in Patients with *Candida glabrata* Bloodstream Infections is Associated with Fluconazole Dose. *Antimicrob Agents Chemother*. 2018 May 25;62(6) doi: 10.1128/AAC.02566-17. [Epub ahead of print] PMID: 29581112. 2018 May 25;62(6). Print 2018 Jun.

López-Medrano F, Fernández-Ruiz M, Silva JT, Carver PL, van Delden C, Merino E, Pérez-Saez MJ, Montero M, Coussement J, de Abreu Mazzolin M, Cervera C, Santos L, Sabé N, Scemla A, Cordero E,

Cruzado-Vega L, Martín-Moreno PL, Len Ó, Rudas E, Ponce de León A, Arriola M, Lauzurica R, David M, González-Rico C, Henríquez-Palop F, Fortún J, Nucci M, Manuel O, Paño-Pardo JR, Montejo M, Muñoz P, Sánchez-Sobrino B, Mazuecos A, Pascual J, Horcajada JP, Lecompte T, Moreno A, Carratalà J, Blanes M, Hernández D, Del Fariñas MC, Andrés A, Aguado JM. Multinational case-control study of risk factors for the development of late invasive pulmonary aspergillosis following kidney transplantation. *Clin Mic Infect*; 2018;24(2), 171-174. online June 23, 2017. pii: S1198-743X(17)30335-X. doi: 10.1016/j.cmi.2017.06.016.

Carver PL, Veltman K. Risk factors for *Candida dubliniensis* fungemia. submitted.

Schneeweiss S, Carver PL, Datta K, Galar A, Johnson MD, Johnson MG, Marty FM, Nagel J, Najdzinowicz M, Saul M, Shoham S, Silveira FP, Varughese CA, Wilck M, Weatherby L, Auton T, Walker AM. Short-term risk of liver and renal injury in hospitalized patients using micafungin – A multicenter cohort study. *J Antimicro Chemother* 2016;71:2938-44. [Epub 2016/07/14] PMID: 27407049

López-Medrano F, Fernández-Ruiz M, Silva JT, Carver PL, van Delden C, Merino E, Pérez-Saez MJ, Montero M, Coussement J, de Abreu Mazzolin M, Cervera C, Santos L, Sabé N, Scemla A, Cordero E, Cruzado-Vega L, Martín-Moreno PL, Len Ó, Rudas E, Ponce de León A, Arriola M, Lauzurica R, David M, González-Rico C, Henríquez-Palop F, Fortún J, Nucci M, Manuel O, Paño-Pardo JR, Montejo M, Muñoz P, Sánchez-Sobrino B, Mazuecos A, Pascual J, Horcajada JP, Lecompte T, Moreno A, Carratalà J, Blanes M, Hernández D, Del Fariñas MC, Andrés A, Aguado JM. Clinical presentation and determinants of mortality of invasive pulmonary aspergillosis in kidney transplant recipients: a multinational cohort study. *Am J Transplant*. 2016;16: 3220-3234. doi: 10.1111/ajt.13837. [Epub 2016/04/24] PMID: 27105907

López-Medrano F, Fernández-Ruiz M, Silva T, Carver PL, van Deldel C; Merino E, Montero M, Coussement J, Abreu M, Cervera C, Santos L, Sabé N, Scemla A, Cordero E, Leónidas, Martín PM, Len O, Rudas E, Ponce de León A, Arriola M, Lazurica David M, Rico CG, Fernando Henríquez-Palop, Fortún J, Nucci M, Manuel O, Paño-Pardo JR, Montejo M, Muñoz P, Sánchez-Sobrino B, Mazuecos A, Fernández-Ruiz M, Horcajada JP, Lumbreras C, Moreno A, Blanes M, Hernández D, Hernández-Méndez EA, Fariñas MC, Andrés A, Aguado JM, and the Spanish Network for Research in Infectious Diseases (REIPI). Risk factors for invasive pulmonary aspergillosis in kidney transplant recipients: an international matched case-control study. *Am J Transplant* 2016 Jul;16(7):2148-57. doi: 10.1111/ajt.13735. Epub 2016 Mar 10. PMID: 26813515

Espinel-Ingroff A, Alvarez-Fernandez M, Canton E, Carver PL, Chen SC, Eschenauer G, Getsinger DL, Gonzalez GM, Govender NP, Grancini A, Hanson KE, Kidd SE, Klinker K, Kubin CJ, Kus, JV, Lockhart SR, Meletiadiis J, Morris AJ, Pelaez T, Quindos G, Rodriguez-Iglesias M, Sanchez-Reus F, Shoham S, Wengenack NL, Borrell Sole N, Echeverria J, Esperalba J, Gomez Gde la Pedrosa E, Garcia Garcia I, Linares MJ, Marco F, Merino P, Peman J, Perez Del Molino L, Rosello Mayans E, Rubio Calvo C, Ruiz Perez de Pipaon M, Yague G, Garcia-Effron G, Guinea J, Perlin DS, Sanguinetti M, Shields R, Turnidge J. A multi-center study of epidemiological cutoff values and detection of resistance in *Candida* spp. to anidulafungin, caspofungin and micafungin using the Sensititre(R) YeastOne colorimetric method. *Antimicrobial agents and chemotherapy* 2015;11:6725-32. Epub 2015/08/19. DOI 10.1128/aac.01250-15

Pettit NN, DePestel DD, Fohl A, Eyley R, Carver PL. Risk Factors for Systemic Vancomycin Exposure Following Administration of Oral Vancomycin for the Treatment of *Clostridium difficile* Infection. *Pharmacotherapy: The Journal of Human Pharmacology and Drug Therapy*. 2015;35(2):119-126. doi: 10.1002/phar.1538.

Eschenauer GA, Nguyen MH, Shoham S, Vazquez J, Morris A, Pasculle W, Kubin C, Klinker K, Carver PL, Hanson K, Chen S, Lam S, Potoski BA, Clarke L, Shields RK, Clancy CJ. Real-world experience with echinocandin MICs against *Candida* species: A multi-center study of hospitals that routinely perform susceptibility testing of bloodstream isolates. *Antimicrob Agents Chemother* 2014;58(4):1897-906.

Eschenauer GA, Carver PL, Lin SW, Klinker KP, Chen YC, Potoski BA, Shields RK, Clancy CJ, Nguyen MH, Lam SW. Fluconazole versus an echinocandin for *Candida glabrata* fungaemia: a retrospective cohort study. *J Antimicrob Chemother*. 2013 Apr;68(4):922-6. doi: 10.1093/jac/dks482. Epub 2012 Dec 4.

Antworth A, Collins CD, Kunapuli A, Klein K, Carver P, Gandhi T, Washer L, Nagel JL. Impact of an Antimicrobial Stewardship Program Comprehensive Care Bundle on Management of Candidemia. *Pharmacotherapy* 2013 Jan 25. doi: 10.1002/phar.1186. [Epub ahead of print]

Selected as a 'Top 20 Articles in Antimicrobial Stewardship, 2011 – 2013' by the Society of Infectious Diseases Pharmacists (SIDP).

Btaiche IF, Carver PL, Welch K. Dosing and Monitoring of Trace Elements in Long Term Home Parenteral Nutrition Patients. *JPEN J Parenter Enteral Nutr.* 2011 Nov;35(6):736-47. doi: 10.1177/0148607111413902. Epub 2011 Aug 8.

Pogue JL, Alaniz CA, Carver PL, Pleva M, Newton D, DePestel DD. Role of unit-specific combination antibiograms for improving the selection of appropriate empiric therapy for gram-negative pneumonia. *Infection Control and Hospital Epidemiology*, 2011 Mar;32(3):289-92.

Foster DR, Yee S, Bleske BE, Carver PL, Shea MJ, Menon SS, Ramachandran S, Welage LS, Amidon GL. Lack of Interaction Between the Peptidomimetic Substrates Captopril and Cephadrine. *J Clin Pcol* 2009;49:360-367.

Carver PL, Lin SW, DePestel DD, Newton DW. The Impact of mecA Gene Testing and Infectious Diseases Pharmacists' Intervention on the Time to Appropriate Antimicrobial Therapy for *Staphylococcus aureus* Bacteremia at a University Hospital. *Journal of Clinical Microbiology* 2008; 46:7: 2381-3. Published ahead of print on 7 May 2008, doi:10.1128/JCM.00801-08.

Surowiec D, DePestel DD, Carver PL. Concurrent Use of Sirolimus and Voriconazole: a Pilot Study Assessing Safety and Approaches to Appropriate Management. *Pharmacotherapy* 2008;28(6):719-729.

Malani A, Hmoud J, Chiu L, Carver PL, Bielaczyc A, Kauffman CA. *Candida glabrata* fungemia: Experience in a tertiary care center. *Clin Infect Dis* 2005;41:975-81.

DePestel DD, Kazanjian P, Cinti S, Kauffman CA, Carver PL. Magnitude and Duration of Elevated Gastric pH in Patients Infected with Human Immunodeficiency Virus After Administration of Chewable, Dispersible, Buffered Didanosine Tablets. *Pharmacotherapy* 2004;24(11):1539-1545.

Carver PL, Whang E, VandenBussche HL, Kauffman CA, Malani P. Risk Factors for Arthralgias or Myalgias associated with Quinupristin-Dalfopristin. *Pharmacotherapy* 2003; 23(2): 47-53.

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Carver PL. In sickness and in Health: Exploring Relationships between Plasma Metal Ions and the Development of Infectious Diseases. 256th American Chemical Society National Meeting, ACS Award for Distinguished Service in the Advancement of Inorganic Chemistry: Symposium in Honor of Debbie C. Crans, Orlando, Florida. March 2019.

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Carver, PL. 'Summer School' in Inorganic Medicinal Chemistry. 4 hours lecture to European PhD students on the following research : 'The Role of Trace Metal Ions in the Development of Infectious Diseases' and 'Clinical Evaluation of Drug Interactions: Translation of Information from the Chemist's Bench to the Patient's Bedside'. Sardinia, Italy. September, 2015.

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The Role of Trace Metal Ions (TEs) in the Development of Infectious Diseases. Invited Research Presentation. Invited Research Presentation. Department of Pharmaceutical Sciences. Wayne State School of Pharmacy, March 2015.

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Plasma Concentrations of Trace Metal Ions: Correlation with the Development of Infectious Diseases in Long Term Home Parenteral Nutrition Patients. L'hôpital Saint Antoine and the l'Université Pierre et Marie Curie, à l'Ecole Normale Supérieure et au CNRS et la Sorbonne. Paris, France. May 2012.

Plasma Concentrations of Trace Metal Ions: Correlations with the Development of Infectious Diseases in Long Term Home Parenteral Nutrition Patients. 15th International Conference on Biological Inorganic Chemistry 15 (ICBIC 15). Vancouver, BC. August 2011.

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Fungemia caused by Candida glabrata: Relationship between Antifungal Susceptibility, Dose, and Outcomes. Paul Ehrlich World Conference on Magic Bullets. Nürnberg, Germany. September, 2004.

Computer-assisted Instruction (CAI) to Develop "Clinical Thinking" Skills. Center for Research on Learning and Teaching. University of Michigan Provost's Seminar. Ann Arbor, MI. October 2001.

Research Summary: Drug Absorption and Drug Interactions with Azole Antifungals. ACCP ID PRN meeting, ACCP Spring Forum. Monterey, CA. March 2000.

Azole Absorption: effects of pH, food, and disease state. University of Michigan Clinical Research Center. Lecture to nurses, physicians, and pharmacists affiliated with the GCRC. October 1999.

Drug Interactions in the HIV-infected Patient. The Pharmacy Society, Basel, Switzerland. June 1999.

University of Münster. Drug Absorption in the HIV-infected Patient: a multi-faceted problem. Münster, Germany. June 1999.

- Absorption of Azole Antifungal Agents in HIV-infected Patients. Research seminar. Clinical Research Center Physicians, Nurses, and Staff, University of Michigan Medical Center. October 1998.
- Clinical Applications of Cytochrome P450. University of Grenoble College of Pharmacy and School of Medicine. Grenoble, France. May 1998.
- Absorption Studies in AIDS and Antifungal Pharmacodynamics. Invited Seminar, Merck & Co., Rahway NJ. April 1997.
- The Effect of Food and Gastric pH on the Absorption of Itraconazole in HIV-infected Patients. University of Washington AIDS Clinic. August, 1996.
- Formulary Decisions with Extended Spectrum Cephalosporins. Teleconference (25 sites), Ann Arbor, MI. June 1996.
- Resistance to Antifungal Agents. California Society of Health-System Pharmacists Annual Meeting. Palm Springs, CA. October 1995.
- Altered Pharmacokinetics and Adverse Drug Reactions in HIV-Infected Patients. University of Michigan College of Pharmacy Annual Pharmacy Lectures. Ann Arbor, MI. October 1995.
- The Treatment of Fungal Disease in the Cancer Patient. American College of Clinical Pharmacy Annual Meeting. Washington, DC. Aug 1995.
- Drug Interactions and Absorption of Antifungal Agents. Southeastern Michigan Pharmacists Research Spotlight. Dearborn, MI. April 1995
- Update on Antifungals. California Society of Hospital Pharmacists Midyear Focus Session. San Francisco, CA, March 1995.
- Fungal Infections in the Cancer Patient. Fungal Consensus Conference. Vail, CO. Feb 1995.
- The Treatment of Fungal Disease in the Cancer Patient. Michigan Pharmacists Association Interim Meeting. Dearborn, MI. February 1995.
- Altered Pharmacokinetics and Adverse Drug Reactions in HIV-infected Patients. American Society of Hospital Pharmacists Midyear Clinical Meeting. Miami, FL. December 1994.
- In Vitro and In Vivo Interactions between Ketoconazole and Sucralfate. Research Seminar. University of Michigan College of Pharmacy. April 1992.
- Research Seminar. Presented to Infectious Diseases SPG Group. American Society of Hospital Pharmacists Midyear Clinical Meeting. New Orleans, LA. December 1991.
- Session Moderator. Authoring Systems for Computer-assisted Instruction. IBM Academic Computing Conference. Miami, FL, June 1990.
- Use of Computer Assisted Instruction to Review Microbiology and Antimicrobial Agents. IBM Academic Computing Conference. Miami, FL, June 1990.
- Clinical Interpretation of Laboratory Tests in Infectious Diseases. American Society of Hospital Pharmacists Midyear Clinical Meeting. Atlanta, GA. December 1989.
- Computer-assisted Instruction in Pharmacy and Medicine. EDUCOM Annual Conference, Ann Arbor, MI, October 1989.

SCIENTIFIC ABSTRACT PRESENTATIONS

- VanDorf S, Carver PL The risk of oral or topical antimicrobials for the development of Clostridium difficile colitis (CDI).
- Caramagno D, Carver PL, Lin SW. Real-world evaluation of QTc prolongation in hematopoietic stem cell transplant patients on antifungal therapy. ASHP Midyear, December, 2018. Anaheim CA.
- Van Dorf S, Carver PL, Eschenauer GE. Fluconazole Versus an Echinocandin for Candida albicans Fungemia. MICHRS Summer Research program Poster session (oral presentation and poster). August 2018.

Carver PL, Michael C, Facchini V, Koseck A, Edge C, Nagel J. Evaluating the Impact of Long-Term Outpatient Ertapenem (ETP) versus Ceftriaxone (CTX) on Clinical Success and Development of Resistance for Documented Enterobacteriaceae Infections. Abstract 65528. IDWeek, October 2017. San Diego, CA.

Carver PL. Plasma Cu/Zn ratios Correlate with the Development of Infectious Diseases in both Healthy and Acutely Ill Patients. 10th International Copper Meeting 2016. September, 2016. Sorrento, Italy.

Carver PL. Infections Associated with Intravenous Iron Administration in Hospitalized Patients with Acute Heart Failure. XIII International Symposium on Inorganic Biochemistry. Karpacz, Poland. September, 2015.

Carver PL, Thomas S. Risk Factors for Increased Bilirubin (bili) with Antifungal (AF) Agents. ASM Microbe. San Diego, CA. September 2015.

Schneeweiss S, Carver, P, A. Galar, M. Johnson, F. Marty, J. Nagel, F. Silveira, S. Shoham, C. Varughese, M. Wilck, L. Weatherby, A. Walker. Multicenter Cohort Study of the Safety of Micafungin and Other Parenteral Antifungals. ASM Microbe. San Diego, CA. September 2015

Carver PL. Infections Associated with Intravenous Iron Administration in Hospitalized Patients with Acute Heart Failure. 17th International Conference on Biological Inorganic Chemistry (ICBIC17). Beijing, China. August, 2015.

Carver PL, Kaminsky B, Pogue K, Dorsch M, Hanigan S, Koelling T. Infections Associated with Intravenous Iron Administration in Hospitalized Patients with Acute Heart Failure. 13th International Symposium on Applied Bioinorganic Chemistry (ISABC13), June 2015, Galway Ireland.

Carver PL. Correlation of trace metal ions and the development of infectious diseases in acutely ill hospitalized patients. 12th European Biological Inorganic Chemistry Conference (EuroBIC-12). Zurich, Switzerland. August 2014. [Invited speaker, in Metals in Medicine, and **session chair**]

F. Lopez-Medrano, J.T. Silva, P. Carver, C. van Deldel, E. Merino, M. Montero, J. Coussement, M. Abreu, C. Cervera, L. Santos, N. Sabé, A. Scemla, E. Cordero, M. Blanes, P.L. Martin, Ó. Len, E. Rudas, A. Ponce de León, J.M. Aguado. Risk factors for invasive pulmonary aspergillosis (IPA) in kidney-transplant (KT) recipients: an international case-control study. P1230. ECCMID: European Society of Clinical Microbiology and Infectious Diseases. Copenhagen, Denmark. April 2015.

Fan D, Kang L, Carver PL. The impact of pharmacy experience on the Top 200 Drug Exam. ASHP Midyear, December, 2014. Anaheim CA.

Chung S, Kim S, Jiwanmall L, Luczak C, Carver PL. Antifungal Therapeutic Drug Monitoring in Hematopoietic Stem Cell Transplant Patients: Real World Comparison of the Time to Therapeutic Levels of Posaconazole and Voriconazole. ASHP Midyear, December, 2014. Anaheim CA.

Carver, PL, Thomas S. Risk Factors for Increased Bilirubin (bili) with Antifungal (AF) Agents. ASHP Midyear, December, 2014. Anaheim CA.

Kim S, Chung S, Jiwanmall L, Luczak C, Carver PL. Antifungal therapeutic drug monitoring in hematopoietic stem cell transplant patients: real world comparison of the time to therapeutic levels of posaconazole and voriconazole. ACCP Annual Meeting, Austin, TX. October 2014.

Carver PL. Correlation of trace metal ions and the development of infectious diseases in acutely ill hospitalized patients. 12th European Biological Inorganic Chemistry Conference (EuroBIC-12). Zurich, Switzerland. August 2014. [Invited lecture, in Metals in Medicine, and session chair]

Carver PL. Trace Metal Ions (TEs) and the Development of Infectious Diseases in Acutely Ill Hospitalized Patients. XVII Brazilian Meeting on Inorganic Chemistry. Araxa, Brazil. August 2014. [**Keynote speaker**]

Carver PL. Trace Metal Ions (TEs) and the Development of Infectious Diseases: a role for Mn? 12th international symposium on Bioinorganic Chemistry, Wroclaw, Poland. August 2013 [**Keynote speaker**]

The Evolving Role of the Infectious Diseases Pharmacist in Clinical Research and Antimicrobial Stewardship. Universidad Nacional de Rosario, April 2013.

Carver PL. Correlations between Trace Metal Ions (TEs) and the Development of Infectious Diseases in Home Parenteral Nutrition Patients. 12th international symposium on Metal Ions in Biology and Medicine, Punta del Este, Uruguay. March 2013. [**Keynote speaker**]

Diez HL, Remington T, Mason N, Tingen J, Wells T, Ramaswamy V, Carver PL, Bleske BE, Ellingrod VL. Pharmacy Students Performance Comparing Team Based Learning and a Traditional Didactic Pedagogy. Team Based Learning Conference, San Diego, CA. February 2013.

Isip J, Carver PL. Implementation of the peptide nucleic acid fluorescence in situ hybridization (PNA FISH) assay in the identification of *Candida* in clinical practice. American Society of Health-System Pharmacists Midyear Clinical Meeting. Las Vegas, NV. Dec. 2012.

Veltman K, Carver PL. Risk Factors for *Candida dubliniensis* Bloodstream Infections. IDWeek: A Joint Meeting of IDSA, SHEA, HIVMA, and PIDS. San Diego, CA. October 2012.

Carver PL, DePestel DD, Pettit NN, Fohl A, Eyer R. Risk Factors Associated with Systemic Absorption of Oral Vancomycin (POV) in the Treatment of *Clostridium difficile* Colitis (CDAD). IDWeek: A Joint Meeting of IDSA, SHEA, HIVMA, and PIDS. San Diego, CA. October 2012. Abstract #1637.

Carver PL, Dang K, Dekarske BM, Rudoni MA, Rutherford D, Zechmeister C. Evaluation of a Unit-specific vs Hospital-Wide Fungal Antibiogram for *Candida* species. 17th Symposium on Infections in the Immunocompromised Host (ICHS) meeting. Genoa, Italy. June 2012.

Veltman K, Carver PL. Risk Factors for *Candida dubliniensis* Bloodstream Infections. Institute for Clinical and Health Research student poster session. Ann Arbor. March 2012.

Fluconazole versus echinocandin for *Candida glabrata* fungemia. Eschenauer GA, Nguyen MH, Lin S, Klinker KP, Chen Y, Carver PL, Shields RK, Potoski BA, Clancy CJ, Lam SW. Society for Critical Care Medicine (SCCM) Meeting, Houston, TX. February 2012.

Carver PL, Btaiche IF, Welch K. Carver Plasma Concentrations of Trace Metal Ions: Correlations with the Development of Infectious Diseases in Long Term Home Parenteral Nutrition Patients. 15th International Conference on Biological Inorganic Chemistry 15 (ICBIC 15). Vancouver, BC. August 2011.

Antworth A, Collins CD, Kunapuli A, Klein K, Carver PL, Gandhi T, Washer L, Nagel JL. Impact of a Comprehensive Care Bundle on the Management of Candidemia by an Antimicrobial Stewardship Team. ASHP Clinical Midyear Meeting. New Orleans, LA. December 2011. [resident poster] and Great Lakes Pharmacy Residency Conference. West Lafayette, IN. May 2011. [oral presentation]

Bertone F, Bertone S, Carver PL, Ellingrod VL. Genetic polymorphisms of antifungal agents: Caspofungin and OATP-C. ASHP Clinical Midyear Meeting. Anaheim, CA. December 2010. [student poster]

Carver PL, Carroll MA, Young C, Mahlmeister P. Impact of Peptide Nucleic Acid Fluorescence in Situ Hybridization (PNA FISH) and Fluconazole Susceptibility Testing (FLU-ST) On the Time to Appropriate (AAT) and Optimal (OAT) Antifungal Therapy (Tx) for *Candida* Blood Stream Infections (BSIs). 48th Annual Meeting of the Infectious Diseases Society of America (IDSA), October 2010, Vancouver, BC. Canada. [poster]

Carver PL, Btaiche IF, Welch K. The Role of Trace Metal Ions in Infectious Diseases: Correlation of Trace Element (TE) Concentrations with Infections in Patients Undergoing Long-Term Home Total Parenteral Nutrition (TPN). XI International Symposium on Inorganic Biochemistry Challenge for all Generations. Kudowa Zdrój, Poland, September 2010. [invited speaker]

Btaiche IF, Carver PL, Welch K. Trace elements supplementation and monitoring in home parenteral nutrition patients. ESPEN 2010, Nice, France. September 2010. Abstract # PP429. [selected as **Outstanding Poster**]

Carver PL, Btaiche IF, Welch K, Bickley SK, Tharp J. The Role of Trace Metal Ions in Infectious Diseases: Correlation of Trace Element (TE) Concentrations with Infections in Patients Undergoing Long-Term Home Total Parenteral Nutrition (TPN). Metals in Medicine Medicinal Inorganic Chemistry Gordon Conference, June 27 -July 2, 2010, Proctor Academy, Andover, NH, June 2010. [invited speaker]

Carver PL, Btaiche IF, Welch K, Bickley SK, Tharp J. The Role of Trace Metal Ions in Infectious Diseases. Eurobic, Thessaloniki, Greece, June 2010. [invited lecturer and **session chair**]

Carroll M, Carver PL. Impact of the addition of PNA FISH to fluconazole susceptibility testing on time to optimal antifungal therapy for *Candida* BSIs at UMHS. American Society of Health-System Pharmacists Midyear Clinical Meeting. Las Vegas, NV. University HealthSystem Consortium Pharmacy Council Poster Session. Las Vegas, NV. Dec., 2009. and Great Lakes Pharmacy Residency Conference. West Lafayette, IN. May 2010.

Carver PL, Btaiche IF, Welch K, Bickley SK, Tharp J, Al-Wishah H. The Role of Trace Element and Iron Concentrations in the Development of Infections in Patients Undergoing Long-Term Home Total Parenteral Nutrition (TPN). University of Paris XI, November, 2009, Paris, France.

Pettit N, DePestel DD, Carver PL. Therapeutic Drug Monitoring in Patients Receiving Oral Vancomycin Therapy for the Treatment of Severe Clostridium difficile-associated Diarrhea. American Society of Health-System Pharmacists Midyear Clinical Meeting. Las Vegas, NV. University HealthSystem Consortium Pharmacy Council Poster Session. Las Vegas, NV. Dec., 2009, and Great Lakes Pharmacy Residency Conference. West Lafayette, IN. May 2010.

Carver PL, Btaiche IF, Welch K, Bickley SK, Tharp J, Al-Wishah H. Correlation of Zinc Plasma Concentrations with Infection in Patients Undergoing Long-Term Home Total Parenteral Nutrition (TPN). Zing Coordination Chemistry Conference. March 2009, Antigua.

Sutherland A, Carver PL, Frame DL. Risk Factors For Voriconazole-Associated Neurological Adverse Effects (AEs). American Society of Health-System Pharmacists Midyear Clinical Meeting. Orlando, FL and University HealthSystem Consortium Pharmacy Council Poster Session. December 2008, and Great Lakes Pharmacy Residency Conference. West Lafayette, IN. May 2009.

Bertone F, Carver P, Ellingrod V. Genetic polymorphisms of antifungal agents: Caspofungin and OATP-C. University of Michigan MICH / MCRiT poster session. October 2008.

Carver PL, Srodawa A, Suchak M, King J, Kauffman CA. Candida glabrata (Cg) Fungemia in an Era of Echinocandins (EC): The Impact of Fluconazole (FLU) Resistance (R) and the Selection of Appropriate (APP) Empiric Therapy (Rx). ICAAC 2008 Washington DC.

Carver PL, Btaiche IF, Welch K, Bickley SK, Tharp J, Al-Wishah H. The role of selenium in Infections in Patients Undergoing Long-Term Home Total Parenteral Nutrition (TPN). "Metals in health and environment. "Third International Meeting of the Institute of Metals in Biology of Grenoble (IMBG). Autrans, France. September 2008. (Selected for oral presentation)

Carver PL, Btaiche IF, Bickley SK, Tharp J, Al-Wishah H. Plasma Concentrations of Trace Metal Ions and their Correlation with Infection in Patients Undergoing Long-Term Home Total Parenteral Nutrition (TPN). 4th International Conference on Metals and Genetics (ICMG 2008), Paris, July 2008. (Selected for oral presentation)

Pogue JL, DePestel DD, Carver PL, Alaniz CA, Pleva M. Incorporating Local Susceptibility Data to Improve Empiric Gram-negative Antimicrobial Therapy. Great Lakes Pharmacy Residency Conference. West Lafayette, IN. May 2008.

Pogue JL, DePestel DD, Carver PL, Alaniz CA, Pleva M. Determination of optimal antibiogram data to utilize in optimizing empiric antimicrobial regimens for hospital-acquired pneumonia (HAP) and bacteremia. American Society of Health-System Pharmacists Midyear Clinical Meeting. Las Vegas, NV. December 2007.

Seif M, Kauffman C, Srodawa A, King J, Suchak M, Carver P. Antifungals for the treatment of Candida glabrata blood stream infections (BSIs). American Society of Health-System Pharmacists Midyear Clinical Meeting. Poster SP278. Las Vegas, NV. December 2007.

Seif M, Kauffman C, Srodawa A, King J, Suchak M, Carver P. Antifungals for the treatment of Candida glabrata blood stream infections (BSIs). The University of Michigan Medical School Summer Biomedical Research Program Fall Forum. Poster 99. Ann Arbor, MI. November 2007.

Surowiec D, Daryl DePestel DD, Carver PL. A Review of the Concurrent Use of Sirolimus and Voriconazole: a Pilot Study. 47th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). Chicago, IL. Sept 2007. [Written up in Renal and Urology News Nov 2007; see <http://www.renalandurologynews.com/sirolimus-voriconazole-can-be-safe/article/99097/>]

Clinical Evaluation of Drug Interactions: Translation of Information from the Chemist's Bench to the Patient's Bedside. 13th International Conference on Biological Inorganic Chemistry (ICBIC). July 19, 2007, Vienna Austria. (published abstract)

Surowiec D, Daryl DePestel DD, Carver PL. A Review of the Concurrent Use of Sirolimus and Voriconazole: a Pilot Study. Making a Difference (MAD-ID) Meeting. Orlando, FL. May 10-13, 2007. Winner - "Best Poster" Award, And Great Lakes Pharmacy Residency Conference. West Lafayette, IN. April 2005.

Surowiec D, Daryl DePestel DD, Carver PL. A Review of the Concurrent Use of Sirolimus and Voriconazole: a Pilot Study. University Hospital Consortium, and at the ASHP Midyear Clinical Meeting Resident Poster Sessions. December, 2006, Anaheim, Ca.

Carver PL. Hepatic safety of concomitant caspofungin (CAS) and cyclosporine (CSA). International Society for Human and Animal Mycology (ISHAM). Paris, Fr. June 2006.

Eschenauer GA, Kraft M, DePestel DD, Carver P. Effect of continuous enteral nutrition on the bioavailability of itraconazole oral solution. Making a Difference (MAD-ID) Meeting, Orlando, FL. April 2006.

Carver PL, Lin SW, Newton D, DePestel DD. Impact of mecA Gene Testing plus ID Pharmacist (RPh) Intervention on Time to Optimal Antimicrobial Therapy (OAT) for Staphylococcus aureus Bacteremia (SAB). Making a Difference (MAD-ID) Meeting. Orlando, FL. May 2006.

Eschenauer GA, Kraft M, DePestel DD, Carver P. "Effect of continuous enteral nutrition on the bioavailability of itraconazole oral solution." Great Lakes Pharmacy Residency Conference. West Lafayette, IN. May 2006.

Eschenauer GA, Kraft M, DePestel DD, Carver P. "Effect of continuous enteral nutrition on the bioavailability of itraconazole oral solution." ASHP Midyear Clinical Meeting, Las Vegas, NV. December 2005.

Carver PL, Lin SW, Newton D, DePestel DD. Impact of mecA Gene Testing plus ID Pharmacist (RPh) Intervention on Time to Optimal Antimicrobial Therapy (OAT) for Staphylococcus aureus Bacteremia (SAB). 45th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). New Orleans, LA. Sept 2005.

Lin SW, DePestel DD, Newton D, Carver PL. The Impact of mecA gene testing on the Time to Appropriate Antimicrobial Therapy for Staphylococcus aureus Bacteremia (SAB). Great Lakes Pharmacy Residency Conference. West Lafayette, IN. April 2005.

Lin SW, DePestel DD, Newton D, Carver PL. The Impact of mecA gene testing on the Time to Appropriate Antimicrobial Therapy for Staphylococcus aureus Bacteremia (SAB). ASHP Midyear Meeting, Orlando, FL. December 2004.

Nailor MD, Carver PL, DePestel DD, Kauffman CK. Epidemiology of Scedosporium Species: Colonization or Infection? Infectious Diseases Society of America (IDSA) Annual Meeting. Boston, MA. October 2004.

Fungemia caused by Candida glabrata: Relationship between Antifungal Susceptibility, Dose, and Outcomes. Paul Ehrlich World Conference on Magic Bullets. Nürnberg, Germany. September, 2004.

Nailor M, Carver PL, DePestel DD, Kauffman CK. Epidemiology of Scedosporium at a University Hospital. Great Lakes Pharmacy Residency Conference. Indianapolis, IN. April 2004.

Hmoud J, Chiu L, Carver P, Bielaczyck A, Kauffman C. Susceptibility and Outcomes of Candida Glabrata Fungemia Over 9 Years in a Tertiary Care Medical Center. American College of Clinical Pharmacy / European Society of Clinical Pharmacy 2nd International Congress on Clinical Pharmacy. Paris, France. April 2004.

Carver PL, Smith J, Vo KT. Risk factors and Incidence of Thrombocytopenia with Linezolid. American College of Clinical Pharmacy /European Society of Clinical Pharmacy 2nd International Congress on Clinical Pharmacy. Paris, France. April 2004.

Carver PL, Nailor M, DePestel DD, Kraft MD. Risk Factors For The Development Of Linezolid Resistant Enterococci. American College of Clinical Pharmacy /European Society of Clinical Pharmacy 2nd International Congress on Clinical Pharmacy. Paris, France. April 2004.

Nailor M, Carver PL, DePestel DD, Kraft MD. Risk Factors For The Development Of Linezolid Resistant Enterococci. ASHP Midyear Meeting, New Orleans, LA. December 2003.

DePestel DD, Peloquin CA, Carver PL. Peritoneal Fluid Concentrations of Linezolid in the Treatment of Vancomycin Resistant Enterococcus Faecium Peritonitis. ASHP Midyear Meeting, New Orleans, LA. December 2003.

Hmoud J, Chiu L, Carver P, Bielaczyck A, Kauffman CK. Candida Glabrata Fungemia Over 9 Years in a Tertiary Care Medical Center. 41st Annual Meeting of IDSA. San Diego, CA. October 2003.

Chiu L, Hmoud J, Carver P, Bielaczyck A, Kauffman CK Candida glabrata Susceptibilities to Antifungal Agents in a Tertiary Care Medical Center. Great Lakes Pharmacy Residency Conference. Indianapolis, IN. April 2003.

Carver PL, DePestel D, Kazanjian P, Kauffman C, Cinti. S. Assessing the Magnitude and Duration of Didanosine-Induced Elevation of Gastric pH in HIV-Infected Subjects. American College of Clinical Pharmacy Spring Meeting. Savannah, GA. April 2002. [Nominee – “Best Poster Award”]

Carver PL, DePestel D, Kazanjian P, Kauffman C, Cinti. S. Assessing the Magnitude and Duration of Didanosine-Induced Elevation of Gastric pH in HIV-Infected Subjects. 41st Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). Chicago, IL. Dec 2001.

Carver PL, VandenBussche H, Kauffman CA, Whang E, Malani P. Quinupristin/Dalfopristin Risk factors for Arthralgias and Myalgias. American College of Clinical Pharmacy Annual Meeting, Tampa, FL. October 2001.

DePestel D, Carver PL, Kazanjian P, Kauffman C, Cinti. S. Assessing the Magnitude and Duration of Didanosine-Induced Elevation of Gastric pH in HIV-Infected Subjects. Making a Difference (MAD) Conference. Orlando, FL. May 2001.

DePestel D, Carver PL, Kazanjian P, Kauffman C, Cinti. S. Assessing the Magnitude and Duration of Didanosine-Induced Elevation of Gastric pH in HIV-Infected Subjects. Great Lakes Residency Conference. Madison, WI. April 2001.

DePestel D, Carver PL, Kazanjian P, Kauffman C, Cinti. S. Assessing the Magnitude and Duration of Didanosine-Induced Elevation of Gastric pH in HIV-Infected Subjects. Annual Infectious Diseases Pharmacotherapy Fellowship Forum. Chicago, IL. March 2001.

Drug Absorption and Drug Interactions with Azole Antifungals. ACCP ID PRN meeting, ACCP Spring Forum, Monterey, CA. March 2000.

Carver P, Kwon L, Marquard K, Lenaerts T, Snook J, So C. Food effects on indinavir absorption in HIV-infected patients.. ASHP Midyear Meeting, Orlando, FL. December 1999.

Klepser ME, Lewis RE, Ernst EJ, Petzold CR, Bailey EM, Burgess DS, Carver PL, Lacy MK, Mercier RC, Nicolau DP, Zhanel GG, Pfaller MA. Multicenter Evaluation of Standardized Methods for Conducting Antifungal Time-Kill Studies. 39th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). Abstract #2117. San Francisco, CA. Sept 1999.

Carver PL, Kauffman CA, Cheng CL, Smith DE, Cox SR, Watkins PB, Blake DS. Inhibition of cytochrome P4503A4 by delavirdine: use of the erythromycin breath test. International Conference on Metals in Biology, Corfu, Greece, May 1999.

Li C, Carver P, Kaul D, Kazanjian P, Fleisher D. Effect of Meal Components on the Absorption of Indinavir in AIDS. AAPS Annual Meeting, November 1998.

Carver P, Li C, Kaul D, Kazanjian P, Fleisher D. Effect of Meal Components on the Absorption of Indinavir in HIV-infected Patients. Society of Infectious Diseases Pharmacists Annual Meeting, San Diego, CA. Sept 1998.

Carver PL, Welage LS, Kauffman CA. The Effect of Food and Gastric pH on the Oral Bioavailability of Itraconazole in HIV+ Patients. 36th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). Abstract #A031 (oral presentation). New Orleans, LA. Oct 1996.

Cheng CL, Smith DE, Cox SR, Watkins PB, Blake DS, Carver PL, Kauffman CA, Meyer K, Amidon GL, Stetson PL. Correlation Between ERMBT and Oral Exposure to Delavirdine Mesylate in HIV-Positive Patients. 36th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). Abstract #A057. New Orleans, LA. Oct 1996.

Cheng CL, Smith DE, Cox SR, Watkins PB, Blake DS, Carver PL, Kauffman CA, Meyer K, Amidon GL, Stetson PL. Correlation Between ERMBT and Oral Exposure to Delavirdine Mesylate in HIV-Positive Patients. American Association of Pharmaceutical Scientists (AAPS) Annual Meeting, New Orleans, LA. November 1995.

Carver PL, Kauffman CA, Welage LS. Altered Gastric Acidity and Absorption of Azole Antifungal Agents in HIV-Infected Patients. Trends in Invasive Fungal Infections 3. Brussels, Belgium. September 1995.

Carver PL, Partipilo ML, Przybylski K, Acker TL. Influence of Dosing Schedule and Time to Maximal Absorption on the Bioavailability of Temafloxacin. American College of Clinical Pharmacy Annual Meeting. Saint Louis, MO. August 1994.

Carver PL, Hoeschele JD, Kauffman CA, Partipilo ML, Mercer BT, Pecoraro VL. Fluconazole: A Model Compound for In Vitro and In Vivo Interactions with Sucralfate. American College of Clinical Pharmacy Annual Meeting. Saint Louis, MO. August 1994.

Welage LS, Carver PL. Antibacterial activity of Sucralfate (SUC) versus Aluminum Chloride (AL) in Simulated Gastric Fluid (SGF). NATO Conference on Metals in Biological Systems. Rhodes, Greece, June 1994.

Carver PL, Welage LS, Kauffman CA, Welch K, K. Jorgensen, Pierson C, Revankar S. Alterations in Gastric pH and Gastric Microbial Colonization in HIV-Infected Patients. 33rd Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). Abstract #1698. New Orleans, LA. Oct 1993.

Carver PL. Effect of pH, Concentration, and Time of Exposure on the Postantibiotic Effect (PAE) of Combinations of Antifungal Agents. 33rd Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). Abstract #659. New Orleans, LA. Oct 1993.

Welage LS, Carver PL. Antibacterial activity of Sucralfate (SUC) versus Aluminum Chloride (AL) in Simulated Gastric Fluid (SGF). American College of Clinical Pharmacy Annual Meeting, August 1993, Reno NV.

Carver PL, Welage LS. Bacterial Adherence to the Surface of Nasogastric Tubes (NGT) in Simulated Gastric Fluid (SGF). American College of Clinical Pharmacy Annual Meeting, August 1993, Reno NV.

Acker TL, Przybylski K, Partipilo ML, Carver PL. Evaluation of the Dependence of Dosing Schedule and Time to Maximal Absorption on the Bioavailability of Temafloxacin. American Society of Hospital Pharmacists Clinical Midyear Meeting, December 1992, Orlando FL.

Yee S, Bleske BE, Carver PL, Shea MJ, Stetson PL, Amidon GL. Captopril Pharmacokinetics in Normal Subjects. Sixth Japanese-American Conference on Pharmacokinetics and Biopharmaceutics. University of New York at Buffalo, August 1992, Buffalo, NY.

Grillo NL, Collins CL, Carver PL. Intravenous Amphotericin B in the Home Care Setting. American Society of Hospital Pharmacists Midyear Clinical Meeting. December 1991, New Orleans, LA.

Carver PL, Bleske BB, Sinko P, Amidon GL. The Interaction Between Captopril and Cephadrine in Healthy Volunteers. American College of Clinical Pharmacy Annual Meeting. Minneapolis, MN. August 1991.

Carver PL, Berardi RR, Rider JM, Knapp MJ, Kauffman CA. In Vivo Interaction of Ketoconazole and Sucralfate in Healthy Volunteers. American College of Clinical Pharmacy Winter Practice and Research Forum. Ft. Lauderdale, FL. February 1991.

Carver PL, Welage LS. An In Vitro Study to Assess the Effect of pH on the Growth of Bacteria in Simulated Gastric Fluid. American College of Clinical Pharmacy Winter Practice and Research Forum. Ft. Lauderdale, FL. February 1991.

Carver PL, McGillicuddy J, Fekety RF, Moore ES. Penetration of Cefuroxime Into Bone, Brain Tissue, and CSF in Uninflamed Meninges. American College of Clinical Pharmacy Annual Meeting. San Francisco, CA. August 1990.

Bleske BE, Carver PL, Annesley TM, Bleske JRM, Morady F. The Effect of Ciprofloxacin on the Pharmacokinetic and ECG Parameters of Quinidine. American College of Clinical Pharmacy Annual Meeting. San Francisco, CA. August 1990.

Knapp MJ, Berardi RR, Carver PL, Dressman JB, Rider JM. Modification of Gastric pH with Oral Glutamic Acid. American Society of Hospital Pharmacists Annual Meeting. Boston, MA. June 1990.

Carver PL, Harris EM, Novak JC. CAI: A Review of Microbiology and Antimicrobial Agents. IBM Academic Computing Conference. Miami, FL. June 1990.

LeBlanc KL, Welage LS, Carver PL. Evaluation of an In Vitro Interaction Between Norfloxacin With Sucralfate and Aluminum. Great Lakes Residency Seminar. Indianapolis, IN. April 1990.

Brown CM, Carver PL, Welage LS. Influence of pH on the Growth of Streptococcus faecalis in Simulated Gastric Fluid. Great Lakes Residency Seminar. Indianapolis, IN. April 1990.

Knapp MJ, Berardi RR, Carver PL, Dressman JB, Rider JM. Modification of Gastric pH With Oral Glutamic Acid. Great Lakes Residency Seminar. Indianapolis, IN. April 1990.

Thoene DJ, Carver PL, Bleske BE, Sinko PJ, Amidon GL. Interaction Between Captopril and Cephradine in Healthy Volunteers. Great Lakes Residency Seminar. Indianapolis, IN. April 1990.

Stumpf JS, Carver PL. Norfloxacin Interference with Urine Glucose Tests. American Society of Hospital Pharmacists Midyear Clin Mtg. Atlanta, GA. Dec 1989.

Carver PL, Harris EH, Novak J. Computer Assisted Instruction: A Review of Antimicrobial Agents and Microbiology. EDUCOM '89. Ann Arbor, MI, October 1989.

Carver PL, Harris EM, Novak JC. Computer-assisted Instruction: A Review of Microbiology and Antimicrobial Agents. American Association of Colleges of Pharmacy Annual Meeting. Portland, OR. July 1989.

Atassi M, Carver PL, Berardi RR. In Vitro Interaction Between Ketoconazole and Sucralfate. American Society of Hospital Pharmacists Midyear Clin Mtg. Dallas, TX. Dec 1988.

Colburn P, Carver PL, Montgomery PA, Chaffee BW, Alaniz C. Appropriate But Not Cost Effective Cefazidime Use at a University Hospital. American Society of Hospital Pharmacists Midyear Clin Mtg. Dallas, TX. Dec 1988.

Kinzie B, Carver PL, Cody R. A Double Blind Cross-over Study of Conventional Versus Rapid Infusion Amphotericin B Intravenous Administration. American Society of Hospital Pharmacists Midyear Clin Mtg. Atlanta, GA. Dec 1987.

Carver PL, Nightingale CH, Quintiliani R, Cooper B, Maderazo E. Single and Multiple Dose Pharmacokinetics of Teicoplanin in Healthy Volunteers. 26th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). Abstract #1249. New Orleans, LA. Oct 1986.

Carver PL, Nightingale CH, Quintiliani R. A Sensitive Microbiological Assay for Teicoplanin in Serum and Urine. 26th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). Abstract #1131. New Orleans, LA. Oct 1986.

Carver PL, Nightingale CH, Quintiliani R, Cooper B. Comparative Pharmacokinetics and Pharmacodynamics of Total and Unbound Cefotetan and Cefoxitin in Healthy Volunteers. Amer Soc Clin Pharmac and Therapeut. Washington DC. Mar 1986. Published abstract: Clinical Pharmacology & Therapeutics, 39 (2): 186-186 FEB 1986

Quercia RA, Carver PL, Nightingale CH, Gousse G, Quintiliani R, Klimek J. Use of a Marketing Brochure to Promote Rational, Cost-effective Antibiotic Prophylaxis. American Society of Hospital Pharmacists Midyear Clin Mtg. New Orleans, LA. Dec 1985.

Toscani M, Nightingale CH, Quintiliani R, Carver PL, Drezner AD, Low HBC. Comparative Penetration of Cefazolin and Cefamandole into Sternal Bone and Atrial Appendage in Patients Undergoing Open-Heart Surgery. Amer Coll Clin Pharmacol. Philadelphia, PA. Oct 1985.

INVITED CONTINUING EDUCATION PRESENTATIONS

Carver PL, Chandrasekar PH. Contemporary Strategies for the Treatment of Invasive Fungal Infections in Immunocompromised Patients. A Two-Part Home Study Series for Physicians, Pharmacists, Nurse Practitioners, and Physician Assistants. ASHP Advantage continuing education Webinar and enduring online program, 2019.

Carver PL, Eschenauer GA. Looking Back, Looking Forward: Infectious Diseases. University of Michigan College of Pharmacy Annual Pharmacy Lectures. Ann Arbor, MI. October 2017.

Carver PL. Microbiology panel speaker. 10th International Copper Meeting 2016. September, 2016 in Sorrento, Italy.

Management of Invasive Fungal Infections: Applying Evidence-based Strategies and Individualizing Antifungal Therapy. Presenter and Session Chair. Colorado Society of Health System Pharmacists Annual Meeting. Avon, CO. January, 2015. Tennessee Society of Health System Pharmacists Annual Meeting.

- Nashville, TN. February, 2015. Georgia Society of Health System Pharmacists Annual Meeting. Savannah, GA. March, 2015. Ask the Experts Webinar and online CE activity, August 2015 (1.5 hr)
- Diagnosis and Treatment of Aspergillosis and Therapeutic Drug Monitoring (TDM). In: Management of Invasive Fungal Infections: Applying Evidence-based Strategies and Individualizing Antifungal Therapy. ASHP Clinical Midyear Meeting. Anaheim, CA. December 2014. Presenter and Session Chair.
- AF Prophylaxis Pathways: Patients with Hematologic Malignancies with Prolonged Neutropenia. Lecture and Discussion, University of Nebraska Hospital Pharmacy Faculty and Residents. May 2014.
- Invasive Fungal Infections in the Perioperative Liver Transplant Patient. 24th International Congress of The Transplantation, Berlin, Germany. July 2012.
- Making the Case for Antifungal Stewardship: Issues and Controversies. ASHP Advantage continuing education Webinar and enduring online program, presented March 13, 28, and April 12, 2012.
- Management of Invasive Fungal Infections: A Case Study Approach. Texas A&M University System Health Science Center and the Coastal Bend Health Education Center Annual Gulf Coast Pharmacy Symposium, Corpus Christi, Texas. September 2011. **[Keynote speaker]**
- Perspectives on Antifungal Management. Madison Clinical Conference. Madison WI. March 2011.
- Examining Controversies and Unanswered Questions in the Management of Invasive Fungal Infections. ASHP Webinar. January 2011.
- Examining the Evidence in the Management of Invasive Fungal Infections: Case Study Approach. ASHP Clinical Midyear Meeting. Anaheim, CA. December 2010. [ASHP Advantage Program; presented 3 times].
- CE Case discussion: Candida urinary tract infections, cryptococcosis, and Candida pneumonia. Continuing Education Program for Pharmacists. National Taiwan University Hospital (NTUH) Taipei, Taiwan. November 2010.
- Therapeutic controversy: use of antifungals in the ICU setting. NTUH Dep. of Pharmacy. Taipei, Taiwan. November 2010.
- Summary of research on the Effects of Food and Gastric pH on the Absorption of Drugs in HIV-infected Patients. HIV/AIDS Control and Study Center, Taipei, Taiwan. November 2010.
- Fungal Research: summary of outcomes of *C. glabrata*, PNA FISH, hi dose fluconazole therapy, fungal antibiogram, and management of voriconazole-sirolimus interactions. Infectious Diseases Research Conference, National Taiwan University Hospital (NTUH), Taipei, Taiwan. November 2010.
- Management of Candidemia in the ICU: A Case Study Approach. Far Eastern Memorial Hospital Pharmacy Rounds. Taipei, Taiwan. November 2010.
- Management of Invasive Fungal Infections: in Febrile Neutropenic and Transplant Patients: Past Perspectives and Future Directions. Sun Yat Sen Cancer Center Medical Grand Rounds. Taipei, Taiwan. November 2010.
- Roundtable discussion of antimicrobial stewardship and Infectious Diseases cases with Daryl DePestel, PharmD, ICU and Infectious Diseases pharmacists. Wan-Fang Hospital, Taipei, Taiwan. February 2009.
- Roundtable discussion with Daryl DePestel, PharmD, antimicrobial stewardship program (ASP) coordinators, Associate Dean of National Taiwan University Hospital (NTUH) and physician director of Infectious Diseases), director of Infection Control (ID MD), pharmacy director, pharmacy deputy director, lead pharmacists, clinical ICU and Infectious Diseases pharmacists, IT director.
- Pharmacokinetics and Pharmacodynamics of antifungal agents. Infectious Diseases Conference, National Taiwan University Hospital (NTUH), Taipei, Taiwan. February 2009.
- Case discussion: Persistent *Candida albicans* candidemia. Continuing Education Program for Pharmacists. National Taiwan University Hospital (NTUH) International Convention Center, Taipei, Taiwan. February 2009.
- Case discussion: Polymicrobial post-op wound infection and *Candida albicans* candidemia. Continuing Education Program for Pharmacists. National Taiwan University Hospital (NTUH) International Convention Center, Taipei, Taiwan. February 2009.

Case Discussion: Community-acquired Pneumonia. Continuing Education Program for Pharmacists and Physicians. National Taiwan University Hospital (NTUH) International Convention Center, Taipei, Taiwan, February 2009.

Drug interactions caused by cytochrome P450 and P-glycoprotein: Why are they important ?? Continuing Education Program for Pharmacists and Physicians. National Taiwan University Hospital (NTUH) International Convention Center, Taipei, Taiwan, February 2009.

Treatment of Invasive Candidiasis. Continuing Education Program for Pharmacists and Physicians. NTUH International Convention Center, Taipei, Taiwan, February 2009.

New Agents for the Treatment of Resistant Gram-positive Bacteria. Continuing Education Program for Pharmacists and Physicians. National Taiwan University Hospital (NTUH) International Convention Center, Taipei, Taiwan. February 2009.

Treatment of Candidemia in the ICU: Selection of Antifungal Therapy in An Era of Options. Infectious Diseases Grand Rounds, Wan-Fang Hospital, Taipei, Taiwan. February 2009.

Therapeutic considerations in the treatment of Candidemia. Chicago, Illinois. February 2009.

Candidemia: Selection of Antifungal Therapy in An Era of Options Providence Hospital, Southfield, Michigan. January 2009.

Candida infections-where do we stand? CE presentation to ID physicians and pharmacists. Rosemont, Illinois. August 2008.

Plasma Concentrations of Trace Metal Ions and their Correlation with Infection in Patients Undergoing Long-Term Home Total Parenteral Nutrition (TPN). 4th International Conference on Metals and Genetics (ICMG 2008), Paris, July 2008.

Taking Action with Antifungals: Selection of Antifungal Therapy in An Era of Options. Monroe County Medical Society CE presentation. July 2008.

Beyond the Basics: Exploring Options for the Clinical Management of Invasive Fungal Infections: How Do I Choose the Appropriate Antifungal Therapy? and Point-Counterpoint Discussion: Practical Guidelines for Initiating and Managing Antifungal Therapy. ACCP Annual Meeting, Denver, CO. October 2007. [speaker and moderator]

Clinical Evaluation of Drug Interactions: Translation of Information from the Chemist's Bench to the Patient's Bedside. 13th International Conference on Biological Inorganic Chemistry (ICBIC). July 19, 2007, Vienna Austria.

Selection of Antifungal Therapy in An Era Of Options. Pfizer Regional Representatives Meeting. May 29, 2007, Ypsilanti MI.

Selection of Antifungal Therapy in An Era of Options. 11th Annual Infectious Diseases and Critical Care Symposium, "A New Frontier". January 26, 2007, Dearborn MI.

Clinical Considerations in the Management of Systemic Fungal Infections. ASHP Clinical Midyear Meeting. Anaheim, CA. December 2006. [ASHP Advantage Program; presented 4 times].

Strategies for the Management of Systemic Fungal Infections: An Expert Panel Explores Current Trends and Scientific Evidence. ACCP Annual Meeting, Saint Louis, MO. Oct 2006.

Antifungal Therapy: Selection of Agents in an Era of Choice. Ann Arbor, MI. September, 2006.

Therapeutic Advances in the Clinical Management of Systemic Fungal Infections: Recent Trends and Advances in Antifungal Therapy. ASHP Clinical Midyear Meeting. Las Vegas NV. December 2005. [ASHP Advantage Program; presented 4 times].

Improving Clinical Outcomes in the Management of Systemic Fungal Infections. Houston, TX, Parsippany NJ, Baltimore MD. Oct-Dec, 2005.

Drug Interactions: methods and clinical relevance. University of Grenoble School of Pharmacy, Grenoble, France. [invited research seminar; lectured in French]. November 2005.

Evolving Epidemiology of Fungal Infections with a Special Focus on Candidemia. Meadowbrook Hall, Rochester, MI. October 2005.

Evolving Epidemiology of Fungal Infections with a Special Focus on Candidemia. Beaumont Hospital, October 2005.

Advances in the Management of Systemic Fungal Infections: Applying New Evidence to Improve Patient Outcomes: Advances in Antifungal Therapy: Safety and Efficacy of the Newer Agents. ACCP Annual Meeting. San Francisco, California. Oct 2005.

Evolving Epidemiology of Fungal Infections with a Special Focus on Candidemia. Ann Arbor, MI. August, 2005.

Current Concepts in Treating Today's Community-Acquired Respiratory Tract Infections: Facing resistance: Should we be worried about multidrug resistant *Streptococcus pneumoniae* ? Livingston County Pharmacists Association. June 2005. [CE]

Antimicrobial Therapy in the Acute Care Setting...or... how to think "antibiotics". Michigan Council of Nurse Practitioner 4th Annual Advanced Nursing Practice Conference: The Ever-Changing Tides in Health Care: Plotting the Course of Advanced Practice Nursing. Dearborn MI, March 2005.

Facing resistance: Should we be worried about multidrug resistant *Streptococcus pneumoniae* ? Community pharmacists in Chelsea, Detroit, Bloomfield Hills, Grand Rapids, Troy, Marshall, Novi, Birmingham MI. Feb-June 2005.

Current Concepts in Treating Today's Community-Acquired Respiratory Tract Infections: Facing resistance: Should we be worried about multidrug resistant *Streptococcus pneumoniae* ? Defiance County Medical Association. Defiance, OH. 2005

Translating Drug Interactions with Cytochrome P450: From the Chemist's Bench to the patient. University of Paris, Ecole Polytechnique. Orsay, France. November 2004. [lecture given in French]

Optimizing Outcomes in Community-Acquired Respiratory Tract Infections. Shelby Township, MI November 2004.

Resistance in *Streptococcus pneumoniae*: Novel Therapeutic Options in the Era of Resistance. Pharmacists Society of Wisconsin Annual Meeting, Green Bay, WI. October 2004.

Facing resistance: Should we be worried about multidrug resistant *Streptococcus pneumoniae* ? Ann Arbor, MI. September 2004.

Creating Anti-Fungal Guidelines. University of Illinois - College of Pharmacy Fungal Advisory Board. Chicago, IL. September 2004.

Fungemia caused by *Candida glabrata*: Relationship between Antifungal Susceptibility, Dose, and Outcomes. Paul Ehrlich World Conference on Magic Bullets. Nürnberg, Germany. September, 2004.

Evolution in the Epidemiology and Treatment of Systemic Fungal Infections. Cincinnati, Ohio. May 2004.

Resistance in *Streptococcus pneumoniae*: Novel Therapeutic Options in the Era of Resistance. Toledo, Ohio. May 2004.

Drug Interactions Caused By Cytochrome P450: Why are They Important ?? University of Paris, Ecole Polytechnique. Orsay, France. May 2004. [lecture given in French]

Translating Drug Interactions with Cytochrome P450: From the Chemist's Bench to the Patient. Universiteit Leiden. Leiden, Netherlands. April 2004.

Drug Interactions in the HIV-Infected Patient. Sinai-Grace Hospital, Detroit MI. December 2003.

The Changing Epidemiology of Invasive Fungal Infections ASHP Clinical Midyear Meeting, New Orleans, LA. December 2003.

Synercid®: Risk Factors for Arthralgias & Myalgias. Invited Research Presentation. Synercid® Advisory Board Meeting. Las Vegas, NV. June 2003.

Drug Interactions Caused By Cytochrome P450: Why are They Important ?? University of Paris, Ecole Polytechnique. Orsay, France. May 2003.

Gram Positive Infections: Microbiology, Risk Factors, and Treatment. Michigan and Ohio Pfizer representatives (day long tutorial). April 2003.

Dealing with Microbial Resistance: Resistant Gram Positive Bacteria: Novel Therapeutic Options in the Era of Resistance. Family practice residents. Botsford Hospital, Farmington Hills MI. April 2003.

Issues in Antifungal Therapy: Evolving Epidemiology of Fungal Infections with a Special Focus on Candidemia. University of Michigan Home Med Pharmacists. April 2003.

Resistance in Streptococcus pneumoniae: Novel Therapeutic Options in the Era of Resistance. Faculty and staff Pharmacists at the University of Michigan Health System. April 2003.

Issues in the Treatment of Invasive Fungal Infections. Presented to ID and Oncology Physicians and Nurses. Botsford Hospital, Farmington Hills MI. April 2003.

Current Issues in the Epidemiology and Treatment of Invasive Fungal Infections. Presented to Toledo County Physicians. March 2003

Recent advances in Antifungal Therapy. Presented to Internal Medicine Residents and Attending Physicians Noon Grand Rounds. Genesys Hospital, Flint MI. March 2003.

Issues in the Treatment of Invasive Fungal Infections. Monroe, MI. Presented to Pharmacists and Physicians in Southeastern Michigan. February 2003.

Resistant Bacteria and Fungi: Novel Therapeutic Options in the Era of Resistance. Parkview Memorial Hospital Continuing Education. Fort Wayne, IN. January 2003.

Problem Gram Positive Pathogens: Methicillin-Resistant Staphylococcus aureus. Orlando, FL. January 2003.

Clostridium difficile colitis. EPCP (Emerging Pathogen Clinical Program). Faculty Advisory Board Meeting. New York, NY. December 2002.

Advances in Antifungal Therapy. Ann Arbor, MI, Presented to Pharmacists and Physicians in Southeastern Michigan. December 2002.

Treatment of Multiple Drug Resistant (MDR) Streptococcus pneumoniae. Kent County Pharmacists Association. Grand Rapids, MI. November 2002.

Dealing with Microbial Resistance: Resistant Gram Positive Bacteria: Novel Therapeutic Options in the Era of Resistance. Illinois Council of Hospital Pharmacists. Oakbrook, IL. October 2002.

Pseudomonas and Acinetobacter. EPIC (Emerging Pathogen and Intervention for Clinicians) Clinical Pharmacy Regional Advisory Board. Pinehurst, NC. September 2002.

Fungal Infections in the New Millenium. Presented to Pharmacists and Infectious Diseases physicians at Covenant Cooper Hospital, St. Mary's Hospitals in Saginaw, and Hurley Hospital in Flint, MI. September 2002.

HIV, Mental Illness, Substance Abuse and Hepatitis C: Where are we in 2002?. Drug Interactions in the HIV-Infected Patient: Sorting it all Out. Wayne State University AIDS Education and Training Center Conference. Livonia, MI. September 2002.

Basic Principles of Pharmacokinetics and Pharmacodynamics: taking a Compound from the Benchtop to the Marketplace. University of San Carlos, Department of Chemistry and Chemical Biology, San Carlos, Brazil. July 2002.

Clinical Applications of Cytochrome P450: Making sense of the mechanisms. University of Paris, Ecole Polytechnique. Orsay, France. May 2002.

Caring: The essence of HIV/AIDS Nursing. Drug Interactions in the HIV-Infected Patient: Sorting it all Out. Wayne State University AIDS Education and Training Center Conference. Livonia, MI. March 2002.

Impact of Gram-Positive Resistance on Antibiotic Use. American Pharmaceutical Association (APhA) Annual Meeting. Philadelphia, PA. March 2002.

Drug Interactions in the HIV-Infected Patient: Sorting it all Out. Michigan Pharmacists Association Annual Meeting. Dearborn, MI. February 2002.

From Macrolides to Ketolides: What is Available for the Treatment of Outpatient Respiratory Tract Infections? Nashville, TN. November 2001

Novel Agents for the Treatment of Respiratory Tract Infections: Where Will the Ketolides Fit? Academy of Managed Care Pharmacists. Dallas, TX. October 2001.

Treatment of Community Acquired Pneumonia in the New Millennium. Arkansas Society of Health System Pharmacists. Little Rock, AK. October 2001.

- Computer-assisted Instruction (CAI) to Develop "Clinical Thinking" Skills. Center for Research on Learning and Teaching. University of Michigan Provost's Seminar. Ann Arbor, MI. October 2001.
- Telithromycin: Overview of pharmacology. Presented to ID Physicians and Pharmacists. Aventis Regional Meeting. Chicago, IL. October 2001.
- Drug Interactions in the HIV-infected Patient: Focus on Mechanisms. University of Michigan Infectious Diseases Grand Rounds. September 2001.
- Fungal Infections in the Immunocompromised Patient. Presentation to Michigan area transplant, Infectious diseases, and oncology pharmacists. Ann Arbor and Detroit MI. July 2001.
- Resistant Gram Positive Bacteria: Novel Therapeutic Options in the Era of Resistance. Western Michigan Society of Health System Pharmacists. Grand Rapids, MI. May 2001.
- Pfizer Antifungal Preceptorship. Preceptorship Coordinator, and Speaker. Antifungal Pharmacology. Ann Arbor, MI. April 2001.
- Fungal infections: A Mushrooming Problem. University of Michigan Physician Assistants. Ann Arbor, MI. April 2001.
- From Macrolides to Ketolides: Improving Outcomes in a New Age of Respiratory Pathogens. Presented as an exhibitor classroom at the 2001 American College of Clinical Pharmacy (ACCP) Spring Practice and Research Forum. Salt Lake City, UT. April 2001.
- Innovation in the Management of Resistant Infections. American Pharmaceutical Association (APhA) Annual Meeting. San Francisco, CA. March 2001.
- Telithromycin: Overview of pharmacology. University of Michigan Physician Assistants. Ann Arbor, MI. March 2001. Area Pharmacy Residents. Chicago, IL. March 2001.
- Antimicrobial Resistance - Is the End in Sight ?? Focus on Gram Positive Resistance. Chicago
- Fungal Infections in the Immunocompromised Patient. Presentation to Chicago transplant, oncology pharmacists. Chicago, IL. March 2001.
- Treatment of Staphylococcal Infections in the Era of Resistance. Cleveland Society of Hospital Pharmacists. Cleveland, OH. February 2001.
- Merck Antifungal Preceptorship. Antifungal Pharmacology. Merck representatives, managers, and clinical liaisons. January 2001.
- Treatment of MRSA in Vancomycin Intolerant Patients. Detroit and Ann Arbor area pharmacists. Detroit, MI. January 2001.
- Antibiotic Resistance: Where do Ketolides Fit? American Society of Health-System Pharmacists Midyear Clinical Meeting. Las Vegas, NV. Dec 2000.
- New Insights in Medical Mycology: Focus on Fungal Infections. Identification and Treatment of the At-risk Patient. ACCP Annual Meeting Exhibitors Theater. Los Angeles, CA. Nov 2000.
- Current Challenges in Respiratory Infections. American College of Nurse Practitioners National Clinical Symposium. Salt Lake City, UT. September 2000.
- Overview of Synercid and Linezolid presentations from ICAAC 2000. Presented to Aventis regional representatives and managers. Ypsilanti, MI. October 2000.
- Telithromycin: Microbiology and Pharmacology. Presented to ID Physicians and Pharmacists. Aventis Regional Meeting, San Francisco, CA July 2000, Vail CO August 2000, San Antonio, TX Nov 2000, Boston, MA. December 2000.
- Clinical Applications of Cytochrome P450: Making sense of the mechanisms. University of Grenoble College of Pharmacy and School of Medicine. Grenoble, France. May 2000.
- Clinical Applications of Cytochrome P450: Making sense of the mechanisms. University of Paris, Ecole Polytechnique. Orsay, France. May 2000.
- Research Summary: Drug Absorption and Drug Interactions with Azole Antifungals. ACCP ID PRN meeting, ACCP Spring Forum. Monterey, CA. March 2000.

- Treatment options for Influenza. Michigan Pharmacists Association Annual Meeting. Dearborn, MI. February 2000.
- Azole Absorption: effects of pH, food, and disease state. University of Michigan Clinical Research Center. Lecture to nurses, physicians, and pharmacists affiliated with the GCRC. October 1999.
- Drug Interactions in the HIV-infected Patient. The Pharmacy Society, Basel, Switzerland. June 1999.
- University of Münster. Drug Absorption in the HIV-infected Patient: a multi-faceted problem. Münster, Germany. June 1999.
- Drug Interactions in the HIV-infected Patient: Clinical Applications of Cytochrome P450. University of Paris, Ecole Polytechnique. Orsay, France. May 1999.
- Antifungal Pharmacotherapy for the New Millenium. California Society of Health-System Pharmacists Focus '99. San Diego, CA. March 1999.
- Careers in Pharmacy: The Sky's the Limit. Recruiting Seminar for Potential Students. New College Florida. Sarasota, FL. November 1998.
- Absorption of Azole Antifungal Agents in HIV-infected Patients. Research seminar. Clinical Research Center Physicians, Nurses, and Staff, University of Michigan Medical Center. October 1998.
- Clinical Applications of Cytochrome P450. University of Grenoble College of Pharmacy and School of Medicine. Grenoble, France. May 1998.
- Clinical Applications of Cytochrome P450. University of Paris, Ecole Polytechnique. Orsay, France. April 1998.
- University of Münster. Drug Absorption in the HIV-infected Patient: a multi-faceted problem. Münster, Germany. March 1998.
- Azole Antifungal Agents. American Society of Hospital Pharmacists Midyear Clinical Meeting. Atlanta, GA. December 1997.
- Liposomal Amphotericin B: Therapeutic Use. Ambisome Launch Meeting. Sea Island, GA. October 1997.
- Therapeutic Controversies in the Treatment of Intraabdominal Infections. Merck Pharmacy Clinicians Update. Monterey, CA. September 1997.
- Drug Interactions in the HIV-infected Patient. Minnesota AIDS Practitioners. Minneapolis, MN. August 1997.
- Drug Interactions in the HIV-infected Patient: The Pharmacists Role. University of Minnesota Symposium. Minneapolis, MN. June 1997.
- Drug Interactions in the HIV-infected Patient: The Pharmacists Role. Pharmacy Roundtable Discussion. Chicago, IL. June 1997.
- Absorption Studies in AIDS and Antifungal Pharmacodynamics. Invited Seminar, Merck & Co., Rahway NJ. April 1997.
- Drug Interactions in the HIV-infected Patient: The Pharmacists Role. Michigan Pharmacists Association Annual Meeting. Dearborn, MI. February 1997.
- Cefepime Pharmacology and Pharmacodynamics. Teleconference. Ann Arbor, MI. January 1997.
- Big Gun Antibiotics: What is their Bang? California Society of Health-System Pharmacists Annual Meeting. Anaheim, CA. October 1996.
- The Effect of Food and Gastric pH on the Absorption of Itraconazole in HIV-infected Patients. University of Washington AIDS Clinic. August, 1996.
- Drug Interactions with Cytochromes P450 and Altered Pharmacokinetics in AIDS. Bristol Myers Squibb Regional Meeting. Chicago, IL. July, 1996.
- Formulary Decisions with Extended Spectrum Cephalosporins. Teleconference (25 sites), Ann Arbor, MI. June 1996.
- Resistance to Antifungal Agents. California Society of Health-System Pharmacists Annual Meeting. Palm Springs, CA. October 1995.

Altered Pharmacokinetics and Adverse Drug Reactions in HIV-Infected Patients. University of Michigan College of Pharmacy Annual Pharmacy Lectures. Ann Arbor, MI. October 1995.

The Treatment of Fungal Disease in the Cancer Patient. American College of Clinical Pharmacy Annual Meeting. Washington, DC. Aug 1995.

Drug Interactions and Absorption of Antifungal Agents. Southeastern Michigan Pharmacists Research Spotlight. Dearborn, MI. April 1995

Update on Antifungals. California Society of Hospital Pharmacists Midyear Focus Session. San Francisco, CA, March 1995.

Fungal Infections in the Cancer Patient. Fungal Consensus Conference. Vail, CO. Feb 1995.

The Treatment of Fungal Disease in the Cancer Patient. Michigan Pharmacists Association Interim Meeting. Dearborn, MI. February 1995.

Altered Pharmacokinetics and Adverse Drug Reactions in HIV-infected Patients. American Society of Hospital Pharmacists Midyear Clinical Meeting. Miami, FL. December 1994.

The Treatment of Fungal Disease in the Cancer Patient. American Society of Hospital Pharmacists Midyear Clinical Meeting. Miami, FL. December 1994.

Contemporary use of Antifungal Agents. Southeastern Michigan Society of Hospital Pharmacists. Practice Spotlight Program. Detroit, MI. May 1994.

Treatment of Candida infections in the Immunosuppressed Patient. Boston, MA. April 1994.

Current Issues in the Treatment of Fungal Infections in AIDS. Louisiana Society of Hospital Pharmacists. New Orleans, LA. March 1994.

Current Controversies in Antifungal Therapy. Northeastern Ohio Society of Hospital Pharmacists. Sandusky, OH. February 1994.

Fungal Pulmonary Infections. Florida Society of Hospital Pharmacists Midyear Clinical Meeting. Orlando, FL. February 1994.

Fungal Infections in the Critically Ill Patient. Society of Critical Care Medicine Annual Meeting. Orlando, FL. January 1994.

Absorption of Azole Antifungals. Wayne State College of Pharmacy. Detroit, MI. December 1993.

The Role of Susceptibility Testing and Blood Level Monitoring of Antifungal Agents. American Society of Hospital Pharmacists Midyear Clinical Meeting. Atlanta, GA. December 1993.

Treatment of Fungal Infections. American Society of Hospital Pharmacists Midyear Clinical Meeting. Atlanta, GA. December 1993.

New Perspectives on Managing Candida Infections in the ICU. American Society of Hospital Pharmacists Midyear Clinical Meeting. Atlanta, GA. December 1993.

Prophylaxis and Treatment of Fungal Infections in AIDS. Western Pennsylvania Society of Hospital Pharmacists. Pittsburgh, PA. November 1993.

Advances in Antifungal Pharmacotherapy. Medical University of South Carolina College of Pharmacy. Charleston, SC. September 1993.

New Trends in Antifungal Therapy. St Louis College of Pharmacy Annual Meeting. St. Louis, MO. September 1993.

Treatment and Prophylaxis of Fungal Infections. American College of Clinical Pharmacy Annual Meeting. Reno, NV. Aug 1993.

Pharmacologic Considerations in Selecting Antifungal Therapies. American College of Clinical Pharmacy Annual Meeting (Exhibitor's Theater). Reno, NV. Aug 1993.

Development of Outcome Indicators for the Drug Therapy of Nursing Home Patients with Infectious Diseases. Wayne State College of Pharmacy. June 1993.

Incidence, Etiology, and Risk Factors of Bacterial and Fungal Sepsis. Decision-Making Process in Selecting Prophylaxis and Treatment for Bacterial and Fungal Sepsis. American Association of Critical-Care Nurses 1993 National Meeting. Anaheim, CA. May 1993.

Antibiotics - What's New and What's Not. Ferris State University Spring Seminar. Big Rapids, MI. April 1993.

The Treatment of Human Fungal Disease in the Surgical Patient. Oklahoma Society of Hospital Pharmacists Annual Meeting. Oklahoma City, OK. April 1993.

Update on Penicillins. University of Wisconsin School of Pharmacy. Madison, WI. March 1993.

Update on Antifungal Agents. University of Wisconsin School of Pharmacy. Madison, WI. March 1993.

Prophylaxis and Treatment of Nosocomial Fungal Infections in the High-risk Patient. Michigan Pharmacists Association Interim Meeting. Dearborn, MI. February 1993. New York State Council of Hospital Pharmacists Midyear Clinical Meeting. La Guardia, NY. March 1993. California Society of Hospital Pharmacists Annual Meeting. San Diego, CA. March 1993. Texas Society of Hospital Pharmacists Annual Meeting. Houston, TX. April 1993.

New Directions in Antifungal Therapy. Northeastern New York Society of Hospital Pharmacists. Albany, NY. February 1993.

Prophylaxis and Treatment of Nosocomial Fungal Infections in the High-risk Patient. American Society of Hospital Pharmacists Midyear Clinical Meeting. Orlando, FL. December 1992.

Opportunistic Fungal Infections in Patients with AIDS. St. John's University, Garden City, New York. November 1992.

The Treatment of Human Fungal Disease in the Surgical Patient. California Society of Hospital Pharmacists Annual Meeting. Anaheim, CA. October 1992.

Pharmacology of Antifungal Agents. Sparrow Hospital, Lansing MI, August, 1992.

Early Diagnosis of Human Fungal Disease in the Hospital Environment: Controlling a Virulent Pathogen. American Society of Hospital Pharmacists Annual Meeting. Washington, DC. June 1992.

Macrolides and Fluoroquinolones: Applications and Indications. Southeast Ohio Pharmacists Association. May 1992.

In Vitro and In Vivo Interactions between Ketoconazole and Sucralfate. Research Seminar. University of Michigan College of Pharmacy. April 1992.

Current Approaches to the Management of Systemic Fungal Infections. California Society of Hospital Pharmacists Midyear Focus Session. Monterey CA, April 1992.

Antifungal Therapy in the 1990's. New York State Council of Hospital Pharmacists Midyear Clinical Meeting. Buffalo and La Guardia, New York, March 1992.

Fungal Infections in the Immunocompromised Host. University of Rhode Island School of Pharmacy. Marco Island, FL, February 1992.

Update on New Antibiotics: Focus on Quinolones, Macrolides, and Cephalosporins. Hurley Hospital Infectious Diseases Practitioners. Flint, MI, February 1992.

Basic Principles of Infectious Diseases in Clinical Practice. Blodgett Hospital Pharmacists, Blodgett Hospital Grand Rapids, MI, January 1992.

Research Seminar. Presented to Infectious Diseases SPG Group. American Society of Hospital Pharmacists Midyear Clinical Meeting. New Orleans, LA. December 1991.

Clinical Interpretation of Laboratory Tests in Infectious Diseases. American Society of Hospital Pharmacists Midyear Clinical Meeting. New Orleans, LA. December 1991.

Update on Antifungal Pharmacotherapy. The Panhandle Society of Hospital Pharmacists Annual Clinical Seminar. Amarillo, TX, October 1991.

Controversies in Antimicrobial Therapy: The Role of the Fluoroquinolones. Advances in Managing Secondary Infections in Immunocompromised Patients. University of Kentucky Continuing Pharmacy Education. Oak Brook IL, Cincinnati OH, Atlanta GA, Houston TX, Saddlebrook NJ, Miami FL, Los Angeles CA, and New Orleans LA. June through December 1991.

Management of Opportunistic Fungal Infections: Strategies for the 1990's: Mucocutaneous Candidiasis. Charleston, West Virginia, June 1991.

Controversies in the Treatment of Fungal Infections: A Critical Review of the Azole Antifungal Agents. American Society of Hospital Pharmacists Annual Meeting. San Diego, CA, June 1991.

Antimicrobial Agents and Infectious Diseases: Clinical Interpretation of Laboratory Data. Kansas Society of Hospital Pharmacists Spring Seminar. Hutchinson, KS, May 1991.

American College of Clinical Pharmacy Series: The Contemporary Management of Systemic Fungal Infections: Mucocutaneous Candidiasis. New Orleans LA, Orlando FL, New York NY, Alexandria VA, Cincinnati OH, Chicago IL, and Los Angeles CA, March through June 1991.

Laboratory Test Monitoring in Infectious Diseases. American Society of Hospital Pharmacists Midyear Clinical Meeting. Las Vegas, NV, December 1990.

Fungal Infections in the Immunocompromised Host. Lifetime Cable Television "Pharmacy Rounds", December 1990.

Laboratory Test Monitoring in Infectious Diseases. Michigan Society of Hospital Pharmacists Annual Meeting. Dearborn, MI, October 1990.

Issues in Infectious Diseases: Gastrointestinal Infections in AIDS Patients. Pfizer/Roerig and the University of Michigan College of Pharmacy Teleconference. Ann Arbor, MI, August 1990.

Session Moderator. Authoring Systems for Computer-assisted Instruction. IBM Academic Computing Conference. Miami, FL, June 1990.

Use of Computer Assisted Instruction to Review Microbiology and Antimicrobial Agents. IBM Academic Computing Conference. Miami, FL, June 1990.

Clinical Interpretation of Laboratory Tests in Infectious Diseases. American Society of Hospital Pharmacists Midyear Clinical Meeting. Atlanta, GA. December 1989.

Computer-assisted Instruction in Pharmacy and Medicine. EDUCOM Annual Conference, Ann Arbor, MI, October 1989.

Gastrointestinal Infections in AIDS Patients. University of Michigan College of Pharmacy Continuing Education. Farmington Hills, MI, May 1989.

Selection of Antibiotics: Focus on Cephalosporins. St. Joseph's Osteopathic Hospital Medical Staff Conference. Pontiac, MI, December 1988.

Advances in Pharmacologic Therapy: Monobactams and Quinolones. Southeastern Michigan Society of Hospital Pharmacists Spring Seminar. Farmington, MI, April 1988.

Infectious Disease Update: Focus on Monobactams and Quinolones. Current Topics in Pharmacotherapy. Nebraska Society of Hospital Pharmacists. Omaha, NE, October 1987.

Efficacy and Problems With Antibiotics. Antibiotic Cost Containment. University of Michigan College of Pharmacy Continuing Education. Ann Arbor, MI, October 1987.

Monobactam Antibiotics: When and Where They Should Be Used. Advances in Drug Therapy. University of Michigan College of Pharmacy Continuing Education. Ann Arbor, MI, September 1987.

Pharmacokinetics for the Physician. Medical Noon Conference. Hartford Hospital, Hartford, CT, May and October 1985.

Antibiotics and Infectious Diseases. Nursing Pharmacology Students. San Francisco State University, May 1984.

Lithium Nephrotoxicity. Inpatient Psychiatric Grand Rounds. Langley Porter Institute, San Francisco, CA, Apr 1984.

Antibiotics in Dental Practice. Dental /Periodontal Graduate Students. University of California School of Dentistry. San Francisco, CA, Apr 1984.

Infections in the Immunocompromised Host. University of California School of Pharmacy, San Francisco. San Francisco, CA, Apr 1984.

Inflammatory Bowel Disease. University of California School of Pharmacy, San Francisco. San Francisco, CA, Feb 1984.

Drug/nutrient Interactions. University of California at Berkeley Clinical Nutrition Students. Berkeley, CA, Sept 1983.

Hypertension and the Dental Patient. Dental Student Seminar. UCSF Dental Clinic, San Francisco, CA, Aug 1983.

Dosing and Toxicity of Sulfonamides in Renal Dysfunction. Infectious Disease Grand Rounds. San Francisco General Hospital, San Francisco, CA, Jul 1982.

GRANTS (funded)

Internal / Intramural

Rackham Faculty Grant. An in-vitro Model to Assess the Effect of Alterations in pH, Volume, and Media On Bacterial Growth in Gastric Fluid. Principal Investigator 5/89-9/90, \$9,896.

University of Michigan College of Pharmacy Clinical Research Resources Committee, Kraft MD, DePestel DD, Wilensky J, Kauffman CA, and Carver PL. The effect of continuous enteral nutrition on the oral bioavailability of itraconazole oral solution. \$21,298, December 2001.

Rackham Faculty Grant. "An In-Vitro Evaluation of Bacterial Adherence and Migration on the Surface of Nasogastric Tubes." Principal Investigator, 5/89 - 6/91; \$9,130.00.

NIH General Research Support, Clinical Research Center, The University of Michigan. "The Effect of Cirrhosis On The Pharmacokinetics of Ketoconazole", Principal Investigator, Peggy L. Carver, \$18,438.

NIH General Research Support, Clinical Research Center, The University of Michigan. "Evaluation of A Potential Interaction Between Ketoconazole and Sucralfate in Healthy Volunteers", Principal Investigator, Peggy L. Carver, \$877.50.

NIH General Research Support, Clinical Research Center, The University of Michigan. "Use of Mucosal Cell Carriers/enzymes in Oral Drug Absorption: B-lactam Antibiotic Absorption", Principal Investigator, Gordon L. Amidon, Peggy L. Carver, Co-investigator \$854.00.

NIH General Research Support, Clinical Research Center, The University of Michigan. Use of Mucosal Cell Carriers/enzymes in Oral Drug Absorption: Captopril, Co-investigator.

NIH General Research Support, Clinical Research Center, The University of Michigan. Use of Mucosal Cell Carriers/enzymes in Oral Drug Absorption: Enalapril. Co-investigator.

NIH General Research Support, Clinical Research Center, The University of Michigan. Evaluation of The Pharmacokinetic and Pharmacodynamic Interaction Between Quinidine and Ciprofloxacin in Healthy Subjects, Co-investigator.

NIH General Research Support, Clinical Research Center, The University of Michigan. "Absorption of Azole Agents in HIV-Infected Patients with Altered Gastric pH." Principal Investigator: Peggy Carver, Pharm.D., Co-investigators: Lynda Welage, Pharm.D., Carol Kauffman, M.D., 5/93-6/93.

NIH General Research Support, Clinical Research Center. "The Effect of Food and Gastric pH on the Oral Bioavailability of Itraconazole." Coinvestigator, 10/94-11/95.

NIH General Research Support, Clinical Research Center. "Alterations in Gastric Acidity and Gastric Microbial Colonization in Patients with Acquired Immunodeficiency Syndrome." Co-Principal Investigator, 2/91 - 10/93.

NIH General Research Support, Clinical Research Center. "Absorption of Azole Agents in HIV-Infected Patients with Altered Gastric pH." Coinvestigator, 5/93-6/93.

NIH General Research Support, Clinical Research Resources Committee. "Alterations in Ofloxacin Absorption in the Critically Ill." Co-investigator, 12/96-11/97, \$17,166.00.

University of Michigan Center for Research On Learning and Teaching. "Computer Simulations in Infectious Diseases." Principal Investigator: Peggy Carver, \$4000, 5/1/88-6/30/89.

University of Michigan College of Pharmacy Valteich Award. Effect of meal components on Protease Inhibitor Absorption in AIDS. Co-Investigator \$25,000.

Investigator initiated, Industry sponsored

Merck. Research in antifungal molecular biology. Unrestricted gift, for sabbatical research support Principal Investigator: Carver PL. \$70,000.

Glaxo Pharmaceuticals- investigator initiated. "Penetration of Cefuroxime Into CSF, Bone and Brain Tissue." Principal Investigator: J. McGillicuddy MD., Peggy L. Carver, Co-investigator, 1/87-6/89, \$9250 of \$25,027.91.

Janssen Pharmaceutica Research Foundation- investigator initiated. The Effect of Food and Gastric pH on the Oral Bioavailability of Itraconazole in HIV-infected Patients. Principal Investigator \$60,640.

Merck Institute for Therapeutic Research- investigator initiated. "The Effect of Noroxin[®] On Urine Glucose Tests." Principal Investigator: Peggy Carver, (3%) \$4650, 3/1/88-5/30/89.

Merck Sharp & Dohme- investigator initiated. "An in vitro evaluation of bacterial adherence and migration on the surface of nasogastric tubes." Co-principal investigators: Lynda S. Welage, Peggy L. Carver, \$2,000.

Merck Sharp & Dohme- investigator initiated. General Clinical Research Support \$2,000, August, 1990.

Abbott Laboratories- investigator initiated. "In Vivo Interaction of Temafloxacin and Sucralfate". Principal Investigator \$56,000

Pfizer/Roerig- investigator initiated. Alterations in Gastric Acidity and The Influence of Glutamic Acid on Gastric Acidity and Gastric Microbial Colonization in Patients With Acquired Immunodeficiency Syndrome. Co-principal Investigator \$12,500.

Pfizer/Roerig- investigator initiated. Azole absorption in HIV-infected subjects. Co-Principal Investigator, \$19,900.

Pfizer/Roerig Pharmaceuticals. Evaluation of the in-vitro and in-vivo Interaction Between Fluconazole and Sucralfate. Principal Investigator \$31,954.

Roche Hospital Pharmacy Research Grants. In Vitro/In Vivo Interaction of Ketoconazole and Sucralfate. Principal Investigator: Peggy L. Carver, \$3,500.

Roerig-Pfizer Pharmaceuticals- investigator initiated. "Evaluation of a Potential Interaction between Fluconazole and Sucralfate in Healthy Volunteers." \$20,097

Abbott Laboratories. "Evaluation of a potential interaction between temafloxacin and sucralfate in healthy volunteers." Principal Investigator: Peggy L. Carver, \$36,500.

Squibb Pharmaceuticals- investigator initiated. "Post-antibiotic effect of antifungals." Principal Investigator: Peggy L. Carver, 12/91-12/92, \$12,000.

Upjohn Company. The Steady-state Pharmacokinetics of Delavirdine Mesylate in HIV-infected Patients. Principal Investigator: David E. Smith. Co-Investigator: Peggy Carver. \$280,000.

Pfizer/Roerig - investigator initiated. "Unrestricted support to study the oral bioavailability of Azole drugs in HIV patients." Coinvestigator, 5/93 - indefinite; \$19,900.00.

Janssen Pharmaceutica Research Foundation. "The Effect of Food and Gastric pH on the Pharmacokinetics of Itraconazole". Coinvestigator, 5/94 - indefinite; 60,640.00.

Carver PL. Merck. Investigator initiated. Caspofungin for the Treatment Candida glabrata Blood Stream Infections (BSIs). \$29,750. March 2007-December 2009 (with no cost extension to 2/10).

Enzon Pharmaceuticals. CLEAR II: Collaborative Exchange of Antifungal Research. Co-investigator.

Merck. Unrestricted educational grant. \$500. 1997

Aventis Pharmaceuticals. Unrestricted research support. \$3,000. September 2003.

Aventis Pharmaceuticals. Unrestricted research support. \$12,500.

Enzon Pharmaceuticals. CLEAR II: Collaborative Exchange of Antifungal Research. pending

Merck Sharp & Dohme. General research support; 2,000.00.

Pfizer/Roerig - investigator initiated: "Unrestricted support in the area of Gastric Acidity and AIDS." Co-Principal Investigator, 1/92 - indefinite; 12,000.

Pfizer/Roerig - investigator initiated. "Unrestricted Support to Study The Oral Bioavailability Of Azole Drugs in HIV Patients." Principal Investigator: Peggy Carver, Pharm.D., Co-investigators: Lynda Welage, Pharm.D., Carol Kauffman, M.D., 5/93 – 4/95, \$19,900.

DRDA Number: 09-1501 Project Title: Risk factors and Treatment Outcomes for Fluconazole-Resistant Candida glabrata Blood Stream Infections Project dates: 1/1/2009 to 12/31/2010 Amount \$49,440

DRDA Number: N013847; Project Title: Development of a Fungal Antibiogram for the University of Michigan Hospitals. N010778 Project dates: 8/2/2011 to 8/1/2012 Amount \$84,956

Kraft MD, DePestel DD, and Carver PL. Oral bioavailability of voriconazole tablets after multiple doses administered as whole tablets compared to crushed tablets. Pfizer, Inc., \$272,298 (funded, but funding declined), May 2003.

Development of a Fungal Antibiogram for the University of Michigan Hospitals. \$84,956.00. Principal Investigator: Peggy Carver, Astellas.

Astellas/WHISCON. IV safety of parenteral antifungals. \$356,989.00. Multi-site study; Co-Principal Investigator for University of Michigan). 2013-2019; 15% salary support.

Foundations

American Association of Colleges of Pharmacy. GAPS Award. "Computer-assisted instruction in a Therapeutics Course: Developing the skills of clinical thinking". Co-Principal Investigator: Peggy L. Carver, 6/89-8/92, 3% salary support, \$21,823. DRDA #89-1482.

Society of Infectious Diseases Pharmacists. Multi-center evaluation of standardized methods for conducting antifungal time-kill studies. Principal Investigator: Michael Klepser, Co-investigators: Peggy L. Carver, Erika Ernst, Russell Lewis, Elaine Bailey, David Burgess, Melinda Lacy, Renee Mercier, David Nicolau, George Zhanel. 8/98-8/99. \$19,650.

Society of Infectious Diseases Pharmacists. Carver PL, Rodriguez N, Fleisher D. Absorption of Indinavir and Ritonavir in HIV-infected patients. \$22,500.00. 1997.

Travel Grant Fellowship for Mike Nailor 2004. \$700 from IDSA.

Travel Grant, ASM ICAAC McCracken Infectious Disease Fellowship for Wendy to present mecA poster at ICAAC. McCracken Infectious Disease Fellow \$1,000

Travel Grant, ASM ICAAC McCracken Infectious Disease Fellowship for Dorothy Surowiec to present voriconazole-sirolimus poster at ICAAC. \$1,000

Federally funded

U.S. HHS PHS National Institutes of Health. "Use of mucosal cell carriers/enzymes in oral drug absorption." Principal Investigator: Gordon L. Amidon; Henry I. Mosberg, Gordon M. Crippen, Co-Investigators, Peggy L. Carver, Investigator, 9/1/89-8/31/94, \$654,000, 1% salary support.

NIH/NIGMS. "Mucosal Cell Transporters and Enzymes in Drug Delivery." Co-investigator, 4/1/99-3/31/2004, \$1,522,014 (direct).

International funding

'Lanthanide-Based Agents For Sensitive And Selective Near-Infrared Imaging Of Living Biologicals Systems.' Le Studium Consortium, Orleans, France. 2017-2019. PI=Svetlana Eliseeva. Co-Investigators = Petoud S, Needham D, Pecoraro V, Carver, P, Carlos L. €36,000. (No salary support but pays for my travel to 4 consortium research sessions with other investigators, over a 2 year period).

Maestro Project funded by National Science Centre (Poland) 'Metallophores-understanding (and lighting up) metal transport in pathogens to help the host trick the invaders.' PI=Henryk Kozłowski. Co-Investigators = Gumienna-Kontecka E, Rowińska-Żyrek M. (No salary support but pays for a Polish chemistry post-doc to come to my lab for 6 months or more). €846,000.