CURRICULUM VITAE

PERSONAL INFORMATION

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EDUCATION

M.P.H. Department of Health Policy and Administration
School of Public Health
University of North Carolina at Chapel Hill
May 1990

Fellowship Department of Family Medicine
School of Medicine
University of North Carolina at Chapel Hill
1986-1987

Pharm.D. Doctor of Pharmacy
University of Florida
August 1979

B.S. Pharmacy
University of Florida
March 1977

B.S. Chemistry
University of Florida
March 1974

PROFESSIONAL EXPERIENCE

Professor, Eshelman School of Pharmacy, and
Adjunct Professor, Division of General Medicine and Clinical Epidemiology,
Department of Medicine, School of Medicine
University of North Carolina at Chapel Hill
July 2012 - present

Professor, Eshelman School of Pharmacy, and
Adjunct Associate Professor, Division of General Medicine and Clinical Epidemiology,
Department of Medicine, School of Medicine
University of North Carolina at Chapel Hill
March 2010 – June 2012

Associate Professor, Eshelman School of Pharmacy, and
Adjunct Associate Professor, Division of General Medicine and Clinical Epidemiology,
Department of Medicine, School of Medicine
University of North Carolina at Chapel Hill
May 2004 – March 2010

Associate Professor, School of Pharmacy, and
Clinical Associate Professor, Department of Family Medicine, School of Medicine
University of North Carolina at Chapel Hill
May 1991 – May 2004

Assistant Professor, School of Pharmacy, and
Clinical Assistant Professor, Department of Family Medicine, School of Medicine
University of North Carolina at Chapel Hill
March 1987 – May 1991

Clinical Assistant Professor, School of Pharmacy, and
Clinical Assistant Professor, Department of Family Medicine, School of Medicine
University of North Carolina at Chapel Hill
January 1982 - March 1987

Clinical Assistant Professor, School of Pharmacy
University of North Carolina at Chapel Hill
May 1981 – March 1987

Assistant Professor of Pharmacy
Department of Pharmacy Practice and Administration, College of Pharmacy
Medical University of South Carolina
May 1980 – May 1981

Clinical Instructor
Department of Pharmacy Practice, College of Pharmacy
University of Utah
September 1979 – May 1980

Graduate Teaching Assistant
Department of Pharmacy Practice, College of Pharmacy

University of Florida
September 1977 – August 1979

Certification/Licensure

Licensure in Pharmacy: Florida (# 15998, 1977), Alabama (# 9402, 1979), and North Carolina (# 7704, 1981).

Member, Clinical Housestaff, University of North Carolina Hospitals (1987 - present).

Certified Diabetes Educator, by examination of the National Certification Board of Diabetes Educators (1987); Re-certified, by examination (1992, 1998).

Board Certified in Pharmacotherapy, by examination of the Board of Pharmaceutical Specialties (1991). Re-certified, (1998, 2007).

Clinical Pharmacist Practitioner (CPP; # 700063), State of North Carolina

Practitioner licensure, US Drug Enforcement Administration, April 2004.

Certificate, Medication Therapy Management, APhA/ASCP, Charlotte, NC, 2007.

HONORS

Florida Blue Key Honorary Leadership Society, 1976
Omicron Delta Kappa National Honorary Society, 1976
Rho Chi Pharmaceutical Honorary Society, 1983
Golden Apple Award (Teacher of the Year), Department of Family Medicine, UNC-CH, 1983
Phi Lambda Sigma Pharmacy Leadership Society, 1985
David S. Citron Award (Statewide Award for Scholarship and Teaching), Department of Family Medicine, UNC-CH, 1988
North Carolina Society of Hospital Pharmacists Continuing Excellence Award: 1989, 1991-94
Fellow, American Society of Hospital Pharmacists, 1993
Fellow, American College of Clinical Pharmacy, 1995
United States Public Health Service Primary Care Policy Fellowship, 2000
Co-Preceptor of the Year, UNC School of Pharmacy/UNCH Department of Pharmacy, 2004
Distinguished Practitioner in Pharmacy, National Academies of Practice, 2008
NCAP Innovative Pharmacy Practice Award, 2009

BIBLIOGRAPHY

Books and Book Chapters

1. Chapter: Ives TJ and Anastasio GD. Considerations in Ambulatory Drug Therapy. In: **Family Medicine: A Study Guide for Medical Students in the Clinical Years.** 1988, Williams and Wilkins.

2. Chapter: Newton WP and Ives TJ. Office Management of Hypertension. In: **Family Medicine: A Study Guide for Medical Students in the Clinical Years.** 1988, Williams and Wilkins.

3. Chapter: Ives TJ. Medications for Sports Injuries. In: **Sports Medicine: For Coaches and Trainers.** 1988, University of North Carolina Press.

4. Chapter: Ives TJ. Medications for Sports Injuries. In: **Sports Medicine: For Coaches and Trainers, Second Edition.** 1991, University of North Carolina Press.

5. Chapter: Ives TJ. Prescription Drug Abuse and the Chemically Dependent Patient. In: **Addictive Disorders: A Practical Guide to Treatment.** 1992, Mosby Year Book Medical Publishers, Inc.

6. Chapter: Ives TJ. Pharmacotherapeutics. In: **Primary Care Geriatrics: A Case-Based Learning Program,** Second Edition. 1992, Mosby Year Book Medical Publishers, Inc.

7. Chapter: Ives TJ and Anastasio GD. Ambulatory Pharmacotherapy. In: **Essentials of Family Medicine, Second Edition.** 1993, Williams and Wilkins.

8. Chapter: Newton WP and Ives TJ. Hypertension. In: **Essentials of Family Medicine, Second Edition.** 1993, Williams and Wilkins.

9. Chapter: Weir SG, Ives TJ and Dunn PF. Diabetes Mellitus. In: **Essentials of Family Medicine, Second Edition.** 1993, Williams and Wilkins.

10. Chapter: Ives TJ. Nonsteroidal Antiinflammatory Agents. In: **Sports Medicine for Primary Care.** 1995, Blackwell Scientific Publications, London.

11. Chapter: Ives TJ. Pharmacotherapeutics. In: **Primary Care Geriatrics: A Case-Based Learning Program**, Third Edition. 1996, Mosby Year Book Medical Publishers, Inc.

12. Chapter: Ives TJ, Canaday BR and Yarborough PC. Documentation of Pharmacist Interventions. In: **Pharmacotherapy: A Patient-Focused Approach.** 1996, Appleton & Lange.

13. Chapter: Ives TJ. Dermatologic Pharmacotherapy. In: **Practical Dermatology, Second Edition.** 1997, Mosby Year Book Medical Publishers, Inc.

14. Chapter: Newton WP and Ives TJ. Hypertension. In: **Essentials of Family Medicine, Third Edition.** 1998, Williams and Wilkins.

15. Chapter: Weir SG and Ives TJ. Diabetes Mellitus. In: **Essentials of Family Medicine, Third Edition.** 1998, Williams and Wilkins.

16. Chapter: Sloane PD, Curtis P, Ebell M, Fisher M, Ives TJ and Slatt L. Common Problems: Overview and General Approach. In: **Essentials of Family Medicine, Third Edition.** 1998, Williams and Wilkins.

17. Chapter: Ives TJ, Canaday BR and Yarborough PC. Documentation of Pharmacist Interventions. In: **Pharmacotherapy: A Patient-Focused Approach, Second Edition.** 1998, Appleton & Lange.

18. Chapter: Ives TJ. Primary Prevention. In: **Pharmacotherapy Self-Assessment Program, Third Edition**. 1999, American College of Clinical Pharmacy.

19. Chapter: Ives TJ, Paavola FG, and Der Marderosian AH. Pharmacists and Public Health. In: **Remington's Pharmaceutical Sciences, 20th Edition**. 2001, Williams & Wilkins.

20. Chapter: Ives TJ. Photosensitivity and Burns. In: **Applied Therapeutics, Seventh Edition**. 2001, Lippincott, Williams & Wilkins.

21. Chapter: Ives TJ. Pharmacotherapeutics. In: **Primary Care Geriatrics: A Case-Based Learning Program**, Fourth Edition. 2001, Mosby, Inc.

22. Chapter: Ives TJ, Canaday BR and Yarborough PC. Documentation of Pharmacist Interventions. In: **Pharmacotherapy: A Patient-Focused Approach, Third Edition.** 2002, McGraw-Hill.

23. Chapter: Ives TJ. Photosensitivity and Burns. In: **Handbook of Applied Therapeutics**. 2002, Lippincott, Williams & Wilkins.

24. Chapter: Newton WP and Ives TJ. Hypertension. In: **Essentials of Family Medicine, Third Edition.** 2002, Lippincott, Williams and Wilkins.

25. Chapter: Mintzer M, Sloane PD, and Ives TJ. Pregnancy Prevention and Contraception. In: **Essentials of Family Medicine, Third Edition.** 2002, Lippincott, Williams and Wilkins.

26. Chapter: Ives TJ. Photosensitivity and Burns. In: **Applied Therapeutics, Eighth Edition**. 2004, Lippincott, Williams & Wilkins.

27. Chapter: Ives TJ and Der Marderosian AH. Pharmacists and Public Health. In: **Remington's Pharmaceutical Sciences, 21st Edition**. 2005, Lippincott, Williams & Wilkins.

28. Chapter: Canaday BR, Yarborough PC and Ives TJ. Documentation of Pharmacist Interventions. In: **Pharmacotherapy: A Patient-Focused Approach, Sixth Edition.** 2005, McGraw-Hill.

29. Chapter: Hanlon JT, Guay DRP, and Ives TJ. Oral Analgesics: Efficacy, Mechanism of Action, Pharmacokinetics, Adverse Effects, Drug Interactions and Practical Recommendations for Use in Older Adults. In: **Pain in the Elderly**. 2005, IASP Press.

30. Chapter: Canaday BR, Yarborough PC, Malone RM, and Ives TJ. Documentation of Pharmacist Interventions. In: **Pharmacotherapy: A Patient-Focused Approach, Seventh Edition.** 2007, McGraw-Hill.

31. Chapter: Ives TJ. Photosensitivity and Burns. In: **Applied Therapeutics, Ninth Edition.** 2008, Lippincott, Williams & Wilkins.

32. Chapter: Ives TJ, Kiser KL. Psoriasis. In: **Applied Therapeutics, Ninth Edition**. 2008, Lippincott, Williams & Wilkins.

33. Chapter: Gerrald KR, Ives TJ. Ultraviolet Radiation Exposure, Photoaging, and Minor Burns. In: **Applied Therapeutics, Tenth Edition.** 2011, Lippincott, Williams & Wilkins.

34. Chapter: Kiser KL, Ives TJ. Psoriasis. In: **Applied Therapeutics, Tenth Edition**. 2011, Lippincott, Williams & Wilkins.

35. Chapter: Ives TJ and Conry JM. Pharmacists and Public Health. In: **Remington: The Science and Practice of Pharmacy**, 22nd Edition. 2012, Pharmaceutical Press, London. Online updates in 2013 and 2014.

Refereed Journals

1. Ives TJ, Pevonka MP, Andresen BD, and Yost RL. Effect of methyldopa on urine glucose test methods. **Am J Hosp Pharm.** 1980; 37: 683-7.

2. Ives TJ and Heath R. Letter: Amitriptyline-induced tonic-clonic seizures in the mentally retarded. **Drug Intell Clin Pharm.** 1980; 14: 378.

3. Ives TJ. Illicit use of diphenoxylate hydrochloride to prevent narcotic withdrawal symptoms. **Drug Intell Clin Pharm.** 1980; 14: 715-6.

4. Ives TJ and Stewart RB. Doxepin-induced acute glossitis. **Am J Hosp Pharm.** 1980; 37: 1551-2.

5. Ives TJ. Letter: Doctor of Pharmacy degrees. **Am Fam Phys.** 1981; 24: 25-8.

6. Huff PS, Ives TJ, Almond SN and Griffin NW. Pharmacist-managed diabetes education service. **Am J Hosp Pharm.** 1983; 40: 991-4.

7. Ives TJ. Use of dimenhydrinate hydrochloride in the treatment of green tobacco sickness. **Drug Intell Clin Pharm.** 1983; 17: 548-9.

8. Ives TJ and Stults CC. Short-course diphenoxylate hydrochloride for treatment of methadone withdrawal symptoms. **Brit J Psychiatry.** 1983; 143: 513-4.

9. Guerra MF and Ives TJ. Bethanechol-induced hypothermia. **Ann Intern Med.** 1983; 99: 279-80.

10. Ives TJ. Human insulin. **U.S. Pharm.** 1984; 9: 49-58.

11. Ives TJ, Parry JL and Gwyther RE. Serum drug level utilization review in a family medicine residency program. **J Fam Pract.** 1984; 19: 507-12.

12. Ives TJ, Fleming MF, Weart CW and Bloch D. Treatment of intractable hiccups with intramuscular haloperidol. **Am J Psychiatry.** 1985; 142: 1368-9.

13. Patterson JH, Ives TJ and Greganti MA. Transient bilateral pupillary dilation from scopolamine discs. **Drug Intell Clin Pharm.** 1986; 20: 986-7.

14. Ives TJ, Frey JJ, Furr SJ and Bentz EJ. Effect of an educational intervention on oral cephalosporin use in primary care. **Arch Intern Med.** 1987; 147: 44-7.

15. Ives TJ, Bentz EJ and Gwyther RE. Drug-related admissions to a family medicine inpatient service. **Arch Intern Med.** 1987; 147: 1117-20.

16. Lownes HE and Ives TJ. Mexiletine use in pregnancy and lactation. **Am J Obstet Gynecol.** 1987; 157: 446-7.

17. Ives TJ and Guerra MF. Constant morphine infusion for sickle cell crisis pain. **Drug Intell Clin Pharm.** 1987; 21: 625-7.

18. Baldwin JN, Bennett RW, Ives TJ, Miederhoff PA and Tommasello AC. American Association of Colleges of Pharmacy guidelines for the development of chemical impairment policies for colleges of pharmacy. **Am J Pharm Educ.** 1988; 52: 298-304.

19. Ives TJ. University of North Carolina School of Pharmacy addiction assistance and education programs. **Carolina J Pharm.** 1989; 69: 11-2. (Non-refereed)

20. Ives TJ. Different effects of glyburide and glipizide on insulin secretion and hepatic glucose production in normal and NIDDM subjects. **Diabetes Spectrum.** 1989; 2: 304-5.

21. Ives TJ and Stults CC. Pharmacy practice in a chemical-dependency treatment center. **Am J Hosp Pharm.** 1990; 47: 1080-3.

22. Ives TJ, Dunn PF and Pathman DE. The nutritional content of pharmaceutical company promotions. **Family Med.** 1990; 22: 338-9.

23. Ives TJ and Tepper RS. Drugs in pregnancy and lactation. **Primary Care.** 1990; 17: 623-45.

24. Ives TJ, Mooney AJ and Gwyther RE. Phenobarbital in the treatment of the alcohol withdrawal syndrome. **South Med J.** 1991; 84: 18-21.

25. Ives TJ. Letter. Treatment of alcohol withdrawal. **South Med J.** 1991; 84: 935-6.

26. Ives TJ and Tepper RS. Failure of a tapering dose of oral methylprednisolone to treat reactions to poison ivy. **JAMA.** 1991; 266: 1362.

27. Ives TJ. Professional development and clinical specialization in chemical dependency pharmacy practice. **J Pharm Pract.** 1991; 4: 380-5.

28. Baldwin JN, Light KE, Stock C, Ives TJ, Crabtree BL, Miederhoff PA, Tommasello T and Levine PJ. Suggested curricular guidelines for pharmacy education: Substance abuse and addictive disease. **Am J Pharm Educ.** 1991; 55: 311-6.

29. Ives TJ. Benzoyl peroxide. **Am Pharm**. 1992; NS32: 637-42.

30. Ives TJ, Bentz EJ and Gwyther RE. Dermatologic adverse drug reactions in a family practice center. **Arch Fam Med**. 1992; 1: 241-5.

31. Rose LA, DeVellis BM and Ives TJ. Prescription medicines. **N Carolina Med J**. 1992; 53: 589-92.

32. Walker EA and Ives TJ. Pharmacy in evolution. **Diabetes Spectrum.** 1993; 6: 156.

33. Ives TJ and Goldstein AO. Letter: Tobacco and drug use. **J Fam Pract.** 1994; 39: 11.

34. Tepper RS, Ives TJ and Kebede M. Recurrent bacterial vaginosis unresponsive to metronidazole: successful treatment with clindamycin. **J Am Board Fam Pract**. 1994; 7: 431-2.

35. Goldstein AO and Ives TJ. Letter: Depression treatment. **J Fam Pract.** 1994; 39: 114-6.

36. Ives TJ, Lockamy AF, McDermott JH and Brooks VG. Expanding pharmacy roles in programs on alcohol and other drug abuse. **Am Pharm**. 1994; NS34: 52-7.

37. Linn W, Carter BL, Ellsworth A, Ives TJ, Carlisle B, Maddux S and Tabor P. ACCP White Paper: Guidelines for establishing and evaluating clinical pharmacy services in primary care. **Pharmacotherapy**. 1994; 14: 743-58.

38. Goldstein AO and Ives TJ. Letter: Pharmacoeconomic considerations in pharmaceutical company promotions. **Arch Fam Med**. 1994; 3: 1034-5.

39. Goldstein AO and Ives TJ. Letter: OTC nicotine gum. **J Fam Pract.** 1995; 40: 15-7.

40. Sloane PD and Ives TJ. Editorial: Improving the well-being of nursing home residents. **J Am Board Fam Pract.** 1995; 8: 249-50.

41. Ives TJ and Goldstein AO. Letter: Pharmacotherapeutic comparisons found in pharmaceutical company promotions. **Arch Fam Med**. 1995; 4: 674-5.

42. Ives TJ, Manzewitsch P, Regnery RL, Butts JD and Kebede M. In vitro susceptibilities *of Bartonella henselae, B. quintana, B. elizabethae, Rickettsia rickettsii, R. conorii, R. akari*, and *R. prowazekii* to macrolide antibiotics as determined by immunofluorescent-antibody analysis of infected vero cell monolayers. **Antimicrob Agents Chemother**. 1997; 41: 578-82.

43. Ives TJ and Dunn PF. Update in the pharmacotherapies of diabetes mellitus. **Primary Care Practice.** 1997; 1: 537-49.

44. Sobel RA, Goldstein AO and Ives TJ. Impact of smoking control rules on restaurants in Orange county, North Carolina. **N. Carolina Med J**. 1998; 59: 288.

45. Ives TJ, Deloatch KD and Ishaq K. Implementation of an integrated, case-based, student-centered approach to learning in required courses in medicinal chemistry/pharmacotherapeutics. **Am J Pharm Educ.** 1998; 62: 406-11.

46. Capoccia KL, Goldstein AO, and Ives TJ. Smoking cessation. It's the right time. **NC Med J**. 2000; 61: 403-5.

47. Ives TJ, Marston EF, Regnery RL, Butts JD, Majerus TC. *In vitro* susceptibilities of *Rickettsia* and *Bartonella* spp. to 14-hydroxy-clarithromycin as determined by immunofluorescent antibody analysis of infected Vero cell monolayers. **J Antimicrob Chemother**. 2000; 45: 305-10.

48. Goldstein AO, Smith KM, Ives TJ, Goldstein B. Mycotic infections: Effective management of conditions involving the skin, hair, and nails. **Geriatrics.** 2000; 55: 40-52.

49. Ives TJ, Butts JD, Regnery RL, and Majerus TC. Use of immunofluorescent antibody analysis of infected vero cell monolayers to determine in vitro susceptibilities of *Bartonella elizabethae, B. henselae* and *B. quintana*. **J Infect Dis Pharmacother.** 2001; 4: 9-19.

50. Ives TJ, Marston EF, Regnery RL and Butts JD. *In vitro* susceptibilities of *Bartonella* and *Rickettsia* spp. to fluoroquinolone agents as determined by immunofluorescent antibody analysis of infected Vero cell monolayers. **Int J Antimicrob Agents**. 2001; 18: 217-22.

51. Ives TJ, Schwab UE, Ward ES and Hall H. Disposition and activity of clarithromycin in human THP-1 monocytes during stimulated and unstimulated conditions. **Research Comm Molecular Pathol Pharmacol.** 2001; 110: 191-216.

52. Chetwynd EM, Ives TJ, Payne PM, Edens-Bartholomew N. Fluconazole for post-partum candidal mastitis and infant thrush. **J Human Lact.** 2002; 18: 168-71.

53. Sloane PD, Zimmerman SI, Colemon LE, Ives TJ and Walsh JF. Inappropriate medication prescribing in residential care/assisted living facilities. **J Amer Geriatr Soc**. 2002; 50: 1001-11.

54. Hall IH, Schwab UE, Ward ES, Butts JD, Wolford ET, and Ives TJ. Disposition and activity of azithromycin in human THP-1 monocytes during stimulated and unstimulated conditions. **Int J Antimicrob Agents**. 2002; 20: 348-60.

55. Ives TJ, Schwab UE, Ward ES and Hall IH. In vitro anti-inflammatory and immunomodulatory effects of grepafloxacin in zymogen A- or *Staphylococcus aureus*-stimulated human THP-1 monocytes. **J Infect Chemother**. 2003; 9:134-43.

56. Cooper JB, Brock TP, and Ives TJ. Assessment of the spiritual aspect of patient care as addressed in the curricula of colleges of pharmacy. **Am J Pharm Educ.** 2003; 67: 1-11.

57. Hall IH, Schwab UE, Ward ES and Ives TJ. Effects of moxifloxacin in zymogen A or *S. aureus* stimulated human THP-1 acute monocytes on the inflammatory process and the spread of infection. **Life Sciences.** 2003; 73: 2675-85.

58. Malone RM, DeWalt DA, Pignone MP, Ives TJ. Letter. Fluid retention after initiation of thiazolidinedione therapy in diabetic patients with established chronic heart failure. **J Am Coll Cardiol.** 2003; 42: 1334.

59. Leslie SW, Beck DE, Ives TJ, Skau KA, Thompson DF, Ueda CT and Wincor MZ. Final Report of the 2002-2003 Bylaws and Policy Development Committee**. Am J Pharm Educ.** 2003; 67 (Suppl): S4-11.

60. Hall IH, Schwab UE, Ward ES and Ives TJ. Effects of alatrofloxacin, the parenteral prodrug of trovafloxacin, on human THP-1 acute monocytes on phagocytic anti-inflammatory and immunomodulation events. **Biomed Pharmacother.** 2003; 57: 359-65.

61. Hall IH, Schwab UE, Ward ES and Ives TJ. Disposition and intracellular levels of moxifloxacin in human THP-1 acute monocytes in unstimulated and stimulated conditions. **Int J Antimicrob Agents**. 2003; 22: 579-87.

62. Hall IH, Schwab UE, Ward ES, Rublein JC, Butts JD, and Ives TJ. Human THP-1 monocyte uptake and cellular disposition of ^{14}C-grepafloxacin. **J Infect Chemother**. 2004; 10: 11-18.

63. Hall IH, Schwab UE, Ward ES and Ives TJ. *In vitro* anti-inflammatory effects and immunomodulation by gemifloxacin in stimulated human THP-1 monocytes. **Pharmazie.** 2004: 59: 713-9.

64. Calis KA, Hutchison LC, Elliott ME, Ives TJ, Zillich AJ, Poirier T, Townsend KA, Woodall B, Feldman S, and Raebel MA. ACCP White Paper: Healthy People 2010: Challenges, opportunities, and a call to action for America's pharmacists. **Pharmacotherapy**. 2004; 24: 1241-94.

65. Ives TJ, Carter RA, Das SK, Gross SM, Pieper JA. Final Report of the 2004-2005 Bylaws and Policy Development Committee. **Am J Pharm Educ.** 2005; 69 (Suppl): S15.

66. Chelminski PR, Ives TJ, Felix KM, Prakken SD, Miller TM, Perhac JS, Malone RM, Bryant ME, DeWalt DA, Pignone MP. A primary care, multi-disciplinary, disease management program for opioid-treated patients with chronic non-malignant pain and a high burden of psychiatric comorbidity. **BMC Health Services Research.** 2005; 5:3.

67. Ives TJ, Chelminski PR, Hammett-Stabler C, Malone RM, Perhac JS, Potisek NM, Shilliday BB, Dewalt DA, Pignone MP. Predictors of opioid misuse in patients with chronic pain, a prospective cohort study. **BMC Health Services Research.** 2006, 6:46.

68. Potisek NM, Malone RM, Bryant Shilliday B, Ives TJ, Chelminski PR, DeWalt DA, Pignone MP. Use of patient flow analysis to improve patient visit efficiency by decreasing wait time in primary care-based disease management programs for anticoagulation and chronic pain: a quality improvement study. **BMC Health Services Research.** 2007, 7:8.

69. Malone R, Shilliday BB, Ives TJ, Pignone M. Bridges to Excellence: Development and Evolution of a Primary Care-Based Diabetes Disease Management Program. **Diabetes Care**. 2007;25:31-35.

70. Onyoni EM, Ives TJ. Assessing implementation of cultural competency content in the curricula of colleges of pharmacy in the United States and Canada. **Am J Pharm Educ**. 2007;71:24.

71. Dickerson LM, Kraus CK, Kuo GM, Weber CA , Bazaldua OV, Tovar JM, Hume AL, Ives TJ, Gums JG, Carter BL. Formation of a primary care pharmacist practice-based research network. **Am J Health-Syst Pharm**. 2007;64:2044-9.

72. Subramaniam V, Calis KA, Dombrowski RC, Ives TJ, Martin LG, McIntyre C, Moore SR, Pucino, Jr. F, Quinn J, Ramalingam A, Ranelli PL. ASHP Statement on the role of health-system pharmacists in public health. **Am J Health-Syst Pharm**. 2008;65:462-7.

73. MacLaughlin EJ, Ardery G, Jackson EA, Ives TJ, Young RB, Fike DS, and Carter BL. IRB barriers and solutions encountered in the National Interdisciplinary Primary Care Practice-Based Research Network. **Pharmacotherapy**. 2013; 33: 902-911.

74. Adams AJ, Clark DR, DeLander GE, Mackinnon III GE, Malloy M, McGivney MS, Mobley C, Nuffer W, Parsons P, Smesny AL, Smith M, and Ives TJ. Report of the AACP Task Force on Patient-Centered Medical Homes and Accountable Care Organizations. **American Journal of Pharmaceutical Education**. 2013; 77 (7), Article 142.

75. Adams AJ, Clark DR, Delander GE, Nuffer W, Smith M, and Ives TJ. Viewpoint: Opportunities and responsibilities for the academy in the medical home. **American Journal of Pharmaceutical Education**. 2013; 77 (7), Article 137.

76. Hale JC, Murawski M, Ives TJ. Successes and challenges of Clinical Pharmacist Practitioners in North Carolina. **J Am Pharm Assoc**. 2013; 53: 640-3.

77. Hale JC, Murawski M, Ives TJ. Rural distribution and utilization of Clinical Pharmacist Practitioners in North Carolina. Accepted by **North Carolina Medical Journal**.

78. Lewis-Smith RE, Greene J, Chelminski PR, Ives TJ. Accuracy of a prior diagnosis of fibromyalgia in general practice. Submitted to **Spine;** 24 pages.

Book Reviews/Monographs

1. Ives TJ. Identification and treatment of skin and soft-tissue infections. Health Sciences Consortium, Chapel Hill, NC, 1984. Monograph.

2. Ives TJ. Family Medicine Curriculum Guide to Substance Abuse. **Fam Med.** 1985; 5: 68. Book Review.

3. Ives TJ. Drug Consultant 1985-86. **Drug Intell Clin Pharm.** 1986; 20: 315. Book Review.

4. Ives TJ and Harris TG. MedTeach. **Am J Hosp Pharm.** 1990; 47: 450-1. Software Review.

5. Ives TJ. Preventing and Controlling Drug Abuse. **J Pharm Technol.** 1991; 7: 216. Book Review.
6. American Diabetes Association Policy Statement. Insulin administration. **Diabetes Care.** 1993; 16 (Suppl 2): 31-4. Monograph.

7. Ives TJ. AIDS & Ethics. Edited by Reimer FM. **Am J Hosp Pharm**. 1994; 51: 2220-1. Book Review.

8. Ives TJ. Clinical Aspects of Diabetes Mellitus. Health Sciences Consortium, Chapel Hill, NC, 1994. Monograph.

9. Ives TJ. Pharmacotherapeutic Assessment of Selected Patients. In: Cases for Teaching Management Principles. American Association of Colleges of Pharmacy/Glaxo, 1995. Educational Software.

10. Ives TJ. One Minute Counselor. A Pharmacist's Guide to Topical Corticosteroids. APhA/ACCP. **ACCP Report.** 1996; 15 (10): 7-8. Monograph.

11. Dunn PF and Ives TJ. The Role of the Pharmacist in the Management of Diabetes Mellitus. Power-Pak Communications, Inc. Tampa, FL, 1997. Monograph.

Platform or Poster Presentations/Abstracts

1. Poster: Ives TJ. Effect of Methyldopa on Urine Glucose Test Methods (P-132). ASHP Midyear Clinical Meeting, Las Vegas, NV, December 3, 1979.

2. Poster: Huff PS, Ives TJ, Almond SN and Griffin NW. Pharmacist-Managed Diabetes Education Service (P-16). ASHP Midyear Clinical Meeting, Los Angeles, CA, December 6, 1982.

3. Poster: Ives TJ and Fleming MF. A Computerized, Duplicate Prescription Monitoring Program: An Educational Strategy in a Family Medicine Residency Program. 131st Annual Meeting, American Pharmaceutical Association, Montreal, Canada, May 8, 1984.

4. Platform Presentation: Ives TJ and Fleming MF. A Computerized, Duplicate Prescription Monitoring Program: An Educational Strategy in a Family Medicine Residency Program (PS-78). 17th Annual Spring Conference, Society of Teachers of Family Medicine, Orlando, FL, May 9, 1984.

5. Platform Presentation: Ives TJ. Acne Therapy (S-25). ASHP Annual Meeting, Boston, MA. Invited speaker for Ambulatory Care Pharmacy Practice SIG Session, Boston, MA, June 6, 1984.

6. Platform Presentation: Preparing pharmacists to provide optimal care for the diabetic patient. American Association of Colleges of Pharmacy 88th Annual Meeting, Charleston, SC, July 14, 1987, p. 53.

7. Platform Presentation: Guidelines for the development of chemical impairment policies for Colleges of Pharmacy. American Association of Colleges of Pharmacy 89th Annual Meeting, Chicago, IL, August 2, 1988, pp. 61-2.

8. Poster: Ives TJ, McDermott JH, Hughes TH and Dennis BH. 92nd Annual Meeting, American Association of Colleges of Pharmacy, Boston, MA. Invited presenter, July 9, 1991. Topic: Development of a specialty residency program in chemical dependency. **Am J Pharm Educ.** 1991; 55: 149S.

9. Poster: Teat DW and Ives TJ. 92nd Annual Meeting, American Association of Colleges of Pharmacy, Boston, MA. Invited presenter, July 9, 1991. Coordinating the care of chemically dependent pharmacy students through a statewide Pharmacist Recovery Network. **Am J Pharm Educ.** 1991; 55: 150S.

10. Poster: Berolzheimer N, Sdao-Jarvie K, Rounds J and Ives T. Does the practice of prescribing alcohol to hospitalized patients contribute to alcohol problems? National Conference of the Association for Medical Education and Research in Substance Abuse (AMERSA), Bethesda, MD, November 13, 1992.

11. Platform Presentation: Reimbursement for Cognitive Clinical Pharmacy Services (SPG-31). 27th Annual ASHP Midyear Clinical Meeting, Orlando, FL, December 9, 1992, p. 314.

12. Poster: Ives TJ, Canaday BR, Pittman AW, Williams DM and Ishaq KS. 95th Annual Meeting, American Association of Colleges of Pharmacy, Albuquerque, NM. Invited presenter, July 19, 1994. Topic: Implementation of an integrated, problem-based, student-centered approach to learning in required courses in Medicinal Chemistry/Pharmacotherapeutics.

13. Poster: Ives TJ, Regnery RL, Manzewitsch P, and Kebede M. Tenth International Conference on AIDS, Yokohama, Japan. Invited presenter, August 9, 1994, p. 141. Topic: In vitro evaluation of macrolide antibiotics against species of *Rochalimaea*.

14. Poster: Ives TJ, Regnery RL, Manzewitsch P, and Kebede M. American College of Clinical Pharmacy Winter Practice and Research Forum, Orlando, FL. Invited presenter, February 14, 1995. Topic: In vitro evaluation of macrolide antibiotics against *Rickettsia rickettsii*.

15. Poster: Ives TJ, Regnery RL, Manzewitsch P, and Kebede M. International Congress of Chemotherapy, Montreal, Canada. Invited presenter, July 17, 1995. Topic: In vitro evaluation of macrolide antibiotics against *Rickettsia rickettsii, R. conorii, Rickettsia akari* and *R. prowazekii* via immunofluorescent antibody testing. **Can J Infect Dis**. 1995; 6 (Suppl C): 336C.

16. Poster: Ives TJ, Regnery RL, Manzewitsch P, and Kebede M. American College of Clinical Pharmacy Annual Meeting, Washington, DC. Invited presenter, August 9, 1995. Topic: In vitro evaluation of macrolide antibiotics against *Bartonella (Rochalimaea)* species via immunofluorescent antibody testing. **Pharmacother.** 1995; 15: 377.

17. Poster: Ives TJ, Regnery RL, Manzewitsch P, Kebede M and Butts JD. Annual Meeting, Society of Infectious Diseases Pharmacists, San Francisco, CA. Invited presenter, September 18, 1995. Topic: In vitro evaluation of macrolide antibiotics against *Bartonella (Rochalimaea) henselae, B. quintana* and *B. elizabethae* via immunofluorescent antibody testing.

18. Poster: Ives TJ, Regnery RL, Manzewitsch P, Kebede M and Butts JD. 35th Interscience Conference on Antimicrobial Agents and Chemotherapy, San Francisco, CA Invited presenter, September 19, 1995. Topic: In vitro evaluation of macrolide antibiotics against *Bartonella (Rochalimaea) henselae, B. quintana* and *B. elizabethae* via immunofluorescent antibody testing.

19. Poster: Ives TJ, Regnery RL, Manzewitsch P, Kebede M and Butts JD. Third International Conference on the Macrolides, Azalides, and Streptogramins, Lisbon, Portugal. Invited presenter, January 25, 1996. Topic: In vitro evaluation of macrolide antibiotics against *Bartonella (Rochalimaea) henselae, B. quintana* and *B. elizabethe* via immunofluorescent antibody testing.

20. Poster: Ives TJ, McDermott JH and Brock TM. 97th Annual Meeting, American Association of Colleges of Pharmacy, Reno, NV. Invited presenter, July 17, 1996. Topic: Physical Assessment: Monitoring the Patient in the Pharmacy Environment.

21. Poster: Deloatch KD, Brock TM, Pittman AW, McDermott JH and Ives TJ. 97th Annual Meeting, American Association of Colleges of Pharmacy, Reno, NV. Invited presenter, July 17, 1996. Topic: Curricular Innovations at the University of North Carolina School of Pharmacy.

22. Poster: Ives TJ, Butts JD, Manzewitsch P and Regnery RL. American College of Clinical Pharmacy Annual Meeting, Nashville, TN. Invited presenter, August 7, 1996. Topic: In vitro evaluation of chloramphenicol against various species of *Bartonella* and *Rickettsia* via immunofluorescent antibody testing. **Pharmacother.** 1996; 16: 503.

23. Poster: Ives TJ, Marston EF, Regnery RL and Butts JD. 37th Interscience Conference on Antimicrobial Agents and Chemotherapy, Toronto, Canada. Invited presenter, September 28, 1997. Topic: In vitro susceptibilities of *Rickettsia akari, R. conorii, R. prowazekii, R. rickettsii, Bartonella elizabethae, B. henselae* and *B. quintana* to fluoroquinolone agents as determined by immunofluorescent-antibody analysis of infected Vero cell monolayers.

24. Poster: Ives TJ, Marston EF, Regnery RL and Butts JD. 37th Interscience Conference on Antimicrobial Agents and Chemotherapy, Toronto, Canada. Invited presenter, September 30, 1997. Topic: In vitro susceptibilities of *Rickettsia akari, R. conorii, R. prowazekii, R. rickettsii, Bartonella elizabethae, B. henselae* and *B. quintana* to 14-hydroxy-clarithromycin as determined by immunofluorescent-antibody analysis of infected Vero cell monolayers.

25. Poster: Wolford ET, Butts JD, Hall IH, Alford P and Ives TJ. 37th Interscience Conference on Antimicrobial Agents and Chemotherapy, Toronto, Canada. Invited presenter, October 1, 1997. Topic: In vitro pharmacodynamic and pharmacokinetic aspects of human monocyte (THP-1) uptake, distribution and efflux of ^{14}C-clarithromycin and ^{14}C-azithromycin under different environmental conditions.

26. Poster: Ives TJ, Marston EF, Regnery RL and Butts JD. Annual Meeting, American College of Clinical Pharmacy, Phoenix, AZ. Invited presenter, November 11, 1997. Topic: In vitro susceptibilities of *Rickettsia akari, R. conorii, R. prowazekii, R. rickettsii, Bartonella elizabethae, B. henselae* and *B. quintana* to fluoroquinolone agents as determined by immunofluorescent-antibody analysis of infected Vero cell monolayers. **Pharmacother.** 1997; 17: 1095.

27. Poster: Ives TJ, Marston EL, Regnery RL, Butts JD, Kebede M and Majerus TC. American College of Clinical Pharmacy Annual Meeting, Phoenix, AZ. Invited presenter, November 11, 1997. Topic: In Vitro Susceptibilities of *Rickettsia akari, R. conorii, R. prowazekii, R. rickettsii, Bartonella elizabethae, B. henselae,* and *B. quintana* to 14-hydroxy-clarithromycin as determined by immunofluorescent antibody analysis of infected Vero cell monolayers. **Pharmacother.** 1997; 17: 1095-6.

28. Poster: Ives TJ, Marston EF, Regnery RL and Butts JD. Fourth International Conference on the Macrolides, Azalides & Streptogramins, Barcelona, Spain. Invited presenter, January 23, 1998. Topic: In Vitro Susceptibilities of *Rickettsia akari, R. conorii, R. prowazekii, R. rickettsii, Bartonella elizabethae, B. henselae* and *B. quintana* to 14-hydroxy-clarithromycin as determined by immunofluorescent-antibody analysis of infected Vero cell monolayers.

29. Poster: Dietrich MA, Butts JD, Alford P, Ives TJ, and Hall IH. Sixth International Symposium on New Quinolones and Related Antibiotics, Denver, CO. Invited presenter, November 16, 1998. Topic: *In vitro* pharmacodynamic and pharmacokinetic aspects of THP-1 human monocyte uptake, distribution and efflux of ^{14}C-grepafloxacin under different conditions. **Drugs**. 1999; 58 (Suppl 2): 258-9.

30. Poster: Salzberg SA and Ives TJ. American College of Clinical Pharmacy/European College of Clinical Pharmacy Congress on Clinical Pharmacy, Orlando, FL. Invited presenter, April 13,

1999. Topic: Pharmacists as primary care practitioners in a family medicine clinic: a model for establishing services and obtaining reimbursement. **Pharmacother.** 1999; 19: 529.

31. Poster: Cooper JB, Brock TP and Ives TJ. 35th Annual ASHP Midyear Clinical Meeting, Las Vegas, NV. Invited presenter, December 5, 2000. Topic: Assessment of the spiritual aspect of patient care as addressed in pharmacy school curricula.

32. Poster: IH Hall, UE Schwab, ES Ward and TJ Ives. 41st Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, IL. Invited presenter, December 11, 2001. Disposition of clarithromycin in human THP-1 monocytes during stimulated and unstimulated conditions.

33. Poster: McBane SE, Ives TJ, and Weir SS. 37th Annual ASHP Midyear Clinical Meeting, Atlanta, GA. Invited presenter, December 5, 2002. Topic: Development of a pharmacist-based anticoagulation service in a family practice center.

34. Poster: 26th Annual Meeting, Society of General Internal Medicine, Vancouver, British Columbia. Chelminski P, Ives T, Pignone M, Malone R, Prakken S, Bryant B, Tolle J, Dewalt D, Felix K, and Corr K. Invited presenter, May 2, 2003. Topic: Baseline clinician perceptions of pain management in a pilot study of a pharmacist-assisted disease management program for patients with non-malignant chronic pain. **J Gen Intern Med**. 2003; 18 (S1): 130.

35. Poster: 27th Annual Meeting, Society of General Internal Medicine, Chicago, IL. Chelminski PR, Ives TJ, Prakken S, Malone RM, Miller TM, Bryant MB, Dewalt DA, Ripton J, Pignone MP. Topic: A primary care disease management program for patients with chronic pain. **J Gen Intern Med**. 2004; 19 (S1): 101-2.

36. Poster: 27th Annual Meeting, Society of General Internal Medicine, Chicago, IL. Ives TJ, Perhac JS, Felix KM, Malone RM, Prakken S, Bryant MB, Hammett-Stabler C, Ripton J, Miller TM, Dewalt DA, Pignone MP, Chelminski PR. Topic: Predictors of substance misuse in patients with chronic pain. **J Gen Intern Med**. 2004; 19 (S1): 195.

37. Poster: 27th Annual Meeting, Society of General Internal Medicine, Chicago, IL. Perhac JS, Ives TJ, Prakken S, Felix KM, Malone RM, Bryant MB, Ripton J, Dewalt DA, Pignone MP, Chelminski PR. Topic: Literacy and pain, functional status, and depression in primary care patients with chronic pain. **J Gen Intern Med**. 2004; 19 (S1): 175.

38. Poster: 28th Annual Meeting, Society of General Internal Medicine, New Orleans, LA. Potisek NM, Malone RM, Ives TJ, Chelminski PR, Pignone MP. Topic: Use of time-motion assessment to improve efficiency of patient visits in a primary care-based chronic pain management clinic. **J Gen Intern Med**. 2005; 20 (S1): 51.

39. Poster: American Pharmacists Association 2006 Annual Meeting, San Francisco, CA. Onyoni E and Ives TJ. Invited presenter, March 18, 2006. Assessing implementation of cultural competency in the curricula of colleges of pharmacy in the United States and Canada. **J Am Pharm Assn**. 2006; 46:231.

40. Poster: 29th Annual Meeting, Society of General Internal Medicine, Los Angeles, CA. Potisek NM, Ives TJ, Chelminski PR, Dewalt, Malone RM, Bryant-Shilladay ME, Pignone MP. Topic: An introductory visit decreases time to enrollment in a primary care-based chronic pain management program. **J Gen Intern Med**. 2006; 21 (S4): 190.

41. Poster: Annual Meeting, American Association for Clinical Chemistry, Chicago, IL. Greene K, Winecker RE, Ives TJ, Chelminski PR, Potisek NM, Hammett-Stabler C. Invited presenter, July 25, 2006. Interference of the Roche drugs of abuse assays by tramadol. **Clin Chem.** 2006: 52 (S6): A63-4.

42. Poster: 38th Annual Southeastern Residency Conference, Athens, GA, April 20, 2007. Guirguis AB, Shilliday BB, Malone RM, Ives TJ. Angiotensin-converting enzyme inhibitor (ACE-I) or angiotensin receptor blocker (ARB) use among women of childbearing potential in a general medicine clinic.

43. Poster: 30th Annual Meeting, Society of General Internal Medicine, Toronto, Canada. Guirguis AB, Shilliday BB, Malone RM, Ives TJ, Pignone MP. Invited presenter, April 28, 2007. Avoidance of angiotensin-converting enzyme inhibitor (ACE-I) or angiotensin receptor blocker (ARB) use among women of childbearing potential in a general medicine clinic. **J Gen Intern Med**. 2007; 22 (S1): 195.

44. Poster: 2007 Annual Meeting, American Association of Colleges of Pharmacy, Orlando, FL, Lewis-Smith RE, Rake KM, Chelminski PR, Ives TJ. Invited presenter, July 15, 2007. Affective disorders, opioid misuse, and fibromyalgia in a population of primary care patients.

45. Poster: 31st Annual Meeting, Society of General Internal Medicine, Pittsburgh, PA. Berkowitz SA, Chelminski PR, Hayes KB, Ives TJ, and Pignone MP. Invited presenter, April 10, 2008. Prevalence of anxiety in patients with chronic non-malignant pain in a general internal medicine practice. **J Gen Intern Med**. 2008; 23 (S1): 377-8.

46. Poster: 43rd Annual ASHP Midyear Clinical Meeting, Orlando, FL, East AP, Ives TJ, and Shilliday BB. Invited presenter, December 8, 2008. Topic: Evidence-based review on the pharmacotherapeutic options for the treatment of chronic pain in the anticoagulated patient.

47. Poster: 32st Annual Meeting, Society of General Internal Medicine, Miami, FL. Chelminski PR, Hayes KB, Ives TJ. Invited presenter, May 14, 2009. Medication contract violations: Six-year outcomes in a primary care chronic pain program.

48. Poster: 2009 Annual Meeting, American Association of Colleges of Pharmacy, Boston, MA. Marciniak MW, Cox WC, Ivey J, Stegall-Zanation J, Ives TJ. Invited presenter, July 19, 2009. Development of a faculty writing club to promote scholarship.

49. Poster: 2009 Annual Meeting, American Association of Colleges of Pharmacy, Boston, MA. Brown KP, Campbell K, Davis T, Deloatch KH, Ferreri S, Gabriel M, Gal P, Kemp DW, Leadon KI, Mayo AJ, Tofade T, Ives TJ. Invited presenter, July 19, 2009. Strategic planning for a new Division of Pharmacy Practice and Experiential Education through statewide faculty collaboration.

50. Poster: 2009 Annual Meeting, American College of Clinical Pharmacy, Anaheim, CA. Linnebur SA, MacLaughlin EJ, Ives TJ, Seaton T. Invited presenter, October 19, 2009. 17 years of promoting ambulatory care: the history of the Ambulatory Care PRN.

51. Poster: 2009 Midyear Clinical Meeting, American Society of Health-System Pharmacists, Las Vegas, NV. Murawski M, Perdiew J, Dole EJ, Ives TJ, Tinker D, Colucci VJ. Invited presenter,

December 7, 2009. Certified advanced clinical practitioners in New Mexico and North Carolina: an initial survey of practice characteristics and mechanisms.

52. Poster: Seventh Annual NCAP Student Research Symposium, Greensboro, NC. Morrison SN, Andrew WC, Ives TJ. Invited presenter, March 23, 2010. Rates of adherence for the filling of antidepressant prescriptions in a Medicaid population with chronic pain and depression.

53. Poster: 2010 Spring Practice and Research Forum, American College of Clinical Pharmacy, Charlotte, NC. Leone A, Blalock S, Ives TJ. Invited presenter, April 24, 2010. Pharmacotherapeutic treatment of anxiety disorders: Investigating the correlation between GAD-7, PHQ-9, and brief pain inventory scores.

54. Poster: 2010 Spring Practice and Research Forum, American College of Clinical Pharmacy, Charlotte, NC. Gerrald KR, Whitney A, Shilliday BB, Ives TJ, Malone RM. Invited presenter, April 24, 2010. Implementation and reliability of a depression screening program in an outpatient internal medicine diabetes population.

55. Poster: 34th Annual Meeting, Society of General Internal Medicine, Phoenix, AZ. Bumgarner J, Stewart L, McDonald S, Andrew W, Ives, T, Chelminski P, Pignone M, Lewis C. Invited presenter, May 5, 2011. Viewing of chronic pain decision aids in a multidisciplinary pain program and patient reported outcomes.

56. Poster: 2011 Midyear Clinical Meeting, American Society of Health-System Pharmacists, New Orleans, LA. Faison A, Cavanaugh J, Shilliday BB, Ives, TJ. Invited presenter, December 5, 2011. Simvastatin: identifying patients at risk for myopathy and applying the Food and Drug Administration (FDA) labeling changes to clinical practice.

57. Poster: 2011 Midyear Clinical Meeting, American Society of Health-System Pharmacists, New Orleans, LA. Moretz JD, Cavanaugh JJ, Shilliday BB, Malone RM, Ives TJ. Invited presenter, December 5, 2011. An assessment of the impact of Clinical Pharmacist Practitioners (CPP) in collaborative practices on improvement of Medicare-eligible populations in North Carolina.

58. Poster: 2011 Midyear Clinical Meeting, American Society of Health-System Pharmacists, New Orleans, LA. Warshany K, Cavanaugh JJ, Ives TJ, Shilliday BB. Invited presenter, December 5, 2011. Outcomes and patient acceptance of a Medicare annual wellness visit administered by a Clinical Pharmacist Practitioner in an internal medicine clinic.

59. Poster: 2011 Midyear Clinical Meeting, American Society of Health-System Pharmacists, New Orleans, LA. Stevens J, Shilliday BB, Cavanaugh JJ, Ives TJ. Invited presenter, December 5, 2011. Converting hyperlipidemic patients from simvastatin 80 mg to a safer, evidence-based regimen.

60. Poster: 2012 APhA Annual Meeting, New Orleans, LA. Hale JC, Ives TJ. Invited presenter, March 10, 2012. Opportunities and barriers of Clinical Pharmacist Practitioners in North Carolina.

61. Poster: Eighth Annual University Research Day, University of North Carolina at Chapel Hill. Hale JC, Ives TJ. Invited presenter, March 26, 2012. Successes and challenges of Clinical Pharmacist Practitioners in North Carolina.

62. Poster: 2012 ACCP Virtual Poster Symposium. Hale JC, Ives TJ. Invited presenter, May 22-24, 2012. Successes and challenges of Clinical Pharmacist Practitioners in North Carolina.

63. Poster: 2012 Midyear Clinical Meeting, American Society of Health-System Pharmacists, Las Vegas, NV. Chim, Y-LE, Guyton JE, Ratner S, Ives TJ, Bryant Shilliday B. Design and implementation of medication protocols to substitute potentially inappropriate medications in an elderly population with safer therapies.

64. Poster: 2012 Midyear Clinical Meeting, American Society of Health-System Pharmacists, Las Vegas, NV. Hale JC, Moretz JD, Fearrington LR, Cavanaugh JJ, Shilliday BB, Ives TJ. The clinical impact of clinical pharmacist practitioners in an outpatient university healthcare system in North Carolina.

65. Poster: 2012 Midyear Clinical Meeting, American Society of Health-System Pharmacists, Las Vegas, NV. Guyton EJ, Ives TJ, Cavanaugh JJ, Ratner S, Bryant Shilliday B. Identification of positive hepatitis C screening results in a primary care clinic and implementation of a referral for treatment algorithm.

66. Poster: 2012 Midyear Clinical Meeting, American Society of Health-System Pharmacists, Las Vegas, NV. Wai MC, Guyton JE, Ives TJ, Cavanaugh JJ, Bryant Shilliday B. Evaluation of appropriate medication use in systolic heart failure patients.

67. Poster: 2013 Sixth Annual Research Week, University of the Incarnate Word, San Antonio TX. MacLaughlin EJ, Ardery G, Jackson EA, Ives TJ, Young RB, Fike DS, Carter BL. Invited presenter, March 1, 2013. Navigating the IRB process in a national, interdisciplinary, multicenter trial.

68. Poster: 2013 Annual Meeting, American College of Clinical Pharmacy, Albuquerque, NM. MacLaughlin EJ, Ardery G, Jackson EA, Ives TJ, Young RB, Fike DS, Carter BL. Invited presenter, October 15, 2013. Institutional review board barriers and solutions encountered in the Collaboration Among Pharmacists and Physicians to Improve Outcomes Now study: A national multicenter practice-based implementation trial.

69. Poster: 2013 Midyear Clinical Meeting, American Society of Health-System Pharmacists, Orlando, FL. Misher AM, Bledsoe CG, Dolan-Soto DR, Blalock SJ, Weil A, Ives TJ. Invited presenter, December 9, 2013. Screening for Anxiety and Depression in a Non-malignant Chronic Pain Population.

70. Poster: 2013 Midyear Clinical Meeting, American Society of Health-System Pharmacists, Orlando, FL. Bernstein AT, Fearrington LR, Hale JC, Kislan MM, Ives TJ. Invited presenter, December 9, 2013. Clinical efficacy and cost-effectiveness of Clinical Pharmacist Practitioners in chronic disease management of ambulatory care patients.

71. Poster: 2013 Midyear Clinical Meeting, American Society of Health-System Pharmacists, Orlando, FL. Kislan MM, Fearrington LR, Bernstein AT, Hale JC, Ives TJ. Invited presenter, December 9, 2013. Cost of medications prescribed by Clinical Pharmacist Practitioners versus Primary Care Providers to reach chronic disease state goal for Medicare patients in North Carolina.

72. Poster: 2013 Midyear Clinical Meeting, American Society of Health-System Pharmacists, Orlando, FL. Greene J, Eshet S, Chelminski PR, Ives TJ. Invited presenter, December 9, 2013.

Comparison of short-acting as needed analgesia versus long-acting basal analgesia in opioid-treated patients with an emphasis on improving functional and mental health outcomes.

73. Poster: 2014 Midyear Clinical Meeting, American Society of Health-System Pharmacists, Anaheim, CA. Roess B, McKnight L, Ives TJ. Invited presenter, December 8, 2014. Medication adherence in a chronic pain patient population: opiate-based agents, adjuvant analgesics, and non-steroidal anti-inflammatory agents.

74. Poster: 2014 Midyear Clinical Meeting, American Society of Health-System Pharmacists, Anaheim, CA. Kislan MM, Bernstein AT, Fearrington LR, Ives TJ. Invited presenter, December 8, 2014. Advanced Practice Pharmacists: cost-effectiveness of clinicaL pharmacist practitionErs (CPPs) in the management of ambulatory Medicare patients in North Carolina (APPLE-NC)

Non-refereed works

Ives TJ and McDermott JH. Chemical dependency residency program offered to pharmacists. **Epikrisis.** 1992; 2: 1.

TEACHING ACTIVITIES

School of Pharmacy

Coordinator, Honors Program Seminar (PHCY 99H), 1988-1992

Lecturer, PHCY 152, Pharmacotherapeutics I. (1990-2000)
Topics: Dermatology Module, Urinary Tract Infections (Infectious Diseases Module)

Lecturer, PhPr 75, Introduction to Clinical Pharmacy Practice (1984-1992)
Topics: Physical Assessment/Diagnosis, Poisonings/Poison Prevention, and Substance Abuse

Lecturer, PHCY 73/443, Pharmacotherapeutics II (1993 - present); Course Coordinator (2009-13)
Topics: Current: Dermatology Module
Past: Pharmacotherapeutic Work-Up of the Patient, and Diabetes Mellitus (Endocrine Module)

Recitation Leader, PHCY 450, Problems in Pharmacotherapy (2000 – present)

Lecturer, PHCY 74, Drug Literature Analysis and Interpretation (1997-2001)
Topic: Developing an Evidence-Based Pharmacy Practice

Lecturer and Course Coordinator, PhPr 77, Pharmacotherapeutics III (1992 - 1993)
Topic: Pharmacotherapeutic Work-Up of the Patient

Lecturer, Course Coordinator, and Course Developer in PhPr 80, Substance Abuse (1987-1992, 1995-1996) Topics: Opioids, Sedative/Hypnotics, Volatile Substances, Alcoholism, Interventions, & Hallucinogens

Lecturer, PHCY 81, Geriatric Pharmacy Practice (1986-2000)
Topics: Adverse Drug Events/Drug Interactions in an Older Population, Prescribing for the Elderly

Lecturer in PHCY 87/446, Pharmacotherapeutics VI (2002 - present)
Topic: Neuropathic/Myofascial Pain (Neurology/Psychiatry Module)

Lecturer, PhPr 93/PHCY 157, Community Pharmacy Practice (1982-2001); Course Developer and Coordinator, 1982-1987. Topics: Dermatological Products, Diabetes Care Products, Foot Care Products, and Physical Assessment

Lecturer, PhPr/PHCY 109, Acute Care Pharmacy Practice (1984–2000)
Topic: Diabetic Ketoacidosis

Lecturer, PHCY 806/PhPr 110, Ambulatory Care Pharmacy Practice (1981-2011)
Topics: Dermatological Disorders, Reimbursement Issues, and Common Community Emergencies

Lecturer and Course Coordinator, PHCY 167, Physical Assessment (1993-2003)
Topics: Head, Ears, Eyes, Nose and Throat; Skin and Extremities, Mental Status, General Growth & Nutrition, Pulmonary, Musculoskeletal, Neurologic, Head and Neck, and Putting It All Together

Lecturer, PhPr 175, Iatrogenic Diseases (1987-1996)
Topic: Dermatological Iatrogenesis

Lecturer, PhPr 177, Graduate Pathophysiology and Therapeutics. (1987-1996)
Topics: Diabetes Mellitus

Lecturer, EPID 140, Aging and Health (2000-2003)
Topic: Medication Use in an Older Population

Lecturer, NURS 229, Pharmacotherapeutics in Primary Care Nursing (1984–2005)
Topics: Dermatology; Diabetes Mellitus, Thyroid Disorders, Hematology (General)

Lecturer, OMSU 220, Clinical Therapeutics for Dental Graduate Students
Topic: Psychosocial Aspects of Drug Use

Lecturer, PHYT 242, Pathology/Pharmacology for Physical Therapy (2001-2003)
Topics: Pain, Diabetes Mellitus

Course Coordinator, PHCY 608, Multidisciplinary Perspectives on Managing Diabetes Mellitus (2002 – 2010, and 2015 - present). Topics taught: Insulin Pharmacotherapy

Course Coordinator, PHCY 132, Rural and Underserved: An Interdisciplinary Approach to Health Care (2004–2007)

Lecturer, PHCY 40, Topical Issues in Health Sciences: Learning through Service in the Community (2005). Topic: Depression/Mental Illness

Lecturer, PHCY 462, Professional Experience Program (2008 – 2010)
Topic: Certificate Programs and Board Certification

Lecturer, PHCY 463, Professional Development 3 (2012 – present)
Topic: Advocacy Issues in Pharmacy

Lecturer, DPPE 806, Medication Therapy Management (2008 – 2010)
Topic: Billing for Cognitive Services

School of Medicine

Coordinator, Problem-Based Case Conference (1996 - 1999)
Lecturer in third-year elective rotation in Family Medicine. Topic: Medication prescribing practices (1981-2002)

ADVISORY ACTIVITIES

Doctor of Pharmacy Candidates

Janice Parry, Pharm.D. (1983)
Vance Collins, Pharm.D. (1985)
Maureen Culhane, Pharm.D. (1985)
Kathleen Petrizzi, Pharm.D. (1987)
Ingrid B. Lewis, Pharm.D. (1988)
Kay Uttech, Pharm.D. (1989)
Joey Pippin, Pharm.D. (1994)
Amy Mewborn, Pharm.D. (1995)
Stephanie Pihl-Leggett, Pharm.D. (1995)
Angela S. Wilson, Pharm.D. (1996)

Pharmacy Residents

Ingrid Lewis, Pharm.D. (1989) - Specialty Resident in Geriatrics
Kay Uttech, Pharm.D. (1990) - Specialty Resident in Geriatrics
Valerie Brooks, B.S.Pharm. (1991) - Specialty Resident in Alcohol and Other Drug Abuse
Sarah A. Salzberg, Pharm.D. (1999) - General Pharmacy Practice Resident
Kam A. Capoccia, Pharm.D. (2000) - General Pharmacy Practice Resident
Julie Tolle, Pharm.D. (2003) – Primary Care Practice Resident
Caron Misita, Pharm.D. (2004) – Primary Care Practice Resident
Debra S. Wobbleton, Pharm.D. (2005) – Primary Care Practice Resident
Sarah K. Ford, Pharm.D. (2006) – Primary Care Practice Resident
Alexander B. Guirguis, Pharm.D. (2007) – Primary Care Practice Resident
Kathryn L. Kiser, Pharm.D. (2008) – Primary Care Practice Resident
Lauren B. McKnight, Pharm.D. (2009) – Primary Care Practice Resident
Katherine R. Gerrald, Pharm.D. (2010) – Primary Care Practice Resident
Marcy T. DelMonte, Pharm.D. (2011) – Primary Care Practice Resident
Jamie J. Cavanaugh, Pharm.D. (2012) - Primary Care Practice Resident
Justinne Guyton, Pharm.D. (2013) – Primary Care Practice Resident
Jennifer Simon, Pharm.D. (2014) – Primary Care Practice Resident
Molly Howard, Pharm.D. (2015) – Primary Care Practice Resident

Masters Candidates

Antonia Valakas, M.S. (1988) - Masters Candidate in Pharmacy Administration
JungEun Ahn, M.S.Pharm. (1997) - Masters Candidate in Pharmacy
Rosalind Lewis-Smith (2007) - Masters Candidate in Pharmacy (MPharm), University of Wales, Cardiff
Marian Khalaf (2008) – Masters Candidate in Pharmacy (MPharm), University of Wales, Cardiff

School of Pharmacy Honors Candidates

Robin Ferguson Dills (1990)
Ann Christine Teague (1991)
Michelle L. Geisler (1999)
Kimberly Presnell (2001)
Julie B. Cooper (2002)
Sabina Ludy (2003)
Esther Onyoni (2005)
Andrea Leone (2007)
Anne Misher (2012)
Adam Bernstein (2013)
Weston Ogburn (2014)

Department of Family Medicine Residents

Henry Simkin, M.D. (1986)
Warren P. Newton, M.D. (1987)
Richard Tardell, M.D. (1988)
John J. Varenholt, M.D. (1989)
Margaret R. Helton, M.D. (1990)
Addison Wilson, M.D. (1991)
John Kessel, M.D. (1993)
Geoffrey R. Cox, M.D. (1994)
Valerie King, M.D. (1994)
Carmen Strickland, M.D. (1995)
John Corey, M.D. (1996)
Roxanne Dietzler, D.O. (1996)
Sarah Garritz, M.D. (1997)
Terry Buchanan, M.D. (1998)
Allison Evanoff, M.D. (1999)

GRANTS

1. Primary Investigator. Efficacy of etodolac in the management of acute pain. Funded by Ayerst Laboratories for $16,000 (1984).

2. Co-investigator. Residency training grant in Family Medicine. Funded by the Bureau of Health Professions, U.S. Department of Health and Human Services for $161,689 (1985).

3. Primary Investigator. Efficacy of single-dose metronidazole in the treatment of bacterial vaginosis. Funded by Searle Laboratories for $2,800 (1985).

4. Co-investigator. Supplemental grant for residency training in Family Medicine with a focus in Patient Education. Funded by the Bureau of Health Professions, U.S. Department of Health and Human Services for $151,200 (1986).
5. Co-investigator. Drug use in rest homes in North Carolina. Funded by the Hartford Foundation for $565,000 (1988).

6. Primary investigator. Research grant to develop a post-doctoral specialty residency/fellowship in geriatric pharmacotherapy. Funded by Ciba-Geigy Pharmaceutical Company for $10,000 (1988).

7. Co-investigator. Safety and Efficacy of Isradipine Once Daily for the Treatment of Moderate-to-Severe Essential Hypertension. Funded by Glaxo Pharmaceutical for $12,395 (1989).

8. Primary investigator. Continuation grant for a post-doctoral specialty residency/fellowship in geriatric pharmacy. Funded by Ciba-Geigy Pharmaceutical Company for $10,000 (1989).

9. Primary Investigator. Grant Awards for Pharmacy Schools (GAPS) Application, 1989-90 cycle. Title: Development of a Comprehensive Chemical Dependency Pharmacy Practice Residency and Education Network in North Carolina. Funded for $36,251 (1990).

10. Primary Investigator. Development of a Computerized Chemical Dependency Pharmacy Practice Education Network in North Carolina. Funded by the DuPont Merck Pharmaceutical Company for $1,500 (1991).

11. Primary Investigator. The Extent of Prescription Drug Abuse in the State of North Carolina. Funded by the Division of Mental Health, Developmental Disabilities and Substance Abuse Services, North Carolina Department of Human Resources for $7,000 (1992).

12. Primary Investigator. *In Vitro* Evaluation of the Susceptibility of Various Species of Rickettsia to Azithromycin. Funded by Pfizer Laboratories for $6,000 (1992).

13. Primary Investigator. *In Vitro* Evaluation of the Susceptibility of Various Species of Rickettsia to Roxithromycin. Funded by Roussel Uclaf for $4,500 (1992).

14. Primary Investigator. *In Vitro* Evaluation of the Susceptibility of Various Species of Rickettsia to Clarithromycin. Funded by Abbott Laboratories for $6,500 (1992).

15. Co-Investigator. Cognitive Impairment and Medication Appropriateness. Funded by the Agency for Health Care Policy and Research for $192,297 (1993).

16. Primary Investigator. *In Vitro* Evaluation of the Susceptibility of Various Species of Rickettsia to Dirithromycin. Funded by Eli Lilly for $6,000 (1993).

17. Primary Investigator. *In Vitro* Evaluation of the Susceptibility of Various Species of Rickettsia to ofloxacin and L-ofloxacin. Funded by McNeil Laboratories for $6,500 (1993).

18. Primary Investigator. *In Vitro* Evaluation of the Susceptibility of *Bartonella (Rochalimaea) henselae, B. quintana,* and *B. elizabethae* to Azithromycin. Funded by Pfizer Laboratories for $6,500 (1993).

19. Primary Investigator. *In Vitro* Evaluation of the Susceptibility of *Bartonella (Rochalimaea) henselae, B. quintana,* and *B. elizabethae* to Macrolide Antibiotics. Funded by Abbott Laboratories for $21,600 (1993).

20. Co-Investigator. Development of Computerized Systems to Assist in Patient Management and Quality Assurance on a Family Medicine Inpatient Service. Funded by the Innovative Projects Program, The University of North Carolina Hospitals for $33,852 (1993).

21. Co-Investigator. Management of Severe Disruptive Vocalization in Dementia: A Clinical Trial of Three Alternatives to Neuroleptics. Funded by the National Institute on Aging for $965,769 (1994).

22. Primary Investigator. Use of Topical Fluticasone Propionate in the Treatment of Common Warts. Funded by Glaxo Dermatology for $1,675 (1994).

23. Co-investigator. Improving the User Friendliness of the Family Practice Inpatient Service (FPIS) for Community Practitioners. Funded by the Innovative Projects Program, The University of North Carolina Hospitals for $24,644 (1994).

24. Primary Investigator. *In Vitro* Evaluation of the Susceptibility of Various Species of *Bartonella* to Roxithromycin. Funded by Roussel Uclaf for $4,430 (1995).

25. Primary Investigator. *In Vitro* Evaluation of the Susceptibility of *Bartonella henselae, B. quintana,* and *B. elizabethae* and *R. rickettsii* to 14-hydroxy clarithromycin. Funded by Abbott Laboratories for $5,525 (1995).

26. Primary Investigator. Educational grant for a continuing education program: Menopause: A Multidisciplinary Look at Women's Concerns. Funded by Wyeth-Ayerst Laboratories for $7,500 (1995).

27. Primary Investigator. *In Vitro* Evaluation of the Susceptibility of *Bartonella henselae, B. quintana,* and *B. elizabethae* and *R. rickettsii* to 14-hydroxy clarithromycin. Funded by Abbott Laboratories for $15,000 (1995).

28. Primary Investigator. *In Vitro* Evaluation of the Susceptibility of *Bartonella henselae, B. quintana,* and *B. elizabethae* and *R. rickettsii* to trovafloxacin. Funded by Pfizer Laboratories for $6,500 (1995).

29. Co-investigator. *In Vitro* Pharmacodynamic and Pharmacokinetic Aspects of THP-1 Human Monocyte Uptake, Distribution and Efflux of ^{14}C-Grepafloxacin under Different Conditions. Funded by GlaxoWellcome for $30,000 (1996).

30. Primary Investigator. Uptake of Tritium-labeled Azithromycin by Human Macrophages. Funded by Pfizer Laboratories for $11,060 (1996).

31. Co-investigator. Uptake of Tritium-labeled Clarithromycin by Human Macrophages. Funded by Abbott Laboratories for $10,125 (1996).

32. Primary Investigator. Initiation of a Cardiovascular Risk Reduction Clinic in a Family Practice Center. Funded by Wyeth-Ayerst for $12,500 (1996).

33. Co-investigator. Asthma care and adherence to guidelines in an academic family medicine clinic. Funded by GlaxoWellcome for $12,000 (1998).

34. Primary Investigator. *In vitro* evaluation of the susceptibility of *Bartonella henselae, B. quintana,* and *B. elizabethae* and *R. rickettsii* to trovafloxacin. Funded by Pfizer Laboratories for $12,541 (1998).

35. Primary Investigator. *In vitro* analysis of the effect of phagocytosis on ^{14}C-clarithromycin uptake, distribution and efflux by stimulated (THP-1) human monocytes. Funded by Abbott Laboratories for $33,907 (1999).

36. Primary Investigator. *In vitro* analysis of the effect of phagocytosis on ^{14}C-moxifloxacin uptake, distribution and efflux by stimulated (THP-1) human monocytes. Funded by Bayer Laboratories for $33,917 (2000).

37. Co-investigator. Development of a Visiting Clinician Program at University of North Carolina. Funded by GlaxoSmithKline for $25,000 (2000).

38. Primary Investigator. Pilot Study of a Pharmacist-led Disease Management Program for Patients with Chronic Pain in Primary Care. Funded by Pfizer for $10,000 (2003).

39. Co-investigator. Predictors of opiate misuse in primary care. National Institute of Mental Health, January 1, 2007 – December 31, 2012. Direct costs: $2.5 million; 20% effort (estimated; unfunded).

40. Primary investigator, United States Congressional Earmark Grant. Proposal title: Impact of a primary care practice model utilizing clinical pharmacist practitioners (CPP) to improve the care of Medicare-eligible populations in North Carolina. Funding agency: Office of Research, Development, and Information, Centers for Medicare & Medicaid Services. Estimated direct costs: $ $95,305.41.

41. Local Primary Investigator, from NIH/NHLBI, for $819,787, 3/15/09 – 8/31/13. Subcontract to Carter BL, Primary Investigator. Carter BL, Ardery G, James PA et al. A collaborative model to improve blood pressure control and minimize racial disparities. Objective: To evaluate physician-pharmacist co-management of hypertension in a large multi-center clinical trial in clinics with geographic, racial and ethnic diversity.

42. Local Primary Investigator, from NIH/NHLBI, for $10,112,371, 7/1/14 – 8/31/17. Subcontract to Carter BL, Primary Investigator. Carter BL, Coffey CS, James PA, et al. A web-based cardiovascular risk service to improve secondary prevention: MEDication Focused Outpatient Care for Underutilization of Secondary Prevention (MED-FOCUS). Objective: To conduct a multi-center, cluster-randomized implementation study utilizing a web-based, centralized cardiovascular risk service (CVRS) to determine the extent to which the CVRS model will be adopted and implemented in medical offices with large geographic, racial and ethnic diversity.

PROFESSIONAL SERVICE

Memberships

American Association of Colleges of Pharmacy
American Association of University Professors
American Pharmacists Association
American Public Health Association
National Academies of Practice
Sigma Xi Scientific Research Society
Society of Primary Care Policy Fellows
American College of Clinical Pharmacy
American Diabetes Association
American Society of Health-System Pharmacy
Kappa Psi Pharmaceutical Fraternity
North Carolina Association of Pharmacists
Society of General Internal Medicine
Triangle College of Clinical Pharmacy

Editorial reviewer

American Family Physician (1999-2003)
American Journal of Health-Systems Pharmacy (1979 - present)
American Journal of Medicine (1988 - present)
American Journal of Pharmaceutical Education (1981 - present)
American Pharmacy (1981-90)
Annals of Pharmacotherapy (1981 - present)
Applied Therapeutics: The Clinical Use of Drugs, Section Editor (2010 – present)
Archives of Family Medicine (1993 - 2001)
Clinical Pharmacy (1986-93)
Diabetes Spectrum (1988-99; Editorial Board (1989-92), Associate Editor (1992-96)
Family Medicine (1983-2004)
Family Medicine Review (1982-84)

General Hospital Psychiatry (2007 – 2010)
Journal of Family Practice (1994-2002)
Journal of the American Medical Association (JAMA) (2014 – present)
Journal of General Internal Medicine (2004 – present)
The Gerontologist (1994 - 2001)
Pharmacotherapy (2004 – present)
U.S. Pharmacist (1981-86)
Handbook of Nonprescription Drugs, 11th Edition: Acne Section (1995); 12th Edition: Acne Section (1999); 13th Edition: Acne Section (2002)
Pharmacotherapy Self-Assessment Program, 4th Edition: Prevention chapter, 2000-2001.
Pharmacotherapy Self-Assessment Program, 5th Edition: Government and Regulatory Authorities chapter, 2003.
Core Curriculum for Diabetes Education, 4th Edition, American Association of Diabetes Educators (2001)
International Journal of Antimicrobial Agents (2005 – 2010)
Research in Social and Administrative Pharmacy, Editorial Board (2011 – present)
NCMJ, North Carolina Medical Journal, Editorial Board (2012 – present)

Professional Activities

American Association of Colleges of Pharmacy

Section of Teachers of Pharmacy Practice (member, 1979 - present):
- Program Committee (1989-90)
- Task Force on Teaching Excellence (1990-91)
- Chair, Membership and Resolutions Committee (1994-97)
- Member, Resolutions Committee (2002–04)
- Member, Nominations Committee (2004–05)
- Member, Program Committee (2006–08)
- Member, Communications Task Force/Committee (2006-08); Chair (2006-2007)
- Secretary (2006–08)
- Chair, Strategic Plan and Bylaws Task Force (2008-2009)
- Chair-Elect, Chair, Immediate Past Chair (2009-2011)
- Chair, Section Development Task Force (2012-2013)

Council of Faculties:
- Faculty Affairs Committee (1991-92, 2002-03)
  - Committee on Minimum Standards for Volunteer Faculty (1992-93)
  - Resolutions Committee (1993-94)
- SIG on Substance Abuse and Rehabilitation (1987 - present)
- Academic Management System (1988-96)
- Standing Rules and Resolutions Committee (2009-10, 2010-11)

Council of Sections:
- Member (2009-15)
- Chair-Elect, Chair, and Immediate Past Chair (2012-15)

Member, Board of Directors (2012-15)
- Chair, Program Committee (2014-15)
- Member, Investment Committee (2014-15)
- Chair New Investigator Award selection Committee (2014-15)

University of North Carolina Representative, House of Delegates (1989-91)

Member, New Investigator Review Panel (1994-96)
Member, AACP/Glaxo Wellcome Management Resources Project (1995-96)
Member, AACP/Novo Nordisk Pharmacy Practice Diabetes Program Award Review Panel (1995-2006)
Member, Bylaws and Policy Development Committee (2003-05; Chair, 2004-05)
Member, Volwiler Award Committee (2007)
Member, AFPE – NACDS Foundation faculty Fellowship in Community Pharmacy Practice Advisory Committee (2008-13)

American College of Clinical Pharmacy
Reviewer, Contributed Papers for Seventh Annual Meeting (1986)
Budget and Finance Committee (1988-89, 1989-90, 1999-2000)
Chair, Task Force on Ambulatory Care Clinical Pharmacy Services (1991-93); Member, 1993-94
Research Institute Review Panel for Family Practice (1991 - 2002)

Ambulatory Care Practice and Research Network (PRN) (member, 1992 - present)
Founding Chair, Ambulatory Care PRN, 1992-93

Task Force on Reimbursement for Clinical Pharmacy Services (1998-99)
Public and Professional Relations Committee (2001-02)
Chair, Task Force on Advocacy (2002–04)
Secretary, and Member, Board of Regents (2002-05)

American Diabetes Association
Professional Membership Task Force (1991-92)
Board of Directors, North Carolina Affiliate (1992-95)
Associate Editor, Diabetes Spectrum (1992-95)
Member, Scientific Sessions Meeting Committee, Abstract Review Section (1994-95)

American Society of Health-System Pharmacists
Ambulatory Care Pharmacy Practice Special Interest Group (SIG) (member, 1979-89); Chair, 1985-86)
Contributed Papers Review Panel, Ambulatory Care/Primary Care sections (1983-present)
Primary Care Special Practice Group (SPG) (1989-94)

Board of Pharmaceutical Specialties
Primary Care Item Writing Panel (1994 - 1999)

Kappa Psi
Frank H. Eby National Award Committee (1991 - 1993)

North Carolina Association of Pharmacists
Clinical Pharmacist Practitioner Task Force (2004 - present)
Medication Therapy Management Committee (2007–2009)

North Carolina Institute of Medicine
Editorial Board, *North Carolina Medical Journal* (2011 – present)

North Carolina Medical Society
Pharmacist representative, North Carolina Medical Society Prescription Drug Abuse Fraud & Diversion Task Force (2006 - 2007)

North Carolina Pharmaceutical Association
Finance Committee (1990 - 1996)
Health Reform and Health Policy (1995 - 1996)
Pharmaceutical Care and Compensation Committee (1994 - 1997)
State Legislation Committee (1995 - 1997)
Advisory Group for Pharmacy Practice Act Revision (1997 - 1999)
Public Health and Health Policy Committee (1994 - 1997; Chair, 1998 - 1999)

North Carolina Society of Hospital Pharmacists
Board of Directors (1985 - 1987)
Pharmacy Practice Committee (1986 - 1991, 1993 - 1995, 1998 - 1999); Chair, 1987 - 1988),
Chair, Program Committee (1988 - 1989)
Special Committee on Pharmacy as a Clinical Profession (1988 - 1989)
Finance Committee (1991 - 1993)

Society of Teachers of Family Medicine
Member, Group on Pharmacotherapy (1998-2002)

State of North Carolina
Advisory Board, NC Governor's Academy for Prevention Professionals (1990 - present)
Board of Directors, Governor's Institute on Alcohol and Substance Abuse (1992 - 1994)
Chair, North Carolina Task Force on Prescription Drug Abuse and Diversion (1992 - 1993)
Member, NC Board of Pharmacy Practice Act Revision Committee (1994-98)
Member, National Pharmacy Diabetes Advisory Board (1994-95)
Member, Advocacy, Leadership and Resource Development Task Force, Diabetes Control Program, North Carolina Department of Health and Human Services (1996 – 2008; Chair, 2002-05)
Member, Leadership Committee on Unintentional Drug Overdoses, North Carolina Department of Health and Human Services (2005 – 2009)
Member, Controlled Substances Reporting System (2008 – present)
Member, State Advisory Council on Overdoses (2010 – present)

Orange County, North Carolina
Board of Health, Orange County Health Department (1991-2000); Chair (1995-2000)
Orange County Home and Community Care Block Grant Advisory Committee (1992-97)
Health Department Representative, UNC Hospitals Managed Care Committee (1997-98)

ACADEMIC ACTIVITIES

University of North Carolina at Chapel Hill:

School of Pharmacy

Faculty Advisor (Grand Council Deputy), Kappa Psi Pharmaceutical Fraternity (1983 - 2010)
Co-Coordinator, Geriatric Education Center, School of Pharmacy component (1986 - 1989)
Student Committee on Impairment (1986 - 1992; Chair, 1986 - 1990)
Member, Honors Program Committee (1987 – 1993; 2008 - present); Chair (1988 - 1992)
Graduate Faculty (1987 - present)
School of Pharmacy Coordinator, Pharmacist Recovery Network (1987 - 1992)
Co-Coordinator, UNC-Duke Pharmacotherapy Seminar (1987 - 1988)

Curriculum Committee (1987 - 1989)
Chair, School of Pharmacy Planning Committee - Teaching Group (1990 - 1991)
Interim Chair, Division of Pharmacy Practice (1992 - 1994)
School of Pharmacy Faculty Advisor, Chapel Hill IFC Homeless Shelter (1990 - 1999)
GAPS Review Committee (1993 - 1999)
Admissions Committee (1994-97; 2004 – present; Chair, 2010 - present)
Scholastic Achievement and Progression Committee (2000 - 2003)
Member, Ferguson Lectureship Committee (2004 – 2007; Chair, 2004)
Member, Ad Hoc Ambulatory Care Committee (2004)
Member, Ad Hoc Committee to Review Existing Standing Committees (2004)
Chair, Strategic Planning Task Force, Division of Pharmacy Practice and Experiential Education (2007 – 2008)
Member, Collaborative Working Group (between UNC Health System Department of Pharmacy and the Eshelman School of Pharmacy (2008 – 2009)
Secretary of the Faculty (2013 – present)
Chair, Eshelman School of Pharmacy Faculty Governance Revision Committee (2014)

School of Medicine

Member, UNCH Pharmacy & Therapeutics Committee (1982 - present)
Pain Management Subcommittee (2012 – present)
Residency Selection Committee, Department of Family Medicine (Chair, 1983 - 1986, and 1988 - 1993)
School of Medicine Alcohol and Substance Abuse Curriculum Committee (1985 - 1993)
Pharmacy and Therapeutics Committee, Generations Health Plan (1998 - 2000)
Visiting Clinician Program Advisory Committee (2001 - 2003)
Member, UNC Health System Pain Management Program (2005 – present)
Member, UNC Diabetes Interest Group, Carolina Roadmap Initiative (2005 – 2009)

General University

Member, Faculty Council (2011 – present)
Chair, Faculty Welfare Committee (2013 – present)
Alternate, Faculty Council (1991-93, 1994-95, 2002-05, 2005-08, 2008-10)
Member, Faculty Committee on Athletics (1992-93)
Member, Community and Diversity Committee (2002 - 2005)

EXTERNAL REVIEWERS/VISITATIONS OF UNC-CH DISEASE MANAGEMENT PROGRAM

1. U.S. Representative David Price – February 2004
2. Philip Johnston, Pharm.D., Department of Pharmacy, Vanderbilt University – March 2004
3. Julie Silverstein, MD, Department of Medicine, Wilmington Hospital, Wilmington, DE – June 2004
4. Betty Ann Johnson, MD, Division of General Internal Medicine and Primary Care, Medical College of Virginia – July 2004
5. U.S. Representative Richard Burr – August 2004
6. Michael J. Barry, MD, Chief, Department of General Medicine, Massachusetts General Hospital, Boston, MA – September 2004
7. Members, Quality of Care Committee, University of California at San Francisco – November 2004
8. Internal (i.e., to NC) Reviewers (2005 - present):

UNC-CH Departments of Family Medicine, and Pediatrics
Various Faculty, Duke University, Department of Medicine, 2005
Various Providers, Rex Healthcare System, Raleigh, 2005
Various Medical Directors, Blue Cross/Blue Shield of North Carolina, 2005 and 2005
Nancy Henley, MD, Medical Director, State Health Plan of North Carolina, 2006 & 2007
George Stokes, Executive Director, State Health Plan of North Carolina, 2006
William Primack, MD, UNC-CH Division of Nephrology, 2007
Thomas Wroth, MD, UNC-CH Department of Family Medicine, 2007
Samuel Weir, MD, UNC-CH Department of Family Medicine, 2007
Care Managers, Central Carolina Health Network, 2004 and 2007

PROFESSIONAL PRESENTATIONS

1. Tenth Annual Regional Conference for Hospital Pharmacy Teachers, Residents, and/or Graduate Students, Athens, GA, February 24, 1979. Topic: Florida Hospital Administrators' Attitudes Toward Clinical Pharmacy.

2. Utah State Prison System Conference on Drugs, Draper, UT, March 4, 1980. Topic: Management of Substance Abuse.

3. University of Utah, Salt Lake City, UT, June 15-19, 1980. Invited participant, School on Alcoholism and Other Drug Dependencies.

4. Alamance County Pharmaceutical Association Meeting, Burlington, NC, September 23, 1981. Topic: Drug Interactions.

5. Fifteenth Annual North Carolina Society of Hospital Pharmacists Fall Seminar, Raleigh, NC, October 28, 1981. Invited speaker. Topic: Single-Dose Treatment of Urinary Tract Infections.

6. Family Nurse Practitioner Program, School of Nursing, UNC-CH, February 8, 1982. Topic: Infectious Diseases and Antimicrobial Agents.

7. Department of Family Medicine Noon Conference, Womack Army Hospital, Fayetteville, NC. Invited speaker, March 15, 1982. Topic: Pharmacologic Inhibition of Premature Labor.

8. Department of Family Medicine Noon Conference, Womack Army Hospital, Fayetteville, NC. Invited speaker, October 18, 1982. Topic: Drug Therapy of Hypertension.

9. Columbia, SC AHEC. Invited speaker, May 26, 1982. Topic: Drugs Therapeutically Monitored.

10. Second Annual Society of Teachers of Family Medicine Southeastern Regional Meeting, Chapel Hill, NC, September 28, 1982. Topic: Role of the Clinical Pharmacist in Family Medicine Residency Programs.

11. Department of Family Medicine Noon Conference, Womack Army Hospital, Fayetteville, NC. Invited speaker, April 19, 1983. Topic: Antidepressant Pharmacotherapy.

12. UNC-CH Family Medicine Conference Day VII, Chapel Hill, NC, May 26, 1983. Topic: Constant Morphine Infusion for Sickle Cell Crisis Pain.

13. School of Pharmacy, UNC-CH, Continuing Education Program, October 4, 1983. Topic: Common Dermatologic Disorders.

14. Wilmington AHEC, Wilmington, NC. Invited speaker, October 25, 1983. Topic: Common Dermatologic Disorders.

15. School of Dentistry, UNC-CH, Dental Pharmacology Course. February 28, 1984. Topic: Psychotherapeutic Agents.

16. School of Nursing, UNC-CH, Family Nurse Practitioner Program. February 17, 1983 and March 2, 1984. Topic: Antimicrobial Agents.

17. ASHP Annual Meeting, Boston, MA. Invited speaker for Ambulatory Care Pharmacy Practice SIG Session, June 6, 1984. Topic: Acne Therapy.

18. Wake AHEC, Raleigh, NC. Invited speaker, October 15, 1984. Topic: Common Dermatologic Disorders/OTC Products.

19. Wake Medical Center, Raleigh, NC. Invited speaker for AHEC Noon Conference, April 2, 1985. Topic: Treatment of Common Dermatologic Disorders.

20. Northwest AHEC, Salisbury and Hickory, NC. Invited speaker, September 24 and October 20, 1985. Topic: Dermatology: Product Selection and Patient Counseling.

21. UNC-CH School of Nursing, Chapel Hill, NC. Invited speaker for Continuing Education Conference, October 4, 1985. Topic: Pain Control.

22. ASHP Midyear Clinical Meeting, New Orleans, LA. Moderator for Ambulatory Care Pharmacy Practice SIG Session, December 3, 1985. Topic: Current Controversies in the Management of Hypertension.

23. UNC-CH Geriatric Education Center. Invited Speaker for HPAA 202, Geriatric Health and Medical Care, February 26, 1986. Topic: Pharmacology and the Elderly.

24. North Carolina Rural Health Services, Chapel Hill, NC. Invited speaker for Annual Spring Continuing Medical Education Conference, March 20, 1986. Topic: New Drug Update.

25. UNC-CH School of Pharmacy Alumni Association, Chapel Hill, NC. Invited speaker for 1986 Annual Spring Reunion, May 4, 1986. Topic: Update on Topical Dermatologic Products.

26. UNC-CH Family Medicine Conference Day X, Chapel Hill, NC, May 30, 1986. Topic: Effect of an Educational Intervention on Oral Cephalosporin Use in Primary Care.

27. UNC-CH Geriatric Education Center. Invited speaker for GEC Summer Institute, June 17, 1986. Topic: Drug Use in the Elderly.

28. International Diabetes Center, Minneapolis, MN, October 20-24, 1986. Invited participant in Pharmacy Educator Classweek in Diabetes Education.

29. ASHP Midyear Clinical Meeting, Las Vegas, NV. Moderator for Ambulatory Care Pharmacy Practice SIG Session, December 9, 1986. Topic: Substance Abuse.

30. Wilmington AHEC, Whiteville, NC. Invited speaker, January 28, 1987. Topic: Common Community Dermatologic Disorders.

31. Greensboro AHEC, Greensboro and Burlington, NC. Invited speaker, March 10 and 25, 1987. Topic: Common Dermatologic Disorders.

32. UNC-CH Geriatric Education Center. Invited speaker for GEC Summer Institute, June 5, 1987. Topic: Drug Use in the Elderly.

33. Eighth Annual Family Medicine Fellows' Symposium, UNC-CH. Invited presenter, June 11, 1987. Topic: Dermatologic Adverse Drug Reactions in a Primary Care Setting.

34. Northwest AHEC, Boone and Winston-Salem, NC. Invited speaker, September 8, 1987 and March 6, 1988. Topic: Common Dermatologic Disorders.

35. Preventative Health Care Program for Senior Citizens, Greensboro, NC, sponsored by Congressman Howard Coble. Invited speaker, September 21, 1987. Topic: Tips on Prescription/OTC Drug Use by Older Americans.

36. Orange County School System Parent-Teacher Association (PTA), Hillsborough, NC. Invited speaker, November 18, 1987. Topic: Drugs in the Schools.

37. UNC-CH Second Annual Sports Medicine Conference, Chapel Hill, NC. Invited speaker, December 5, 1987. Topic: Drugs for Musculoskeletal Injuries - Effects and Side Effects.

38. Charlotte AHEC, Lincolnton, NC. Invited speaker, April 17, 1988. Topic: Common Dermatologic Disorders.

39. Annual Meeting, District III, National Association of Boards of Pharmacy and American Association of Colleges of Pharmacy, Gatlinburg, TN. Invited speaker, August 14, 1988. Topic: Review of AACP Guidelines for the Development of Chemical Impairment Policies for Colleges of Pharmacy.

40. Charlotte AHEC, Charlotte, NC. Invited speaker, September 15, 1988. Topic: Common Dermatologic Disorders.

41. North Carolina Academy of Consulting Pharmacists, Wrightsville Beach, NC. Invited speaker, September 17, 1988. Topic: Workshop on Consultant Pharmacy Services for the Elderly.

42. United Nations Association, Worldwide Multilateral Report on AIDS, Drug Abuse, and Pharmaceutical Quality, Chapel Hill, NC. Invited speaker, October 11, 1988. Topic: Worldwide Status on Substance Abuse Control Efforts.

43. Department of Family Medicine, UNC-CH, Wildacres, NC. Selected Lecturer, Seventh Annual David S. Citron Lecture, October 14, 1988. Title: What I Did on My Summer Vacation: The Role of Public Health in Family Medicine.

44. School of Pharmacy Alumni Association, UNC-CH. Invited speaker for 1988 Annual Fall Reunion, October 22, 1988. Topic: Substance Abuse: Educational Strategies for Prevention.

45. Wake AHEC, Smithfield, NC. Invited speaker, November 10, 1988. Topic: Antimicrobial Agents in Community Dental Practice.

46. Charlotte AHEC, Rutherfordton, NC. Invited speaker, November 13, 1988. Topic: Common Dermatologic Disorders.

47. ASHP Midyear Clinical Meeting, Dallas, TX. Moderator for Ambulatory Care Pharmacy Practice SIG Session, December 5, 1988. Topic: Impact of Therapeutic Innovation on Patient Outcomes.

48. Governor's Institute for Drug and Alcohol Abuse, Kenan Conference Center, UNC-CH, Chapel Hill, NC. Invited participant, February 10, 1989. Topic: Institute Planning Meeting.

49. Wake AHEC, Raleigh, NC. Invited speaker, March 7, 1989. Topic: Antimicrobial Agents in Community Dental Practice.

50. Charlotte AHEC, Charlotte, NC. Invited speaker, April 13, 1989. Topic: Hair - Development, Growth, Care, Loss, and Restoration.

51. Eastern AHEC, New Bern, NC. Invited speaker, April 29, 1989. Topic: Management of Community Acquired Pneumonias.

52. Symposium on the Pharmacist's Role and Responsibility in Health Promotion and Disease Prevention, North Myrtle Beach, SC. Invited speaker, May 21, 1989. Topic: Alcoholism: Current Concepts and Treatment Modalities.

53. Greensboro AHEC, Greensboro, NC. Invited speaker, October 10, 1989. Topic: Clinical Applications of Nonsteroidal Anti-inflammatory Agents.

54. UNC-CH Program on Aging, Geriatric Update 1990, Research Triangle Park, NC. Invited Speaker, February 1, 1990. Topic: Current Issues in Hospital Care of the Elderly: Prevention of Iatrogenic Disease.

55. Charlotte AHEC, Charlotte, NC. Invited speaker, February 7, 1990. Topic: Clinical Applications of Nonsteroidal Anti-inflammatory Agents.

56. College of Pharmacy, University of Arizona, Tucson, AZ. Invited speaker, February 17, 1990. Topic: Oral Hypoglycemic Agents in Non-Insulin Dependent Diabetes Mellitus (NIDDM).

57. Wake AHEC, Raleigh, NC. Invited speaker, May 3, 1990. Topic: Dermatologic Adverse Effects of Pharmacotherapy.

58. Eastern AHEC, Kill Devil Hills, NC. Invited speaker, May 24, 1990. Topic: Anabolic Steroids: Sports Use or Abuse?

59. $24^{th}/16^{th}$ Annual Carolina Hospital/Clinical Pharmacy Seminar, Greensboro, NC, September 26, 1990. Topic: Dermatologic Adverse Drug Reactions.

60. 69th North Carolina Social Services Institute, Research Triangle Park, NC. Invited speaker, November 1, 1990. Topic: Drug Misuse/Substance Abuse in Disabled/Older Patients.

61. School of Dentistry, UNC-CH, Chapel Hill, NC. Invited speaker, November 1 & 2, 1990. Topic: Chemical Dependency in the Dental Profession.

62. Academy of Students of Pharmacy Regional Meeting, Research Triangle Park, NC. Invited speaker, November 3, 1990. Topic: Substance Abuse Issues in Schools of Pharmacy.

63. Person County Pharmaceutical Association, Roxboro, NC. Invited speaker, November 4, 1990. Topic: Clinical Applications of Nonsteroidal Anti-inflammatory Agents.

64. Challenges of Practice in the 90's, School of Medicine, UNC-CH, Chapel Hill, NC. Invited speaker, April 14, 1991. Topic: Diabetes Care Update.

65. Wilmington AHEC, Wilmington, NC. Invited speaker, May 7, 1991. Topic: Dermatology for Pharmacists.

66. North Carolina Governor's Academy for Prevention Professionals, Chapel Hill, NC. Invited speaker, May 10, 1991. Topic: Pharmacologic Aspects of Substance Abuse.

67. North Carolina Governor's Academy for Prevention Professionals, Chapel Hill, NC. Invited speaker, September 13, 1991. Topic: Pharmacologic Aspects of Substance Abuse II.

68. Sixth Annual Pharmacy Practice Seminar, Wilmington, NC. Invited main speaker, September 15, 1991. Topic: Common Dermatological Problems.

69. Department of Dermatology, School of Medicine, Duke University, Durham, NC. Invited speaker, September 17, 1991. Topic: Dermatologic Formulations.

70. Conference on Medication and Alcohol Use, Misuse, and Abuse in Geriatrics, Wake County Alcoholism Treatment Center/Wake AHEC, Raleigh, NC. Invited speaker, October 10, 1991. Topic: Understanding the Principles of Pharmacology as Related to the Aging Population.

71. Greensboro AHEC, Greensboro, NC. Invited speaker, December 15, 1991. Topic: Update on the Pharmacotherapy of Diabetes Mellitus.

72. Geriatric Update 1992, Program on Aging, School of Medicine, UNC-CH, Chapel Hill, NC. Invited speaker, January 30, 1992. Topic: Adverse Drug Reaction Monitoring in an Older Population.

73. Certification Review Course for Diabetes Educators, School of Nursing, UNC-CH, Chapel Hill, NC. Invited speaker, March 5, 1992. Topics: Pharmacotherapy of Diabetes Mellitus.

74. Mountain AHEC, Asheville, NC. Invited speaker, May 7, 1992. Topic: Update on Dermatologic Products for Pharmacists.

75. Prevention for the 90's: A Menu of Diversity, sponsored by the Governor's Council on Alcohol and Other Drug Abuse. Invited Speaker, May 14, 1992. Topic: Prescription Drug Use, Misuse, and Abuse in an Older Population.

76. Department of Pharmacy, University of North Carolina Hospitals, Chapel Hill, NC. Invited speaker, May 17, 1992. Topic: Current Concepts in the Pharmacotherapy of Diabetes Mellitus.

77. Eastern AHEC, Elizabeth City, NC. Invited speaker, September 30, 1992. Topic: Pharmaceutical Care: Pharmacotherapy Work-up.

78. Northwest AHEC, Lenoir, NC. Invited speaker, October 14, 1992. Topic: Substance Abuse.

79. Third Annual Diabetes Symposium, Sentara Hospitals, Virginia Beach, VA, October 30, 1992. Topic: Update on the Role of Pharmacotherapy in the Management of Diabetes Mellitus.

80. Eastern AHEC, Morehead City, NC. Invited speaker, November 15, 1992. Topic: Update on Dermatologic Pharmacotherapeutics.

81. Practice Dilemmas in Geriatric Care, Program on Aging, School of Medicine, UNC-CH, Chapel Hill, NC. Invited speaker, January 14, 1993. Topic: "Geriatric Accutane": Adverse Drug Effects with Finasteride.

82. Lecture Series, Program on Aging, School of Medicine, UNC-CH, Chapel Hill, NC. Invited speaker, February 3, 1993. Topic: Questions Older Patients Should Be Asking You About Drug Use, and Vice Versa.

83. North Carolina Governor's Academy for Prevention Professionals, Chapel Hill, NC. Invited speaker, February 5, 1993. Topic: Clinical Pharmacology of Common Substances of Abuse in the Community.

84. Certification Review Course for Diabetes Educators, School of Nursing, UNC-CH, Chapel Hill, NC. Invited speaker, February 11, 1993. Topics: Insulin and Oral Hypoglycemic Agent Pharmacotherapy.

85. Charlotte AHEC, Gastonia, NC. Invited speaker, March 16, 1993. Topic: Current Concepts in the Pharmacotherapy of the Diabetes Mellitus.

86. Mountain AHEC, Asheville, NC. Invited speaker, April 8, 1993. Topic: The Pharmacist and Pharmacotherapy: Work-up and Monitoring.

87. Spring Meeting, Virginia Society of Hospital Pharmacists, Abingdon, VA. Invited speaker, May 21, 1993. Topic: Update in the Pharmacotherapy of the Patient with Diabetes Mellitus.

88. American College of Clinical Pharmacy Annual Meeting, August 17, 1993, Reno, NV. Topic: Reimbursement for Clinical Services and Research. Also, Developer and moderator, Clinical Pharmacy in the Community, August 16, 1993.

89. Eighth Annual Pharmacy Practice Seminar, Coastal AHEC, Wilmington, NC. Invited speaker, September 12, 1993. Topic: Complications of Diabetes Mellitus.

90. Northwest AHEC, Hickory, NC. Invited speaker, October 14, 1993. Topic: Innovative Teaching Techniques for Patients with Diabetes.

91. Wake County Pharmaceutical Association, Raleigh, NC. Invited speaker, January 13, 1994. Topic: Results of the Diabetes Control and Complications Trial: Implications for Pharmacists.

92. Greensboro AHEC, Eden, NC. Invited speaker, January 16, 1994. Topic: Substance Abuse.

93. Practice Dilemmas in Geriatric Care, Program on Aging, School of Medicine, UNC-CH, Chapel Hill, NC. Invited speaker, January 20, 1994. Topic: Accidental Hypothermia.

94. North Carolina Governor's Academy for Prevention Professionals, Chapel Hill, NC. Invited speaker, January 21, 1994. Topic: Pharmacology of Alcohol and Other Common Drugs of Abuse in the Community.

95. Greensboro AHEC, Greensboro, NC. Invited speaker, February 13, 1994. Topic: Pharmacologic Aspects of Alcohol and Other Drug Abuse.

96. Greensboro AHEC, Burlington, NC. Invited speaker, March 23, 1994. Topic: Pharmacotherapeutic Management of Alcohol Abuse and Alcoholism.

97. Northwest AHEC, Thomasville, NC. Invited speaker, June 5, 1994. Topic: Patient Pharmacotherapy Work-Up.

98. Cumberland County Pharmaceutical Association, Fayetteville, NC. Invited speaker, August 16, 1994. Topic: Update on Diabetes Mellitus and the Results of the Diabetes Control and Complications Trial: Implications for Pharmacists.

99. Orange-Chatham Comprehensive Health Services, Carrboro, NC. Invited speaker, Clinicians Conference, August 23, 1994. Topic: New Drug Update for Primary Care Physicians.

100. Ninth Annual Pharmacy Practice Seminar, Coastal AHEC, Wilmington, NC. Invited speaker, September 11, 1994. Topic: Management of Diabetes Mellitus.

101. Pharmacology Update for Primary Care Providers, UNC-CH School of Nursing, Chapel Hill, NC. Invited speaker, October 13, 1994. Topic: Dermatologic Conditions.

102. Area L AHEC, Rocky Mount, NC. Invited speaker, October 20, 1994. Topic: Alcohol and Other Drug Abuse.

103. Greensboro AHEC, Greensboro, NC. Invited speaker, December 10, 1994. Topic: Results of the Diabetes Control and Complications Trial: Implications for Pharmacists.

104. Challenges in Geriatric Practice, Program on Aging, School of Medicine, UNC-CH, Chapel Hill, NC. Invited speaker, January 19, 1995. Topic: Treatment of Chronic Sun-Induced Damage.

105. Annual Winter Meeting, North Carolina Society of Hospital Pharmacists, Greensboro, NC. Invited speaker, February 10, 1995. Topics: Assessing & Monitoring Guidelines to Prevent Long-Term Diabetic Complications, and the Role of Pharmacists in a Diabetes Management Program.

106. Charlotte AHEC, Lincolnton, NC. Invited speaker, February 19, 1995. Topic: Alcohol and Drug Abuse.

107. Area L AHEC, Rocky Mount, NC. Invited speaker, June 29, 1995. Topic: Primary Care for Pharmacists: Common Illnesses and Injuries.

108. Annual Meeting, Arkansas Society of Hospital Pharmacists, Little Rock, AR. Invited speaker, August 11, 1995. Topic: Reimbursement for Cognitive Clinical Pharmacy Services in an Ambulatory Care Setting.

109. Charlotte AHEC, Concord, NC. Invited speaker, September 6, 1995. Topic: Substance Abuse.

110. Tenth Annual Pharmacy Practice Seminar, Coastal AHEC, Wilmington, NC. Invited speaker, September 10, 1995. Topic: Dermatology Update.

111. Charlotte AHEC, Shelby, NC. Invited speaker, October 22, 1995. Topic: Substance Abuse.

112. Wake AHEC, Henderson, NC. Invited speaker, November 8, 1995. Topic: Update on the Management of Diabetes Mellitus.

113. Greensboro AHEC, Greensboro, NC. Invited speaker, December 3, 1995. Topic: Counseling the Patient with Diabetes: The Diabetes Control and Complications Trial (DCCT).

114. Challenges in Geriatric Practice, Program on Aging, School of Medicine, UNC-CH, Chapel Hill, NC. Invited speaker, January 11, 1996. Topic: Pharmacologic Approaches to Elderly Patients.

115. Care of Patients with Diabetes Mellitus in the Office Setting, School of Nursing, UNC-CH, Chapel Hill, NC. Invited speaker, March 7, 1996. Topic: Pharmacotherapeutic Advances.

116. Virginia Pharmacists Association Midyear Meeting, Williamsburg, VA. Invited speaker, May 5, 1996. Topic: Solving Drug-Related Problems in the Patient with Diabetes.

117. Pharmacist's Diabetes Alliance, Greensboro, NC. Invited speaker, June 8, 1996. Current Status of National Guidelines/Protocols for Pharmacist Disease Management Roles with Patients with Diabetes.

118. American College of Clinical Pharmacy Annual Meeting, Nashville, TN. Invited speaker, August 6, 1996. Topic: Roundtable presentation on Diabetes Outpatient Care Paths.

119. Eleventh Annual Pharmacy Practice Seminar, Coastal AHEC, Wilmington, NC. Invited speaker, September 8, 1996. Presentation Topic: Physical Assessment Primer. Workshop: ENT Assessment.

120. Women's Health and Diabetes: Looking Toward the Future, UNC-CH Schools of Nursing, Medicine, and Pharmacy. Invited speaker, September 27, 1996. Topic: New Frontiers in Pharmacotherapeutics.

121. Annual Meeting, Piedmont Health Services, Chapel Hill, NC. Invited speaker, October 4, 1996. Topic: Pharmacotherapeutic Update in the Management of Diabetes Mellitus and Obesity.

122. Challenges in Geriatric Practice, Program on Aging, School of Medicine, UNC-CH, Chapel Hill, NC. Invited speaker, January 9, 1997. Topic: Chronopharmacotherapeutics in an Older Population.

123. Department of Medicine/Pediatrics Adolescent Medicine Grand Rounds, School of Medicine, UNC-CH, Chapel Hill, NC. Invited speaker, February 13, 1997. Topic: Recreational Drug Use: What Are The Effects?

124. Annual Winter Meeting, North Carolina Society of Health-System Pharmacists, Charlotte, NC. Invited speaker, February 28, 1997. Topic: Basic Physical Assessment.

125. 144th Annual Meeting, American Pharmaceutical Association, Los Angeles, CA. Invited speaker, March 7, 1997. Topic: Workshop on Physical Assessment Skills for Pharmacists: Skin and Extremities.

126. Coastal AHEC, Wilmington, NC. Invited speaker, April 3, 1997. Topic: Clinical Reasoning Skills and Physical Assessment.

127. 1997 Midyear Meeting, Florida Society of Health-System Pharmacists, Fort Lauderdale, FL. Invited speaker, May 17, 1997. Topic: Reimbursement for Pharmacist Activities in a Family Practice Clinic Setting.

128. Triangle College of Clinical Pharmacy, Research Triangle Park, NC. Invited speaker, September 23, 1997. Topic: Update in the Pharmacotherapy of Diabetes Mellitus.

129. Family Medicine Grand Rounds, Wake AHEC, Wake Medical Center, Raleigh, NC. Invited speaker, September 27, 1997. Topic: Antibiotic Update for the Family Physician.

130. Northwest AHEC, Winston-Salem, NC. Invited speaker, Diabetes Certificate Program, October 16, 1997. Topics: Physical Assessment of the Patient with Diabetes, and Therapeutic Approaches.

131. Annual Meeting, Piedmont Health Services, Chapel Hill, NC. Invited speaker, October 24, 1997. Topics: Primary Care Drug Update, and Disease Management by Pharmacists in the Management of Hypertension, Asthma, and Diabetes Mellitus.

132. Advanced Pharmacology Review Series, UNC-CH School of Nursing, Chapel Hill, NC. Invited speaker, November 14, 1997. Topic: Pharmacology of Endocrine Disorders.

133. Coastal AHEC, Wilmington, NC. Invited speaker, January 27, 1998. Topic: Clinical Reasoning Skills for Pharmacists.

134. Annual Winter Meeting, North Carolina Society of Health-System Pharmacists, Greensboro, NC. Invited speaker, February 13, 1998. Topic: Basic Cardiac Physical Assessment.

135. Annual Meeting, Diabetes Today, North Carolina Diabetes Control Program, North Carolina Department of Health and Human Resources, Burlington, NC. Invited speaker, February 19, 1998. Topic: Diabetes Update 1998.

136. Diabetes Review Course, School of Nursing, UNC-CH, Chapel Hill, NC. Invited speaker, March 13, 1998. Topic: Pathophysiology of Diabetes Mellitus.

137. 145th Annual Meeting, American Pharmaceutical Association, Miami Beach, FL. Invited speaker, March 20, 1998. Topic: Workshop on Physical Assessment Skills for Pharmacists: Skin and Extremities.

138. Northwest AHEC, Winston-Salem, NC. Invited speaker, Diabetes Certificate Program, May 14, 1998. Topics: Physical Assessment of the Patient with Diabetes, and Therapeutic Approaches.

139. Wake AHEC, Raleigh, NC. Invited speaker, May 21, 1998. Topic: Dermatology for the Pharmacist: Rashes that Itch and Itches that Rash.

140. 118th Annual Meeting, North Carolina Pharmaceutical Association, Chapel Hill, NC. Invited speaker, May 30, 1998. Topic: Workshop on Physical Assessment of Skin and Extremities.

141. Thirteenth Annual Pharmacy Practice Seminar, Coastal AHEC, Wilmington, NC. Invited speaker, September 13, 1998. Presentation Topic: Physical Assessment Primer. Workshop: Cardiac Physical Assessment.

142. Southern AHEC, Fayetteville, NC. Invited speaker, Diabetes Certificate Program, October 26, 1998. Topics: Physical Assessment of the Patient with Diabetes, and Therapeutic Approaches.

143. Charlotte AHEC, Charlotte, NC. Invited speaker, November 5, 1998. Topic: Clinical Reasoning Skills for Pharmacists.

144. North Carolina Association of Health Nurses Annual Meeting, Greensboro, NC. Invited speaker, February 27, 1999. Topic: Managing Diabetes in the Workplace.

145. 146th Annual Meeting, American Pharmaceutical Association, San Antonio, TX. Invited speaker, March 5, 1999. Workshop on Physical Assessment Skills for Pharmacists. Topic: Assessment of Skin and Extremities.

146. Charlotte AHEC, Charlotte, NC. Second Annual Carolina Anticoagulation ReSource Group Meeting. Invited speaker, March 12, 1999. Topic: Workshop on Reimbursement Issues in 1999.

147. Northwest AHEC, Winston-Salem, NC. Invited speaker, Diabetes Certificate Program, June 8, 1999. Topics: Physical Assessment of the Patient with Diabetes, and Therapeutic Approaches.

148. 20th Annual Meeting, American College of Clinical Pharmacy, Kansas City, MO. Invited speaker, October 23, 1999. Topic: How to Bill for Clinical Pharmacy Services.

149. Grand Rounds, Department of Family Medicine, Wake Medical Center, Raleigh, NC. Invited speaker, November 5, 1999. Topic: Approach to MRSA and VRE.

150. Wake AHEC, Raleigh, NC. Invited speaker, February 10, 2000. Topic: Reimbursement Issues for Pharmacists.

151. Minnesota Society of Health-System Pharmacists Annual Meeting, Rochester, MN. Keynote speaker, April 8, 2000. Topic: Practice Act Integration: Practical and Future Issues.

152. Eastern AHEC, Greenville, NC. Invited speaker at Diabetes Management: A Certificate Program, April 9, 2000. Topic: Physical Assessment of the Patient with Diabetes.

153. 35th Annual ASHP Midyear Clinical Meeting, Las Vegas, NV. Invited speaker, December 2, 2000. Topic: How to Bill for Clinical Pharmacy Services: How to Set Up Successful Inpatient Billing.

154. UNC School of Pharmacy/UNC Hospitals Department of Pharmacy Continuing Education Series, Chapel Hill, NC. Invited speaker, January 22, 2001. Topic: Role of the Pharmacist in Diabetes Mellitus Management.

155. Area L AHEC, Rocky Mount, NC. Invited speaker, February 27, 2001. Topic: Dermatologic Problems for Nurse Practitioners.

156. 2001 Spring Practice and Research Forum, American College of Clinical Pharmacy, Salt Lake City, UT. Invited speaker, April 21, 2001. Topic: How to Bill for Clinical Pharmacy Services - Inpatient Setting.

157. Sixteenth Annual Pharmacy Practice Seminar, Coastal AHEC, Wilmington, NC. Invited speaker, September 9, 2001. Topic: Cardiac Physical Assessment.

158. Diabetes Certificate Program, Greensboro AHEC, Greensboro, NC. Invited speaker, October 15, 2001. Topic: Type 2 Diabetes in Children/Maturity Onset Diabetes of Youth (MODY).

159. 2001 Annual Meeting, American College of Clinical Pharmacy, Tampa, FL. Invited speaker, October 22, 2001. Topic: The ACCP Advocacy Agenda: A One-Year Status Report.

160. North Carolina Governor's Academy for Prevention Professionals, Fort Fisher, NC. Invited speaker, March 17, 2002. Topic: Pharmacologic Aspects of Substance Abuse.

161. Grand Rounds, University of North Carolina Student Health Service, Chapel Hill, NC. Invited speaker, April 24, 2002. Topic: Evidence-Based Guidelines for Treatment of Migraine Headache.

162. 35th Society of Teachers of Family Medicine Annual Spring Conference, San Francisco, CA. Invited speaker, April 27, 2002. Topic: Sexual Adverse Effects of Medications.

163. Southern Regional AHEC, Dunn, NC. Invited speaker, September 12, 2002. Topic: Dermatology Update for Pharmacists.

164. Morbidity and Mortality Conference, Department of Medicine, University of North Carolina, Chapel Hill, NC. Invited speaker, June 24, 2003. Topic: Opioids, Substance Misuse & Chronic Pain: Interface of Clinical Medicine and Public Health.

165. Grand Rounds, Department of Pathology and Laboratory Medicine, School of Medicine, University of North Carolina, Chapel Hill, NC. Invited speaker, August 20, 2003. Topic: Opioid Misuse and Chronic Pain.

166. Grand Rounds, Department of Medicine, Fayetteville VA Medical Center/Fayetteville AHEC, Fayetteville, NC. Invited speaker, November 6, 2003. Topic: Chronic Non-Malignant Pain: Interface of Clinical Medicine, Mental Health & Public Health.

167. Grand Rounds, Department of Medicine, Moses H. Cone Medical Center/Greensboro AHEC, Greensboro, NC. Invited speaker, December 5, 2003. Topic: Chronic Non-Malignant Pain: Interface of Clinical Medicine, Mental Health & Public Health.

168. 28th Annual Internal Medicine Conference, Department of Medicine, School of Medicine, University of North Carolina, Chapel Hill, NC. Invited speaker, March 31, 2004. Topic: Chronic Non-Malignant Pain: Crossroads of Clinical Medicine, Mental Health, and Public Health.

169. Precourse Session on Chronic Pain Management, Society of General Internal Medicine, Chicago, IL. Invited speaker, May 12, 2004. Topic: Teaching Chronic Pain Management in Primary Care.

170. Triangle College of Clinical Pharmacy, Research Triangle Park, NC. Invited speaker, June 14, 2004. Topic: Putting the Clinical Pharmacist Practitioner Act to Work for You: Outpatient and Inpatient Perspectives.

171. Kappa Psi Pharmacotherapy Lecture, School of Pharmacy, University of North Carolina at Chapel Hill, Chapel Hill, NC. Invited speaker, November 16, 2004. Topic: Current Concepts in Pain Management.

172. Grand Rounds, Department of Medicine, School of Medicine, University of North Carolina, Chapel Hill, NC. Invited speaker, December 2, 2004. Topic: Chronic Pain, Depression & Substance Abuse: Experience in a General Internal Medicine Cohort.

173. End of Year Pharmacotherapy Update, Greensboro AHEC, Greensboro, NC. Invited speaker, December 18, 2004. Topic: Current Concepts in Pain Management.

174. Morbidity and Mortality Conference, Department of Family Medicine, School of Medicine, University of North Carolina, Chapel Hill, NC. Invited speaker, April 20, 2005. Topic: Management of Chronic Pain in Patients with a History of Mental Illness and Substance Abuse.

175. Annual Meeting, Society of General Internal Medicine, New Orleans, LA. Precourse Session: Chronic Pain and Mental Illness: Overcoming Barriers to Effective Management in the General Medicine Setting. Invited speaker, May 11, 2005. Topic: The Epidemiology and Impact of Chronic Pain and Mental Illness.

176. Sixteenth Annual Meeting, American Alliance of Cancer Pain Initiatives, St Louis, MO. Invited speaker, June 10, 2005. Topic: Pain Management and Substance Abuse; Controversies and Policies.

177. Northwest AHEC, Boone, NC. Invited speaker, June 21, 2005. Topic: Prescription Drug Abuse.

178. Wake County Pharmaceutical Association, Raleigh, NC. Invited speaker, September 20, 2005. Topic: Current Concepts in Pain Management.

179. UNC School of Nursing Annual Seminar, Chapel Hill, NC. Invited speaker, December 2, 2005. Topic: Update on the Management of Chronic Pain and Fibromyalgia.

180. North Carolina Governor's Academy for Prevention Professionals, Fort Fisher, NC. Invited speaker, January 13, 2006. Topic: Pharmacologic Aspects of Substance Abuse.

181. Division of General Medicine and Clinical Epidemiology Conference, School of Medicine, University of North Carolina, Chapel Hill, NC. Invited speaker, March 9, 2006. Topic: Clinical Utility and Interpretation of Urine Toxicological Screening.

182. Department of Medicine conference, School of Medicine, University of North Carolina, Chapel Hill, NC. Invited speaker, May 9, 2006. Topic: Management of Chronic Pain.

183. Charlotte AHEC, Charlotte, NC. Invited speaker, December 12, 2006. Topic: Billing for Pharmacy Services.

184. Mountain AHEC, Asheville, NC. Clinical Controversies. Invited speaker, May 6, 2007. Topic: Controversies in Chronic Pain Management.

185. North Carolina Chapter, Trigeminal Neuralgia Association, Raleigh, NC. Invited speaker, August 11, 2007. Topic: Issues with Medication Use in the Treatment of Trigeminal Neuralgia.

186. Advances and Controversies in Pain Management 2007, Eastern AHEC, Greenville, NC. Invited speaker, September 11, 2007. Topic: Update on Pain Medications.

187. Program on Opioid Risk Management: Understanding the Types of Opioid Abusers. Tufts Health Care Institute, Boston, MA. Invited speaker, September 27, 2007. Topic: Characteristics of the Patient Misuser of Prescription Opioids.

188. North Carolina Association of Pharmacists Annual Meeting, Research Triangle Park, NC. Invited speaker, October 28, 2007. Topic: Implementation of Medication Therapy Management Services.

189. Tenth Annual Procrastinators Marathon: Medication Therapy Management for Special Populations, Charlotte AHEC, Charlotte, NC. Invited speaker, December 10, 2007. Topic: Pain Management.

190. Mountain AHEC, Asheville, NC. New Guidelines for Lower Back Pain. Invited speaker, April 3, 2008. Topic: Pharmacologic Therapy for Low Back Pain.

191. Mountain AHEC, Asheville, NC. Updates in Pharmacotherapy: Pediatrics and Geriatrics. Invited speaker, May 4, 2008. Topic: Rashes that Itch and Itches that Rash: Pediatric Exanthems.

192. Greensboro AHEC, Chapel Hill, NC. HIV Care 2008: Antiretroviral Therapy, Hepatitis B/C, Addiction, and Adherence. Invited speaker, May 5, 2008. Topic: Pain Management in HIV Patients.

193. Southern AHEC, Fayetteville, NC. Invited speaker, October 2, 2008. Topic: Clinical Controversies in Managing Chronic Pain.

194. Twenty-Third Annual Pharmacy Practice Seminar, Coastal AHEC, Wilmington, NC. Invited speaker, October 18, 2008. Topic: Managing the Pain I Always Have: Overview of Chronic Pain.

195. Twenty-Third Annual Pharmacy Practice Seminar, Coastal AHEC, Wilmington, NC. Invited speaker, October 18, 2008. Topic: Managing the Pain in My Head: Treatment of Migraine.

196. Twenty-Fifth Annual Pharmacy Practice Seminar, Coastal AHEC, Wilmington, NC. Invited speaker, August 29, 2010. Topic: Prescription & OTC Drug Abuse: What You Don't Know Can Hurt You.

197. Eastern AHEC, Elizabeth City, NC. Invited speaker, October 5, 2010. Topic: Rashes that Itch and Itches that Rash: Pediatric Exanthems.

198. 2010 American College of Clinical Pharmacy Annual Meeting, Austin, TX. Invited speaker, October 19, 2010. Topic: Substance Misuse: Who, When, and Why?

199. Wake AHEC, Raleigh, NC. Invited speaker, November 5, 2010. Topic: Update on Pain Management: A Baker's Dozen of Pain.

200. 2010 ASHP Midyear Clinical Meeting, Anaheim, CA. Invited speaker and Moderator, December 6, 2010. Topic: Implementing Introductory and Advanced Pharmacy Practice Experiences in Health-System Practice Settings.

201. 2011 Annual Meeting, South Carolina Society of Health-System Pharmacists, Hilton Head, SC. Invited speaker, March 14, 2011. Topic: Update on Pain Management: A Baker's Dozen of Pain Issues.

202. UNC School of Nursing Annual Seminar, Chapel Hill, NC. Invited speaker, December 2, 2011. Topic: Pharmacology Update 2011: Update on the Management of Acute and Chronic Pain.

203. Capstone Series, UNC School of Medicine, Chapel Hill, NC. Invited speaker, April 24, 2012. Topic: Update on Pain Management.

204. UNC School of Nursing Annual Seminar, Chapel Hill, NC. Invited speaker, December 7, 2012. Topic: Pharmacology Update 2012: Update on the Management of Acute and Chronic Pain.

205. UNC School of Medicine Grand Rounds, Chapel Hill, NC. Invited speaker, March 7, 2013. Topic: Complications of Levamisole in Cocaine Abuse.

206. Second Annual Mountain Pharmacy Practice Seminar, Mountain AHEC, Asheville, NC. Invited speaker, May 4, 2013. Topic: Update on Chronic Pain Management: A Baker's Dozen of Pain Issues.

207. Seventh Annual Chapel Hill Drug Conference, University of North Carolina at Chapel Hill, Chapel Hill, NC. Invited speaker, May 17, 2013. Topic: Using Research to Advance Pharmacy Practice and Patient Care: Collaboration Among Pharmacists and Physicians To Improve Outcomes Now (CAPTION).

208. Durham-Orange Medical Society, Durham, NC. Invited speaker, June 12, 2013. Topic: Questions about Prescribing Opiates.

209. Council of Deans Networking Session, Annual Meeting, American Association of Colleges of Pharmacy, Chicago, IL. Invited speaker and moderator, July 16, 2013. Topic: Partnering with ACOs and Medical Homes.

210. 2013 Community Care of North Carolina Annual Pharmacy Home Project Meeting, Raleigh, NC. Invited speaker, October 22, 2013. Topic: Role of the Pharmacist in Chronic Pain Management.

211. 2013 Community Care of North Carolina Annual Pharmacy Home Project Meeting, Raleigh, NC. Invited speaker, October 23, 2013. Topic: Chronic Pain Management – Best Practice Use of Pharmacists and Other Ancillary Providers.

212. Kappa Psi Atlantic Province Meeting, Chapel Hill, NC. Invited speaker, January 25, 2014. Topic: Role of the Pharmacist in Chronic Pain Management.

213. UNC School of Medicine Grand Rounds, Chapel Hill, NC. Invited speaker, September 11, 2014. Topic: Morbidity & Mortality Conference: Millstones, Not Pearls: The Dilemma of Opioids in Patients with Chronic Pain.

214. Charlotte AHEC, Charlotte, NC. Invited speaker, December 3, 2014. Topic: Outpatient Pharmacy Perspectives in Chronic Pain Management.

215. UNC School of Nursing Annual Seminar, Chapel Hill, NC. Invited speaker, December 5, 2014. Topic: Pharmacology Update 2014: What's New with Pain Medications.

216. Joint Commission of Pharmacy Practitioners meeting, Alexandria, VA. Invited speaker, January 29, 2015. Topic: Changes in the Status of Pharmacist Billing in North Carolina.