

CURRICULUM VITAE**Marion Kimball Slack****Education**

- 1989 Doctor of Philosophy in Pharmacy Administration, College of Pharmacy, The University of Arizona, Tucson, Arizona
- 1987-89 Doctor of Philosophy Candidate in Pharmacy Administration, College of Pharmacy, University of Arizona, Tucson, Arizona
Doctoral Thesis: An Information Processing Model of Pharmacists' Cognition: Research on Typicality Biases in Performance. The purpose of this research was to develop a cognitive model of the process practitioners use to recognize the meaning of clinical information and make clinical judgments and decisions related to patient care. A laboratory procedure for testing the effects of typicality on information processing was developed in which information related to clinical problems is shown on a microcomputer screen and subjects are asked to respond. Three groups of subjects were tested, practicing pharmacists, pharmacy technicians and pharmacy students.
- 1984-87 Doctor of Philosophy Student in Pharmacy Administration, University of Arizona, Tucson, Arizona
- 1984 Master of Arts in Curriculum and Instructional Systems, College of Education, University of Minnesota, Minneapolis, Minnesota
Master's Thesis: Operational Correspondence: Implications for Continuing Education in Pharmacy. A systematic procedure using lesson components was developed to describe the learning requirements for the concepts used by pharmacists in their practice. A survey of professional literature related to the release of a new drug (nifedipine) revealed that the literature does not contain the information that pharmacists need to learn new practice concepts.
- 1969 Bachelor of Science in Pharmacy, University of Kentucky, Lexington, Kentucky

Major Research Interests

1. Health of underserved populations particularly how community health can be improved through collaboration with universities and the role that students can have in working with underserved populations.
2. Research design as it relates to validity and potential for bias. Research interests include all aspects of research design as it relates to validity. For example, identifying the particular validity issues associated with specific designs, identifying methods to reduce the impact of specific design characteristics on validity, and identifying the information needed to adequately assess potential for bias. Research interests extend to education and the use of concept theory to promote learning in research design.
3. Systematic review and meta-analysis, particularly the use of meta-analysis to explore factors related to heterogeneity in findings among studies examining similar interventions. Particular areas of interest are the relationship of study design to reported impact and the range of study designs used.

Professional Experience

- 2007-present Professor, College of Pharmacy, University of Arizona, Tucson, Arizona.
Joint Appointment, Division of Health Promotion Sciences, College of Public Health, University of Arizona, Tucson, Arizona.
Supervisor: Dr. Marie Chisholm-Burns
Nature of work: Co-instructor for a course on methodology in pharmacy research, PhPr 861b. Rotation preceptor for students participating in rural health project and faculty advisor of interdisciplinary student teams during their practicum. Course coordinator for PhPr 862, Writing a Proposal for a Scientific Study, PhPr 896a, Senior Projects. Coordinator for Rural Health Professions students. Course coordinator for PhSc 543, Health Services Research.
- 2003-2006 Associate Professor, College of Pharmacy, University of Arizona, Tucson, Arizona.
Joint Appointment, Division of Health Promotion Sciences, College of Public Health, University of Arizona, Tucson, Arizona.
Supervisor: Dr. John E. Murphy
Nature of work: Co-instructor for a course on methodology in pharmacy research, and graduate level course in research design. Rotation preceptor for students participating in rural health project and faculty advisor of interdisciplinary student teams during their practicum. Course coordinator for PhPr 862, Writing a Proposal for a Scientific Study, PhPr 896a, Senior Projects. Coordinator for Rural Health Professions students. Course coordinator for PhSc 543, Health Services Research.
2005-2006: Interim Director of Graduate Program Track in Pharmaceutical Economics, Policy, and Outcomes.
- 2002-2003 Research Associate Professor, College of Pharmacy, University of Arizona, Tucson, Arizona.
Supervisor: Dr. John E. Murphy
Nature of work: Director of student research projects. Course coordinator for a graduate level class in research methods, lecturer in a professional course on pharmacy research methods, and lecturer in a class on rural health. Faculty advisor to pharmacy students participating in rural health training and faculty advisor of interdisciplinary student teams in a rural communities.
- 1992-2002 Assistant Research Scientist, College of Pharmacy, University of Arizona, Tucson, Arizona
Supervisor: Dr. John E. Murphy
Nature of work: Co-instructor for a course on methodology in pharmacy research, lecturer in pharmacy administration class. Clerkship preceptor for students participating in rural health project and faculty advisor of interdisciplinary student teams during their ten-week practicum. Member of an interdisciplinary faculty team that teaches the "Issues in Rural Health" class.
- 1991-1992 Adjunct Lecturer, College of Pharmacy, University of Arizona, Tucson, Arizona
Supervisor: Dr. John E. Murphy
Nature of work: Assistant instructor for the patient counseling class; co-instructor for a course on methodology in pharmacy research. Clerkship preceptor for students participating in the rural health project and faculty advisor of inter-disciplinary student teams during their ten-week field experience in three communities in a rural county.
- 1989-1991 Adjunct Lecturer, College of Pharmacy, University of Arizona, Tucson, Arizona
Supervisor: Dr. Lon N. Larson
Nature of work: Course coordinator for a course in health care systems. Coordinator of the graduate seminar and assist with a graduate level course on

- pharmacy and its environment. Co-instructor for a course on methodology in pharmacy research.
- 1987-1989 Teaching Assistant, College of Pharmacy, University of Arizona, Tucson, Arizona
Supervisor: Dr. William F. McGhan, Dr. JoLaine Draugalis
Nature of work: Teaching assistant for a course in health care systems and society and for a course in biomedical statistics. Responsibilities include presenting some lectures, writing and grading exams and conducting a weekly discussion group.
- 1984-1989 Ph.D. Student in the Department of Pharmacy Practice, College of Pharmacy, University of Arizona, Tucson, Arizona
Major professor: Dr. William F. McGhan
Nature of work: Graduate students attend classes and participate in seminars; each student must present at least one seminar a year. Since I am interested in the philosophy of science, I prepared an additional seminar on "Medical Paradigms and the Practice of Pharmacy". The objectives of this presentation were: (1) to describe the major paradigms of medicine and how these paradigms influence the practice of pharmacy and (2) to describe possible implications for research, education and practice in pharmacy.
- 1985-1987 Research Associate at the College of Pharmacy, University of Arizona, Tucson, Arizona
Supervisors: Dr. Theodore Tong and Dr. William McGhan
Nature of work: As a research associate, I participated in a study of the Pharmacy College curriculum. Pharmacy colleges are attempting to make their curriculum competency based; the purpose of this project was to develop a database, using D-base III, which would contain the competency statements that serve as a basis for curriculum development. A survey instrument was developed from the competency database and used to survey the faculty to determine the amount of curriculum time that was being devoted to each competency. I was responsible for developing the database, the survey instrument, collection of data and the analysis and presentation of the results.
- 1981-1984 Master of Arts Student in the Department of Curriculum and Instructional Systems, College of Education, University of Minnesota, Minneapolis, Minnesota
Supervisors: Dr. William D. Phillipson and Mr. Ronald Brockmeir, Assistant Director of Pharmacy, University of Minnesota Hospitals
Nature of work: I pursued a degree in instructional design with Dr. Phillipson as my major professor but I did my course projects, such as designing a programmed learning text for training technicians to use a computer terminal, in pharmacy in collaboration with Mr. Ronald Brockmeir.
- 1976-1981 Staff pharmacist at Metropolitan Medical Center, Minneapolis, Minnesota
Supervisors: Mr. Robert Nordin, Pharmacy Director, and Mr. George Wise, Assistant Director
Nature of work: I worked as a staff pharmacist in the central pharmacy on weekends and evenings. I was one of the pharmacists responsible for providing pharmacy service to patients in the hospital and to patients seen in the emergency room who needed prescriptions filled. Since I worked evenings and weekends, the majority of the people I worked with were students or pharmacy interns. Thus it was necessary for me to assume some responsibility for coordinating and directing staff efforts to provide service. In this role, I became acutely aware of each person's capabilities and how students learned the professional skills needed to practice pharmacy.

- 1974-1975 Staff pharmacist at Good Samaritan Hospital, Lexington, Kentucky
Supervisor: Mr. Thomas Watson, Pharmacy Director
Nature of work: I was one of the pharmacists responsible for providing pharmacy service to patients in the hospital and to patients seen in the emergency room who needed prescriptions filled.
- 1973-1974 Relief pharmacist at St. Joseph's Hospital and Central Baptist Hospital in Lexington, Kentucky; also for Glen's Drug in Paris, Kentucky
Supervisors: Mr. Rothwell, Mr. Carl Beck and Mrs. Glen Culbertson
Nature of work: I was one of the pharmacists responsible for providing pharmacy service to patients in the hospital and to patients seen in the emergency room who needed prescriptions filled.
- 1970-1973 Lived in Thailand and did consulting work for the Maranatha Clinic in Khon Kaen, Thailand
Supervisor: Dr. John Peyton
Nature of work: The primary function of Maranatha Clinic is to provide medical care to people who have leprosy; the clinic was part of an effort to treat and rehabilitate leprosy patients. Since the clinic did not have a pharmacist on their staff, I provided some of their pharmacy services. I was responsible for the organization of their drug stores and for compounding the special ointments for treatment of skin lesions secondary to the disease process.
- 1969-1970 Pharmacy Intern at Central Baptist Hospital, Lexington, Kentucky
Supervisor: Mr. Carl Beck, Pharmacy Director
Nature of work: I provided pharmacy services to hospital patients and emergency room patients under the supervision of other pharmacists.

Original Licensure

Pharmacist, State of Kentucky

Honors and Awards

Prepharmacy: Phi Beta Kappa
Pharmacy: Dean's List
Ph.D. Studies: Rho Chi
Who's Who in Science and Engineering, 1992-1993
Women in Pharmacy Leadership Directory
Certificate of Recognition for Outstanding Student Support: 1994
Innovation in Teaching Awards for Pharmacy Faculty, American Association of Colleges of Pharmacy: Honorable Mention, 1996
Innovation in Teaching Awards for Pharmacy Faculty, American Association of Colleges of Pharmacy: Honorable Mention, 1999 (With JoLaine Draugalis, Ph.D., for *A Continuous Quality Improvement Model for Developing Innovative Instructional Strategies*)
Co-advisor (with Suzanne Campbell, Pharm.D.) to Wisam Younis, ASHP Student Research Award Winner. (1999)
Educator of the Year Award, Class of 2000, University of Arizona, College of Pharmacy. (2000)
Member, Sigma Xi, The Scientific Research Society. (2000)
Senior Research Project recognized as a Noteworthy Practice by ACPE (I am course coordinator for senior projects) June 2011.
ASHP Foundation Literature Awards Program's Pharmacy Practice Research Award with Chishom-Burns et al. (2011)

Research Grants

1. Title: Grants for Interdisciplinary Training for Health Care for Rural Areas. Ilene Gordon, Dr.P.H., Principal Investigator.
The goals of the project are to increase the availability of health services, train an interdisciplinary team of faculty, and to train students to work as members of an interdisciplinary team. The grant is for \$299,000 for three years, Marion Slack (18% time) to supervise pharmacy students and faculty advisor during summer practicum.
2. Title: Assessing the Financial Impact of Clerkship Placements
This grant was submitted with Dr. JoLaine R. Draugalis as principal investigator. The purpose of the grant is to identify the financial arrangements colleges of pharmacy have with clerkship sites and to assess the costs and benefits of clerkship students to the clerkship site. Funded by the GAPS program for \$30,654.
3. Title: Focus Groups for Asthmatic Adolescents
This study was to collect data on the effects that having asthma and taking medications has on an asthmatic adolescent's quality-of-life. Funded by Glaxo for \$24,000. Marion Slack, principal investigator.
4. Title: A Guide to Preparing a Policy and Procedure Manual for Pharmacy Support Personnel
This project involved writing a technician manual for the Arizona Pharmacists Association; funded for \$200. Marion Slack, principal author.
5. Title: Grants for interdisciplinary training for health care in rural areas.
This grant from the Bureau of Health Professions is to establish an interdisciplinary training program for pharmacy, nursing, social work, and master's in public health students in the Community Health Center in a rural community on the Mexican border. It is funded for three years, 1994-1997; \$575,000, Marion Slack, Principal Investigator.
6. Title: Grants for interdisciplinary training for health care in rural areas.
This grant from the Bureau of Health Professions is to increase interdisciplinary training for pharmacy, nursing, social work, medical, and master's in public health students. Students may learn case management or community health in a rural community located on the Arizona-Mexican border. It is funded for three years, 1997-2000; \$588,830, Marion Slack, Principal Investigator.
7. Title: People with Disabilities Project
This grant is from the People with Disabilities Project of the Pima Prevention Partnership to develop a questionnaire for assessing risk for substance or alcohol abuse for people who have disabilities. Funded for \$5000, Marion Slack, Principal Investigator.
8. Title: Grants for interdisciplinary training for health care in rural areas.
This grant from the Bureau of Health Professions is to increase interdisciplinary training for pharmacy, nursing, social work, medical, nutrition, and master's in public health students. Students provide case management for diabetic, Hispanic patients or participate in community health in a rural community located on the Arizona-Mexican border. It is funded for three years, 2000-2003; \$746,000, Marion Slack, Principal Investigator.
9. Title: Grants for interdisciplinary training for health care in rural areas.
This grant from the Bureau of Health Professions is to increase interdisciplinary training for pharmacy, nursing, social work, medical, nutrition, and master's in public health students. Students provide case management for Health Start patients or participate in community health in a rural community located on the Arizona-Mexican border. It is funded for three years, 2003-2006; \$821,725, Marion Slack, Principal Investigator.
10. Title: A Shared Advisor Model for Undergraduate Pharmacy Students Conducting Research.

This grant is from the Arizona Board of Regents to encourage learner centered education. The purpose of the grant is to develop support through a class and a web site for students completing their senior research projects. The increased support for students should improve the research experience for students while decreasing the burden of being a project advisor for faculty.

\$24,722, Marion Slack, Principal Investigator

11. Title: VIHSTA--Interprofessional Training for Health Sciences Students in Arizona
This grant from the Arizona Area Health Education Centers is to increase interprofessional training for pharmacy, nursing, medical, and public health students at the University of Arizona and dental hygiene, health education, and nursing students from Northern Arizona University. Students participate in community health in a rural communities, either Chinle on the Navajo Reservation or Nogales located on the Arizona-Mexican border. It is funded for one year, 2007-2008; \$549,717, Marion Slack, Principal Investigator.
12. Title: VIHSTA--Interprofessional Training for Health Sciences Students in Arizona
This grant from the Arizona Area Health Education Centers is to increase interprofessional training for pharmacy, nursing, medical, and public health students at the University of Arizona and dental hygiene, community health, physical therapy, and nursing students from Northern Arizona University. Students can participate in community health in a rural communities, including Chinle on the Navajo Reservation, Nogales located on the Arizona-Mexican border, Globe, or Phoenix. It is funded for one year, 2008-2009; \$399,687, Marion Slack, Principal Investigator.
13. Title: Developing a Model for Enhancing Community Resilience Through Student Training Programs
This grant from St Luke's Health Initiatives is to determine how communities define community resilience and to identify how the VIHSTA program may have affected community resilience. Additionally, information was obtained on how community members think we can modify the VIHSTA program so that it better meets community needs. It was funded for \$36,000 for one year. 2009-2010. Marion Slack, Principal Investigator.
14. Demonstrating Pharmacists' Impact on Therapeutic, Safety, Humanistic, and Economic Health Outcomes: A Systematic Review and Meta-analysis. Marie Chisholm-Burns, Pharm.D., PI. The purpose of this grant was to identify the studies that reported on patient outcomes for pharmacist provided services then to review them and conduct a meta-analysis of the randomized controlled trials. I assisted with the design of the study and I did the data analysis portion of the study. Funded for \$65,000 for one year. Marion Slack, Co-Investigator.
15. Title: VIHSTA--Interprofessional Training for Health Sciences Students in Arizona
This grant from the Arizona Area Health Education Centers is to increase interprofessional training for health sciences students in rural communities in Arizona. The purpose of this year's grant is to develop a core interprofessional experience in community health that can be operationalized and supported by the regional AHEC offices and that could serve as the basis for applying for grant funding. It is funded for one year, 2011-2012; \$132,543., Marion Slack, Principal Investigator.

Student Pharm.D. Projects Supervised

1990-1991	"Crossover Designs in Pharmacy Research," Rebecca Cody. Project Advisor: Marion Slack, Ph.D.
1991-1992	"Needs Assessment for a Third Class of Drugs," Nancy Alvarez. Project Advisor: Marion Slack, Ph.D.
	"Pharmacist's Job Satisfaction: Urban versus Rural," Michelle Kikuchi. Project Advisor: Marion Slack, Ph.D.
1992-1993	"Factors Affecting the Recruitment and Retention of Pharmacists: Urban versus

- Rural," Raymond Dunn. Project Advisor: Marion Slack, Ph.D.
- "The Effect of Supplemental Label Information on Drugs Intended for Intravenous Use in Pharmacy Students' Decision to Prepare Such Medications," Lupe Cajero-Suratt. Project Advisor: Marion Slack, Ph.D.
- "Strategies Used by Pharmacists to Influence Physician Prescribing: Urban versus Rural," An Thanh Pham. Project Advisor: Marion Slack, Ph.D.
- "A Review of Random Selection, Random Assignment, and Risk Statistics Used in Clinical Research," Assma Borham. Project Advisor: Marion Slack, Ph.D.
- 1993-1994 "Patient Satisfaction with Mail Order Pharmacy Services," Say Tsai. Project Advisor: Marion Slack, Ph.D.
- "Access to Prescription Medication in a Mexican Pharmacy: Mexican versus American Patrons", Sofia Gonzalez. Project Advisor: Marion Slack, Ph.D.
- "Effect of Gender and Experience on the Perceived Effectiveness of Pharmacists' Counseling," Melody Elele. Project Advisor: Marion Slack, Ph.D.
- 1994-1995 "Physician Treatment Strategies for Recurrent Peptic Ulcer", Arif M. Quraishy. Project Advisors: Marion Slack, Ph.D. and James Ritchey, Pharm.D.
- "Attitudinal Differences Among Pharmacy, Nursing, and Medical Students Regarding Diabetes", Dawn M. Kilbur. Project Advisors: Suzanne Campbell, Pharm.D. and Marion Slack, Ph.D.
- 1995-1996 "Audit of Prescriptions with Insurance Problems in a Community Pharmacy", Kathleen Remley. Project Advisor: Marion Slack, Ph.D.
- "The Role of Pharmacy in Interdisciplinary Case Management", Erin Dunn. Project Advisor: Marion Slack, Ph.D.
- "Identification of Maternal Medication Management Issues in Rural Health Care", Greg Kidd. Project Advisor: Marion Slack, Ph.D.
- "Role of the Pharmacist in Poison Prevention and Home Safety: An Educational Intervention", George Campos. Project Advisor: Marion Slack, Ph.D.
- "An Evaluation of the Use of, Knowledge about, and Attitudes Toward Hormone Replacement Therapy in Women Living in a Small, Rural Community", Nolan K. Soloman. Project Advisor: Marion Slack, Ph.D.
- 1996-1997 "The Practice of Self-Treatment in Mexican Pharmacies by Mexicans and Americans", Anna De La Huerta. Project Advisor: Marion Slack, Ph.D.
- 1997-1998 "Shifting Pharmacy to the Forefront: Emphasis on Primary Prevention", Daniela Heinrick. Project Advisor: Marion Slack, Ph.D.
- "A Key Informant Survey of Structural, Process, and Outcome Factors that may Affect Self-Management of Diabetes of Hispanic Patients", Edward Narbuth. Project Advisor: Marion Slack, Ph.D.
- 1998-1999 "The Use of Alternative Products in Treating Obesity with Tucson, Arizona and Nogales, Mexico Border Towns", Elizabeth Sanchez.

Project Advisor: Marion Slack, Ph.D.

"Identifying the Needs of Diabetic Patients Using a Quality Assurance Checklist", Lisa Ranellone. Project Advisor: Marion Slack, Ph.D.

"Community Level Assessment of Fluoride Exposure and Oral Health in Nogales, Arizona", Yolanda Lopez. Project Advisor: Marion Slack, Ph.D.

"A Virtual House for Educating Parents in Poison Prevention", Adam Cox. Project Advisor: Marion Slack, Ph.D.

"An Assessment of Need Regarding Adolescent Pregnancy Prevention in a High School", Venisha Leffler. Project Advisor: Marion Slack, Ph.D.

"A Prenatal Care Needs Assessment Performed at a High School", Christine Sanchez. Project Advisor: Marion Slack, Ph.D.

"Evaluation of Patient Education on Insulin Syringe Disposal Behavior", Cathy Y. Moniz. Project Advisors: Suzanne Campbell Pharm.D. and Marion Slack, Ph.D.

"The Relationship between Pharmacists' Attitudes toward Diabetes and their Involvement in Diabetes Education", Wisam Younis. Project Advisors: Suzanne Campbell, Pharm.D. and Marion Slack, Ph.D.

"A Survey of Pharmacy Students' Knowledge and Attitudes Regarding Alternative Therapy", Jane Zhang. Project Advisors: Kathryn L. Grant, Pharm.D. and Marion Slack, Ph.D.

1999-2000

"A Needs Assessment of Flagstaff, Arizona, for the Development of a Smoking Cessation Program", Jennifer Ruitter. Project Advisor: Marion K. Slack, Ph.D.

"Availability of Health Promotional Services in the Community Pharmacy from a Consumer's Point of View", Hien Tran. Project Advisor: Marion K. Slack, Ph.D.

"An Educational Intervention for Improving the Oral Health of a High Risk Population", David T. Wang. Project Advisor: Marion K. Slack, Ph.D.

"Factors Impacting Self Management of Diabetes Treatment Regimens", Nat Bell. Project Advisor: Marion K. Slack, Ph.D.

"The prevalence of overweight, school-aged children from Nogales, Arizona as compared to state and national averages". Mary Jo Boot. Project Advisor: Marion K. Slack, Ph.D.

"A survey of medical and nursing students' knowledge and attitudes regarding alternative therapy". Candy Davis. Project Advisors: Kathryn L. Grant, Pharm. D., Marion K. Slack, Ph.D.

"Obsessive-compulsive behaviors in pharmacy students", Lori L. Pearl. Project Advisors: Martha P. Fankhauser, M.S., Marion K. Slack, Ph.D.

"Effect of diabetes education on patient knowledge, self-efficacy and behavior change". Joy Dunkelbarger-Reed. Advisors: Suzanne Campbell, Pharm. D., Marion K. Slack, Ph.D.

"A survey of the University of Arizona College of Pharmacy Students' Attitudes and Behaviors Regarding Substance Abuse". Joy Forrester. Advisors: Martha P.

Fankhauser, M.S., Marion K. Slack, Ph.D.

2000-2001

“Comparison of two internet-based visual programs to teach the lay public about toxic household products”. Susan A. Hatcher. Project Advisors: John C. Gilkey, Ph.D., Marion K. Slack, Ph.D.

“An internet program for learning pharmacy-related Spanish”, Juan Cerda. Project Advisor: Marion K. Slack, Ph.D.

“Obesity in Hispanics with diabetes”, Farnoosh Moshkriz. Project Advisor: Marion K. Slack, Ph.D.

“A needs assessment of the support services for cancer patients in Morenci, Arizona”, Nicole Lundell. Project Advisor: Marion K. Slack, Ph.D.

“Tobacco use and oral health”, Nancy Liu. Project Advisor: Marion K. Slack, Ph.D.

“Comparative analysis of the Diabetic care needs of the Nogales, Arizona, community”, Danelle Hunter. Project Advisor: Marion K. Slack, Ph.D.

“A Crossover comparison of the antihypertensive effectiveness between metoprolol twice daily and topol XL once daily”, Bernadette Urlea. Project Advisors: Greg Houlihan, Pharm.D., Marion K. Slack, Ph.D.

“Patient satisfaction of metoprolol twice daily and topol XL once daily”, Florin Urlea. Project Advisors: Greg Houlihan, Pharm.D., Marion K. Slack, Ph.D.

“Evaluating randomized controlled trials of complementary and alternative medicine for breast cancer”, Tram Tran. Project Advisor: Marion K. Slack, Ph.D.

“An assessment of the risk factors that patients believe impact their management of diabetes”, Neil Coronado. Project Advisor: Marion K. Slack, Ph.D.

2001-2002

“Comparing the prevalence of obesity found in studies set in a primary care or school setting to those results found in NHANES III”, Aeon Munkittrick, Project Advisor: Marion K. Slack, Ph.D.

“A needs assessment for emergency care in Florence, Arizona”, Deanna Dawson, Project Advisor: Marion K. Slack, Ph.D.

“A descriptive analysis of pharmacy student perceptions regarding spiritual care”, Dax Quelland, Project Advisor: Marion K. Slack, Ph.D.

“Pharmacists’ ratings of various employment benefits or factors as a predictor of continued employment”, Sylbe L. Paris, Project Advisors: Edward Armstrong, PharmD, Marion K. Slack, Ph.D.

“Cost-outcome description of a promotora program for diabetes care in an underserved Hispanic population”, Rhonda Black, Project Advisor: Marion K. Slack, Ph.D.

“The impact of an interdisciplinary team on domestic violence policies and procedures in a unique rural community”, Jason Gilray, Project Advisor: Marion K. Slack, Ph.D.

"The effects of sleep deprivation in pharmacy students", Lynsey A. O'Leary, Project Advisors: Martha Fankhauser, M.S., Marion K. Slack, Ph.D.

"The assessment of smoking-related issues among a sample of chain pharmacists", Jill Mehrer, Project Advisor: Marion K. Slack, Ph.D.

"Prevalence of Type 2 diabetes in Hispanic women after pregnancies complicated by gestational diabetes", Terry Namkoong, Project Advisor: Marion K. Slack, Ph.D.

"A cost outcome description of an obesity intervention to prevent diabetes in children/adolescents", Justin Mendoza, Project Advisor: Marion K. Slack, Ph.D.

"A retrospective chart review of antibiotic regimens for community-acquired pneumonia at Kino Community Hospital", Mahendra Patel, Project Advisors: Dave A. Apgar, PharmD, Marion K. Slack, Ph.D.

2002-2003

"The frequency of ADHD and current treatment in a chemically dependent inpatient population", Rachel Goodman, Project Advisor: Marion K. Slack, Ph.D.

"An assessment of perceived level and sources of stress in pharmacy students at the University of Arizona", Lily Chao, Project Advisor: Marion K. Slack, Ph.D.

"A survey analyzing the relationship between exercise and attitudes/behaviors toward substance use in University of Arizona students", Chuck Leong, Project Advisor: Marion K. Slack, Ph.D.

"Assessing the effect of malnutrition and diabetes on hospital costs and length of stay", Lance Takacs, Project Advisor: Marion K. Slack, Ph.D.

"Evaluating the relationship between post-graduate training and pharmacists' job satisfaction and income", Jennifer Reed, Project Advisor: Marie Gardner, PharmD, and Marion K. Slack, Ph.D.

"Gender differences amongst college students regarding behaviors about oral hygiene," Masood Baradaran, Project Advisors: Marion K. Slack, Ph.D, Carl Labbe, RPh.

"An exploratory study of instruments for assessing the quality of randomized controlled trials", Aurora Breckenfeld, Project Advisor: Marion K. Slack, Ph.D.

"Exercise level among pharmacy students and its correlation with substance use and attitudes", Peter Laluk, Project Advisor: Marion K. Slack, Ph.D.

2003-2004

"Adverse drug reactions with diabetic medications in a primarily Spanish speaking population", Laura Pedrego, Project Advisor: Marion K. Slack, Ph.D.

"Systematic Review of Diabetes Prevention Trials", Tracy Tran, Project Advisor: Marion K. Slack, Ph.D.

"The impact of job satisfaction on job retention in retail pharmacy", James Andrew Davenport, Project Advisor: Marion K. Slack, Ph.D.

"Comparison of hypoglycemic episodes between different age groups treated with insulin in a pediatric intensive care unit", Elizabeth Ngo, Project Advisor: Marion K. Slack, Ph.D.

- “A comparison of scales for assessing the internal validity of randomized controlled trials”, Erin L. Fetterly, Project Advisor: Marion K. Slack, Ph.D.
- 2004-2005
- “An assessment of factors affecting rural pharmacists and their ability to counsel patients and provide pharmaceutical care”, Amanda Davis, Sarah Terminelli, Project Advisor: Marion K. Slack, Ph.D.
- “Factors affecting selection of pharmacy as a profession: students vs. practitioners”, Hal Measom, Robert Montierth, Project Advisor: Marion K. Slack, Ph.D.
- “Pharmacy students training in smoking cessation and confidence in implementing interventions in the practice setting”, Desiree’ Tilbury, Project Advisor: Marion K. Slack, Ph.D.
- “Knowledge of obesity prevention in pharmacy students”, Maria Virgen, Cesar Marroquin, Project Advisor: Marion K. Slack, Ph.D.
- “Review of adherence in meta-analyses of exercise interventions”, Jeffery Bae, Robert Kobleski, Project Advisor: Marion K. Slack, Ph.D.
- “Adherence to mood stabilizers using pharmacy prescription database analysis: Assessment of the relationship of non-adherence to hospitalization rates, cost of care, and gender for patients with bipolar type I disorder”, Andrea Kale, Yuliya Kuchanskaya. Project Advisors: Martie Fankhauser, M.S., Marion Slack, Ph.D.
- 2005-2006
- “Comparing the absorption of different hormone delivery systems: A systematic review”, Tanya Araya, Katie Coates. Project Advisors: Dana Reed-Kane, Pharm.D., Marion Slack, Ph.D.
- “Comparison of tacrolimus and pimecrolimus ophthalmic for the treatment of KCS in canines”, Kal Stiles. Project Advisors: Marion Slack, Ph.D, Kris R. Stiles R.Ph.
- “A meta-analysis of statins in thoracic transplants”, Rebecca Moon. Project Advisors: Paul Nolan, Pharm.D., Marion Slack, Ph.D.
- “An assessment of neighborhoods’ walkability within the city of Nogales, Arizona”, Branislava Lazarevic, Nickalaus Bryce. Project Advisor: Marion Slack, Ph.D.
- “Development of a Spanish glossary for pharmacists”, Mimi McClellan. Project Advisor: Marion Slack, Ph.D.
- 2006-2007
- “Factors associated with regular physical activity in health sciences students”, Vicki Lo, Amanda Dykstra Roop. Project Advisor: Marion K. Slack, Ph.D.
- “Why students exercise regularly: A focus group on the characteristics shared by Arizona Health Sciences students at the University of Arizona”, Alejandra Van de Zande, Kyle Palmateer, Sam Wingersky. Project Advisor: Marion K. Slack, Ph.D.
- “A study of after-hours medication needs in a rural Arizona 60 bed hospital”, Randy R. Bryce, Kyle N. Clonts.
- “A 12-month comparison of medication adherence, combination therapies, psychiatric hospitalization rates, and cost of care in patients with schizophrenia on

clozapine versus quetiapine in an outpatient mental health treatment facility. Zhinus Bahraini, Aftehar Baqseh, Bee-Chin Quah. Project Advisors: Martha Fankhauser, MS, Marion Slack, PhD.

“Comparison of prescribing patterns for typical and atypical antipsychotics in patients with schizophrenia before and after the publication of the Phase I ‘CATIE’ trial”, Ross Varga. Project Advisors: Martha Fankhauser, MS, Marion Slack, PhD.

2007-2008

A description of a pharmacist-based treatment adherence program at special immunology associates, an HIV ambulatory care clinic”, Rebecca Bolhuis. Project Advisors: Natalie Perkins, PharmD, Marion Slack, PhD.

“Meta-analysis of weight change in the placebo arm of RCT’s for weight loss: methods and pilot study”, Jennie L. McNellis. Project Advisor: Marion Slack, PhD.

“The effect of placebo on weight loss in obese patients: a meta-analysis”, Eric Burke, Matthew Garvin. Project Advisor: Marion Slack, PhD.

An assessment of the prevalence and awareness of gluten inprescription medications by patients and pharmacists”, Melina Quiroz, Georgina Rubal-Peace, Monica Sykes. Project Advisor: Marion Slack, PhD.

2008-2009

“A descriptive study of the impact of a pharmacist run diabetes management clinic”, Kelly Royek-Purtee. Project Advisor: Marion Slack, PhD.

“Pharmacy interns’ attitude3s and beliefs regarding counseling in community pharmacies for over-the-road truck drivers”, David Tholen, Aaron Dix. Project Advisor: Marion K. Slack, Ph.D.

“Effects of prickly pear on blood glucose and thrombosis in type 2 diabetic rats”, Danielle Russell, Patricia Ritz. Advisors: Parul E. Nolan, Jr. PharmD, Marion Slack, PhD.

“Evaluation of a lifestyle booklet for female Chinese-Americans with type 2 diabetes mellitus”, Theodore Chan, Winni Wang. Advisor: Marion Slack, PhD.

2009-2010

“Comparison of findings from published weight loss trials for orlistat to the findings used by the Food and Drug Administration (FDA)”. Zaira Balmaceda, Kathy Lin. Project Advisor: Marion Slack, PhD.

“Perceived Stress and Coping Methods in Pharmacy Students”. Stefanie Acosta, Valerie Barnes. Project Advisor: Marion Slack, PhD.

“Students’ Perceptions of Learning from Work and Extracurricular Activities While Attending Pharmacy School”. Danielle DeBake, Sheena Jolson, Christina Klemm. Project Advisor: Marion Slack, PhD.

“A Comparison of Drug Disposal Programs and Recommendations for Arizona”. Amelia Barragan, Ilan Chao, Vi Vuong. Project Advisor: Marion Slack, PhD. .

“A Comparison of Pharmacist Managed Anticoagulation Therapy to Non-Pharmacist Managed Therapy: A Meta-Analysis”. Benjamin Bishop. Project Advisor: Marion Slack, PhD.

Project SHAPE (Students Helping Advocate for Patient Education) Whitney Shields, Kristin Calabro. Project Advisor: Marion Slack, PhD.

2010-2011

“Survey of Chronic Pain Specialists and Their Experiences with Pharmacies in Managing Chronic Pain”. Bryce Bricker, Lisa Munson. Project Advisers: Marion Slack, Ph.D., Eric Sredzinski, Pharm.D.

“Student Perceptions of the Role of Portfolios in Evaluating the Outcomes of Pharmacy Education”. Tatum Airey, Andrea Bisso. Project Advisers: John Murphy, Pharm.D., Marion Slack, Ph.D.

“Evaluating Research Designs of Clinical Pharmacy Services”. Monica Clark, Ryan Burgess. Project Advisers: Marion Slack, Ph.D., Jeannie Lee, Pharm.D.

“Pharmacists’ Effects on Direct Patient Care of Different Socioeconomic Populations: A Meta-Analysis”. Brooke Brelsford, Angie Arvallo. Project Advisers: Marion Slack, Ph.D., Jeannie Lee, Pharm.D.

“Assessment of a Pharmacist–run Anticoagulation Clinic in Rural Arizona”. Barbara Colondres, Christina DiGiacomo. Project Adviser: Marion Slack, Ph.D.

“Factors Influencing Students’ Decisions to Choose the University of Arizona College of Pharmacy”. Kristen Chen, Mimi Tat, Jodi Watanabe. Project Advisers: Marion Slack, Ph.D., John Regan, Ph.D.

2011-2012

“Comparison of poractant versus beractant in the treatment of respiratory distress syndrome in premature neonates in a tertiary academic medical center. Ashley Jorgensen, Kimia Nasrollah. Adviser: Hanna Phan, PharmD; Co-adviser: Marion Slack, PhD.

“Use of the CONSORT Criteria for Reporting Randomized Controlled Trials in Pharmacy Journals”. Emalee Craft, Rachel Ogumbo. Adviser: Marion Slack, PhD.

2012-2013

“Meta-analysis of modafinil as an adjunct agent in the treatment of depression.” Amber Gustin, Heather Magsarili. Adviser: Marion Slack, PhD.

“Exercise and Type 2 diabetes mellitus: Meta-analysis of exercise duration and intensity and their effects on HbA1c and use of hypoglycemic agents.” C. Garrett Hoelzer, Evelyn Phillips, Marna Rautenbach. Adviser: Marion Slack, Ph.D.

“Meta-analysis and systematic review of insomnia and alternative and complementary medicine.” Hyon Song. Adviser: Jeannie Lee, Pharm. D.; Co-adviser: Marion Slack, Ph.D.

“Fracture risk with bisphosphonate use versus concurrent proton pump inhibitor and bisphosphonate use: A meta-analysis.” Jeff Pasteur, Erin Phoebe. Adviser: Jeannie Lee, Pharm.D.; Co-adviser: Marion Slack, Ph.D.

“Efficacy of alendronate and risedronate on bone mineral density in men with osteoporosis: A meta-analysis.” Olivia Brown, Karen Jehle. Adviser: Jeannie Lee, Pharm.D.; Co-adviser: Marion Slack, Ph.D.

“Effects of exenatide twice daily and once weekly on weight loss.” Rajal Patel, Katrina Skuba, Michelle Wild. Adviser: Marion Slack, Ph.D.

Meta-analysis of molecular association studies: CYP2R1 gene polymorphisms and vitamin D plasma level in Type 1 diabetes patients. Newsha Sarmadnia. Adviser: Rick Herrier, Pharm.D.; Co-adviser: Marion Slack, Ph.D.

2013-2014 "Using meta-analysis to explore the factors affecting the potency of pharmacist patient interventions." Bach-Truc Chau, Yeh Ling Yuan Lee, Trang Vo . Adviser: Jeannie Lee, Pharm.D. and Marion Slack, PhD.

Graduate Student Committees

1993	MS	Jean Carter	Member of committee
1996	PhD	Donald Harrison	Member of committee
1997	PhD	Jean Carter	Member of committee
1997	MS	Rebecca Coyle	Member of committee
1998	MS	Terrence Jackson	Member of committee
1998	PhD	Matthew Borrego	Member of committee
1999	PhD	Kem Kreuger	Member of committee
2000	MS	Cecilia Plaza	Member of committee
2002	PhD	David Bennett	Member of committee
2005	MS	Lisa Hess	Member of committee
2006	PhD	Cecilia Plaza	Member of committee
2006	MS	Frances Brazzell	Member of committee
2006	MS	Kirsten Yaffe	Member of committee
2008	PhD	Kathy Zwald	Member of committee
2008	PhD	Jason Lundy	Member of committee
2008	PhD	Yuda Chongpison	Member of committee
2008	PhD	Maysaa Mahmood	Member of committee
2008	MPH	Aimee Diehl	Member of committee
2009	PhD	Yuda Chongpison	Member of committee
2009	MS	Ana Hincapie	Member of committee
2010	MS	Ana Hincapie	Member of committee
2013	PhD	Alex Mutebi	Co-Chair with Dr. Stephen Coons
2013	PhD	Bismark Baidoo	Committee Chair
2013	MS	Derek Tang	Member of committee
2011	PhD	Kim Severno	Member of Committee
2012	MS	David Brown	Co-Chair with Dr. Stephen Coons

Other University Activities

1987-1988	Research and Graduate Studies Committee The purpose of this committee is to improve recruitment efforts of graduate students, identify sources of support for research and develop contacts with industry. I was the graduate student representative.
1988-1989	College of Pharmacy Self-Study Subcommittee The purpose of this committee was to conduct a self-study of the professional degree program in preparation for accreditation. I served as the graduate student representative.
1990	Interviewed prospective pharmacy students for admission into the College of Pharmacy.
1990-1991	Evaluation and Special Study Committee The purpose of this committee is to establish mechanisms for teacher and course evaluations and to evaluate the competency of students graduating from

- the program.
- 1991-1992 Patient simulator for APhA patient counseling competition at the University of Arizona College of Pharmacy.
- 1993 Admissions committee for the MPH program.
- 1994 Interviewed prospective pharmacy students for admission into the College of Pharmacy.
- 1994-1995 Computer and Information Services Committee
The purpose of this committee is to implement computer information technology into the instructional, research, service, and administrative activities of the College.
- Task Force on Pharmaceutical Care Certificate
The purpose of this committee is to develop a certificate program in pharmaceutical care to address the increased involvement of community pharmacists in managed care. Marion Slack, Chair.
- Southwestern Pharmacy Seminar
The purpose of this committee is to develop the program for the annual Seminar. The 1995 seminar was to serve to launch the certificate program in pharmaceutical care. Marion Slack, Chair.
- Task Force on Ambulatory Care
The purpose of this committee is to explore opportunities to develop community sites as experiential training sites for ambulatory pharmaceutical care.
- 1995 Professional Advisory Group for Senior Health Peers for Rural Health Promotion
This committee serves as an advisory panel to a grant funded through the Agency for Health Care Policy and Research and the National Institute of Nursing. The Committee assists in developing, refining, and monitoring teaching materials for the Project.
- 1995-1996 College of Pharmacy Computer and Information Services Committee
The purpose of this committee is to implement computer information technology into the instructional, research, service, and administrative activities of the College.
- Graduate Studies-Pharmaceutical Economics and Administrative Sciences
The goal of this committee is to plan, monitor, evaluate, and recommend changes in the division graduate programs to further stimulate outstanding graduate research and teaching activities.
- 1996-1997 College of Pharmacy Computer and Information Services Committee
The purpose of this committee is to implement computer information technology into the instructional, research, service, and administrative activities of the College.
- 1997-1998 Evaluation and Special Study Committee
This committee is responsible for advising the dean and college on steps to be taken to evaluate the educational and instructional effectiveness of its programs. This committee also was responsible for writing the evaluation section for the American Council of Pharmaceutical Education accreditation visit in 1998. (Chair)

- 1998 Round Table on Community Based Nursing Interventions
Advisory group to an NIH grant that provides research training for predoctoral and postdoctoral fellows focusing on the design and implementation of community-based interventions.
- 1998-1999 Evaluation and Special Study Committee
This committee is responsible for advising the dean and college on steps to be taken to evaluate the educational and instructional effectiveness of its programs. This committee also is responsible for addressing the items identified by the ACPE accreditation review and the Academic Program Review. (Chair)
- 1999-2000 Department Planning Committee
The goal of this committee is to develop annual retreats for the Department. Charges include: 1) Plan and organize the 2000 Department strategic retreat initiatives; and, 2) Write-up results of 2000 meeting/ initiatives including objectives and assignments.
Evaluation and Special Study Committee
This committee is responsible for advising the dean and college on steps to be taken to evaluate the educational and instructional effectiveness of its programs. This committee also is responsible for addressing the items identified by the ACPE accreditation review and the Academic Program Review. (Chair)
- 2000-2001 Evaluation and Special Study Committee
This committee is responsible for advising the dean and college on steps to be taken to evaluate the educational and instructional effectiveness of its programs. This committee also is responsible for addressing the items identified by the ACPE accreditation review and the Academic Program Review. (Chair)
Task Force on Senior Project Refinement
Suggest revisions to the senior project process.
- 2001-2002 Evaluation and Special Study Committee
This committee is responsible for advising the dean and college on steps to be taken to evaluate the educational and instructional effectiveness of its programs. This committee also is responsible for addressing the items identified by the ACPE accreditation review and the Academic Program Review. (Chair)

Member of The Campus Conversation on the Scholarship of Teaching and Learning (SOTL) Committee. Chris Johnson, Chair. University Committee.
- 2002-2003 Evaluation and Special Study Committee
This committee is responsible for advising the dean and college on steps to be taken to evaluate educational and instructional effectiveness. This committee also is responsible for addressing the items identified by the ACPE accreditation review and the Academic Program Review. (Chair)

Committee for Guidelines for Promotion of Research Track Faculty
This is a department committee for developing guidelines for the promotion of non-tenure track faculty in research. Current guidelines are a modification of those used for tenure-track faculty and need to be reviewed and adapted for use with research track faculty.

Senior Projects Advisory Committee (Chair)

Interviewed applicants to the Pharm.D. program; patient simulator in PhPr 475c.

Search Committee for Pharmacoeconomics position

Patient Simulator for PhPr 475c

2003-2004

Evaluation and Special Study Committee

This committee is responsible for advising the dean and college on steps to be taken to evaluate educational and instructional effectiveness. This committee also is responsible for addressing the items identified by the ACPE accreditation review and the Academic Program Review. (Chair)

Senior Projects Issues Working Group (Chair)
Ad hoc committee on the Ashville Project

Reviewer for Project Reports: 7

Patient Simulator for PhPr 475c

2004-2005

Evaluation and Special Study Committee

This committee is responsible for advising the dean and college on evaluating the effectiveness of its programs. It also is responsible for assuring that ACPE accreditation requirements are met. (Chair)

Member of the AHEC (Arizona Health Education Center) Advisory Committee
This committee is the executive committee of the AHEC system in Arizona and consists of members from each health sciences college, medicine, pharmacy, nursing, and public health. It works with the regional AHECs to define strategy, identify funding opportunities, and coordinate student activities from each college.

Search Committee for Experiential Coordinator
Search Committee for Coordinator, Information Technology
Search Committee for Department Head

Reviewer for Project Proposals: 7

Patient Simulator for PhPr 475c

Portfolio grading for the class of 2004, 2005, 2006, and 2007

Facilitator for Cultural Competency and Cross-Cultural Interview for medical students. 24 August 2004

Interviewer for Mock Interviews Workshop, College of Medicine, 18 September 2004.

Presenter and Facilitator at the Health Care Disparities Interdisciplinary Seminar, College of Pharmacy and College of Medicine, 5 March 2004.

2005-2006

Evaluation and Special Study Committee

This committee is responsible for advising the dean and college on evaluating the effectiveness of its programs. It also is responsible for assuring that ACPE accreditation requirements are met. (Chair)

Member of the AHEC (Arizona Health Education Center) Advisory Committee

This committee is the executive committee of the AHEC system in Arizona and consists of members from each health sciences college, medicine, pharmacy, nursing, and public health. It works with the regional AHECs to define strategy, identify funding opportunities, and coordinate student activities from each college.

2006-2007

Evaluation and Special Study Committee

This committee is responsible for advising the dean and college on evaluating the effectiveness of its programs. It also is responsible for assuring that ACPE accreditation requirements are met. (Chair)

Member of the AHEC (Arizona Health Education Center) Advisory Committee
This committee is the executive committee of the AHEC system in Arizona and consists of members from each health sciences college, medicine, pharmacy, nursing, and public health. It works with the regional AHECs to define strategy, identify funding opportunities, and coordinate student activities from each college.

AHEC Subcommittee for Interprofessional Training

This committee was formed to facilitate the development of an interprofessional training program involving the collaboration of faculty from state universities and the AHEC regional centers.

2007-2008

Evaluation and Special Study Committee

This committee is responsible for advising the dean and college on evaluating the effectiveness of its programs. It also is responsible for assuring that ACPE accreditation requirements are met. (Chair)

Member of the AHEC (Arizona Health Education Center) Advisory Committee
This committee is the executive committee of the AHEC system in Arizona and consists of members from each health sciences college, medicine, pharmacy, nursing, and public health. It works with the regional AHECs to define strategy, identify funding opportunities, and coordinate student activities from each college.

Member, Pharmacy Practice Peer Review Committee

The purpose of this committee was to review faculty for promotion and tenure.

Member, Search Committee for Translational Science Position

This committee met two or three times and then interviewed candidates for the position. At least 3 candidates were interviewed.

Member, Committee for writing a section of the CTSA proposal

Needed to review materials and participate in meetings; I participated in meetings to draft the original concept.

2008-2009

Evaluation and Special Study Committee

This committee is responsible for advising the dean and college on evaluating the effectiveness of its programs. It also is responsible for assuring that ACPE accreditation requirements are met. (Chair)

Member of the AHEC (Arizona Health Education Center) Advisory Committee
This committee is the executive committee of the AHEC system in Arizona and consists of members from each health sciences college, medicine, pharmacy, nursing, and public health. It works with the regional AHECs to define strategy, identify funding opportunities, and coordinate student activities from each college.

Member, Pharmacy Practice Peer Review Committee

The purpose of this committee was to review faculty for promotion and tenure.

2009-2010

Evaluation and Special Study Committee

This committee is responsible for advising the dean and college on evaluating the effectiveness of its programs. It also is responsible for assuring that ACPE accreditation requirements are met. (Chair)

Member of the AHEC (Arizona Health Education Center) Advisory Committee

This committee is the executive committee of the AHEC system in Arizona and consists of members from each health sciences college, medicine, pharmacy, nursing, and public health. It works with the regional AHECs to define strategy, identify funding opportunities, and coordinate student activities from each college.

Member, Pharmacy Practice Peer Review Committee

The purpose of this committee was to review faculty for promotion and tenure.

2010-2011

Evaluation and Special Study Committee

This committee is responsible for advising the dean and college on evaluating the effectiveness of its programs. It also is responsible for assuring that ACPE accreditation requirements are met. (Chair)

Member of the AHEC (Arizona Health Education Center) Advisory Committee

This committee is the executive committee of the AHEC system in Arizona and consists of members from each health sciences college, medicine, pharmacy, nursing, and public health. It works with the regional AHECs to define strategy, identify funding opportunities, and coordinate student activities from each college.

Member, Pharmacy Practice Peer Review Committee

The purpose of this committee was to review faculty for promotion and tenure.

Member, Health Disparities Committee

The purpose of this committee is to bring together faculty within the Department of Pharmacy who are working in the area of health disparities to develop collaborative research and training opportunities.

2011--2012

Evaluation and Special Study Committee

This committee is responsible for advising the dean and college on evaluating the effectiveness of its programs. It also is responsible for assuring that ACPE accreditation requirements are met. (Chair)

Member of the AHEC (Arizona Health Education Center) Advisory Committee

This committee is the executive committee of the AHEC system in Arizona and consists of members from each health sciences college, medicine, pharmacy, nursing, and public health. It works with the regional AHECs to define strategy, identify funding opportunities, and coordinate student activities from each college.

Member, Pharmacy Practice Peer Review Committee

The purpose of this committee was to review faculty for promotion and tenure.

Member, Health Disparities Committee

The purpose of this committee is to bring together faculty within the Department of Pharmacy who are working in the area of health disparities to develop collaborative research and training opportunities.

Member, Preparation for Residency Committee

The purpose of this committee is to enhance the ability of College graduates to obtain residencies. I am a member of this committee because I coordinate the student research projects which are an important component of the residency application.

Member, Interprofessional Education Committee

The purpose of this committee is to develop interprofessional education opportunities at Health Sciences. I am also a member of the sub-committee on community-based experiences.

2013--2014

Assessment Committee

This committee is responsible for advising the dean and college on evaluating the effectiveness of its programs. It also is responsible for assuring that ACPE accreditation requirements are met.

Faculty Status Committee (Department)

This committee is responsible for evaluating faculty for promotion and/or tenure.

Member, Health Disparities Committee

The purpose of this committee is to bring together faculty within the Department of Pharmacy who are working in the area of health disparities to develop collaborative research and training opportunities.

Faculty Status Committee (College)

This committee is responsible for evaluating faculty for promotion and/or tenure.

Community Service Activities

1995

Center for Minority Health of the Arizona Department of Health Services

Served as a member of a discussion group focusing on local and minority health services in Southern Arizona. The purpose of the discussion was to identify strategies for implementing Arizona 2000 (Plan for a Healthy Tomorrow) in rural communities.

1996/1997

Tackling Asthma in Arizona: A Prevention Partnership

Member of a taskforce formed to improve the coordination of the activities of managed care organizations and the public health activities related to the management of asthma in children.

1997

Rock the Block: A Teen Health Fair

Participated in a teen health fair in Nogales, Arizona, that provided information to teens and their families on teen health and career options.

2002

Editorial board for the Arizona Pharmacy Association

2003

Member research advisory board of the Arizona Coalition on Adolescent Pregnancy and Parenting
Editorial board for the Arizona Pharmacy Association

2004

Editorial board for the Arizona Pharmacy Association

2005

Editorial board for the Arizona Pharmacy Association

2006

Editorial board for the Arizona Pharmacy Alliance

2007 Editorial board for the Arizona Pharmacy Alliance

2008 Editorial board for the Arizona Pharmacy Alliance

2009 Editorial board for the Arizona Pharmacy Alliance

Professional Development

Technical Assistance Workshop in Grant Writing, Division of Associated, Dental, and Public Health Professions, U.S. Department of Health and Human Services. Rockville, MD. September 14-15, 1992.

1999 AACP Institute on Pedagogical and Curricular Change. American Association of Colleges of Pharmacy. Xerox Document University and Training Center, Leesburg, VA. May 21-25, 1999.

Strategies for Success: Assessing Learning and Teaching at the University of Arizona. The University of Arizona Teaching Center. University Park Marriott, Tucson, AZ. January 19-20, 2000.

Microsoft Excel I and Microsoft Excel II. Division of Academic Resources, Arizona Health Sciences Library & Biomedical Communications. Arizona Health Sciences Center, Tucson, AZ. October 10 & 17, 2000.

2001 AACP Institute. A Guide to Program Assessment: Developing a Plan. American Association of Colleges of Pharmacy. Xerox Document University, Leesburg, VA. June 1-5, 2001.

Measuring Success: Taking Responsibility for Learning at the University of Arizona. The University of Arizona Teaching Center. University Park Marriott, Tucson, AZ. March 27-28, 2002.

Workshop on using EndNote presented by Mari Stoddard, Health Sciences Library, The University of Arizona, Tucson, AZ. February 6, 2003.

Spanish Language. Susan Divine, tutor. The University of Arizona. Spring Semester, 2003.

D2L training. College of Pharmacy and Computing Center, May 2007.

D2L training and RefWorks training. College of Pharmacy. Summer 2008

Sexual Harassment Training (completed on-line course) and Problem Based Learning Seminar 2009

Computer Security Awareness—27 Jan 2011.

Intensive workshop on meta-analysis and meta-regression in the health sciences. Christopher S. Lee, PhD, RN. March 2012.

UA Assessment Showcase. 2013. 10 April 2013.

Publications (Peer Reviewed)

Slack MK, McGhan WF. Inadvertent dispensing of hypoglycemic drugs: a review of sixteen case studies and recommendations for prevention. *J Phar Tech*. 1988; March-April.

Slack MK, McGhan WF, Tong, TG, Gardner ME. Application of a micro-computer data base system to competency-based curriculum analysis. *Am J Pharm Educ*. 1989; Spring.

Gardner M, Hurd PD, **Slack MK**. Effect of information organization on recall of medication instructions. *J*

Clin Pharm Ther 1990; 15: 13-19.

Cody B, **Slack MK**. Crossover designs in pharmacy research. *Annals of Pharmacotherapy* 1992; 26: 327-333.

Draugalis JR, **Slack MK**. A course model for teaching research methods in colleges of pharmacy. *Am J Pharm Educ* 1992; 56: 48-52.

Slack MK, Sabers D, McGhan WF, Larson LN, Bootman JL. Reliability indices for use in educational experiments: Cronbach's alpha and a G-study. *J Pharm Teach* 1992; 3: 33-48.

Slack MK, Draugalis JR. Strategic planning by colleges of pharmacy: linear, adaptive, or interpretive strategies. *Am J Pharm Educ.*1992; 56: 263-267.

Draugalis JR, **Slack MK**. Financial implications of Pharm.D. clerkship placements: results of a national survey. *Am J Pharm Educ.* 1993;57:18-24.

Slack MK, Draugalis JR. A production model as a framework for the interpretation of economic evaluations in pharmacy education. *Am J Pharm Educ.* 1993;57:242-247.

Slack MK, McEwen MM. Pharmacy student participation in interdisciplinary community-based training. *Am J Pharm Educ.* 1993;57:251-257

Zaremski DG, Nolan PE Jr, **Slack MK**, Caruso AC. Empiric long-term amiodarone prophylaxis following myocardial infarction: a meta-analysis. *Arch Intern Med.* 1993;153:2661-2667.

Slack MK, Babcock J, McEwen MM. An exploratory input-output model of teamwork. In: *Interdisciplinary Health Care Teams: Proceedings of the Fifteenth Annual Conference*, Snyder JR, Ed. Las Vegas, Nevada, September 1993:193-212.

McEwen MM, **Slack MK**, Gordon I, Hughes A. A systems model as a unifying paradigm for community-based interdisciplinary teams. In: *Interdisciplinary Health Care Teams: Proceedings of the Fifteenth Annual Conference*, Snyder JR, Ed. Las Vegas, Nevada, September 1993:110-119.

Slack MK, Draugalis JR. Models for estimating the impact of clerkship students on practice sites. *Am J Hosp Pharm.* 1994;51:525-530.

Slack MK, Brookes AJ. Medication management issues important to adolescents with asthma. *Am J Hosp Pharm.* 1995;52:1417-1421.

Slack MK, Murphy JE. The factors associated with student membership in professional organizations. *Am J Pharm Educ.* 1995;59(2):125-130.

Carl JL, Erstad BL, Murphy JE, **Slack MK**. Comparison of infusion syringe devices for medication delivery. *Am J Hosp Pharm.* 1995;52:1428-1432.

Harrison DL, Draugalis JR, **Slack MK**. The production model as a basis for conducting economic evaluations of regional poison control centers. *J Toxicology-Clinical Toxicology.* 1995; 33(3):233-237.

Zaremski DG, Nolan PE, **Slack MK**, Caruso AC. Treatment of resistant atrial fibrillation: A meta-analysis comparing amiodarone and flecainide. *Arch Internal Med.* 1995;155:1885-1891.

Harrison DL, **Slack MK**. Meta-analytic review of the effect of subcutaneous sumatriptin in migraine headaches. *J Pharm Tech.* 1996;12:109-114.

Zaremski DG, Nolan PE, **Slack MK**, Lui CY. Meta-Analysis of the Use of Low-Dose Beta-Adrenergic

Blocking Therapy in Idiopathic or Ischemic Dilated Cardiomyopathy. *Am J Cardio*. 1996;77:1247-50.

Carter JT, Draugalis JR, **Slack MK**. Estimating the impact of pharmacy students on clerkship sites: The site perspective. *Am J Health-Syst Pharm*. 1996;53:1694-1700.

Draugalis JR, Carter JT, **Slack MK**. Curricular and financial implications of PharmD clerkship placements. *Am J Pharm Educ* 1996;60(2):146-151.

Slack MK, McEwen MM, Carter JT, Brueckner R. Implications of Case Management Delivery Models for Pharmacy. *Am J Health-Syst Pharm*. 1996;53:2860-7.

Murphy JE, **Slack MK**, Campbell S. National Survey of Hospital-Based Pharmacokinetic Services. *Am J Health-Syst Pharm*. 1996;53:2840-7.

Harrison DL, Draugalis JR, **Slack MK**, Langley PC. Cost-effectiveness of regional poison control centers. *Arch Intern Med*. 1996;156:2601-8.

Slack MK. Interpreting and using information from studies without statistical significance. *Annals Pharmaco*. 1997;31:116-117.

Slack MK, McEwen MM. An Interdisciplinary problem based practicum in case management and rural border health. *Family and Community Health*. 1997;20:40-53.

Draugalis JR, Carter JT, **Slack MK**. A survey course on research methods: Integrating statistical analysis and study design. *Am J Pharm Educ*. 1998;62:17-24.

Carter JT, Draugalis JR, **Slack MK**, Cox ER. Algorithms for estimating learning opportunity and productivity impact at clerkship sites. *Am J Pharm Educ*. 1998;62:258-265.

Slack MK, McEwen MM. The Impact of interdisciplinary case management on client outcomes. *Family and Community Health*. 1999; 22(3): 30-48.

Draugalis JR, **Slack MK**. A continuous quality improvement model for developing innovative instructional strategies. *Am J Pharm Educ*. 1999;63:354-358.

Slack MK, Coyle RA, Draugalis JR. An evaluation of instruments used to assess the impact of interdisciplinary training. *Issues in Interdisciplinary Care*. 2001;3(1):59-67.

Younis WS, Campbell S, **Slack MK**. The relationship between pharmacists' attitudes toward diabetes and their involvement in diabetes education. *Annals Pharmaco*. 2001;35: 841-5.

Gardner ME, Ditmanson LF, Garrett RW, **Slack MK**. Effectiveness of divalproex sodium in severe dementia-related aggression. *Consultant Pharmacist*. 2001; 16: 839-43.

Slack MK, Draugalis JR. Establishing the internal and external validity of experimental studies. *Am J Health-Syst Pharm*. 2001; 58: 2173-2181.

Slack MK, Cummings DM, Borrego ME, Fuller K, Cook S. Strategies used by interdisciplinary rural health training programs to assure community responsiveness and recruit practitioners. *J Interprofessional Care*. 2002; 16: 129-138.

Jackson TR, Draugalis JR, **Slack MK**, Zachry WM, D'Agostino J. Validation of authentic performance assessment: a process suited for Rasch modeling. *Am J Pharm Educ* 2002; 66: 233-242.

Draugalis JR, **Slack MK**, Sauer KA, Haber SL, Vaillancourt RR. Creation and implementation of a

learning outcomes document for a doctor of pharmacy curriculum. *Am J Pharm Educ* 2002; 66: 253-260.

Plaza CM, Draugalis JR, **Slack MK**, Skrepnik G. Administrative career planning: A ten-year update of the pharmacy deanship. *AJPE*. 2004; 68(1) Article 8.

Plaza CM, Draugalis JR, Skrepnek GH, **Slack MK**. The role of administrative mentoring in the pharmacy deanship. *AJPE* 2004; 68(4) Article 86.

McEwen MM, **Slack MK**. Factors associated with health related behaviors in Latinos with or at risk of developing diabetes. *Hispanic Health Care International*. 2005;3 (3): 143-152.

Hogan EG, Leal S, **Slack M**, Apgar D. Pharmacist-let vs physician diabetes drug management. *Hospital Pharmacy Europe*. 2006; May/June; 1-2.

Slack MK, Interpreting Current Guidelines for Physical Activity and Incorporating Them into Practice for Health Promotion and Disease Prevention. *AJHP* 2006; 63:1647-53.

Plaza CM, Draugalis JR, **Slack MK**, Skrepnek GH, Sauer KA. Curriculum mapping in program assessment and evaluation. *American Journal of Pharmaceutical Education*. 2007; 71(2): article 20.

Plaza CM, Draugalis JR, **Slack MK**, Skrepnek GH, Sauer KA. Use of reflective portfolios in health sciences education. *American Journal of Pharmaceutical Education*. 2007; 71(2): article 34.

Buckley MS, Nolan PE, **Slack MK**, Tisdale JE, Hilleman DE, Copeland JG. Amiodarone Prophylaxis for Atrial Fibrillation after Cardiac Surgery: A Meta-Analysis. *Pharmacotherapy*. 2007; 27(3):360-368.

Hess L, Benham-Hutchings M, Herzog TJ, Hsu CH, Malone DC, Skrepnek GH, **Slack MK**, Alberts DS. A Meta-Analysis of the Efficacy of Intraperitoneal Cisplatin for the Front-Line Treatment of Ovarian Cancer. *International Journal of Gynecological Cancer*. 2007;17:561-570.

Slack MK. Using Standard Studies to Interpret the Scores from Scales for Assessing the Internal Validity of Randomized Controlled Trials. *Hosp Pharm*. 2007; 42.

Murphy JE, **Slack MK**, Boesen KP, Kirking DM. Research experiences and research-related coursework in the education of entry-level doctors of pharmacy. *American Journal of Pharmaceutical Education*. 2007; 71 (6) Article 113.

Warholak TL, Gilligan AM, Hurwitz JT, **Slack M**, Spivey CA, Chisholm-Burns M. Assessing student perceived outcomes for a methods television (MTV) video project in a research methodology class. *Currents in Pharmacy Teaching and Learning* 2010; 2:211-217.

Hincapie AL, Warholak T, Murcko AC, **Slack MK**. Physicians' opinions of a health information exchange. Doi: 10.1136/jamia.2010.006502. November 24, 2010.

Chisholm-Burns, Zivin JSG, Lee JK, Spivey CA, **Slack M**, Herrier RN, Hall-Lipsey E, Abraham I, Palmer J. Economic effects of pharmacists on health outcomes in the United States: A systematic review. *Am J Health-Syst Pharm*. 2010;67:1624-9.

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Martin JR, Kramer SS, **Slack M**. Demonstrating the literature search process through innovative role play instruction for pharmacy students. American Association of Colleges of Pharmacy Annual Meeting, Seattle, WA, July 10-14, 2010.

Boesen KP, Hall-Lipsey EA, **Slack MK**, Murphy JE, Chisholm-Burns MA. "Evaluating the impact of rural rotations on perceptions of rural pharmacy practice. 111th Annual Meeting of the American Association of Colleges of Pharmacy, Seattle, Washington, July 12, 2010.

Slack MK, McEwen MM, Arana A. Web-based modules for orienting health sciences students to a field experience in community health. 111th Annual Meeting of the American Association of Colleges of Pharmacy, Seattle, Washington, July 12, 2010.

McEwen MM, **Slack MK**. Omaha system innovations: Facilitating cultural immersion for health professions students on the U.S.-Mexico border. Annual Meeting of the American Public Health Association, Denver, CO. November 6-10, 2010.

Martin JR, Kramer SS, **Slack MK**. Information Literacy Skills of First Year Pharmacy Students: Focus Group Results. American Association of Colleges of Pharmacy, San Antonio, Texas, July 11, 2011.

Murphy J, Airey T, Bisso A, **Slack MK**. Student Perceptions of the Role of Portfolios in Evaluating Expected Outcomes of their Education. American Association of Colleges of Pharmacy, San Antonio, Texas, July 11, 2011.

Martin JR, Kramer SS, Chisholm-Burns M, Lee J, Spivey C, **Slack M**, Herrier R. Librarians as Members of an Interdisciplinary Team Conducting a Systematic Review of Pharmacists' Impact on Direct Patient Care. Medical Library Association Annual Meeting. Minneapolis, Minnesota. May 17, 2011.

Martin JR, Kramer SS, **Slack MK**. Using Role Play to Teach Literature Search Skills to Pharmacy Students. Medical Library Association Annual Meeting. Minneapolis, Minnesota. May 17, 2011.

McEwen MM, **Slack MK**. Rural and Underserved Communities' Examination of Community Capacity. American Public Health Association Meeting. Washington, D.C. November 1, 2011.

Slack MK, McEwen MM. VIHSTA: An Academic –Community Collaborative Program in Interprofessional Community Healthy. Collaborating Across Borders III. Tucson, Arizona. November 20, 2011.

Saverno KS, Malone DC, Warholak TL, Armstrong E, **Slack MK**. Impact of Medicare Part D on pharmaceutical and medical utilization in Arizona's dual eligible population. [Poster] ISPOR. Washington, D.C. 4 June 2012.

Martin JR, **Slack MK**, Kramer SS. Information literacy skills of incoming first-year pharmacy students: Survey results. AACP Annual Meeting. Kissimmee, FL. July 2012.

Martin JR, **Slack MK**. "Using focus groups to assess information literacy skills of first year pharmacy students". Special Libraries Association Annual Conference and INFO-EXPO. San Diego, CA. 11 June 2013.

Martin J, **Slack MK**. "Evaluating library instruction: Examining the impact of role-play instruction". [Poster] American Association of Colleges of Pharmacy Annual Meeting. Chicago, IL. 14 July 2013.

Slack MK, Augustine JM, Warholak TL. "Writing multiple choice exam items for testing concept learning." [Poster] American Association of Colleges of Pharmacy Annual Meeting. Chicago, IL. 14 July 2013.

Presentations (Abstract not published):

McEwen MM, **Slack MK**. "Interdisciplinary education for a healthy Arizona," Arizona Rural Health Conference, Flagstaff, Arizona, July 1993.

Alvarez NA, **Slack MK**. "Community assessment in rural Arizona" [student poster], presented at the American Society of Hospital Pharmacists Meeting, New Orleans, Louisiana; December, 1991.

McEwen MM, **Slack MK**. "Interdisciplinary education opportunities" presented at the Arizona Rural Health Conference, Prescott, Arizona; August, 1992.

Buchholz J, **Slack MK**. "Interdisciplinary team approach to meeting community health needs" [student poster] presented at the American Society of Hospital Pharmacists Midyear Clinical Meeting, Student Section, Orlando, Florida; December, 1992.

Surratt LC, **Slack MK**. "Effect size in drug comparison studies," [student poster] American Society of Hospital Pharmacists Midyear Clinical Meeting, Student Section, Atlanta, Georgia; December, 1993.

Villarreal JD, **Slack MK**. "Pharmacy in migrant and seasonal farmworker health". [student poster] American Society of Hospital Pharmacists Midyear Clinical Meeting, Atlanta, Georgia; December, 1993.

Dunn E, Campos G, Kidd G, McEwen MM, **Slack MK**. "Nuestra Comunidad, Nuestra Salud: An Interdisciplinary Experience". Arizona Rural Health Conference. Sedona, Arizona, August 2-4, 1995.

Duong TM, Sun I, **Slack MK**. "Contraceptive use in a rural bicultural community". [student poster] American Society of Health-System Pharmacists, Las Vegas, Nevada; December 1995.

Dunn E, Campos G, Kidd G, **Slack MK**. "An interdisciplinary experience in a rural, bicultural community". [student poster] American Society of Health-System Pharmacists, Las Vegas, Nevada; December 1995.

Harrington SD, **Slack MK**. "Pharmacy students and faculty as part of an interdisciplinary rural health care team: Adventures along the U.S.-Mexico border". [student poster] American Society of Health-Systems Pharmacists, December 8-12, 1996. New Orleans, Louisiana.

Ruiter J, **Slack MK**. Participation in a rural health professions program for pharmacy practice. [student poster] American Society of Health-System Pharmacists, Las Vegas, Nevada. 7 December 1998.

Younis W, Campbell S, **Slack MK**. The relationship between pharmacists' attitudes toward diabetes and their involvement in diabetes education. [student poster] American Society of Health-System Pharmacists Midyear Clinical Meeting. Orlando, FL. December 1999.

Forrester J, Fankhauser MP, **Slack MK**. "A survey of the University of Arizona College of pharmacy students' attitudes and behaviors regarding substance abuse". American Society of Health-Systems Pharmacists, December 8-12, 2000.

Slack MK, Gutierrez IA. Association between sparse populations and health status: A path analysis. Arizona Health Sciences Center, University of Arizona, Tucson, AZ. October 2004.

Slack MK, Ahumada J, Brazzell F. Beyond borders—NCNS interdisciplinary rural health training grant. Arizona Rural Health Conference. Payson, AZ. 17 July 2005.

McEwen M, **Slack MK**. Interdisciplinary intervention for reducing diabetes health disparities in Hispanics. Information for Action Conference, Tucson, Arizona. October 28, 2005.

Brazzell F, **Slack MK**, Ahumada J, McEwen M. Beyond borders—NCNS interdisciplinary rural health training grant. Information for Action Conference, Tucson, Arizona. October 28, 2005.

Slack M. Use of a scoring tool for assessing the potential for methodological bias in meta-analysis: benefits and limitations. 2006 AHSC Frontiers in Biomedical Research Poster Forum, December 1, 2006, Tucson, Arizona.

Slack M, McNellis J. Meta-analysis of weight change in the placebo arm of RCT's for weight loss: methods and pilot study. 2007 AHSC Frontiers in Biomedical Research Poster Forum, October 17, 2007, Tucson, Arizona.

Murphy JE, **Slack MK**, Boesen KP, Kirking DM. National survey of research-related course and research experiences in the education of entry-level doctors of pharmacy. Arizona Pharmacy Alliance Meeting, July 26-28, 2007, Tucson, AZ.

Slack M, McNellis J. Meta-analysis of weight change in the placebo arm of RCT's for weight loss: methods and pilot study. American Pharmacists Association Meeting, March 2008, San Diego, CA.

Bolhuis R, Perkins N, **Slack M**. A description of a pharmacist-based treatment adherence program at an HIV ambulatory care clinic.

Boesen KP, Hall-Lipsey EA, **Slack MK**, Guy MC, Murphy JE, Chisholm-Burns MA. The University of Arizona Pharmacy Students Help Meet the Public Health Needs of Arizona's Rural Communities. American Association of Colleges of Pharmacy. July 22, 2008. Chicago IL.

Slack MK, Vande Zande A, Wingersky S., Palmeteer K. Health sciences students and regular exercise: focus group findings. American Association of Colleges of Pharmacy. July 22, 2008. Chicago IL.

McEwen MM, **Slack MK**. An interprofessional program to advance educational and research opportunities in the U.S.-Mexico border region. American Academy of Nursing. November 6, 2008. Phoenix, AZ.

McEwen MM, **Slack MK**. An interprofessional academic-community partnership model for building community capacity in the Arizona-Sonora, Mexico border region. United States-Mexico Border Health Association. El Paso, TX. Jun 3, 2009.

Warholak T, Gilligan A, **Slack MK**, Spivey C, Chisholm M, Hurwitz J. Assessing outcomes for a methods television (MTV) video project in a research methodology class. American Association of Colleges of Pharmacy, Boston, MA. July 20, 2009.

Balmaceda Z, Lin K, **Slack MK**. A comparison of findings from published weight loss trials for orlistat to the findings used by the Food and Drug Administration (FDA). Midyear Clinical Conference, American Society of Health-System Pharmacists. Dec 7, 2009. Las Vegas, NV.

Slack MK. Components of Community Resilience Affected by an Interprofessional Student Community Health Program and Implications for Experiential Education Programs. Frontiers in Biomedical Research. Tucson, AZ. 20 October 2010.

Villa L., **Slack MK**. Outcomes of a Pharmaceutical Care Program for Dyslipidemic Patients in Primary Health Care Setting. Frontiers in Biomedical Research. Tucson, AZ. 20 October 2010.

McEwen MM, Brown DY, **Slack MK**. Pilot Test of a Questionnaire to Assess Student-Community Connections Resulting from Experiential Education. Frontiers in Biomedical Research. Tucson, AZ. 20 October 2010.

Colondres B, DiGiacomo C, **Slack MK**. Assessment of Pharmacist-run Anticoagulation Clinic in Rural Arizona. 45th ASHP Midyear Clinical Meeting, Anaheim, CA. 6 December 2010.

Brelsford BJ, Arvallo AM, Lee JK, **Slack MK**. Effects of pharmacist-provided direct patient care on different populations as determined by their health insurance: A meta-analysis. 45th ASHP Midyear Clinical Meeting, Anaheim, CA. 6 December 2010.

Slack MK, McEwen MM. Impact of a Community-Based Interprofessional Experiential Education Program on Community Resilience. Frontiers in Biomedicine Posters. Health Sciences Center, The University of Arizona, Tucson, Arizona. October, 2010.

Slack MK, McEwen MM. Impact of a Community-Based Experiential Education Program on Community Resilience. Recruitment Poster Session. The University of Arizona, Bio5. February 16, 2011.

Jorgensen A, Thompson L, Camamo J, **Slack M**, Phan H. Comparison of proactant versus beractant in the treatment of respiratory distress syndrome in premature neonates in a tertiary academic medical center. [Poster] ASHP Midyear Clinical Meeting, Florida. December 2011.

Bishop B, Slack MK, Chisholm-Burns M. A comparison of pharmacist managed anticoagulation therapy to non-pharmacist managed therapy: a meta-analysis. Graduate Student Recruitment Poster Session, College of Pharmacy, University of Arizona, Tucson, AZ. February 2012.

Slack MK, Lee JK, Brelsford BJ, Arvallo AM, Chisholm-Burns M. Differences in the impact of pharmacist care by health insurance group: A meta-analysis." [Poster] Skaggs Symposium, Denver, CO; 28 September, 2012.

Brown O, Jehle K, Slack MK, Lee JK. Efficacy of alendronate and risedronate on bone mineral density in men with osteoporosis: A meta-analysis. ASHP Midyear Clinical Meeting. Las Vegas, NV. 5 December 2012.

Gustin A, Magsarili H, Slack MK. Meta-analysis of modafinil as an adjunct agent in the treatment of depression. ASHP Midyear Clinical Meeting. Las Vegas, NV. 5 December 2012.

Pasteur J, Phoebe E, Lee JK, **Slack MK**. Fracture risk with bisphosphonate use versus concurrent proton pump inhibitor and bisphosphonate use: A meta-analysis. ASHP Midyear Clinical Meeting. Las Vegas, NV. 5 December 2012.

Patel R, Skuba K, Wild MR, **Slack MK**. Effects of exenatide twice daily and once weekly on weight loss. ASHP Midyear Clinical Meeting. Las Vegas, NV. 5 December 2012.

Sarmadnia N, Herrier R, **Slack MK**. Meta-analysis of molecular association studies: CYP2R1 gene polymorphisms and vitamin D plasma level in Type 1 diabetes patients. ASHP Midyear Clinical Meeting. Las Vegas, NV. 5 December 2012.

Patel M, **Slack MK**, Lee JK, Martin J. Differences in the impact of pharmacist care by payer group: Background and methods for meta-analysis. Arizona Health Sciences Poster Session. Tucson, AZ. 30 October 2013.

Slack MK, Augustine JM, Warholak T. Writing multiple choice exam items for testing concept learning. Student Showcase at Homecoming. University of Arizona. Tucson, AZ. 08 November 2013.

Chau BT, Yuan L, Vo T, Lee JK, Slack MK, Martin J. Using meta-analysis to explore the factors affecting the potency of pharmacists' patient interventions. . ASHP Midyear Clinical Meeting. Orlando, FL. 8 December 2013.

Invited Presentations:

McEwen MM, **Slack MK**. "Interdisciplinary Training in a University Environment", Research Seminar, College of Nursing, The University of Arizona; 3 April 1995.

McEwen MM, **Slack MK**. "Interdisciplinary training in the classroom and in the community". Theta Tau Nursing Honor Society, College of Nursing, The University of Arizona, Tucson, Arizona, 25 October 1995.

Slack MK. "The Nuestra Comunidad, Nuestra Salud Interdisciplinary Training Project". Universidade Federal do Ceara-Fortaleza, Ceara-Brazil. 1 November 1995.

Slack MK. "The Apple Procedure for Writing a Research Report". Presented at the graduate seminar in the Department of Agricultural and Biosystems Engineering, College of Agriculture, The University of Arizona, 5 February 1996.

Slack MK. "Disease management and case management: An opportunity for pharmacists". Southwest Clinical Pharmacy Seminar. Tucson, Arizona. 24 February 1996

Slack MK. "Case management as a service model for pharmacy". American Society of Health-System Pharmacists, San Diego, California. 3 June 1996.

Slack MK. "Charting your future with case management". American Society of Health-System Pharmacists, San Diego, California. 3 June 1996.

Borrego ME, **Slack MK**. "Medication Taking Compliance in the Prophylactic Tuberculosis Program in Santa Cruz County". Santa Cruz County Supervisors' Meeting, Nogales, Arizona, 16 April 1997.

Slack MK, McEwen MM, Iglesias JG, Hughes A, Marshall S, Leybas V, Heiler-Stillman L, Brunke D, Borrego M, Bell N. "Student Perspectives on Interdisciplinary Training and Rural Community Health" [Panel Discussion]. Meeting with Dr. Earl Fox, III, Acting Director, Health Resources and Services Administration, and Dr. Dena Puskin, Acting Director, Office of Rural Health Policy, 6 August 1997, Rio Rico, Arizona.

Draugalis JR, **Slack MK**, Carter J. "Teaching Literature Evaluation: Integrating Research Design and

Statistical Analysis". The American Association of Colleges of Pharmacy Annual Meeting. July 13-15, 1997. Indianapolis, Indiana.

Slack MK. "The Apple Procedure for Writing a Research Report". Presented at the graduate seminar in the Department of Agricultural and Biosystems Engineering, College of Agriculture, The University of Arizona, 15 September 1997.

Slack MK. "The Apple Procedure for Writing a Research Report". Presented at the graduate seminar in the Department of Pharmacy Practice, College of Pharmacy, University of Arizona, 15 September 1997.

Slack MK. "Rural Health Training and Research". Presented at the graduate seminar in the Department of Pharmacy Practice, College of Pharmacy, The University of Arizona, 15 February 1998.

Slack MK. "The Bonne Pomme Procedure for Writing a Research Report". Presented at the graduate seminar in the Department of Agricultural and Biosystems Engineering, College of Agriculture, The University of Arizona, 8 February 1999.

Slack MK. "Making a Presentation". Presented at the graduate seminar in the Department of Pharmacy Practice and Science, College of Pharmacy, The University of Arizona, 3 March 1999.

Draugalis JR, **Slack MK.** A continuous quality improvement model for developing innovative instructional strategies. 1999 AACP Institute on Pedagogical and Curricular Change. American Association of Colleges of Pharmacy. Xerox Document University and Training Center, Leesburg, VA. May 21-25, 1999.

Slack MK. "Evaluation Methods and Results". Presented at the 1999 Division of Associated Dental and Public Health Professions Cross-Program Conference. Las Vegas, Nevada, 29 June 1999.

Slack MK. *Community-Based Training in Health Promotion and Disease Prevention.* Khon Kaen University College of Nursing, Khon Kaen, Thailand. December 1999.

Slack MK. Rural Health: Is It a Public Health Issue? Presented in Public Health Grand Rounds, Health Sciences, The University of Arizona, Tucson, Arizona. 20 January 2000.

Seifer SD. Service Learning in Health Professions Education: Community Partnerships to Strengthen Student Learning. Panelists: Carol Galper MED, CHES; Sheila Parker, Ph.D.; **Marion Slack**, Ph.D., and Mary Vincenz, MSN, RN. Dean's Education Rounds in conjunction with Medicine Grand Rounds, College of Medicine, Arizona Health Sciences Center, University of Arizona, Tucson, Arizona. 12 January 2000.

Slack MK. "Writing a Research Report". Presented at the graduate seminar in the Department of Agricultural and Biosystems Engineering, College of Agriculture, University of Arizona, 28 August 2000.

Slack MK. "Writing a Research Report". Presented at the graduate seminar in the Department of Agricultural and Biosystems Engineering, College of Agriculture, University of Arizona, 4 October 2001.

Draugalis JR, **Slack MK.** Assessment Case Studies at the Graduate/Professional Level: Preparing Students for Professional Practice. Symposium: Measuring Success: Taking Responsibility for Learning, University of Arizona, University Park Marriott, 28 March, 2002.

Slack MK. "Unique issues associated with practice in rural environment, human factor issues and medication safety strategies". Rural Medication Safety Conference, Juneau, AL. August 2003.

Draugalis JR, Sauer KA, **Slack MK.** Using a competence document as a framework for student and program assessment. The 2003 Assessment Institute—IUPUI. 3 November 2003.

Slack MK, *Nuestra Comunidad, Nuestra Salud.* 8th Annual Fostering & Achieving Cultural Equity & Sensitivity (FACES) in Health Professions Conference. Tucson, Arizona: November 19, 2005

Slack MK. Assessing potential for bias in meta-analysis and implications for evaluating the risk of serious infection related to drug therapy. March 5, 2007, University of Okayama, Okayama, Japan. [Invited presentation]

Slack MK. A model for enabling pharmacy students to participate in research. March 5, 2007, University of Okayama, Okayama, Japan. [Invited presentation]

Slack MK. Writing a research proposal. December 11, 2007, UMC, Tucson, Arizona. [invited presentation]

Slack MK. Writing items to test conceptual knowledge. University of Connecticut College of Pharmacy. 9 Jan 2008

Slack MK. Writing a Research Proposal. ABE student seminar. Khon Kaen University, Khon Kaen, Thailand. Aug 12, 2009.

Other Presentations:

Schilit R, McEwen MM, Gordon IT. "Interdisciplinary training: needs assessment in a rural community" [presentation made for first author], Interdisciplinary Health Care Team Conference, Chicago, Illinois; September, 1992.

Gordon IT. "Rural interdisciplinary training," [presentation made for author], National Rural Health Association Meeting, Kansas City, Missouri; May, 1993.

Student Presentations:

The following are student presentations for which I have served as a faculty mentor.

Chafetz DP. "Nuestra Comunidad, Nuestra Salud". A Day of Clinical Nursing Research, The University of Arizona, October 1998.

Patterson R, Gribbon J, Lohse S, Osborne M, Eskew S. "Nuestra Comunidad, Nuestra Salud: Our Community, Our Health". [Poster] The University of Arizona, Tucson, AZ. November 1997.

Marshall S. "Nuestra Comunidad, Nuestra Salud: Interdisciplinary Training for Health Care in Rural Areas". MPH Internship presentation, The University of Arizona, Tucson, AZ. December 1997.

Patterson R, Gribbon J, Lohse S. "Nuestra Comunidad, Nuestra Salud: Our Community, Our Health". [Poster] Arizona State Legislature, Phoenix, AZ. April 1998.

Sanchez E. "The Use of Natural Products along the U.S./Mexico Border for Treating Obesity". [Poster] Arizona Rural Health Conference, Sedona, AZ. August 1998.

Murphy L, Bell N. "Vision for Rural Interdisciplinary Case Management". [Poster] Arizona Rural Health Conference, Sedona, AZ. August 1998.

Bell N. "Pharmaceutical Care as an Interdisciplinary Philosophy". [Poster] Arizona Rural Health Conference, Sedona, AZ. August 1998.

Chafetz DF, Perez E. "Salud Es Poder". [Poster] Arizona Rural Health Conference, Sedona, AZ. August 1998.

Chafetz DP, Coppel A, Lopez Y, Sanchez E. "Community as Partner Model Applied to a Diabetes Prevention Program by the Nuestra Comunidad, Nuestra Salud Interdisciplinary Team". [Poster] Arizona Rural Health Conference, Sedona, AZ. August 1998.

Chafetz DP. "Nuestra Comunidad, Nuestra Salud". MPH internship presentation, The University of Arizona, Tucson, AZ. September 1998.

Chafetz DP. "Nuestra Comunidad, Nuestra Salud". University of Arizona Clinical Nursing Research Day, Tucson, AZ, October 1998.

Coyle RA. "Interdisciplinary Team Approach to Health Care and the Influence of Response Shift Bias on Measuring Changes in Self-Perception in an Educational Setting". Presentation at University of Arizona College of Pharmacy Graduate Seminar, Tucson, AZ, November 1998.

Ranellone L. "Identifying the Needs of Patients with Diabetes Using a Quality Assurance Checklist". Student Showcase at the College of Pharmacy, The University of Arizona, Tucson, Arizona. April 8, 1999.
Rincon M. "Dep-Provera Use and Its Effects on Weight Gain in the Jemez Pueblo Women". Student Showcase at the College of Pharmacy, The University of Arizona, Tucson, Arizona. April 8, 1999.

Ruiter J. "Participation in a Rural Health Professions Program for Pharmacy Practice". Student Showcase at the College of Pharmacy, The University of Arizona, Tucson, Arizona. April 8, 1999.

Bell N, Murphy L. "A Vision of Rural Interdisciplinary Case Management (Nuestra Comunidad, Nuestra Salud Project)". Student Showcase at the College of Pharmacy, The University of Arizona, Tucson, Arizona. April 8, 1999.

Boot MJ. "A Description and Critique of a Rural Health Intervention: The Zuni Diabetes Project/Zuni Wellness Center". Student Showcase at the College of Pharmacy, The University of Arizona, Tucson, Arizona. April 8, 1999.

Chafetz DP, Sanchez E. "Nuestra Comunidad, Nuestra Salud: Our Community our Health". U.S./Mexico Border Health Association, San Antonio, TX, June 1999.

Chafetz DP, Sanchez E. "Nuestra Comunidad, Nuestra Salud: Our Community our Health". Association of Community Health Nursing Educators, Nashville, TN, June 1999.

Kocher T, Downey M. "Domestic Violence Assessment of Nogales, Arizona" [Poster]. Arizona Public Health Association Conference, Tucson, AZ, September 1999.

Chafetz DP, Perez E. "Salud Es Poder". American Public Health Association, Chicago, Illinois. November 7-11, 1999.

Downy, M. *A Domestic Violence Needs Assessment of the Community of Nogales*. Public Health Internship Conference, Arizona Health Sciences Center, Tucson, AZ. 7 April 2000.

Kocher TA. *Domestic Violence: Conducting a Needs Assessment in Nogales, Arizona*. College of Public Health Internship Conference, University of Arizona, Tucson, AZ. August 2000.

Encinas-Almada C., Gilray J., Landgraf A., Munkittrick A., Galaz D., Overgard E., Runquist J., Schnupp E., DeAnda P., Dunahm R., Laforme P., Sweeney C. Gonzales J., Cerda J. *Diabetes Education for Students and Health Professionals*. Arizona Rural Health Conference Poster Session, Prescott, AZ. July 2001.

Encinas-Almada C., Gilray J., Landgraf A., Munkittrick A., Galaz D., Overgard E., Schnupp C., Guido-Felix C., Nelson J., Runquist J. *Interdisciplinary Case Management for Diabetes in a Hispanic Population*. Arizona Rural Health Conference Poster Session, Prescott, AZ. July 2001.

Encinas-Almada, C. *Diabetes Education for Students and Health Professionals*. Arizona Public Health Association, Flagstaff, AZ. September 2001.

Yourison, I., Llazarevic, B., Reichardt, L., Bogelei, C., Bryce, N. Assessment of recreational facilities in Santa Cruz County, Arizona. [Poster] Arizona Rural Health Conference, Payson AZ, July 17-19, 2005.

Professional Organizations

American Association of Colleges of Pharmacy
American Pharmacists Association
American Institute of the History of Pharmacy
American Society of Health-System Pharmacists

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