

CURRICULUM VITAE

JOHN G. GUMS

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Present Position: 1996 - Present Professor of Pharmacy and Medicine
Associate Chair for Clinical Programs
Director of Clinical Research in
Family Medicine
Departments of Pharmacotherapy and
Translational Research and
Family Medicine
University of Florida

Past Positions: 1990-1995 Associate Professor of Pharmacy
and Medicine
University of Florida

1993-1994 Research Director of Women's
Medical and Diagnostic Center
and The Climacteric Center, Inc.
Gainesville, Florida

1985-1990 Assistant Professor of Pharmacy
and Medicine
University of Florida

EDUCATION:

<u>Date</u>	<u>Institution</u>	<u>Degree</u>
1984-1985	Medical University of South Carolina Charleston, South Carolina	Fellowship (Family Medicine)
1982-1984	Medical University of South Carolina Charleston, South Carolina	Doctor of Pharmacy
1978-1982	University of Wisconsin-Madison Madison, Wisconsin	Bachelor of Science & Pharmacy
1977-1978	University of Wisconsin-Eau Claire Eau Claire, Wisconsin	None

PHARMACY PRACTICE EXPERIENCE:

A. Internship/Clerkship:

1. Pharmacy Practice Intern: Oriental Pharmacy of Milwaukee (June 1982 - August 1982).
2. Externship/Out-Patient: University Hospital and Clinics; University of Wisconsin-Madison (January 1982 - May 1982).
3. Externship/In-Patient: University Hospital and Clinics; University of Wisconsin-Madison (October 1981 - December 1981).
4. Externship/In-Patient: Madison General Hospital (November 1981 - December 1981).

B. Clinical:

1. Doctor of Pharmacy Program: Committee Chairman (C. Wayne Weart, Pharm.D.)

C. Work Experience:

1. Charleston Cut-Rate Pharmacy: Relief pharmacist (February 1985 - June 1985).

D. Teaching:

1. Family Medicine Resident Clinical Pharmacology Rotation: University of Florida Family Practice Residency Program (July 1985 - present).
2. Clerkship Preceptor: University of Florida, College of Pharmacy (July 1985 - present).
3. Peptic Ulcer Disease: Physician Assistant Program, University of Florida (October 1985; October 1986; November 1987; November 1988; November 1989; January 1991; November 1991; November 1992; October 1993; October 1994).
4. Cirrhosis: Physician Assistant Program, University of Florida (October 1985; October 1986; November 1987; November 1988; November 1989).
5. Home Health Care: University of Florida, College of Pharmacy (December 1985; September 1986; January 1990; January 1991; January 1992; April 1993; April 1994).
6. Hypertension: University of Florida, College of Pharmacy. (February 1986; November 1986; November 1987; November 1988; January 1990; February 1991; January 1992; January 1993; January 1994; January 1995; January 1996; January 1997; January 1998, April 1999, April 2001).
7. Health Care Accessories: University of Florida - Course Coordinator (1985 - 1996).
8. Geriatric Rounds: College of Medicine, University of Florida (August 1986 - 1996).
9. Self-Monitoring Aids: University of Florida, College of Pharmacy, (October 1986; October 1987; October 1988; January 1990; January 1991; January 1992; January 1993; February 1994).
10. Pharmacogeriatrics: Geriatric Nursing I, College of Nursing, University of Florida (November 1988, September 1989; September 1990; October 1991; February 1994; February 1995, March 1999).
11. Basic Principles of Pharmacokinetics: Physician Assistant Program, University of Florida, PA Pharmacology (October 1990).
12. Antibiotic Case Studies: Pharmacology for Medical Students, BMS 5404 University of Florida, College of Medicine (April 1993; April 1994; April 1995; April 1996; April 1997, April 1998, April 2001).
13. Honors Seminar in Pharmaceutical Research: (PHA 3931), University of Florida (October 1995).
14. Pharmacotherapy I (PHA 5781). University of Florida, College of Pharmacy Course Coordinator (January 1988-2000).

15. Osteoporosis (PHA 5781). University of Florida, College of Pharmacy. (April 1999).
16. Oral Contraceptives (PHA 5783). University of Florida, College of Pharmacy. (April 1999, April 2001, April 2002, April, 2003, April 2004, April 2005, April 2006, April 2007, April 2008, April 2009).
17. Pharmacotherapy VI (PHA 5788). University of Florida, College of Pharmacy, Course Director (January 2001 – Present).

PROFESSIONAL ORGANIZATIONS:

1. Student American Pharmaceutical Association
From 1982 through 1989
2. Wisconsin Pharmaceutical Association
From 1980 through 1984
3. American Pharmaceutical Association
From 1981 through 1984
4. American Society of Magnesium Researchers (ASMR)
From 1989 through 1997.
5. Ambulatory Care Special Interest Group (ASHP)
From 1986 through 1988
6. Primary Care Special Practice Group (ASHP)
From 1988 through 1998
7. American Society of Health-System Pharmacists
From 1986 through the present
8. Rho Chi Honor Society
From 1983 through the present
9. Phi Lambda Sigma Pharmacy Leadership Society - Iota Chapter
From April 1994 through the present
10. American College of Clinical Pharmacy (ACCP) (full member)
From 1990 through the present
11. American College of Clinical Pharmacy (ACCP) - Primary Care PRN
From 1990 through the present

HONORS, AWARDS AND ACTIVITIES:

1. American Academy of Family Physicians Award for Outstanding Research Paper at the 26th Annual National Student Research Forum (April 1985).
2. American Medical Association Award for Outstanding Paper in Clinical Research at the 26th Annual National Student Research Forum (April 1985).
3. Member: Florida Drug Technical Review Panel (1987-2000).
4. Pharmaceutical Manufacturers Association Visiting Faculty Participant, Hoechst-Roussel Pharmaceutical, Inc. (August 1986).
5. Reviewer - Annals of Pharmacotherapy (1985-present).
6. Member: Annals of Pharmacotherapy Editorial Advisory Council - Family Practice/Ambulatory Care Section (1987-2003).
7. Chairman: Annals of Pharmacotherapy Editorial Advisory Council - Family Practice/Ambulatory Care Section (December 1988-1997).
8. Teacher of the Year - 1986 - University of Florida, Department of Family Medicine.
9. Teacher of the Year - 1990 - University of Florida, Department of Family Medicine
10. Chairman: Research Committee, Department of Community Health and Family Medicine, University of Florida (1988-92).
11. Member: Research Committee, Department of Community Health and Family Medicine, University of Florida (1992-2002).
12. Member: Health Center Student Conduct Standards Committee, University of Florida (1989-1996).
13. The Merck, Sharp, and Dome Award for Sustained Scholarly Contributions to Clinical Pharmacy - 1990.
14. Expert Consultant - Heart and Lung: The Journal of Critical Care (1992-present).
15. Member: State of Florida HRS Pharmacy Services Technical Review Panel (appointed by governor) 1993-1997.
16. Member: University of Florida Curriculum Task Force (1992-1995).
17. Member: University of Florida, Department of Pharmacy Practice Chairman Search Committee (1993-94).

18. Chairman: AHEC Pharmacist Search Committee (1994-95).
19. Member: Anticoagulation National Advisory Board, Dupont Pharmaceuticals (1996-2001).
20. American College Clinical Pharmacy (ACCP) Clinical Practice Award (1997).
21. American Heart Association - Fellow, Council for High Blood Pressure Research (1997).
22. National Magnesium Advisory Board (1999-2001).
23. Department of Health and Human Services – Secretary’s Primary Health Care Policy Fellowship (2002).
24. University of Florida, College of Pharmacy. Faculty Recognition Award (2003).
25. Member: Editorial Board: The Annals of Pharmacotherapy- Family Medicine Panel (2003–Present).
26. Member: Antibiotic Selection in Community-Acquired Pneumonia (ASCAP) Panel III (2002), IV (2003), and V (2004).
27. Fellow, American College of Clinical Pharmacy (ACCP) 2007.
28. Member, National Interdisciplinary Primary Care Practice Based Research Network (PBRN) 2008.
29. Editor; PharmaNote Monthly Pharmacy Newsletter. Department of Community Health and Family Medicine. A national clinical pharmacology newsletter published monthly for family physicians. State and Federally trademarked January 1999. (October 1985 - present).
30. University of Florida, College of Medicine – Exemplary Teacher Award 2008-2009.

PUBLICATIONS:

1. **Gums JG**, Weart CW: Diuretic-induced Hypokalemia in Uncomplicated Systolic Hypertension. *American Journal of Cardiology* 54:935, 1984.
2. **Gums JG**, Holly HP: A Case of Cefamandole-induced Knee Effusions. *Southern Medical Journal* 78(10):1268-1269, October 1985.
3. **Gums JG**, Carson DS, Hendrix G, Weart CW, Sarji N, Goodman B: The Effect of Magnesium and Potassium on Cardiac Function: The Role of Spironolactone. *J Pharm Techn* 6:10-14, 1990.

4. **Gums JG**, Carson DS: Root Medicine and Its Implications in Family Medicine. *Southern Medical Journal* 80(2):209-212, 1987.
5. **Gums JG**: The Clinical Significance of Magnesium: A Review. *Drug Intell Clin Pharm* 21(3):240-46, 1987.
6. Grauer K, **Gums JG**: Ventricular Arrhythmias, Part I: Prevalence, Significance and Indications for Treatment. *J of American Board of Family Practice* 1(2):135-142, 1988.
7. **Gums JG**, Robinson JD: Pharmacokinetic Monitoring in the Community Health Care Setting. *Drug Intell Clin Pharm* 21(5):422-426, 1987.
8. **Gums JG**, Lopez LM, Quay GP, Stein GH, McCarley D: Comparative Evaluation of Enalapril and Hydrochlorothiazide in Elderly Patients with Mild to Moderate Hypertension. *Drug Intell Clin Pharm* 22:680-684, 1988.
9. Montes G, **Gums JG**: Phenytoin Dosing in Obese Patients. *Drug Intell Clin Pharm* 22:708-710, 1988.
10. Montes G, Grauer K, **Gums JG**: Counseling the Patient with Ventricular Arrhythmias. *Med Aspects of Human Sexuality* 62-73, May 1989.
11. Curry S, **Gums JG**, Curry RW: Levothyroxine Sodium Tablets: Chemical Equivalency and Bioequivalency. *Drug Intell Clin Pharm* 22:589-591, 1988.
12. Grauer K, **Gums JG**: Ventricular Arrhythmias, Part II: Special Concerns in Evaluation. *J Amer Board of Family Practice* 1:201-206, 1988.
13. Grauer K, **Gums JG**: Ventricular Arrhythmias, Part III: Benefits and Risks of Antiarrhythmic Therapy. *J Amer Board of Family Practice* 1:255-266, 1988.
14. Grauer K, **Gums JG**: Ventricular Arrhythmias, Conclusion: New Agents, Additional Treatment Modalities, and Overall Approach to the Problem. *J Amer Board of Family Practice* 1:267-273, 1988.
15. Skluth HA, Grauer K, **Gums JG**: Newer Agents for the Treatment of Ventricular Arrhythmias. *Postgraduate Medicine* 85(6):137-153, 1989.
16. Marken PA, Weart CW, Carson DS, **Gums JG**, Lopes-Virella MF: Effects of Magnesium Oxide on the Lipid Profile of Healthy Volunteers. *Atherosclerosis* 77:37-42, 1989.
17. Skluth HA, **Gums JG**: Spironolactone: A Re-evaluation. *Drug Intell Clin Pharm: The Annals of Pharmacotherapy* 24:52-59, 1990.
18. Rey AM, **Gums JG**, Grauer K: Clinical Use of Newer Antimicrobial Agents. *Postgraduate Medicine* 88:64-81, 1990.

19. Krick S, **Gums JG**, Grauer K, Cooper G: Verapamil Over-Dose: A Case Report of Sustained-Release Verapamil. *Drug Intell Clinical Pharm* 24:705, 1990.
20. Rey AM, **Gums JG**: Administration of the ACEI Test Sublingually. *DICP: The Annals of Pharmacotherapy* (letter) 24:1116-1117, 1990.
21. Grauer K, Cavallaro D, **Gums JG**: New Developments in Cardiopulmonary Resuscitation. *Amer Fam Physician* 43(3):832-844, 1991.
22. Rey AM, Grauer K, **Gums JG**: Newer Antihypertensive Agents. *Postgraduate Med* 89(5):75-89, 1991.
23. Rey AM, **Gums JG**: Altered Absorption of Digoxin, Sustained-Release Quinidine, and Warfarin with Sulcralfate Administration. *DICP: The Annals of Pharmacotherapy* 25:745-6, 1991.
24. **Gums JG**: Description of Pharmacy Services in a Family Practice Setting. *FL J Hosp Pharm* 11(4):16-21, 1991.
25. **Gums JG**: New Drugs of 1991: Therapeutic and Comparative Categories. *FL Pharm Today* 56(4):6-12, 1992.
26. Grauer K, **Gums JG**: Oral Hypertensive Agent. *J Fam Pract* (letter) 34:397-98, 1992.
27. **Gums JG**: Use of ACE Inhibitors in the Treatment of Cardiovascular Disease. *Amer Pharmacy* 32(6):62-71, 1992.
28. Robinson JD, **Gums JG**: Pharmacokinetic Monitoring of Ambulatory Outpatients. *Pharmaguide* 5(2):1-5, 1992.
29. **Gums JG**, Curry RW, Montes de Oca G, Skluth H, Reynolds LR: Treatment of Type I Diabetes with a Combination of Glyburide and Insulin. *Ann Pharmacotherap* 26:757-62, 1992.
30. Levin AC, **Gums JG**, Grauer K: Update on the Treatment of Tuberculosis. *Postgraduate Med* 93(3):46-60, 1993.
31. Rust GS, Hatch R, **Gums JG**: Carisoprodol as a Drug of Abuse. *Arch Fam Med* 2:429-32, 1993.
32. Goode MA, **Gums JG**: Therapeutic Drug Monitoring in Ambulatory Care. *Ann Pharmacotherap* 27:502-5, 1993.
33. Goode MA, Grauer K, **Gums JG**: Infectious Vaginitis: Selecting Therapy and Preventing Recurrence. *Postgraduate Med* 96:85-98, 1994.
34. Altura BM, Brodsky MA, Elin RJ, **Gums JG**, Resnick LM, Seelig MS: Magnesium: Growing in Clinical Importance. *Patient Care* 28:130-150, 1994.

35. Levin AC, **Gums JG**: The Elderly Diabetic Patient with Hypertension: Guidelines for Prescribing Anti-hypertensive Therapy. *Amer J Geriatric Cardiology* 3(5):37-46, 1994.
36. Altura BM, Brodsky MA, Elin RJ, **Gums JG**, Resnick LM, Seelig MS: Magnesium Therapy: Coming of Age? *Patient Care* 28:79-94, 1994.
37. **Gums JG**: Empathy to Apathy: A Consequence of Higher Education? *Pharmacotherapy* 14(2):250-51, 1994.
38. Wilt VM, **Gums JG**, Notelovitz M: Oral Contraceptives and Coagulation Problems. *Fertility Control Reviews* 3(1):3-10, 1994.
39. **Gums JG**: Hormone-Drug Interactions. *Women's Health Digest* 1(1):50-53, 1995.
40. **Gums JG**: Recent Advances: Ambulatory Care. *Ann Pharmacotherapy* 29:716-718, 1995.
41. Wilt VM, **Gums JG**, Ahmed O, et. al.: Pharmacist Managed Anticoagulation: Outcome Analysis. *Pharmacotherapy* 15(6): 732-739, 1995.
42. Cauffield JS, **Gums JG**, Curry RW: Alpha-Blockers: A Reassessment of Their Role in Therapy. *Amer Fam Phy* 54(1): 263-270, 1996.
43. Cauffield JS, **Gums JG**, Curry RW: Alpha-Blockers, Diuretics, and Beta-Blockers for Hypertension (letter to editor). *Amer Fam Phys.* 55(7): 2432, 1997.
44. Wilt VM, **Gums JG**: Treatment of Isolated Low High Density Lipoprotein Cholesterol: A Review. *Ann Pharmacotherapy* 30: 89-97, 1997.
45. **Gums JG**: New Methods of Diagnosis and Treatment of Osteoporosis. *U.S. Pharmacist* 21(9): 83-93, 1996.
46. Cauffield JS, **Gums JG**, Grauer K: The Serum Digoxin Concentration: Ten Questions to Ask. *Amer Fam Phy* 56(2): 495-503, 1997.
47. **Gums JG**, Cardiovascular Disease Therapy: Innovations in Calcium Channel Blockers An Introductory to T-Channel Science. *Drug Topics* 141(14): 53-512, 1997.
48. Grauer K, Curry CL, **Gums JG**. Management of Uncontrolled Hypertension. *American Family Physician Continuing Education Monograph*, 1998 (May: 1-24).
49. Smith JD, Chang K, **Gums JG**: Possible Lansoprazole-Induced Eosinophilic Syndrome. *Annals of Pharmacotherapy*, 1998, 32:196-200.
50. Nguyen BN, **Gums JG**, Grauer K: Pharmacologic Management of Hypertension: Beyond Lowering the Blood Pressure. *Fam Pract. Recertif.*, 1998; 20(10):55-58, 61, 65-70, 73-76.
51. Thornhill, LP, Nayak RA, Berado, DH, **Gums, JG**, Russell, W, Segal R. An assessment

- of osteoporosis risk factors: A computer aided strategy to identify and evaluate patient risk factors using a clinic database. *Proceedings from the Third National Women's Health and Research Conference*, 1998:201-05.
52. **Gums, JG**, Yancey, RW, McKenna CA, Kubilis PS: A Randomized Prospective Study Measuring Outcomes Following Antibiotic-Therapy Intervention by a Multidisciplinary Consult Team. *Pharmacotherapy*, 1999, 19(12):1369-1377.
 53. Nguyen BN, **Gums JG**: Results of Pharmacy Intervention on Lipid Profiles of Hyperlipidemic Patients in a Family Practice Clinic Setting. *Pharmacotherapy*, 1998; 18(5): 1168-69.
 54. Lewis, JR, **Gums JG**, Dickensheets DL. Levofloxacin-induced Bilateral Achilles Tendonitis. *Ann Pharmacotherapy*, 1999, 33:792-5.
 55. Terpening C, **Gums JG**, Grauer K. Management of Essential Hypertension *Exp. Opin. Pharmacother*, 1999, 1:1-10.
 56. Niezabitowski L, **Gums JG**, Nguyen BN: A case report of Procardia XL-induced Bezoar One Year after Discontinuation. *Ann of Pharmacotherapy*, 2000:34:862-4.
 57. Smith JD, Terpening CM, Schmidt SD, **Gums JG**. Relief of Fibromyalgia Symptoms Following Discontinuation of Dietary Excitotoxins. *Ann of Pharmacotherapy*, 2001;35:702-6.
 58. **Gums, JG**. Current Issues and Trends in Antimicrobial Resistance. *AM J Health-Syst Pharm* (Guest Editor) 2002;59(3):S3-S19.
 59. **Gums, JG**. Assessing the Impact of Antimicrobial Resistance. *AM J Health Syst Pharm* 2002;59(3):S4-S6.
 60. **Gums, JG**. NCCLS Perspectives in Changing Susceptibility Breakpoints for Antimicrobial Drugs. *International Journal of Antimicrobial Agents* 22 (2003); S3-S13.
 61. Tovar, JM, **Gums, JG**. Tezosentan in the Treatment of Acute Heart Failure. *Annals of Pharmacotherapy* 2003;37:1877-83.
 62. Weitzel K, **Gums, JG**. A Post-Clerkship Pharmacotherapy Course. *AM J Pharm Ed* 2004;67(4):1-8.
 63. **Gums JG**. "Redefining 'Appropriate' Use of Antibiotics: The Necessity for Targeted Therapy." *Amer Fam Phys*, 2004;69 (January 1):35-37.
 64. Tovar JM, **Gums JG**. "New Monitoring Guidelines for COPD and Asthma" *Pharmacotherapy*, 2004;38(1):126-133.
 65. **Gums JG**. "Magnesium in Cardiovascular and Other Disorders" *AM J Health-Syst Pharm* 2004;61:1569-76.

66. Epstein BJ, **Gums JG**, Drlica K. "The Changing Face of Antibiotic Prescribing: The Mutant Selection Window" *Ann Pharmacother* 2004;38:1675-82.
67. **Gums JG**, Epstein BJ. "Update on Resistance Among Respiratory Tract Pathogens: Results of the Antimicrobial Resistance Management Program. *Hospital Pharmacy* 2004;39(11):1050-1057.
68. Epstein BJ, **Gums JG**. "Are ARB's ACE-Inhibitors Without the Cough?" *Today in Cardiology* 2004 (September):27-28.
69. Epstein BJ, **Gums JG**. "Angiotensin Receptor Blockers versus ACE Inhibitors: Prevention of Death and Myocardial Infarction in High-Risk Populations. *Ann Pharmacother* 2005;39:470-80.
70. Epstein BJ, **Gums JG**. "Can the Renin-Angiotensin System Protect Against Stroke? A Focus on Angiotensin II Receptor Blockers. *Pharmacother* 2005;25(4):531-539.
71. **Gums JG**, Epstein BJ. Update on Resistance Among Nosocomial Gram-Negative Pathogens to Extended- Spectrum Cephalosporins and Fluoroquinolones: Results of the Antimicrobial Resistance Management (ARM) Program. *Hospital Pharmacy* 2005;40:405-414.
72. **Gums JG**, Epstein BJ. "Fluoroquinolone- and Methicillin-Resistant Staphylococcus aureus: Insights from the Antimicrobial Resistance Management Program". *J Pharm Technol* 2005;21:123-8.
73. Epstein BJ, **Gums JG**. "Ongoing National Surveillance of Antimicrobial Resistance: www.armprogram.com. *Florida Pharm Today* 2005;July:14-19.
74. Epstein BJ, **Gums JG**. Optimal Pharmacological Therapy for Community-Acquired Pneumonia: The Role of Dual Antibiotic Therapy. *Drugs* 2005;65(14):1949-1971.
75. **Gums JG**, Epstein BJ, Molina E. Newer Agents for the Management of Overactive Bladder. *Amer Fam Phys* 2006;74(12):2061-68.
76. Dickerson LM, Kraus CK, Kuo GM, Weber CA, Bazalduo OV, Tovar JM, Humr AL, Ives TJ, **Gums JG**, Carter BL. Formation of a Primary Care Pharmacist Practice-Based Research Network. *AJHP*. 2007;64:2044-49.
77. Epstein B, **Gums J**, Turner P. Integrating Susceptibility Data from Two Surveillance Programs with Unique Methodological Techniques: The Antibigram Resistance Method or Isolate-Based Resistance Monitoring (ARMOR) Study Group. *Hospital Pharmacy*. 2007;42(4):337-344.

78. Epstein BJ, **Gums JG**, Molina E. Newer Agents for the Management of Overactive Bladder (Continuing Professional Development article) *SA Fam Pract* 2007;49(2):19-25.
79. Epstein BJ, **Gums JG**, Turner PJ, Feldgarden M, Hou W. Integrating Susceptibility Data from Two Surveillance Programs with Unique Methodological Techniques: The Antibigram Resistance Method or Isolate-Based Resistance Monitoring (ARMOR) Study Group. *Hospital Pharmacy*. 2007;42(5):435-446.
80. **Gums JG**, Boatwright DW, Totti N, Martinez M. Antimicrobial Resistance in 11 hospitals in Puerto Rico: Results of an Antimicrobial Resistance Management (A.R.M.) Program. *PRHSJ* 2007;26(3):181-189.
81. **Gums JG**, Boatwright DW, Camblin M, Halstead DC, Jones ME, Sanderson R. Differences Between Ceftriaxone and Cefotaxime: Microbiologic Inconsistencies. *Ann Pharmacotherapy* 2008;42:71-79
82. **Gums JG**, Pelletier EM, Blumentals WA. Oseltamirir and Influenza-related Complications. *Expert Opinion on Pharmacotherapy* 2008;9(2):1-11
83. **Gums JG**, Anderson S. Ceftobiprole: an Extended-Spectrum Anti-Methicillin-Resistant Staphylococcus aureus Cephalosporin. *The Annals of Pharmacotherapy* 2008;42:806-16.
84. Johnson JA, Boerwinkle E, Zineh I, Chapman AB, Bailey K, Cooper-DeHoff RM, **Gums JG**, Curry RW, Gong Y, Beitelshes AL, Schwartz G, Turner ST. Pharmacogenomics of Antihypertensive Drugs: Rationale and Design of the Pharmacogenomic Evaluation of Antihypertensive Responses (PEAR) Study, *Am Heart J* 2009;157:442-9.
85. Smith SM, **Gums JG**, Johnson JA, Cooper-DeHoff RM, Chapman AB, Turner ST, Boerwinkle E, Gong Y, Bailey KR, Schwartz G. Thiazide-Induced Hyperglycemia is not Related to Hypokalemia: Results from the Pharmacogenomic Evaluation of Antihypertensive Response (PEAR) Study. *Pharmacotherapy* 2009 (In Press).
86. Johnson JA, Gong Y, Bailey KR, Cooper-DeHoff RM, Chapman AB, Turner ST, Schwartz G, Campbell K, Schmidt S, Beitelshes AL, Boerwinkle E, **Gums JG**. Combination Antihypertensive Therapy with Hydrochlorothiazide and Atenolel: Effect of Initiation Order. *J. Clin. Pharmacol. Therap.* 2009 (In Press).
87. Cooper-DeHoff RM, Wen S, Beitelshes AL, Zineh I, **Gums JG**, Turner ST, Gong Y, Hall K, Parekh V, Chapman AB, Boerwinkle E, Johnson JA. Impact of Abdominal Obesity on Incidence of Adverse Metabolic Effects Associated with Antihypertensive Medications. *Diabetes Care* 2009 (Submitted).
88. Beitelshes AL, Gong Y, Bailey KR, Turner ST, Chapman AB, Schwartz GL, **Gums JG**, Boerwinkle E, Johnson JA. Comparison of Office, Ambulatory, and Home Blood Pressure Antihypertensive Response to Atenolol and Hydrochlorothiazide. *J. Clin. Hypertension* 2009 (Submitted).
89. Smith SM, **Gums JG**. Fexofenadine: Biochemical, Pharmacokinetic, and

Pharmacodynamic Properties and its Unique Role in Allergic Disorders. *Exp Opin. Drug Metab. Toxicol.* 2009 (In Press).

90. Smith SM, **Gums JG**. Antivirals for Influenza: Strategies for Use in Pediatrics. *Pediatric Drugs* 2009 (In Press).

PUBLICATIONS FOR CONTINUING EDUCATION:

1. **Gums JG**: Treatment of Angina: Focus on Nitrates, Beta-Blockers, and Calcium Modulators. Pharmacy Power Pack, May 1990.
2. **Gums JG**: Electrolyte Disorders: Focus on Potassium and Magnesium. Pharmacy Power Pack, July 1990.
3. **Gums JG**: Pharmacology and Pharmacokinetics of the Organic Nitrates: An Overview. Pharmacy Power Pack, January 1991.
4. **Gums JG**: Electrolyte Disorders in Congestive Heart Failure: Focus on Potassium and Magnesium. Pharmacy Power Pack, March 1991.
5. **Gums JG**: Potassium Supplementation: How To Do It. Pharmacy Power Pack, October 1991.
6. **Gums JG**: Case Studies in Potassium Replacement Therapy. A series of continuing education videos: Converting IV to Oral Potassium.
7. **Gums JG**: Case Studies in Potassium Replacement Therapy. A series of continuing education videos: Managing Hypokalemia in the Elderly.
8. **Gums JG**: Case Studies in Potassium Replacement Therapy. A series of continuing education videos: Managing Hypokalemia in Congestive Heart Failure.
9. **Gums JG**: Angina Pectoris: A Review of the Pathophysiology and Medical Management: Part I: Pathophysiology. Pharmacy Power Pack, October 1992.
10. **Gums JG**: Treatment of Angina Pectoris: Focus on Isosorbide-5-Mononitrate. Pharmacy Power Pack, October 1992
11. **Gums JG**: Treatment of Refractory Potassium Repletion. Pharmacy Power Pack, October 1992.
12. **Gums JG**: Ventricular Arrhythmias: The Role of Potassium and Magnesium Supplementation. Pharmacy Power Pack, September 1992.
13. **Gums JG**: Angina Pectoris: A Review of the Pathophysiology and Medical Management: Part II: Medical Management. Pharmacy Power Pack, November 1992.
14. **Gums JG**: Ambulatory Care: Successful Models in Pharmaceutical Care. Continuing Education Video, March 1995. Sponsored by CSHP, PSHP, FSHP, and ASHP.

- Nationally distributed by Marion-Merrell Dow.
15. **Gums JG:** C.A.R.E. - Continuing Allergy Respiratory Education: Impact of Allergies and Antihistamines on Performance Skills. DesignWrite, June 1997.
 16. **Gums JG:** C.A.R.E.-Continuing Allergy Respiratory Education: Impact of Allergies and Antihistamines on Performance Skills, 1998.
 17. **Gums JG:** Propecia: APHA New Therapeutics Bulletin, 1998, Continuing Education Series.
 18. Nguyen, BN, **Gums JG:** Therapeutic Advances in Hypertension. Pharmacy PowerPak, October 1998.
 19. Smith J, **Gums JG:** From Residency to Reality. AAFP CE Monograph Series. Kansas City, Missouri (December 1998).
 20. **Gums JG**, Wolf AM: Redefining Obesity as a Disease. Applied Clinical Communications 1999:1-18.
 21. Weart CW, Bosso JA, **Gums JG**. Adverse Consequences of Inappropriate Drug Substitution. Skin and Aging. (supplement) 1999:3-15.
 22. **Gums JG**, Wolf AM: Obesity Treatments: A Pharmacologic Update Applied Clinical Communications, 2000:3-28.

BOOK CHAPTERS, REVIEWS AND CONTRIBUTIONS:

1. **Gums JG:** Disorders of the Adrenal Gland in Pharmacotherapy: A Pathophysiological Approach, 1st ed., 1989, Elsevier Science Publishing Co., New York, New York; pg. 822-834.
2. Grauer K, Cavallaro D: ACLS: Certification Preparation and a Comprehensive Review, 2nd ed., 1987 - acknowledgment for text contribution. 4th ed., 1996 - acknowledgment for text contribution.
3. **Gums JG:** Book Reviews: J Pharmacy Technology, Vol. 3, pp 214, 1987.
 - (1) Understanding Prescription Drugs, 1987.
 - (2) Professional Guide to Drugs, 1983.
 - (3) Instant Drug Index, 1987.
4. **Gums JG:** Disorders of the Adrenal Gland in Pharmacotherapy: A Pathophysiologic Approach, 2nd ed., 1992, Elsevier Science Publishing Co., New York, New York; pg. 1168-1182.
5. **Gums JG:** Book Review: Annals of Pharmacotherapy, Vol. 26, pp 130-131, 1992. (A Basic Formulary for General Practice, 2nd edition.)

6. Grauer K, **Gums J**, Cavallaro D: Essential Drugs and Treatment Modalities in ACLS: Certification Preparation, 3rd ed., 1993, Mosby Year Book, Inc., pg. 43-71.
7. Grauer K, **Gums J**, Cavallaro D. A Compendium of Additional Drugs Used in Emergency Cardiac Care in ACLS: A Comprehensive Review, 3rd ed., 1993, Mosby Year Book, Inc., pg. 471-488.
8. Hatch R, Grauer K, **Gums JG**: Cardiac Arrhythmias in Family Medicine: Principles and Practice, 4th ed., (ed. Taylor RB) Springer-Verlag, New York, New York; pp 601-616, 1993.
9. **Gums JG**, Wilt VM: Disorders of the Adrenal Gland in Pharmacotherapy: A Pathophysiologic Approach, 3rd ed., Elsevier Science Publishing Co., New York, New York, 1996; pg 1547-63.
10. **Gums JG**, Wilt VM: Adrenal Disorders in Endocrinology Module: Pharmacotherapy Self-Assessment Program (PSAP II), 2nd ed., American College of Clinical Pharmacy, Kansas City, MO, 1996: pp1-27.
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16. Terpening C, **Gums JG**. Cushing's Syndrome: When One Gland Affects Another (Level (II). Pharmacotherapy CaseBook: A Patient-Focused Approach. 5th Ed., McGraw-Hill Companies. New York, NY, 2002:224-226.
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18. **Gums JG**. A Practical Guide to Pharmaceutical Care 2nd Edition Annals of Pharmacotherapy 2003;37:1534-35 (Book Review).
19. **Gums JG**, Tovar JM. “Hypothalamic, Pituitary, and Adrenal Disorders” Drug-Induced Diseases: Prevention, Detection and Management., ASHP, Tisdale and Miller, Bethesda, Maryland, 2005;Chapter 30 (Hypothalamic, Pituitary, and Adrenal Disorders):393-408.
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21. Terpening C, **Gums JG**. Cushing’s Syndrome: When One Gland Affects Another (Level (II). Pharmacotherapy CaseBook: A Patient-Focused Approach. 6th Ed., McGraw-Hill Companies. New York, NY, 2005:225-226.
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23. Terpening C, **Gums JG**. Cushing’s Syndrome: When One Gland Affects Another (Level II) in: Schwinghammer TL, Koehler JM, eds. Pharmacotherapy Casebook: A Patient-Focused Approach. 7th ed. (ISBN 9780071608923) New York: McGraw-Hill, 2008.
24. **Gums JG**, Anderson S “Adrenal Gland Disorders” in Pharmacotherapy: A Pathophysiologic Approach. 7th ed. McGraw-Hill, New York (Chapter 79) 2008.
25. **Gums JG**, Anderson S. “Hypothalamic, Pituitary and Adrenal Disorders” (Chapter 33) in Drug-Induced Diseases: Prevention, Detection and Management., 2nd Ed, ASHP, Tisdale and Miller, Bethesda, Maryland, 2008 (in Press)
26. **Gums JG**, Smith SM, Hall KL. “Osteoarthritis” in Pharmacotherapy Principles and Practice, 2nd ed., Chisholm-Burns MA, Schwinghammer TL, Wells BG, Malone PM, Kolesar JM, DiPiro JT. McGraw-Hill Companies, New York, NY, 2010 (In Press)

ABSTRACTS/POSTERS:

1. McKenna CA, **Gums JG**: Antimicrobial Intervention Program. *Pharmacotherapy Abstract*, AACP 1996 Winter Practice and Research Forum, Monterey, California, (February 1996).
2. Yancy R, McKenna C, **Gums JG**, Kubilis P: Length of Stay and Mortality Effects of a Multidisciplinary Antimicrobial Therapy Teams (abstract): Infectious Disease Society of America, 35th Annual Meeting, San Francisco, Ca 1997.
3. **Gums JG**. Antimicrobial Susceptibility Trends from 1990-2000: Preliminary results of the Antimicrobial Resistance Management (ARM) Program. (abstract) *Pharmacotherapy* 2001;21(10):1300-01.

4. **Gums JG.** Antimicrobial Susceptibility Trends from 1990-2000: Preliminary results of the Antimicrobial Resistance Management (ARM) Program. (abstract). ACCP 2001 Annual Meeting, Tampa, Florida (October 2001).
5. **Gums, JG.** National and Regional Susceptibility Patterns of Staphylococcus aureus and Methicillin-Sensitive and Methicillin-Resistant Staphylococci: Results of the Antimicrobial Resistance Management (ARM) Program. (Abstract). CDC: International Conference on Emerging Infectious Disease, Atlanta, GA (March 2002)
6. **Gums, JG.** Similarities and differences of Escherichia coli and Klebsiella pneumoniae susceptibility to cephalosporins and fluoroquinolones from 1987-2001: results of the Antimicrobial Resistance Management (ARM) Program. (Abstract). ACCP. 2002 Spring Practice and Research Forum and Updates in Therapeutics: Savannah, GA (April 2002).
7. **Gums, JG.** National and regional susceptibility of gram-negative organisms to extended-spectrum cephalosporin and fluoroquinolone antibiotics: results of the Antimicrobial Resistance Management (ARM) Program. (Abstract) 12th European Congress of Clinical Microbiology and Infectious Disease, Milan, Italy (April 2002).
8. **Gums, JG.** Streptococcus Pneumoniae Susceptibility from 1995-2000: Results of the Antimicrobial Resistance Management (ARM) Program. (Abstract) American Thoracic Society (ATS) 2002 Meeting, Atlanta, GA (May 2002).
9. **Gums, JG.** Streptococcus Pneumoniae Susceptibility from 1995-2001: Results of the Antimicrobial Resistance Management (ARM) Program (Abstract) ACCP 2002 Annual Meeting, Albuquerque, New Mexico, Pharmacotherapy 2002, 22(10):1361.
10. University of Florida – College of Medicine, Celebration of Research (Posters)
 - a. **Gums, JG.** Antimicrobial Susceptibility Trends from 1990-2000: Preliminary Results of the Antimicrobial Resistance Management (ARM) Program (April 2002)
 - b. **Gums, JG.** National and Regional Susceptibility Patterns of Staphylococcus Aureus and Methicillin-Sensitive and Methicillin – Resistant Staphylococci: Results of the Antimicrobial Resistance Management (ARM) Program. (April 2002).
 - c. **Gums, JG.** Similarities and Differences of Escherichia coli and Klebsiella pneumoniae susceptibility to Cephalosporins and Fluoroquinolones from 1987-2001: Results of the Antimicrobial Resistance Management (ARM) Program. (April 2002)
 - d. **Gums, JG.** Streptococcus Pneumoniae Susceptibility from 1995-2001: Results of the Antimicrobial Resistance Management (ARM) Program. (April 2003)
 - e. **Gums, JG.** National and regional susceptibility of gram-negative organisms to extended-spectrum cephalosporin and fluoroquinolone antibiotics: results of the Antimicrobial Resistance Management (ARM) Program. (April 2003)

- f. **Gums, JG.** National and Regional Susceptibility of Streptococcus pneumoniae and Gram-Negative Isolates to Third-Generation Cephalosporin Antibiotics, 1994-2001: Results of the Antimicrobial Resistance Management (ARM) Program. (April 2004)
 - g. **Gums JG.** Resistance of Gram-Negative Organisms to Extended-Spectrum Cephalosporin and Fluoroquinolone Antibiotics, 1990-2002: Results of the Antimicrobial Resistance Management (ARM) Program. (April 2004)
 - h. **Gums JG.** Resistance of Nosocomial Pathogens to Fluoroquinolones, 1995-2003: Results of the Antimicrobial Resistance Management (ARM) Program. (April 2005)
 - i. **Gums JG.** www.armprogram.com- Online US Surveillance of Antimicrobial Resistance. (April 2005)
 - j. **Gums JG.** Integrating Susceptibility Data From Two Surveillance Programs with Unique Methodological Techniques: The Antibiogram Method or Isolate-Based Resistance Monitoring (ARMOR) Study (April 2006).
 - k. **Gums JG.** Heterogenous Variations in Antimicrobial Resistance within The State of Florida: Results of the Antimicrobial Resistance Management (ARM) Program (April 2006).
 - l. **Gums JG.** Regional Heterogeneity of Nosocomial Pathogen Resistance to Fluoroquinolones: Results of the Antimicrobial Resistance Management (A.R.M.) Program (March 2007).
 - m. **Gums JG.** Antibiotic Utilization and Resistance Trends within an Institution: Results of the Antimicrobial Resistance Management (ARM) Program. (April 2008)
 - n. **Gums JG.** Identifying Heterogenous Gram-Negative Resistance to Imipenem in Florida Hospitals: Results of the Antimicrobial Resistance Management (ARM) Program. (April 2008)
 - o. **Gums JG.** Outcomes Associated with the Implementation of a National Antibiotic Surveillance Program (April 2009)
 - p. **Gums JG.** Correlation of Thiazide-Induced Potassium Changes with Glucose Changes (April 2009).
11. **Gums JG.** Increased *E Faecium* Resistance to Vancomycin Correlates with Declining Susceptibility to Antianaerobic Antibiotics Among Gram-Negative Organisms: Results of the Antimicrobial Resistance Management (ARM) Program. (Abstract). IDSA 41st Annual Meeting in San Diego, CA (April 2003).
 12. **Gums, JG.** Stretpcoccus Pneumoniae Susceptibility to Cefotaxime and Ceftriaxone, 1994-2001: Results of the Antimicrobial Resistance Management (ARM) Program (Abstract) American Thoracic Society Annual Meeting, Seattle, Washington, (May 2003).
 13. **Gums, JG.** Increased Fluoroquinolone Resistance to Gram-Negative and Staphylococcus aureus Isolates Between 1994-2001: Results of the Antimicrobial Resistance Management (ARM) Program (Abstract) National Foundation for Infectious Disease Annual Meeting, Bethesda, Maryland (June 2003).

14. **Gums, JG.** The Changing Face of Empiric Therapy in Skin and Skin Structure Infections: *Staphylococcus aureus*. Results of the Antimicrobial Resistance Management Program. (Abstract) ACEP Annual Meeting, Boston, MA (October 2003). *Annals Emergency Medicine* 2003;42(4):S99-100.
15. **Gums, JG.** Update on Resistance Among Respiratory Tract Infection Pathogens: Results of the Antimicrobial Resistance Management (ARM) Program. (Abstract) CHEST Annual Meeting, Orlando, Florida (October, 2003).
16. **Gums, JG.** National and Regional Susceptibility of *Streptococcus pneumoniae* and Gram-Negative Isolates to Third-Generation Cephalosporin Antibiotics, 1994-2001: Results of the Antimicrobial Resistance Management (ARM) Program. (Abstract). ACCP Fall Meeting, Atlanta, GA (November, 2003). *Pharmacotherapy* 2003;23(10):1356.
17. **Gums JG.** Resistance of Gram-Negative Organisms to Extended-Spectrum Cephalosporin and Fluoroquinolone Antibiotics, 1990-2002: Results of the Antimicrobial Resistance Management (ARM) Program. ASHP Annual Meeting, New Orleans, LA. (December 2003).
18. **Gums JG.** Nosocomial Respiratory Pathogens: Trends in Antibiotic Resistance, 1995-2003. Results of the Antimicrobial Resistance Management (ARM) Program. *CHEST* 2004;126(4):7175.
19. **Gums JG.** Resistance of Nosocomial Pathogens to Fluoroquinolones, 1995-2003: Results of the Antimicrobial Resistance Management (ARM) Program. Infectious Disease Society of America (IDSA) Annual Meeting, Boston, MA (October 2004)
20. **Gums JG.** www.armprogram.com- Online US surveillance of Antimicrobial Resistance. Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC) Washington DC (November 2004)
21. **Gums JG.** Ongoing National Surveillance of Antimicrobial Resistance: www.armprogram.com. American Society of Health-System Pharmacists (ASHP) Mid-Year Clinical Meeting, Orlando, FL (December 2004)
22. **Gums JG.** www.armprogram.com- Online US surveillance of antimicrobial resistance. First Coast Infectious Disease/Clinical Microbiology Symposium, St. Augustine, FL (February 2005)
23. **Gums JG.** www.armprogram.com- Online US surveillance of Antimicrobial Resistance. Interscience Conference on Antimicrobial Agents and Chemotherapy, Get Smart Conference, Atlanta, GA (April 2005)
24. **Gums JG.** Resistance of Nosocomial Pathogens to Fluoroquinolones, 1995-2003: Results of the Antimicrobial Resistance Management (ARM) Program. Making a Difference in Infectious Diseases (MAD-ID), Carefree, AZ (May 2005)
25. **Gums JG.** Comparison of National and Regional Nonsusceptibilities of *Staphylococcus*

- aureus, Escherichia coli, and Pseudomonas aeruginosa to Community Prescribed Antibiotics: Results of the Antimicrobial Resistance Management (ARM) Program, 1997-2004. Infectious Disease Society of America (IDSA) 43rd Annual Meeting, San Francisco, California (September 2005)
26. **Gums JG.** Correlation between Antibiotic Utilization and Resistance Rates within a Hospital System: Results of the Antimicrobial Resistance Management (ARM) Program (#462), American College of Clinical Pharmacy (ACCP) Annual Meeting, San Francisco, CA (October 2005)
27. **Gums JG.** Comparison of National, Regional, and State Susceptibilities of Streptococcus Pneumonia Isolates to Clindamycin and Erythromycin: Results of the Antimicrobial Resistance Management (ARM) Program, American College of Chest Physicians (ACCP) Annual Meeting, Montreal, Quebec, Canada (November 2005)
28. **Gums JG.** Heterogenous Variations in Antimicrobial Resistance within the State of Florida: Results of the Antimicrobial Resistance Management (ARM) Program (#670), American Society of Health-System Pharmacist (ASHP) Annual Clinical Midyear Meeting, Las Vegas, NV (December 2005)
29. **Gums JG.** Antimicrobial Resistance documented at www.armprogram.com. American Society for Microbiology 45th Annual ICAAC Meeting, Washington DC (December 2005)
30. Epstein B, **Gums J**, Turner P. Integrating Susceptibility Data from Two Surveillances Programs with Unique Methodological Techniques: The Antibigram Resistance Method or Isolate-Based Resistance Monitoring (ARMOR) Study (#P1381) 16th European Congress of Clinical Microbiology and Infectious Disease (ECCMID), Nice, France (April 2006).
31. Epstein B, **Gums J**, Turner P, Anderson S. Integrating Susceptibility Data from Two Surveillance Programs with Unique Methodological Techniques: The Antibigram Resistance Method or Isolate-Based Resistance Monitoring (ARMOR) Study. (#06-08) MAD-ID Conference, Orlando, Florida (May 2006).
32. **Gums J.** Validating the Accuracy of Cumulative Susceptibility Testing Studies in Antibiotic Resistance: The Antibigram Resistance Method or Isolate-Based Resistance Monitoring (ARMOR) Study (K-1422) 46th Annual ICAAC Meeting. San Francisco, CA (September 2006).
33. **Gums J.** Utilizing Intrastate Surveillance to Determine Antimicrobial Resistance Patterns for Staphylococcus aureus: Results from the Florida Cohort of the Antimicrobial Resistance Management (ARM) Program. (K-0795). 46th Annual ICAAC Meeting. San Francisco, CA (September 2006).
34. **Gums J**, Boatwright W, Totti N, Martinez M. Antimicrobial Resistance Among Hospitals in Puerto Rico: Results of the Antimicrobial Resistance Management (ARM) Program (#215) ACCP Annual Meeting, St. Louis, MO (October 2006).

35. **Gums J.** Trends in Gram-Negative Isolate Resistance to Imipenem: Results of the Antimicrobial Resistance Management (ARM) Program (#042). 44th Annual IDSA meeting. Toronto, Ontario (October 2006).
36. **Gums J.** Antibiotic Susceptibility of Pseudomonas aeruginosa and Staphylococcus aureus Isolates from US Hospital Intensive Care Units (ICU's): Result of the Antimicrobial Resistance Management (ARM) Program, 1997-2005 (C#3667) 72nd Annual American College of Chest Physicians (CHEST). Salt Lake City, UT (October 2006).
37. Epstein B, **Gums J**, Turner P. Changes in Antimicrobial Susceptibility of Escherichia coli and Klebsiella pneumoniae Documented by Antibiograms and Isolates: The Antibiogram Resistance Method or Isolate-Based Resistance Monitoring (ARMOR) Study (#127). ACCP Annual Meeting. St. Louis, MO (October 2006).
38. Anderson S, **Gums JG**. Heterogeneous Variations in Antimicrobial Resistance to Escherichia coli within the State of Florida: Results From the Antimicrobial Resistance Management (A.R.M.) Program. FSHP Annual Meeting, Orlando, FL (August 2007)
39. Anderson S, **Gums JG**, Krishnaswamy A, Ng V. Antibiotic Utilization and Resistance Trends within an Institution: Results of the Antimicrobial Resistance Management (A.R.M.) Program (#K-2142) 47th Annual ICAAC Meeting, Chicago, IL (September 2007)
40. **Gums JG**, Ranka S, Jermaine CM. Significant Heterogeneity Found in Resistance Trends Among Hospitals: Results of the Antimicrobial Resistance Management (A.R.M.) Program (#K-2161) 47th Annual ICAAC Meeting, Chicago, IL (September 2007).
41. **Gums JG**, Pelletier EM, Blumentals WA. Impact of Oseltamirir for the Treatmetn of Influenza on Secondary Complications and Healthcare Costs. (#108) ACCP Annual Meeting, Denver, CO (October 2007).
42. Anderson S, **Gums JG**. Heterogeneous Variations in Gram-Negative Pathogen Susceptibility to Fluoroquinolones within the State of Florida: Results of the Antimicrobial Resistance Management (A.R.M.) Program (#115) ACCP Annual Meeting, Denver, CO (October 2007)
43. **Gums JG**. Trends in Antimicrobial Resistance Documented at www.armprogram.com (#195) ACCP Annual Meeting, Denver, CO (October 2007).
44. **Gums JG**. Utilizing Intrastate Surveillance to Determine Antimicrobial Resistance Patterns for Staphylococcus aureus: Results from the Florida Cohort of the Antimicrobial Resistance Management (A.R.M.) Program (#196E) ACCP Annual Meeting, Denver, CO (October 2007).
45. Anderson S, **Gums JG**, Ng V. Institutional Resistance Trends: Results of the Antimicrobial Resistance Management (A.R.M.) Program (#306) CHEST 2007. Chicago, IL (October 2007).

46. **Gums JG**. National, Regional, and Local Trends in Streptococcus Pneumonia Resistance: Results of the Antimicrobial Resistance Management (A.R.M.) Program. CHEST 2007. Chicago, IL (October 2007).
47. **Gums JG**, Ranka S, Jermaine CM. Can a Hospital's Personality Help Define the Utility of Antimicrobial Stewardship? IDSA 45th Annual Meeting, San Diego, CA (October 2007).
48. **Gums JG**. Identifying Heterogeneous Gram-Negative Isolate Resistance to Imipenem in Florida Hospitals: Results of the Antimicrobial Resistance Management (A.R.M.) Program (#106) ASHP Midyear Clinical Meeting, Las Vegas, NV (December 2007).
49. Song, X, Jermaine C, Sanjay R, **Gums JG**. A Bayesian Mixture Model with Linear Regression Mixing Proportions (#340). The 14th ACM SIGDD International Conference on Knowledge Discovery & Data Mining, Las Vegas, NV (August 2008)
50. Smith SM, **Gums JG**, Anderson SD, Johnson J, DeHoff R. Correlation of Thiazide-Induced Potassium Changes with Glucose Changes (#81). ACCP Annual Meeting, Louisville, KY (October 2008)
51. Smith SM, **Gums JG**, Jermaine C, Ranka S. The Implications of Phenotypic Clustering of Antimicrobial Resistance Patterns on Predicting Future Trends (#2716). 48th Annual ICAAC/46th Annual IDSA Meeting, Washington DC (October 2008)
52. Smith SM, **Gums JG**, Ng V. Outcomes Associated with the Implementation of a National Antibiotic Surveillance Program (#2611) 48th Annual ICAAC/46th Annual IDSA Meeting, Washington DC. (October 2008)
53. Smith SM, **Gums JG**, Anderson SD, Johnson JA, Cooper-DeHoff RM. Correlation of Thiazide-Induced Potassium Changes with Glucose Changes (#8E) 2009 ACCP/ESCP International Congress on Clinical Pharmacy, Orlando, FL (April 2009)
54. Smith SM, **Gums JG**, Ng V. Outcomes Associated with the Implementation of a National Antibiotic Surveillance Program (#64E) 2009 ACCP/ESCP International Congress on Clinical Pharmacy, Orlando, FL (April 2009)
55. Smith SM, **Gums JG**, Jermaine C, Rank S. Implications of Phenotypic Clustering on Predicting Future Trends of Antimicrobial Resistance Patterns (#63E) 2009 ACCP/ESCP International Congress on Clinical Pharmacy, Orlando, FL (April 2009)
56. Rosenzweig J, **Gums JG**. Influenzae Prevention and Management on College Campuses. 2009 American College Health Association Annual Meeting, San Francisco, CA (May 2009)
57. Wu M, Jermaine C, Ranka S, **Gums JG**. A LRT Framework for Fast Spatial Anomaly Detection. 15th Annual ACM SIGKDD Conference on Knowledge Discovery and Data Mining, Paris, France (June 2009)

PRESENTATIONS:

1. Pharmacokinetic Monitoring in the Community Health Care Setting. Clinical Pharmacokinetics Symposium, Gainesville, Florida. Sponsored by the University of Florida (April 1986; May 1987; May 1988; May 1989; April 1990).
2. Pharmacist Prescribing Law. 44th Annual ASHP Meeting, Washington D.C. (June 1987).
3. Pharmacogeriatrics. Presented to:
 - a. Spring Family Medicine Review, Orlando, Florida (April 1988).
 - b. Pharmacology Beach Conference, Daytona Beach, Florida (March 1992).
 - c. Lakeshore Hospital Housestaff, Lake City, Florida (May 1992).
 - d. University of Florida, College of Nursing - NGR 6250 (February 1994).
 - e. Family Practice Review, Orlando, Florida (March 1994).
 - f. Florida Academy Family Physicians Annual Meeting, Tarpon Springs, Florida (May 1997)
4. Electrolyte Disorders in Cardiovascular Disease. Presented to:
 - a. Marion County Pharmaceutical Association, Ocala, Florida (February 1988).
 - b. Lakeshore Hospital Staff, Lake City, Florida (April 1988).
 - c. Tampa Veterans Administration Staff, Tampa, Florida (April 1988).
 - d. Tampa General Hospital Staff, Tampa, Florida (April 1988).
 - e. Broward County Pharmaceutical Association, Miami, Florida (May 1988).
 - f. University of Kentucky, College of Pharmacy, Lexington, Kentucky (May 1988).
 - g. Bay County Pharmaceutical Association, Panama City, Florida (June 1988).
 - h. North Florida Society of Hospital Pharmacists, Gainesville, Florida (August 1988).
 - i. Veterans Administration Medical Staff, Tampa, Florida (September 1988).
 - j. University Hospital, Internal Medicine Department, Noon Conference, Jacksonville, Florida (October 1988).
 - k. Volusia County Pharmaceutical Association, Ormond Beach, Florida (October 1988).
 - l. Marion County Pharmaceutical Association, Ocala, Florida (January 1989).
 - m. Key Pharmaceutical's Opening Session on Potassium Deficiency - Sawgrass Orientation, Jacksonville, Florida (March 1989).
 - n. Jacksonville Beach Hospital House Staff, Jacksonville, Florida (May 1989).
 - o. Druid City Hospital House Staff, Tuscaloosa, Alabama (June 1989).
 - p. Greater Birmingham Medical Association, Birmingham, Alabama (June 1989).
 - q. Publishing-Research-Representation, Inc., South Hampton Princess, Bermuda (July 1989).
 - r. Montgomery County Pharmaceutical Association, Montgomery, Alabama (August 1989).
 - s. American Academy of Family Practitioners, Annual Meeting, Electrolyte Symposium, Los Angeles, California (September 1989).
 - t. Indian River Pharmaceutical Association, Stuart, Florida (October 1989).
 - u. National Electrolyte Symposium, Colorado Springs, Colorado (October 1989).
 - v. Rome Medical Society, Rome, Georgia (October 1989).

- w. Cardiovascular Symposium, CanCun, Mexico (November 1989).
 - x. Jacksonville Naval Air Base, House Staff, Jacksonville, Florida (February 1990).
 - y. Emory Hospital House Staff, Noon Conference, Atlanta, Georgia (March 1990).
 - z. Baylor College of Medicine Faculty, Houston, Texas (March 1990).
 - aa. Northwest Area Health Education Center - Rowan Memorial Hospital, Noon Conference, Salisbury, North Carolina (May 1990).
 - bb. Family Medicine and Dental Clinic, Noon Conference, Palatka, Florida (July 1990).
 - cc. Virginia Society of Hospital Pharmacists, Fairfax, Virginia (October 1990).
 - dd. Pentagon City Cardiologists, Pentagon City, Virginia (October 1990).
 - ee. Halifax Hospital Family Practice Residency Program, Noon Conference, Daytona, Florida (November 1990).
 - ff. Bayfront Family Practice Residency Program, Grand Rounds Lecture, St. Petersburg, Florida (December 1990).
 - gg. Meese Hospital Medical Staff, Grand Rounds Lecture, Dunedin, Florida (December 1990).
5. Out-Patient Pharmacokinetic Monitoring - The Family Medicine Model. 135th Annual Meeting of APhA, Atlanta, Georgia. (March 1988). Canadian Pharmaceutical Association Meeting, Montreal, Canada (February 1990). Georgia Society Hospital Pharmacists Annual Meeting (October 1992).
6. Rey AM, Gums JG: Administration of the ACEI Test Sublingually. Poster Presentation at the 1991 Annual ACCP Meeting, Ft. Lauderdale, Florida (February 1991).
7. Electrolyte Disorders in Congestive Heart Failure. Presented to:
- a. Northeast Florida Association of Hospital Pharmacists, Jacksonville, Florida (June 1991).
 - b. Harrisburg Family Practice Residency Program, Harrisburg, Pennsylvania (July 1991).
 - c. Northeast Consultant Pharmacist Association, New Brunswick, New Jersey (August 1991).
 - d. University of Virginia - Charlottesville House Staff, Charlottesville, Virginia (October 1991).
 - e. Veterans Administration Hospital House Staff, Richmond, Virginia (October 1991).
8. Hypertensive Heart Disease: Pharmacologic Considerations. Presented to:
- a. National Association of Retail Druggists, 93rd Annual Convention, Baltimore, Maryland (October 1991).
 - b. Cuban Pharmacy Association, Miami, Florida (January 1992).
 - c. Department of Corrections Medical Staff, Gainesville, Florida (May 1992).
 - d. Bradford County Medical Association, Starke, Florida (June 1992).
 - e. Spring Family Practice Review, Orlando, Florida (March 1992).
 - f. North Central Florida Society Hospital Pharmacists, Gainesville, Florida (September 1992).
 - g. Diagnostic Clinics Associated, Largo, Florida (March 1993).
 - h. Lake City VA Hospital, Lake City, Florida (March 1993).
 - i. Largo Diagnostic Center, Largo, Florida (March 1993).

- j. St. Petersburg Diagnostic Center, St. Petersburg, Florida (May 1993).
 - k. Lake City Veterans Administration, Lake City, Florida (May 1993).
 - l. Alachua-Duval County Physicians, Ponte Vedra Beach, Florida (June 1994).
 - m. Alachua County Physicians and Pharmacists, Gainesville, Florida (August 1994).
 - n. Lake City Veterans Administration, Lake City, Florida (September 1995).
 - o. Fort Walton Beach Medical Society, Ft. Walton Beach, Florida (April 1996).
 - p. Pittsburg Area Physicians, Pittsburg, Pennsylvania (October 1996)
 - q. Tampa Area Physicians, Tampa, Florida (October 1996)
 - r. Phoenix Area Physicians, Phoenix, Arizona (May 1997)
9. Combination of Insulin Plus Glyburide in the Treatment of Type I (Insulin-Dependent) Diabetics. 26th Annual American Society of Hospital Pharmacists, New Orleans, Louisiana (December 1991).
10. Pharmacology for the Pediatric and Adolescent Patient. Florida Podiatric Medical Association, Scientific Assembly (June 1993).
11. Oral Contraceptives: An Update. Department of Obstetrics and Gynecology, Grand Rounds, University of Florida (March 1994). Noon Conference, Family Medicine Department, University of Florida (February 1998).
12. Allergic Rhinitis. Presented to:
- a. Pasco County Pharmaceutical Association (April 1994).
 - b. Marion County Pharmaceutical Association (May 1994).
 - c. University of Florida, Department of Family Practice Noon Conference (June 1994).
 - d. Caremark Pharmacists, Ashland, Virginia (July 1994).
 - e. K-Mart Pharmacists, Jacksonville, Florida (October 1994).
 - f. K-Mart Pharmacists, Gainesville, Florida (October 1994).
 - g. Eckerd Pharmacists, Tampa, Florida (November 1994).
 - h. Orange Park Medical Group, Orange Park Florida (November 1994).
 - i. Leon County Pharmacy Association, Tallahassee, Florida (March 1995).
 - j. Polk County Pharmacy Association, Lakeland, Florida (April 1995).
 - k. Lake County Pharmacy Association, Leesburg, Florida (July 1995).
 - l. Marion County Physician Assistants Association, Ocala, Florida (March 1996).
 - m. Pensacola Memorial Hospital, Pensacola, Florida (March 1996).
 - n. Melbourne Nurse Practitioners and Physician Assistants, Melbourne, Florida (April 1996).
 - o. St. Vincent Family Practice Residency Program, Jacksonville, Florida (May 1996).
 - p. Leon County Pharmaceutical Association, Tallahassee, Florida (February 1997)
 - q. Pharmaceutical Care Manufacturers Association, Philadelphia, Pennsylvania. (May 1998).
 - r. Alachua County Medical Society, Gainesville, Florida (September 1998)
 - s. National Community Pharmacist Association, St. Louis, Missouri (October 1998)
 - t. Alachua County Physicians, Gainesville, Florida (April 1999)

- u. 27th Annual Physician Assistant Conference, Atlanta, Georgia (June 1999)
 - v. Alachua County Physicians, Gainesville, Florida (May 2002)
13. Diabetes Update. Florida Society of Hospital Pharmacists Midyear Clinical Meeting, Ft. Lauderdale, Florida (May 1994).
 14. Osteoporosis. Florida Society of Hospital Pharmacist Annual Meeting, Orlando, Florida (August 1994).
 15. Magnesium: A Review. American Dietary and Diabetes Educators, San Antonio, Texas (August 1994).
 16. Pharmacist Managed Anticoagulation Service: Outcome Analysis. Presented to:
 - a. Department of Pharmacy Practice, University of Florida, Seminar Series (September 1994).
 - b. University of Florida, College of Pharmacy - Parents Day (February 1995).
 - c. Florida Pharmacy Association Anticoagulation Symposium, Ft. Lauderdale, Florida (May 1995); St. Petersburg, Florida (September 1995).
 - d. Georgia Society of Hospital Pharmacists Annual Meeting, Atlanta, Georgia (September 1995).
 - e. Anticoagulating Symposium. Sponsored by University of Washington, Miami, Florida (December 1994).
 17. Successful Models in Pharmaceutical Care: Ambulatory Care. ASHP Midyear Clinical Meeting, Miami, Florida (December 1994).
 18. Hypertension Optimal Treatment (HOT) Study. Presented to:
 - a. Long Island Consultant Pharmacist Association, Long Island, New York (November 1995).
 - b. Department of Family Medicine, University of Florida (December 1995).
 - c. Florida Hospital Family Practice Residency Program, Orlando, Florida (December 1995).
 - d. Tallahassee Regional Medical Center, Family Practice Residency Program, Tallahassee, Florida (March 1996).
 - e. Polk County Pharmacy Association, Lakeland, Florida (April 1996)
 - f. Miami VA Hospital, Miami, Florida (September 1998)
 - g. Broward County Pharmacist Association, Ft. Lauderdale, Florida (September 1998)
 19. Pharmacologic Treatment of Obesity. Presented to:
 - a. Spring Family Practice Review, Orlando, Florida (April 1996).
 - b. Monroe Regional Medical Center, Orlando, Florida (June 1996).
 - c. Marion County Osteopathic Association, Ocala, Florida (September 1996).
 - d. Panhandle Medical Society, 44th Annual Meeting, Marianna, Florida (October 1996).
 - e. Department of Obstetrics and Gynecology Grand Rounds, University of Florida, Gainesville, Florida (October 1996).

- f. Student Health Infirmary, University of Florida, Noon Conference, Gainesville, Florida (October 1996).
 - g. Fall Family Practice Review 1996, University of Florida, Orlando, Florida (November 1996).
 - h. American Association of Office Nurses, Portland, Oregon (April 1997)
 - i. American Association of Office Nurses, Springfield, Mass. (May 1997)
 - j. American Association of Office Nurses, Orlando, Florida (June 1997)
 - k. Department of Family Medicine, Noon Conference, University of Florida, Gainesville, Florida (May 1999)
 - l. Gainesville Area Physicians, Gainesville, Florida (May 1999)
 - m. Gainesville Area Physicians², Gainesville, Florida (May 1999)
 - n. Ocala Regional Medical Center, Ocala, Florida (June 1999)
 - o. Marion County Pharmacy Association, Ocala, Florida (June 1999)
 - p. Alachua County Medical Association, Gainesville, Florida (June 1999)
 - q. Gainesville Physician Assistant Association, Gainesville, Florida (June 1999)
 - r. Ocala Regional Medical Center, Ocala, Florida (August 1999)
 - s. Gainesville Office Nurses Association, Gainesville, Florida (February 2001)
20. Antibiotic Resistance. Presented to:
- a. Spring Family Practice Review, Orlando, Florida (April 1996).
 - b. Gainesville Area Physicians, Gainesville, Florida (September 1996).
 - c. Alachua County Physician Assistants Association, Gainesville, Florida (October 1996)
 - d. Fall Family Practice Review 1996, University of Florida, Orlando, Florida (November 1996).
 - e. Medical Therapeutics (BMS 5473), Gainesville, Florida (April 2001)
21. Hyperlipidemia Update: St. John's Medical Society, St. Augustine, Florida (April 1996).
22. Hypertension 1996 - An Update: A three hour symposium, Florida Society Hospital Pharmacist, Ft. Lauderdale, Florida (April 1996).
23. Pharmacology Case Conference: Noon Conference, University of Florida, Family Practice Residency Program, Gainesville, Florida (February 1996-present).
24. Pharmacist - Assisted Infectious Disease Consult Service: Outcome Analysis
- a. Jackson Memorial Hospital, Miami, Florida (October 1996).
 - b. Asheville Memorial Hospital, Asheville, North Carolina (October 1998)
 - c. Mountain Area Health Education Center, Asheville, North Carolina (March 2000)
25. Cardiovascular Disease Therapy: Innovations in Calcium Channel Blockers, An Introduction to Selective T-channel Therapy
- a. American Society Consultant Pharmacists, Phoenix, AZ (May 1997)
 - b. American Academy of Physician Assistants, Minneapolis, MN (May 1997)
 - c. American Heart Association, Jacksonville, FL (November 1997)
 - d. American Society of Health-System Pharmacists, Atlanta, GA (December 1997)
 - e. American Pharmaceutical Association, Annual Meeting, Miami Florida (March 1998).

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- f. American Society of Community Pharmacists, Annual Meeting, Pittsburgh, PA (May 1998).
26. Lower Respiratory Tract Infections: Emerging Treatment Options
- a. Pensacola Medical Society - Pensacola, FL (May 1997)
 - b. Louisville Medical Society - Louisville, KY (June 1997)
 - c. Southwest Florida Hospital Pharmacy Association (July 1997)
 - d. Mobile Medical Society - Mobile, AL (July 1997)
 - e. Tallahassee Memorial Family Practice Residency Program - Noon Conference, Tallahassee, FL (August 1997)
 - f. Good Samaritan Hospital Noon Conference, Pulmonary Department, Phoenix, AZ (September 1997)
 - g. White Memorial Hospital Noon Conference, Los Angeles, CA (September 1997)
 - h. Good Samaritan Hospital Noon Conference, Internal Medicine Department, Dayton, OH (September 1997)
 - i. Veteran's Affairs Hospital Noon Conference, Fort Wayne, IN (September 1997)
 - j. St. Joseph's Hospital Noon Conference, Tacoma, WA (September 1997)
 - k. Southwest Society Hospital Pharmacists Annual Meeting, Tampa, FL (September 1997)
 - l. Bayfront Medical Center Noon Conference, St. Petersburg, FL (October 1997)
 - m. Ball Memorial Hospital, Ball State University Noon Conference, Muncie, IN (October 1997)
 - n. San Juan Medical Society- Annual Continuing Education Conference, University of Puerto Rico, San Juan, Puerto Rico (November 1997)
 - o. University Hospital Noon Conference, Internal Medicine Department, Jacksonville, FL (December 1997)
27. Antimicrobial Resistance in the New Millenium: Bugs vs. Drugs
- a. Holmes Regional Medical Center, Melbourne, Florida (July 1998)
 - b. Memorial Mission Hospital, Asheville, North Carolina (September 1998)
 - c. Mission St. Joseph's Health Systems, Asheville, North Carolina (September 1998)
 - d. St. Joseph's Hospital, Asheville, North Carolina (September 1998)
 - e. Ocala Regional Medical Center, Ocala, Florida (October 1998)
 - f. Fall Family Practice Review, University of Florida, Orlando, Florida (November 1998)
 - g. Bon Secours Hospital System, Richmond, Virginia (November 1998)
 - h. St. Joseph's Hospital-Chicago, Chicago, Illinois (June 1999)
 - i. Provena Saint Joseph Medical Center, Joliet, Illinois (June 1999)
 - j. Wyckoff Heights Medical Center, Brooklyn, New York (November 1999)
 - k. York Hospital, York, Pennsylvania (January 2000)
 - l. St. Joseph's Hospital, Marshfield, Wisconsin (February 2000)
 - m. St. Francis Medical Center, Peoria, Illinois (February 2000)
 - n. Our Lady of Lourdes Medical Center, Camden, New Jersey (May 2000)
 - o. Community Hospital, Munster, Indiana (July, 2000)
 - p. Pinnacle Health Systems-Harrisburg Hospital, Lancaster, Pennsylvania (July 2000)
 - q. Pinnacle Health Systems-Polyclinic Hospital, Lancaster, Pennsylvania (July

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- 2000)
 - r. Northeast Medical Center, Humble, Texas (August 2000)
 - s. Jackson-Madison County, Jackson, Tennessee (September 2000)
 - t. Broward General Medical Center, Ft. Lauderdale, Florida (November 2000)
 - u. Baptist Hospital, Miami, Florida (March 2001)
 - v. South Miami Hospital, South Miami, Florida (March 2001)
 - w. Huntsville Hospital, Huntsville, Alabama (May 2001)
 - x. Sacred Heart, Pensacola, Florida (May 2001)
 - y. University of Alabama, Huntsville, Alabama (June 2001)
 - z. Integris Health System, Oklahoma City, Oklahoma (October 2001)
 - aa. American Society of Health System Pharmacists, New Orleans, LA (December 2001)
 - bb. Orlando Regional Health Care, Grand Rounds, Orlando, Florida (January 2002)
 - cc. Bayfront Family Practice Residency, Tampa, Florida (May 2002)
 - dd. Good Samaritan/St. Mary's, West Palm Beach, Florida (June 2002)
 - ee. Georgia Society of Hospital Pharmacists, Amelia Island, Florida (July 2002)
 - ff. Florida Society of Health-Care Pharmacists, Orlando, Florida (August 2002)
 - gg. University of Alabama Birmingham, Birmingham, Alabama (September 2002)
 - hh. Northeast Florida Society of Hospital Pharmacists, Jacksonville, Florida (October 2002)
 - ii. 14th Annual Deaconess Hospital Fall Symposium, Oklahoma City, Oklahoma (October 2002)
 - jj. University of Florida, Shands at Jacksonville Hospital, Noon Conference, Jacksonville, Florida (October 2002)
 - kk. Tallahassee Memorial Hospital, Medicine Staff Noon Conference, Tallahassee, Florida (December 2002)
 - ll. Hospital Auxilio Muto, Hato Rey, Puerto Rico (April 2003)
 - mm. Hospital Dr. Perea, Mayaguet, Puerto Rico (April 2003)
 - nn. Florida Academy of Family Physicians, Orlando, Florida (July 2003)
28. 9th Annual Diabetes Review -
a. University of Florida (December 1998) Keynote Address on Update of New Treatment Modalities.
29. Critical Analysis of Medical Literature:
a. University of Florida-North Broward Hospital District, Family Practice Residency Program, Coral Springs, Florida (April 1999)
30. Low-Molecular Heparins:
a. Georgia Society Health-System Pharmacists. Columbus, Georgia (April 1999), NE Society of Health-System Pharmacists, Jacksonville, Florida (April 2001)- b. Eastern Shores Pharmaceutical Association, Ormond Beach, Florida (February 2002)
- c. Palm Beach County Pharmacy Association, West Palm Beach, Florida (May 2003)
- d. Florida Society of Health-System Pharmacist, Orlando, Florida (August 2003)
- e. Primary Care Update, University of Florida (May 2004)

31. Formulary Decisions on LMWH's:
 - a. California Society of Health-System Pharmacists, Long Beach, California (October 1999)

32. Strategies for Controlling and Preventing Antimicrobial Resistance:
 - a. American Society of Health-System Pharmacists Annual Meeting, Philadelphia, PA (June 6, 2000)

33. Antimicrobial Resistance: Focus on Gram-negative organisms.
 - a. CME Symposium Tampa General Hospital, Tampa Florida (April 2001);
 - b. Marion County Pharmacy Association, Ocala, Florida (April 2001);
 - c. Georgia Osteopathic Medical Association, Amelia Island, Florida (June 2001)
 - d. Georgia Society of Health-System Pharmacists, Amelia Island, Florida (July 2002)

34. Hypertension Management:
 - a. Shands OB/GYN Grand Rounds, Gainesville, Florida (April 2002)

35. Antimicrobial Resistance Management (A.R.M.)
 - a. North Central Florida Society of Health-System Pharmacists, Gainesville, Florida (April 2002)
 - b. Virginia Beach General Hospital, Medicine Grand Rounds, Virginia Beach, Virginia (October 2002)
 - c. 4th International Symposium Perspectives in Clinical Microbiology and Infections, ESCMID, Venice, Italy (January 2003)
 - d. San Juan Local Hospitals, San Juan, Puerto Rico (March 2003)
 - e. Tift Regional Hospital, Tifton, Georgia (March 2003)
 - f. University of Florida, College of Medicine, Grand Rounds, Gainesville, Florida (March 2003).
 - g. University of Florida, College of Medicine, Pediatric Grand Rounds, Gainesville, Florida (May 2003)
 - h. Hospital Auxilio Muto, Hato Rey, PR (August 2003)
 - i. Hospital Interamericano do Medicina Avanzada, Caguas, PR (August 2003)
 - j. Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC) 43rd Annual Meeting, Chicago, Illinois (September 2003)
 - k. Providence Portland Medical Center, Portland, OR (September 2003)
 - l. Providence St. Vincent Medical Center, Portland OR (September 2003)
 - m. Valley Hospital (Valley Health System), Las Vegas, NV (September 2003)
 - n. South Carolina Society of Health-System Pharmacists (SCHSP) Annual Meeting, Greenville, SC (October 2003)
 - o. Jackson Memorial Hospital, Miami, FL (February 2004)
 - p. Hospital Corporation of America Regional Pharmacy Meeting , Dallas, TX (May 2004)
 - q. Hospital Corporation of America Regional Pharmacy Meeting, Phoenix, AZ, (May 2004)
 - r. Eastern Virginia Medical School, Norfolk, VA (May 2004)
 - s. Lexington Medical Society, Lexington, SC (June 2004)
 - t. Florida Public Health Association, Orlando, FL (July 2004)
 - u. Federal Pharmacy Association, Jacksonville, FL (July 2004)

- v. Strong Memorial Hospital at University of Rochester, Rochester, NY (September 2004)
 - w. University Medical Center Grand Rounds, Las Vegas, NV (October 2004)
 - x. American College of Emergency Physicians (ACEP) National Meeting, San Francisco, CA (October 2004)
 - y. Presbyterian Hospital, Charlotte, NC (November 2004)
 - z. Montgomery Regional Hospital, Blacksburg, VA (June 2005)
 - aa. VHA Hospital System (East Region) Philadelphia, PA (September 2005)
 - bb. Alliance Prudent Use Antibiotics (APUA), Boston, MA (October 2005)
 - cc. Medical University of South Carolina Family Practice Residency Program, Noon Conference, Charleston, SC (February 2006)
 - dd. VHA Empire State Clinical Improvement Symposium Syracuse, NY (June 2007).
 - ee. FSHP 41st Annual Meeting, Orlando, FL (August 2007)
 - ff. VHA Northeast Region, Pharmacy Directors Council; Boston, MA (August 2007)
 - gg. UF Student Health Care Center, Grand Rounds, Gainesville, FL (August 2007)
 - hh. VHA Gulfstates and SE Regions Joint Pharmacy Directors Council, Destin, FL (October 2007)
 - ii. University of Central Florida – Department of Student Health Sciences, Noon Conference, Orlando, FL (November 2007)
 - jj. Montgomery Regional Hospital, Blacksburg, VA (November 2007)
 - kk. Dartmouth University Medical Center, Grand Rounds, Lebanon, NH (November 2007)
 - ll. University of Florida, Grand Rounds, Division of Dermatology & Cutaneous Surgery, Gainesville, FL (April 2008)
36. Primary Care: From Education to Legislation
- a. 2002 Francis S. Balassone Memorial Lecture, University of Maryland, Baltimore, Maryland (November 2002)
37. VTE Prophylaxis in the Medically Ill Patient
- a. Noon Conference, Family Practice Residency Program at the University of Florida, Gainesville, FL (August 2005)
 - b. VHA Hospital Corporation. SE Region Pharmacy Director's Meeting (February 2007)
 - c. Cleveland Clinic Hospital, Cleveland, OH (January 2008)
 - d. Florida Hospital Pharmacy Association, SW Florida Seminar Series, Tampa, FL (March 2008)
 - e. Primary Care Symposium, University of Florida, Gainesville, FL (April 2008)
38. Hormone Contraception Update 2006
- a. Florida Hospital Celebration Health (October 2006)
39. State of Infectious Disease in Florida
- a. Florida Department of Health (FDOH) Annual Statewide Epidemiology Seminar. Tampa, FL (November 2006)
40. Implementing Clinical Pharmacy Services in Austria
- a. Series of lectures to Austrian Pharmacy Association (invited). Rust, Austria (October 2007)

- b. Series of lectures to Austrian Pharmacy Association (invited), Vienna, Austria (October 2008)
41. Update on Family Medicine Research-Keynote Lecture
 - a. 9th Annual Research Achievement Symposium, University of Iowa, Division of Clinical and Administrative Pharmacy, Iowa City, IA (invited) (April 2008)
 42. Understanding Bugs and Drugs: The Journey to Antibiotic Stewardship
 - a. CME National Teleconference, VHA Hospital Corporation (July 2008)

RESEARCH:

1. The Relationship of Serum Amino Acids to Mood States in Malnourished Patients. Conducted in cooperation with Dr. Julian McGill of the Medicinal Chemistry Department at the Medical University of South Carolina. (Co-Investigator) Conducted from January 1983 through May 1984. Internal Funding Provided.
2. The Effect of Magnesium and Potassium Serum Concentrations on Cardiac Function: The Role of Spironolactone. December 1982 through May 1985. (Principal Investigator) Internal Funding Provided. Conducted at Department of Family Medicine, Medical University of South Carolina.
3. The Effect of Maxzide (triamterene-hydrochlorothiazide) on Blood Lipids. (Co-Investigator) Conducted from April 1985 through May 1986.
4. The Determination of Magnesium Concentrations in Platelets, Granulocytes, and Lymphocytes. (Co-Investigator) Conducted from December 1982 through May 1985.
5. Comparison of Generic and Brand-Name 1-Thyroxine Tablets. (Co-Investigator) Conducted at the Department of Family Practice Medical Group, Inc., Gainesville, Florida. Funding provided by Daniels Pharmaceutical (\$45,000). Conducted from January 1986 through October 1986.
6. Evaluation of the Safety of Betacor in Mild-to-Moderate Hypertension. (Co-Investigator) (Completed March 1986) Conducted at the Department of Family Practice Medical Group, Inc., Gainesville, Florida. Funding provided by Ayerst Laboratories (\$53,000).
7. The Treatment of Type I Diabetics with a Combination of Diabeta and Insulin. (Principal Investigator) Conducted at the Department of Family Practice, University of Florida. Funding provided by Hoechst-Roussel Pharmaceuticals (\$45,000) (June 1987 - May 1988).
8. Comparison of Safety and Efficacy of Lomefloxacin and Norfloxacin in the Treatment of Uncomplicated Urinary Tract Infections. (Principal Investigator) Conducted at the Department of Family Practice, University of Florida. Funding provided by Searle Pharmaceuticals (\$33,000) (October 1988 - December 1989).

9. A Two-Month, Double-Blind Study of the Safety and Efficacy of Intranasal DDAVP (Vasopressin in the Treatment of Elderly Patients with Nocturnal Urinary Frequency. (Co-Investigator) Funding provided by Rorer Pharmaceuticals (up to \$70,000) (May 1989 - March 1990).
10. Cefuroxime Axetil in Various Bacterial Infections. Funding provided by Eli Lilly Pharmaceuticals (\$25,780) (April 1989 - December 1989).
11. Randomized, Comparative Evaluation of Low-Dose Glyburide Versus Low-Dose Glipizide in the Treatment of Elderly Patients with Non-Insulin Dependent Diabetes Mellitus. (Principal Investigator) Funding provided by Hoechst-Roussel Pharmaceuticals (\$19,800) (May 1990 - June 1992).
12. A Randomized, Clinical Trial Comparing Monopril versus Procardia XL in Older, Overweight Patients with Mild Hypertension. (Co-Principal Investigator) Funding provided by Bristol-Myers Squibb (July 1992 - April 1993).
13. A Double- Blind, Placebo-Controlled Dose Titration Study of the Safety and Efficacy of Dilacor XR in Elderly Patients with Mild to Moderate Hypertension. (Co-Principal Investigator) Funding provided by Rhone-Poulenc Rorer (July 1992 - April 1993).
14. Pharmacy Intervention in a Antibiotic Prescribing Service: Outcome Analysis. (Principal Investigator) Funding provided by Roche (\$75,000) (July 1994 - February 1996).
15. Losartan Intervention For Endpoint Reduction in Hypertension (LIFE Study). (Co-Principal Investigator) Funding provided by Merck (\$40,968) (December 1995 - 2001).
16. A Multi-Center, Prospective, Randomized, Single-Blind, Parallel Group Comparison of the Clotrimazole 1-day and Clotrimazole 3-day regimens. (Co-Principal Investigator) Funding provided by Bayer (\$17,000) (January 1996 - November 1996).
17. The Hypertension Optimal Treatment (HOT) Study. (Principal Investigator) Funding provided by Astra-Merck (\$60,000) (October 1993 – October 1997).
18. Accupril Titration Interval Management Evaluation. (A-TIME) Protocol #253-96. (Co-Principal Investigator) Funding provided by Parke-Davis (October 1996 - January 1998)
19. A Randomized, Double-blind, Placebo-controlled, Multi-center Study Measuring the effects of CI-991 Non-insulin Dependent Diabetes Mellitus (NIDDM) patients requiring insulin: Protocol 991- 084. (Co-Principal Investigator) Funding provided by Parke-Davis (\$11,400.00) (October 1996 – March 1998).
20. A Multi-center, Open-Label 12 Week Prospective Study to Evaluate the Effectiveness and Tolerability of LEXXEL in Hypertensive patients Participating in the General Registry Program who have not Adequately Responded to Angiotensin-Converting Enzyme Inhibitor Monotherapy. (Co-Principal Investigator), Astra Merck, Inc. (\$22,500.00) (July 1997 - August 1999).

21. A Multi-center, Double-Blind, 12 Week Randomized, Parallel Group, Comparative Study to Evaluate the Efficacy and Tolerability of LEXXEL versus Lisinopril 20 mg in Hypertensive Patients who have not Adequately Responded to Lisinopril 10 mg Monotherapy. (Co-Principal Investigator), Astra Merck Inc. (\$6,000.00) (July 1997 – August 1999).
22. A Randomized Double-Blind Placebo-Controlled Multicenter Study Measuring the Effects of Glyburide with the Addition of Troglitazone on Achieving Glycemic Control in Type II (Noninsulin Dependent) Diabetes Mellitus (NIDDM) Patients (Protocol 991-085). (Co-Principal Investigator), Parke-Davis (\$15,200.00) (July 1997 - October 1999).
23. A Double-Blind, Placebo-Controlled, Randomized Study of the Safety and Efficacy of a Combination of Metformin and 30 mg Pioglitazone in the Treatment of Patients with Non-Insulin Dependent Diabetes Mellitus (NIDDM). (Co-Principal Investigator), Takeda America, Inc., (\$47,520.00) (August 1997 - July 1999)
24. A Double-Blind, Placebo-Controlled, Randomized Study of the Safety and Efficacy of a Combination of Sulfonylurea and Two Doses of Pioglitazone (15 or 30 mg) in the Treatment of Patients with Non-Insulin Dependent Diabetes Mellitus (NIDDM), (Co-Principal Investigator), Takeda America, Inc., (\$ 47,520.00) (August 1997 - July 1999).
25. A Multi-center, 24-week, Double-Blind, Randomized, Placebo-Controlled, Parallel Group Study to Reduce Insulin Injection Frequency to Once Daily (QD) With The Addition of Troglitazone (CI-991) in Type 2 Diabetes Mellitus Patients. (Co-Principal Investigator). Parke-Davis. (\$38,625.00). (March 1998 - September 1999).
26. A randomized, Double-Blind, Multi-Center Trial Comparing the Safety and Efficacy of Troglitazone vs. Metformin as Monotherapy in Subjects with Type 2 Diabetes Mellitus. (Co-Principal Investigator). Parke-Davis. (\$32,400) (2001)
27. A Randomized, Double-Blind Placebo Controlled, Multi-center, Long-Term Trial of Preventing Hypertension Using Candesartan Cilexetil 16 mg in Patients with High Normal Blood Pressure (TROPHY: Trial of Preventing Hypertension) (Protocol #197). (Co-investigator). Astra Pharmaceuticals. (\$33,000) (December 1999 – June 2005)
28. Clinical Protocol for Successive Celecoxib Efficacy and Safety Studies in Osteoarthritis (SUCCESS-1) (Protocol #149-98-02-096). (Co-Investigator). Searle. (\$7,776). February 1999 - January 2000)
29. Double-Blind, Active-Controlled Study of the Efficacy and Safety of Oral HMR 3647 (800 mg once daily) 5 Days versus 7 Days versus 10 Days Oral Clarithromycin (300 mg twice daily) in the Treatment of Community-Acquired Pneumonia (Protocol# HMR3647A/4003). (Sub-Investigator). (Hoechst-Marion Roussel). (\$43,500) (January 2000-June 2001)

30. Repaglinide vs. Pioglitazone vs. the Combination in Type 2 Diabetes Patients: A 24-Week, Randomized, Controlled Multicenter Trial. (Protocol #AGREE-2064), Sub-Investigator), (Novo-Nordisk), (\$36,000) (2001)
31. A Double-Blind, Randomized Study of the Safety and Efficacy of a Combination of Insulin and 45 mg of ACTOS (Pioglitazane) Compared to a Combination of Insulin and 30 mg ACTOS (Pioglitazone) in the Treatment of Patients With Type 2 (Non-Insulin Dependent) Diabetes Mellitus. (Protocol #AD-4833/PNFP 343). (Sub-Investigator), (Takeda). (\$42,000) (February 2000-June 2001)
32. A Multi-Center, Randomized, Double-Blind, Placebo-Controlled and Open-Label Evaluation of the Safety and Efficacy of Dual Therapy with Atorvastatin Plus Amlodipine When Compared To Either Therapy Alone in the Treatment of Patients with Simultaneous Hyperlipidemia and Hypertension (The Avalon Study) (Sub-Investigator) (Pfizer) (\$42,000). April 2001-November 2004.
33. Omapatrilat Cardiovascular Treatment Assessment Versus Enalapril (OCTAVE), Protocol #: CV137-120 (Sub-Investigator) (Bristol-Myers Squibb) (\$9,000.00) November 2000-September 2001
34. A Double-Blind, Randomized, Placebo-Controlled Surveillance Study of Asthma Event Outcomes in Subjects Receiving Either Usual Pharmacotherapy of Asthma or Usual Pharmacotherapy plus Salmeterol 42 MCG (2 Puffs) Twice Daily. (Sub-Investigator) (Glaxo-Wellcome). (\$2400.00) April 2000-2003.
35. Double-Blind, Placebo-Controlled, Randomized Six Week Comparison Study of the Efficacy of Valdecoxib 20 MG QD and Rofecosib 25 MG QD in Relieving the Signs and Symptoms of Osteoarthritis of the Knee (Protocol 872-IFL-0513-004). (Sub-Investigator). (Lilly Icos) (\$48,518.00) (December 2001).
36. A Multi-National, Prospective, Randomized, Double-Blind, Multi-Center, Placebo-Controlled Study to Evaluate Efficacy and Safety of a Fixed Combination Therapy of Amlodipine and Atrovastatin in the Treatment of Concurrent Hypertension and Hyperlipidemia. The Respond Trial. (Protocol A3841003). (Sub-Investigator) (Pfizer). (\$40,310.00). (March 2002).
37. Clinical Protocol for a Multi-Center, Double-Blind, Placebo-Controlled, Randomized, Parallel Group Study in the U.S. to Compare the Efficacy and Tolerability of Valecoxib Vs. Tramadol in Treatment of Acute Ankle Sprains. (Protocol 872-IFL-0513-008). (Sub-Investigator). (Pharmacia) (\$12,000.00). (February 2002 – June 2003).
38. Clinical Protocol For A Double-Blind, Placebo Controlled, Randomized Two Week Comparison Study Of The Efficacy And Tolerability Of Valdecoxib 10MG QD And Rofecoxib 25MG QD In Relieving The Signs And Symptoms Of Osteoarthritis Of The Knee. (Protocol VALA-0513-142). (Sub-Investigator). (Pharmacia). (\$27,000). (May 2002).

39. Chronic Pain Management: The Effects of Including a Pain Self-Assessment in the Patient's Medical Chart. 2002 Summer NIH Research Program for Pharmacy Students (Mentor)
40. American Federation for Aging Research: Merck/AFAR Research Scholarship in Geriatric Pharmacology (Mentor) (\$3,500) (April 2002).
41. A Multi-Center, Randomized, Investigator-Blind, Parallel group study designed to evaluate the safety and clinical equivalence of Clay-Park Labs Inc.'s Terconazole Vaginal Suppositories, 80 mg and Terazol[®] 3 (Terconazole) Vaginal Suppositories 80 mg (Ortho-McNeil Pharmaceutical, Inc.) in the treatment of Vulvovaginal Candidiasis (Moniliasis) Caused by Candida Species. (Protocol CPL-202). (Clay-Park Labs, Inc.) (\$49,600). (November 2002 – December 2003).
42. A Multi-Center, Double-Blind, Randomized, Parallel Groups, Placebo-Controlled Study to Assess the Efficacy and Safety of Fexafenadine 120 mg BID in Subjects With Mild to Moderate Persistent Asthma. (Protocol M016455P/3002) (Sub-Investigator) (Aventis) (\$10,000) (September 2002-2003.)
43. An Open-Label Study to Evaluate the Efficacy and Safety of Tadalafil administered "On Demand" to Men of Various Populations with Erectile Dysfunction. (Protocol H6D-MC-LVFN) (Sub-Investigator) (Lilly Icos) (\$52,013) (July 2003-June 2004)
44. A 24 Week, Placebo-Controlled, Randomized, Parallel Group Study Comparing Roflumilast 500 mcg Daily vs. Placebo on Pulmonary Function and Respiratory Symptoms in Patients with Chronic Obstructive Pulmonary Disease (COPD). (Protocol PDEACO-9287-001) (Sub-Investigator) (Pfizer) (\$24,651) (March 2004 – June 2004)
45. A Multi-Center, Randomized, Double-Blind, Active Controlled Study to Compare the Effect of 52 Weeks Treatment with LAF237 50 mg BID to Metformin Up to 1000 mg BID in Drug Naïve patients with Type 2 Diabetes. (Protocol CLAF237A2309) (Sub-Investigator) (Novartis) (\$24,651) (March 2004 – June 2005)
46. A Randomized, Double-Blind, Parallel-Group, Multi-center Study to Compare Clinical Health Outcomes of Telithromycin versus Azithromycin in Outpatients with Community-Acquired Lower Respiratory Tract Infections (KEYS). (Protocol HMR3647A/4019) (Sub-Investigator) (Aventis) (\$22,000) (February 2005 – December 2006)
47. A Double-Blind, Randomized, Placebo and Active Controlled, Forced Titration Study Evaluating the Effects of Nebivolol on Blood Pressure and Heart Rate in African American Patients with Hypertension, (Protocol NEB-310) (Sub-Investigator) (Mylan Bertek Pharmaceuticals) (\$28,500) (2007)
48. A 52 week extension to a multicenter, randomized, double-blind, active controlled study to compare the effect of 52 weeks treatment with LAF237 50 mg bid to metformin up to 1000 mg bid in drug naïve patients with type 2 diabetes. (Protocol CLAF237A2309E1) (Sub-Investigator) (Novartis) (\$3,662.00) (June 2005 – December 2006)

49. A randomized, double-blind, placebo-controlled, parallel-group, multicenter study comparing an eight-week treatment of aliskiren 75 mg, 150 mg and 300 mg to placebo in patients with essential hypertension. (Protocol CSPP100A2328) (Sub-Investigator) (Novartis) (\$ 25,284.00) (September 2005 – December 2006)
50. A Multicenter, Randomized, Double-Blind, Active Controlled Study to Compare the Effect of 24 Weeks Treatment with Vildagliptin 100 mg QD or Metformin 1500 mg QD in Elderly Drug Naïve Patients with Type 2 Diabetes (Protocol CLAF 237A2398) (Sub-Investigator) (Novartis) (\$6,327.00) (December 2006 – December 2008)
51. Pharmacogenomic Evaluation of Antihypertensive Responses, PEAR, National Institute of Health (Protocol U01 GM074492) (\$1,037,710.00) (Investigator) (August 2005 – July 2010).
52. Carter BL, Ardery G, James PA, **Gums JG**, et.al. “Collaboration Among Pharmacists and Physicians To Improve Outcomes NOW (CAPTION) Study”, Funded by the NIH RO1 HL091841 (November 2008).

CCC: Direct Costs: \$4,186,114	Total Costs: \$5,475,591
DCC: Direct Costs: \$2,552,342	Total Costs: \$3,820,932
Total: Direct Costs: \$6,738,456	Grand Total Costs: \$9,296,523
53. Smith SM, **Gums JG**, Kuo G, Carter B, Fagnan LJ, (Interdisciplinary Primary Care Research Network Study Group). Medical Office Survey on Patient Safety (SDPS) Project. Funding provided by the Agency for Healthcare Research and Quality (AHRQ). (April 2009).
54. A Randomized, Multicenter, Double-Blind Clinical Trial to Evaluate Efficacy in the Use of Clinical Plus Genetic Information to Guide Warfarin Therapy Initiation and Improve Anticoagulation Control for Patients (COAG Trial). Funded by NHLBI (December 2008)
 - ❖ University of Florida Site Investigator
 - ❖ Member: Recruitment and Retention Subcommittee
 - ❖ Member: Ancillary Studies Subcommittee
55. **Gums JG.** Ortho-McNeil Infectious Disease Outcomes (OMIDO) Project. Principal Investigator, Grant Submitted May 2009, (Projected Budget \$350,000.)

GRANTS:

1. Ayerst Pharmaceuticals (\$53,000.00) (July 1985).
2. Division Sponsored Research - University of Florida. New Faculty Award (\$4,550.00) (October 1986).
3. Daniels Pharmaceuticals (\$45,000.00) (October 1986).
4. Hoechst-Roussel Pharmaceuticals (\$52,000.00) (January 1987).

5. Searle Pharmaceuticals (\$33,000) (October 1988).
6. Eli Lilly Pharmaceuticals (\$25,780) (April 1989).
7. Hoechst-Roussel Pharmaceuticals (\$19,800) (May 1990).
8. Miscellaneous Donors (\$14,700) (November 1992).
9. Astra-Merck (\$27,113) (January 1994).
10. Astra-Merck (\$6,000) (March 1994).
11. DuPont Pharmaceuticals (\$1,700) (May 1994).
12. Bristol-Myers (\$1,056) (November 1994).
13. Alachua General Hospital (\$12,000) (March 1995).
14. Sandoz Pharmaceuticals (\$1,000) (August 1995)
15. Roche Pharmaceuticals (\$25,000) (September 1995).
16. Roche Pharmaceuticals (\$55,000) (January 1996).
17. Alachua General Hospital (\$30,000) (June 1996).
18. Merck (\$4,000) (October 1996).
19. Merck (\$5,000) (April 1997).
20. Alachua General Hospital (\$30,000) (July 1997).
21. Merck (\$3,500) (May 1998).
22. Roche (\$10,000) (January 2000)
23. Roche (\$50,000) (May 2001)
24. Roche (\$50,000) (June 2001)
25. Bristol-Myers Squibb (\$8,000) (June 2001)
26. Aventis Pharmaceuticals (\$62,500) (December 2001)
27. Aventis Pharmaceuticals (\$15,000) (July 2002)
28. Aventis Pharmaceuticals (\$3,000) (August 2002)
29. Roche (\$50,000) (December 2002)

30. Aventis Pharmaceuticals (\$10,000) (May 2003)
31. Roche Pharmaceuticals (\$40,000) (July 2003)
32. Roche Pharmaceuticals (\$37,000) (July 2003)
33. Roche Pharmaceuticals (\$11,000) (December 2003)
34. Roche Pharmaceuticals (\$523,000) (April 2004)
35. Wyeth Pharmaceuticals (\$5,000) (December 2004)
36. AstraZeneca Pharmaceuticals (\$102,891) (December 2005)
37. Roche Pharmaceuticals (\$50,000) (July 2007)
38. AstraZeneca Pharmaceuticals (\$114,141) (July 2007)
39. Wyeth Pharmaceuticals (\$12,500) (August 2007)
40. Schering-Plough Pharmaceuticals (\$1,500) (July 2007)
41. VHA Hospital Corporation (\$2,250) (September 2008)

POST-DOCTORAL FELLOWS:

1. Preceptor - Post-Doctoral Fellow, Department of Family Medicine/Pharmacy Practice.
 - a. Gelcys Montes de Oca, Pharm.D. (July 1987 - June 1988).
 - b. Hilary A. Skluth, Pharm.D. (July 1988 - June 1989).
 - c. Aixa M. Rey, Pharm.D. (July 1989 - June 1991).
 - d. Anne C. Wells, Pharm.D. (July 1991 - June 1992).
 - e. Michelle A. Goode, Pharm.D. (July 1992 - June 1993).
 - f. Vickie M. Wilt, Pharm.D. (July 1993 - June 1995).
 - g. Carol A. McKenna, Pharm.D. (July 1994 - June 1995).
 - h. Jacintha S. Cauffield, Pharm.D. (July 1995 - June 1997).
 - i. Jerry D. Smith, Pharm.D. (July 1996 – June 1998).
 - j. Jim Lewis, Pharm.D. (July 1996 – June 1998).
 - k. Billie Nyugen, Pharm.D. (July 1997 - June 1999).
 - l. Chris Terpening, Pharm D., Ph.D. (July 1999-June 2001).
 - m. John Tovar, Pharm.D. (July 2002 – June 2004)
 - n. Benjamin J. Epstein, Pharm.D. (July 2004 – June 2006)
 - o. Shawn Anderson, Pharm.D. (July 2006 – June 2008)
 - p. Steve M. Smith, Pharm.D. (July 2008 - Present)