

# NALIN PAYAKACHAT

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## BIOSKETCH:

Nalin Payakachat serves as an Associate Professor with tenure in the Division of Pharmaceutical Evaluation and Policy (PEP), Department of Pharmacy Practice, University of Arkansas for Medical Sciences College of Pharmacy. She received her Ph.D. in health outcome measures from Purdue University in August 2008. Nalin's research focuses on methods for evaluating health-related quality of life outcomes and translating those outcomes into economic evaluations. Her expertise includes survey instrument development, psychometric testing, patient-reported outcomes methodological design, healthcare utilization, and health economics and outcomes research. Recent areas of interest have been the selection of appropriate outcome measures in specific populations such as children with autism, cancer patients. Nalin is also interested in women's health and efficiency in healthcare delivery systems.

**Keywords:** Autism, Behavioral health, Caregiver health, Caregiver spillover effects, Child health, Family spillover effects, Instrument development, Instrument validation, Intellectual and Developmental Disabilities, Health preference measures, Health outcomes research, Health economics, Health services research, Health delivery system, Mental health, physical health, Psychometric properties testing, Population health, Health-related quality of life, Quality of life measures, Quality of life, Structural equation modeling, Survey research, Women's health

## EDUCATION:

Doctor of Philosophy Purdue University, August 2008  
Health outcomes and Health economics  
Dissertation: Predicting utility values in low vision: Estimation from NEI-VFQ 25.  
Advisor: Kent H. Summers, R.Ph., Ph.D.

Pharmacy Resident and Fellow Khon Kaen University, Thailand, 2001  
Pharmacotherapy (Neurology)  
Researched and trained in drug utilization in adult neurology, with a focus on stroke, epilepsy, Parkinson's disease, multiple sclerosis, and hemifacial spasm.  
Advisor: Suthipun Jitpimolmard, M.D.

Master of Science Mahidol University, Thailand, 1995  
Pharmacology  
Thesis: Pharmacokinetics of phenytoin in healthy Thais.  
Advisor: Chuthamane Suthisisang, Ph.D.

Bachelor of Science (5-year program) Khon Kaen University, Thailand, 1993  
Pharmacy

## CERTIFICATE:

Advanced Pharmacoeconomic Modeling University of Arizona College of Pharmacy, 2015  
Discrete Choice Analysis: Predicting demand and market share  
MIT Professional Education, 2014

**ACADEMIC AND PROFESSIONAL POSITIONS:**

- 7/2014 – Present Associate Professor, Division of Pharmaceutical Evaluation and Policy, Department of Pharmacy Practice, University of Arkansas for Medical Sciences College of Pharmacy.
- 8/2008 – 6/2014 Assistant Professor, Division of Pharmaceutical Evaluation and Policy, Department of Pharmacy Practice, University of Arkansas for Medical Sciences College of Pharmacy.
- 8/2007 – 7/2008 Graduate Research Assistant, Department of Pharmacy Practice, Purdue University  
Database analysis using clinical trial phase I/II data in age-related macular degeneration.
- 1/2004 – 7/2007 Graduate Teaching Assistant, Department of Pharmacy Practice, Purdue University  
Coordinated and managed classes of 170 undergraduate pharmacy students.
- 10/2003 – 5/2006 Pharmacy Intern, St. Elizabeth Medical Center, Lafayette (1,500 hours)  
Prepared IV solutions, total/partial parenteral nutrition, and peripheral intravenous chemotherapy drugs.  
Processed prescription orders into a hospital computer system for in patient daily dispensing.  
Supervisor: Donna Giroux, R.Ph.
- 5/2006 – 7/2006 Graduate Research Assistant, World Wide Outcomes Research Group, Pfizer Inc  
Researched competitors' glaucoma products and recommended potential outcomes research studies and initiatives.  
Supervisor: Marko Mychaskiw, R.Ph, Ph.D.
- 1/2001 – 12/2002 Clinical Pharmacist, Srinagarind Hospital, Khon Kaen University, Thailand  
Consulted staff and medical residents within the neurology unit and general medicine ward.
- 4/2001 – 5/2001 Pharmacy Intern, University of Illinois at Chicago Hospital, Chicago  
Two rotations in anticoagulant clinic and neurology clinic (outpatient).
- 1/1998 – 6/2003 Assistant Professor, Department of Clinical Pharmacy, Khon Kaen University, Thailand  
Lectured 4<sup>th</sup> and 5<sup>th</sup> year pharmacy students and graduate students in pharmacotherapy, researched drug utilization, and supervised clinical rotations in pharmacokinetics, acute care, ambulatory care, and the university drug information center.
- 6/1994 – 12/1997 Instructor, Faculty of Pharmacy, Silpakorn University, Thailand, 1994-1997  
Lectured 3<sup>rd</sup> and 4<sup>th</sup> year pharmacy students in pharmacology and toxicology.

**PEER-REVIEWED SCIENTIFIC PUBLICATIONS:**

1. Payakachat N, Hadden KB, Hanner J, Ragland D. Maternal knowledge of pertussis and Tdap vaccine and use of vaccine information statement. Health Education Journal 2017 (Accepted November 15, 2017)

2. Kathe N, Hayes J, Bhandari NR, Payakachat N\*. Assessment of reliability and validity of SF12v2 among diabetic population. *Value in Health* 2017. (in press)  
<https://doi.org/10.1016/j.jval.2017.09.007>  
*\*Corresponding author*
3. Payakachat N, Tilford JM, Kuhlthau K. Parent-reported utilization of interventions by toddlers and preschoolers with autism spectrum disorder. *Psychiatric Services* 2017 (in press)  
<https://doi.org/10.1176/appi.ps.201600524>
4. Franks AM, Hawes WA, McCain KR, Payakachat N. Electronic cigarette use, knowledge, and perceptions among health professional students. *Currents in Pharmacy Teaching and Learning* 2017. <https://doi.org/10.1016/j.cptl.2017.07.023>
5. Pate AN, Payakachat N, Harrell TK, Pate AK, Caldwell DJ, Franks AM. Measurement of grit and correlation to student pharmacist academic performance: a multicenter study. *AJPE* 2017;81(6): Article 105
6. Kuhlthau KA, McDonell E, Coury DL, Payakachat N, Macklin E. Associations of quality of life with health-related characteristics among children with autism. *Autism* 2017, doi: 10.1177/1362361317704420. [Epub ahead of print]
7. Rhoads SJ, Serrano CI, Lynch C, Ounpraseuth S, Gauss CH, Payakachat N, Lowery C, Eswaran H. Exploring the Implementation of mHealth Monitoring in Postpartum Women with Hypertension. *Telemedicine and e-Health* 2017, doi:10.1089/tmj.2016.0272.
8. Hayes CJ, Bhandari NR, Kathe N, Payakachat N\*. Reliability and validity of the Medical Outcomes Study Short Form-12 Version 2 (SF-12v2) in adults with non-cancer pain. *Healthcare* 2017, 5, 22; doi:10.3390/healthcare5020022  
*\*Corresponding author*
9. Stafford R, Thomas, Payakachat N, Diemer T, Lang M, Kordsmeier B, Curran G. Using an array of implementation strategies to improve success rates of pharmacist-initiated medication therapy management services in community pharmacies. *Research in Social and Administrative Pharmacy* 2017, <https://doi.org/10.1016/j.sapharm.2017.04.006>
10. Doshi P, Tilford JM, Kuo D, Ounpraseuth S, Payakachat N\*. Do insurance mandates affect racial disparities in outcomes for children with autism? *Maternal and Child Health Journal* 2017;21(2):351-66. DOI: 10.1007/s10995-016-2120-z.  
*\*Corresponding author*
11. Castleberry A, Payakachat N, Carle MH, Neill KK, Nolen A, Franks AM. Qualitative analysis of written reflections during a Teaching Certificate Program. *American Journal of Pharmaceutical Education* 2016;80(1): Article 10.
12. Payakachat N, Tilford JM, Ungar W. National Database for Autism Research (NDAR): Big data opportunities for health services research and technology assessment. *Pharmacoeconomics* 2016;34(2):127-38.
13. Payakachat N, Hadden KB, Ragland D. Promoting Tdap immunization in pregnancy: Associations between maternal perceptions and vaccination rates *Vaccine*. *Vaccine* 2016;34(1):179-186. doi: 10.1016/j.vaccine.2015.09.062.
14. Tilford JM, Payakachat N. Progress in measuring family spillover effects for economic evaluation. (Editorial) *Expert Review of Pharmacoeconomics & Outcomes Research* 2015; 2:195-198. doi:10.1586/14737167.2015.997216

\*Cited in *Chapter 7: Valuing Health Outcome of the 2<sup>nd</sup> US Panel recommendations for conducting CEA.*

15. Ragland D, Payakachat N. Health literacy in obstetric patients: A pharmacist's experience with the New Vital Sign. *Pharmacy* 2015;3(4):372-378. doi: 10.3390/pharmacy3040372
16. Gubbins PO, Ragland D, Castleberry AN, Payakachat N. Family commitment and work characteristics among pharmacists. *Pharmacy* 2015;3: 386-398. doi:10.3390/pharmacy3040386
17. Tilford JM, Payakachat N, van Excel J, Erica Kovacs, Jeffery Pyne, Karen Kuhlthau, Werner BW. Treatment for sleep problems in children with autism and caregiver spillover effects. *Journal of Autism and Developmental Disorders*, 2015;45(11):3613-23. doi: 10.1007/s10803-015-2507-5.
18. Payakachat N, Ali M, Tilford JM. Can the EQ-5D detect meaningful change? A systematic review. *Pharmacoeconomics* 2015, 33(11):1137-54. doi: 10.1007/s40273-015-0295-6
19. Said Q, King A, Erickson S, Payakachat N, Hutchison LC. Self-reported plan switching in Medicare Part D: 2006-2010. *American Journal of Pharmacy Benefits* 2015;6(6):e157-e168.
20. Ragland D, Payakachat N, Stafford RA. Emergency contraception counseling in a retail pharmacy setting: A pilot study. *Journal of Pharmacy Practice* 2015; 28: 261-265.  
<http://dx.doi.org/10.1177/0897190013516507>
21. Ragland D, Battle M, Kueter TJ, Payakachat N. Consumer attitudes towards and satisfaction with emergency contraception counseling: Experience from clinic and retail pharmacy settings. *International Journal of Pharmacy Practice* 2015. January 1. DOI: 10.1111/ijpp.12166
22. Ragland D, Payakachat N, Dajani N. Barriers to intrauterine device use at a university-based women's clinic. *Open Journal of Obstetrics and Gynecology* 2014;4: 1058-64.
23. Payakachat N, Tilford JM, Kuhlthau KA, van Exel J, Erica Kovacs, Bellando J, Pyne JM, Brouwer W. Predicting health utilities for children with autism spectrum disorders. *Autism Research* 2014; 7:649-63. DOI: 10.1002/aur.1409
24. Kuhlthau K, Payakachat N, Delahaye J, Hurson J, Pyne JM, Kovacs E, Tilford JM. Quality of life for parents of children with autism spectrum disorders. *Research in Autism Spectrum Disorders* 2014;8(10):1339-50. doi:10.1016/j.rasd.2014.07.002
25. Castleberry A, Payakachat N, Neill KK, Franks AM. Improvements in self-perceived teaching abilities after a postgraduate: Teaching Certificate Program. *Currents in Pharmacy Teaching & Learning* 2014; 6:401-405. <http://dx.doi.org/10.1016/j.cptl.2014.02.009>
26. Hoefman R, Payakachat N, van Exel J, Kuhlthau KA, Kovacs E, Pyne J, Tilford JM. Caring for a child with autism spectrum disorder and parents' quality of life: Application of the CarerQol. *Journal of Autism and Developmental Disorders* 2014, 44(8):1933-45.  
<http://dx.doi.org/10.1007/s10803-014-2066-1>
27. Payakachat N, Gubbins PO, Ragland D, Flowers SK, Stowe CD. Factors related to health-related quality of life among student pharmacists. *American Journal of Pharmaceutical Education* 2014;78(1):7.
28. Payakachat N, Gubbins PO, Ragland D, Norman SE, Flowers SK, Stowe CD, DeHart RM, Pace A, Hastings JK. Academic help-seeking behavior among student pharmacists. *American Journal of Pharmaceutical Education* 2013;77(1):7.  
  
\*Cited in *Report of the 2012-2013 Academic Affairs Standing Committee: Revising the Center for the Advancement of Pharmacy Education (CAPE) Educational Outcomes 2013.*
29. Ragland D, Payakachat N, Ounpraseuth S, Stinnett A, Dajani N. Depressive symptoms in pregnant women: Does diabetes have an impact? *Journal of Women's Health Care* 2012;1:5.  
<http://dx.doi.org/10.4172/2167-0420.1000118>

30. Payakachat N, Tilford JM, Kuhlthau K, Kovacs E. Autism spectrum disorders: A review of measures for clinical, health services, and cost-effectiveness applications. *Expert Review of Pharmacoeconomics & Outcomes Research* 2012;12(4):485-503.
31. Payakachat N, Ounpraseuth S, Suen JY. Late complications and long-term quality of life of survivors (> 5 years) with histories of head and neck cancer. *Head & Neck* 2013;35(6): 918-25. (First published online: July 17, 2012) doi: 10.1002/hed.23035.
32. Tilford JM, Payakachat N, Kovacs E, Pyne J, Brouwer W, Todd N, Bellando J, Kuhlthau K. Preference-based health-related quality of life outcomes in children with autism spectrum disorders: A comparison of generic instruments. *Pharmacoeconomics* 2012;30(8):661-79.
33. Ragland D, Payakachat N, Pate A, Harrod SE, Ott RE. Emergency contraception counseling: An opportunity for pharmacists. *Journal of American Pharmacists Association* (2003) 2011;51(6):756-61
34. Payakachat N, Ounpraseuth S, Ragland D, Murawski MM. Job and career satisfaction among preceptors. *American Journal of Pharmaceutical Education* 2011;75(8). Article 153.  
\*Cited in *Report of the 2011-2012 AACP Professional Affairs Committee: Addressing the Teaching Excellence of Volunteer Pharmacy Preceptors*.
35. Payakachat N, Tilford JM, Brouwer W, van Exel J Grosse SD. Measuring health and well-being effects in family caregivers of children with craniofacial malformations. *Quality of Life Research* 2011;20(9):1487-95.
36. Payakachat N, Ragland D, Houston C. Impact of emergency contraception on unintended pregnancy: observational data from a women's health practice. *Journal of Pharmacy Practice* 2010;8(3):173-8.
37. Ragland D, Payakachat N, Hays EB, Banken J, Dajani NK, Ott RE. Depression and diabetes: Establishing the pharmacist's role in detecting comorbidity in pregnant women. *Journal of American Pharmacist Association* 2010;50:195-99.
38. Payakachat N, Murawski MM, Summers KH. Health utility and economic analysis: Theoretical and practical issues (Editorial). *Expert Review of Pharmacoeconomics & Outcomes Research* 2009;9(4):289-92.
39. Payakachat N, Pleil A, Summers KH, Murawski MM, Anderson J, Jennings K, Thomas III J. Predicting EQ-5D utility scores from the 25-item National Eye Institute Vision Function Questionnaire (NEI-VFQ 25) in patients with age-related macular degeneration. *Quality of Life Research* 2009;18:801-13.  
\*Cited in *NICE DSU technical support document 10: the use of mapping methods to estimate health state utility values*.
40. Murawski MM, Payakachat N, Koh-Knox, C. Factors related to job and career satisfaction in community pharmacy: Structural equation modeling approach. *Journal of American Pharmacist Association* 2008;48(5):610-20.
41. Payakachat N, Summers KH, Barbuto JP. A Comparison of clinical practice guidelines in the initial pharmacological management of new-onset epilepsy in adults. *Journal of Managed Care Pharmacy* 2006;12(1):55-60.
42. Summers KH, Payakachat N. Quality assessment of clinical practice guidelines. (Editorial). *Expert Review of Pharmacoeconomics & Outcomes Research* 2006;6(1):1-4.
43. Foocharoen C, Jitpimolmard S, Payakachat N, Jansong K, Tiamkao S . Clinical features of patients with hemifacial spasm. *Neurology Journal Thailand* 2003;3:70-6.
44. Jitpimolmard S, Payakachat N. Wilson's Disease: A case report. *Bulletin of the Neurological Society of Thailand* 2001; 16(3): 24-9. (Thai)
45. Payakachat N. MSG symptom complex. *Clinic* 2001; 200(7/8): 724-6. (Thai)

46. Chitravas N, [Payakachat N](#), Jitpimolmard S. Bechet's Disease: A case report. Bulletin of the Neurological Society of Thailand 2000; 15(4): 87-95. (Thai)
47. Suthisisung J, [Payakachat N](#). Bioavailability of phenytoin sodium capsules available in Thailand Part I: In vitro study. Journal of Medical Association of Thailand 1998; 81(1): 58-63
48. Suthisisung J, [Payakachat N](#). Bioavailability of phenytoin sodium capsules available in Thailand Part II: In vivo study. Journal of Medical Association of Thailand 1998; 81(1): 64-70
49. [Payakachat N](#), Charuchinda J. Pharmacology of GABA receptor. Thai Journal of Pharmacology, 16-17, 1994-1995: 43-53.

#### **MANUSCRIPTS IN REVIEW:**

1. Castleberry AN, Housley C, [Payakachat N](#), Heldrenbrand S, Neill KK, Stowe CD. A framework for the Patient Care Process in authentic assessment: CHARM®
2. [Payakachat N](#), Long C, McElfish P, Narcisse M, Felix H, Bursac Z, Teresa H. Health of Native Hawaiia and Pacific Islander children with developmental disabilities.
3. Narcisse M, Felix H, Long C, Teresa H, [Payakachat N](#), Bursac Z, McElfish P. Frequency and predictors of health services use by Native Hawaiians and Pacific Islanders.
4. McElfish P, Narcisse M, Felix H, Long C, Teresa H, [Payakachat N](#), Bursac Z. Cost-related nonadherence to medication treatment plans: Native Hawaiian and Pacific Islander National Health Interview Survey, 2014
5. Thompson JW, Goudie A, Self J, et al. Evaluation of Arkansas's Medicaid Expansion Using Premium Assistance Demonstrates Improved Access and Clinical Performance but at a Higher Cost.
6. Bhandari NR, Day KA, [Payakachat N](#), Franks A, McCain K, Ragland D. Use and Risk Perception of Tobacco versus Electronic Nicotine Delivery Systems in Pregnancy.
7. Brown C, Tilford JM Williams DK, Kuhlthau KA, Brouwer W, [Payakachat N](#). Measuring caregiver spillover effects associated with autism spectrum disorders: A comparison of the EQ-5D and SF-6D.
8. Hayes CJ, Bhandari NR, Kathe N, [Payakachat N](#). Health-Related Quality of Life among Chronic Opioid Users, Non-Chronic Opioid Users, and Non-Opioid Users with Chronic Noncancer Pain
9. Bhandari NR, Kathe N, Hayes C, [Payakachat N](#). Reliability and validity of the Medical Outcomes Study Short Form-12 among adults with self-reported cancer using a US nationally representative survey.
10. Bhandari NR, Kathe N, Hayes CJ, Li C, and [Payakachat N](#). Impact of Benefit Finding on Health-related Quality of Life Among Cancer-free and Not Cancer-free Americans.
11. Li X, Tilford JM, [Payakachat N](#). Quality of life in post-myocardial infarction patients.

#### **WORKING MANUSCRIPTS:**

*Confidential*

#### **PEER-REVIEWED RESEARCH PRESENTATIONS:**

1. [Payakachat N](#), Long CR, Narcisse M, McElfish PA. Health and use of early intervention/special education of Native Hawaiian and Pacific Islander children with developmental disability: United

- States, 2014. International Society for Quality of Life Research Annual Conference, Philadelphia, PA, October 18-21, 2017. (Poster)
2. Bhandari NR, Payakachat N. Major Depressive Disorder in the Elderly Patients with Multiple Myeloma Using SEER-Medicare Health Outcomes Survey. International Society for Quality of Life Research Annual Conference, Philadelphia, PA, October 18-21, 2017. (Poster)
  3. O'Brien CE, Stafford R, Teeter B, Reid J, Payakachat N, Franks A. Patient-centered communication uptake during a community pharmacy IPPE: A qualitative analysis. AACP Annual Meeting, Nashville, TN, July 15-19, 2017. (Poster)
  4. Heldenbrand S, Castleberry A, Payakachat N, et al. MMI, PCAT, and Pharmacy GPA are associated with performance on high-stakes examination in senior year. AACP Annual Meeting, Nashville, TN, July 15-19, 2017. (poster)
  5. Payakachat N, Pyne J, Tilford JM, Hudson T, Goudie A, Thompson J. Changes in health status in the Arkansas Medicaid Expansion population. AcademyHealth Annual Research Meeting, New Orleans, LA. June 25-27, 2017
  6. Lakkad M, Bhandari NR, Payakachat N. Use of dietary supplements and cancer fatalistic beliefs among Americans. ISPOR 22<sup>nd</sup> Annual International Meeting. Boston, MA. May 20-24, 2017. (poster)
  7. Acharya M, Bhandari NR, Payakachat N. Association between Cancer Information Seeking via Internet and Cancer Fatalistic Beliefs among Americans using Health Information National Trends Survey. ISPOR 22<sup>nd</sup> Annual International Meeting. Boston, MA. May 20-24, 2017. (poster)
  8. Gressler L, Payakachat N. Quality of life of adults with self-reported prostate cancer: A report from the Medical Expenditure Panel Survey. International Society for Quality of Life Research Annual Conference, Copenhagen, Denmark, October 19-22, 2016. (Poster)
  9. Bhandari NR, Payakachat N. Association of Benefit Finding with Health-related Quality of Life among American Cancer Survivors Using the Medical Expenditure Panel Survey. International Society for Quality of Life Research Annual Conference, Copenhagen, Denmark, October 19-22, 2016. (Poster)
  10. Payakachat N, Pyne J, Tilford JM, Hudson T, Goudie A, Thompson J. Association of Insurance and Access Characteristics with Quality of Life in the Arkansas Medicaid Expansion Population. International Society for Quality of Life Research Annual Conference, Copenhagen, Denmark, October 19-22, 2016. (Poster)
  11. Housley C, Shilling R, Heldenbrand SD, Payakachat N, Castleberry AN, Flowers S, Hammond DA. Evaluating the impact of APPE rotations on pharmacy student attitudes and perceptions toward interprofessional health care. ACCP Annual Meeting. Hollywood, FL. October 2016. (poster)
  12. Hawthorne J, Jones K, Payakachat N, Hutchison L. Growth in experience and level of comfort with research design and implementation demonstrated by PGY1 residents in Arkansas. ACCP Virtual Poster Symposium. June 2016. (poster)
  13. Payakachat N, Tilford JM, Kuhlthau K. Self-reported utilization of interventions by toddlers and preschoolers with autism spectrum disorder. The 23<sup>rd</sup> NIMH Conference on Mental Health Services Research: Harnessing Science to Strengthen the Public health impact, Bethesda, MD, August 1-3, 2016. (Platform)
  14. Li X, Payakachat N. Quality of life in post-myocardial infarction patients. The 2016 Southern Pharmacy Administration Conference, Oxford, MS, June 24-26, 2016. (Platform)
  15. Kathe N, Payakachat N. Reliability and validity of SF12v2 in Medical Expenditure Panel Survey Diabetes Population. The 2016 Southern Pharmacy Administration Conference, Oxford, MS, June 24-26, 2016. (Platform)
  16. Ray R, Payakachat N. Asthma and quality of life: What is the patient saying? The 2016 Southern Pharmacy Administration Conference, Oxford, MS, June 24-26, 2016. (Poster)

17. Dayama NN, Payakachat N. Psychometric evaluation of the SF12v2 for individuals with rheumatoid arthritis and depression. The 2016 Southern Pharmacy Administration Conference, Oxford, MS, June 24-26, 2016. (Poster)
18. Chopra D, Shah A, Payakachat N. Predictors of intention to first-time use of e-cigarettes in adolescents using a structural equation modeling approach. The 2016 Southern Pharmacy Administration Conference, Oxford, MS, June 24-26, 2016. (Poster)
19. Bhandari NR, Payakachat N. Reliability and validity of the SF-12 among adults with self-reported cancer using a US nationally representative survey. The 2016 Southern Pharmacy Administration Conference, Oxford, MS, June 24-26, 2016. (Poster)
20. Payakachat N, Pyne J, Tilford JM, Hudson T, Goudie A, Thompson J. Physical and mental health of the Medicaid expansion population in Arkansas. 2016 AcademyHealth Annual Research Meeting, Boston, MA, June 26-28, 2016. (Platform)
21. Brown C, Payakachat N, Williams DK, Tilford JM. Measuring caregiver spillover effects associated with autism spectrum disorders: A comparison of the EQ-5D and SF-6D. The 2016 AcademyHealth Annual Research Meeting, Boston, MA, June 26-28, 2016. (Poster)
22. Harrel K, Caldwell D, Pate A, Pate KA, Payakachat N, Franks AM. Is grittiness associated with academic performance of student pharmacists? The AACP Annual Meeting, Pharmacy Education 2016, Anaheim, CA, July 23-27, 2016. (Poster)
23. Ragland D, Hanner J, Jokodola T, Blanks LI, Hadden K, Payakachat N. Factors associated with maternal knowledge of pertussis and the Tdap vaccine. Women's Health 2016: the 24th Annual Congress. Washington, DC. April 2016. (poster)
24. Day K, Bhandari NR, Payakachat N, Franks AM, McCain KR, Ragland D. Knowledge and Use of Electronic-Cigarettes among Pregnant Women. American Pharmacists Association (APhA) Annual Meeting & Exposition. March 4-7, 2016, Baltimore, MD. (Poster)
25. Scott N, Curran GM, Payakachat N. Implementing medication therapy management in the community pharmacy workflow: A new protocol for the retail chain. APhA 2016 Annual Meeting & Exposition. March 4-7, 2016. Baltimore, MD. (Poster)
26. Payakachat N, Tilford JM, Kuhlthau KA. Estimating health utilities scores for children with autism using a mapping algorithm: Secondary analysis using NDAR. International Society for Quality of Life Research (ISOQOL) 22<sup>nd</sup> Annual Meeting. Vancouver, Canada, October 21-24, 2015. (Platform)
27. Castleberry AN, Payakachat N, Heldenbrand SD, Neill KK, Stowe CD. First impressions: How interview communication indicators correlate with curricular performance. The AACP Annual Meeting, Pharmacy Education 2015, National Harbor, MD, July 11-15, 2015. (Poster)
28. Castleberry AN, Housley CL, Payakachat N, Neill KK, Stowe CD. CHARMing students with feedback in authentic assessment. The AACP Annual Meeting, Pharmacy Education 2015, National Harbor, MD, July 11-15, 2015. (Poster)
29. Castleberry AN, Neill KK, Payakachat N, Stowe CD. A CHARMing method of authentic assessment. The AACP Annual Meeting, Pharmacy Education 2015, National Harbor, MD, July 11-15, 2015. (Platform, 2015 Excellence in Assessment Award)
30. Payakachat N, Tilford JM, Kuhlthau KA. Utilization of early behavioral and educational interventions by children with autism spectrum disorders. 2015 AcademyHealth Annual Research Meeting, Minneapolis, MN, June 14-16, 2015. (Poster)
31. Payakachat N, Tilford JM. Identifying interventions for dissemination and implementation research using the National Database for Autism Research (NDAR): Promises and pitfalls. The 2015 International Meeting for Autism Research. Salt Lake City, Utah, May 13-16, 2015. (Poster)



32. Tilford JM, Payakachat N. Cost-effectiveness evaluation for services provided to people with autism: Update and recommendations. The 2015 International Meeting for Autism Research. Salt Lake City, Utah, May 13-16, 2015. (Poster)
33. Kuhlthau KA, McDonnell E, Payakachat N, Coury DL, Delahaye J, Macklin E. Correlates of Cross-sectional and longitudinal health-related quality of life among children with autism spectrum disorders. The 2015 International Meeting for Autism Research. Salt Lake City, Utah, May 13-16, 2015. (Poster)
34. Doshi P, Payakachat N, Kuo D, Ounpraseuth S, Tilford JM. Effects of private insurance mandates on racial disparities in health and family outcomes for children with autism. International Society for Quality of Life Research (ISOQOL) 21<sup>th</sup> Annual Meeting. Berlin, Germany, October 15-18, 2014. (Poster)
35. Payakachat N, Tilford JM, Kovacs E, Pyne JM, Kuhlthau K. Impact of gastrointestinal problems on children with autism spectrum disorders and their caregivers. International Society for Quality of Life Research (ISOQOL) 21<sup>th</sup> Annual Meeting. Berlin, Germany, October 15-18, 2014. (Poster)
36. Tilford JM, Payakachat N, Kovacs E, Pyne JM, Kuhlthau K. Outcomes associated with gastrointestinal disorders for children with autism spectrum disorders and their caregivers. 2014 International Health Economics Association World Congress, Dublin, Ireland, July 13-16, 2014. (Organized session: Spillover effects in health)
37. Castleberry AN, Nolen AL, Payakachat N, Carle M, Neill KK, Franks AM. Reading between the lines: using essays to assess the teacher reflection of residents in a pharmacy college. American Educational Research Association 2014 Annual Meeting. Philadelphia, PA; April 2014. (Platform)
38. Payakachat N, Ragland D, Gubbins P. Family commitment and work challenge among pharmacists. The AACP Annual Meeting, Pharmacy Education 2014, Grapevine, TX, July 26-30, 2014. (Poster)
39. Ragland D, Payakachat N. Pharmacy Practice Student Research Fellowships: Outcomes and benefits of women's health projects. The AACP Annual Meeting, Pharmacy Education 2014, Grapevine, TX, July 26-30, 2014. (Poster)
40. Dayer L, Linck M, Payakachat N. Barriers to medication adherence among patients receiving oral antineoplastic agents. The 2014 American College of Clinical Pharmacy Virtual Poster Symposium, May 20-21, 2014.
41. Jordan M, Ragland D, Payakachat N. Health literacy of obstetric patients at a university women's clinic. The 2014 American College of Clinical Pharmacy Virtual Poster Symposium, May 20-21, 2014.
42. Payakachat N, Tilford JM, Kovacs E, Bellando J, Pyne JM, Kuhlthau KA. Applications of mapping algorithms to predict health utilities for children with autism spectrum. The 22<sup>nd</sup> National Institute of Mental Health (NIMH) Conference on Mental Health Services Research (MHSR): Research in Pursuit of a Learning Mental Health Care System, the Natcher Conference Center on the NIH Campus, Bethesda, MD, April 23-25, 2014. (Platform)
43. Payakachat N, Tilford JM, Kuhlthau KA, Kovacs E, Bellando J, Pyne JM. Predicting health utilities for children with autism spectrum disorders. International Society for Quality of Life Research (ISOQOL) 20<sup>th</sup> Annual Meeting. Miami, FL, October 9-12, 2013. (Poster)
44. Payakachat N, Tilford JM, Kovacs E, Delahaye J, Kuhlthau KA. Relationship between child health-related quality of life and SF-6D scores for children with autism and their caregivers. International Society for Quality of Life Research (ISOQOL) 20<sup>th</sup> Annual Meeting. Miami, FL, October 9-12, 2013. (Platform)
45. Tilford JM, Payakachat N, Pyne JM, Kovacs E, Kuhlthau KA, Brouwer W. Health utilities and caregiver spillover effects associated with sleep problems in children with autism spectrum disorders. International Society for Quality of Life Research (ISOQOL) 20<sup>th</sup> Annual Meeting. Miami, FL, October 9-12, 2013. (Platform)

46. Ashby SN, Castleberry A, Payakachat N, Neill KK, Carle MH, Franks A. Thematic assessment of reflective essays for a Teaching Certificate Program. The 2013 AACP Annual Meeting Academic Pharmacy. Chicago, IL, July 13-17, 2013. (Poster)
47. Ragland D, Payakachat N, Nafisa K. Barriers to intrauterine device use at a university-based women's clinic. 2013 AACP Virtual Poster Symposium. May 21-22, 2013. (Poster)
48. Ragland D, Payakachat N, Battle M, Caraway J, Dajani N. Contraception use in women with diabetes. The 7<sup>th</sup> International Diabetes in Pregnancy Symposium. Florence, Italy, March 13-16, 2013. (Poster)
49. Battle M, Kueter TJ, Caraway J, Ragland R, Payakachat N. Customer satisfaction with emergency contraception counseling in a retail pharmacy setting. The APhA Annual meeting and Exposition, Los Angeles, CA, March 1-4, 2013. (Poster)
50. Payakachat N, Hoefman RJ, Kovacs, van Exel J, Pyne J, Kuhlthau K, Tilford JM, Brouwer W. Quality of life among parents of children with autism spectrum disorders: A comparison of generic instruments. The International Society for Quality of Life Research (ISOQOL) 19<sup>th</sup> Annual Meeting. Budapest, Hungary, October 24-27, 2012. (Platform)
51. Payakachat N, Norman SE, Pace A, Flowers SK, Ragland D, Gubbins PO. Diminished quality of life among US student pharmacists: How self-perception toward pharmacy study plays role? The International Society for Quality of Life Research (ISOQOL) 19<sup>th</sup> Annual Meeting. Budapest, Hungary, October 24-27, 2012. (Poster)
52. Tilford JM, Payakachat N, Pyne J, Kuhlthau K, Brouwer W, Kovacs E. Comparing experienced utility values from generic instruments for caregivers of children with autism. The 2012 European Conference on Health Economics (ECHE). Zurich, Switzerland, July 18-21, 2012. (Platform)
53. Tilford JM, Payakachat N, Pyne J, Kuhlthau K. Incorporating caregiver spillover effects associated with sleep abnormalities in children with autism spectrum disorders. The 4<sup>th</sup> Biennial Conference of American Society of Health Economics (ASHEcon). Minnesota, June 10-13, 2012. (Poster)
54. Payakachat N, Norman SE, Gubbins PO, Flowers SK, Stowe CD, DeHart RM, Ragland DE, Pace AC, Hastings JK. Academic help-seeking behavior among pharmacy students: A mixed method approach. The 2012 AACP Annual Meeting: Pharmacy Education. Kissimmee, FL, July 14-18, 2012. (Poster)
55. Castleberry A, Payakachat N, Neil KK, Franks AM. Self-perceived teaching abilities before and after completion of a postgraduate teaching certificate program. The 2012 AACP Annual Meeting: Pharmacy Education. Kissimmee, FL, July 14-18, 2012. (Poster)
56. Heldenbrand S, Jones G, Bornhorst J, Payakachat N. Extended comparison of therapeutic treatment outcomes of *de novo* liver and kidney transplant recipients with generic tacrolimus (Sandox<sup>TM</sup>) or brand name (Prograf<sup>(R)</sup>). The 2012 American Transplant Congress (ATC). Boston, MA, June 2-6, 2012. (Poster)
57. Kuhlthau K, Payakachat N, Delahaye J, Pyne J, Kovacs E, Tilford JM. Understanding quality of life for parents of children with autism spectrum disorder. The 2012 Pediatric Academic Societies. Boston, MA, May 1, 2012. (Platform)
58. Battle M, Patel B, Payakachat N, Ragland D. Patterns of contraception use in women receiving prenatal care at an academic healthcare center. The American Pharmacists Association Annual Meeting & Exposition. New Orleans, LA. March 9-12, 2012. (Poster)
59. Payakachat N, Suen JY. Speech problem and health-related quality of life in head and neck cancer survivors after five years of treatments. The International Society for Pharmacoeconomics and Outcomes Research 13<sup>th</sup> Annual European Congress. Madrid, Spain. November 5-8, 2011. (Poster)
60. Kuhlthau K, Payakachat N, Delahaye J, Pyne J, Kovacs E, Tilford JM. Measuring quality of life for caregivers of children with autism spectrum disorder for use in cost-effectiveness evaluations: A

mixed method approach. The International Society for Quality of Life Research 18<sup>th</sup> Annual Conference. Denver, CO, October 24-26, 2011. (Platform)

61. Payakachat N, Tilford JM, Pyne J, Bellando J, Kovacs E, Kuhlthau K. Measuring preference-weighted scores for children with autism spectrum disorders: a comparison of generic instruments. The 8<sup>th</sup> World Congress on Health Economics: Transforming Health & Economics. Toronto, Canada, July 10-13, 2011 (Platform)
62. Ragland D, Payakachat N, Nafisa D, Harrod SE. Predictors of insulin need during gestational diabetes mellitus. The 6<sup>th</sup> International Symposium on Diabetes and Pregnancy, Salzburg, Austria, March 24-26, 2011 (Poster)
63. Tilford JM, Payakachat N. Measuring quality-adjusted life years in children with autism. Division of Health Services Research Conference. December 6, 2010. North Little Rock VA, AR.
64. Issue Panel – Gerber A (moderator), Panelists: Brouwer W, Ungar WJ, Payakachat N. Utility measurement challenges in child health economic evaluation: what method to use? The International Society for Pharmacoeconomics and Outcomes Research 13<sup>th</sup> Annual European Congress. November 6-9, 2010. Prague Congress Centre in Prague, Czech Republic. (Platform)
65. Payakachat N, Tilford JM. Can cost-effectiveness analysis inform financing decisions associated with treatment for autism? Health Research, Policy and Health Promotion Conference. November 2, 2010. Little Rock, AR. (Platform)
66. Heldenbrand S, Turnbow L, Payakachat N. Patient self-efficacy and satisfaction after medication education following solid organ transplantation. The 2010 American College of Clinical Pharmacy (ACCP) Annual Meeting. October 17-20, 2010. Austin, TX. (Poster)
67. Ragland D, Payakachat N, Pate A, Harrod S. The impact of pharmacist counseling on patient knowledge of emergency contraception. The 2010 American College of Clinical Pharmacy (ACCP) Annual Meeting. October 17-20, 2010. Austin, TX. (Poster)
68. Tilford JM, Pyne JM, Payakachat N, Bellando BJ, Kuhlthau K. Measuring quality-adjusted life years for economic evaluations of treatment services for children with autism. The 15<sup>th</sup> NIMH Biennial Research Conference on Economics of Mental Health: Comparative effectiveness and mental health care financing, Washington, DC. September 27-28, 2010. (Platform)
69. Payakachat N, Grosse S, Tilford JM. Sensitivity of generic patient-reported outcomes measures among caregivers of children with craniofacial malformation. The International Society for Pharmacoeconomics and Outcomes Research 4<sup>th</sup> Asia-Pacific Conference, Phuket, Thailand. September 5-7, 2010. (Accepted May 14, 2010). (Poster)
70. O'Brien CE, Flowers SK, Payakachat N, Stowe CD. Preferred communication methods among pharmacy students. The 2010 American Association of Colleges of Pharmacy Annual Meeting. July 10-14, 2010. Seattle, WA. (Poster)
71. Tilford JM, Payakachat N. The CarerQol instrument in relation to measures of health utilities and quality of life outcomes in caregivers of children with craniofacial birth defects. European Conference on Health Economics, 8<sup>th</sup> (ECHE 2010). Helsinki, Finland. July 7-10, 2010 (Platform).
72. Payakachat N, Grosse S, Tilford JM. Comparison of preference-weighted scores and quality of life measures in family caregivers of children with craniofacial birth defects and autism spectrum disorders. 3<sup>rd</sup> Biennial Conference of the American Society of Health Economists, Cornell University, Ithaca, NY. June 20-23, 2010. (Platform).
73. Hays EB, Cummins T, Miller M, Payakachat N. The role of discharge medication counseling by pharmacists in a rural hospital setting. The American Pharmacists Association (APhA) Annual Meeting 2010, Washington DC. March 12-15, 2010. (Poster)
74. Payakachat N, Grosse SD, Tilford JM. Comparison of health utility and quality of life measures in family caregivers of children with craniofacial birth defects. The 16<sup>th</sup> Annual Scientific Meeting. International Society for Quality of Life Research. New Orleans, LA. October 28 – 31, 2009. (Poster)

75. Houston CD, Payakachat N, Ragland D. Impact of emergency contraception status on unintended pregnancy: Observational data from a routine practice. (1) The Arkansas Association of Health-Systems Pharmacists Fall Seminar 2009. Little Rock, AR. October 8 – 9, 2009. (1<sup>st</sup> place best poster) (2) The American Pharmacists Association (APhA) Annual Meeting 2010, Washington DC. March 12-15, 2010. (Poster)
76. Payakachat N, Pleil A, Summers KH. How driving and vision affect quality of life in patients with age-related macular degeneration. The 14<sup>th</sup> International Society for Pharmacoeconomics and Outcomes Research. Orlando, FL. May 15 – 20, 2009. (Poster)
77. Payakachat N, Summers KH, Pleil A. Mapping Between the NEI-VFQ 25 and the EQ-5D Utility Index: Model Comparisons. The 13<sup>th</sup> International Society for Pharmacoeconomics and Outcomes Research. Toronto, Canada. May 3 – 5, 2008. (Poster)
78. Foocharoen C, Jitpimolmard S, Payakachat N, Jansong K, Tiamkao S. Clinical Features of Patients with Hemifacial spasm. Evidence-base Management in Neurological Disorders, 4 th Floor Conference Room, Pramongkutklao Vejvidaya Building Pramonykutklao Hospital, 2003. (Platform)
79. Chitravas N, Jitpimolmard S, Payakachat N, Tiamkao S. The Appropriateness of Using Intravenous Phenytoin in Srinagarind hospital. Evidence-base Management in Neurological Disorders, 4 th Floor Conference Room, Pramongkutklao Vejvidaya Building Pramonykutklao Hospital, 2003. (Platform)
80. Payakachat N, Tiamkao S, Jitpimolmard S. Clonazepam in Hemifacial Spasm. The 3<sup>rd</sup> Bangkok Symposium on Clinical Neurophysiology and 42<sup>nd</sup> Annual Meeting of the Neurological Society of Thailand. Bangkok, Thailand. March 6-8, 2002. (Platform)
81. Payakachat N, Tiamkao S, Jitpimolmard S. Oral Drug Responsiveness in Hemifacial Spasm. The 6<sup>th</sup> Annual Meeting of Thai Neuroscience Society. Khon Kaen, Thailand. December 6-7, 2001. (Platform)
82. Payakachat N. Adverse Drug Reaction Monitoring in Medicine Ward, Srinagarind Hospital. The 6<sup>th</sup> Annual Meeting of Thai Neuroscience Society. Khon Kaen, Thailand. December 6-7, 2001. (Platform)
83. Payakachat N, Suthisisung J. Pharmaceutical Inequivalence of Phenytoin Sodium Capsules Available in Thailand. The 15<sup>th</sup> Asian Pharmaceutical Associations (FAPA). Bangkok, Thailand. November 15-19, 1994. (Poster)

#### RESEARCH PRESENTATIONS:

1. Cooper B, Payakachat N, Neill K, White L. A qualitative assessment of interprofessional education, from the students' perspective. 2015 Annual Society of Student-Run Free Clinics Conference, February 7-8, 2015. Atlanta, GA. (Poster)
2. Cooper B, Payakachat N, White L, Neill K. Pilot evaluation of an interprofessional education assessment rubric. 2015 Annual Society of Student-Run Free Clinics Conference, February 7-8, 2015. Atlanta, GA. (Poster)
3. Hawes WA, Payakachat N, McCain KR, Franks AM. Assessing health science students' knowledge regarding electronic cigarettes. Arkansas association of Health-System Pharmacists Fall Seminar, Little Rock, AR. October 2-3, 2014. (Poster)
4. Jokodola T, Hanner J, Blanks L, Hadden K, Ragland D, Payakachat N. Perceived risks and benefits of the Tdap vaccination among pregnant women. Arkansas association of Health-System Pharmacists Fall Seminar, Little Rock, AR. October 2-3, 2014. (Poster)
5. Hanner J, Jokodola T, Blanks L, Hadden K, Ragland D, Payakachat N. Factors associated with maternal knowledge of pertussis and Tdap vaccine. Arkansas association of Health-System Pharmacists Fall Seminar, Little Rock, AR. October 2-3, 2014. (Poster)

6. Shah A, Payakachat N. Determining factors influencing intention to quit smoking among adolescents. The 2014 Southern Pharmacy Administration Conference, Oklahoma City, OK. June 20-22, 2014. (Platform)
7. Kueter TJ, Battle M, Caraway J, Payakachat N, Ragland D. Emergency contraception counseling in a retail pharmacy setting. The 47<sup>th</sup> ASHP Midyear Clinical Meeting & Exhibition. Las Vegas, NV, December 2-6, 2012. (Poster)
8. Shewale A, Payakachat N. The impact of obesity on health related quality of life among elderly. The Biennial Southern Pharmacy Administration Conference and the Western Pharmacoeconomic Conference. Austin, TX. June 22-24, 2012. (Poster)
9. Potukuchi, P, Payakachat N. Effect of urinary incontinence on health-related quality of life among Medicare beneficiaries. The Biennial Southern Pharmacy Administration Conference and the Western Pharmacoeconomic Conference. Austin, TX. June 22-24, 2012. (Poster)
10. Doshi P, Payakachat N. Health disparities: Measuring health status and health-related quality of life among elderly population. The Biennial Southern Pharmacy Administration Conference and the Western Pharmacoeconomic Conference. Austin, TX. June 22-24, 2012. (Poster)
11. Hoesli TM, Dayer LE, Payakachat N. Barriers to medication adherence among patients who receive oral antineoplastic agents in an outpatient oncology clinic. The 46<sup>th</sup> ASHP Midyear Clinical Meeting & Exhibition. New Orleans, LA, December 4-8, 2011. (Poster)
12. Patel B, Battle M, Payakachat N, Ragland D. Barriers to contraception use. The 46<sup>th</sup> ASHP Midyear Clinical Meeting & Exhibition. New Orleans, LA, December 4-8, 2011. (Poster)
13. Castleberry A, Neil K, Payakachat N, Franks A. Self perceived teaching abilities before and after completion of postgraduate teaching certificate program. UAMS Student Research Day. Little Rock, AR. April 10, 2012. (Poster)
14. King A, Payakachat N, Said Q. Voluntary plan switching of non-disabled, Elderly Medicare Part D enrollees from 2006 to 2010. UAMS Student Research Day. Little Rock, AR. April 10, 2012. (Poster)
15. Jones GD, Payakachat N, Heldenbrand S. A 5-month evaluation of outcomes and usage of brand and generic tacrolimus in de novo liver and kidney transplant recipients. AAHP. Little Rock, AR, October 6, 2011. (1<sup>st</sup> place best poster)
16. Harrod S, Ragland D, Payakachat N, Pate A, The impact of pharmacist counseling on patient knowledge of emergency contraception. UAMS Student Research Day, April 1, 2011. Little Rock, AR. (Poster)
17. Ottoson LM, Frank A, Payakachat N. Impact of pharmacist-provided education on participants' readiness to change behaviors that influence blood pressure. UAMS Student Research Day, April 1, 2011. Little Rock, AR. (Poster)
18. Pate AN, Payakachat N, Ragland. Impact of pharmacist counseling on patient knowledge of emergency contraception. 1<sup>st</sup> Annual UAMS College of Pharmacy Research Symposium, Little Rock, AR. April 8-9, 2010. (Poster)

#### **BOOK CHAPTERS:**

- Payakachat N. Murawski MM. Chapter 3: Measuring Health Status and Health-related Quality of Life Assessment. In: Understanding Health Outcomes and Pharmacoeconomics. MacKinnon GE, ed. (2011) Jones & Bartlett Learning.
- 1. Payakachat N. Bootstrapping, 2. Payakachat N. Model Validation, 3. Plans-Rubio P, Payakachat N. Hypothesis Testing. In: Reliability and Validity of Data Sources for Outcomes Research & Disease and Health Management Programs, Section 5: Statistical Adjustments/Approaches. Esposito D, ed. (2012) International Society for Pharmacoeconomics and Outcomes Research: Lawrenceville, NJ.

- Payakachat N. Therapeutic Drug Monitoring of Carbamazepine. In: Chaiyakam A, Preechakul Y, eds. Therapeutic Drug Monitoring. Khon Kaen, Faculty of Pharmaceutical Sciences, 2000: 185-198. (Thai)
- Payakachat N. Therapeutic Drug Monitoring of Lithium. In: Chaiyakam A, Preechakul Y, eds. Therapeutic Drug Monitoring. Khon Kaen, Faculty of Pharmaceutical Sciences, 2000: 199-218. (Thai)
- Payakachat N. Clinical Approach in Vertigo for Community Pharmacist. In: Pornanong A, ed. Vertigo. Bangkok, Chulalongkorn University, 2002: 35-46. (Thai)

## **RESEARCH EXPERIENCE:**

### On-going: Funded

1. Arkansas Health Care Independence Program (“Private Option” and “Arkansas Work”) Evaluation for Section 1115 Demonstration Waiver, CMS-AR Medicaid, 10/01/14 – 9/30/22 (Thompson, PI), Role: Subcontract Co-I (with JM Tilford as the PI) to conduct cost-effectiveness analysis  
  
The State of Arkansas implemented a novel approach to expand coverage for individuals newly eligible for Medicaid under the Patient Protection and Affordable Care Act (PPACA). Through a Section 1115 demonstration waiver, the State utilized premium assistance to secure private health coverage offered on the newly formed individual health insurance marketplace to those non-elderly adults who have incomes at or below 138 percent of the federal poverty level. This approach is commonly referred to as the “Private Option.” The objective of this evaluation will determine if the HCIP waiver improved access, improved care and outcomes, reduced churn, and was cost effective compared to traditional Medicaid expansion.
2. Evaluation of the ANGELS Program, UAMS Center of Distance Health (Arkansas Department of Health and Human Services, 7356209, Lowery, PI), 04/01/2017 – 06/30/2018, Role: Program evaluator  
  
The objective of this study is to evaluate the program effectiveness including clinical outcomes and customer satisfaction among Medicaid recipients and providers in Arkansas.
3. Enhancing the Arkansas Birthing Project Using Technology, Robert Wood Johnson Foundation, 02/15/2017 – 08/14/2019 (Rhodes, PI), \$125,000. Role: Co-I.  
  
The collaborative partnership between the Arkansas Birthing Project and the researchers at UAMS will benefit and enhance the existing project by utilizing technology and online education to assist the Sister Friends in providing standardized mentoring and education to their Little Sisters. The objective of the study is to evaluate effectiveness of technology-based education with a community-based pregnancy mentoring program.
4. Clinical Characteristics & Health Status of Potential Medicinal Cannabis Users in Arkansas and Perceptions of Benefits/Harms: A Prospective 1-year Study, 7-Hybrid Cultivation, 09/01/2017 – 08/30/2018 (Payakachat, PI), \$50,000  
  
This project aims to survey potential medical cannabis users in Arkansas to capture clinical characteristics, health status, perception of benefits and harm in a community sample.

### Completed: Funded

1. Appointment-Based Model satisfaction among patients and pharmacists (with GM Curran), National Community Pharmacists Association, 05/01/2015 – 03/31/2016, \$88,000 Role: Co-PI  
  
The project aims to understand patient and pharmacist satisfaction with the Appointment Based Model on medication adherence using medication synchronization technology.
2. Mapping clinical outcomes to preference-based measures from the NDAR, 1R03MH102495-01 (01/15/2014 – 01/30/2016) \$149,000, Role: PI

The goal of this study is to predict health utility gains from different interventions using the shared data in NDAR and develop initial decision-analytic models to describe the value of potential interventions and to support the dissemination and implementation of effective interventions for children with ASDs and their families.

3. Effectiveness of early intensive behavioral intervention services for children with ASDs, Autism Speaks (ATN-AIR-14-06), 10/01/2014 – 09/30/2015, \$28,820 Role: PI

This proposal focuses on evaluating the clinical comparative effectiveness of early intensive behavioral intervention (EIBI) services among children with ASDs in real world settings using the registry from Autism Speaks Autism Treatment Network (AS ATN).

4. Measuring quality adjusted life years in children with autism spectrum disorder (with JM Tilford and KA Kuhlthau), R01-NIH/MH089466-01 (2009 – 2011) \$889,603, Role: Co-I

This study evaluated alternative instruments for measuring quality adjusted life years (QALYS) in children with autism spectrum disorders (ASDs). It is unknown which generic instrument can measure QALYS for children with ASDs. Caregiver effects among parent caregivers were also observed. Incorporating caregiver effects in cost-effectiveness analysis is crucial. Methods to incorporate these effects were explored.

5. Intrinsic and extrinsic factors affecting pharmacists' job and career satisfaction, 2010 MRE grant (2010), \$14,313, Role: PI (no salary support)

The objectives of this study were: 1) to investigate if preceptorship increases job and career satisfaction; 2) to explore what factors such as age, gender, practice settings, employment status, stress, challenging work, and workload that are associated with job and career satisfaction among pharmacists.

6. Predicting utility values in low vision: Estimation from the NEI-VFQ 25, Contract research funding with Pfizer, Inc. (2007 – 2008), \$56,000, Role: Co-I

This study explored three different statistical approaches (OLS, Tobit, and CLAD) for mapping between the NEIVFQ 25 domains and the EQ-5D utility scores in patients with AMD. An algorithm that can produce utility estimates from the NEI-VFQ 25 that are reasonably consistent with the EQ-5D might be a useful tool for health outcomes researchers.

## TEACHING AND EDUCATIONAL ACTIVITIES:

### A. Graduate Courses:

1. **PHSC5393: Patient-Reported Outcomes Measurements** (3 credit hours), Role: Sole Instructor

This course will provide graduate students a solid grounding in patient-reported outcomes (PRO), health, and health-related quality of life (HRQL) concepts and how to measure them through lecture, reading assignments, homework, term paper, and discussion. Materials will cover PRO instrument development, including psychometric and utility theory. The course will provide students hand-on experience with psychometric testing on PRO data using the SAS<sup>®</sup>. Students will be able to select appropriate PRO instruments for clinical studies to comply with governmental regulatory guidance. The course will offer graduate students opportunities to assess and evaluate literature involved with HRQL information and PRO instruments in specific disease/conditions as well. Group discussion, individual presentation, homework, and a term paper will be used as tools to enhance student understanding.

2. **PHSC 5323: Foundations of Pharmaceutical Evaluation and Policy Research Methods** (3 credit hours): Role: Course coordinator and Instructor (14 contact hours)

The purpose of this course is to provide graduate students with the introductory skills to become a researcher in pharmaceutical evaluation and policy. The student will be exposed to a wide range of topics including sources for funding research, identifying research problems and writing study objectives, measurement, and study design issues common to research in pharmaceutical evaluation and policy. Dr. Payakachat teaches the following topics: 1) Library resources and

referencing software, 2) Literature synthesis, 3) Defining different levels of measurement and reliability, 4) Pharmaceutical marketing research studies using survey and focus group research, and 5) Sampling methods.

#### B. Pharm.D. Courses:

1. **PHPR3412: U.S. Health Care System for Pharmacists** (2 credit hours), Role: Instructor (4 contact hours)

The objective of this course is to provide pharmacy students with a basic understanding of the U.S. health care system. It addresses major problems and challenges facing the U.S. health care sector with special emphasis on its interrelationship with the practice of pharmacy. The course describes the overall system as well as its components and raises important issues related to health care delivery and financing. Dr. Payakachat delivers three topics including 1) Measurement of Health, 2) Health Literacy and 3) Medication Adherence and 4) Health Behavior Models using team-based learning approach in two 2-hour sessions.

2. **PHPH5643: Evidence-based Medicine, Biostatistics, and Pharmacoeconomics** (3 credit hours), Role: Instructor (6 contact hours)

This course will teach the student to formulate a focused clinical question, to improve the student's literature critical appraisal skills, to determine the appropriateness of various biostatistical analyses, to interpret research outcomes, and to apply pharmacoeconomic techniques in order to inform drug product selections. Dr. Payakachat's lectures include 1) Introduction to Pharmacoeconomic; 2) Pharmacoeconomic Standards, Modeling, Data Sources, and Uncertainty; 3) Quality of Life Measures; and 4) Comparative Effectiveness Research and Patient-centeredness Outcome Research.

#### C. Teaching Lectures in University Settings:

1. Asthma treatment outcome measures from patient perspectives (1.5 hours), Continuing Education Program, December 13, 2009. Recipients: AR Pharmacists (170 participants)
2. Interpreting Cost Effectiveness Modeling Studies (1.5 hours), Continuing Education Program, October 2008. Recipients: Consulting pharmacists (80 participants)

#### D. Course Coordinator:

1. PHPR3733: Pharmacy Management (3 credit hours) Spring 2012, 2013
2. PHSC5191: Pharmaceutical Evaluation and Policy Graduate Seminar (1 hour credit) Spring 2009, Fall 2009, Fall 2011, Spring 2013, Spring 2015, Spring 2016

#### D. Graduate Committee:

1. Andrew King, MS graduated 2012. Role: Thesis committee member.  
Thesis topic: The incidence, determinants, and economic outcomes of voluntary prescription drug plan switching in a national sample of elderly, non-disabled, Medicare Part D enrollees.
2. Pratik Doshi, MS graduated July 2013. Role: Thesis committee chair.  
Thesis topic: Autism-related state policies, racial disparity and outcome changes among children with autism from 2005 to 2010.
3. Paul Anderson, expected MS graduation July 2015. Role: Thesis committee member.  
Thesis topic: Is a smartphone application effective as an oral medication aid.
4. Sarah Norman Ashby, Withdrew from the program September 2014. Role: Major advisor.
5. Naleen Raj Bhandari, PhD students, expected PhD graduation July 2019. Role: Major advisor.  
Dissertation topic: Quality of life in cancer patients.



#### **INVITED WORKSHOP:**

- **Pharmacoeconomics and Humanistic outcomes Measures.**

A part of an improvement project for preceptors of pharmacy students in the 6-year pharmacy curriculum: Phase I – Measurements of Medication Therapy Outcomes. Funded by the Office of the Higher Education Commission 2011, Faculty of Pharmacy, Silpakorn University, and Pramongkut Hospital. June 6-17, 2011. Bangkok, Thailand.

1. One-week workshop on Pharmacoeconomics and Humanistic outcomes Measures (35 contact hours)

*Role:* Sole instructor for didactic teaching. Led small group discussion with three faculty members from Silpakorn university Faculty of Pharmacy, Thailand

*Contents:* Seven modules were created as follows:

- a. Develop health economic research questions from routine work
- b. Principles of health economic evaluation research
- c. Applications of Health economic evaluation research in routine work
- d. Cost analysis
- e. Interpreting clinical outcomes: Systematic review and meta-analysis
- f. Interpreting patient-reported outcomes
- g. Developing economic models for value-based decision-making in healthcare

*Participants:* 24 pharmacists, 4 physicians, and 2 nurses

2. Two-day meeting on Disease management: Concept, measurement, and applications (14 contact hours)

*Role:* Sole instructor

*Participants:* 150 healthcare professionals

3. Two-day research and educational sessions with faculty (Silparkorn University Faculty of Pharmacy) and PharmD students (14 contact hours)

*Activities:* Shared research and teaching experience in the US with the dean, administrative staff, and faculty (20 participants) and students (~ 200 participants)

#### **SERVICE TO PROFESSIONAL ORGANIZATIONS:**

- Reviewer in the Service delivery/Systems of care, The International Meeting for Autism Research, May 13-16, 2015, Salt Lake City, Utah, USA
- Reviewer, the 2014 ISOQOL Annual meeting, October 15-18, 2014, Dublin, Germany
- Committee, the Research Abstract Review Committee (PRO) for the ISPOR 19<sup>th</sup> Annual International Meeting, May 31-June 4, 2014, Montreal, QC, Canada
- Committee, the Research Abstract Review Committee (PRO) for the ISPOR 16<sup>th</sup> Annual European Congress, November 2-6, 2013 at the Convention Centre Dublin, Dublin, Ireland
- Reviewer, the 2013 ISOQOL Annual meeting, October 9-12, 2013, Miami, FL
- Committee, the Research Abstract Review Committee (PRO) for the ISPOR 18<sup>th</sup> Annual International Meeting, May 18-22, 2013, New Orleans, LA, USA
- Committee, the Research Abstract Review Committee (PRO) for the ISPOR 15<sup>th</sup> Annual European Congress, November 3-7, 2011 at the ICC Berlin, Berlin, Germany
- Committee, the Research Abstract Review Committee (PRO) for the ISPOR 17<sup>th</sup> Annual International Meeting, June 2-6, 2012, Washington, DC, USA
- Committee, the Research Abstract Review Committee (PRO) for the ISPOR 14<sup>th</sup> Annual European Congress, November 5-8, 2011 at the Hotel Auditorium Madrid, Madrid, Spain
- Committee, the Research Abstract Review Committee (PRO) for the ISPOR 16<sup>th</sup> Annual International Meeting, May 21-25, 2011, Baltimore, MD, USA

- Committee, the Research Abstract Review Committee (PRO) for the ISPOR 15<sup>th</sup> Annual International Meeting, May 15-19, 2010, Atlanta, GA, USA
- Committee, the Research Abstract Review Committee for the ISPOR 12<sup>th</sup> Annual European Congress, October 24-27, 2009 at the Le Palais des Congrès de Paris in Paris, France
- Committee, the Research Abstract Review Committee (PRO) for the ISPOR 2<sup>nd</sup> Latin America Conference, September 10-12, 2009 at the Sheraton Rio Hotel in Rio de Janeiro, Brazil
- Committee, the Research Abstract Review Committee (Patient Reported Outcomes Studies: PRO) for the ISPOR 14<sup>th</sup> Annual International Meeting, May 16 – 20, 2009, Orlando, FL

#### **SERVICE TO UAMS AND UAMS COLLEGE OF PHARMACY:**

- Chair (August 2014 – present), Assessment Committee, UAMS College of Pharmacy (September 2011 – present)
- Student Research Committee, UAMS College of Pharmacy (July 2014 – June 2017)
- College of Pharmacy Graduate Program Committee (PEP track), (January 2013 – present)
- Committee on Professional Advisory Board, UAMS 12<sup>th</sup> Street Health and Wellness Center (August 2012 – present)
- Graduate faculty member, UAMS Graduate Council (September 2008 – present)
- Admission Committee, UAMS College of Pharmacy (July 2014 – June 2016)
- Chair, Ad Hoc Committee on Academic Progression, UAMS College of Pharmacy (August 2013 – May 2014)

*A specific input is to identify factors related to delayed academic progression using a retrospective student database.*

- Ad Hoc Committee on Cultural Competency, UAMS College of Pharmacy (February 2011 – May 2014)

*A specific input is to identify pharmacy students who could be at risk of failing NAPLEX using a retrospective student database.*

- Ad Hoc Committee on the UAMS College of Pharmacy Interprofessional Community Center (November 2011 – July 2012)

*A specific input is to help planning for outcome monitoring for the 12<sup>th</sup> UAMS Community Health Center which was opened in November 2012.*

- Pharmaceutical Evaluation and Policy Graduate Admissions Committee, UAMS College of Pharmacy (2011 – 2012)
- Scholastic Standing Committee, UAMS College of Pharmacy (September 2009 – August 2011)

#### **SERVICES TO ACADEMIC/PROFESSIONAL, JOURNALS AND GRANT REVIEW**

- Associate Editor & Editorial Board – Quality of Life Research (December 2016 – present)
- Autism Treatment Network/AIR-P Scientific Review Committee (January 2015 – present)
- Faculty Advisor for ISPOR UAMS Chapter (September 2011 – present)
- Journal reviewers
  - Canadian Academy of Child and Adolescent Psychiatry
  - Currents in Pharmacy Teaching & Learning
  - European Journal of Health Economics
  - Health and Quality of Life Outcomes
  - Investigative Ophthalmology & Visual Science

- Journal of Abnormal Child Psychology
  - Journal of Affective Disorders
  - Journal of American Pharmaceutical Education
  - Journal of Autism and Developmental Disorders
  - Journal of Cataract and Refractive Surgery
  - Journal of Managed Care Pharmacy
  - Journal of Medical Economics
  - Journal of Patient-Reported Outcomes
  - Journal of Pharmacy Practice
  - Lancet Psychiatry
  - Quality of Life Research
    - \* Top reviewers 2015, 2016, 2017
  - Pharmacy
  - The Patient
  - Value in Health
- Grant reviewers
    - UAMS Translational Research Institute, KL2 Study Section review 2017
    - Medical Research Council, UK (R01 research grant, Methodology Research Panel, June 2017)
    - NIH Scientific reviewer on a Special Emphasis Panel/Scientific Review Group: 2017/10 ZRG1 BBBP-J (56) R (R01)
      - Independent grant reviewer for Maternal and Child Health Bureau (R40, HRSA-17-013).
      - CTSA's Pilot Grant Program reviewer, 2017 cycle
      - Health Research Board, Ireland (2015 grant cycle)
      - Children's University Medical Group Fund (CUMG) Grant Program Review (2011, 2012)

**PROFESSIONAL ORGANIZATION MEMBERSHIPS:**

- Member, International Society for Quality of Life Research (ISOQOL) (2012 – present)
- Member, International Society for Pharmacoeconomics and Outcomes Research (ISPOR) (2004 – present)
- Member, International Society for Autism Research (INSAR) (2014 – 2015)
- Member, American Association of Colleges of Pharmacy (August 2008 – 2012)

**AWARDS & HONORS**

- 2015 & 2016 Top reviewers of Quality of Life Research journal
- 2014 UAMS Leadership Institute
- 2014 Jonathan J Wolfe and Donna M Wolfe Annual Endowed Faculty Excellence Award.
- 2012 AACP Walmart Scholars Program Mentor (Student: Sara E Norman)
- ISPOR Student Chapter Presidents Service Awards 2006 – 2007
- Research assistantship, School of Pharmacy and Pharmaceutical Sciences, Purdue University (2002, 2007 – 2008)
- Training Grant at University of Illinois at Chicago Hospital. Awarded by Faculty of Pharmaceutical Sciences, Khon Kaen University, Thailand (2001)
- Research Grant, Research and Developing Institute, Government Pharmaceutical Organization, Thailand (1994 – 1995)
- University Developing Commissions (UDC) Scholarship, Silpakorn University, Thailand (1993 – 1995), Full scholarship

**OTHER PROFESSIONAL EXPERIENCES:**

- Member, Thai Pharmacy Association, Thailand (1995 – present)
- President, Purdue University ISPOR Student Chapter (2006 – 2007)
- President-Elect, Purdue University ISPOR Student Chapter (2005 – 2006)
- Staff, Postgraduate Student Council, Department of Clinical Pharmacy, Faculty of Pharmaceutical Sciences, Khon Kaen University, Thailand (1998 – 2003)
- Member, North-Eastern Neuroscience Association of Thailand (2001 – 2003)
- Committee, North-Eastern Neuroscience Association of Thailand (2001 – 2003)
- Clinical Pharmacist, Neurology unit, Department of Medicine, Faculty of Medicine, Khon Kaen University, Thailand (2001 – 2002)
- Associate Head of Clinical Pharmacy Department, Faculty of Pharmaceutical Sciences, Khon Kaen University, Thailand (2000)
- Staff, Postgraduate Student Council, Faculty of Pharmacy, Silpakorn University, Thailand (1995 – 1997)

**RELEVANT SOFTWARE**

SAS®, STATA®, AMOS®

**LANGUAGES:** English, Thai (native)

**OTHER:** Foreign Pharmacy Graduate Equivalency Examination (FPGEE®) – Passed (2003)