

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

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

Programming Excel VBA, \LaTeX , R, SAS, SPSS, Stata, T-SQL, WinBUGS

Productivity PowerBI, Photoshop CS, Camtasia

Web R-SHINY, Squarespace

Employment History

UCSD Skaggs School of Pharmacy & Pharmaceutical Sciences

ASSOC PROF OF CLINICAL PHARMACY | CHAIR: LINDA AWDISHU, PHARM.D., MAS | LAWWDISHU@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

Sep. 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

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

VA Central Office

Mar. 2016 - Present

Stanford University School of Medicine

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

- Support research projects with economic analysis
- Supervise research team

Stanford, CA

Jan. 2019 - Aug. 2020

University of Washington

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

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

Seattle, WA

Jan. 2016 - Mar. 2016

University of Washington

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

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

Seattle, WA

Aug. 2015 - Aug. 2016

University of Washington

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

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

Seattle, WA

Jan. 2014 - Aug. 2014

University of Washington

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

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

Seattle, WA

July 2013 - Dec. 2013

Veterans Affairs San Diego Healthcare System

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

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

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

San Diego, CA

Aug. 2013 - Aug. 2015

Veterans Affairs San Diego Healthcare System

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

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

- 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

San Diego, CA

July 2007 - July 2013

Grants & Funding

- **Principal Investigator.** (PI: Bounthavong). Study: Clinical and economic impact of contingency management therapy on veterans with stimulant use disorder; Sponsor: VA HSR&D. (2022-2024). Total amount: \$718,734. (Not funded)
- **Consortium Principal Investigator.** (PI: Watanabe). Study: Enhancing Timely Data to Address the Opioid Epidemic: Creation of a Real-World Database and Visualization Tool for Harmful Opioid Use Tracking (V-THOT) to Inform Clinicians and Policy Makers; Sponsor: NIH. (2022-2025). Total amount: \$1,263,007. (Not funded)
- **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

- 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. *American Journal of Health-System Pharmacy*. 2022 (in review).
- Kugler AJ, Aranda JP, **Bounthavong M**, Chung EP. The impact of test session assignment on student performance on objective structured clinical exams (OSCEs). *Am J Pharm Educ*. 2022 (in review)
- Garcia CC, **Bounthavong M**, Gordon AJ, Gustavson AM, Kenny ME, Miller W, Esmaeili 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. *Implementation Science*. 2022 (in review).
- Sepassi A, Saunders IM, **Bounthavong M**, Taplitz RA, Logan C, Watanabe JH. Cost-Effectiveness of Letemovir for CMV Prophylaxis in Seropositive Post-Allogeneic Hematopoietic Stem Cell Transplant Patients in the United States. *PharmacoEconomics Open*. (in review).
- 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 (in review).
- Stottlmyer 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).
- 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. *Journal of Antimicrobial Chemotherapy*. 2023 (accepted).
- 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. *Journal of General Internal Medicine*. 2023 (accepted).
- 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-ODU): 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.
- **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*. 2021 Nov 12;8971900211053282. doi:10.1177/08971900211053282.
- 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.
- Kazerooni R, Nguyen JB, **Bounthavong M**, Tran MH, Madkour N. New start versus continuing users on aripiprazole: Implications for policy. *Am J Manag Care*. 2015;21(1):e43-e50.
- Sakthar P, **Bounthavong M**, Hirsch JD, Morello CM, Chen TC, Law AV. Development and validation of PSPSQ 2.0 measuring patient satisfaction with pharmacist services. *Res Social Adm Pharm*. 2015 Jul-Aug;11(4):487-98. doi: 10.1016/j.sapharm.2014.10.006. PMID: 25481330.
- **Bounthavong M**, Tran JN, Golshan S, Piland NF, Morello CM, Blickensderfer A, Best JH. Retrospective cohort study evaluating exenatide twice daily and long-acting insulin analogs in a Veterans Health Administration population with type 2 diabetes. *Diabetes Metab*. 2014 Sep;40(4):284-91. doi: 10.1016/j.diabet.2014.06.002. PMID: 25059703.
- **Bounthavong M**, Madkour N, Kazerooni R. Retrospective cohort study of anti-tumor necrosis factor agent use in a Veteran population. *PeerJ*. 2014 May 22;2:e385. doi: 10.7717/peerj.385. PMID: 24883246.
- Chen TC, Christofferson DE, Hamlett-Berry M, Kazerooni R, **Bounthavong M**, Bodie L, Myers M. A tobacco cessation treatment model using telehealth: a pilot evaluation in Veterans. *J Telemed Telecare*. 2014 Apr;20(3):161-3. doi: 10.1177/1357633X14527707. PMID: 24643952.
- Wong SF, **Bounthavong M**, Nguyen C, Bectoldt K, Hernandez E. Implementing a comprehensive oral chemotherapy management clinic: a pilot outcome report. *Am J Health Syst Pharm*. 2014 Jun 1;71(11):960-5. doi: 10.2146/ajhp130278. PMID: 24831001.
- Watanabe JH, Kazerooni R, **Bounthavong M**. Association of copayment with likelihood and level of adherence in new users of statins: a retrospective cohort study. *J Manag Care Pharm*. 2014;20(1):43-50. PMID: 24372459.
- Chen TC, Kazerooni K, Vannort EM, Nguyen K, Nguyen S, Harris J, **Bounthavong M**. Comparison of an intensive pharmacist-managed telephone clinic with standard of care for tobacco cessation in a veteran population. *Health Promot Pract*. 2013 Nov 14;15(4):512-520. PMID: 24231631.
- Kazerooni R, **Bounthavong M**, Watanabe JH. Association of copayment and statin adherence stratified by socioeconomic status. *Ann Pharmacother*. 2013;47(11):1463-70. doi: 10.1177/1060028013505743. PMID: 24259605.
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Poster Presentations

- Lu B, Wong M, Diep C, Ha D, **Bounthavong M**, Banaei Z, Deresinski S. Treatment and Outcomes of Cefoxitin-Non-Susceptible *Serratia marcescens*, *Klebsiella aerogenes*, *Citrobacter freundii*, *Enterobacter cloacae*, and *Morganella morganii* Bacteremia with Piperacillin/Tazobactam Versus Cefepime or Carbapenem in Immunocompromised Patients. Presented at IDWeek 2022, Washington, DC (October 19-23, 2022).
- Sepassi A, **Bounthavong M**, Sauders I, Watanabe JH. Effectiveness of Letemovir for Cytomegalovirus Prophylaxis in Seropositive Allogeneic Hematopoietic STEM Cell Transplant Recipients: A Global Systematic Review. Presented at the ISPOR–The Professional Society for Health Economics and Outcomes Research 2022 Annual Meeting. Washington, DC (May 15-18, 2022).
- Yip WC, **Bounthavong M**. Cost-Utility Analysis of Academic Detailing Outreach on Naloxone Prescribing for Patients at Risk of Opioid-Related Overdose or Death. Presented at the ISPOR–The Professional Society for Health Economics and Outcomes Research 2022 Annual Meeting in Washington, DC. (May 15-18, 2022).
- Popish S, **Bounthavong M**, Harvey MA, Kay CL, Lau MK, Wells DL, Himstreet JE, Christopher MLD. Evaluation of Virtual Academic Detailing on Naloxone Prescribing at the U.S. Veterans Health Administration. Presented at College of Psychiatric and Neurologic Pharmacists (CPNP), San Antonio, TX (April 24-27, 2022).
- **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. Presented at the International Society for Pharmacoeconomics and Outcomes Research. Virtual Conference. (May 18, 2021).
- **Bounthavong M**, Harvey MA, Kay CL, Lau MK, Wells DL, Himstreet JE, Popish SJ, Oliva EM, Christopher MLD. Comparison of full-time and part-time academic detailing on naloxone prescribing at the Veterans Health Administration (encore presentation). Presented at the American Statistical Association International Conference on Health Policy Statistics in San Diego, CA (January 6-8, 2020).
- **Bounthavong M**, McGovern M, Christopher MLD, Midboe AM. Integrating implementation into a conceptual framework for academic detailing's impact on provider's prescribing behavior. Presented at the 12th Annual Conference on the Science of Dissemination and Implementation in Health in Washington, DC (December 4-6, 2019).
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- **Bounthavong M**, Adamson R, Dolan C, Dunn J, Fisher K, Fogli J, Conrad A, Veenstra DL. Cost-Effectiveness Analysis of Patiromer and Renin-Angiotensin-Aldosterone System Inhibitors Therapy in Chronic Kidney Disease Patients With Hyperkalemia. Presented at the Academy of Managed Care Pharmacy Nexus Meeting, Washington, DC (October 22-26, 2018).
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- Zhou J, **Bounthavong M**, Watanabe JH. Association between perception on health and total medical expenditure in patients with type II diabetes. Presented at the 2015 California Society of Health-System Pharmacists Seminar, San Diego, CA (October 8-11, 2015).
- **Bounthavong M**, Li M, Watanabe JH. An evaluation of health care expenditures in Crohn's disease from 2003 to 2012 using the US Medical Expenditure Panel Survey. Presented at the 21st Annual National Research Services Award (NRSA) Conference, Minneapolis, MN (June 13, 2015).
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- Wong SF, Nguyen C, **Bounthavong M**, Hernandez E. Outcome assessment of an oral chemotherapy management clinic: A 3-month report. Presented at the Multinational Association of Supportive Care in Cancer (MASCC) and International Society of Oral Oncology (ISOO) 2012 International Symposium on Supportive Care in Cancer. New York, NY (June 28-30, 2012).
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- Sakharkar P, **Bounthavong M**, Law AV, Hirsch J, Morello CM, Chen TC. Development and validation of PPSQ measuring patient satisfaction with pharmacist clinical services. Presented at the American Pharmacists Association (APhA) Annual Meeting 2012. New Orleans, LA (March 9-12, 2012).
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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).
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- 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).
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- **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).
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- 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

LEADERSHIP

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

PROFESSIONAL MEMBERSHIP

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

SERVICE

Member , Awards Committee, Society for Medication Decision Making	2021 - present
Member, Editorial Advisory Board , Journal of the American Pharmacists Association	2021 - present
Member , Residency Task Force, UCSD Skaggs School of Pharmacy & Pharmaceutical Sciences	2020 - present
Faculty Advisor , AMCP Student Chapter, UCSD Skaggs School of Pharmacy & Pharmaceutical Sciences	2020 - present
Member , Assessment Committee, UCSD Skaggs School of Pharmacy & Pharmaceutical Sciences	2020 - present
Associate Editor , Substance Abuse journal	2020 - present
Member , ISPOR New Professions Steering Committee	2019 - present
Reviewer , Research Review Committee for the IVirtual ISPOR Annual International Meeting	May 17-20, 2021
Student Member , PORPP PhD Curriculum Committee	2016-2017
Student Member , PORPP PhD Applicant Search Committee	2015-2016
Organizer , PORPP Department Retreat Planning Committee	2014-2015
Reviewer , Establishing and Reporting Evidence of the Content Validity of Newly Developed Patient-Reported Outcomes (PRO) Instruments for Medical Product Evaluation: Good Research Practices	2013
Reviewer , Research Review Committee for the ISPOR 18th Annual International Meeting at New Orleans, LA, USA	May 18-22, 2012
Reviewer , Research Review Committee for the 33rd Annual Meeting of the Society for Medical Decision Making at Chicago, IL, USA	Oct. 22-26, 2011
Reviewer , Research Review Committee for the ISPOR 17th Annual International Meeting at Washington D.C., USA	June 2-6, 2012
Reviewer , Research Review Committee for the ISPOR 16th Annual International Meeting at Baltimore, MD, USA	May 20-25, 2011
Reviewer , Research Review Committee for the ISPOR 15th Annual International Meeting at Atlanta, GA, USA	May 16-20, 2010
Reviewer , Research Review Committee for the ISPOR 14th Annual International Meeting at the Renaissance Orlando Resort at SeaWorld in Orlando, FL, USA	May 16-20, 2009

Honors & Awards

Finalist , Innovation in Teaching Award, American Association of Colleges of Pharmacy (AACP)	2021
Awardee , Pharmacy Class (Year 1) Teacher of the Year Award, UCSD Skaggs School of Pharmacy & Pharmaceutical Sciences	2021
Nominated , Husky 100, University of Washington	2018
Finalist , Graduate School "Scholar Citizen" Medal Award, University of Washington	2018
Best Student Paper Award , ("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
Awardee , Veterans Health Administration Under Secretary of Health Pharmacy Benefits Management Innovation Award, Department of Veterans Affairs	2018
Best Practice Award , ("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
Awardee , Graduate Student Leadership Award, University of Washington	2017
Awardee , Graduate School Fund for Excellence and Innovation, University of Washington	2017

Nominated , Husky 100, University of Washington	2017
Finalist , Lindau Nobel Laureate Meetings/Foundation Lindau Nobel Laureate Meetings	2017
Alumni Achievement Award , 20th Anniversary Gala Celebration. College of Pharmacy, Western University of Health Sciences	2016
Awardee , Graduate School Fund for Excellence and Innovation Graduate Student Travel Award. University of Washington, School of Pharmacy	2015
Best Podium (tied) , "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
Best Paper (tied) , 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
Awardee , Reducing Barriers for the Ambitious Fund, established by Dr. Dana Hurley. University of Washington, School of Pharmacy	2015
AHRQ T32 Fellowship , Agency for Healthcare Research and Quality T32 PhD Student training grant #T32HS013853	2013-2015
Outstanding Practicum Experience Award , Rollins School of Public Health, Emory University: "Smoking Cessation in a Women's Health Clinic at the Department of Veterans Affairs"	2013
Top 10 Cited Paper 2010 Award , 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
Literature Award , Innovation in Pharmacy Practice, ASHP: "Implementing a comprehensive, 24-hour emergency department pharmacy program."	2010
Pharmacy Innovations Award , U.S. Under Secretary for Health PBM Innovations Award	2009
Distinguish Service Award , Thomas J. Long School of Pharmacy and Health Sciences, University of the Pacific	2009
Best Practice Poster Award , ("Implementing a comprehensive, 24-hour emergency department pharmacy program"), American Society of Health-System Pharmacy (ASHP)	2008

License and Certification

California State Licensed Pharmacist (since 2004)	RPH 55969 Expires: 05/31/2022
Washington State Licensed Pharmacist (since 2015)	PH60419006 Expires 05/11/2021
Pharmacist-Based Immunization Delivery: Certificate for Pharmacists	CPN#202-0011
National Provider Identifier	1720272578