

# Paige D Wartko

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Kaiser Permanente Washington Health Research Institute  
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## EDUCATIONAL AND BIOGRAPHICAL INFORMATION

**PhD**, Department of Epidemiology, University of Washington, *August 2018*  
**MPH**, Department of Epidemiology, Maternal and Child Health Leadership Program,  
University of Washington, *June 2015*  
**BS**, Department of Public Health Sciences, Clemson University, *August 2012*

## PROFESSIONAL POSITIONS

### Current Position

- **Collaborative Scientist II**, Kaiser Permanente Washington Health Research Institute, Seattle, WA, *October 2018–present*

### Prior Research Experience

- Graduate student researcher: Antidepressant use in pregnancy and gestational diabetes, maternal gestational weight gain, and infant birth weight (dissertation project), Kaiser Permanente Washington Health Research Institute, *2015–2018*
- Graduate student researcher: Cannabis use in pregnancy; prevalence and qualitative analysis, Kaiser Permanente Washington Health Research Institute, *2017–2018*
- Epi Scholars Program, Assessment, Policy Development, and Evaluation Unit, Public Health - Seattle & King County, *June–August 2014*
- Summer Fellow, Hormonal and Reproductive Epidemiology Branch (now the Metabolic Epidemiology Branch), National Cancer Institute, *June–September 2012*

## PROFESSIONAL HONORS

- Outstanding Mentor Award Nominee, Kaiser Permanente Washington Health Research Institute, *2022, 2020*
- Samuel and Althea Stroum Endowed Graduate Fellowship, University of Washington Diabetes Research Center, *April 2017–March 2018*
- Scholarship recipient, Summer Institute for Statistics in Big Data, University of Washington, *July 2017*
- Reproductive, Perinatal, and Pediatric Epidemiology Training Grant Fellowship, *September 2014–March 2017*
- Outstanding Master's Student Award, Department of Epidemiology, University of Washington, *May 2015*
- Maternal and Child Health Traineeship, University of Washington, *September 2013–June 2014*
- National Merit Scholarship, *2008–2012*

- Emerging Leader Award, College of Health, Education and Human Development, Clemson University, 2012
- Scholastic Achievement Award, Department of Public Health, Clemson University, 2012
- Susan Delony Academic Achievement Award, Michelin Career Center, Clemson University, 2012
- Undergraduate Faculty Scholarship Award, Clemson University, 2012

## MEMBERSHIPS

- Member, International Society for Pharmacoepidemiology
- Member, Society for Pediatric and Perinatal Epidemiologic Research
- Member, Society for Epidemiologic Research

## ORGANIZATIONAL SERVICE

- Research Associates' (now Collaborative Scientists') Representative for KPWHRI Institute Steering Committee, *Jul 2020–Dec 2021*

## OTHER PROFESSIONAL SERVICE

- Program Committee Co-Chair, Student and Postdoc Committee, Society for Epidemiologic Research, 2018-2020
- Epidemiology Student Representative: Works in Progress Coordinator, Department of Epidemiology, University of Washington, 2017-2018
- Epidemiology Seminar Committee Member, Department of Epidemiology, University of Washington, 2014-2016
- Epi Expo Co-Chair, Department of Epidemiology, University of Washington, 2014-2015
- Maternal and Child Health Student Ambassador, Maternal and Child Health Leadership Training Program, University of Washington, 2014-2015

## SPECIAL NATIONAL RESPONSIBILITIES

- Patient-Centered Outcomes Research Institute (PCORI) Cycle 2, 2021 Intellectual and/or Developmental Disabilities & Assessment of Prevention, Diagnosis, and Treatment Options Merit Review Panel. *September 2021-December 2021*

## EDITORIAL RESPONSIBILITIES

- Journal Peer-Reviewer:
  - Annals of Internal Medicine, 2019, 2020, 2022
  - The Journal of Maternal-Fetal & Neonatal Medicine, 2022
  - BMC Pregnancy and Childbirth, 2022
  - Pharmacoepidemiology & Drug Safety, 2020
  - Journal of Women's Health, 2018
- Abstract reviewer:
  - International Conference on Pharmacoepidemiology, 2018
  - Society for Pediatric and Perinatal Epidemiologic Research, 2017

## RESEARCH FUNDING

### Current Funding

- Grant #: 2UG1 DA04031406. National Institute on Drug Abuse. 6/1/2017-2/28/2023. Primary Care Opioid Use Disorders treatment (PROUD) study. Direct Costs: \$8,601,335. Role: Co-Lead of Data & Analytics Team.  
Major goals: To evaluate whether implementation of a model of opioid use disorder treatment in primary care in which a nurse care manager is added into the clinic increases access to opioid use disorder treatment (primary aim) and decreases acute care utilization among people with opioid use disorder (secondary aim), when compared with usual primary care.
- Grant #: Ro1 DA044970. National Institute on Drug Abuse. 3/15/2018-12/31/2022. STRategies to Improve Pain and Enjoy life (STRIPE) trial. Direct Costs: \$1,169,474. Role: Collaborative Scientist.  
Major goals: To assess whether a pain coping skills training intervention with optional opioid taper support decreased opioid dose and improved pain and functioning in those on moderate-high dose long-term opioid therapy for chronic pain.
- Grant #: Ro1HD107083. National Institute of Child Health and Human Development. 8/1/2022-4/30/2027. Identifying Optimal Antibiotic Regimens to Treat Urinary Tract Infections During Pregnancy. Role: Co-Investigator.  
Major goals: 1) Characterize real-world prescribing patterns, guideline concordance, and antimicrobial susceptibility patterns related to outpatient treatment of UTI during pregnancy; 2) compare the risk of treatment failure with commonly-used antibiotic regimens in this setting; and 3) evaluate the comparative safety of commonly-used antibiotic regimens during pregnancy with respect to birth defects and perinatal complications.
- Grant #: Grant # LTD10120. Syneos Health. 12/31/2014 - 1/31/2023. Protocol for ER/LA Opioid Post-Marketing Requirement Studies: Observational Study #2065-1A. Role: Site Principal Investigator  
Major Goals: To quantify the serious risks of misuse, abuse, and addiction associated with long-term use of opioid analgesics for management of chronic pain among patients prescribed extended release/long acting opioid products. In addition, we will estimate how the risk of these outcomes varies by the presence of risk factors such as other substance use and psychiatric disorders among patients treated with opioids long-term.

### Completed Funding

- Contract #: CW149304. GlaxoSmithKline. 9/9/2020-5/8/2022.  
GSK Pregnancy Exposure Study. Direct Costs: \$302,486. Role: Collaborative Scientist.  
Major goal: Using data from 6 data partners, we will describe the use of certain biologic medications in women of childbearing age and pregnant women, to guide future studies of pregnancy outcomes.
- Kaiser Permanente Washington Health Research Institute Development Fund. 1/1/2019-12/31/2019. Exploring and acquiring new data sources for pregnancy research. Direct Costs: \$86,918. Role: Collaborative Scientist.

Major goals: To investigate new potential data sources for pregnancy research, including the New Zealand birth cohort and the Washington All Payers Claims Database, for feasibility to include in new federal grant proposals.

- Grant #: U01CE002967. Centers for Disease Control and Prevention. 9/30/2018-9/29/2022.  
STOPFalls. Direct Costs: \$1,467,864. Role: Collaborative Scientist.  
Major goals: To refine and test an intervention to reduce falls in older adults by reducing the use of central-nervous-system-active medications among older adults who receive medical care through Kaiser Permanente (KP) Washington.

## TEACHING AND MENTORING RESPONSIBILITIES

### Teaching Positions

- Teaching Assistant, Preparing, Writing and Critiquing Scientific Research Proposals (graduate level course), Department of Epidemiology, University of Washington, *Spring 2018*
- Adjunct Faculty, Statistical Research Methods, Department of Allied Health, Lake Washington Institute of Technology, *Autumn 2017*
- Teaching Assistant, Exposure Measurement/Advanced Epidemiologic Methods I (graduate level course), Department of Epidemiology, University of Washington, *Autumn 2016*
- Teaching Assistant, Epidemiologic Methods I & II (graduate level courses), Department of Epidemiology, University of Washington, *Autumn 2015 - Winter 2016*

### Guest Lectures

- Invited lecture, University of Washington School of Public Health. EPI/Pharm 533, Pharmacoepidemiology. "Inverse probability of treatment weighting to address confounding." *May 5, 2022; May 4, 2020.*
- Invited lecture, University of Washington Department of Psychiatry & Behavioral Sciences. Presented to University of Washington Psychiatry Fellows for the Women's Mental Health Fellowship program. "Interpreting the perinatal pharmacoepidemiology literature." *September 23, 2020.*

## PUBLICATIONS

### Published Papers in Refereed (Peer-Reviewed) Journals

1. **Wartko PD**, Qiu H, Idu AE, Yu O, McCormack J, Matthews A, Bobb JF, Saxon AJ, Campbell CI, Liu D, Braciszewski JM, Murphy SM, Burganowski RP, Murphy MT, Horigian VE, Hamilton LK, Lee AK, Boudreau DM, Bradley KA. Baseline representativeness of patients in clinics enrolled in the PRimary care Opioid Use Disorders treatment (PROUD) trial: comparison of trial and non-trial clinics in the same health systems. *BMC Health Serv Res.* 2022 Dec 29; 22(1): 1593. doi: 10.1186/s12913-022-08915-1.
2. Kiel L, Hsu C, **Wartko PD**, Albertson-Junkans L, Ewing J, Lapham G. Perspectives from women who engaged in prenatal and postpartum cannabis use in a U.S. state with legal non-medical use. *Prev Med Rep.* 2022. In press. Online ahead of print: November 29, 2022. doi: 10.1016/j.pmedr.2022.102075.

3. **Wartko PD**, Boudreau DM, Turner JA, Cook AJ, Wellman RD, Fujii MM, Garcia RC, Moser KA, Sullivan MD. STRategies to Improve Pain and Enjoy life (STRIPE): Protocol for a pragmatic randomized trial of pain coping skills training and opioid medication taper guidance for patients on long-term opioid therapy. *Contemp Clin Trials*. 2021 Jul 1;106499. doi: 10.1016/j.cct.2021.106499. PMC8595515.
4. **Wartko PD**, Weiss NS, Enquobahrie DA, Chan KCG, Stephenson-Famy A, Mueller BA, Dublin S. Association of antidepressant continuation in pregnancy and infant birthweight. *J Clin Psychopharmacol*. 2021 Jul-Aug 01;41(4):403-413. doi: 10.1097/JCP.0000000000001410. PMC8423453.
5. Campbell CI, Saxon AJ, Boudreau DM, **Wartko PD**, Bobb JF, Lee AK, Matthews AG, McCormack J, Liu DS, Addis M, Altschuler A, Samet JH, Labelle C, Arnsten J, Caldeiro RM, Borst DT, Stotts AL, Braciszewski JM, Szapocznik J, Bart GB, Schwartz RP, McNeely J, Liebschutz JM, Tsui JI, Merrill JO, Glass JE, Lapham GT, Murphy SM, Weinstein ZM, Yarborough BJH, Bradley KA. PRimary Care Opioid Use Disorders treatment (PROUD) trial protocol: a pragmatic, cluster-randomized implementation trial in primary care for opioid use disorder treatment. *Addict Sci Clin Pract*. 2021 Jan 31;16(1):9. <https://doi.org/10.1186/s13722-021-00218-w>. PMC7849121.
6. **Wartko PD**, Weiss NS, Enquobahrie DA, Chan KCG, Stephenson-Famy A, Mueller BA, Dublin S. Maternal gestational weight gain in relation to antidepressant continuation in pregnancy. *Am J Perinatol*. 2020 Nov;38(13):1442-1452. doi: 10.1055/s-0040-1713652. PMC8487259.
7. **Wartko PD**, Weiss NS, Enquobahrie DA, Chan KCG, Stephenson-Famy A, Mueller BA, Dublin S. Antidepressant continuation in pregnancy and risk of gestational diabetes. *Pharmacoepidemiol Drug Saf*. 2019 Sep;28(9):1194-1203. doi: 10.1002/pds.4799. PMC6728166.
8. Chen L, Pocobelli G, Yu O, Shortreed SM, Osmundson SS, Fuller S, **Wartko PD**, McCulloch D, Warwick S, Newton KM, Dublin S. Early Pregnancy Hemoglobin A<sub>1c</sub> and Pregnancy Outcomes: A Population-Based Study. *Am J Perinatol*. 2019 Aug;36(10):1045-1053. doi: 10.1055/s-0038-1675619. PMC6612540.
9. Pocobelli G, Onchee Y, Fuller S, Fraser JR, **Wartko PD**, Chen L, Newton K, Dimer J, McCulloch D, Warwick S, Dublin S. One-Step Approach to Identifying Gestational Diabetes Mellitus: Association with Perinatal Outcomes. *Obstet Gynecol*. Oct 2018; 132(4):859-867. doi: 10.1097/AOG.0000000000002780.
10. **Wartko PD**, Beck TL, Reed SD, Mueller BA, Hawes SE. Association of endometrial hyperplasia and cancer with a history of gestational diabetes. *Cancer Causes Control*. 2017 Aug; 28(8):819-828. doi: 10.1007/s10552-017-0908-9. PMC8487256.
11. Badon SE, Enquobahrie DA, **Wartko PD**, Miller RS, Qiu C, Gelaye B, Sorensen TK, Zhang C, Williams MA. Healthy lifestyle during early pregnancy and risk of gestational diabetes mellitus. *Am J Epidemiol*. 2017 Aug 1; 186(3):326-333. doi: 10.1093/aje/kwx095. PMC5860043.
12. **Wartko PD**, Wong EY, Enquobahrie DA. Maternal birthplace is associated with low birth weight within racial/ethnic groups. *Matern Child Health J*. 2017 Jun; 21(6):1358-1366. doi: 10.1007/s10995-016-2241-2244. PMC5445006.
13. Badon SE, **Wartko PD**, Qiu C, Sorensen TK, Williams MA, Enquobahrie DA. Leisure time physical activity and gestational diabetes mellitus in the Omega study. *Med Sci Sports Exerc*. 2016 Jun; 48(6):1044-1052. doi: 10.1249/MSS.0000000000000866. PMC4868777.

14. **Wartko P**, Sherman ME, Yang HP, Felix AS, Brinton LA, Trabert B. Recent changes in endometrial cancer trends among menopausal-age US women. *Cancer Epidemiol.* 2013 Aug; 37(4):374-377. doi: 10.1016/j.canep.2013.03.008. PMC3679300.

### Manuscripts In Preparation

1. **Wartko PD**, Krakauer C, Turner JA, Cook AJ, Boudreau DM, Sullivan MD. STRategies to Improve Pain and Enjoy life (STRIPE): results of a pragmatic randomized trial of pain coping skills training and opioid medication taper guidance for patients on long-term opioid therapy. Submitted to PAIN. 2022 [under review].

### Invited Commentaries/Editorials

1. Dublin S, **Wartko P**, Mangione-Smith R. Studying medication safety in pregnancy: a call for new approaches, resources and collaborations. *Pediatrics.* 2020 Jul;146(1):e20201540. doi: 10.1542/peds.2020-1540. [Epub 2020 Jun 8.]

### Non-Refereed Papers/Articles

1. Boggs W, expert commenter: **Wartko PD**. “Increased Risk of Gestational Diabetes Seen With Some Antidepressants.” Reuters news article published on the Psychiatry & Behavioral Health Learning Network website.  
<https://www.psychcongress.com/article/increased-risk-gestational-diabetes-seen-some-antidepressants>. [Epub Oct 3, 2019]
2. Badon SE and **Wartko PD**. Active Voice: Exercising for Two — Physical Activity during Pregnancy to Prevent Gestational Diabetes. *Sports Medicine Bulletin; A Weekly News and Sports Resource from the American College of Sports Medicine.*  
<https://www.multibriefs.com/briefs/acsm/active100416.htm> [Epub Oct 3, 2016]

### INVITED PRESENTATIONS

1. **Wartko PD**, Bobb JF, Bushey M, Bradley KA. National Institute on Drug Abuse Clinical Trials Network Summer Webinar Series on Real World Data: Pragmatic trials to improve treatment of opioid use disorder in primary care using real world data: PROUD and MI-CARE— Unique approaches and lessons learned; July 21, 2021.

### OTHER PRESENTATIONS

#### Workshops

1. Fuoco MJ, Lee AK, **Wartko PD**, Hamilton PD, Glass JE, Lapham GT, Matthews AG, McCormack J, Debar L, Saxon AJ, Bradley KA. Conducting Pragmatic Trials of Interventions to Improve Care for Substance Use in Medical Settings: Lessons from 4 Trials. 2022 College on Problems of Drug Dependence Annual Scientific Meeting; June 12, 2022; Minneapolis, MN.

#### Oral Presentations

1. Bradley KA, Bobb JF, Matthews AG, Boudreau DM, **Wartko PD**, McCormack J, Liu DS, Campbell CI, Lee AK, Samet JA, Labelle CT, Addis M, Yu O, Idu A, Qiu H, Hyun N, Glass JE, Caldeiro R, Arnsten J, Cunningham C, Braciszewski JM, Loree A, Stotts A, Zare M, Szapocznik J, Horigian V, Murphy MT, Saxon AJ. PROUD Trial Main Results: A Pragmatic Implementation Trial Testing the Massachusetts Model of Nurse Collaborative Care for Opioid Use Disorder. International Network on Brief Interventions for Alcohol Problems (INEBRIA) 18th Annual Conference. Edinburgh, Scotland, United Kingdom. September 23, 2022.
2. **Wartko PD**, Weiss NS, Enquobahrie DA, Chan KCG, Stephenson-Famy A, Mueller BA, Dublin S. Validity of maternal weight and gestational weight gain measures from birth certificates [oral presentation]. Presented at: Annual Meeting of the Society for Epidemiologic Research; June 20, 2019; Minneapolis, MN.
3. **Wartko PD**, Weiss NS, Enquobahrie DA, Chan KCG, Stephenson-Famy A, Mueller BA, Dublin S. Scientific Seminar: Antidepressant medication continuation during pregnancy and perinatal outcomes, including gestational weight gain, gestational diabetes, and birthweight [oral presentation]. Presented at the Kaiser Permanente Washington Health Research Institute Scientific Seminar; May 28, 2019; Seattle, WA.
4. **Wartko PD**, Weiss NS, Enquobahrie DA, Chan KCG, Stephenson-Famy A, Mueller BA, Dublin S. Antidepressant continuation in pregnancy in relation to infant birthweight [oral presentation]. Presented at: Health Care Systems Research Network Annual Meeting; Apr 8, 2019; Portland, OR.
5. **Wartko PD**, Tuzzio L, DiJulio B. Epi 101: Survey design, data collection, data quality [oral presentation]. Presented at at the Kaiser Permanente Washington Health Research Institute Epi 101 course: Mar 7, 2019; Seattle, WA.
6. **Wartko PD**, Weiss N, Enquobahrie DA, Mueller BA, Chan GKC, Stephenson-Famy A, Dublin S. Association of antidepressant continuation in pregnancy with maternal gestational weight gain and gestational diabetes [oral presentation]. Presented at: International Conference on Pharmacoepidemiology; Aug 25, 2018; Prague, Czech Republic.
7. Pocobelli G, Warwick S, Dimer J, Yu O, Fuller S, Fraser J, **Wartko PD**, Chen L, Newton KM, McCulloch D, Dublin S. Maternal and neonatal outcomes in relation to adoption of the 1-step approach to identifying gestational diabetes mellitus [oral presentation]. Presented at: Annual Meeting of the Society for Maternal Fetal Medicine; Feb 2, 2018; Dallas, TX.
8. Badon SE, **Wartko PD**, Qiu C, Williams MA, Enquobahrie DA. Maternal leisure time physical activity and pregnancy complications: the Omega study [oral presentation]. Presented at: American College of Sports Medicine 62<sup>nd</sup> Annual Meeting; May 29, 2015; San Diego, CA.
9. **Wartko PD**, Wong EY. Assessing low birth weight by detailed racial/ethnic groups, King County, 2008-2012 [oral presentation]. Presented to: Assessment, Policy Development and Evaluation Unit at Public Health – Seattle & King County and community groups; August 12 and 18, 2014; Seattle, WA.

## Poster Presentations

1. **Wartko PD**, Fuller S, Singh U, Howe A, Shortreed SM, D'Souza S, Mangione-Smith R, Dublin S. Trends in Antiemetic Medication Use in Pregnancy in an Integrated Health System in the US, 2010–2021 [poster]. Presented virtually at the 62nd Annual Meeting, Society for Birth Defects Research and Prevention; June 21, 2022; Vancouver BC, Canada and presented in-person (by Sascha Dublin on behalf of Paige Wartko) at the ISPE 38th International Conference on Pharmacoepidemiology and Therapeutic Risk Management; August 24-28, 2022; Copenhagen, Denmark.
2. **Wartko PD**, Howe A, Shortreed SM, Mangione-Smith R, Dublin S. Trends in antinausea medication use in pregnancy in New Zealand, 2006-2016 [poster]. Presented virtually at ISPE 36th International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE All Access virtual meeting); September 16, 2020.
3. **Wartko PD**, Dublin S, Kiel L, Ewing J, Albertson-Junkans L, Hsu C, Lapham G. Prevalence and frequency of cannabis use among pregnant women in a large health care system in Washington State [poster]. Presented at: Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research; June 19, 2018; Baltimore, MD.
4. **Wartko PD**, Weiss N, Enquobahrie DA, Mueller BA, Chan GKC, Stephenson-Famy A, Dublin S. Association of antidepressant continuation in pregnancy with maternal gestational weight gain, gestational diabetes and infant birth weight [poster]. Presented at: Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research; June 19, 2018; Baltimore, MD.
5. Chen L, Pocobelli G, Shortreed SM, Osmundson S, Fuller S, **Wartko P**, McCulloch D, Warwick S, Newton KM, Dublin S. Early Pregnancy Hemoglobin A1c Values and Pregnancy Outcomes: a Population-Based Study [poster]. Society for Maternal Fetal Medicine; Feb 2, 2018; Dallas, TX.
6. Badon SE, Enquobahrie DA, **Wartko PD**, Miller RS, Qiu C, Gelaye B, Williams MA. Healthy lifestyle during early pregnancy and risk of gestational diabetes mellitus [poster]. Presented at: 2016 Epidemiology Congress of the Americas, June 23, 2016; Miami, FL.
7. Beck TL, Urban RU, Reed SD, Mueller BA, Hawes SE, **Wartko PD**. Gestational diabetes may increase risk of endometrial cancer later in life - results of a population-based study in Washington State; 1987-2012 [poster]. Presented at: Society of Gynecologic Oncology 2015 Annual Meeting on Women's Cancers; March 28, 2015; Chicago, IL.
8. **Wartko PD**, Mueller BA, Reed SD, Hawes SE, Beck TL. Association of endometrial hyperplasia or cancer with a history of gestational diabetes - results from a population-based study in Washington State, 1987-2013 [poster]. Presented at: 28<sup>th</sup> Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research; June 16, 2015; Denver, CO.
9. **Wartko PD**, Wong EY, Enquobahrie DA. Low birth weight among detailed racial and ethnic groups by maternal country of origin [poster]. Presented at: 28<sup>th</sup> Annual Meeting of the Society for Pediatric and Perinatal Epidemiologic Research; June 16, 2015; Denver, CO.
10. **Wartko PD**, Sherman ME, Yang HP, Felix AS, Brinton LA, Trabert B. Recent changes in endometrial cancer trends among menopausal-age US women [poster]. Presented at: National Institutes of Health Summer Poster Day; August 9, 2012; Bethesda, MD and National Cancer Institute Division of Cancer Epidemiology and Genetics Summer Poster Session; August 10, 2012; Rockville, MD.



11. **Wartko PD**, Spitler H, Truong KD. Drinking behaviors of US women related to pregnancy across racial and ethnic groups [poster]. Presented at: Clemson University College of Health, Education and Human Development Research Forum; April 19, 2012; Clemson, SC.