

Jean Benson Douglas, BS, PharmD, RPh, FASHP

CURRICULUM VITAE

EDUCATION AND TRAINING

- Certificate of Training, CAE Learning Space® Audiovisual Simulation Program, August, 2017 and June, 2018.
- Certificate of Attendance, University of Toronto Leslie Dan School of Pharmacy, Canada, OSCEOLOGY®, June, 2017.
- Interprofessional Education Seminar, Team of Wake Forest School of Medicine and HPU School of Pharmacy, IPEC, Washington, DC, May, 2017.
- Continuing Interprofessional Education (CIPE) education and training, North Carolina Area Health Education Center Initiative per AHEC Director, 2014 – 2015.
- Pharmacist Leadership Institute, Boston University School of Management and ASHP Foundation, April 25 – 30, 2010. Boston, MA.
- Continuous Professional Development (CPD) training as part of a research study through The University of North Carolina, 2006-2007.
- Green Belt, Moses Cone Health System Quality Leadership Initiative, March 2006.
- The Competitive Edge – Advanced Experimental Training in Conducting and Using Outcomes Studies, ASHP, Certificate, June, 1998.
- NC Center for Pharmaceutical Care, UNC School of Pharmacy, and Greensboro AHEC. Certification in: Preventive Cardiology (Certificate September 1998), Asthma (Certificate January 1999), and Diabetes (1999).
- University of Tennessee Center for the Health Sciences, Memphis, Tennessee, Pharm.D, Pharmacy, 1975.
- The Moses H. Cone Memorial Hospital, Greensboro, North Carolina, Certificate of Residency in Hospital Pharmacy, 1974.
- University of North Carolina at Chapel Hill, B.S., Pharmacy, 1973.
- Benson High School, Benson, North Carolina, 1968.

LICENSURE

State of North Carolina (06123), 1974.

PROFESSIONAL EXPERIENCE

Practice

High Point University School of Pharmacy, High Point, NC

2016 – present Director of Standardized Client Program, Associate Professor

Parexel International, Inc.

2015 - 2016 Consultant, Medical Writer, Medical Writing Services-North America

MedTech Pharmacy, Assisted Living Pharmacy Services, Greensboro, NC

2015 Consultant Pharmacist

Greensboro Area Health Education Center, Greensboro, NC

2014 – 2015 Consultant for Pharmacy Education Programming

Cone Health, The Moses H. Cone Memorial Hospital, Greensboro, NC

1998 – 2013 Clinical Pharmacy Coordinator, Pharmacy Leadership Team

1998 Drug Management Clinic Pharmacist back-up

1985 Assistant Director of Pharmacy Services, Clinical Coordinator

1985 Director of Pharmacy Services Clinical Pharmacology Research and Education Laboratory

1977 Clinical Pharmacy Coordinator

1975 Clinical Satellite Pharmacist

Pharmaceutical Care Practice, Outpatient Setting

1998 – present Clinical Pharmacist and Executive Board, Pharmaceutical Care Network, LLC (PPCN)

1998 – present Owner, Medication Management, LLC (MM) and Medication Management

Partners (MMP)

Academic Appointments

Fred Wilson School of Pharmacy, High Point University, High Point, NC
2016 – present Associate Professor
The University of North Carolina School of Pharmacy, Chapel Hill, NC
2006 – 2013 Adjunct Clinical Assistant Pharmacy, Pharmacy Practice
1986 – 2013 Preceptor, UNC Students
1998 Adjunct Clinical Assistant Professor
1988 Associate Clinical Professor
1986 Assistant Clinical Professor

Membership in Professional and Scholarly Organizations

- American Society of Health-System Pharmacists (current)
- American Society of Patient Educators (current)
- North Carolina Society of Health-System Pharmacists
- North Carolina Pharmaceutical Association
- American College of Clinical Pharmacy (current)
- American Pharmaceutical Association
- North Carolina Association of Pharmacists (also known as NCAP) (current)

Honors and Awards

- Buxton Williams Hunter Award, University of North Carolina School of Pharmacy, 1973.
- Roche Pharmacy Award, 1977.
- Young Careerist for District V of the North Carolina Federation of Business and Professional Women's Clubs, 1979.
- Outstanding Young Woman of America, 1982.
- Greensboro Chapter of the American Cancer Society Service Award, 1982.
- Invited Participant: Special Invitational Conference on Clinical Pharmacy, sponsored by ASHP Research and Education Foundation, February 10 – 13, 1985, Hilton Head, SC.
- Invited Participant: Special Invitational Post Hilton Head Conference, sponsored by NCSHP, August 21 – 23, 1987, Charlotte NC.
- Anticoagulation Traineeship: ASHP Research and Education Foundation, Medical College of Virginia, November 1-7, 1987.
- Recipient: NCSHP Achievement Award, February 4, 1988.
- Invited Participant: ASHP Executive Management Seminar, Kenan Center at UNC Chapel Hill, NC, May 5 – 11, 1990.
- Fellow of The American Society of Hospital Pharmacists, June 5, 1991, San Diego, CA.
- Invited Participant: Faculty for Drug Use Evaluation/Quality Improvement Workshops, sponsored by Enright and Associates, November, 1991.
- Invited Participant: Hospital Pharmacist Management Training Program, ASHP and Burroughs Wellcome Co., November 9-12, 1992.
- Invited Participant: Special conference on the Implementation of Pharmaceutical Care, ASHP Research and Education Foundation, March 12-15, 1993, San Antonio, TX.
- Recipient, NCSHP Distinguished Service Award for 1993, February 10, 1994.
- Program Development: Oncology Traineeship, SunHealth, Director and Lecturer, 1995.
- First place in Moses Cone Hospital Christmas Card Competition, 1995.
- Invited Participant: Integrated Health System Conference, June 1995, Philadelphia, PA.
- Invited Clinical Speaker: SunHealth Pharmacy Advisory Team, 1995, 1996.
- Invited Participant: SunHealth Strategic Planning Initiative, 1996.
- Selected to attend by SunHealth: Managed Oncology Care Forum, February, 1996, San Diego, CA.
- Award Recipient: Don Blanton Award for Outstanding Contributions to Pharmacy in North Carolina During the Past 12 Months, NCPHA, May 24, 1996, Greensboro, NC.
- Program selected for VHA Center of Excellence in Anticoagulation, May, 1998.
- Selected participant: ASHP Outcomes Management Program, 1998.
- Invited participant: VHA Medication Use Project Expert Panel, Cardiology, July 1998.
- Invited member: 1998 National Hospital Pharmacy Quality Award, Abbott Laboratories,

- Inc.
- Proposal accepted for The Moses H. Cone Memorial Hospital to serve as an Anticoagulation Center of Excellence, Novation and DuPont.
 - Invited participant for design and maintenance at Clinical Review Board: VHA Online Oral Anticoagulation Web Site on SecureNet®, 1999 and 2000.
 - Invited Chapter author to update the chapter on Intravenous Medications in Intravenous Therapy, 2000, Editor Judy Hankins.
 - Invited to participate in Informacare® Disease Management Software Evaluation, 2000.
 - Selected as recipient of Scholarship to attend VHA Leadership Conference, April 16-19, 2000, Dallas, TX.
 - Invited participant: Invitational Conference on Infectious Disease for Pharmacists, 2000 – 2011.
 - Award Recipient: 2002 Mobile Master Awards for Enterprise Deployments. Representing Moses Cone Health System: “Disseminating patient information among staff and doctors in private practice boosts efficiency, business,” January 2002, p. 16-26.
 - Interviewed for article and quoted, “Hand-Picked,” Alliance, published for VHA Health Care Organizations, January, 2004, pages 15-18.
 - Invited participant: MCHS Employer of Choice Initiative, April, 2006.
 - Invited Speaker for Dedication of the Earle Yeamans’ Dental Clinic, 2006, Greensboro, NC.
 - Invited participant, Healthcare for the Uninsured, Greensboro Coliseum Special Events Center with Area Legislators, April, 2006.
 - Invited participant, paying for healthcare in North Carolina, Greensboro Coliseum Special Events Center with Area Legislators, October 31, 2006.
 - Advisory Board, HireDynamics® Rx Advisory Board Meeting, November 3, 2006, Grandover Resort, Greensboro, NC, and July 12, 2007, Carolina Inn, Chapel Hill, NC.
 - Bioterrorism Training—BDS Training and Dispensing Exercise for Anthrax Postal Workers, Guilford County Health Department, November 29, 2006.
 - Selected as Process Owner for the MCHS IHI 5 Million Lives Campaign in Anticoagulation, system wide. 2007 – 2010.
 - Anticoagulation Marketing for IHI initiatives recognized via VHA national webinar, 2010.
 - VHA video on implementing patient safety initiatives for anticoagulation in conjunction of the IHI initiative, 2010.
 - Selected as MCHS Process Owner for VTE Core Measures Interdisciplinary Six Sigma Implementation Team, system wide. June, 2009 – 2012.
 - Invited participant, MCHS Magnet Education Planning Committee, system wide, 2010.
 - Selected as participant for Pharmacy Leadership Institute, a program of Boston University, ASHP Foundation, and ASHP. Completed onsite training and practice improving project. April 25 – 30, 2010.
 - Recognition of Six Years of Outstanding Service and Dedication as a Member of the Guilford County Board of Health, Greensboro, NC, July 18, 2011.
 - Invited participant of Cone Health Breakthrough Readmissions-Transitions of Care Strategic Team, Insignium Leadership Consultants, 2012 – 2013.
 - Invited Leader of Patient Safety-VTE Never Event for Cone Health. 2013.
 - The Magnet Writing Team Award for Constructing Magnet Outcomes: Rapid Reversal Protocol. September, 2013.
 - Recipient of Bowl of Hygeia Community Service Award by North Carolina Association of Pharmacists at their Annual Convention. October 21, 2013.
 - Invited author on developing staff in book produced by ASHP, Clinical Pharmacy Coordinator’s Handbook, Chapter 8 on Staff Development. 2016.

CONSULTATIVE APPOINTMENTS

- Chair, Guilford County Health and Human Services Advisory committee to the Guilford County Board of Commissioners, 2017 – 2019.
- Appointed member, Guilford County Health and Human Services Advisory Committee to the Guilford County Board of Commissioners, 2014-present.
- Invited member, Association of North Carolina Boards of Health (ANCBOH), 2016 – present.
- Chair, Guilford County (NC) Board of Health, 2009 – 2011.
- Invited advisor, HireDynamicsRx, 2006 – 2008.

- Vice-Chair, Guilford County Board of Health and Committee Leader, 2004 – 2006.
- Invited member, Pediatrics Networking Group, Novation, 2003- 2004.
- Advisory Board, Ortho Biotech Products Pharmacy Advisory Board Meeting, June 20-21, 2003.
- Invited member, Guilford County Board of Health, appointed by Guilford County Board of Commissioners, February 6, 2003 – July 18, 2011.
- Invited member, Board of Directors, Medication Assistance Program (MAP) and Disease Management, 2000 – 2011.
- Invited speaker, American BioProducts, 2000.
- Advisory Board, Abbott Pharmacy Advisory Panel, 1998 and 1999.
- Clinical Pharmacy Consultant: Moses Cone-Wesley Long Foundation, 1999.
- Advisor, Comprehensive Health Care Program, 1982 – 1986.
- Consultant, Ames Diabetes Advisory Council, 1982, 1983.
- Invited Speaker, DuPont, 1983 – 1986.

COMMITTEE SERVICE

High Point University, Fred Wilson School of Pharmacy

- 2018 – present Member, Assessment Committee
- 2017 – 2018 Member, Curriculum Committee
- 2017 – present Member, Interprofessional Education Plan Committee
- 2016 – 2017 Lead, Interprofessional Education Plan Committee
- 2016 - present Member, GTCC Pharmacy Technology Advisory Board, High Point, NC
- 2017 – present Member, Interprofessional Education Committee
- 2017 – present Advisor of fourteen P1 and P2 students

Cone Health Pharmacy

- 2013 – 2013 Leader of VTE Never Events Safety Team.
- 2012 – 2013 Meaningful Use Team: Stage One of EHR with receipt of \$3.3 million.
- 2012 – 2013 Member, Breakthrough Readmissions Reduction Leadership Team, Transitions Of Care. Multidisciplinary Action-oriented and results oriented team.
- 2011 – 2013 Chair, VTE Core Measures Implementation Team.
- 2011 Leader of the system wide Pharmacy quality initiative for teaching pharmacist responsibility for medication core measures to improve patient outcomes.
- 2011 – 2013 Invited participant, Cone Health Culture of Caring Committee on Healing and the Environment.
- 2008 – 2011 Leader, Magnet Education Planning Team for educating on the new Magnet model via presentations on various campuses and development of a computer-based learning module.
- May 2008 Invited participant, Glucose Meter Selection Committee.
- August 2008 Invited participant, Reigniting the Spirit of Care.
- 2007 – 2011 Process Owner for IHI 5 Million Lives Campaign, Six Sigma Team, and Core Measures for TJC
- 2007 – 2010 Board Committee for Competency Accreditation for The Joint Commission Planning, systemwide.
- 2007 – 2013 Research Committee for Pharmacy Practice Residents and Students.
- 2006 – 2013 Pharmacy Internal Medicine Quality Improvement Bus, member.
- 2006 – 2013 Pharmacy Critical Care Quality Improvement Bus, member.
- 2006 – 2013 Pharmacy Cardiology Quality Improvement Bus, member.
- 2006 – 2013 Pharmacy Surgery Quality Improvement Bus, member.
- 2006 – 2013 Pharmacy Pediatrics Quality Improvement Bus, member.
- November 2006 Presentation of 23.4% Sodium Chloride Protocol to Stroke Team.
- 2006 Established relationship with Wingate University Pharmacy School.
- 2006 – 2007 HIT Laboratory Testing Analysis Team.
- 2006 – 2008 Growth and Opportunity Subcommittee of Employer of Choice.
- 2006 – 2010 Leader, Keeping Magnet Alive Committee.
- 2006 Member, Medication Safety Subcommittee on HIT.
- 2005 Defined marketing strategy for Pediatric Subspecialists in consultation with PICU team, pediatricians, and marketing.

2005 – 2007 Pharmacy Lead, Medication Reconciliation Participant.
 2005 – 2007 DVT Prophylaxis and Prevention Initiative.
 2005 – 2011 Designer, Continuous Professional Development Program.
 2004 – 2009 Leader, Heparin Level Implementation Project.
 2004 – 2005 Chair, HIT Team.
 2003 – 2005 Leader, PICU Implementation Team.
 2004 – 2013 Reviewer, Safety Zone Portals
 2004 – 2005 Participant, Music Medicine Task Force.
 2004 – 2010 Magnet Steering Committee and Champion; onsite presenter, and follow-up committee; Prize for Departmental Magnet Education.
 2000 – 2010 Member, Steering Committee for MCH Manager-Supervisor Forum.
 2000 – 2013 Member, SW Pharmacy Manager’s Leadership Council.
 2002 – 2009 Member, Pharmacy CQI Anticoagulation.
 2002 – 2011 Member, MCHS Antibiotic Subcommittee.
 2001 – 2002 Chair, MCHS Clinical Pharmacist Task Force.
 2001 – 2002 Member, Service Recovery Task Force.
 2001 – 2002 Member, Human Resources Recognition Task Force.
 2001 – 2002 Member, Service Recovery Task Force.
 2001 – 2002 Member, Manpower Task Force.
 2000 – 2002 Intervention and Pharmacist Value Team.
 2000 – 2002 Cost Analysis of Outpatient Warfarin Service for Orthopedics.
 2000 – 2013 Member, Pharmacy and Therapeutics Committee and Agenda Committee.
 1999 – 2002 Competency Assessment Team.
 1997 – 2002 Chair, Clinical Leadership.

The Moses H. Cone Memorial Hospital

2013 Member, Triad Orthopedic Co-Management Service, venture between Cone Health and area orthopedists, for improving quality outcomes.
 2012 – 2013 Cone Health Link (Epic) implementation and planning participation.
 2012 – 2013 Participant for Almaga Clinical Depository as a means to facilitate pharmacist patient monitoring and clinical outcomes.
 2011 – 2013 Participant for VigiLanz® Clinical Decision Support for improving patient Safety.
 2010 – 2013 Pharmacist in charge of orienting new physicians and extenders to Cone Health (one-on-one review of “need to know” processes and formulary).
 2010 System wide video on new Magnet Components: Exemplary Professional Practice. Required of all system wide practitioners.
 2010 Assisted in transition of Talent Acquisition Program (Pinstripe).
 2010 – 2013 Member, Orthopedic CPI Team
 2009 – 2013 Member, Stroke Team
 2009 Updated MCH Anticoagulation Protocol and led disease specific education and discussion
 2009 – 2013 Member of Education/Marketing Committee for Redesignation of Magnet.
 2006 – 2013 Coordinator, New Pharmacist Trainers.
 2006 RCA on HIT and warfarin dosing from inpatient to nursing home.
 2006 Arranged/scripted video on medication reconciliation for *CodeVu* (health system video newsletter).
 2005 – 2006 Member, E-Chart Committee.
 2005 – 2013 Designed and implemented continuous professional development for all departmental employees (Learning Log and Goals Checklist).
 2005 – 2006 Budget justification for 2.0 FTE pharmacists for unit-based practice and 0.5 FTE for pediatrics pharmacist practice.
 2005 – 2007 Director for development of MCH pharmacist recruitment video for web site.
 2005 Proposal for Greensboro Parks and Recreation Trail in Memory of Tom Hilmer, MCH pharmacy employee.
 2004 – 2013 Lead implementer for use of heparin (anti-Xa) levels for dosing heparin and enoxaparin; worked with lab, nursing, medical staffs and pharmacists.
 2004 – 2006 Chair, Heparin-Induced Thrombocytopenia Prevention Multidisciplinary Task Force to reduce the incidence and implement treatment guidelines. Several new policies for the

institution presented to Medical Executive Committee for approval and implementation.

2004 – 2013 Primary Pharmacist Recruiter (screener, ads, pictures, interviews, etc.).

2004 – 2008 Medication Reconciliation Six Sigma Project, Pharmacy Lead Process: design, pilot study, education of physicians, nurses and pharmacy staff. Implementation date July 2006.

2004 – 2013 Leadership Training Checklist for Pharmacists and New Hires: invited speakers to assist with the training.

2003 – 2004 Reviewer, Milrinone Pharmacist Dosing Protocol and CBL.

2002 – 2013 Leader, Patient Safety Planning Group, Heparin-Induced Thrombocytopenia.

2003 – 2013 Pharmacist Trainer, Anticoagulation Dosing Services.

2003 – 2013 Facilitator, MCHS Pharmacy Practice Quality Team.

2003 – 2013 Leader, Pharmacy Unit-Based Decentralized Project.

2003 – 2011 Member, CPI Team, Pediatrics.

2003 – 2011 Lead, Pediatric Intensive Care Unit Planning Team.

1998 Presented outcomes data on fondaparinux (Arixtra®) at P & T Committee.

1998 Presented COX-2 Inhibitors for MCHS Formulary status at P & T Committee.

1998 – 2001 Revised and presented the MCHS Anticoagulation Protocol, P & T Committee.

2001 – 2013 Member, Stroke Clinical Path Team.

1998 – 2001 Member, Core Committee for Pharmacy Decision Making.

2001 – 2013 Member, Pharmacy Orientation Program Planning and Checklists.

2000 – 2011 Team Leader, Palm Implementation Team.

1998 – 2001 Member, American Healthways® Program: incorporating pharmacists into outpatient services.

1998 – 2010 Evaluated and initiated temporary staffing services during staffing crunches.

1998 – 2001 Liaison and trainer for pharmacists of Advanced HomeCare: Anticoagulation.

1998 – 2001 Wrote and presented the Stroke Anticoagulation Protocol, P and T Committee.

1998 – 2001 Liaison with Triad Health Alliance Recruiting.

1998 – 2010 Member, Steering Committee, Manager-Supervisor Forum.

1998 – 2001 Research Advisor to Pharmacy Resident Research projects:

- Use of anti-Xa levels compared to aPTT.
- Impact of Clinical Pharmacist on Cardiac Rehabilitation Program.

1999 – 2013 Coordinate Laboratory and Pharmacist Service Improvement.

1998 Pharmacist Leader, Outpatient DVT Quality Improvement Team.

1998 – 2001 Novation MUE Program Coordinator.

1998 – 2013 MUE Coordinator.

1998 – 2001 Statewide PPO Committee.

1998 Study Coordinator for Pharmacoeconomics Pilot with Med-Link and Greensboro Healthcare Network.

1998 – 2001 Invited participant in Greensboro Healthcare Network's Global Risk Medicare contract with Partners.

1998 – 2001 Member, Cellulitis Path.

1997 – 2005 Member, MCH Education and Research Committee.

1997 – 2005 Member, MCH-UNCG Institute for Science and Society Development.

1998 – 2001 Member, MCH Library Committee.

1998 – 2001 Consultant, MCH OR Lesions Committee.

1997 – 2007 Relay for Life.

1998 – 2002 Member, MCH Technician Retention Task Force.

1998 – 2000 Member, Human Resources Task Force.

1998 – 1999 Participant, ACOS Accreditation Project.

1996 – 1998 Facilitator, MCH United Way and Evaluator Panel.

1998 – 2001 Member, Oncology-New Technology Committee.

1998 – 2001 Coach, Pharmacy Services Steering Committee on expansion of Pharmaceutical Care Practice.

1998 – 2001 Member, Sickle Cell Clinical Path.

1998 – 2001 Member, Program Triad for Oncology.

1998 – 2001 Member, Cancer Committee.

1995 – 2010 Member, Antibiotic Subcommittee of Pharmacy & Therapeutics Committee.

1998 – 2001 Member, DUE Subcommittee of Pharmacy Committee.

1998 – 2001 Member, MCH Hospital-wide TQM team to Improve Communication.

1998 – 2001 Member, Planning Team for Ambulatory Cancer Center.

1995 – 2010 Member of Steering Committee for MCH Supervisors/Managers Forum.
1998 – 2001 Cochair, MCH Pharmacy Leadership Strategic Plan Retreat.
1998 – 2001 Member, SunHealth Cluster Meeting–Central Carolina.
1998 – 2001 Contributor and Planner, MCH Pharmacy Department Newsletter, Pharmacy Pearls.
1998 – 2001 CHF Clinical Path, Invited Guest and Participant.
1998 – 2001 Pharmacy Department Steering Committee.
1998 – 2001 Member, Surgery Clinical Path.
1998 – 2001 Coordinator, Hospice Services.
1998 – 2001 Retention Committee.
1998 – 2001 Performance Management Advisory Group.
1998 – 2001 Communications Task Force.
1998 – 2001 Cochair, Quality Planning Team for the Implementation of Pharmaceutical Care.
1998 – 2010 Pharmacy Coordinator, Health Occupations Fair.
1998 – 2001 Member, Quality Improvement Team on Timeliness of Chemotherapy.
1992 – 2006 Coordinator, Quality Improvement Activities for Dosing Protocols.
1998 – 2001 Pharmacist Consultant for Moses Cone Hospital Extended Care Center.
1998 – 2001 Coordinator, Drug Use Evaluation Subcommittee.
1991 – 2005 Coordinator, Warfarin Orthopedic Outpatient Dosing Service.
1998 – 2001 Coordinator, Nurse Practice Committee- Pharmacy Subcommittee.
1990 – 2013 Coordinator, Pharmacist Training and Skills Building.
1998 – 2001 Facilitator, Pharmacy Oncology Working Group.
1998 – 2000 Member, Pharmacist III Task Force.
1998 – 2000 Coordinator, Heparin Mini-Fellowship.
1998 – 2001 Member, Educational Loan Committee, Moses Cone Hospital.
1990 – 2013 Chairman, Recruitment Committee for Pharmacists.
1998 – 2001 Facilitator, Lead Technician Committee.
1998 – 2000 Member, Order Entry Task Force.
1998 – 1999 Member, Nurse Practice Committee, Pharmacy Subcommittee.
1998 – 1999 Member, Epidural Fentanyl Committee.
1998 Member, Automatic Tablet Counter (ATC) Task Force.
1998 – 2001 Cochairman, The Clinical Protocol Review Committee, a subcommittee of P & T and IRB.
1998 – 2001 Member, Interdepartmental Planning Group-- Oncology Center of Excellence
1998 Chairman, Pharmacy Assistant Task Force.
1998 Member, North Carolina Board of Pharmacy: Nominating Committee for District 2.
1998 Member, Career Ladder Task Force for Pharmacy.
1998 – 2001 Member, Nutrition Support Committee.
1998 – 2001 Chairman, Strategic Planning Task Force.
1987 – 1995 Member, Institutional Review Board.
1987 – 2013 Member, Pharmacy and Therapeutics Committee and member of Drug Use Evaluations Subcommittee, Antibiotic Subcommittee.
1998 – 2001 Member, Professional Advisory Committee, Health Equipment Services of Central Carolina.
1998 – 2001 Member, Utilization Review Committee.
1998 – 2001 Member, Cost Containment in Medical Education Task Force, Pharmacy Subcommittee.
1998 – 2001 Member, Nursing Research Committee.
1998 – 2001 Member, Nursery Committee.
1998 – 2001 Secretary, Nutrition Support Committee.
1987 – 2010 Trainer for New Medical Residents, Orientation.

SERVICE TO PROFESSIONAL OR SCHOLARLY ORGANIZATIONS

2018 Invited surveyor for ASHP Research and Education Forecast 2018.
2015 - Present Editorial Board, NCAP Newsletter.
2014 – 2016 Chapter writer, Developing Staff in Clinical Coordinator’s Handbook, ASHP, Editor Lynn Eschenbacher, 2014.
2012 Provided review of ASHP Position Paper on Anticoagulation.
2010 Spoke on VHA video for VTE prevention, filmed on-site at Cone, 2010.

2006 – 2014 Member, NCAP Education Council-planner of Acute Care Forum and Annual Convention Educational Programs

2006 – 2009 Co leader, NC Leadership Task Force.

2004 – 2009 Invited, UNC Preceptors Meeting and Dinner.

2004 – 2006 Coleader, NCAP Leadership Development Task Force.

2003 – 2004 Invited member, Leadership Development Committee, ACCP.

2002 – 2004 Leader and Planner, NC Clinical Coordinator Forum.

2002 – Present Owner, Medication Management and Medication Management Partners.

2002 Delegate to House of Delegates, NCAP, October, 2002.

1998 – 2001 Member, ACCP Committee on Clinical Affairs.

1998 – 2001 NCAP, Strategic Planning Committee.

1998 – Present Board of Directors and Executive Committee, Piedmont Pharmaceutical Care Network and Contract Committee.

1997 – Present Member and Board Member of Piedmont Pharmaceutical Care Network; Product Development, Credentialing, and Reimbursement.

1998 – 2001 Member, NCPHA Legal and Regulatory Affairs Committee.

1998 – 2001 Member, NCSHP Pharmacotherapy Special Practice Group Advisory Committee.

1998 – 2001 Unification Task Force, NCSHP, NCPHA.

1998 – 2008 Member, UNC School of Pharmacy Admissions Committee.

1997 – 2002 Member, Steering Committee to Establish a Pharmacist IPA; Subcommittees: Business Plan, Reimbursement, and Credentialing.

1998 – 2001 Member, North Carolina Center for Pharmaceutical Care.

1998 – 2001 Member, NCPHA Committee on Ethics and Grievances.

1998 – 2002 Moderator of ACCP's Clinical Path Round Table; Expert for Heart Failure Path.

1998 Invited Speaker: Leader's Forum for NC Board of Pharmacy, Pinehurst, NC.

1998 Invited Participant: UNC's Admissions Committee for External Pharm.D.

1998 – 2001 Chair, Pharmaceutical Care and Practice Committee of NCSHP and NCPHA.

1998 – 2001 Chair, Pharmaceutical Care and Compensation Committee, statewide.

1998 Developed research protocol; writer. (The Asheville Project).

1998 Developed Disease Management Alliance.

1998 Developed network for the North Carolina Center for Pharmaceutical Care.

1995 Program Coordinator, Passport to the Future: Pharmaceutical and Continuity of Care Conference. Greensboro, NC, April 1-2, 1995.

1998 Member, NCSHP and NCPHA: Pharmaceutical Care and Compensation Committee.

1998 Member, Technician Subcommittee from Leader's Forum.

1993 – 2013 Reviewer, Annals of Pharmacotherapy.

1993 – 2013 Reviewer, Abstracts for ACCP Meetings and articles for publication.

1998 – 2001 Reviewer, Journal of Pharmacy Technology.

1998 – 2001 Project Director, Tech Check Tech Task Force of NCSHP.

1998 – 2001 Member, NCSHP and NCPHA: Commission on Pharmaceutical Care.

1998 – 2001 Member, NCSHP: Pharmacy Practice Committee.

1998 Invited Participant for Survey of Pharmacotherapy Practice, ACCP.

1989 – 2009 Moderator/Evaluator, Southeastern Conference for Postgraduate Education and Training, Athens, GA.

1989 – 2014 Reviewer, ACCP Annual and Winter Meetings.

1998 Member, NCSHP: Nominations and Awards Committee.

1998 Member, ACCP: Education Committee.

1998 – 2001 Member, NCSHP: Pharmacotherapy Practice Group.

1998 Chairman, NCSHP: Adult Clinical Pharmacy SIG.

1998 Chairman, NCSHP: Legal and Regulatory Affairs Committee.

1998 Chairman-elect, NCSHP: Adult Clinical SIG.

1996 Participant, First Annual Pharmacy Leadership Forum, Mid Pines, NC, February 8-10, 1986.

1998 Coordinator, Pharmacy Career Day Program, Sponsored by the Greensboro Chamber of Commerce.

1998 – 1999 Member, ASHP: Council on Legal and Public Affairs.

1998 – 2001 Member, NCSHP: SIG Advisory Board.

1987 Member, NCPHA: Public and Professional Relations Committee.

1985 – 1986 Chairman, NCSHP: Past President’s Committee.
 1984 – 1985 President, NCSHP.
 1983 – 1999 Member, UNC School of Pharmacy: Task Force on Professionalism of Pharmacy Students.
 1998 – 1999 Member, ASHP House of Delegates, Legal.
 1984 – 1985 Member, ASHP Demonstration Projects: Grants Selection Panel.
 1983 – 1984 President-Elect, NCSHP.
 1999 – 2001 Member, Greensboro Division, American Cancer Society, Professional Education Committee.
 1998 – 2001 Chairman, NCSHP: Pharmacy Practice Committee.
 1998 – 2001 Reviewer, American Society of Hospital Pharmacists.
 1998 – 2001 Member, NCSHP Board of Directors.
 1998 – 2001 Member, NCSHP: Pharmacy Practice Committee.
 1997 Member, NCSHP: DUR Committee.

TEACHING ACTIVITIES

Fred Wilson School of Pharmacy

2016 National Guidelines and ASHP Forecast in Professional Practice, October.
 2017 & 2018 Residency Programs and Why complete a pharmacy residency, November
 2017 & 2018 Professional Organizations and their role in practice development, October
 2018 Leadership Skills needed for a Health system Pharmacy

The Moses H. Cone Memorial Hospital Pharmacy Residency Program

2014 – 2015 Interview Selection Committee for Residency Candidates
 2005 – 2013 Preceptor and Advisor, Residency Program, Stroke Rotation and Research
 1981 – 2008 Preceptor and Advisor, Residency Program, The Moses H. Cone Memorial Hospital. Rotations: Oncology, Pharmacokinetics, Nutrition, Practice Management, and Stroke/Neuro
 1998 – 2001 Coordinator, Residency Program
 1998 – 2001 Preceptor, Medicine Rotation

UNC Eshelman School of Pharmacy

1998 – 2002 Presenter for North Carolina Association of Students, October 2002.
 1998 – 2013 Mentor and Preceptor, Pre-residency Program/Clinical Scholars.
 1999 – 2005 Member, UNC-CH Pharmacy Admissions Committee.
 1998 – 2013 Preceptor for Outcomes rotation (elective).
 1979 – 2013 Practitioner-Instructor for pharmacy students.
 1996 – 1998 Lecturer for UNC Pharm.D. Class, “Hospital Practice.”

UNC Greensboro School of Nursing

1998 – 2000 The University of North Carolina School of Nursing Graduate Nurse Practitioner Program in Geriatrics- Endocrine Therapeutics

Campbell University School of Pharmacy

1998 Preceptor for Hospital rotation

University of Florida Doctor of Pharmacy Distance Program

2011 – 2013 Preceptor

The Moses H. Cone Memorial Hospital

2013 Speaker on pharmacist’s role in reducing readmissions and transitions of care.
 2012 Speaker on oral anticoagulant reversal therapy, various practitioners.
 2011 Speaker on Exemplary Professional Practice on the required system wide computer based learning module on the new Magnet Components.
 2007 - 2013 Speaker for VTE prevention and improving patient outcomes.
 2004 – 2013 Trainer for anticoagulation and field patient case discussions.
 1998 – 2001 Preceptor and Co-Director of the Pharmacokinetics Fellowship.
 1998 – 2001 Program Director and Lecturer –Acute Care Anticoagulation Minitraineeship

(The Moses H. Memorial Hospital Pharmacy, UNC School of Pharmacy, Greensboro AHEC, and DuPont Pharma).

1998 Pharmacy Department Skills Development Series: Pain Management.
1995 Pharmacy Department Skills Development Series: Heart Failure.
1998 – 2001 Pharmacy Department Skills Development Series: Critical Care – Hemodynamic Monitoring.
1994 – 2013 Implemented and verified clinical competencies for pharmacists.

SunHealth Oncology Traineeship
1998 Program Director and Lecturer

VHA Center of Excellence in Anticoagulation Certificate Program
1998 – 2001 Director and Lecturer

PUBLICATIONS

- Douglas, JB. Staff Development: 10 Factors to Improve Performance, Chapter in Clinical Coordinator's Handbook. ASHP, 2016.
- Douglas, JB. Commenter on ASHP Position Statement in Managing Anticoagulation. 2012.
- Douglas, JB. Review: Competence Assessment Tools for Health-System Pharmacies, 4th Edition, *Journal of Pharmacy Technology*. 2008 Sept/Oct; 24(5):313-4.
- Douglas, JB. Evaluation of anticoagulation outcomes in 83 pulmonary embolism and deep vein thrombosis patients (being prepared for publication).
- Douglas, JB. Interviewed for an article on Clinical Pharmacists, *Pharmacy Times*, fall 2004.
- Douglas, JB. Incorporating PDA technology into pharmacy practice. *North Carolina Pharmacist*. 2001 Fall; 82(4):14-6.
- Douglas, JB. "It's the Journey that Counts." Recruitment tools for pharmacists and pharmacy technicians, 2000.
- Douglas, JB. Pharmacy Research Spotlight, *Moses Cone Research in Review*. 1999.
- Douglas, JB. Change in warfarin (Coumadin) administration time, *Nursing Notables*. 2000 April.
- Douglas, JB. Jump-starting pharmaceutical care. *Pharmacy Times*. 1997 February; 1HPT-5HPT.
- Douglas JB. From drug protocols to disease management via clinical paths. *Pharmacist Letter*. 1995.
- Douglas JB, Tatro L. Fact sheet on how to take medications. The Moses H. Cone Memorial Hospital, 1995.
- Kandrotas RJ, Gal P, Douglas JB, Groce JB. Rapid determination of maintenance heparin infusion rates with the use of non-steady state heparin concentrations. *Annals of Pharmacotherapy*. 1993; 27(1):1429-33.
- Kandrotas RJ, Gal P, Douglas JB, Groce JB. Altered heparin pharmacodynamics in patients with pulmonary embolism. *Therapeutic Drug Monitoring*. 1992; 14:360-5.
- Douglas JB, Terry JG, Bennett AB: New Employee Training Manual. The Moses H. Cone Memorial Hospital Pharmacy. 1991.
- Douglas JB. Pharmacy practice transitions create opportunities: dilemmas in clinical practice. *NCSHP Newsletter*. 1991 August.
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ABSTRACTS

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- Douglas J, et al. Development of a heparin dosing service in a community teaching hospital. Abstract presented at the 14th Annual American Society of Hospital Pharmacists Midyear Clinical Meeting, Las Vegas, Nevada, December 5, 1979.
- Douglas J, Abrams M, Roh J. Development of an enteral nutrition protocol. Abstract presented at the 2nd Clinical Congress of the American Society of Parenteral and Enteral Nutrition, February 2, 1978.
- Douglas J, Martinez D, Sykes T. Comparison of parenteral and enteral feeding. Abstract presented at the 10th Annual ASHP Midyear Clinical Meeting, Washington, DC, December 7-11, 1975.

PRESENTATIONS

- Patient Safety: VTE Core Measures and Meaningful Use for Cone Health Leadership Team, February, 2013.
- Core Measures and Pharmacist's role in improving Patient Care, Annual Clinical Congress of ACCP, Pittsburgh Convention Center, Pittsburgh, PA, October 7, 2011.
- Driving outcomes by pharmacist participation in Core Measures. Annual Convention of NCAP, Sheraton Imperial Convention Center, Research Triangle Park, NC, 2010.
- Connecting the Dots for Anticoagulation Safety, Magnet Convention, Lexington, KY, October 3, 2009.
- Reducing the risks in anticoagulation. 26th Annual American Association of Pharmacy Technicians National Convention, Raleigh, NC, August 9, 2008.

- What's HOT in acute care: delivery of pharmacy services in North Carolina: integrated practice model. 2007 NCAP Annual Convention, Research Triangle Park, NC, October 30, 2007.
- Leadership development via continuous professional development for NCAP members. Leader's Forum of UNC School of Pharmacy, Chapel Hill, NC, September 21, 2006.
- Leadership in North Carolina: clinical pharmacy coordinators. NCAP Annual Meeting, Research Triangle Park, NC, October, 2005.
- Unit-based pharmacy services: pros and cons. Nursing Leadership Council, January, 2004.
- Strategies to prevent heparin-induced thrombocytopenia. MCHS P & T Committee, January, 2004, accepted.
- Recruiting clinical pharmacists. Annual North Carolina Human Resource Conference, Greensboro, NC, 2004.
- Becoming a clinical leader. 4th Annual NC Pharmacy Residents Conference, UNC-Chapel Hill, NC, July 20, 2003.
- Medication management by clinical pharmacists. RACA, Piedmont Triad Council of Governments, January 22, 2003.
- Magic bullet: myths, marketing, and miracles of pharmaceuticals. MCHS Mini-Medical School, Moses Cone Hospital, Greensboro, NC, October 21, 2002.
- Becoming a clinical leader. 3rd Annual NC Residents Conference, Burlington, NC, July 19, 2002.
- Palms in my practice. Carolina Association of Pharmacy Students, UNC-CH, Chapel Hill, NC, October 3, 2002.
- Palms in an integrated pharmacist practice. UNC School of Pharmacy Faculty Retreat Development Series, Chapel Hill, NC, May 23, 2002.
- Advancing pharmacist practice by utilizing palm technology. Mobile Technology Fair, Chapel Hill, NC, March 18, 2002.
- Advancing pharmacist practice by utilizing palm technology. ASHP Management Case Study, Midyear Clinical Meeting, New Orleans, LA, December 5, 2001.
- Becoming a clinical leader. 2nd Annual NC Residents Conference, Burlington, NC, July 20, 2001.
- What clinical pharmacists contribute to patients? NC Health Affairs Guidance Teachers, Greensboro, NC, July 19, 2001.
- Anticoagulation certificate program at Moses Cone Hospital Pharmacy, Novation and DuPont, Orlando, FL, December, 1999.
- IV to PO therapy. Abbott Advisory Panel, Chicago, IL, August 1999.
- Low molecular weight heparin medication use review and action plan. MCHS Pharmacy Committee, October and November 1999.
- Orthopedic anticoagulation patient review and reimbursement for clinical services. January, March, April, May, September, October and November 1999.
- Case presentations for certification. February 5, 1999, October 1998, May 14, 1999.
- Pharmacist outcomes in patient care. Coordinator, Invitational Conference of Clinical Pharmacy Services, Greensboro, NC, July 1999.
- Hospital pharmacy practice lecturer for UNC School of Pharmacy. Chapel Hill, NC, October 13, 1998.
- Innovative Pharmacist Services Learning Center. Guilford County Society of Medicine, Greensboro, NC, April 28, 1998.
- Review of volunteer task force activities and time line. Greensboro, NC, May 3, 1998.
- An operational redesign of pharmacist open heart surgery services. Poster, ASHP Annual Meeting, Baltimore, MD, June 1, 1998.
- Antibiotic therapy considerations. Abbott National Pharmacy Advisory Panel, Chicago, IL, September 10, 1998.
- Setting up a clinical practice in diabetes care. Diabetes Alliance, NCCPC, Greensboro, NC, June, 1996.
- North Carolinians need pharmaceutical care. Invited Presentation for the NC Healthcare Reform.
- Pharmaceutical care and practice committee accomplishments. NC Pharmaceutical Association Annual Convention, Greensboro, NC, May 26, 1996.
- Key practice issues in today's healthcare market. Faculty Retreat for UNC School of Pharmacy, Chapel Hill, NC, May, 1996.

- Invited Presentation: Pharmaceutical Care and Compensation Committee Highlights. NCPHA Convention, May, 1996.
- Pharmaceutical care plan: call for unity and collaboration. Leader's Forum for North Carolina, Pinehurst, NC, February 19, 1995.
- Evaluation of trained pharmacy technicians in identifying dispensing errors. NCSHP Winter Meeting, Greensboro, NC, February 6, 1995.
- Evaluation of trained pharmacy technicians in identifying dispensing errors. Clinical Meeting, Miami, Florida, December 8, 1994.
- Report on research innovations grant. SunHealth Central North Carolina Cluster Meeting. Greensboro, NC, August 2, 1994.
- Pharmaceutical care journey. SunHealth Alliance Cluster Meetings: Fort Lauderdale, Aug. 12, 1994; Lexington, KY, Aug. 22, 1994; Dallas TX, Sept. 12, 1994 and Richmond, VA, March 17, 1995.
- Assessing and improving outcomes of care: a mandate for measuring and monitoring quality, Charlotte AHEC, Charlotte, NC, January 19, 1995.
- Managing Change Workshop. Winston-Salem, NC, November 15, 1994.
- Redeploying pharmacists for pharmaceutical care by redefining the medication distribution system. Winter Meeting of NCSHP, Greensboro, NC, February 10, 1994.
- Outcomes management. Raleigh, NC, Sept. 21, 1995; New Bern, NC, Sept. 22, 1995; Asheville, NC, October 14, 1994.
- Do pharmacist managed protocols fit into pharmaceutical care? ASHP Midyear Clinical Meeting, Atlanta, GA, December 6, 1993.
- Drug usage evaluations: continuous improvement. Raleigh, NC, February 3, 1993; Greensboro, NC, May 16, 1993; New Bern, NC, June 3, 1993.
- Tech check tech validation project. North Carolina Board of Pharmacy, Chapel Hill, NC. Public Hearings, January 19, 1993.
- Implementing pharmaceutical care. Annual Carolina Seminar, Greensboro, NC. October 6, 1992.
- Staff Clinical Activities: "Ask the Experts" Program of SunHealth Managers Conference, Boca Raton, FL, September 3, 1992.
- Financial impact of documented clinical pharmacy services. Annual Winter Meeting of North Carolina Society of Hospital Pharmacists, Charlotte, NC, February 6, 1992.
- Resources: enhancing clinical outcomes through drug use evaluation. Chapel Hill, NC, November 13, 1991.
- Development of clinical drug dosing services. ASHP Midyear Clinical Meeting, Las Vegas, NV, December 5, 1990.
- Heparin dosing using heparin serum concentrations. Fifth Pharmacy Invitational Conference on Anticoagulant Therapy, Las Vegas, NV, December 1, 1990.
- Clinical progress in an integrated model. ASHP Annual Meeting, Hilton Head Poster Session, Boston, MA, June 5, 1990.
- Value and reimbursement for pharmacy services. NCPHA-NCSHP 1990 Management Seminar, Research Triangle Park, NC, May 23, 1990.
- Drug interactions with heparin, heparin circadian effect and key studies documenting therapeutic anticoagulant therapy management for hospital pharmacists: a mini-fellowship. The Moses H. Cone Memorial Hospital, Greensboro, NC, March 5-6, 1990.
- Development of drug therapy monitoring services: clinical services development. ASHP Midyear Clinical Meeting, Atlanta, GA, December 5, 1989.
- Monitoring drug therapy. NCSHP Annual Winter Meeting, High Point, NC, February 5, 1989.
- Development of drug therapy monitoring services-clinical services development. ASHP Midyear Clinical Meeting, Dallas, TX, December 6, 1988.
- Nothing could be finer. Annual Carolina Seminar, Greensboro, NC, October 5, 1988.
- High performance liquid chromatographic determination of indomethacin serum concentrations. HPLC '88. Twelfth International Symposium on Liquid Chromatography, Washington, DC, June 21, 1988.
- Heparin monitoring: a therapeutic approach. Fifth Annual Pharmacotherapy Lectures, Duke University, Durham, NC, May 17, 1988.
- Integrating research into pharmacy practice. NCSHP Award Banquet, Winston-Salem, NC, February 4, 1988.

- Pearls. NCSHP Adult Clinical Special Interest Group Session Moderator, Raleigh, NC, October 7, 1987.
- Evaluation of pharmacokinetic software: Simkin. NCSHP Adult Clinical Special Interest Group Program on Microcomputers and Drug Information, Statistics, and Pharmacokinetics, Greenville, NC, November 22, 1986.
- Pediatric TPN. IV Therapist Annual Meeting, Greensboro, NC, October 7, 1986.
- Quality assurance and reimbursement of clinical pharmacy services. State University of New York at Buffalo. Invited Centennial Celebration Speaker, August 26, 1986; Lecturer to Pharm.D. Class on Nutrition, August 25, 1986.
- Drug considerations for the ostomate. Piedmont Ostomy Association, Greensboro, NC, November 18, 1985.
- Does half a milligram make a difference? NCSHP 19th/12th Annual Carolina Hospital/Clinical Pharmacy Seminar, Greensboro, NC, October 9, 1985.
- Specialized IV therapy seminar. AHEC Workshop, May 9, 1985.
- Effect of warfarin on the PTT. NCSHP, Raleigh, NC, October 11, 1984.
- NCSHP Pharmacokinetics Workshop, Charlotte, NC, November 11, 1983.
- Cyclic TPN. Sixth Annual IV Seminar, Greensboro, NC, October 5, 1983.
- Update on laboratory tests. AHEC Workshop, Greensboro, NC, January 11, 1983.
- New trends in anticoagulant therapy. North Carolina Association of Parenteral Therapy, Raleigh, NC, October 5, 1982.
- Nursing Grand Rounds, April 16, 1982.
- Quality assurance for clinical pharmacy services. American Society of Hospital Pharmacists Midyear Clinical Meeting, New Orleans, LA, December 1981.
- Poison control quality assurance. American Society of Hospital Pharmacists Midyear Clinical Meeting, New Orleans, LA, December 1981.
- Effect of a pharmacist in resistant hypertension clinic. American Society of Hospital Pharmacists Midyear Clinical Meeting, New Orleans, LA, December 1981.
- Benzodiazepines: an update. Medical Conference, The Moses H. Cone Memorial Hospital, Greensboro, NC, November 16, 1981.
- Use of beta-blockers in diabetic patients. NCSHP Annual Fall Clinical Pharmacy Seminar, Raleigh, NC, October 29, 1981.
- Drug-induced skin-reactions. AHEC Workshop, Greensboro, NC, November 18, 1980.
- Drug-induced renal disease. AHEC Workshop, Greensboro, NC, October 21, 1980.
- Drug-induced hematologic disorders. AHEC Workshop, Greensboro, NC, October 14, 1980.
- Drug-induced cardiac disease. AHEC Workshop, Greensboro, NC, September 30, 1980.
- Nutritional support symposium. The Moses H. Cone Memorial Hospital, Greensboro, NC, June 18 and 24, 1980.
- Nutrition support therapy. Medical Conference, The Moses H. Cone Memorial Hospital, Greensboro, NC, May 12, 1980.
- Cardiac drugs and what to teach patients. Guilford County Public Health Department, Greensboro, NC, May 14, 1979.
- Ostomy team approach: Its purpose, limitations and functions. AHEC Workshop, Greensboro, NC, April 11, 1979.
- Intralipid. NCSHP Spring Seminar, Chapel Hill, NC, April, 1978.
- Enteral nutrition protocol. American Society of Parenteral and Enteral Nutrition Clinical Congress, Houston, TX, February 1978.
- Curbside Consultant: nutritional support. American Society of Hospital Pharmacists Midyear Clinical Meeting, December 1977.
- Adolescent suicide: psychoactive drugs. AHEC Workshop, Asheboro, NC, September 30, 1977.
- Comparison of parenteral and enteral feeding. American Society of Hospital Pharmacists Midyear Clinical Meeting, Washington, DC, December 1975.
- Principal Investigator: Grant Award for Resident Fellowship Program in Pharmacokinetics, The Burroughs Wellcome Fund, 1985 (\$37,000).
- Co-Investigator: The Influence of Cimetidine on Lidocaine Pharmacokinetics. The Moses H. Cone Memorial Hospital, 1982 (\$1,500). MercuryMD® RoadShow: Innovations for

**RESEARCH AND
EDUCATIONAL
GRANTS**

- Clinical Pharmacy Practice, May 3, 2006.
- Educational Grant for clinical staff development of pediatric critical care skills. Glaxo Smith Kline, July 2003 (\$500).
- Educational Grant for clinical staff development of critical care skills in Hemodynamic Monitoring and Use of Epo in the Critically Ill. Ortho-McNeil, October 2002 (\$4,450.00).
- Educational Grant for development of Clinical Coordinator Forum in North Carolina. Roche (\$2500).
- Participant writer of grant with the Piedmont Triad Council of Government Agency on Aging for consideration of monies from the Wellness Trust, North Carolina. September, 2002.
- Bayer College Presentation for entire pharmacy staff: Written and Oral Communication with Paul Casella, MFA. August, 2002.
- Educational grant for enhancing resident technology utilization. Amgen (\$5,000).
- Bayer College Presentation for entire pharmacist staff: Mentoring in Medicine and the Biosciences with Kirk Hughes, Ph.D., April 10, 2002.
- Educational grant for enhancing pharmacist practice with PDAs. Wyeth (\$4,000).
- Preceptorships to identify pharmacist value: Merck (\$1,000), Pfizer (\$1,500), and Wyeth (\$2,400).
- Director: Acute to Chronic Care Anticoagulation Center of Excellence for Clinical Pharmacists Certificate Program, Unrestricted Educational grants, Dupont Pharma.
 - \$13,800 1998
 - \$22,000 1999
 - \$25,999 2000
 - \$15,000 2001
- Investigator. Clinical and Economic Benefit to AUIC Analysis in a Critical Care Service. Bayer, 1998 (\$250).
- Co-principal investigator: Integrating Pharmacists across the Patient care continuum, submitted to Moses Cone-Wesley Long Foundation.
- Principal Investigator: Pharmaceutical Care Conference for North Carolina: State Affiliated Chapter Grant. American Society of Health System Pharmacists Research and Education Foundation, 1995 (\$2,000).
- Coordinator: Oncology Traineeship in Pharmacy, Educational Grant. SunHealth, 1995 (\$4,000).
- Principal Investigator: Improving Patient Outcomes in Congestive Heart Failure-Pharmacist Skills Building and Program Development. Merck Human Health, 1995 (\$12,000).
- Co-Principal Investigator: Pharmaceutical Care Project to Measure the Impact of Pharmacists in Improving Patient Outcomes (Diabetes, Asthma, Hypertension). 1995 (\$10,000).
- Principal Investigator: Tech Check Tech Validation Project. SunHealth Innovation Grant, 1993 (\$5,000).
- Co-Principal Investigator: Cost Effectiveness of Heparin Dosing Guided by Serum Levels. Upjohn, 1988 (\$1,500).
- Co-Principal Investigator: Evaluation of Heparin Serum Level Concentrations via ACA Chromogenic Substrate Method in DVT and PE Patients. DuPont, 1988 (\$28,000).
- Co-Principal Investigator: Heparin Dosing Guided by Blood Levels and Pharmacokinetic Adjustment. Hemotec, Inc., 1987 (\$22,975.75).
- Demonstration Project Award of ASHP, Principal Investigator: Heparin Dosing Based on Computer Assisted Drug Assay Interpretation Using the Chiou Kinetic Model. 1985 (\$4,982).
- **HPU Growth Mindset SOTL Research Grant Application: Serious Gaming**
Aim 1: Produce a serious game based on the four domains of IPE that incorporates growth mindset principles into the game's mechanics and content.
Aim 2: Increase engagement in and comprehension of IPE through the game to meet established learning outcomes.
 - Awarded July, 2018.
 - \$6500 by QEP SOTL grant, High Point University (co-principal investigator).

