



CURRICULUM VITAE

George Phillip “Phil” Ayers, BS, Pharm.D., BCNSP, FMSHP, FASHP

Chief, Clinical Pharmacy Services, Baptist Health Systems
Clinical Specialist-Nutrition Support, Baptist Health Systems
Clinical Associate Professor, University of Mississippi, School of Pharmacy
Pharmacy Consultant, VitalCare, Inc.

CONTACT INFORMATION: 406 Summerville Drive
Madison, MS 39110
(601) 856-4874 (home)
(601) 720-4874 (mobile)
parph@aol.com

WORK INFORMATION: Mississippi Baptist Health Systems
Department of Pharmacy
1225 North State Street
Jackson, Mississippi 39202-2002
(601) 720-4874
parph@aol.com

EDUCATION: Doctor of Pharmacy,
University of Mississippi Medical Center
Jackson, Mississippi

B.S. Pharmacy,
University of Mississippi
University, Mississippi

LICENSURE: Mississippi
Tennessee

EMPLOYMENT HISTORY:

1987-Present Mississippi Baptist Health Systems
Jackson, Mississippi
Nutrition Support Service (1993-Present)
Chief, Clinical Pharmacy Services (1998-Present)
Mississippi Hospital for Restorative Care (1993-2016)
Staff Pharmacist (1987-1993)

1997-Present University of Mississippi, School of Pharmacy
Jackson, Mississippi
Clinical Associate Professor
Nutrition Support Rotation Preceptor
Critical Care Rotation Preceptor
Institutional Rotation Preceptor



Doctor of Pharmacy Preceptor-University of Mississippi
Doctor of Pharmacy Preceptor-Samford University
Doctor of Pharmacy Preceptor-South College
Doctor of Pharmacy Preceptor-University of Florida
Doctor of Pharmacy Preceptor-Ohio Northern University
Doctor of Pharmacy Preceptor-University of Arkansas
Doctor of Pharmacy Preceptor-University of Kansas
Doctor of Pharmacy Preceptor-Chicago State University

1985-1987

Pharmacy Manager
Medi-Save Pharmacy
Jackson, Mississippi

1984-1985

Pharmacy Manager
Rite-Aid Pharmacy
Talbot, Tennessee

ORGANIZATIONS:

Mississippi Society of Health-System Pharmacists (MSHP)

Education Committee, 2014-2022
Legislative Committee Chair, 2008-2022
ASHP Senior Delegate, 2002-2007
President, 2000
President-Elect, 1999
Strategic Planning Committee, Chair, 2001
Nominating Committee, Chair, 2000
Awards Committee, Chair, 2000
Finance Committee, 2000, 2001
Legislative Committee, Chair, 1999
Public Relations Committee, 1992, 1993, 2003, 2004

American Society of Health-System Pharmacists (ASHP)

Section of Clinical Specialists and Scientists Committee on Nominations (2018-2022)
Network Facilitator-Nutrition Support, 2013-2017
Clinical Specialists and Scientists Advisory-Preceptor Development, Chair, 2013
Clinical Specialists and Scientists Advisory-Preceptor Development, Vice-Chair, 2012
Clinical Specialists and Scientists Advisory-Preceptor Development, 2009-2011
Mississippi Senior Delegate, 2002-2007
Council on Legal and Public Affairs, 2001
House of Delegates, 2000, 2021
Public Relations Advisory Network, 2000

Mississippi Society for Parenteral and Enteral Nutrition (MSPEN)

President, 1998, 2009
President-Elect, 1997, 2008
Pharmacist- at- Large, 1996
Program Committee, 1994-2001, 2003-2005
Membership Committee, 1994-1998



American Society for Parenteral and Enteral Nutrition (ASPEN)

President-Elect 2022-2023
Vice-President, 2021-2022
Secretary-Treasurer, 2015-2021
Secretary-Treasurer Elect, 2014
Board of Directors, 2011-Present
Parenteral Nutrition Safety Committee, Chair, 2014-2018
Parenteral Nutrition Safety Task Force, Chair, 2012-2014
Informatics Committee, 2014-Present
Self-Assessment Committee, Chair, 2009
Self-Assessment Committee, Vice-Chair, 2008
Self-Assessment Committee, 2007
Clinical Nutrition Week 2009 Program Committee
Clinical Nutrition Week 2008 Program Committee
Clinical Nutrition Week 2007 Program Committee
Interdisciplinary Core Curriculum Reviewer, 1999
Interdisciplinary Review Task Force, Chair, 2003
Interdisciplinary Review Course Task Force, 2000-2001
Interdisciplinary Review Course Moderator, 2002
Interdisciplinary Review Course Moderator, 2003

Board of Pharmacy Specialties (BPS)

Nutrition Support Specialty Council, Chair, 2015
Nutrition Support Specialty Council, Vice-Chair, 2014
Nutrition Support Specialty Council, 2010-2013
Nutrition Support Role Delineation Committee, 2005
Nutrition Support Exam Study Committee, 2007

United States Pharmacopeia (USP)

Compounding Expert Committee, 2020-2025
Chair, PN Safety Expert Panel, 2020-2025
COVID-19 Vaccine Handling Expert Panel, 2021
Drug Supply Chain Resiliency Model Expert Panel, 2021
Healthcare Quality and Safety Expert Committee, 2015-2020 Chair,
PN Safety Expert Panel, 2015-2020

Mississippi College of Clinical Pharmacy (MCCP)

President, 2003, 2011
President-Elect, 2002, 2010

American College of Clinical Pharmacy (ACCP)

Membership Committee, 1998-1999

Mississippi Pharmacists Association (MPhA)

Interim Executive Director July-November 2018
Foundation President 2016
President 2015
President-Elect, 2014
Vice-President, 2013
Director-at-Large, Executive Committee, 2012



Government Affairs, Chair, 2013
Government Affairs, Chair, 2012
Government Affairs, Chair, 2011
Government Affairs, 2009, 2010, 2014-present
Education Committee, 2015-2021
Executive Committee, 1993
Second Vice-President, 1993
Membership Committee, Chair, 1993-1998, 2015-present
Young Pharmacists Committee, Chair, 1990
Career Day Director, 1990-1994
Professional Affairs Committee, 1989

Baptist Health Systems

Baptist Cares Leadership Certification Program
Lean Certificate/Healthcare, Mississippi State University
Accreditation Compliance Team
Medication Management Team-Joint Commission Accreditation
Clinical Improvement Committee
Baptist Leadership Institute (BLI)
BLI Curriculum Committee, Sub-team Co-Chair
Pharmacy-Nursing Committee, Co-Chair
Professional Advisory Group-Clinical Pastoral Education (CPE), Chair
CPE Curriculum, Chair
Accreditation Compliance Team
H-Works Advisory Panel
Institutional Review Board
Pharmacy and Therapeutics Committee, Co-Chair
Intensive Care Committee
Patient Care Committee
Policy and Procedure Committee
Nutrition Care Committee
Pain Management Committee
Discharge Planning Committee
Quality Care Committee
Clinical Pathway Development
Sentinel Event Committee

ACHIEVEMENTS:

Honorary Member-Academy of Nutrition and Dietetics 2022
President-Elect ASPEN 2022-2023
Advanced Pharmacy Practice Preceptor of the Year, University of Mississippi, 2020
BCNSP Advisory Board-Purdue University 2018-2020
National Association of Board of Pharmacy-Mississippi Delegate 2018
MSHP Innovative Pharmacy Practice Award, 2017
Healthcare Hero-Mississippi Business Journal, 2016
A.S.P.E.N. Stanley Serlick Award, 2016
United States Pharmacopeia (USP) Healthcare Quality Committee, 2015-2020
United States Pharmacopeia (USP) Chair, PN Safety Task Force, 2015-2020
Mississippi Board of Pharmacy, 2015-2018
President MPhA, 2015-2016



Pharmacy Health Information Technology Collaborative, Chair, 2015-2016
Secretary-Treasurer, A.S.P.E.N., 2015-2021
Secretary-Treasurer Elect, A.S.P.E.N., 2014
BPS Nutrition Support Council, Chair, 2015
President-Elect MPhA, 2014
Vice-President MPhA, 2013
ASHP Best Practice Award, Diabetes Management Team, 2012
MPhA Executive Committee, Director at Large, 2012, 2013
American Society of Health-System Pharmacists Fellow, 2012
Advanced Pharmacy Practice Preceptor of the Year, University of Mississippi, 2012
A.S.P.E.N. Board of Directors, 2011-2013
Mississippi Society of Health-System Pharmacists Service Award, 2011
Distinguished Alumnus Award, School of Pharmacy, University of MS, 2011
A.S.P.E.N. Excellence in Nutrition Support Education Award, 2011
Drug Topics Advisory Board, 2009
Mississippi Health-System Pharmacist of the Year, 2009
Who's Who in Pharmacy Education, 2008
Clinical Science Teaching Award, University of Mississippi, 2008
Clinical Science Teaching Award, University of Mississippi, 2007
Board Certified Nutrition Support Pharmacist 1996, Recertified 2004, 2017
Central District Dietetic Association Magnolia Award, 2004
Mississippi Health-System Pharmacist of the Year, 2002
President MCCP 2003, 2011
President-Elect MCCP 2002, 2010
President MSHP, 2000
President-Elect MSHP, 1999
President-Elect MSPEN, 1997, 2008
President MSPEN, 1998, 2009
MSHP Service Award, 2001
Bristol Myers Squibb Service Award, 2001
Second Vice-President MPhA, 1993
Marion-Merrell Dow Outstanding Young Pharmacist, 1992

PRESENTATIONS:

“Barriers to Implementing Pharmaceutical Care in Mississippi,” St. Dominic Hospital, Jackson, MS, April 21, 1995.

“Drug-Nutrient Interactions: A Multidisciplinary Approach,” University Medical Center, Jackson, MS, December 7, 1995.

“Intravenous Devices,” Seminar for Pharm.D. Students, Department of Family Medicine, Jackson, MS, June 10, 1996.

“Wegener’s Granulomatosis: An Overview,” University Medical Center, Jackson, MS, June 20, 1996.

“Treatment of Pulmonary Embolism in Pregnancy,” University Medical Center, Jackson, MS, October 8, 1996.

“Management of the Patient Receiving TPN,” Greater Jackson Area Critical Care Consortium, Jackson, MS, March 6, 1997.



“Diabetes, Medications and Defenses,” Diabetes Support Group, Jackson, MS, April 7, 1998.

“Drug Nutrient Interactions-An Overview,” Mississippi Society for Parenteral and Enteral Nutrition Fifth Annual Update, Jackson, MS, April 24, 1998.

“Overview of Respiratory Drugs,” University of Mississippi School of Nursing, Jackson, MS, October 19, 1998.

“Acid-Base Disorders: An Overview,” ASPEN Clinical Congress, Nashville, TN, January 25, 2000.

“Trace Elements,” ASPEN Clinical Congress, Nashville, TN, January 26, 2000.

“Nutrition Support, Case Study Style,” MSHP Annual Meeting, Jackson, MS, February 4, 2000.

“Nutrition Support in the Critical Care Patient,” Baptist Health Systems, Jackson, MS, January 23, 2001.

“Nutrition Support Primer,” Department of Family Medicine, Jackson, MS, March 23, 2001.

“Anemia Management in the Critically Ill Patient,” St. Vincent’s Infirmary Medical Center, Little Rock, AR, October 2, 2001.

“Anemia Management in the Critically Ill Patient,” MSHP Central Region Seminar, Ridgeland, MS, October 11, 2001.

“Anemia Management in the Critically Ill Patient,” MSHP Northern Region Seminar, Tupelo, MS, October 18, 2001.

“Short Bowel Syndrome-Case Study,” Mississippi Society for Parenteral and Enteral Nutrition Eighth Annual Update, Jackson, MS, November 9, 2001.

“Sedation in the ICU,” Jackson Area Pulmonary Groups, Jackson, MS, November 29, 2001.

“Anemia Management in Kidney Disease,” Richmond Area HCA Pharmacists, Richmond, VA, January 8, 2002.

“Anemia Management in the Critically Ill Patient,” Baptist Health Systems Pharmacists, Ridgeland, MS, January 15, 2002.

“Anemia Management in Oncology and Kidney Disease,” Saint Francis Hospital, Memphis, TN, January 17, 2002.

“Parenteral Nutrition,” American Society for Parenteral and Enteral Nutrition Interdisciplinary Review Course, San Diego, CA, February 23, 2002.



“Anemia Management in Oncology and Surgery/Critical Care,” Missouri Baptist Medical Center, St. Louis, MO, March 25, 2002.

“Parenteral Nutrition,” Baptist Health Systems Department of Food and Nutrition Services, Jackson, MS, April 3, 2002.

“Anemia Management in Oncology, Chronic Kidney Disease and Surgery/Critical Care,” Channel Inn Hotel (Washington Area Pharmacy Association), Washington, DC, April 17, 2002.

“Overview of Anemia Management,” Southeast Chapter of Louisiana State Health-System Pharmacists, New Orleans, LA, April 25, 2002.

“Drug-Nutrient Interactions,” Baptist Health Systems Department of Food and Nutrition Services, Jackson, MS, May 22, 2002.

“Overview of Anemia Management and Anemia Management of the Cancer/Chemotherapy and Critical Care Patient,” Maryland Area Pharmacists, Bethesda, MD, July 10, 2002.

“Anemia Management in Cancer/Chemotherapy and Chronic Kidney Disease,” Sinai Hospital, Baltimore, MD, September 26, 2002.

“Proton Pump Inhibitor Review,” Jackson Medical Associates, Jackson, MS, October 7, 2002.

“Acid-Base Workshop,” Baptist Medical Center Critical Care Nurses, Jackson, MS, November 14, 2002.

“Proton Pump Inhibitors,” 5th District Louisiana Pharmacists Association, Monroe, LA, November 21, 2002.

“Proton Pump Inhibitors Roundtable,” Gastrointestinal Associates, Jackson, MS, December 16, 2002.

“Renal Physiology of Acid-Base Disorders,” Clinical Management of Acid-Base Workshop, Nutrition Week, San Antonio, TX, January 20, 2003.

“Therapeutic Options and Pharmacoeconomic Principles in Anemia Management,” SE Louisiana Society of Health-System Pharmacists, New Orleans, LA, February 20, 2003.

“Anemia in Surgery and Critical Care,” Mississippi Society of Health-System Pharmacists, Jackson, MS, May 22, 2003.

“Enteral Nutrition Update,” Southeast Regional Medical Center Grand Rounds, Laurel, MS, July 31, 2003.

“Sepsis-Case Study,” Case Management Conference, University of Mississippi School of Pharmacy, Jackson, MS, September 15, 2003.

“Management of Sepsis: The Role of the Pharmacist,” Mississippi Society of Health- System Pharmacists, Jackson, MS, November 18, 2003.



“Evolution of a Nutrition Support Service,” Mississippi Society for Parenteral and Enteral Nutrition Annual Meeting, Jackson, MS, January 30, 2004.

“AWS and Pancreatitis,” Case Management Conference, University of Mississippi School of Pharmacy, Jackson, MS, February 27, 2004.

“Treatment of Anorexia: Is There Any Science?” Central District Dietetic Association Spring Meeting, Jackson, MS, March 30, 2004.

“Anemia in the Elderly,” West Tennessee Pharmacists Association, Jackson, TN, October 19, 2004.

“Pancreatitis and Parenteral Nutrition,” University of Mississippi School of Pharmacy, Jackson, MS, October 25, 2004.

“Grand Rounds with a Nutrition Support Service,” Central District Dietetic Association Fall Meeting, Jackson, MS, December 2, 2004.

“Acid-Base Principles,” Nutrition Week 2005 Fluid and Electrolyte Workshop, Orlando, FL, January 29, 2005.

“Nutrition Support in a ARF Patient,” Nutrition Week 2005 Fluid and Electrolyte Workshop, Orlando, FL, January 29, 2005.

“Nutritional Support and Pharmacological Management of Chronic Renal Patients,” Nutrition Week 2005, Orlando, FL, January 31, 2005.

“Ground Rounds with a Nutrition Support Service: An Interactive Session,” Nutrition Week 2005, Orlando, FL, February 1, 2005.

“Treatment of Sepsis and Critical Care Therapeutics,” Case Management Conference, University of Mississippi School of Pharmacy, Jackson, MS, April 18, 2005.

“Parenteral Nutrition Overview,” University of Mississippi School of Pharmacy Jackson, MS, October 21, 2005.

“Ethics and Nutrition Support,” Mississippi Society for Parenteral and Enteral Nutrition Jackson, MS, December 6, 2005.

“Acid/Base Workshop,” American Society for Parenteral and Enteral Nutrition Clinical Congress, Dallas, TX, February 11, 2006.

“Rotations from the Health-Systems Prospective,” University of Mississippi Preceptor Conference, Jackson, MS, April 19, 2006

“Acid-Base and Electrolyte Management of the TPN Patient,” Veterans Administration Hospital, Jackson, MS, July 20, 2006.

“TPN Pearls for Residents and Medical Students,” Department of Family Medicine, University of Mississippi, Jackson, MS, July 20, 2006.



“Nutrition Support in Inflammatory Bowel Disease,” Crohns and Colitis Foundation, MS Chapter, St. Dominic Hospital, Jackson, MS, August 19, 2006.

“Intravenous Fluids and Rehydration,” University of Mississippi, School of Pharmacy, Jackson, MS, September 8, 2006.

“Parenteral Nutrition Core Curriculum Lecture,” Department of Family Medicine, University of Mississippi, Jackson, MS, October 26, 2006.

“Deciphering Acid-Base Disorders,” Mississippi Society for Parenteral and Enteral Nutrition, Jackson, MS, January 12, 2007.

“Acid-Base Principles,” Post Graduate Workshop, American Society for Parenteral and Enteral Nutrition, Clinical Nutrition Week, Phoenix, AZ, January 27, 2007

“Basic Building Blocks for a Nutrition Support Service,” Clinical Nutrition Week, Phoenix, AZ, January 29, 2007.

“Sepsis: A Case Study,” Case Management Conference, University of Mississippi School of Pharmacy, Jackson, MS, May 4, 2007.

“Acid-Base Management in Parenteral Nutrition,” American Society for Parenteral and Enteral Nutrition Nationwide Teleseminar, June 14, 2007.

“Ethics and Nutrition Support,” Guest Lecturer, Clinical Pastoral Care Class, Baptist Medical Center, Jackson, MS, July 10, 2007.

“Choosing Appropriate Intravenous Fluids,” University of Mississippi School of Pharmacy, Jackson, MS, September 28, 2007.

“Parenteral Nutrition Primer,” University of Mississippi School of Pharmacy, Jackson, MS, October 26, 2007.

“Clinical Pearls for the Nutrition Support Practitioner,” Mississippi Society for Parenteral and Enteral Nutrition Annual Meeting, Philadelphia, MS, January 25, 2008.

“Home Parenteral Nutrition Pearls,” Infusion Partners, Jackson, MS, February 5, 2008.

“Acid-Base and Electrolyte Management,” Post Graduate Course Presenter, Clinical Nutrition Week 2008, Chicago, IL, February 9, 2008.

“Autonomy and Ethics,” University of Mississippi School of Pharmacy, Jackson, MS, February 14, 2008.

“Parenteral Nutrition,” University of Mississippi School of Pharmacy, Jackson, MS, October 30, 2008.

“Autonomy Principle,” University of Mississippi School of Pharmacy, Jackson, MS, January 29, 2009.



“Acid-Base Disorders in Nutrition Support,” Clinical Nutrition Week, New Orleans, LA, January 31, 2009.

“Parenteral Nutrition in the Hospitalized Patient,” Mississippi Dietetic Association Annual Meeting, Jackson, MS, April 3, 2009.

Parenteral Nutrition in the Hospitalized Patient,” Mississippi Society of Health-System Pharmacists Annual Meeting, Biloxi, MS, July 31, 2009.

“What’s Really in That TPN,” Mississippi Society of Health-System Pharmacists Annual Meeting, Biloxi, MS, August 1, 2009.

“Parenteral Nutrition,” University of Mississippi School of Pharmacy, Jackson, MS, September 11, 2009.

“Sepsis-Case Study,” University of Mississippi School of Pharmacy, Jackson, MS, January 15, 2010.

“Sepsis, Role of the Pharmacist,” Mississippi Society of Health System Pharmacists Annual Meeting, Oxford, MS, July 29, 2010.

“Fluids and Electrolytes: What the RD Needs to Know,” American Dietetic Association Food and Nutrition Conference and Expo, Boston, MA, November 7, 2010.

“Nutrition Support in the Hospitalized Patient,” Northwest Mississippi Regional Medical Center, Clarksdale, MS, March 3, 2011.

“Parenteral Nutrition,” University of Mississippi School of Pharmacy, Oxford, MS, March 28, 2011.

“Fluid and Electrolyte Management: Beyond the Basics,” Mid-Atlantic Society for Parenteral and Enteral Nutrition Conference, Charlotte, NC, October 1, 2011.

“Precepting Students,” Great Expectations, American Society of Health-System Pharmacists 2011 Mid-Year Meeting, New Orleans, LA, December 4, 2011.

“Acid-Base Disorders and Understanding ABG’s,” American Society for Parenteral and Enteral Nutrition Clinical Nutrition Week Post-Graduate Course, Orlando, FL, January 21, 2012.

“Parenteral Nutrition and Intravenous Fluids,” University of Mississippi School of Pharmacy, University, MS, February 28, 2012.

“Sodium and IV Fluids Tutorial,” Mississippi Society for Parenteral and Enteral Nutrition Jackson, MS, May 16, 2012.

“Writing the Parenteral Nutrition Order,” Mississippi Society of Health-System Pharmacists Annual Meeting Workshop, Jackson, MS, July 26, 2012.

“Parenteral Nutrition and Intravenous Fluids,” University of Mississippi School of Pharmacy, University, MS, October 22, 2012.



Preceptor Skills Development Networking Session, American Society of Health-System Pharmacists 2012 Mid-Year Meeting, Las Vegas, NV, December 3, 2012.

“Hyponatremia in Heart Failure: Treating Beyond the Primary Diagnosis,” University of Mississippi Medical Center Hospitalists, Jackson, MS, March 6, 2013.

“Hyponatremia in Heart Failure: Treating Beyond the Primary Diagnosis,” Citywide Cardiology Meeting, Ridgeland, MS, March 21, 2013.

“A New Treatment Option To Improve Glycemic Control in Adults with Type 2 Diabetes Mellitus,” Area Physicians, Jackson, MS, April 25, 2013.

“A New Treatment Option To Improve Glycemic Control in Adults with Type 2 Diabetes Mellitus,” Area Physicians, Hattiesburg, MS, May 16, 2013.

“Understanding Hyponatremia: Treating Beyond the Primary Diagnosis,” Mississippi Society of Health-System Pharmacists, Jackson, MS, May 23, 2013.

“Opioid Abuse in the U.S.: Concerns and Strategies,” Jackson Anesthesia Associates, Jackson, MS, June 12, 2012.

“Clinical Applications of the 2013 A.S.P.E.N. Parenteral Nutrition Safety Consensus Recommendations, Safe Administration of Parenteral Nutrition,” American Society of Health-System Pharmacists Midyear Clinical Meeting, Orlando, FL, December 11, 2013.

“Understanding Hyponatremia: Treating Beyond the Primary Diagnosis,” Mississippi Pharmacists Association/Mississippi Society of Health-System Pharmacists, Biloxi, MS, December 17, 2013.

“Opioid Analgesic Abuse in the U.S.,” Baptist Health Systems Tenets for Successful Prescribing of Opioids, Jackson, MS, January 11, 2014.

“Acid-Base Disorders and Understanding ABG’s,” Fluid and Electrolyte Workshop, Clinical Nutrition Week, Savannah, GA, January 18, 2014.

“PN Safety: How Safe is Current Practice and What are the Options?” Clinical Nutrition Week, Savannah, GA, January 20, 2014.

“PN Safety: Where Are We Today?” Ohio Society for Parenteral and Enteral Nutrition, Columbus, OH, March 14, 2014.

“Fundamentals of Fluid, Electrolytes and Acid-Base Disorders: Part 1-Fluids and Electrolytes,” A.S.P.E.N. National Webinar, May 7, 2014.

“PN Safety: Where Are We Today?” Mississippi Society of Health-System Pharmacists Annual Meeting, Natchez, MS, July 18, 2014.

“PN Safety: Where Are We Today?” Mississippi Society for Parenteral and Enteral Nutrition, Jackson, MS, January 23, 2015.



“Acid-Base Disorders,” American Society for Parenteral and Enteral Nutrition Clinical Nutrition Week, Long Beach, CA, February 14, 2015.

“Gaps in the A.S.P.E.N. Parenteral Nutrition Safety Consensus Recommendations,” American Society for Parenteral and Enteral Nutrition Clinical Nutrition Week, Long Beach, CA, February 15, 2015.

“Parenteral Nutrition Safety” Pharmacy Learning Network, Newark, NJ, June 27, 2015.

“Hyperphosphatemia in Chronic Kidney Disease” Mississippi Society of Health-System Pharmacists Annual Meeting, Biloxi, MS, July 31, 2015.

“Tenets for Safe Delivery of Parenteral Nutrition, ASHP National Pharmacy Technician Webinar, September 10, 2015.

“Parenteral Nutrition Safety” Pharmacy Learning Network, Los Angeles, CA, September 19, 2015

“A.S.P.E.N. Parenteral Nutrition Safety Consensus Recommendations: Minimizing Errors with Technology” American Society of Health-System Pharmacists Mid-Year Clinical Meeting, New Orleans, LA, December 8, 2015.

“Essential Tenets in Nutrition Support” American Society of Health-System Pharmacists Mid-Year Clinical Meeting, New Orleans, LA, December 8, 2015.

“Pain Management in the Morbidly Obese Patient” Baptist Health Systems Safe Prescribing of Opioid Prescribers Conference, Jackson, MS, January 9, 2016.

“Acid-Base Disorders,” American Society for Parenteral and Enteral Nutrition Clinical Nutrition Week Post-Graduate Course, Austin, TX, January 16, 2016.

“Hyperglycemia in Patients Receiving Nutrition Support: Clinical Pearls for Glycemic Control” American Society for Parenteral and Enteral Nutrition Clinical Nutrition Week Roundtable, Austin, TX, January 17, 2016.

“Parenteral Nutrition Safety Concerns with the Implementation and Use of Standardized Commercially-Available Parenteral Nutrition Products” American Society for Parenteral and Enteral Nutrition Webinar, February 17, 2016.

“Parenteral Nutrition Primer: Balancing Acid-Base, Fluids and Electrolytes” American Society of Health-System Pharmacists Midyear, 2016 Las Vegas, NV, December 7, 2016.

“Proper Glycemic Management in Patients Receiving Nutrition Support Therapy” American Society for Parenteral and Enteral Nutrition Clinical Nutrition Week Roundtable, Orlando, FL, February 20, 2017.

“Tailoring IVFE to Clinical Practice and Patient Populations” American Society for Parenteral and Enteral Nutrition Clinical Nutrition Week, Orlando, FL, February 21, 2017.

“What are the Key Functionalities Necessary in EHRs to Safely Provide Parenteral Nutrition to Patients” American Society for Parenteral and Enteral Nutrition Clinical Nutrition Week, Orlando, FL, February 21, 2017.



- “Principles of Multimodal Pain Management” Mississippi Pharmacists Association Annual Convention, Sandestin FL, June 12, 2017.
- “ The Skinny on Intravenous Lipid Emulsions” Mississippi Society of Health-System Pharmacists Annual Meeting, Oxford, MS, July 21, 2017.
- “Acid-Base Balance” National Webinar, American Society for Parenteral and Enteral Nutrition, August 8, 2017.
- “Electrolyte Management in the Parenteral Nutrition Patient” Georgia Society for Parenteral and Enteral Nutrition, Atlanta, GA, August 11, 2017.
- “ The Skinny on Intravenous Lipid Emulsions” Michigan Society for Parenteral and Enteral Nutrition Annual Meeting, Grand LeBlanc, MI, November 4, 2017.
- “Assessing the Nutrition Status of Patients in the Hospital Setting” American Society of Health-System Pharmacists Midyear, 2017, Orlando, FL, December 4, 2017.
- “ Use of Parenteral Nutrition in Patients with an Enterocutaneous Fistula (ECF)” American Society of Health-System Pharmacists Midyear, 2017, Orlando, FL, December 4, 2017.
- “ The Skinny on Intravenous Lipid Emulsions” American Society of Health-System Pharmacists Midyear, 2017, Orlando, FL, December 4, 2017.
- “Parenteral Nutrition Overview and Parenteral Nutrition in the Home Environment” American Society for Parenteral and Enteral Nutrition Conference, Las Vegas, NV, January 22, 2018.
- “Injectable Lipid Emulsion Practices” American Society for Parenteral and Enteral Nutrition Video Series, January 2018.
- “Nutrition Support Teams and Parenteral Nutrition: The Past and the Future” Mississippi Society of Health-System Pharmacists Annual Meeting, Oxford MS, July 26, 2018.
- “Parenteral Nutrition and Home Parenteral Nutrition” Nutrition Support Fundamentals Course Live Webinar, August 11, 2018.
- “Enteral Nutrition Primer for Pharmacists” Mississippi Pharmacists Association Consultants Seminar, Jackson, MS, September 11, 2018
- “Practical Approaches to Safe and Appropriate Use of Parenteral Nutrition Therapy” 2018 American Society of Health-System Pharmacists Midday Symposium and Live Webinar, December 4, 2018.
- “Enteral Nutrition Complication” Continuing Education and Professional Development, Purdue University College of Pharmacy, Program for Nutrition Board Certification. January 2019.
- “PN Safety: Where are we today?” Georgia Society of Health-System Pharmacists Annual Meeting, Savannah GA, March 8, 2019.
- “Parenteral Nutrition and Home Parenteral Nutrition” Nutrition Support Fundamentals Course, American Society for Parenteral and Enteral Nutrition Conference, Phoenix, AZ, March 23, 2019.



“Parenteral Nutrition Safety: How about Administration” American Society for Parenteral and Enteral Nutrition Conference, Phoenix, AZ, March 25, 2019.

“Electronic Health Record Tips and Tricks” American Society for Parenteral and Enteral Nutrition Conference, Phoenix, AZ, March 25, 2019.

“Overview of the 2017 ASPEN ILE Survey with Gap Analysis” American Society for Parenteral and Enteral Nutrition Conference, Phoenix, AZ, March 26, 2019.

“Parenteral Nutrition Tenets” Innovatix Home Infusion National Webinar, June 12, 2019.

“Management of Micronutrients “ American Society for Parenteral and Enteral Nutrition National Webinar, June, 23, 2019

“Parenteral Nutrition and Home Parenteral Nutrition” Nutrition Support Fundamentals Course National Webinar, American Society for Parenteral and Enteral Nutrition Conference, August 20, 2019.

“Parenteral Nutrition and the Electronic Health Record” Georgia Society for Parenteral and Enteral Nutrition, Atlanta GA, September 20, 2019.

“Navigating Through the Injectable Lipid Emulsions” Georgia Society for Parenteral and Enteral Nutrition, Atlanta GA, September 20, 2019.

“Reviewing and Verifying the Parenteral Nutrition Order” American Society for Parenteral and Enteral Nutrition National Webinar, May, 27, 2020.

“The Larger Side of Refeeding Syndrome: Recommendations for Adult Patients” American Society for Parenteral and Enteral Nutrition National Webinar, June, 24, 2020.

“Parenteral Nutrition and Home Parenteral Nutrition” Nutrition Support Fundamentals Course National Webinar, American Society for Parenteral and Enteral Nutrition, July 21, 2020.

“Acid-Base Disorders. University of Mississippi School of Pharmacy (PHCY 504), October 30, 2020.

“Parenteral Nutrition and Home Parenteral Nutrition” Nutrition Support Fundamentals Course Live Webinar, March 19, 2021.

“What’s New in ILE Recommendations?” American Society for Parenteral and Enteral Nutrition Conference, March 22, 2021.

“Lipid Injectable Emulsions: Safety Consideration in the Adult Population. American Society for Parenteral and Enteral Nutrition Conference, March 23, 2021.

“What’s New in ILE Recommendations Adults and Pediatrics” Mississippi Society of Health-System Pharmacists Annual Meeting, August 23, 2021.

“Parenteral Nutrition and Home Parenteral Nutrition” Nutrition Support Fundamentals Course American Society for Parenteral and Enteral Nutrition Live Webinar, August 19, 2021.

“Parenteral Nutrition Preparation and Epic Electronic Health Record System”



American Society for Parenteral and Enteral Nutrition Live Webinar, September 7, 2021.

“Lipid Injectable Emulsions: Adults and Pediatrics” University of Mississippi School of Pharmacy, PRCT 475 Nutrition Support Elective, September 20, 2021.

“Fluid and Electrolyte Management Principles” University of Mississippi School of Pharmacy, PRCT 475 Nutrition Support Elective, September 24, 2021.

“Acid-Base Disorders” University of Mississippi School of Pharmacy, PRCT 475 Nutrition Support Elective, September 27, 2021.

“Adult Safety Considerations for Lipid Injectable Emulsions” American Society of Health System Pharmacy Midyear Virtual Meeting, October 25, 2021.

“Acid-Base Disorders. University of Mississippi School of Pharmacy (PHCY 504), October 29, 2021.

“Parenteral Nutrition Access Devices and Complications” University of Mississippi School of Pharmacy, PRCT 475 Nutrition Support Elective, November 1, 2021.

“Parenteral Nutrition Process” International Parenteral Nutrition Safety Summit, Charleston SC, November 8, 2021.

“Parenteral Nutrition and Drug Shortages” International Parenteral Nutrition Safety Summit, Charleston SC, November 8, 2021.

“Parenteral Nutrition Essentials for Safety: Review of Best Practices” Virtual Symposium at ASHP Midyear Clinical Meeting, December 7, 2021.

“Parenteral Nutrition Tenets”, University of Mississippi School of Pharmacy, P3 Class. February 2, 2022.

“Parenteral Nutrition and Home Parenteral Nutrition” Nutrition Support Fundamentals Course American Society for Parenteral and Enteral Nutrition Live Webinar, February 9, 2022.

“What’s New in the World of ASPEN: Update on Guidelines and Recommendations” Southern California Society of Critical Care Medicine Chapter, March 16, 2022.

“Improving Parenteral Nutrition Safety and Patient Outcomes” American Society for Parenteral and Enteral Nutrition 2022 Nutrition Science and Practice Conference, March 28, 2022.

“Implementing Parenteral Nutrition Photoprotection: Current Practices and Safety Challenges, American Society for Parenteral and Enteral Nutrition 2022 Nutrition Science and Practice Conference, March 29, 2022.

“Incorporating Multi-Chamber Bag Parenteral Nutrition (MCB-PN) Formulations into Adult Practice” American Society for Parenteral and Enteral Nutrition National Webinar, June 22, 2022.

“ Photoprotection of Parenteral Nutrition: Why, When and How” Mississippi Society of Health-System Pharmacists, Jackson, MS, July 23, 2022.



“Parenteral Nutrition and Home Parenteral Nutrition” Nutrition Support Fundamentals Course, American Society for Parenteral and Enteral Nutrition Webinar, August 23, 2022.

“Multi-Chamber Parenteral Nutrition: Limitations and Safety Concerns” Institute for Safe Medication Practices Medication Safety Officers Society Webinar, September 22, 2022.

“Transitions of Care in Parenteral Nutrition; Pearls for Ordering” American society for Parenteral and Enteral Nutrition Webinar, October 18, 2022.

“ASPEN Guidelines for Provision of Nutrition Support in the Adult Critically Ill Patient” Science Beyond Limits, Pharmacy Without Borders, 8th Sino-US Pharmacy Webinar, Beijing China, October 21, 2022.

“Acid-Base Disorders” University of Mississippi School of Pharmacy (PHCY 504), October 28, 2022.

“Parenteral Nutrition: Promoting an Umbrella of Safety” American Society of Health-System Pharmacists Midday Symposium. Las Vegas NV, December 5, 2022.

“Parenteral Nutrition Tenets”, University of Mississippi School of Pharmacy, P3 Class. February 1, 2023.

“Government Affairs Update 2023”, Mississippi Pharmacists Association Midwinter Conference, Jackson, MS, February 5, 2023.

“Government Affairs Update 2023”, Mississippi Pharmacists Association Midwinter Conference, Biloxi, MS, February 19, 2023.

“Government Affairs Update 2023”, Mississippi Pharmacists Association Midwinter Conference, Oxford, MS, March 19, 2023.

RESEARCH:

Clintec Multi-Center Enteral Feeding Study, \$10,000 grant, Mississippi Baptist Medical Center, 1996-97.

Fluconazole IV to P.O. Critical Care Study, Pfizer, \$2,000 grant, Mississippi Baptist Medical Center, 2001.

Activated Protein C Study, Pharmacy Coordinator, Mississippi Baptist Medical Center, 2001.

Prescribing Patterns in Parenteral Nutrition, Principal Investigator, Mississippi Baptist Medical Center, 2007.

PUBLICATIONS:

2000 **Ayers P.** MSHP overview. *Southern Journal of Health-System Pharmacy.* 2000; 4:23.



- 2008 **Ayers P**, Warrington L. Diagnosis and treatment of simple acid-base disorders. *Nutrition in Clinical Practice*. 2008;23:122-127.
- 2010 **Ayers P**. Nutrition Support. In Smith K, Riche DM, Henyan eds. *Clinical Drug Data*, 11th ed. New York, NY: McGraw-Hill; 2010:1223-1236.
- 2012 **Ayers P**, Dixon C. Simple acid-base tutorial. *Journal of Parenteral and Enteral Nutrition*. 2012;36:18-23.
- Warrington L, **Ayers P**, Baldwin AM. Implementation of a pharmacist-led, multidisciplinary diabetes management team. *American Journal of Health-System Pharmacy*. 2012;69:1240-1245.
- 2014 **Ayers P**, Adams S, Boullata JI, et.al. A.S.P.E.N. Parenteral nutrition safety consensus recommendations. *J Parenter Enteral Nutr*. 2014;38:296-333.
- Ayers P**, Guenter P, Holcombe B, Plogstead S. *A.S.P.E.N. Parenteral Nutrition Handbook*, 2nd ed. Silver Spring, MD: American Society for Parenteral Enteral Nutrition: 2014.
- Ayers P**, Adams S, Boullata JI, et.al. A.S.P.E.N. Parenteral nutrition safety consensus recommendations: Translation into practice. *Nutrition in Clinical Practice*. 2014;29:277-282.
- 2015 **Ayers P**, Dixon C, Mays AA. Acid-Base Disorders: Learning the Basics. *Nutrition in Clinical Practice*. 2015;30:14-20.
- Ayers P**, Dixon C, Mays AA, Cannon DT. Acid-base balance and nutrition. In: Rajendram R, Preedy VR, Patel VB. eds. *Diet and Nutrition in Critical Care*. New York, NY: Springer-Verlag; 2015.
- Guenter P, Boullata JI, **Ayers P**, et.al. Standardized competencies for parenteral nutrition prescribing: The American Society for Parenteral and Enteral Nutrition Model. *Nutrition in Clinical Practice*. 2015;30:570-576.
- 2016 Vanek VW, **Ayers P**, Charney P, et.al. Follow-up survey on functionality of nutrition documentation and ordering nutrition therapy in currently available electronic health record (EHR) systems. *Nutrition in Clinical Practice*. 2016;31:401-415.
- Boullata JI, Holcombe B, **Ayers P**, et.al. Standardized competencies for parenteral nutrition order review and parenteral nutrition preparation, including compounding: The ASPEN Model. *Nutrition in Clinical Practice*. 2016;31:548-555.
- Ayers P**, Mays AA. Strategies for managing parenteral nutrition shortages. *Pharmacy Purchasing & Products*. 2016 April;13(4)12.
- Ayers P**, Mays AA, Anderson J. Use of commercially available parenteral nutrition products. *Pharmacy Purchasing & Products*. 2016;13(10)16.



2017

Ayers P, Boullata JI, Guenter P, Holcombe B. Lipid injectable emulsions; infusion confusion. *J Parenter Enteral Nutr.* First published date: February 2017. [10.1177/0148607117695252](https://doi.org/10.1177/0148607117695252)

Ayers P, Anderson J, Dixon C, Mays AA. Safe parenteral nutrition prescribing and order review. *Pharmacy Purchasing & Products.* 2017;14(6)2-4.

Guenter P, **Ayers P**, Boullata JI, et. al. Parenteral nutrition errors and potential errors reported over the past 10 years. *Nutr Clin Pract.* 2017;32:826-830.

Christensen ML, **Ayers P**, Boullata JL. et. al. Lipid injectable emulsion survey with gap analysis. *Nutr Clin Pract.* 2017;32:694-702.

2018

Ayers P, Boullata JI, Sacks G. Parenteral nutrition safety: the story continues. *Nutr Clin Pract.* 2018;33:46-52.

DiPaula BA, Mohammad RA, **Ayers P**. et.al. Residents as preceptors and educators: What can we learn from a national survey to improve our residency programs. *Curr Pharm Teach Learn.* 2018 Jan-Feb;10(1):21-27.

Guenter P, Worthington P, **Ayers P**, et.al. Standardized competencies for parenteral nutrition administration: The ASPEN model. *Nutr Clin Pract.* 2018;33:295-304.

Vanek VW, **Ayers P**, Kraft M, et.al. A call to action for optimizing the electronic health record in the parenteral nutrition workflow. *Nutr Clin Pract.* First published: 25 July 2018 <https://doi.org/10.1002/ncp.10095>.

Vanek VW, **Ayers P**, Kraft M, et.al. A call to action for optimizing the electronic health record in the parenteral nutrition workflow. *Am J Health-Syst Pharm.* 2018; 75:1400-1420.

2019

Ayers P, Larry R. Medication Administration with Enteral Nutrition In: Malone A. Carney LN, Carrera A, Mays A. eds. *Enteral Nutrition Handbook 2nd ed.*. Silver Spring, MD American Society for Parenteral and Enteral Nutrition;2019.

2020

Ayers P, Foster J, Kanorwala A. et al. Electronic health record and parenteral nutrition functionality: a gap analysis. *Nutr Clin Pract.* 2020. First published:03 February 2020 <https://doi.org/10.1002/ncp.10463>.

da Silva JSV, Seres DS, **Ayers P**. et al. ASPEN consensus recommendations for refeeding syndrome. *Nutr Clin Pract.* 2020;35:178-195.

Ayers P, Bobo E, Hurt R, Mays A, Worthington P. *A.S.P.E.N. Parenteral Nutrition Handbook*, 3rd ed. Silver Spring, MD: American Society for Parenteral Enteral Nutrition: 2014.

Mirtallo, JM, **Ayers P**, Boullata J, et al. ASPEN lipid injectable emulsion safety recommendations, Part 1: Background and adult considerations. *Nutr Clin Pract*, 2020;35:769–782.



Kraft MD, Tucker AM, **Ayers P.** et al. Parenteral nutrition prescribing and order review study: the need for pharmacist intervention. *Nutr Clin Pract.* 2020.
First published: 04 December 2020 <https://doi/10.1002/ncp.10600>.

2021

Robinson DT, **Ayers P.**, Fleming B. et al. Recommendations for photoprotection of parenteral nutrition for premature infants: An ASPEN position paper. *Nutr Clin Pract.* 2021.;36:927-941.

Mirtallo JM, **Ayers P.** Parenteral Nutrition Safety. *Pharmacy Practice News* 2021;48(9):17-20.

Cober MP, Gura KM, **Ayers P. et al.** ASPEN lipid injectable emulsion safety recommendations part 2. Neonate and pediatric considerations. *Nutri Clin Pract.* 2021;1-20.
<https://doi.org/10.1002/ncp.10778>.

2022

Ayers,P, Harlow M, Scott L. Parenteral nutrition: review of recent American Society for Parenteral and Enteral Nutrition publications. *Recent Progress in Nutrition.* 2022;2(1):1-5.
doi:10.2196/rpn.2201002.

Ayers P, Nerren L. Implement a parenteral nutrition photoprotection strategy. *Pharmacy Purchasing & Products.* 2022 August Parenteral Nutrition Supplement.

Ayers P, Mays A, Erwin S, Cochran-Ayers A. Best practices for parenteral nutrition filtering. *Pharmacy Purchasing & Products.* October 2022. Volume 19. Number 10.

Mays A, Ayers P, Murphy MK. Address parenteral nutrition shortages with multi-chamber bag-parenteral nutrition. *Pharmacy Purchasing & Products.* November 2022. Volume 19. Number 11.

REVIEWER:

Hospital Pharmacy, Manuscript Reviewer: 2007-present

Nutrition in Clinical Practice, Manuscript Reviewer: 2010-present

Journal of Parenteral and Enteral Nutrition, Manuscript Reviewer: 2011-present

Nutrients, Manuscript Reviewer 2017-present

Gastrointestinal Disorders, Manuscript Reviewer: 2022

Healthcare Manuscript, Manuscript Reviewer: 2022-

International Journal of Environmental Research and Public Health, Manuscript Reviewer: 2022

BMC Medicine Manuscript Reviewer: 2022

Journal of Epidemiology and Global Health, Manuscript Reviewer: 2012

Currents in Pharmacy Teaching and Learning, Manuscript Reviewer: 2012-2015



TOPIC EDITOR

Nutrients 2020-present

POSTER PRESENTATIONS:

ABC's of Initiating a Disease Management Practice in Mississippi: A MSHP/MPhA Collaborative Project Presentation, Noble S, Dickey S, King D, **Ayers P**, Vinson M, Lee J. ASHP Midyear Meeting 1999.

Transition from Self-Management to Association Management: Lessons Learned, Tidwell B, Noble S, **Ayers P**. ASHP Midyear Meeting 2000.

The 2001 Winter Seminar of the Mississippi Society of Health-System Pharmacists, Harrell K, **Ayers P**, King D, Tidwell, B. ASHP Midyear Meeting 2001.

Utilization of a Nutrition Support Service, **Ayers P**, Cannon DT, Parker AF, Dent AS. ASHP Midyear Meeting 2002.

Implementation of a Pharmacists-Led Multidisciplinary Inpatient Diabetes Management Team, **Ayers P**, Warrington L, Baldwin AM. ASHP Midyear Meeting 2011.

Implementation of a Pharmacist-Led Interprofessional Diabetes Management Team in an Inpatient Setting, Baldwin AM, **Ayers P**, Wallace V, Dixon C, Warrington L, Riche KD, Mosley N. ASHP Midyear Meeting 2012.

Evaluation of Parenteral Nutrition Use in One Institution. Hawkins K, **Ayers P**. ASHP Midyear 2022.

CASE STUDY DEVELOPMENT:

Pharmaceutical Care I and II, Problem Based Learning (PBL)
University of Mississippi School of Pharmacy
Case Author/Co-Author

2002: Sepsis PBL Case
Anemia Management Mini-Case
Anorexia Mini-Case

2003: Sepsis PBL Case
Pancreatitis PBL Case
Anemia Management Mini-Case

2004: Sepsis PBL Case
AWS/Pancreatitis Case
Anemia Management Mini-Case

2005: Sepsis PBL Case
AWS/Pancreatitis Case
Anemia Management Mini-Case



- 2006: Sepsis PBL Case
AWS/Pancreatitis Case
Anemia Management Mini-Case
- 2007: Sepsis PBL Case
AWS/Pancreatitis Case
- 2008: AWS/Pancreatitis Case
Sepsis Case
- 2009: AWS/Pancreatitis Case
Sepsis Case
- 2010: AWS/Pancreatitis Case
Fluid Management Case
- 2011: AWS/Pancreatitis Case
Fluid Management Case
- 2012: AWS/Pancreatitis Case
Fluid Management Case
- 2013: AWS/Pancreatitis Case
Fluid Management Case
- 2014: AWS/Pancreatitis Case
Fluid Management Case
- 2015: AWS/Pancreatitis Case
Fluid Management Case
- 2016: AWS/Pancreatitis Case
Fluid Management Case
- 2017: AWS/Pancreatitis Case
Fluid/Acid-Base Management Case
- 2018: AWS/Pancreatitis Case
Fluid/Acid-Base Management Case
- 2019: AWS/Pancreatitis Case
Fluid/Acid-Base Management Case
- 2020: AWS/Pancreatitis Case
Fluid/Acid-Base Management Case
- 2021: AWS/Pancreatitis/Parenteral Nutrition Case
- 2022: AWS/Pancreatitis/Parenteral Nutrition Case
- 2023: AWS/Pancreatitis/Parenteral Nutrition Case