

MIRANDA R. ANDRUS, PHARMD, FCCP, BCPS

301 GOVERNORS DRIVE, SUITE 385B, HUNTSVILLE AL 35801

(256) 551-4458

andrumr@auburn.edu

CURRENT POSITIONS

Clinical Professor of Pharmacy Practice; October 2018 - present

Auburn University Harrison School of Pharmacy; Auburn, Alabama

Clinical Associate Professor of Family Medicine; August 2005 - present

University of Alabama at Birmingham School of Medicine - Huntsville Regional Medical Campus;
Huntsville, Alabama

PREVIOUS POSITIONS

Associate Clinical Professor of Pharmacy Practice; August 2005 – September 2018

Auburn University Harrison School of Pharmacy; Auburn, Alabama

Assistant Clinical Professor of Pharmacy Practice; August 2000 - July 2005

Auburn University Harrison School of Pharmacy; Auburn, Alabama

Clinical Assistant Professor of Family Medicine; May 2004 - July 2005

University of Alabama at Birmingham School of Medicine - Huntsville Regional Medical Campus;
Huntsville, Alabama

Co-Director, Primary Care Residency; January 2003 - April 2004

DCH Regional Medical Center Department of Pharmacy; Tuscaloosa, Alabama

Co-Director, Rural Primary Care Residency; August 2000 - June 2001

Rural Alabama Area Health Education Center (AHEC) and Auburn University Harrison School of
Pharmacy; Tuscaloosa, Alabama

Clinical Assistant Professor of Community and Rural Medicine; August 2000 - April 2004

University of Alabama College of Community Health Sciences; Tuscaloosa, Alabama

Interdisciplinary Education Coordinator; August 2000 - September 2002

Rural Alabama Area Health Education Center (AHEC); Tuscaloosa, Alabama

EDUCATION & CERTIFICATION

Board Certified Pharmacotherapy Specialist (BCPS); December 2002

Board of Pharmaceutical Specialties; Washington, DC

Primary Care Specialty Residency; July 1999 - June 2000

Durham Veteran Affairs Medical Center and University of North Carolina at Chapel Hill School of
Pharmacy; Durham, North Carolina

Doctor of Pharmacy; Magna Cum Laude; May 1999

Samford University McWhorter School of Pharmacy; Birmingham, Alabama

Pre-Pharmacy Curriculum; August 1992 - May 1995

Trevecca Nazarene University; Nashville, Tennessee

LICENSURE

Alabama; 2000 - present

North Carolina; 1999 - 2016

HONORS AND AWARDS

- **Preceptor of Excellence Award**, Auburn University Harrison School of Pharmacy; Huntsville Region; Auburn, Alabama; April 2010, April 2012 and April 2017
- **Pharmacy Practice Experience (PPE) Intervention Award**, presented to the PPE team with the most documented interventions on the previous year; Harrison School of Pharmacy; Auburn, Alabama; Team 21, Mentored by Dr. Andrus; April 2015 and April 2019
- **First Place Poster Presentation: Andrus MR**, Wright BM, Brakefield N, Hansen RA. "Pilot study of a Medometer adherence tool in hypertensive patients". Alabama Society of Health-System Pharmacists; Summer Meeting and Exhibit Show; Pensacola, Florida; June 2015
- **Teacher of the Year Award, July 2015**
American Associate of Colleges of Pharmacy (AACP), Representative for Auburn University Harrison School of Pharmacy
- **Excellence in Teaching Award**, awarded based on peer reviewed portfolio, Auburn University Harrison School of Pharmacy; Auburn, Alabama; April 2015
- **2014 American Association of Colleges of Pharmacy (AACP) Walmart Scholarship Program Mentor**; AACP Annual Meeting; Grapevine, Texas; July 2014
- **Outstanding Original Paper Finalist**: Eiland LS, Germain K, Forrester J, **Andrus MR**. "Accuracy of medication formularies in a pediatric clinic electronic health record and Epocrates mobile application". Top 3 out of 50 posters, Pediatric Pharmacy Advocacy Group Annual Meeting, May 2014
- **Pharmacy Student Council Student Advocate Award**; Auburn University Harrison School of Pharmacy; Auburn, Alabama; April 2010
- **Fellow of the American College of Clinical Pharmacy (FCCP)**; awarded to individuals who have made sustained contributions to the College and who have demonstrated exception performance in clinical pharmacy practice and/or research; October 2009
- **Preceptor of Excellence Award**, Auburn University Harrison School of Pharmacy; Birmingham/Tuscaloosa Region; Auburn, Alabama; April 2004
- **Third Place Poster Presentation: Andrus MR**, Murphey LM, Herndon KC. "Improving diabetes care in a rural family medicine clinic". Alabama Society of Health-System Pharmacists; Summer Meeting and Exhibit Show; Destin, Florida; July 2003
- **Finalist in the American College of Clinical Pharmacy 2000 Annual Meeting Best Student, Resident, Fellow Paper Award Competition**; September 2000

TEACHING ACTIVITIES

Auburn University Harrison School of Pharmacy; Auburn, Alabama

- **Advanced Pharmacy Practice Experience Orientation and Career Prep Workshop**
Co-developer and presenter for one-week course for P3s, 2019 - present
- **Integrated Learning Experience V (PYDP 9240)**
Co-content expert for Smoking Cessation, 2018 - present
- **Integrated Learning Experience II (PYDP 9210)**
Co-content expert for Smoking Cessation, 2017 - present
- **Orientation (PYPD 9000)**
Co-course developer and presenter for Co-Curriculum/Advocacy Unit, 2017 - present
- **Co-curriculum Coordinator, January 2017 - present**
- **Advanced Pharmacy Practice Experience (PYDI 9640, 9650)**
Primary/Ambulatory Care I and II Clerkships; 2000 - present
- **Early Pharmacy Practice Experience (PYDI 9090, 9190, 9290, 9390, 9490, 9590)**
Team Leader and PharmD Student Mentor; 2000 - 2019
- **Integrated Pharmacotherapy (PYDI 9470, 9480, 9580, 9590)**
Small Group Facilitator; 2007 - 2018
Hypertension Content Expert; 2009 - 2014
COPD Content Expert; 2009
Tobacco Abuse Content Expert; 2007 - 2008
- **Contemporary Aspects of Pharmacy Practice V (PYDI 9420)**
Smoking Cessation Products Pre-Lab and Lab; 2007 - 2018
- **Professional Seminar (PYDI 9690)**
Course Co-Coordinator; 2015 - 2017
Advisor; 2011 - 2017
- **Contemporary Aspects of Pharmacy Practice VII (PYDI 5440)**
Clinical Seminar and Manuscript Preparation Advisor; 2008 - 2011
- **Clinical Seminar and Poster Presentation (PYPP 5680)**
Advisor; 2000 - 2008
- **Pharmacotherapy (PYDI 5410-5530)**
Pulmonary Module (PYDI 5420)
Smoking Cessation Content Expert; 2002 - 2006
Large Group Facilitator; 2002 - 2006
Small Group Facilitator; 2003 - 2005
Cardiology Module I (PYDI 5410)
Hypertension Content Expert; 2000, 2001, 2005
Large Group Facilitator; 2001
Small Group Facilitator; 2001, 2002, 2004
Infectious Disease Module II (PYDI 5530)
Sexually Transmitted Diseases Content Expert; 2001 - 2002
Large Group Facilitator; 2001 - 2002
- **Women's Health Elective (PYPP 5900)**
Smoking Cessation in Women; 2000 - 2005

University of Alabama at Birmingham School of Medicine – Huntsville Regional Medical Campus; Huntsville, Alabama

- Preceptor, Special Topics Elective for Medical Students: “Clinical Medicine in the Dominican Republic” (Course # STP 2135); April 2018
- Lecturer, Third and Fourth Year Medical Student Pharmacology Co-Enrolled Elective (Course # 06-423H); 2018 - present
- Preceptor, Third Year Medical Student Family Medicine Clerkship (Course #02-301); 2017 - present
- Co-Coordinator, Interprofessional Debates, Family Medicine 3rd year Residents and HSOP P4s; 2017 - present
- Lecturer, Dean’s Conference for Third Year Medical Students; 2009 - present
- Preceptor, Pharmacotherapy Elective Rotation for Medical Residents; 2008 - present
- Lecturer, Required Didactic Curriculum (Noon Conference) for Family Medicine Residents; 2005 - present
- Preceptor, Scholar’s Week Course for Medical Students: “Pharmacotherapy”; 2005 - 2012

Huntsville Hospital; Huntsville, Alabama

- **Pharmacy Practice Residency**
Preceptor, Academic Elective Rotation; January 2007 - present
Preceptor, Ambulatory Care Elective Rotation; July 2005 - present
Preceptor, Ambulatory Care Longitudinal Elective Rotation; September 2004 - June 2005

DCH Regional Medical Center; Tuscaloosa, Alabama

- **Primary Care Specialty Residency**
Co-Director; January 2003 - April 2004
Interim Director; July 2001 - September 2001
Resident Research Advisor; August 2000 - April 2004
Preceptor; August 2000 - April 2004
 Ambulatory Care Longitudinal Required Rotation
 Primary Care Required Rotation
 Research Required Rotation
 Student Preceptorship Elective Rotation
- **Pharmacy Practice Residency**
Preceptor, Ambulatory Care Longitudinal Required Rotation; August 2000 - April 2004
Resident Research Advisor; August 2000 - April 2004

Rural Alabama Area Health Education Center (AHEC); Tuscaloosa, Alabama

- **Rural Primary Care Specialty Residency**
Co-Director; August 2000 - July 2001
Resident Research Advisor; August 2000 - July 2001
Preceptor; August 2000 - July 2001
 Ambulatory Care Longitudinal Required Rotation
 Primary Care Required Rotation
 Research Required Rotation
 Student Preceptorship Elective Rotation

University of Alabama College of Community Health Sciences; Tuscaloosa, Alabama

- **Pharmacotherapy Elective for Senior Family Medicine Residents**
Preceptor; February 2004
- **Practical Issues in Behavioral Medicine (CHS 442/542)**
Lecturer: "Health Literacy"; September 2003
- **Rural Medicine Required Clerkship for Third Year Medical Students**
Advisor; August 2000 - April 2004
- **Scholar's Week Course for Third Year Medical Students**
Course Coordinator: "Pharmacotherapy"; May 2001

University of North Carolina School of Pharmacy, Chapel Hill; North Carolina

- **Pharmaceutical Care Laboratory III (PHCY 79L)**
Clinical Instructor; August 1999 - May 2000
- **Ambulatory Care Pharmacy Practice (PHPR 110)**
Lecturer: "Smoking Cessation"; Fall 1999, Spring 2000
- **Self-Care and Nonprescription Drugs (PHCY 168)**
Lecturer: "Acid/Peptic Disorders"; Spring 2000
- **Ambulatory Care Clerkship (PHCY 184)**
Preceptor; August 1999 - June 2000

SCHOLARLY ACTIVITIES

Extramural Grants

- **Andrus MR, Smith RE.** Rural Alabama Area Health Education Center (RAAHEC) Interdisciplinary Education. RAAHEC/US Department of Health and Human Services; Washington, DC
Requested \$38,500 October 2002; funded \$38,500 October 2002
Requested \$69,200 October 2001; funded \$69,200 October 2001
Requested \$69,200 October 2000; funded \$69,200 October 2000
- **Donaldson AR, Andrus MR.** Improving Lipid Levels in the Rural Community through Pharmacist Intervention. University of Alabama College of Community Health Sciences Research Committee.
Requested \$2,500 January 2001; funded \$2,500 March 2001.

Intramural Grants

- **Kleppinger E, Andrus MR, Chung A, Clark DB, Freeman KG, Stump A.** Enhancing Diabetes Awareness through Simulated Case Experiences. Auburn University Daniel F. Breeden Endowment for the Enhancement of Teaching. Requested \$1,986 March 2005; funded \$1,986 May 2005.

Publications

Articles in Refereed Journals

(†student or resident contribution)

- **Steuber TD, Lee J†, Holloway A†, Andrus MR.** Nondihydropyridine calcium channel blockers for the treatment of proteinuria: a review of the literature. *Annals of Pharmacotherapy* 2019. DOI: 10.11177/1060028019843644.

- Lisenby KM, **Andrus MR**, Jackson C, Stevenson TL, Fan S, Gaillard P, Carroll DC. Ambulatory care preceptors' perceptions on SOAP note writing in advanced pharmacy practice experiences (APPEs). *Currents in Pharmacy Teaching and Learning* 2018;10:1574-1578.
- **Andrus MR**, McDonough SLK, Kelley KW, Stamm PL, McCoy EK, Lisenby KM, Whitley HP, Slater N, Carroll DG, Hester EK, Helmer AM, Jackson CW, Byrd DC. Development and validation of a rubric to evaluate diabetes SOAP note writing in APPE. *American Journal of Pharmaceutical Education* 2018;82(9):1045-1050. Article 6725.
- Phillippe HM, Wright BW, Bowerman KE†, **Andrus MR**. Pharmacist interventions regarding the appropriateness of apixaban, rivaroxaban, dabigatran and warfarin in a university affiliated outpatient clinic. *The Journal of Pharmacy Technology* 2016;32(6):245-252.
- **Andrus MR**, Stevenson TS, Eiland LS. Use of clinical intervention databases by student pharmacists and recent pharmacy graduates. *American Journal of Health-System Pharmacy* 2016;73:1916.
- **Andrus MR**, Forrester JB†, Germain KE†, Eiland LS. Accuracy of pharmacy benefit manager medication formularies in an electronic health record system and the Epocrates mobile application. *Journal of Managed Care and Specialty Pharmacy* 2015;21(4):281-286.
- **Andrus MR**, Stevenson TL. Three year review of pharmacy students' interventions and activities in an outpatient teaching family medicine center. *Currents in Pharmacy Teaching and Learning* 2015;7(2):192-198.
- **Andrus MR**, Anderson AD†. A retrospective review of student pharmacist reconciliation activities in an outpatient family medicine center. *Pharmacy Practice (internet)* 2015;13(1):581.
- Carroll D, McDonough S, Starr J, **Andrus MR**, Stevenson TL, Liles AM. A comparison of rubrics for professional seminars given by doctor of pharmacy candidates. *Currents in Pharmacy Teaching and Learning* 2013;5:288-294.
- **Andrus MR**. Student pharmacist initiated medication reconciliation in the outpatient setting. *Pharmacy Practice (internet)* 2012;10(2):78-82.
- Haines ST, **Andrus MR**, Badowski M, Bradbury M, Canales AE, Cavanaugh JM, et al. ACCP Position Statement: Board certification of pharmacist specialists. *Pharmacotherapy* 2011;31(11):1146-1149.
- Stevenson TL, Fox BI, **Andrus MR**, Carroll D. Implementation of a school-wide clinical intervention documentation system. *American Journal of Pharmaceutical Education* 2011;75(5):1-8.
- Fox BI, **Andrus MR**, Hester EK, Byrd DC. Selecting a clinical intervention documentation system for an academic setting. *American Journal of Pharmaceutical Education* 2011;75(2):1-11.
- Hornsby LB, Przybylowicz J†, **Andrus MR**, Starr J. Survey of physician knowledge and counseling practices regarding acetaminophen. *Journal of Patient Safety* 2010;6:216-220.
- **Andrus MR**, Gilbert E†. Treatment of civilian and combat-related posttraumatic stress disorder with topiramate. *Annals of Pharmacotherapy* 2010;44:1810-1816.
- **Andrus MR**, East J†. Use of statins in patients with chronic hepatitis C. *Southern Medical Journal* 2010;103:1018-1024.
- Phillippe HM†, **Andrus MR**, Sims M†, McDaniel MR. Potential cost savings: a health system-based employee outpatient pharmacy formulary. *Hospital Pharmacy* 2010;45(6):472-477.
- **Andrus MR**, Loyed JV. Use of beta-adrenoceptor antagonists in older patients with chronic obstructive pulmonary disease and cardiovascular co-morbidity. *Drugs in Aging* 2008;25(2):131-144.
- **Andrus MR**, Clark DB†. Provision of pharmacotherapy services in a rural nurse practitioner clinic. *American Journal of Health-System Pharmacy* 2007;64:294-297.

- **Andrus MR**, Donaldson AR†. Outcomes of a lipid management program in a rural nurse practitioner clinic. *Annals of Pharmacotherapy* 2006;40:782.
- Clark DB†, **Andrus MR**, Byrd DC. Drug interactions between linezolid and selective serotonin reuptake inhibitors: Case report involving sertraline and review of the literature. *Pharmacotherapy* 2006;26(2):269-276.
- Clark DB†, Byrd DC, **Andrus MR**, Rodgers T, Martin TA. Decreasing costs and optimizing therapy of erythropoietic medications in a hospital-based outpatient cancer treatment center. *Hospital Pharmacy* 2005;40(9):788-795.
- Roth MT, **Andrus MR**. Outcomes from an outpatient smoking cessation clinic. *Pharmacotherapy* 2005;25(2):279-288.
- Finch CK, **Andrus MR**, Curry W. Nicotine replacement associated SIADH (case report). *Southern Medical Journal* 2004;97(3):322-324.
- **Andrus MR**, Kelley KW, Murphey LM†, Herndon KC. A comparison of diabetes care in rural and urban clinics in Alabama. *Journal for Community Health* 2004;29(1):29-44.
- Donaldson AR†, **Andrus MR**. A pharmacist-run lipid management program in rural Alabama. *American Journal of Health-System Pharmacists* 2004;61:493-497.
- **Andrus MR**. Oral anticoagulant drug interactions with statins: Case report of fluvastatin and review of the literature. *Pharmacotherapy* 2004;24(2):285-290.
- **Andrus MR**, Holloway KP†, Clark DB†. Use of beta-blockers in patients with COPD. *Annals of Pharmacotherapy* 2004;38:142-145.
- **Andrus MR**, Roth MT. Health literacy: A review. *Pharmacotherapy* 2002;22(3):282-302.
- **Andrus MR**. Pain Management 2: The therapeutic management of pain. In: Supernaw RB, editor. *Pain Management I-IV*. Lawrence, KS: Pharmat Inc.
- Choi YJ, Park YJ, **Andrus MR**, Sands CD. Evaluating the necessity of routine monitoring of netilmicin serum concentrations in Korean pediatric patients with normal renal function. *Korean Journal of Infectious Disease* 2001;33:285-291.

Peer-Reviewed Book Chapters

- **Andrus MR**, Pinner NA. Chronic Obstructive Pulmonary Disease. In: Sutton S, editor. *NAPLEX Review Guide*. 3rd edition. New York: McGraw-Hill; 2018. p. 432-439.
- **Andrus MR**, Pinner NA, Sutton S. Chronic Obstructive Pulmonary Disease. In: Sutton S, editor. *NAPLEX Review Guide*. 2nd edition. New York: McGraw-Hill; 2015. p. 390-397.
- **Andrus MR**, Sutton S. Chronic Obstructive Pulmonary Disease. In: Sutton S, editor. *NAPLEX Review Guide*; New York: McGraw-Hill; 2010. p. 375-383.

Invited Articles

- **Andrus MR**. You and Your Pharmacist. *Shape Your Life: Healthy Living and the Health Care System*. Alabama Cooperative Extension System; Auburn, Alabama; 2009.
- **Andrus MR**. Addressing the problem of low health literacy. *Healthy People, Health Communities Electronic Newsletter* 2004;6(5).
- **Andrus MR**. You, Your Child, and Your Pharmacist. *Beginning Education Early's BEEing Healthy: You and Your Health Care System curriculum*. Alabama Cooperative Extension System; Auburn, Alabama; 2004.
- **Andrus MR**, Roth MT. When “Johnny” can’t read: Helping patients with low health literacy. *Tennessee Pharmacist* 2002;39(2):5.
- **Andrus MR**, Roth MT. Addressing the problem of low health literacy. *Alabama Pharmacy* November/December 2002:7.

Peer-Reviewed Poster Presentations

International Poster Presentations (*presenter, †student or resident contribution)

- **Andrus MR***, Steuber TD*, Powell EA†. The impact of international interprofessional experiences on perceptions of pharmacist-physician relationships. American College of Clinical Pharmacy (ACCP) Global Conference on Clinical Pharmacy; Seattle; Washington; October 2018.
- **Andrus MR***, Eiland LS, Stevenson TL. Documentation of clinical interventions during APPEs by students who accept residencies after graduation. ACCP Global Conference on Clinical Pharmacy; San Francisco, California; October 2015.
- Hornsby L*, **Andrus MR**, Starr J. Survey of physician knowledge regarding acetaminophen dosing, toxicity, and product recognition. American College of Clinical Pharmacy (ACCP)/European Society of Clinical Pharmacy (ESCP) International Congress on Clinical Pharmacy; Orlando, Florida; April 2009.

National Poster Presentations (*presenter, †student or resident contribution)

- Steuber TD*, Phillippe HM, Wright BM, **Andrus MR**. Interprofessional debate activity as a method of literature evaluation: a two-year analysis. American Association of Colleges of Pharmacy (AACP) Annual Meeting; Chicago, Illinois; July 2019.
- Steuber TD*, Phillippe HM, Wright BM, **Andrus MR***. Interprofessional debate activity as a method of literature evaluation: an interim, year-long analysis. AACP Annual Meeting; Boston, Massachusetts; July 2018.
- Steuber TD*, Wright, BM, Phillippe HM, **Andrus MR***. Interprofessional education simulation day and its impact on residents' perceptions of pharmacist-physician collaboration. AACP Annual Meeting; Boston, Massachusetts; July 2018.
Encore from American Society of Health-Systems Pharmacists (ASHP) Midyear Clinical Meeting student presentation 2017.
- Lisenby KM, Garza KB, **Andrus MR***. Survey of student perceptions of self-directed activities with pre-post exams for primary care APPEs. ACCP Annual Meeting; Phoenix, Arizona; October 2017.
- Lisenby KM*, Garza KB, **Andrus MR***. Development and validation of a pre- post-exam with self-directed activities for primary care APPEs. AACP Annual Meeting; Nashville, Tennessee; July 2017.
- **Andrus MR***, Carroll DG, Lisenby KM, Stevenson TL, Fan S, Gaillard P, Jackson CW. Survey of ambulatory care preceptors regarding SOAP note writing in advanced pharmacy practice experiences (APPEs). AACP Annual Meeting; Anaheim, California; July 2016.
- Schmidt S†, Kelley KW, Hutchison A, **Andrus MR**, Armstrong EM, Carroll DG, Lee P, *Phillippe HP. Student pharmacists' perceptions of working with geriatric patients before and after Advanced Pharmacy Practice Experiences. American Society of Consultant Pharmacists Annual Meeting; Las Vegas, Nevada; October 2015.
- Eiland LS*, Stevenson TL, **Andrus MR**. Current use and perceptions of clinical intervention databases by pharmacy graduates. AACP Annual Meeting; National Harbor, Maryland; July 2015.
- Wright BM, Phillippe HM, **Andrus MR***. Pharmacy student interventions for Medicaid patients during a major formulary change. ACCP Annual Meeting; Austin, Texas; October 2014.
Encore presentation: Alabama Society of Health-System Pharmacists (AISHP) Summer Meeting; Pensacola, Florida; June 2014.

- Phillippe HM, Wright BM, **Andrus MR***, Tigie BP†, Bowerman KE†. Review of the appropriateness of apixaban, rivaroxaban, and dabigatran therapy. ACCP Annual Meeting; Austin, Texas; October 2014.
- **Andrus MR***. Impact of the development of a customized SOAP note evaluation form. AACP Annual Meeting; Grapevine, Texas; July 2014.
- Eiland LS*, Germain K†, Forrester J†, **Andrus MR**. Accuracy of medication formularies in a pediatric clinic electronic health record and Epocrates mobile application. Pediatric Pharmacy Advocacy Group (PPAG) Annual Meeting; Nashville, Tennessee; May 2014.
- Anderson AD*†, **Andrus MR**. Student pharmacist medication reconciliation in an outpatient family medicine center. ACCP Annual Meeting; Albuquerque, New Mexico; October 2013.
- **Andrus MR***. Stevenson TL. Interventions by student pharmacists in an outpatient teaching family medicine center. ACCP Annual Meeting; Hollywood, Florida; October 2012.
Encore presentation: AISHP Summer Meeting; Destin, Florida; June 2013.
- Carroll DG*, McDonough S, Liles AM, Starr J, **Andrus MR**, Stevenson TL. Comparison of grading rubrics for professional seminars given by Doctor of Pharmacy candidates. AACP Annual Meeting; Kissimmee, Florida; July 2012.
- **Andrus MR***, Kelley KW, DeHart RM, Herndon KC. Control of vascular disease risk factors among adults with diabetes in Alabama. ACCP Annual Meeting; San Francisco, California; October 2005.
Encore presentation: Fifth Annual Rural Health Conference; April 2004; Tuscaloosa, Alabama.
- **Andrus MR***, Clark DB†. Provision of pharmacotherapy services in a rural nurse practitioner clinic. ACCP Annual Meeting; Dallas, Texas; October 2004.
Encore presentation: Sixth Annual Rural Health Conference; Tuscaloosa, Alabama; April 2005.
- **Andrus MR***, Clark DB†, Herndon KC. Goal attainment of diabetes quality indicators in patients enrolled in medication assistance programs. National Rural Health Association 27th Annual Conference; San Diego, California; May 2004.
Encore presentation: Fifth Annual Rural Health Conference; April 2004; Tuscaloosa, Alabama.
- **Andrus MR***, Donaldson AR†, Herndon KC. Implementation of a pharmacist-managed lipid clinic in a rural nurse practitioner practice. ACCP Annual Meeting; Atlanta, Georgia; November 2003.
Encore presentation: AISHP Summer Meeting; June 2004; Point Clear, Alabama.
- **Andrus MR***, Murphey LM†, Herndon KC. Improving diabetes care in a rural family medicine clinic. ACCP Annual Meeting; Albuquerque, New Mexico; October 2002.
July 2003; Destin, Florida.
Encore presentation: Fourth Annual Rural Health Conference; April 2003; Tuscaloosa, Alabama.
- Braxton Lloyd K*, Buring SM, Krueger JL, Fanning KD, Stamm PL, **Andrus MR**, Taylor CT. Increasing awareness of nontraditional women's health issues through an interactive, innovative women's health elective. AACP Annual Meeting and Seminars; Kansas City, Missouri; July 2002.
- **Andrus MR***, Roth MT, Westman EC. Outcomes from a pharmacist-managed smoking cessation clinic. ACCP Annual Meeting; Los Angeles, California; November 2000.

National Student Poster Presentations (*presenter)

- Squires CD*, Jenkins RJ, Steuber TD, **Andrus MR**, Phillippe HM. Interprofessional education simulation and its effect on residents' opinions of pharmacy. American Society of Health-Systems Pharmacists (ASHP) Midyear Clinical Meeting; Orlando, Florida; December 2017.
- Howorth R*, Steuber TD, Phillippe HM, Wright BM, **Andrus MR**. Evaluation and perceptions of an interprofessional debate activity as a method of literature evaluation: an interim analysis. ASHP Midyear Clinical Meeting; Orlando, Florida; December 2017.
Encore presentation: UAB-Huntsville Regional Campus Research Conference; Huntsville, Alabama; April 2018
- Brown L*, Nguyen J, Lodhi A, **Andrus MR**, Wright BM. Evaluation physician perceptions of learning based on utilizing clinical pharmacy services. ASHP Midyear Clinical Meeting; Orlando, Florida; December 2017.
Encore presentation: UAB-Huntsville Regional Campus Research Conference; Huntsville, Alabama; April 2018
- Dang JT*, Slater N, Meyer A, Jackson C, Whitley HP, **Andrus MR**. Survey of students' perception of SOAP note writing in advanced pharmacy practice experiences (APPEs). ASHP Midyear Clinical Meeting; Las Vegas, Nevada; December 2016.
- Richardson M*, Yordy B*, **Andrus MR**, Phillippe HM, Wright BM. The impact of a pharmacist managed smoking cessation program within two university affiliated clinics. ASHP Midyear Clinical Meeting; Las Vegas, Nevada; December 2016.
Encore presentation: ASHP Summer Meeting; Destin, Florida; June 2017.
- Wright BM*, **Andrus MR**, Brakefield N, Hansen RA. Pilot study of a medometer adherence tool in hypertensive patients. ASHP Midyear Clinical Meeting; New Orleans, Louisiana; December 2015.
- **Andrus MR**, Wright BM*, Anderson AD*. Pharmacist medication reconciliation in an outpatient internal medicine center. ASHP Midyear Clinical Meeting; New Orleans, Louisiana; December 2015.
- Carrell LW*, **Andrus MR**, Stevenson TL, Eiland LS. Impact analysis of interventions by fourth year pharmacists in affiliated practice sites during advanced pharmacy practice experiences. ASHP Midyear Clinical Meeting; New Orleans, Louisiana; December 2015.
- McKinney A, Smith E*, Wright BM, Phillippe HM. **Andrus MR**. Attitudes of medical residents toward pharmacist-physician collaboration. ASHP Midyear Clinical Meeting; New Orleans, Louisiana; December 2015.
- Bowerman KE*, Tigue BP*, Phillippe HM, Wright BM, **Andrus MR**. Appropriateness of novel oral anticoagulants and warfarin therapy at two university affiliated outpatient clinics. ASHP Midyear Clinical Meeting; Anaheim, California; December 2014.
- Coleman J*, Wright B, **Andrus MR**, Phillippe HM. Patient perception of pharmacist involvement in direct care in university affiliated outpatient clinics. ASHP Midyear Clinical Meeting; Orlando, Florida; December 2013.
- Germain K*, Forrester J*, Eiland LS, **Andrus MR**. Accuracy of formularies in an electronic health record and Epocrates mobile application for Blue Cross and Blue Shield and Medicaid patients. ASHP Midyear Clinical Meeting; Orlando, Florida; December 2013.
- Pelham S*, **Andrus MR**. Adherence to the 2010 Global Initiative for Chronic Obstructive Lung Disease (GOLD) Guidelines in a Family Medicine Center. ASHP Midyear Clinical Meeting; New Orleans, Louisiana; December 2011.
- Williams J*, **Andrus MR**. Benefits of pharmacists initiated medication reconciliation in the outpatient setting. ASHP Midyear Clinical Meeting; Anaheim, California; December 2010.

- Dalrymple A*, **Andrus MR**, English TM. Evaluation of smoking cessation in a primary care clinic. ASHP Midyear Clinical Meeting; Anaheim, California; December 2010.
- Clark DB*, Byrd DC, **Andrus MR**. Decreasing the costs of erythropoetic medications in a hospital-based outpatient cancer treatment center. ASHP Midyear Clinical Meeting; Orlando, Florida; December 2004

Regional/State Poster Presentations (*presenter, †student or resident contribution)

- Wright BM*, **Andrus MR**, Anderson AD†. Pharmacist medication reconciliation in an outpatient internal medicine center. AISHP Summer Meeting and Exhibit Show; Pensacola, Florida; June 2015.
- Phillippe HM, Wright BM*, **Andrus MR**, Tigue BP†, Bowerman KE†. Appropriateness of oral anticoagulants in two university affiliated outpatient clinics. Auburn University Huntsville Research Center Community Celebration; Huntsville, Alabama; April 2015.
- Schmidt S*†, Kelley KW, Hutchison A, **Andrus MR**, Armstrong EM, Carroll DG, Lee P, Phillippe HP. Student pharmacists' perceptions of working with geriatric patients before and after Advanced Pharmacy Practice Experiences. Auburn University Harrison School of Pharmacy Research Symposium; Auburn, Alabama; March 2015.
- Phillippe HM, Wright BM*, **Andrus MR**, Tigue BP†, Bowerman KE†. Preliminary results: Review of the appropriateness of apixaban, daibgatran, and rivaroxaban therapy. AISHP Summer Meeting and Exhibit Show; Pensacola, Florida; June 2014.
- Bray DR*†, Holloway KP†, **Andrus MR**, Herndon KC. Diabetes care by nurse practitioners in a rural primary care clinic. Fourth Annual Rural Health Conference; Tuscaloosa, Alabama; April 2003.
- Holloway KP*†, Bray DR†, **Andrus MR**, Herndon KC. Assessing the cardiovascular care of diabetic patients in a rural clinic setting. Fourth Annual Rural Health Conference; Tuscaloosa, Alabama; April 2003.

Presentations

National Presentations

- Carroll DG, Kelley KW, Hester EK, Lisenby KM, **Andrus MR**. Lighting Fires for Lifelong Learning: Strategies to Revitalize Your Teaching. The Teaching Professor Annual Conference; New Orleans, Louisiana; June 2019.
- Steuber TD, Wright BM, **Andrus MR**. To Journal Club or Not: Interprofessional Clinical Debates as an Alternative Method of Literature Evaluation. Mini-Session (0.5 continuing education contact hours) American Association of Colleges of Pharmacy (AACP) Annual Meeting; Boston, Massachusetts; July 2018.
- **Andrus MR**, McDonough S, Stamm PL, Kelley KW, Carroll DG. Do your Rubrics Measure Up? Assessing and Enhancing the Reliability of Rubrics in APPE (1.5 continuing education contact hours) Special Session. AACP Annual Meeting; Nashville, Tennessee; July 2017.
- **Andrus MR**, Byrd DB, McDonough S, Stamm PL, Kelley KW. Do your Rubrics Measure Up? Assessing the Validity of Rubrics in APPE (1.5 continuing education contact hours) Special Session. American Associations of Colleges of Pharmacy (AACP) Annual Meeting; Anaheim, California; July 2016.
- **Andrus MR**. A self-directed pass/fail professional seminar course in the P4 year (Roundtable discussion). AACP Annual Meeting; Anaheim, California; July 2016.

- Stamm PL, **Andrus MR**. Has the smoked cleared? Debating eCigarettes. (1.25 continuing education contact hours) American Society of Health-Systems Pharmacists Midyear Clinical Meeting; New Orleans, Louisiana; December 2015.
- **Andrus MR**. Incorporating Outpatient Medication Reconciliation in a 4th Year Primary Care APPE. Roundtable. AACP Annual Meeting; National Harbor, Maryland; July 2015.
- **Andrus MR**, Stevenson TL. How to Implement a School-Wide Clinical Intervention Documentation System. Mini-Session (0.5 continuing education contact hours); AACP Annual Meeting; Grapevine, Texas; July 2014.
- **Andrus MR**. Point-of-Care Testing in the Real World: Lipids. Roundtable Discussion Leader; American College of Clinical Pharmacy Annual Meeting; San Francisco, California; October 2005.
- **Andrus MR**. Strategies to Improve Medication Compliance in Low Literacy Patients: Exploring the Partnership of Extension and Pharmacy. Roundtable Discussion Leader; National Priester Extension Health Conference; Orlando, Florida; May 2002.

Regional/State Presentations

- Helmer A (presenter), Slater N, Jackson C, Whitley HP, **Andrus MR**. Pharmacy student perceptions of SOAP note writing in advanced pharmacy practice experiences (APPEs). New Practitioners Research Forum. Alabama Society of Health-System Pharmacists (AISHP) Summer Meeting; Destin, Florida; June 2017.
- **Andrus MR**. Electronic cigarettes. What are the implications? (1.0 continuing education contact hours). Auburn University Harrison School of Pharmacy (AUHSOP) Summer CE program; Huntsville, Auburn, Mobile and Birmingham (video-conference), Alabama; July 2017.
- **Andrus MR**. Why activities on both clinically-focused and dispensing-focused rotations are important. (1.0 continuing education contact hours) AUHSOP Preceptor Development Program. Huntsville, Auburn, Mobile and Birmingham (video-conference), Alabama; September 2015.
- **Andrus MR**, Phillippe HM*. Pharmacotherapy for Tobacco Cessation (2.0 continuing education contact hours). AUHSOP Spring CE program; Birmingham and Auburn (video-conference), Alabama; March 2014.
- Wright B, **Andrus MR**, Donaldson AR, Ray J. Establishing Clinical Pharmacy Services. Panel discussion for student session. AISHP Summer Meeting and Exhibit Show; Destin, Florida; June 2013
- **Andrus MR**. Hypertension in the Elderly (1.0 continuing education contact hours). AISHP Winter Meeting; Birmingham, Alabama; December 2012.
- **Andrus MR**. Health Literacy. AUSHOP Summer Resort Continuing Education Program (1.0 continuing education contact hours):
Gulf Shores, Alabama; August 10, 2003
Huntsville, Alabama; July 20, 2003
- **Andrus MR**. Smoking Cessation and Your Patient. AUHSOP Summer Resort Continuing Education Program (1.0 continuing education contact hours):
Health Care Video Series at various locations; Fall 2003 and Spring 2004
Gulf Shores, Alabama; August 11, 2003
Huntsville, Alabama; July 19, 2003
- **Andrus MR**. Ambulatory Care Practice Spotlight. New Practitioner Leadership Development Conference; AISHP; Montgomery, Alabama; April 13, 2002.
- **Andrus MR**. Removing Communication Barriers: A Focus on Low Health Literacy. American Pharmaceutical Association - Academy of Students of Pharmacy, Midyear Regional Meeting; Birmingham, Alabama; November 9, 2001.

Local Presentations

- **Lecturer for Pharmacology Co-Enrolled Elective for Medical Students (06-423H), University of Alabama at Birmingham School of Medicine – Huntsville Regional Medical Campus**
Dyslipidemia: 2018, 2019
- **Lecturer for Required Didactic Curriculum for Family Medicine Residents, University of Alabama at Birmingham School of Medicine – Huntsville Regional Medical Campus**
Insulin workshop: 2019, 2017, 2016, 2015, 2013, 2008, 2006
Guideline updates: diabetes and hypertension: 2018
Evaluating the medical literature: 2017
Pharmacotherapy for tobacco abuse: 2018, 2015, 2014, 2009, 2006
Pharmacotherapy for COPD: 2015
Hypertension guidelines and pharmacotherapy: 2014, 2007, 2005
Dyslipidemia guidelines and pharmacotherapy: 2010, 2005
Current asthma guidelines: 2010
Herbal medications: 2006
Diabetes update: 2005
- **Lecturer for Dean’s Conference for 3rd year Medical Students, University of Alabama at Birmingham School of Medicine – Huntsville Regional Medical Campus**
Pharmacotherapy for Smoking Cessation: yearly, 2010 – present
Insulin Workshop: yearly, 2009 - 2011
Dyslipidemia Review: 2010
- Diabetes Medications: What You Need to Know when Caring for Patients. Huntsville Hospital Sweet Home Alabama Diabetes Conference, Huntsville, Alabama; November 2016.
- Stamm PL, **Andrus MR**. Electronic cigarettes. AUHSOP Professional Seminar Series. Auburn and Mobile (video-conference), Alabama; February 2016.
- Stamm PL, **Andrus MR**. Electronic Cigarettes – What are Implications? University of Alabama at Birmingham School of Medicine – Huntsville Regional Medical Campus. Grand Rounds Presentation. Huntsville, AL; March 2016.
- Treatment of Tobacco Abuse and Dependence. Huntsville Hospital pharmacy-run smoking cessation clinic pharmacists and students. Huntsville, Alabama; September 2012.
- Ambulatory Care Review for BCPS exam. Huntsville Hospital clinical pharmacy staff development. Huntsville, Alabama, June 2012.
- How to develop a poster for presentation at a local, state, or national meeting. AUHSOP Student College of Clinical Pharmacy. Auburn, Alabama; February 2012
- Ambulatory Care Pharmacy Practice. AUHSOP Student Society of Health-System Pharmacy; Auburn, Alabama; February 2010.
- Introduction to the American College of Clinical Pharmacy. AUHSOP; Auburn, Alabama, March 2010.
- Overview of Primary Care Rotations. AUHSOP, American College of Clinical Pharmacy Student Members; Auburn, Alabama; April 2010.
- Eiland LS, Andrus MR. Involving Students and Residents in Scholarship.” Huntsville Hospital Pharmacy Department Staff Development; Huntsville, Alabama; April 2009.
- Managing Your Medications. The Academy for Lifetime Learning, University of Alabama in Huntsville Aging and Health Course; Huntsville, Alabama; February 2005.
- Dyslipidemia Update. University of Alabama at Birmingham School of Medicine - Huntsville Regional Medical Campus; Grand Rounds Series; Huntsville, Alabama; December 2004.

- Successfully Navigating the Health Care System: You and Your Pharmacist. Alabama Cooperative Extension System Training Workshop; Auburn, Alabama; February 2004.
- Successfully Navigating the Health Care System: The Role of Health Literacy. Alabama Cooperative Extension System Training Workshop; Birmingham, Alabama; May 2003.
- Pharmacy Training in Rural Alabama. Society of Public Health Education Conference; Tuscaloosa, Alabama; April 2003.
- Communicating with Patients with Low Health Literacy. Mini-conference on Health Literacy; Institute for Rural Health Research; Tuscaloosa, Alabama; February 2003.
- **Lecturer for Pharmacotherapy Curriculum Required for Family Medicine Resident Interns, University of Alabama College of Community Health Sciences, Tuscaloosa, Alabama**
What's at the Drugstore: October 2001
Drug Therapy for Hypertension: August 2001
- Pharmacy Issues. Roundtable discussion leader. Second Annual Rural Health Conference; Tuscaloosa, Alabama; April 26, 2001.

Invited Reviewer

- Abstract Reviewer, 2018 American College of Clinical Pharmacy (ACCP) Annual Meeting
- Abstract Reviewer, 2017 ACCP Annual Meeting
- Abstract Reviewer, 2017 American Association of Colleges of Pharmacy (AACP) Annual Meeting
- Abstract Reviewer, 2017 ACCP Virtual Poster Symposium
- Currents in Pharmacy Teaching and Learning; November 2016 - present
- Pharmacy Practice; November 2014 - present
- Ambulatory Care Self-Assessment Program (ACSAP); Reviewer for "Diabetes-Related Complications" chapter in ACSAP 2014 Book 1: Endocrinology/Rheumatology; published January 2014
- Journal of Pharmacy Practice; December 2011 - present
- Research in Social and Administrative pharmacy; December 2010 - present
- Southern Medical Journal; February 2010 - present
- Journal of Health Care for the Poor and Underserved; June 2008 - present
- The Journal of the American Pharmacist Association; May 2007 - present
- American Journal of Health-System Pharmacy; May 2007 - present
- Pharmacotherapy; August 2006 - present
- The Journal of Adolescent Health; March 2004 - present
- American Journal of Pharmaceutical Education; January 2004 - present
- The Journal of Pharmacy Technology; June 2003 - present
- Annals of Pharmacotherapy; August 2000 – present

OUTREACH ACTIVITIES

Clinical Pharmacy Practice

- University of Alabama at Birmingham School of Medicine - Huntsville Regional Medical Campus, Family Medicine Center; Huntsville, Alabama; May 2004 - present
Pharmacotherapy Clinic (Diabetes, Hypertension, Dyslipidemia, Smoking Cessation, Asthma, Anticoagulation, Adherence/Polypharmacy, Pharmacoeconomic Medication Review)
Medication Reconciliation Service
Pharmacotherapy Consult Service

- Capstone Rural Health Center; Parrish, Alabama; June 2001 - April 2004
Dyslipidemia Clinic
Anticoagulation Clinic
Smoking Cessation Clinic
- Capstone Medical Center; Tuscaloosa, Alabama; May 2002 - April 2004
Pharmacotherapy Consult Service in Family Medicine Clinics
- West Alabama Family Care and Obstetrics; Aliceville, Alabama; January 2001 - April 2002
Pharmacotherapy Consult Service
- Hale County Family Resource Center Mobile Health Clinic; Greensboro, Alabama; August 2000 - August 2001
Medication Assistance Program
Hypertension Clinic
Dyslipidemia Clinic

Selected Community Outreach Activities

- Faculty mentor; HSOP Student College of Clinical Pharmacy Mentor/Shadowing Program. Huntsville, Alabama; 2012 - present
- Job Shadowing for Pre-Pharmacy Students. Huntsville, Alabama; 2004 - present
- Job Shadowing for The University of Alabama at Birmingham Summer Pre-Medical Internship Program; Huntsville, Alabama; 2007 – present
- Disaster Medical Relief for Hurricane Katrina Evacuees. Organization and distribution of donated medications and medical supplies. The University of Alabama at Birmingham - Huntsville Regional Medical Campus Family Medicine Center; Huntsville, Alabama; September 2005
- Medication Brown Bag Day. The University of Alabama at Birmingham - Huntsville Regional Medical Campus Family Medicine Center; Huntsville, Alabama; April 2005
- Attacking Allergies and Asthma. Fall 2002 Super Special Saturday Continuing Education for Child Care Workers; Tuscaloosa, Alabama; September 2002

SERVICE ACTIVITIES

Auburn University Harrison School of Pharmacy

- Learning Community 6 (Development of P3 Spring Curriculum); 2018 - present Professional Education Committee
Steering committee; 2018
Co-curricular Workgroup; 2017 - 2018
Chair; 2018
Co-chair; 2017
Sub-committee III; 2010 - 2012; 2017
Sub-committee II; 2005 - 2009
Experiential Learning Council; 2003 - 2005
- Student College of Clinical Pharmacy Student Advisor; 2011 - present
Founding Advisor; 2011
- Pharmacy Practice Promotion and Tenure Committee, 2005 - present
- Faculty Awards Committee; 2016
Chair; 2016
- Student Honors, Awards and Scholarship Committee; 2013 - 2015
Chair; 2013 - 2015

- Office of Teaching Learning and Assessment Advisory Committee; 2009 - 2011
- Christian Pharmacy Fellowship International Student Advisor; 2003 - 2011
Founding Advisor, 2003
- Clinical Software Committee; 2008 - 2010
Chair; 2009 - 2010
- Ad Hoc Committee on Utilization of Intervention Program; 2005 - 2008
Chair; 2005 - 2008
- Diversity Council; 2002 - 2004
- Faculty and Student Honors, Awards and Scholarship Committee; 2001 - 2005
Co-Chair, 2004 - 2005
Chair, 2002 - 2003
- Ad Hoc Committee on New Faculty Development; March 2002 - June 2002
- Postgraduate Education Committee; 2001 - 2003
- Office of Information Technology Advisory Group; 2000 - 2002

University of Alabama at Birmingham School of Medicine - Huntsville Regional Medical Campus,
Department of Family Medicine

- Residency Oversight Committee; 2004 - present
- Coordinator, Employee Smoking Cessation Program, 2013 - 2014

University of Alabama College of Community Health Sciences

- Co-Chair, Development of Health Literacy Awareness; 2002 - 2004
- Interviewer, Class of 2004 Rural Medical Scholars; 2003
- University of Alabama Clinical Trial Panel; 2002 - 2003
- Co-Chair, Rural Health Conference Poster Session; 2003 - 2004

Extension/Pharmacy Alliance for Community Health (EPACH)

- Member; 2001 - 2003
- Co-chair, Health Literacy Committee; 2002 – 2003

DCH Regional Medical Center

- Residency Advisory Group; 2000 - 2004

Rural Alabama Area Health Education Center

- Interdisciplinary Education Coordinator; 2000 - 2002

American College of Clinical Pharmacy; 1999 - present

- Full membership granted; 2003
- Fellow status awarded; 2009
- Elected Treasurer and member of Board of Regents; 2018 - 2021
- Leadership and Management Certificate Program; completed 2017
- Education and Training Practice and Research Network; 2002 - present
Member, StuNet Support Committee; April 2010 - 2013
Chair; 2006 - 2007
Chair-elect; 2005 - 2006
Co-chair, Task Force on Mentoring; October 2002 - 2003
- Ambulatory Care Practice and Research Network; 1999 - present

- Endocrine and Metabolism Practice and Research Network; 2013 - 2017
- College of Pharmacy Liaison; 2006 - present
- 2017 ACCP Awards Committee; 2016 - 2017
- Nominations Committee; 2014 - 2016
 - Chair; 2015 -2016
 - Vice-chair; 2014 - 2015
- Credentials: FCCP Committee; 2011 - 2014
 - Chair; 2012 - 2014
- Certification Affairs Committee; 2009 - 2011
 - Chair; 2010 - 2011
 - Vice-chair; 2009 - 2010
- Research Affairs Committee; 2008 - 2009
 - Chair; 2008 - 2009
- 2008 Annual Meeting Program Committee; 2006 - 2008
- Teaching and Learning Academy Steering Committee; 2006 - 2007
- Membership Committee; 2003 - 2006
- Clinical Pharmacy Challenge Item-Author Panel; 2010 - 2011
- Volunteer Reviewer, Student Travel Award Applications; 2009 - 2014
- Volunteer Faculty Reviewer, Online Curriculum Vitae Review Service; 2007 - 2014

American Association of Colleges of Pharmacy; 2000 - 2005; 2011 - present

- Sections of Teachers of Pharmacy Practice Program Committee Member; 2004 - 2005
- Delegate for AUHSOP; 2005
- Alternate Delegate for AUHSOP, 2004

Board of Pharmaceutical Specialties

- Exam Question Item Writer; 2003 - 2004

Rho Chi Society (The Academic Honor Society in Pharmacy); 1997 - present