

# Mark Bounthavong

PHARMACIST · PROFESSOR · HEALTH ECONOMIST · DATA PROGRAM MANAGER

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“A society can be Pareto optimal and still perfectly disgusting.” — Amartya Sen

## Education

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### University of Washington

PH.D. IN THE COMPARATIVE HEALTH OUTCOMES, POLICY, & ECONOMICS (CHOICE) INSTITUTE

- Dissertation: Program evaluation of academic detailing in the U.S. Department of Veterans Affairs
- Chair: Emily Beth Devine, Ph.D., Pharm.D., MBA

Seattle, WA

Sept. 2013 - July 2018

### Emory University

MPH IN ROLLINS SCHOOL OF PUBLIC HEALTH (APPLIED EPIDEMIOLOGY)

- Thesis: Multiple Imputation with Multivariate Models: An Evaluation of Two Case Studies
- Chair: Kevin M Sullivan, Ph.D., MPH, MHA

Atlanta, GA

Aug. 2011 - Dec. 2013

### Western University of Health Sciences

OUTCOMES RESEARCH FELLOWSHIP IN COLLEGE OF PHARMACY

- Advisors: Anandi V. Law, PhD, RPh and Mark P. Okamoto, PharmD

Pomona, CA

July 2005 - June 2007

### Jerry L. Pettis Veterans Affairs Healthcare System

POST-GRADUATE YEAR-1 PHARMACY PRACTICE RESIDENCY

- Director: Kenneth Wong, PharmD

Loma Linda, CA

July 2004 - June 2005

### Western University of Health Sciences

PHARM.D. IN COLLEGE OF PHARMACY

- Board Certified Pharmacist in California and Washington States

Pomona, CA

Sept. 2000 - May 2004

### University of California, Irvine

B.S. IN BIOLOGIC SCIENCES

Irvine, CA

Sept. 1994 - June 1999

## Skills

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**Programming** Excel VBA, ~~TeX~~, R, SAS, SPSS, Stata, T-SQL, WinBUGS

**Productivity** PowerBI, Photoshop CS, Camtasia

**Web** R-SHINY, Squarespace

## Employment History

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### UCSD Skaggs School of Pharmacy & Pharmaceutical Sciences

ASSOC PROF OF CLINICAL PHARMACY | CHAIR: LINDA AWDISHU, PHARM.D, MAS | LAWDISHU@HEALTH.UCSD.EDU | (858) 534-3919

- Chair courses for Applied Pharmacoeconomics and Study Design/Biostatistics
- Serve on the Assessment and Admissions Committees
- Conduct investigator-initiated research and mentor pharmacy students

San Diego, CA

Sept. 2020 - Present

### VA Health Economics Resource Center (HERC)

HEALTH ECONOMIST | DIRECTOR: TODD WAGNER, PHD | TWAGNER@STANFORD.EDU | (650) 493-5000 X22048

- Oversee and lead research projects at the VA
- Provide consultation on Pharmacy Benefits Management (PBM)-related projects
- Develop educational tools on pharmacoeconomics

Menlo Park, CA

Jan. 2019 - Present

## VA Pharmacy Benefits Management Academic Detailing Service

PROGRAM MANAGER | SUPERVISOR: MELISSA LD CHRISTOPHER, PHARM.D. | MELISSA.CHRISTOPHER@VA.GOV | (858) 337-8473

VA Central Office

Mar. 2016 - Present

- Evaluate the impact of academic detailing on outcomes
- Design and implement statistical models utilizing diverse datasets
- Develop educational tool and clinical dashboard

## Stanford University School of Medicine

RESEARCH AFFILIATE | SPONSOR: CIARAN PHIBBS, PHD | CPHIBBS@STANFORD.EDU | (650) 493-5000 X22813

Stanford, CA

Jan. 2019 - Aug. 2020

- Support research projects with economic analysis
- Supervise research team

## University of Washington

TEACHING ASSISTANT | SUPERVISOR: SEAN D. SULLIVAN, PH.D. | SDSULL@UW.EDU | (206) 685-8153

Seattle, WA

Jan. 2016 - Mar. 2016

- Wrote exam questions, graded exams, and assisted in course logistics

## University of Washington

RESEARCH ASSISTANT | SUPERVISOR: RYAN HANSEN, PHARM.D., PH.D. | RHANSET@UW.EDU | (206) 543-2402

Seattle, WA

Aug. 2015 - Aug. 2016

- Performed cost-minimization analysis, developed protocol, constructed model, performed sensitivity analysis
- Prepared poster and manuscript

## University of Washington

RESEARCH ASSISTANT | SUPERVISOR: JOSH J. CARLSON, PH.D. MPH | CARLSOJJ@UW.EDU | (206) 543-9649

Seattle, WA

Jan. 2014 - Aug. 2014

- Performed systematic review on Accountable Care Organizations (ACOs)
- Summarized findings in a report submitted to PCORI

## University of Washington

RESEARCH ASSISTANT | SUPERVISOR: DAVID VEENSTRA, PHARM.D., PH.D. | VEENSTRA@UW.EDU | (206) 221-6936

Seattle, WA

July 2013 - Dec. 2013

- Performed systematic review of drug-drug interactions between warfarin and amiodarone

## Veterans Affairs San Diego Healthcare System

PHARMCOECONOMICS CLINICAL SPECIALIST (INTERMITTENT) | SUPERVISOR: VICTORIA ALDRIDGE, PHARM.D. |

San Diego, CA

VICTORIA.ALDRIDGE@VA.GOV | (858) 552-8585

Aug. 2013 - Aug. 2015

- Performed statistical analysis on renal pharmacist intervention
- Finalized report for the medical executive committee

## Veterans Affairs San Diego Healthcare System

PHARMCOECONOMICS CLINICAL SPECIALIST (40 HR/WEEK) | SUPERVISOR: VICTORIA ALDRIDGE, PHARM.D. |

San Diego, CA

VICTORIA.ALDRIDGE@VA.GOV | (858) 552-8585

July 2007 - July 2013

- Maintained and enforced the VA National Formulary, participated in Pharmacy and Therapeutics Committee
- Identified and implemented cost-savings initiatives
- Performed health technology assessment to identify cost-effective strategies while maintaining high quality health care
- Developed, implemented, and staffed the pharmacist-run immunization clinic
- Developed and directed the PGY-1 Managed Care Pharmacy Residency

## Grants & Funding

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- **Co-Investigator.** SDR 21-089. (PI: Oliva). Study: Strategies to improve Utilization of Post-overdose Evidence-based Risk mitigation among Non-fatal Overdoses in VA (SUPER NOVA); Sponsor: VA HSR&D. (2022-2024). Total amount: \$1,195,926
- **Co-Investigator.** IIR 16-078. (PI: Oliva). Study: Effectiveness of a Rescue Medication in Preventing Opioid Overdose in Veterans; Sponsor: VA HSR&D. (12/2008-06/2022). Total amount: \$601,804
- **Co-Investigator.** IIR 18-026. (PI: Humphreys). Study: Promoting benzodiazepine cessation through an electronically-delivered patient self-management intervention; Sponsor: VA HSR&D. (09/2020 - 08/2024). Total amount: \$1,004,476
- **Co-Investigator.** IIR 16-145. (PI: Hagedorn). Study: Testing a Novel Strategy to Improve Implementation of Medication-Assisted Treatment for Veterans with Opioid Use Disorders in Low Performing Facilities; Sponsor: VA HSR&D. (07/2017 - 06/2021). Total amount: \$1,297,863
- **Co-Investigator.** IIR 17-139. (PI: Owens). Study: Cost Effectiveness of Interventions to Reduce Morbidity from Opioid Dependency; Sponsor: VA HSR&D. (04/2018 - 12/2021). Total amount: \$820,000

- **Co-Investigator.** QUE 15-284. (PI: Gifford, Midboe, McInnes). Study: Bridge the Care Continuum (Bridge) QUERI; Sponsor: VA HSR&D and QUERI. (10/2015 – 12/2020). Total amount: \$312,423 (Completed)
- **Principal Investigator.** Study: Evaluating the Impact of Academic Detailing on Naloxone Distribution; Sponsor: Elmer M. Plein Endowed Research Fund (01/2017 - 12/2017); Total amount: \$2,503 (Completed)
- **Principal Investigator.** Study: Evaluating the Impact of Academic Detailing on Naloxone Distribution; Sponsor: Rubenstein Endowment Fund (01/2017 - 12/2017); Total amount: \$5,000 (Completed)
- **Principal Investigator.** Study: Cost-effectiveness analysis of tumor necrosis factor in Rheumatoid Arthritis and Crohn's disease in a Veteran population; Sponsor: Extramural Grant from UCB, Inc. (09/2009 - 03/2015); IIS: 002296; VMRF Project: 08131; Protocol: H120150; Total amount: \$29,000 (Completed)
- **Principal Investigator.** Study: Clinical and economic outcomes of exenatide in a Veteran population; Sponsor: Extramural Grant from Amylin Pharmaceuticals (a subsidiary of Bristol-Myers Squibb) (01/2011 - 12/2014); VMRF Project: 8367; Protocol: H12011; Total Amount: \$75,000 (Completed)

## Peer-Reviewed Publications

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- Esmaili A, Hagedorn HJ, Garcia CC, Bangerter A, Gordon AJ, Gustavson AM, Kenny ME, Miller W, Ackland PE, Clothier BA, Noorbaloochi S, **Bounthavong M.** Healthcare expenditures associated with implementing an intensive external facilitation program to increase the prescribing of medications used for the treatment of opioid use disorder among Veterans. *Substance Use & Addiction Journal.* 2024 (in review).
- **Bounthavong M,** Smith JP, Guerra MB, Stout MP, Wells DL, Almeida AG, Morillo CM, Christopher MLD. Burnout assessment among pharmacist-academic detailers at the US Veterans Health Administration. *Journal of the American Pharmacists Association.* 2024 (in review).
- **Bounthavong M,** Yip WC. Association between county-level social vulnerability and deprivation with opioid dispensing rates in the United States: A cross-sectional study. *International Journal of Mental Health and Addiction.* 2024 (in review).
- **Bounthavong M,** Li M, Sepassi A, Stollemyer B, Spoutz P, Hart L, Suh K. Public, private, and out-of-pocket spending comparisons between opioid and non-opioid users and the impact of the Comprehensive Addiction Recovery Act, 2008-2020: A serial cross-sectional study. *Research in Social and Administrative Pharmacy.* 2024 (in review).
- **Bounthavong M,** Suh K, Sepassi A, Stollemyer B, Spoutz P, Hart L, Li M. Association of federal poverty level with healthcare expenditures among opioids users in the United States (2008-2019). *International Journal for Equity in Health.* 2023 (in review).
- Stottlemyer B, **Bounthavong M,** Suh K. Trends in expenditure and resource utilization associated with narcotic users in the United States between 2010-2020: A systematic literature review. *PharmacoEconomics.* (in review).
- Williams EC, Frost MC, **Bounthavong M,** Edmonds AT, Lau MK, Edelman EJ, Harvey MA, Christopher MLD. Implementation of Opioid Safety Efforts: Influence of Academic Detailing on Adverse Outcomes Among Patients in the Veterans Health Administration. *Substance Use & Addiction Journal.* 2024 (in review).
- **Bounthavong M.** Despair and Hope: Is the retail community pharmacy workforce in danger of becoming a monopsony labor market? *Journal of the American Pharmacists Association.* 2024 (Accepted).
- Miller W, Gordon A, Clothier B, Ackland P, **Bounthavong M,** Garcia C, Kenny M, Noorbaloochi S, Hagedorn H. Co-occurring Initiatives: The Effects of Academic Detailing on The Advancing Pharmacological Treatment for Opioid Use Disorder (ADaPT-ODU) Study. *Implement Res Pract.* 2023 Sep 14;4:26334895231199463. doi: 10.1177/26334895231199463. eCollection 2023 Jan-Dec.
- Garcia CC, **Bounthavong M,** Gordon AJ, Gustavson AM, Kenny ME, Miller W, Esmaili A, Acklang PE, Clothier BA, Bangerter A, Noorbaloochi S, Harris AHS, Hagedorn HJ. Costs of implementing a multi-site facilitation intervention to increase access to medication treatment for opioid use disorder. *Implement Sci Commun.* 2023 Aug 10;4(1):91. doi: 10.1186/s43058-023-00482-8.
- Joyce VR, Oliva EM, Garcia CC, Trafton J, Asch SM, Wagner TH, Humphres K, Owens DK, **Bounthavong M.** Healthcare costs and utilization before and after opioid overdose in United States veterans with opioid use disorder. *Addiction.* 2023 Nov;118(11):2203-2214. doi: 10.1111/add.16289. Epub 2023 Jul 19.

- Sepassi A, Saunders IM, **Bounthavong M**, Taplitz RA, Logan C, Watanabe JH. Effectiveness of Letermovir for Cytomegalovirus Prophylaxis in Allo-geneic Hematopoietic Stem Cell Transplant Recipients: A Global Systematic Review. *J Am Pharm Assoc* (2003). 2023 May 17;S1544-3191(23)00156-5. doi: 10.1016/j.japh.2023.05.015. Epub ahead of print. PMID: 37207713.
- Alabbas S, Jiang R, Au A, Vu M, Moore V, Cunningham FE, Stroupe K, **Bounthavong M**, Glassman P, Good CB, Salone C, Aspinall SL. Comparison of hospitalized costs for the same adverse reaction with different medications. *Am J Health Syst Pharm*. 2023 Mar 30;zxad060. doi: 10.1093/ajhp/zxad060. Online ahead of print.
- Sepassi A, Garcia S, Lee SM, Tanjasiri S, **Bounthavong M**. Predicted Health Literacy Disparities Between Immigrant and US-Born Racial/Ethnic Minorities: A Nationwide Study. *J Gen Intern Med*. 2023 Feb 27. doi: 10.1007/s11606-023-08082-x. Online ahead of print.
- **Bounthavong M**, Christopher MLD, Veenstra DL, Basu A, Devine EB. Exploring providers' perception to naloxone education for opioid overdose after receiving academic detailing at the U.S. Department of Veterans Affairs. *J Pharm Pract*. 2023 Jun;36(3):514-522. doi: 10.1177/08971900211053282. Epub 2021 Nov 12.
- Sepassi A, Saunders IM, **Bounthavong M**, Taplitz RA, Logan C, Watanabe JH. Cost-Effectiveness of Letermovir for CMV Prophylaxis in Seropositive Post-Allogeneic Hematopoietic Stem Cell Transplant Patients in the United States. *Pharmacoecon Open*. 2023 May;7(3):393-404. doi: 10.1007/s41669-023-00398-y.
- Lu B, Wong M, Ha D, **Bounthavong M**, Banaei N, Deresinski S, Diep C. Piperacillin/Tazobactam Versus Cefepime or Carbapenems for Cefoxitin-Non-Susceptible *Enterobacter cloacae*, *Klebsiella aerogenes*, *Citrobacter freundii*, *Serratia marcescens*, and *Morganella morganii* Bacteremia in Immunocompromised Patients. *J Antimicrob Chemother*. 2023 Apr 3;78(4):1009-1014. doi: 10.1093/jac/dkad037.
- Gustavson A, Hagedorn HJ, Jesser LE, Kenny ME, Clothier BA, **Bounthavong M**, Ackland PE, Gordon AJ, Harris AHS. Healthcare Quality Measures in Implementation Studies: Advantages, Risks & Lessons Learned. *Health Res Policy Syst*. 2022 Dec 7;20(1):131. doi: 10.1186/s12961-022-00934-y.
- Fox E, Ha D, **Bounthavong M**, Meng L, Mui E, Holubar M, Deresinski S, Alegria W. Risk factors and outcomes associated with persistent vancomycin resistant enterococcal bacteremia. *BMC Infect Dis*. 2022 Nov 16;22(1):855. doi: 10.1186/s12879-022-07864-8.
- Cucciare M, Hagedorn H, **Bounthavong M**, Abraham T, Greene C, Han X, Kemp L, Marchant K, White P, Humphreys K. Promoting Benzodiazepine Cessation Through an Electronically-Delivered Patient Self-Management Intervention (EMPOWER-ED): Randomized Controlled Trial Protocol. *Contemp Clin Trials Commun*. 2022 Sep 5;29:100994. doi: 10.1016/j.conctc.2022.100994.
- Luli AJ, Morello CM, Lorentz SM, **Bounthavong M**, Brandl K, Hart LA. A Systematic Approach to Providing COVID-19 Vaccinations in the Community by Student Pharmacists. *Pharmacy*. 2022; 10(4):93. <https://doi.org/10.3390/pharmacy10040093>.
- Morello CM, Lai L, Chen C, Leung CM, Hirsch JD, **Bounthavong M**. Longitudinal Effects on Metabolic Biomarkers in Veterans 12 Months Following Discharge from Pharmacist-Provided Diabetes Care: A Retrospective Cohort Study. *Pharmacy (Basel)*. 2022 Jun 13;10(3):63. doi: 10.3390/pharmacy10030063.
- **Bounthavong M**, Shayegani R, Manning JM, Marin J, Spoutz P, Hoffman JD, Harvey MA, Himstreet JD, Kay CL, Freeman BA, Grana A, Christopher MLD. Comparison of virtual to in-person academic detailing on naloxone prescribing rates at three U.S. Veterans Health Administration regional networks. *Int J Med Inform*. 2022 May;161:104712. doi: 10.1016/j.ijmedinf.2022.104712. Epub 2022 Feb 7.
- Wei R, **Bounthavong M**, Hill MB. High versus low dose oxytocin in lean and obese women: A double-blinded randomized controlled trial. *Am J Obstet Gynecol MFM*. 2022 Jul;4(4):100627. doi: 10.1016/j.ajogmf.2022.100627. Online ahead of print.
- Aspinall SL, Vu M, Moore V, Jiang R, Au Anthony, **Bounthavong M**, Glassman PA. Estimating Costs of Adverse Drug Reactions Resulting in Hospitalization using a National, Voluntary Surveillance System. *JAMA Netw Open*. 2022 Feb 1;5(2):e2147909. doi: 10.1001/jamanetworkopen.2021.47909.
- Hagedorn HJ, Gustavson AM, Ackland PE, Bangerter A, **Bounthavong M**, Clothier B, Harris AHS, Kenny ME, Noorbaloochi S, Salameh HA, Gordon AJ. Advancing Pharmacological Treatments for Opioid Use Disorder (ADaPT-OD): an implementation trial in eight Veterans Health Administration facilities. *J Gen Intern Med*. 2022 Jan 3;1-9. doi: 10.1007/s11606-021-07274-7. Online ahead of print.
- Himstreet JE, Shayegani R, Spoutz P, Hoffman J, Midboe AM, Hillman A, Marin J, Chen A, Smith J, Manning J, Grana A, Gray C, Erhardt T, Garcia C, Freeman BA, Christopher MLD, **Bounthavong M**. Implementation of a pharmacy-led virtual academic detailing (e-Detailing) program at the U.S. Veterans Health Administration. *Am J Health Syst Pharm*. 2022 Jan 27;zxac024. doi: 10.1093/ajhp/zxac024. Online ahead of print.
- Sepassi A, **Bounthavong M**, Singh RF, Heyman M, Beizai K, Watanabe JH. Risk of negative health outcomes and high costs for people with diabetes and psychological distress in the United States. *Diabetes Spectr* 2022; ds210019. <https://doi.org/10.2337/ds21-0019>.

- Li M, **Bounthavong M**. Cancer history, insurance coverage, and the cost-related medication nonadherence in Medicare beneficiaries, 2013-2018. *Journal of Managed Care & Specialty Pharmacy*. 2021 Dec;27(12):1750-1756. doi: 10.18553/jmcp.2021.27.12.1750.
- Hirsch JD, Kong N, Nguyen KT, Cadiz CL, Zhou C, Bajorek SA, **Bounthavong M**, Morello CM. Patient-Reported medication adherence, patient satisfaction and glycemic control in a Pharmacist-Led Diabetes “Tune-Up” Clinic. *Int J Environ Res Public Health*. 2021;18(17):9242. Published 2021 Sep 1. doi:10.3390/ijerph18179242
- **Bounthavong M**, Suh K, Li M, Spoutz P, Stottlemeyer B, Sepassi A. Trends in healthcare expenditures and resource utilization among a nationally representative population of opioid users in the United States: A serial cross-sectional study, 2008 to 2017. *Subst Abuse Treat Prev Policy*. 2021;16(1):80. Published 2021 Oct 20. doi:10.1186/s13011-021-00415-5
- Luli A, Awdishu L, Hirsch JD, Watanabe JH, **Bounthavong M**, Morello CM. Transferring key success factors from ambulatory care into the community pharmacy. *Pharmacy (Basel)*. 2021;9(3):116. Published 2021 Jun 23. doi:10.3390/pharmacy9030116
- Kazerooni R, Howard I, Keener A, **Bounthavong M**. Real world six-year national cost minimization analysis of incobotulinumtoxinA and onabotulinumtoxinA in the VA/DoD healthcare systems. *Clinicoecon Outcomes Res*. 2021 Jun 30;13:603-609. doi: 10.2147/CEOR.S320212. eCollection 2021.
- Eisman AB, Quanbeck A, **Bounthavong M**, Panattoni L, Glasgow RE. Implementation science issues in understanding, collecting, and using cost estimates: a multi-stakeholder perspective. *Implement Sci*. 2021;16(1):75. Published 2021 Aug 3. doi:10.1186/s13012-021-01143-x. [[Collection site](#)]
- Fairley M, Humphreys K, Joyce VR, **Bounthavong M**, Trafton J, Combs A, Oliva EM, Goldhaber-Fiebert JD, Asch SM, Brandeau ML, Owens DK. Cost-Effectiveness of treatments for opioid use disorder: A model-based analysis. *JAMA Psychiatry*. 2021 Mar 31;e210247. doi: 10.1001/jamapsychiatry.2021.0247. [[Press Release 1](#)] [[Press Release 2](#)]
- **Bounthavong M**, Lau MK, Kay CL, Wells DL, Popish SJ, Harvey MA, Himstreet JE, Grana A, Freeman BA, Morillo CM, Christopher MLD. Impact of implementing an academic detailing program on opioid-benzodiazepine co-prescribing trends at the U.S. Department of Veterans Affairs. *Pain Med*. 2021 Mar 22;pnaa475. doi: 10.1093/pm/pnaa475.
- **Bounthavong M**, Harvey MA, Wells DL, Himstreet JE, Lau MK, Kay CL, Popish SJ, Grana AG, Freeman BA, Morillo C, Mullins-Cunningham S, Christopher MLD. Impact of Academic Detailing on Opioid Prescribing at the Veterans Health Administration. *J Clin Anesth Pain Manag*. 2020;4(2):165-172. doi: 10.36959/377/349.
- **Bounthavong M**, Harvey MA, Kay CL, Lau MK, Wells DL, Himstreet JE, Popish SJ, Oliva EM, Christopher MLD. Comparison of naloxone prescribing patterns due to educational outreach conducted by full-time and part-time academic detailers at the U.S. Department of Veterans Affairs. *J Am Pharm Assoc*. 2020;60(4):639-646. doi:10.1016/j.japh.2019.11.010.
- **Bounthavong M**, Suh K, Christopher MLD, Veenstra DL, Basu A, Devine EB. Providers’ perceptions on opioid overdose education and naloxone prescribing behavior after implementation of a national academic detailing program: A qualitative assessment. *Res Social Adm Pharm*. 2020;16(8):1033-1040. doi:10.1016/j.sapharm.2019.10.015.
- Li M, **Bounthavong M** Medicare beneficiaries, especially unsubsidized minorities, struggle to pay for prescription drugs: results from Medicare Current Beneficiary Survey. *J Gen Intern Med*. 2020 Apr;35(4):1334-1336. doi: 10.1007/s11606-019-05204-2.
- Ragan A, **Bounthavong M**, Brittain K, Mirk A, Aikens GB. Academic detailing to reduce sedative-hypnotic prescribing to older veterans. *J Pharm Pract*. 2019 Aug 25;897190019870949. doi: 10.1177/0897190019870949.
- **Bounthavong M**, Devine EB, Christopher MLD, Harvey MA, Veenstra DL, Basu A. Implementation evaluation of academic detailing on naloxone prescribing trends at the United States Veterans Health Administration. *Health Serv Res*. 2019;54(5):1055-1064. doi:10.1111/1475-6773.13194.
- Lau MK, **Bounthavong M**, Kay CL, Harvey MA, Christopher MLD. Clinical Dashboard development and use for academic detailing in the U.S. Department of Veterans Affairs. *J Am Pharm Assoc*. 2019 Mar-Apr;59(2S):S96-S103.e3. doi: 10.1016/j.japh.2018.12.006.
- **Bounthavong M**, Lau MK, Popish SJ, Kay CL, Wells DL, Himstreet JE, Harvey MA, Christopher MLD. Impact of academic detailing on benzodiazepine use among veterans with posttraumatic stress disorder. *Substance Abuse*. 2019 Mar 14;1-9. doi: 10.1080/08897077.2019.1573777.
- Gale RC, Wu J, Erhardt T, **Bounthavong M**, Reardon CM, Damschroder LJ, Midboe AM. Comparison of Rapid vs In-Depth Qualitative Analytic Methods from a Process Evaluation of Academic Detailing in the Veterans Health Administration. *Implement Sci*. 2019 Feb 1;14(1):11. doi: 10.1186/s13012-019-0853-y.
- **Bounthavong M**, Butler J, Dolan CM, Dunn JD, Fisher KA, Oestreicher N, Pitt B, Hauptman PJ, Veenstra DL. A cost-effectiveness analysis of patiromer and spironolactone therapy in heart failure patients. *Pharmacoeconomics*. 2018 Dec;36(12):1463-1473. doi: 10.1007/s40273-018-0709-3. [[Press Release](#)]

- Mendes MAS, Smith JP, Marin J, Gray D, **Bounthavong M**, Lau MK, Miranda JL, Hauser P. A Direct-to-Consumer (DTC) educational quality improvement initiative to reduce benzodiazepine prescribing in older veterans. *Federal Practitioner*. 2018;35(9):36-43.
- Midboe AM, Wu J, Erhardt T, Carmichael J, **Bounthavong M**, Christopher MLD, Gale R. Academic Detailing to Improve Opioid Safety: Implementation Lessons from a Qualitative Evaluation. *Pain Medicine*. 2018;19(suppl 1):S46-S53. doi: 10.1093/pm/pny085.
- Patel S, Carmichael JM, Taylor JM, **Bounthavong M**, Higgins DT. Evaluating the Impact of a Clinical Decision Support Tool to Reduce Chronic Opioid Dose and Decrease Risk Classification in a Veteran Population. *Ann Pharmacother*. 2018 Apr;52(4):325-331. doi: 10.1177/1060028017739388
- Oliva EM, Christopher ML, Wells D, **Bounthavong M**, Harvey M, Himstreet J, Emmendorfer T, Valentino M, Franchi M, Goodman F, Trafton JA, Veterans Health Administration Opioid Overdose Education and Naloxone Distribution National Support and Development Workgroup. Opioid overdose education and naloxone distribution: Development of the Veterans Health Administration's national program. *J Am Pharm Assoc*. 2017 Mar - Apr;57(2S):S168-S179.e4. doi: 10.1016/j.japh.2017.01.022.
- **Bounthavong M**, Harvey M, Wells D, Popish S, Himstreet J, Oliva E, Kay C, Lau MK, Randeria P, Phillips A, Christopher MLD. Trends in naloxone prescriptions prescribed after implementation of a National Academic Detailing Service in the Veterans Health Administration: A preliminary analysis. *J Am Pharm Assoc*. 2017 Mar-Apr;57(2S):S68-S72. doi: 10.1016/j.japh.2016.11.003.
- Hirsch JD, **Bounthavong M**, Arjmand A, Ha DR, Cadiz CL, Zimmerman A, Ourth H, Morreale AP, Edleman SV, Morello CM. Estimated Cost Effectiveness and Risk Reduction Associated with a Pharmacist-Led Diabetes Intense Medical Management "Tune Up" Clinic. *J Manag Care Spec Pharm*. 2017 Mar;23(3):318-326. doi: 10.18553/jmcp.2017.23.3.318. [\[Press Release\]](#)
- Jelacic S, Craddick K, Nair BG, **Bounthavong M**, Yeung K, Kusulos D, Knutson JA, Somani S, Bowdle A. Relative Costs of Anesthesiologist-Prepared, Hospital Pharmacy-Prepared and Outsourced Anesthesia Drugs. *J Clin Anesth*. 2017 Feb;36:178-183. doi: 10.1016/j.jclinane.2016.10.015. Epub 2016 Dec 4.
- **Bounthavong M**, Pruitt L, Smolenski D, Gahm G, Bansal A, Hansen R. Economic evaluation of Home-Based TeleBehavioral Health compared to In-Person treatment delivery for depression. *Journal of Telemedicine and Telecare*. J Telemed Telecare. 2016 Nov 12. pii: 1357633X16678147.
- **Bounthavong M**, Li M, Watanabe JH. An evaluation of health care expenditures in Crohn's disease using the United States Medical Expenditure Panel Survey from 2003 to 2013. *Res Social Adm Pharm*. 2016 May 20. pii: S1551-7411(16)30093-6. doi: 10.1016/j.sapharm.2016.05.042.
- Wong SF, **Bounthavong M**, Nguyen C, Bechtoldt K, Lee E, Chen TC. Outcome Assessments and Cost Avoidance of a Comprehensive Oral Chemotherapy Management Clinic. *Journal of the National Comprehensive Cancer Network*. 2016;14(3):279-85.
- **Bounthavong M**, Watanabe JH, Sullivan K. Approach to addressing missing data for electronic medical records and pharmacy claims research. *Pharmacotherapy*. 2015 Apr;35(4):380-7. doi: 10.1002/phar.1569.
- Watanabe JH, Chen T, **Bounthavong M**, Hsu JC. Consideration of New Guidelines for Cholesterol Reduction: Comparison of Lipid Reduction Threshold Achievement by ACC/AHA Benefit Groups. *International Library of Diabetes and Metabolism*. 2015;1(1):13-16.
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- **Bounthavong M**, Suh K, Sepassi A, Stottlemeyer B, Spoutz P, Hart L, Li M. Does income matter? Impact of federal poverty level on healthcare expenditures among opioids users in the US (2008-2019). Poster presentation at the AcademyHealth Annual Research Meeting. Seattle, WA (June 2023).
- Yip WC, **Bounthavong M**. Is academic detailing on naloxone distribution for patients at risk for an opioid overdose good value for money? Application of a probabilistic sensitivity analysis in a cost-effectiveness framework. Poster presentation at the ISPOR 2023 Annual Meeting. Boston, MA (May 2023).
- **Bounthavong M**, Suh K, Sepassi A, Hart LA, Stottlemeyer B, Spoutz P, Li M. Public, private, and out-of-pocket spending comparisons between opioid and non-opioid users, 2008-2019. Poster presentation at the ISPOR 2023 Annual Meeting. Boston, MA (May 2023).
- Sepassi A, Li M, Suh K, Stottlemeyer B, **Bounthavong M**. Trends in medical expenditures and resource utilization among opioid, benzodiazepine, skeletal muscle relaxant, and gabapentin users: A pooled cross-sectional analysis from 2009-2018. Poster presentation at the ISPOR 2023 Annual Meeting. Boston, MA (May 2023). **Best Poster Finalist**
- Joyce VR, Oliva EM, Trafton J, Humphreys KH, Asch S, Wagner T, Owens D, **Bounthavong M**. Healthcare costs and utilization before and after opioid overdose in Veterans with opioid use disorder. Podium presentation at the 2023 HSR&D/QUERI National Meeting. Washington, DC (February 2023).
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- Sakharkar PR, Law AV, **Bounthavong M**. Validity and reliability of instruments used for measuring patient satisfaction with pharmaceutical care services. Presented at the ISPOR 3rd Latin America Conference. Mexico City, Mexico (September 8-10, 2011).
- Sau C, **Bounthavong M**, Tran JN, Wilson R. Cost-utility analysis of collagenase Clostridium histolyticum, limited fasciectomy, and percutaneous needle fasciotomy in Dupuytren's contracture. Presented at the ISPOR 16th Annual International Meeting. Baltimore, MD (May 20-25, 2011).
- Yi T, Tran JN, **Bounthavong M**. Evaluation of a safety initiative and outcomes for patients on statin-fibrate combination therapies in the Veterans Affairs population. Presented at the ISPOR 16th Annual International Meeting. Baltimore, MD (May 20-25, 2011).
- DeVille J, Bergman JJ, Equils O, Welch VL, Schrum K, **Bounthavong M**, Grogg S. Resource utilization in pediatric patients treated with linezolid or vancomycin for hospital-acquired pneumonia caused by resistant gram-positive bacteria. Presented at the 48th Annual Meeting of the Infectious Diseases Society of America (IDSA). Vancouver, British Columbia, Canada (October 21-24, 2010).
- Green V, **Bounthavong M**, Wong SF. Retrospective evaluation to examine efficacy and safety of half-dose pegfilgrastim in breast cancer patients receiving cytotoxic chemotherapy. Presented at the 2010 Breast Cancer Symposium, Washington, D.C. (October 1-3, 2010).
- Law AV, Jackevicius C, **Bounthavong M**. Monographs as an integrative application of Evidence Based-Medicine and Pharmacoeconomics in the PharmD Curriculum. Presented at the 2010 American Association of Colleges of Pharmacy (AACCP) Annual Meeting and Seminars in Seattle, WA (July 10-14, 2010).
- Hsu DI, Chung EP, **Bounthavong M**, Prabhu S, Murray W. Comparison of Selected Admission Criteria with First-year Pharmacy Academic and Objective Structured Clinical Exam Performance. Presented at the 2010 AACCP Annual Meeting and Seminar, Seattle, WA (July 10-14, 2010).
- Christopher MLD, **Bounthavong M**, Mendes MAS, Kazerooni R, Herbst K, Mavaian AA. Developing criteria for use for continuous glucose monitoring (CGM) sensors in a veteran population. Presented at the ISPOR 15th Annual International Meeting. Atlanta, GA (May 15-19, 2010).
- Nguyen CM, **Bounthavong M**, Mendes MAS, Christopher MLD, Morreale AP. Cost-utility analysis of tumor necrosis factor-alpha inhibitors for the treatment of rheumatoid arthritis using a Markov model. Presented at the ISPOR 15th Annual International Meeting. Atlanta, GA (May 15-19, 2010 - **Best poster finalist**).
- Morreale AP, Chen T, Mikusky E, Nguyen K, Nguyen S, Harris J, **Bounthavong M**. A Retrospective Look at the Effects of a Pharmacist-run Tobacco Cessation Clinic (Encore). Presented at the Veteran Centered Medical Home Summit Poster Session; Las Vegas, NV (April 2010).

- Morreale AP, Lai J, Chen T, **Bounthavong M**. Medication Management Programs at a VA Medical Facility: Effects on Blood Pressure, A Retrospective Analysis. (Encore). Presented at the Veteran Centered Medical Home Summit Poster Session; Las Vegas, NV (April 2010).
- Lai JH, Chen TC, **Bounthavong M**. Medication Management Programs at a VA medical facility: effects on blood pressure, a retrospective analysis. Presented at the 30th ACCP Annual Meeting, Anaheim, CA (October 2009).
- Truong J, Chen TC, **Bounthavong M**. Effectiveness of a Pharmacist-Run Disease State Management Clinic on Hypertension for the Veteran Population. Presented at the 30th ACCP Annual Meeting, Anaheim, CA (October 2009).
- **Bounthavong M**, Christopher M, Mendes M, Foster E, Johns S, Lim L, Rubin LM, Patel J, Stewart A. Measuring patient satisfaction in the Pharmacist Specialty Immunization Clinic (PSIC): a pharmacist-run immunization clinic at the Veterans Affairs San Diego Healthcare System. Presented at the APhA Annual Meeting & Exposition, in San Antonio, Texas (April 2009).
- Chen TC, Mikusky E, Nguyen KL, Nguyen S, Harris J, **Bounthavong M**. A retrospective look at the effects of a pharmacist-run tobacco cessation clinic. Presented at the 2008 Annual Meeting of the American College of Clinical Pharmacy (ACCP), Louisville, KY (October 2008).
- Christopher MLD, **Bounthavong M**, Johns ST, Lim L, Patel J, Rubin L, Stull M, Foster E. Improving access to immunizations through pharmacy immunization services. California Society of Health-System Pharmacists (CSHP) Seminar 2008 Annual Meeting at the Disneyland Hotel in Anaheim, California (October 2008).
- **Bounthavong M**, Hsu D, Okamoto MP. Decision analytic model evaluating the cost-effectiveness of linezolid versus vancomycin in methicillin-resistant Staphylococcus aureus (MRSA) complicated skin and soft tissue infection (cSSTI). Presented at the ISPOR 13th Annual Meeting, Toronto, Ontario, Canada (May 2008).
- Rubin LM, **Bounthavong M**, Christopher ML, Boggie DT, Plowman BK, Morreale AP. Appropriate utilization and cost-analysis of add-on ezetimibe lipid-lowering therapy at the Veterans Affairs San Diego Healthcare System (VASDHS). Presented at the ISPOR 13th Annual Meeting, Toronto, Ontario, Canada (May 2008).
- Patel JJ, Stull M, **Bounthavong M**, Christopher ML, Boggie DT, Plowman BK, Morreale AP. Cost-effective analysis of bevacizumab and ranibizumab in age-related macular degeneration. Presented at the ISPOR 13th Annual Meeting, Toronto, Ontario, Canada (May 2008).
- **Bounthavong M**, Rubin LM, Hsu D, Quist R, Law AV. Efficacy and safety of linezolid in methicillin-resistant Staphylococcus aureus (MRSA) complicated skin and soft tissue infections (cSSTI): a meta-analysis. Presented at the ACCP Spring Practice and Research Forum. Phoenix, AZ (April 2008).
- Rubin LM, **Bounthavong M**, Christopher MD, Plowman B, Morreale A, Boggie D. Appropriate utilization of add-on ezetimibe lipid-lowering therapy at the Veterans Affairs San Diego Healthcare System. Presented at the ACCP Spring Practice and Research Forum. Phoenix, AZ (April 2008).
- Law AV, **Bounthavong M**. Development and validation of the Patient Satisfaction with Pharmacist Services Questionnaire (PSPSQ). Presented at the APhA Annual Meeting & Exposition, San Diego, CA (March 2008).
- **Bounthavong M**, Okamoto MP, Quist R, Murray W, Prabhu S. Identifying predictors of academic success in a doctor of pharmacy degree program. Presented at the AACP Annual Meeting, Orlando, FL (2007).
- **Bounthavong M**, Law AV. Development and validation of the health-related quality-of-life (HRQL) component of the hybrid instrument - IMPACT (Impact of Pharmacist Activities and Care on Treatment Outcomes). Presented at the 12th Annual International Meeting of the ISPOR at Arlington, VA (2007).
- **Bounthavong M**, Okamoto MP, Hsu D. Evaluation of the cost-effectiveness of vancomycin and linezolid in methicillin-resistant Staphylococcus aureus (MRSA) skin and soft tissue infection using a decision-analysis (DA) model. Presented at the ACCP, Memphis, TN (2007).
- **Bounthavong M**, Law AV. What's more important to patients with diabetes, hypertension, and/or hyperlipidemia: identifying quality-of-life domains for a hybrid instrument. Presented at the APhA Annual Meeting and Exposition in Atlanta, GA (2007).
- **Bounthavong M**, Law AV. Development of an instrument to measure the impact of pharmacist activities and care on treatment outcomes (IMPACT) questionnaire: Phase I: Presented at AACP Annual Meeting in San Diego, CA (2006).
- **Bounthavong M**, Okamoto MP. Decision analysis model evaluating cost-effectiveness of risperidone, olanzapine, and haloperidol in schizophrenia: Presented at the ACCP Spring Research Forum in Monterey, CA (2006).
- **Bounthavong M**, Wong K, Kawahara B. Evaluating adherence and effects on outcomes for patients hospitalized with community acquired pneumonia according to the Infectious Disease Society Association (IDSA) guideline: Presented at Asilomar in the Western States Conference for Pharmacy Residents (2005).
- Walt JG, **Bounthavong M**, Ravelo A. Comparing treatment costs associated with the use of bromocriptine-purite 0.15% brimonidine benzalkonium chloride 0.2% in glaucoma: Presented at the 16th Annual AMCP Poster Presentation in San Francisco (2004).

# Leadership, Professional Membership, and Service

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## LEADERSHIP

<b>Member</b> , HEOR Workforce Diversity Workgroup, International Society for Pharmacoeconomics and Outcomes Research (ISPOR)	2022 - present
<b>Vice-Chair</b> , Assessment Committee, UCSD Skaggs School of Pharmacy & Pharmaceutical Sciences	2021 - present
<b>Chair</b> , VA PBM Program Evaluations-Research Selection (PERS) Workgroup	2020 - present
<b>Chair</b> , New Professions Steering Committee, International Society for Pharmacoeconomics and Outcomes Research (ISPOR)	2021 - 2023
<b>President</b> , ISPOR Student Chapter, University of Washington	2015 to 2016
<b>Vice-President</b> , ISPOR Student Chapter, University of Washington	2014 to 2015

## PROFESSIONAL MEMBERSHIP

<b>Member</b> , American Society of Health Economists	2017 to Present
<b>Member</b> , AcademyHealth	2013 to Present
<b>Member</b> , International Society for Pharmacoeconomics and Outcomes Research (ISPOR) [Member ID: 10695]	2007 to Present
<b>Member</b> , Society for Medical Decision Making [Member ID: 2360770]	2010 to 2013, 2021 to present
<b>Member</b> , American Society of Health-System Pharmacists [Member ID: 07347816]	2017 to 2018
<b>Student Member</b> , Academy of Managed Care Pharmacy [Member ID: 66368]	2016 to 2018
<b>Student Member</b> , Society for Medical Decision Making	2013 to 2018
<b>Associate Member</b> , American College of Clinical Pharmacists (ACCP)	2006 to 2012

## SERVICE

<b>Reviewer</b> , Research Review Committee for the AcademyHealth Annual Research Meeting	June 29-July 2, 2024
<b>Reviewer</b> , Research Review Committee for the 2024 ISPOR Annual International Meeting	May 5-8, 2024
<b>Member, Editorial Advisory Board</b> , Journal of Pharmaceutical Health Services Research	2023 - present
<b>Member</b> , Awards Committee, American Association of Colleges of Pharmacy	2023 - present
<b>Judge</b> , Best Student Poster, AcademyHealth Annual Research Meeting	June 24-27, 2023
<b>Reviewer</b> , Research Review Committee for the AcademyHealth Annual Research Meeting	June 24-27, 2023
<b>Reviewer</b> , Research Review Committee for the 2023 ISPOR Annual International Meeting	May 7-10, 2023
<b>Reviewer</b> , Research Review Committee for the 2022 ISPOR Annual International Meeting	May 15-18, 2022
<b>Member</b> , Awards Committee, Society for Medication Decision Making	2021 - present
<b>Member, Editorial Advisory Board</b> , Journal of the American Pharmacists Association	2021 - present
<b>Faculty Advisor</b> , AMCP Student Chapter, UCSD Skaggs School of Pharmacy & Pharmaceutical Sciences	2020 - present
<b>Member</b> , Assessment Committee, UCSD Skaggs School of Pharmacy & Pharmaceutical Sciences	2020 - present
<b>Associate Editor</b> , Substance Use & Addiction Journal	2020 - present
<b>Member</b> , Residency Task Force, UCSD Skaggs School of Pharmacy & Pharmaceutical Sciences	2020 - 2023
<b>Member</b> , ISPOR New Professions Steering Committee	2019 - 2023
<b>Reviewer</b> , Research Review Committee for the 19th ISPOR Annual International Meeting	May 17-20, 2021
<b>Student Member</b> , PORPP PhD Curriculum Committee	2016-2017
<b>Student Member</b> , PORPP PhD Applicant Search Committee	2015-2016
<b>Organizer</b> , PORPP Department Retreat Planning Committee	2014-2015
<b>Reviewer</b> , Establishing and Reporting Evidence of the Content Validity of Newly Developed Patient-Reported Outcomes (PRO) Instruments for Medical Product Evaluation: Good Research Practices	2013
<b>Reviewer</b> , Research Review Committee for the ISPOR 18th Annual International Meeting	May 18-22, 2012
<b>Reviewer</b> , Research Review Committee for the 33rd Annual Meeting of the Society for Medical Decision Making	Oct. 22-26, 2011
<b>Reviewer</b> , Research Review Committee for the ISPOR 17th Annual International Meeting	June 2-6, 2012
<b>Reviewer</b> , Research Review Committee for the ISPOR 16th Annual International Meeting	May 20-25, 2011
<b>Reviewer</b> , Research Review Committee for the ISPOR 15th Annual International Meeting	May 16-20, 2010
<b>Reviewer</b> , Research Review Committee for the ISPOR 14th Annual International Meeting	May 16-20, 2009

## Honors & Awards

<b>Awardee</b> , Distinguished Service Award - New Professionals Steering Committee Chair, ISPOR-The Professional Society for Health Economics and Outcomes Research	2023
<b>Awardee</b> , Special Recognition Award for Service-Learning IPPEs, UCSD Skaggs School of Pharmacy & Pharmaceutical Sciences	2023
<b>Awardee</b> , University of Washington School of Pharmacy's 2022 Distinguished Alumnus Award for Excellence in Early Career Achievement	2023
<b>Outstanding Reviewer</b> , Journal of the American Pharmacists Association	2023
<b>Finalist</b> , Innovation in Teaching Award, American Association of Colleges of Pharmacy (AAPC)	2021
<b>Awardee</b> , Pharmacy Class (Year 1) Teacher of the Year Award, UCSD Skaggs School of Pharmacy & Pharmaceutical Sciences	2021
<b>Nominated</b> , Husky 100, University of Washington	2018
<b>Finalist</b> , Graduate School "Scholar Citizen" Medal Award, University of Washington	2018
<b>Best Student Paper Award</b> , ("National implementation of academic detailing service on naloxone prescribing trends at the United States Department of Veterans Affairs: A retrospective cohort study"), Vancouver Health Economics Methodology Meeting	2018
<b>Awardee</b> , Veterans Health Administration Under Secretary of Health Pharmacy Benefits Management Innovation Award, Department of Veterans Affairs	2018
<b>Best Practice Award</b> , ("Impact of a Non-profit National Academic Detailing Service on the Opioid Safety Initiative and the Opioid Overdose Education and Naloxone Distribution Program"), American Society of Health-System Pharmacists (ASHP)	2017
<b>Awardee</b> , Graduate Student Leadership Award, University of Washington	2017
<b>Awardee</b> , Graduate School Fund for Excellence and Innovation, University of Washington	2017
<b>Nominated</b> , Husky 100, University of Washington	2017
<b>Finalist</b> , Lindau Nobel Laureate Meetings/Foundation Lindau Nobel Laureate Meetings	2017
<b>Alumni Achievement Award</b> , 20th Anniversary Gala Celebration. College of Pharmacy, Western University of Health Sciences	2016
<b>Awardee</b> , Graduate School Fund for Excellence and Innovation Graduate Student Travel Award. University of Washington, School of Pharmacy	2015
<b>Best Podium (tied)</b> , "A cost-utility analysis of biologics for moderate-to-severe Crohn's disease: Evidence synthesis using a Bayesian network analysis." Western Pharmacoeconomics and Outcomes Research Conference, Denver, CO (March 5-6, 2016)	2015
<b>Best Paper (tied)</b> , PORPP Prize for best paper (tied), "A cost-utility analysis of biologics for moderate-to-severe Crohn's disease: Evidence synthesis using a Bayesian network analysis." University of Washington, Pharmaceutical Outcomes Research and Policy Program	2015
<b>Awardee</b> , Reducing Barriers for the Ambitious Fund, established by Dr. Dana Hurley. University of Washington, School of Pharmacy	2015
<b>AHRQ T32 Fellowship</b> , Agency for Healthcare Research and Quality T32 PhD Student training grant #T32HS013853	2013-2015
<b>Outstanding Practicum Experience Award</b> , Rollins School of Public Health, Emory University: "Smoking Cessation in a Women's Health Clinic at the Department of Veterans Affairs"	2013
<b>Top 10 Cited Paper 2010 Award</b> , Current Medical Research and Opinion (CMRO): "Efficacy and safety of linezolid in methicillin-resistant Staphylococcus aureus (MRSA) complicated skin and soft tissue infection (cSSTI): a meta-analysis."	2011
<b>Literature Award</b> , Innovation in Pharmacy Practice, ASHP: "Implementing a comprehensive, 24-hour emergency department pharmacy program."	2010
<b>Pharmacy Innovations Award</b> , U.S. Under Secretary for Health PBM Innovations Award	2009
<b>Distinguish Service Award</b> , Thomas J. Long School of Pharmacy and Health Sciences, University of the Pacific	2009
<b>Best Practice Poster Award</b> , ("Implementing a comprehensive, 24-hour emergency department pharmacy program"), American Society of Health-System Pharmacy (ASHP)	2008

## License and Certification

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**California State Licensed Pharmacist (since 2004)**

*RPH 55969*

*Expires: 05/31/2024*

**Washington State Licensed Pharmacist (since 2015)**

*PH60419006*

*Expires 05/11/2024*

**Pharmacist-Based Immunization Delivery: Certificate for Pharmacists**

*CPN#202-0011*

**National Provider Identifier**

*1720272578*