

Kao-Ping Chua, MD, PhD
Assistant Professor of Pediatrics
Susan B. Meister Child Health Evaluation and Research Center
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Education and Training

Education

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| 08/1998-05/2002 | BS in Neuroscience, <i>summa cum laude</i> , Vanderbilt University, Nashville, TN |
| 08/2002-05/2007 | MD, Washington University School of Medicine, St. Louis, MO |
| 08/2011-05/2015 | PhD in Health Policy (Evaluative Sciences and Statistics concentration), Harvard University, Cambridge, MA. Dissertation title: "Effects of Clinical Practice Guidelines and Insurance Coverage among Children and Young Adults." Committee: Kathy Swartz (chair), J. Michael McWilliams, Benjamin Sommers |

Postdoctoral training

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| 07/2007-06/2010 | Residency in Pediatrics, Boston Combined Residency Program (Boston Children's Hospital and Boston Medical Center), Boston, MA |
| 07/2010-06/2012 | Postdoctoral Research Fellow, Harvard Pediatric Health Services Research Fellowship, Boston, MA |

Certification and Licensure

Certification

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| 10/2010-present | American Board of Pediatrics, Certificate #96996 |
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Licensure

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| 07/2010-06/2015 | State of Massachusetts, License #242746 |
| 06/2015-09/2017 | State of Illinois, License #036.138203 |
| 10/2017-present | State of Michigan, License #4301113525 |

Work Experience

Academic

07/2015-09/2017	Assistant Professor of Pediatrics, University of Chicago, Chicago, IL
07/2015-09/2017	Assistant Professor of Public Health Sciences, University of Chicago, Chicago, IL
10/2017-09/2019	Clinical Assistant Professor of Pediatrics, University of Michigan Medical School, Ann Arbor, MI
10/2019-present	Assistant Professor of Pediatrics, University of Michigan Medical School, Ann Arbor, MI
09/2020-present	Assistant Professor of Health Policy and Management, University of Michigan School of Public Health, Ann Arbor, MI

Clinical

07/2010-06/2015	Urgent Care Attending, Boston Children's Hospital Emergency Department, Boston, MA
07/2010-06/2015	Urgent Care Attending, South Shore Hospital Emergency Department, Weymouth, MA
07/2015-09/2017	Urgent Care Attending, Comer Children's Hospital Emergency Department, University of Chicago, Chicago, IL
10/2017-present	Primary Care Physician, Department of Pediatrics, University of Michigan Medical School, Ann Arbor, MI

Research

07/2010-06/2012	Research Fellow, Boston Children's Hospital, Boston, MA
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Non-Academic

07/2004-06/2005	Jack Rutledge Fellow, American Medical Student Association. Between my third and fourth year of medical school, I worked at the American Medical Student Association's national office in Reston, VA. I led the organization's efforts to ensure universal access to health care and to eliminate health care disparities.
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Research Interests

I am a practicing primary care pediatrician with doctoral training in health policy. A major area of my research is opioid prescribing and policy. For example, using national administrative databases, I have identified opioid prescribing patterns associated with opioid overdose among adolescents and young adults, conducted national studies on the prescribers and safety of opioid prescribing to U.S. children and young adults, documented excessive opioid prescribing

by dentists and the harms of this prescribing for patients and their families, and evaluated the effects of opioid prescribing limits for acute pain on prescribing.

A second area of my research is out-of-pocket spending. My studies have identified rising out-of-pocket spending on epinephrine auto-injectors, estimated the impact of insulin cost-sharing caps on insulin out-of-pocket spending among pediatric patients with type 1 diabetes, and documented the magnitude of out-of-pocket spending and surprise bills for maternal deliveries and newborn hospitalizations among privately insured families. My work on out-of-pocket spending for COVID-19 hospitalizations has received national coverage by outlets such as the *New York Times* and *C-SPAN*.

A third area of my research is low-value care. For example, I translated recommendations from sources such as *Choosing Wisely* into 20 claims-based measures of low-value pediatric services. Using these measures and national claims data, I found that 9% of privately insured children and 11% of publicly insured children received at least one of the 20 low-value services in 2014. As another example, I created the first comprehensive ICD-10-CM-based system for assessing antibiotic overuse in administrative data. Using this scheme and 2016 national commercial claims data, I found that 23% of antibiotic prescriptions written to privately insured children and non-elderly adults were written for conditions that do not justify the use of antibiotics.

Grants

Current Grants

Benter Foundation

U.S. Dental Opioid Prescribing: Motivating and Enacting Improvements.

Kao-Ping Chua (MPI), Chad Brummett (MPI)

07/2023-06/2025

Role: MPI

\$668,219

National Institute on Drug Abuse (R01DA056438-01)

Insurance-Related Barriers to Medications for Opioid Use Disorder in Private and Medicaid plans

Kao-Ping Chua (MPI), Thuy Nguyen (MPI)

09/2022-08/2026

Role: MPI/contact PI

\$2,512,669

National Institute on Drug Abuse (R01DA057284-01)

Evaluating Policy Interventions to Decrease Excessive and Risky Perioperative Opioid Prescribing

Kao-Ping Chua (MPI), Jennifer Waljee (MPI)

09/2022-08/2026

Role: MPI

\$2,638,302

Agency for Healthcare Research and Quality

Opportunities to optimize the receipt of preventive services among children with sickle cell anemia: A Mixed Methods Approach

Sarah Reeves (PI)

09/2021-08/2025

Role: Co-I

\$1,551,105

Susan B. Meister Child Health Evaluation and Research Center (University of Michigan)

Michigan COVID-19 Research Program in Pediatrics

Kao-Ping Chua (PI)

03/2021-06/2025

Role: PI

\$132,500

National Institute on Drug Abuse (1K08DA048110-01)

Using Default Opioid Prescription Settings to Limit Excessive Opioid Prescribing to Adolescents and Young Adults

Kao-Ping Chua (PI)

05/2019-04/2024

Role: PI

\$911,520

Past Grants

Benter Foundation

U.S. Dental Opioid Prescribing: Epidemiology and Policy Interventions

Kao-Ping Chua (MPI), Chad Brummett (MPI)

03/2020-02/2023

Role: MPI

\$1,095,045

Institute for Healthcare Policy and Innovation (University of Michigan)

Racial and Ethnic Disparities in Timely Treatment Initiation Following Emergency Department Visits for Non-Fatal Opioid Overdose

PI: Thuy Nguyen

04/2022-03/2023

Role: Co-I

\$10,000

Institute for Healthcare Policy and Innovation (University of Michigan)

Views of Parents and Guardians of School-Age Children on Public School Opening During the COVID-19 Pandemic

PI: Kao-Ping Chua

06/2020-09/2020

Role: PI

\$9,990

Gorman Scholar Award (University of Michigan)

Naloxone Prescribing to Adolescents and Young Adults at High Risk of Overdose

PI: Kao-Ping Chua

01/2019-10/2023

Role: PI

\$30,000

Institute for Healthcare Policy and Innovation (University of Michigan)

Design and Implementation Problems for Opioid Prescribing Limits for Acute Pain
PI: Kao-Ping Chua
11/2018-04/2019
Role: PI
\$10,000

Janette Ferrantino Award (University of Michigan)
A National Profile of Opioid Prescribing to Children
PI: Kao-Ping Chua
05/2018-04/2020
Role: PI
\$40,000

Academic Pediatric Association Young Investigator Award
Predictors of Overuse in Pediatrics
PI: Kao-Ping Chua
03/2017-04/2019
Role: PI
\$8,697

NIH Loan Repayment Program (Health Disparities)
The Effect of Health Insurance Loss on Health Outcomes at Age 19
PI: Kao-Ping Chua
07-2011-06/2013
Role: PI

NRSA T32 training grant (NRSA T32-HS00063)
Harvard Pediatric Health Services Research Fellowship
PI: Jonathan Finkelstein
07/2011-06/2013
Role: Trainee

Honors and Awards

Institutional

1998-2002	Harold Stirling Vanderbilt Scholarship, Vanderbilt University (Full-tuition academic scholarship)
2002	Runner-up for Founder's Medal, Vanderbilt University (Award for the top student in the College of Arts & Sciences)
2002-2007	Distinguished Student Scholarship, Washington University School of Medicine (full-tuition academic scholarship)
2004	Harrison Scholar, Washington University School of Medicine (award for the top medical students in internal medicine)
2007	George F. Gill Prize in Pediatrics, Washington University School of Medicine (award for the top medical students in pediatrics)

2019	Faculty Award for Health Services Research, Department of Pediatrics, University of Michigan Medical School
2022	Chair's Rising Star Award, Department of Pediatrics, University of Michigan Medical School

National

2017	Academic Pediatric Association Young Investigator Award
2022	Top Reviewer for <i>Annals of Internal Medicine</i>
2023	Top-Scoring Abstract in Health Services Research by Faculty Member, 2023 Pediatric Academic Societies Meeting

Memberships in Professional Societies

2007-present	American Academy of Pediatrics
2010-present	AcademyHealth
2014-present	Academic Pediatric Association
2020-present	Society for Pediatric Research

Editorial Positions, Boards, and Peer-Review Services

Editorial Board

2019-2022	<i>Medical Care Research and Review</i>
2022-present	<i>Pediatrics</i>

Journal Reviewer

2014-present	<i>Milbank Quarterly</i>
2014-present	<i>Journal of Adolescent Health</i>
2015-present	<i>Health Services Research</i>
2015-present	<i>The Journal of Pediatrics</i>
2016-present	<i>Medical Care</i>
2017-present	<i>Public Health Reports</i>
2017-present	<i>American Journal of Public Health</i>
2018-present	<i>Medical Care Research and Review</i>
2018-present	<i>Academic Pediatrics</i>
2018-present	<i>Pediatrics</i>
2018-present	<i>Journal of Addictive Diseases</i>
2018-present	<i>JAMA Network Open</i>
2019-present	<i>JAMA</i>
2019-present	<i>Addiction</i>
2019-present	<i>BMJ</i>
2019-present	<i>Journal of the American Academy of Child and Adolescent Psychiatry</i>
2019-present	<i>PLoS Medicine</i>
2019-present	<i>JAMA Pediatrics</i>
2020-present	<i>BMC Health Services Research</i>

2020-present	<i>Health Affairs</i>
2020-present	<i>JAMA Internal Medicine</i>
2020-present	<i>Clinical Infectious Diseases</i>
2021-present	<i>Pain</i>
2021-present	<i>Annals of Internal Medicine</i>
2021-present	<i>JAMA Health Forum</i>
2021-present	<i>American Journal of Preventive Medicine</i>
2021-present	<i>Drug and Alcohol Dependence</i>
2021-present	<i>Lancet</i>
2022-present	<i>JAMA Surgery</i>
2022-present	<i>JAC - Antimicrobial Resistance</i>
2023-present	<i>Surgery</i>
2023-present	<i>Health Affairs Scholar</i>
2023-present	<i>JAMA Psychiatry</i>

Teaching

Trainees

2016	Elizabeth Tung, MD, General Internal Medicine Fellow, Section of General Internal Medicine, Department of Medicine, University of Chicago. Role: Master's thesis advisor.
2016	Olga Kantor, MD, General Surgery Resident, University of Chicago. Role: Master's thesis advisor.
2016-2019	Joyce Woo, MD, Pediatrics Resident, Comer Children's Hospital, University of Chicago. Role: Master's thesis advisor.
2018-2020	Lauren Kimmel, BS, Law Student, University of Michigan School of Law. Role: Research mentor.
2019-present	Amel Omari, Graduate Student, University of Michigan School of Public Health. Role: Research mentor.
2021-present	Caitlin Priest, Medical Student, University of Michigan Medical School. Role: Research mentor.
2021-present	Caroline Hogan, National Clinical Scholars Program Fellow, University of Michigan Medical School. Role: Fellowship mentor.
2022-present	Anu Warriar, PhD candidate in Health Management and Policy, University of Michigan School of Public Health. Role: PhD dissertation committee member.
2023-present	Joseph Ladines-Kim, MD, PhD, internal medicine/pediatrics resident, University of Michigan Medical School. Role: Research mentor.
2023-present	Joanne Constantine, PhD, postdoctoral fellow, Susan B. Meister Child Health and Evaluation Research Center. Role: Fellowship mentor.

Teaching Activities

2013	Harvard Kennedy School Teaching Fellow. Course: "Quantitative Analysis and Empirical Methods." One semester, 20 lectures, 50 Masters of Public Policy graduate students
2015-2017	Pritzker School of Medicine Guest Lecturer ("Health Insurance 101") Course: The American Health Care System. 1 lecture, 80 first-year medical students
2015-2017	Pritzker School of Medicine Guest Lecturer ("Regression Analysis") Course: Introduction to Medical Evidence. 2 lectures, 80 first-year medical students.
2018	Why should we care about low-value pediatric care? University of Michigan Department of Pediatrics Grand Rounds, Ann Arbor, MI, April 2018.
2018	Secondary data for pediatric health services research. Susan B. Meister Child Health Evaluation and Research Center, University of Michigan Medical School, October 2018.
2020	University of Michigan Pediatric Fellowship Seminar Series ("Why should we care about low-value pediatric care"?) 1 lecture, 5 fellows
2020	Pediatric outpatient antibiotic appropriateness, University of Michigan Division of General Pediatrics monthly meeting, September 2020
2021-present	Guest lecturer, CHEAR summer internship program ("Measuring and Improving the Quality of U.S. Opioid Prescribing"). University of Michigan Medical School. 1 session, 3 college students.
2022-present	Associate Director, CHEAR Health Services Research Fellowship
2023-present	Leadership Team, AHRQ T32 in Health Services Research, University of Michigan

Committee, Organizational, and Volunteer Services

Committees/Service

2017-present	Institute for Healthcare Policy and Innovation, University of Michigan, Member
2017-present	University of Michigan Injury Center, University of Michigan, Member
2018-present	Institute for Research on Women and Gender, University of Michigan, Faculty Affiliate
2018-present	Center for Study of Drugs, Alcohol, Smoking and Health, University of Michigan, Faculty Affiliate

2019-2020	Faculty Coordinator, CHEAR Health Services Research Seminar Series, Susan B. Meister Child Health and Evaluation Research Center, University of Michigan Medical School
2021-present	CHEAR Leadership Team, Susan B. Meister Child Health and Evaluation Research Center, University of Michigan Medical School
2021-present	Director, Michigan COVID-19 Research Program in Pediatrics
2023-present	Faculty Coordinator, CHEAR Methods Seminar Series, Susan B. Meister Child Health and Evaluation Research Center, University of Michigan Medical School
2023-present	Committee Member, COMFORT clinical practice guideline for management of pain in pregnant and peripartum women
2023-present	Co-Chair of Faculty Search Committee, CHEAR Center, University of Michigan Medical School
2023-present	Population Dynamics and Health Program, Institute for Social Research, University of Michigan, Faculty Affiliate
2023-present	Advisory Committee, Child Population Health Research and Health Services Research Task Force, Society for Pediatric Research

Volunteer services

2019-present	Abstract Reviewer, Pediatric Academic Societies Meeting
2019-present	Reviewer, Resident and Fellow Research Grant Program
2020-present	Abstract Reviewer, Pediatrics Research Day, University of Michigan Medical School
2020-present	Abstract Reviewer, AcademyHealth Annual Research Meeting
2022-present	Advisory Board, Society for Pediatric Research Child Population Health Services Research Task Force
2023-present	Advisory Board, AcademyHealth Child Health Interest Group

Presentations

Extramural invited presentations

Speaker

1. Defining and measuring overuse in pediatrics. Dartmouth University Department of Pediatrics Grand Rounds, Hanover, NH, October 2017.
2. Why should we care about low-value pediatric care? University of Chicago Advancing Pediatric Quality Symposium, Chicago, IL, November 2018.

3. Improving the safety of opioid prescribing to adolescents and young adults. Symposium co-chair and speaker, Pediatric Academic Societies 2019 Annual Meeting, Baltimore, MD, April 2019.
4. Why should we care about low-value pediatric care? Boston University Institute for Health System Innovation and Policy, November 2020.
5. Why should we care about low-value pediatric care? University of Southern California Medical School, January 2021.
6. Measuring and improving the quality of opioid prescribing to children and young adults. NIDA Clinical Trials Network Special Interest Group, November 2021.
7. Policy options to improve insulin affordability. Joslin Diabetes Center Grand Rounds, June 2022.
8. Measuring and improving the quality of U.S. opioid prescribing. O'Neill School of Public and Environmental Affairs, Indiana University, October 2022.
9. Why should we care about low-value pediatric care? Trinity Health Saint Joseph Mercy Department of Pediatrics Grand Rounds, Ann Arbor, MI, April 2023.

Panel

1. Policy options to improve drug affordability for children. Hot Topic Symposia Drug Pricing and Access to Medications: Impact on Child Health. Pediatric Academic Societies 2022 Annual Meeting, Denver, CO, April 2022.
2. Congressional testimony on H.R. 4712 (Fairness in Orphan Drug Exclusivity Act) before the U.S. House of Representatives House and Energy Committee, Health Subcommittee: "Improving Safety and Transparency in America's Food and Drugs", January 2020. <https://www.congress.gov/116/meeting/house/110423/witnesses/HHRG-116-IF14-Wstate-ChuaK-20200129.pdf>
3. Challenges of conducting timely, high-quality healthcare research during the COVID-19 pandemic. IQVIA Research Forum, October 2022.

Intramural Invited Presentations

Seminars

1. "Why should we care about low-value pediatric care?" National Clinical Scholars Program core seminar series lectures. 4 lectures, 12 fellows. July 2019-July 2022
2. "Understanding and Improving the U.S. Health Care System." Group Facilitator for University of Michigan Massive Open Online Course. 1 session, 30 health professional students, October 2019.
3. "Measuring and Improving the Quality of U.S. Opioid Prescribing." Guest lecturer, HMP 601: Healthcare Quality, Performance Measurement, and Improvement. 2 sessions, 45 master's students, April 2020-April 2021.

4. "Measuring and Improving the Quality of U.S. Opioid Prescribing." University of Michigan School of Public Health, WIDTH Forum, April 2021.
5. "Administrative Data for Health Services Research" National Clinical Scholars Program core seminar series. 1 lecture, 12 master's students and postdoctoral fellows, February 2023.
6. "Study Designs for Causal Inference in Health Services Research." Center for Healthcare Outcomes and Policy seminar series. 1 lecture, 15 faculty and fellows. March 2023.

Panels

1. "Endemic" Defined: Its Impact on You, Health Care, and Society, University of Michigan Medical School Well-Aware Event, March 2022

Selected media coverage

1. Levey N. Young adults healthier after passage of Obamacare, study finds. *LA Times*, June 17, 2014.
2. Schencker L. 1 in 10 kids got unneeded medical services in 2014, U of C study says. *Chicago Tribune*, December 8, 2016.
3. Rapaport L. Another look at the surge in EpiPen costs. *Reuters Health*. March 27, 2017.
4. Bhattacharjee, P. Doctors are still prescribing codeine for kids after tonsillectomy, despite FDA warning. *CNN*. November 16, 2017.
5. Newman K. Nearly 1 in 4 antibiotic prescriptions are inappropriate. *US News and World Report*, January 16, 2019.
6. Giardano R. Opioids are overprescribed for children who get their tonsils out, study finds. *Philadelphia Inquirer*. August 8, 2019.
7. Preidt R. Teen opioid users face same OD risks as adults. *US News and World Report*. December 16, 2019.
8. Jagannathan M. An alarming number of kids get unnecessary medical care, including antibiotics and cervical-cancer screenings. *MarketWatch*. Jan 8, 2020.
9. Reinberg S. 2 in 3 Parents Would Send Kids to School in Fall: Survey. *US News and World Report*. June 30, 2020.
10. Werner A. Surprise COVID-19 costs? Loopholes and mix-ups are leading to bills for thousands of dollars. *CBS This Morning*, July 10, 2020 (TV interview).
11. Della Cava M. Online school? In-person? How parents are making their own fall 2020 decisions as COVID-19 squabbles continue. *USA Today*. July 13, 2020.

12. Kliff S. A hospital forgot to bill her coronavirus test. It cost her \$1,980. *New York Times*. August 3, 2020.
13. Kliff S. The vaccines are supposed to be free. Surprise bills could happen anyway. *New York Times*. December 17, 2020.
14. Health Day News. Poll Finds Most U.S. Young People Take COVID Threat Seriously. April 18, 2021
15. C-SPAN [TV appearance]. Dr. Kao-Ping Chua on Cost of COVID-19 Hospitalization and Treatment. *Washington Journal*, June 14, 2021
16. Murez C. \$10,000: What new parents might pay for childbirth, even with insurance. *Health Day News*. June 17, 2021.
17. LaMotte S. "Surprise" hospital bills after childbirth are common, study says, but here is what to do. *CNN*. July 2, 2021.
18. Avery T. COVID-19 pandemic made it harder for Americans to pay medical bills, survey finds. *USA Today*. July 20, 2021.
19. Kliff S. Covid medical bills are about to get bigger. *New York Times*. September 2, 2021.
20. Jong Y. We have life-saving treatments for the opioid overdose epidemic. Here is why they often do not get used. *San Francisco Chronicle*. December 29, 2021.
21. Hiltzik M. A new study calculates the incredible cost of ivermectin stupidity. *LA Times*. Jan 14, 2022.
22. McPhillips D. COVID-19 hospitalizations average \$4,000 in out-of-pocket costs per visit, research says. *CNN*. February 26, 2022.
23. Edwards E, Bauer T, Thompson A. More families facing price shocks for lifesaving children's medications. *NBC News*. January 7, 2023.
24. The Today Show [TV appearance]. Dr. Kao-Ping Chua on out-of-pocket costs for epinephrine auto-injectors. January 21, 2023.

Bibliography

Peer-Reviewed Publications

1. **Chua KP**, Chun MM. Implicit scene learning is viewpoint dependent. *Perception & Psychophysics*. 2003;65(1):72-80. PMID: 12699310
2. Kelley TA, Chun MM, **Chua KP**. Effect of scene inversion on change detection of targets matched for visual salience. *J Vis*. 2003;3(1):1-5. PMID: 12678620
3. **Chua KP**, Gordon MB, Sectish TC, Landrigan CP. Effects of a night team system on resident sleep and work hours. *Pediatrics*. 2011;128(6):1142-1147. PMID: 22123867

4. **Chua KP**, Schuster MA, McWilliams JM. Differences in health care access and utilization between older adolescents and young adults with asthma. *Pediatrics*. 2013;131(5):892-901. PMID: 23610211. PMCID: PMC4074656
5. **Chua KP**, Sommers BD. Changes in health and medical spending among young adults under health reform. *JAMA*. 2014;311(23):2437-2439. PMID: 24938568
6. **Chua KP**, Neuman MI, McWilliams JM, Aronson PL. Association between clinical outcomes and hospital guidelines for cerebrospinal fluid testing in febrile infants aged 29-56 days. *J Pediatr*. 2015; 167:1340-1346.e9. PMID: 26477870. PMCID: PMC5535778
7. Sommers BD, **Chua KP**, Kenney JM, Long SK, McMorrow S. California's early coverage expansion under the Affordable Care Act: a county-level analysis. *HSR*. 2016; 51(3):825-845. PMID: 26443883. PMCID: PMC4874826
8. Tung EL, Baig AA, Laiteerapong N, Huang ES, **Chua KP**. Racial and ethnic disparities in diabetes screening between Asian Americans and other adults. *J Gen Intern Med*. 2016;32(4):423-429. PMID: 27848187. PMCID: PMC5377880
9. **Chua KP**, Schwartz AL, Volerman A, Conti RM, Huang ES. Use of low-value pediatric services among the commercially insured. *Pediatrics*. 2016; 138(6): e20161809. PMID: 27940698. PMCID: PMC5127068
10. **Chua KP**, Conti RM. Out-of-pocket spending among commercially insured patients for epinephrine autoinjectors between 2007 and 2014. *JAMA Intern Med*. 2017; 177(5):736-739. PMID: 28346591. PMCID: PMC5377880
11. Trueger NS, **Chua KP**, Hussain A, Liferidge AT, Pitts SR, Pines JM. Incorporating alternative care site characteristics into estimates of substitutable ED visits. *Med Care*. 2017; 55(7):693-697. PMID: 28498199
12. **Chua KP**, Shrime MG, Conti RM. Effect of FDA investigation on opioid prescribing to children after tonsillectomy/adenoidectomy. *Pediatrics*. 2017;140(6): e20171765. PMID: 29146621
13. **Chua KP**, Conti RM. Out-of-pocket spending on orphan drug prescriptions among commercially insured adults in 2014. *J Gen Intern Med*. 2019;34(3):338-340. PMID: 30324293
14. McCabe SE, Wilens TE, Boyd CJ, **Chua KP**, Voepel-Lewis T, Schepis TS. Age-specific risk of substance use disorders associated with controlled medication use and misuse subtypes in the United States. *Addict Behav*. 2019; 90:285-293. PMID: 30472537
15. **Chua KP**, Fischer MA, Linder JA. Appropriateness of outpatient antibiotic prescribing among privately insured US patients: ICD-10-CM based cross sectional study. *BMJ*. 2019;364: k5092. PMID: 30651273. PMCID: PMC6334180
16. Harbaugh CM, Lee JS, **Chua KP**, Kenney B, Iwashyna TJ, Englesbe MJ, Brummett CM, Bohnert AS, Waljee JF. Association between long-term opioid use in family members and persistent opioid use after surgery among adolescents and young adults. *JAMA Surg*. 2019; Feb 27: e185838. PMID: 30810738

17. **Chua KP**, Brummett CM, Conti RM, Haffajee RL, Prosser LA, Bohnert ASB. Assessment of prescriber and pharmacy shopping in the family members of patients prescribed opioids. *JAMA Netw Open*. 2019; 2(5): e193673. PMID: 31074819.
18. **Chua KP**, Harbaugh CM, Brummett CM, Bohm LA, Cooper KA, Thatcher AI, Brenner MJ. Association of perioperative opioid prescriptions with risk of complications after tonsillectomy in children. *JAMA Otolaryngol Head Neck Surg*. 2019; 145(10):911-918. PMID: 31393537. PMCID. PMC6692671.
19. Woo JL, Anderson BR, Gruenstein D, Conti RM, **Chua KP**. Minimum travel distance among publicly insured infants with severe congenital heart disease: potential impact of in-state restrictions. *Pediatr Cardiol*. 2019; 40(8): 1559-1608. PMID: 31463514. PMCID: PMC6851488.
20. **Chua KP**, Brummett CM, Conti RM, Bohnert ASB. Association of opioid prescribing patterns with prescription opioid overdose in adolescents and young adults. *JAMA Pediatr*. 2020; 174(2): 141-148. PMID: 31841589. PMCID: PMC6990690
21. Agarwal S, Bryan JD, Hu HM, Lee JS, **Chua KP**, Haffajee RL, Brummett CM, Engelsbe MJ, Waljee JF. Association of state opioid duration limits with postoperative opioid prescribing. *JAMA Netw Open*. 2019; 2(12): e1918361. PMID: 31880801. PMCID: PMC6991309.
22. **Chua KP**, Schwartz AL, Volerman A, Conti RM, Huang ES. Differences in the receipt of low-value services between publicly and privately insured children. *Pediatrics*. 2020; 145(2): e20192325. PMID: 31911477. PMCID: PMC6993279.
23. Schuiteman S, **Chua KP**, Chang T. Self-management of health care among youth: implications for policies on transition of care. *J Adol Health*. 2020; 66(5): 616-622. PMID: 32113903.
24. Harbaugh CM, Vargas G, Sloss KR, Bohm LA, Cooper KA, Thatcher AL, Zopf DA, **Chua KP**, Waljee JF, Gadepalli SK. Association of Opioid Quantity and Caregiver Education with Pain Control after Pediatric Tonsillectomy. *Otolaryngol Head Neck Surg*. 2020 May; 162(5): 746-743. PMID: 32204656
25. Kimmel L, Conti RM, Volerman A, **Chua KP**. Pediatric orphan drug indications: 2010-2018. *Pediatrics* 2020; 145(4): e20193128. PMID: 32127360. PMCID: PMC7111489.
26. **Chua KP**, Lee JM, Conti RM. Out-of-pocket spending for insulin and other health care services among privately insured patients with type 1 diabetes. *JAMA Intern Med*. 2020; 180(7):1012-1014. PMID: 32478819. PMCID: PMC7265118.
27. **Chua KP**, Linder JA. Prevalence of inappropriate antibiotic prescribing by antibiotic among privately and publicly insured non-elderly US patients, 2018. *JGIM*. 2021; 36(9): 2861-2864. Epub 2020 Oct 1. PMID: 33006082
28. **Chua KP**, Conti RM. Trends in orphan drug spending and out-of-pocket spending among U.S. children, 2013-18. *Health Affairs*. 2020; 39(10): 1806-1811. PMID: 33017253; PMCID: PMC7968887

29. **Chua KP**, Lee JM, Conti RM. Potential changes in insulin out-of-pocket spending under cost-sharing caps among pediatric patients with type 1 diabetes. *JAMA Pediatr.* 2021; 175(1):90-92. PMID: 32716507; PMCID: PMC7385670.
30. **Chua KP**, Dejonckheere M, Reeves SL, Tribble AC, Prosser LA. Factors associated with school attendance plans and support for COVID-19 risk mitigation measures among parents and guardians. *Acad Ped.* 2021; 21(4): 684-693. PMID: 33249257.
31. **Chua KP**, Conti RM. Out-of-Pocket Spending for Influenza Hospitalizations in Medicare Advantage. *AJPM.* 2021; 60(4):537-541. PMID: 33612337; PMCID: PMC7890338.
32. **Chua KP**, Hu H, Waljee JF, Brummett CM, Nalliah R. Opioid prescribing patterns by dental procedure among US privately and publicly insured patients, 2013 through 2018. *JADA.* 2021; 152(4):309-317. PMID: 33637299; PMCID: PMC8118387.
33. **Chua KP**, Kimmel L, Conti RM. Spending for orphan indications among top-selling orphan drugs approved to treat common diseases. *Health Affairs.* 2021; 40(3): 453-460. PMID: 33646878; PMCID: PMC8011952.
34. **Chua KP**, Hu H, Waljee JF, Nalliah RP, Brummett CM. Persistent opioid use associated with dental opioid prescriptions among publicly and privately insured US patients, 2014 to 2018. *JAMA Network Open.* 2021; 4(4): e216464. PMID: 33861332; PMCID: PMC8052591.
35. Dejonckheere M, Waselewski M, Frank A, Amaro X, **Chua KP**. Views on COVID-19 and use of face coverings among U.S. Youth. *J Adol Health.* 2021; 68(5): 873-881. PMID: 33896552; PMCID: PMC8061118.
36. **Chua KP**, Kenney B, Waljee JF, Nalliah RP, Brummett CM. Dental opioid prescriptions and overdose risk in patients and their families. *Am J Prev Med.* 2021; 61(2):165-173. *PM.* PMID: 33975766. PMCID: PMC8319034.
37. **Chua KP**, Fendrick AM, Conti RM, Moniz MM. Out-of-pocket spending for deliveries and newborn hospitalizations among the privately insured. *Pediatrics.* 2021; e2021050552. PMID: 34140392
38. **Chua KP**, Fendrick AM, Conti RM, Moniz MM. Prevalence and magnitude of potential surprise bills for childbirth. *JAMA Health Forum.* 2021; 2(7): e211460. PMID: 35977212. PMCID: PMC8796895.
39. **Chua KP**, Volerman A, Conti RM. Prescription drug dispensing to U.S. children during the COVID-19 Pandemic. *Pediatrics.* 2021; e211460. PMID: 34285080. PMCID: PMC8344340.
40. **Chua KP**, Brummett CM, Ng S, Bohnert ASB. Association Between Receipt of Overlapping Opioid and Benzodiazepine Prescriptions from Multiple Prescribers and Overdose Risk. *JAMA Netw Open.* 2021;4(8): e2120353. PMID: 34374769. PMCID: PMC8356065.
41. **Chua KP**, Brummett CM, Conti RM, Bohnert ASB. Opioid Prescribing to US Children and Young Adults in 2019. *Pediatrics.* 2021; 148(3):e2021051539. PMID: 34400571. PMCID: PMC8778996.

42. **Chua KP**, Conti RM, Becker NV. Assessment of Out-of-Pocket Spending for COVID-19 Hospitalizations in the U.S. in 2020. *JAMA Netw Open*. 2021;4(10): e2129894. PMCID: PMC8524307. PMID: 34661662
43. **Chua KP**, Conti RM. Prescriptions for Codeine or Hydrocodone Cough and Cold Medications to US Children and Adolescents Following US Food and Drug Administration Safety Communications. *JAMA Netw Open*. 2021; 1(4:11): e2134142. PMID: 34762115. PMCID: PMC8586901.
44. **Chua KP**, Dahlem CH, Nguyen TD, Brummett CM, Conti RM, Dora-Laskey AD, Kocher KE. Naloxone and Buprenorphine Prescribing Following U.S. Emergency Department Visits for Suspected Opioid Overdose: August 2019-April 2021. *Ann Emer Med*. 2022; 79(3):225-236. PMID: 34802772
45. **Chua KP**, Perrone J, Redding LE, Brummett CM, Bahl S, Bohnert AS. Trends in the number of patients linked to potential vet-shopping behavior in the United States (2014-2019). *Am J Vet Res*. 2021; 83(2):147-152. PMID: 34941568
46. **Chua KP**, Conti RM, Becker NV. U.S. insurer spending on ivermectin prescriptions for COVID-19. *JAMA*. 2022 Feb 8;327(6):584-587. PMID: 35024763.
47. **Chua KP**, Conti RM, Becker NV. Trends in and Factors Associated with Out-of-Pocket Spending for COVID-19 Hospitalizations from March 2020 to March 2021. *JAMA Netw Open* 2022 Feb 1;5(2): e2148237. PMCID: PMC8845007. PMID: 35157059.
48. **Chua KP**, Waljee JF, Gunaseelan V, Nalliah RP, Brummett CM. Distribution of Opioid Prescribing and High-Risk Prescribing among U.S. Dentists in 2019. *AJPM*. 2022 Mar;62(3):317-325. PMID: 35190099. PMCID: PMC8867916.
49. **Chua KP**, Conti RM, Becker NV. Out-of-pocket spending for health care after COVID-19 hospitalization. *Am J Manag Care*. 2022;28(8):398-402. PMID: 35981125.
50. Volerman A, Pelczar A, Conti RM, Ciaccio C, **Chua KP**. Association between dispensing of low-value oral albuterol and removal from Medicaid preferred drug lists. *BMC Health Serv Res* 2022;22(1)562. PMID: 35473608. PMCID: PMC9044602.
51. Levensgood TW, Aronsohn A, **Chua KP**, Conti RM. Dispensing of HIV and HCV antivirals during COVID-19: an interrupted time series analysis of U.S. national data. *Am J Prev Med*. 2022; 63(4): 532-542. PMIC: 35738958; PMCID: PMC9119965.
52. **Chua KP**, Waljee JF, Smith MA, Bahl S, Nalliah RP, Brummett CM. Estimation of the prevalence of delayed dispensing among opioid prescriptions from US surgeons and dentists. *JAMA Netw Open*. 2022 May 2;5(5): e2214311. PMID: 35622363. PMCID: PMC9142869.
53. Nguyen TD, **Chua KP**, Andraka-Christou B, Bradford WD, Simon K. Trends in buprenorphine coverage and prior authorization requirements in US commercial formularies, 2017-2021. *JAMA Health Forum*. 2022;3(7): e221821. PMID:PM35977219.
54. **Chua KP**, Conti RM. Out-of-pocket spending on epinephrine auto-injectors among the privately insured, 2015-2019. *JGIM*. 2022 Jul 11. PMID: 35819685.

55. **Chua KP**, Thorne MC, Ng S, Donahue M, Brummett CM. Association between default number of opioid doses in electronic health record systems and opioid prescribing to adolescents and young adults undergoing tonsillectomy. *JAMA Netw Open*. 2022;5(6): e2219701. PMID: 35771572. PMCID: PMC9247741.
56. Sharifi M, Goodman AB, **Chua KP**. Assessment of underuse and overuse of screening tests for co-occurring conditions among children with obesity. *JAMA Netw Open*. 2022 Jul 1;5(8): e2222101. PMID: 38534247. PMCID: PMC92843828.
57. Omari A; Reeves SL, Prosser LA, Creary MS, Ahmad A, **Chua KP**. Usability of NewSTEPs Data for Assessing the Characteristics of Infants with Newborn Screening Disorders. *Int. J. Neonatal Screen*. 2022, 8, 42. PMID: 35892472. PMCID: PMC9326755.
58. Guzman A, Brown T, Lee JY, Fischer MA; Friedberg MW, **Chua KP**, Linder JA. Look-back and look-forward durations and the apparent appropriateness of ambulatory antibiotic prescribing. *Antibiotics*. 2022; 11(11):1554. PMID: 36358209. PMCID: PMC9686988.
59. Howard R, Brown CS, Lai Y-L, Gunaseelan V, **Chua KP**, Brummett CM, Engelsbe M, Waljee JF, Bicket MC. The association of postoperative opioid prescriptions with patient outcomes. *Ann Surg*. 2022; 276(6):e1076-e1082. PMID: 34091508.
60. Priest CR, Waljee JF, Bicket MC, Hu HM, **Chua KP**. Comparison of Opioids Prescribed by Advanced Practice Clinicians vs Surgeons After Surgical Procedures in the US. *JAMA Netw Open*. 2023 Jan 3;6(1):e2249378. doi: 10.1001/jamanetworkopen.2022.49378. PMID: 36598786.
61. **Chua KP**, Nguyen T, Waljee JF, Nalliah RP, Brummett CM. Association between state opioid prescribing limits and duration of opioid prescriptions from dentists. *JAMA Netw Open*. 2023;6(1):e2250409. PMID: 36630136. doi:10.1001/jamanetworkopen.2022.50409.
62. Becker NV, Seelye S, **Chua KP**, Echevarria K, Conti RM, Prescott HC. Dispensing of Ivermectin From Veterans Administration Pharmacies During the COVID-19 Pandemic. *JAMA Netw Open*. 2023;6(2):e2554859. doi:10.001/jamanetworkopen.2022.54859.
63. Waljee JF, Gunaseelan V, Bicket MC, Brummett CM, **Chua KP**. Safety and Distribution of Opioid Prescribing among U.S. Surgeons in 2019. *Ann Surg*. 2023 Jan 19. doi:10.1097/SLA.0000000000005802. PMID: 36727966.
64. Reeves SL, Ng S, Dombkowski KJ, Raphael JL, **Chua KP**. TCD screening and spending among children with sickle cell anemia. *AJMC*. 2023; 29(3):e79-e84. PMID: 36947020.
65. Carlton EF, Becker NV, Moniz MH, Scott JW, Prescott HC, **Chua KP**. Out-of-pocket spending for non-birth-related hospitalizations of privately insured US children, 2017 to 2019. *JAMA Pediatrics*. 2023. doi:10.1001/jamapediatrics.2023.0130. PMID: 36972040. PMCID: PMC10043803.
66. **Chua KP**, Nguyen TD, Zhang J, Conti RM, Lagisetty P, Bohnert ASB. Trends in Buprenorphine Initiation and Retention in the United States, 2016-2022. *JAMA*. 2023;329(16):1402-1404. doi:10.1001/jama.2023.1207. PMID: 370976363. PMCID: PMC10130945.

67. **Chua KP**, Thorne MC, Brummett CM, DeJonckheere M. Surgeons' perspectives on changing the default number of doses for opioid prescriptions in electronic health record systems. *JAMA Netw Open*. 2023 May 1;6(5):e2315633. PMID: 37234007. PMCID: PMC10220515.
68. Sudharsan S, Gunaseelan V, Jankulov A, **Chua KP**, Engelsbe MF, Waljee JF, Bicket MA, Brummett CM. Association between payer type and risk of persistent opioid use after surgery. *Ann Surgery*. June 19, 2023. doi: 10.1097/SLA.0000000000005937.
69. Brown T, Lee J, Guzman A, Fischer MA, Friedberg MW, **Chua KP**, Linder JA. Prevalence and appropriateness of in-person versus not-in-person ambulatory antibiotic prescribing in an integrated academic health system: a cohort study. *PLoS One*. 2023 Jul 27;18(7):e0289303. Doi: 10.1371/journal.pone.0289303. PMID: 37498818.

Viewpoints

1. **Chua KP**, Conti RM, Freed GA. Appropriately framing child health care spending – a pre-requisite for value improvement. *JAMA*. 2018; 319(11):1087-1088. PMID: 29482195
2. **Chua KP**, Brummett CM, Waljee JF. Opioid prescribing limits for acute pain: potential problems with design and implementation. *JAMA*. 2019; 321(7):643-644. PMID: 30703214
3. **Chua KP**, Kimmel L, Brummett CM. Disappointing early results for opioid prescribing limits. *JAMA Surg*. 2020; 155(5):375-376. PMID: 32159750.
4. **Chua KP**, Conti RM. Policy implications of orphan drug designation for remdesivir to treat COVID-19. *JAMA Intern Med*. 2020; 180(10): 1273-1274. PMID: 32804187
5. **Chua KP**. The importance of challenges of reducing low-value care in children. *Am Fam Physician*. 2022 Mar;105(3):226-227. PMID: 35289572.

Letters

1. **Chua KP**, Brummett CM, Waljee JF. Limiting Opioid Prescribing – Reply. *JAMA*. 2019; 322(2):171-172. PMID: 31287520. PMCID: PMC7427630.
2. **Chua KP**, Harbaugh CM, Brenner MJ. Opioid prescriptions and risk of complications after tonsillectomy in children: reply. *JAMA Otolaryngol Head Neck Surg*. 2020 146(2):209. PMID: 32077928
3. **Chua KP**, Brummett CM, Bohnert ASB. Estimates from heterogeneous studies of opioid-related morbidity. *JAMA Pediatr*. 2021; 175(5):531-532. PMID: 33523123.

Online materials and reports

1. **Chua KP**. The challenges of developing healthcare quality measures based on ICD-10-CM Codes. *BMJ Opinion*, January 16, 2019.
2. **Chua KP**, Conti RM. Orphan drugs for opioid use disorder: an abuse of the Orphan Drug Act. *Health Affairs Blog*, July 26, 2019.

3. **Chua KP**, Conti RM. Revocation of orphan drug designation for extended-release buprenorphine injection: implications and next steps. *Health Affairs Blog*, March 5, 2020.
4. **Chua KP**, Conti RM. Despite the Families First Coronavirus Response Act, COVID-19 evaluation is not necessarily free. *Health Affairs Blog*, April 17, 2020.
5. **Chua KP**, Kimmel L. Opioid prescribing limits for acute pain: IHPI Policy Brief. May 13, 2020.
6. **Chua KP**, Conti RM. How orphan drug policy could deter access to COVID-19 treatments. *Health Affairs Blog*, June 25, 2020.
7. **Chua KP**, Dejonckheere M, Reeves SL, Tribble A, Prosser LA. Plans for school attendance and support for COVID-19 risk mitigation measures among parents and guardians of public-school children in Illinois, Michigan, and Ohio. IHPI Policy Brief. June 26, 2020.
8. **Chua KP**. For pediatric primary care providers, federal relief funds during the pandemic may be inadequate. *Health Affairs Blog*, July 14, 2020.
9. **Chua KP**. Most opioid prescribing by dentists could be safely eliminated. *Public Health Post*. July 12, 2021.
10. **Chua KP**. Prescription Drug Monitoring Program Laws: Reporting, Mandates & Access, 2014-2019. Prescription Drug Abuse Policy System. <https://pdaps.org/datasets/pdmp-mandates>
11. **Chua KP**. State laws limiting prescriptions for opioid analgesics. <https://pdaps.org/datasets/opioid-analgesics-prescribing-limits>
12. **Chua KP**. Informed consent for opioid prescribing laws. Prescription Drug Abuse Policy System. <https://pdaps.org/datasets/informed-consent-for-opioid-prescribing-laws>
13. Nguyen TD, **Chua KP**, Jiao A, Lee S, Lagisetty P, Bohnert ASB, Kocher K. Use of Medications for Opioid Use Disorder After Overdoses Among Medicaid Enrollees. IHPI Policy Brief. September 18, 2023.

Op-eds

1. **Chua KP**, Conti RM. Congress must do more to lower out-of-pocket costs for coronavirus detection. *Detroit Free Press*, April 25, 2020.
2. **Chua KP**, Cifu AS, Conti RM. Spike in prescribing dexamethasone to Covid-19 patients may do more harm than good. *STAT News*, November 2, 2020
3. **Chua KP**, Linder JA. Stop overprescribing ineffective antibiotics for COVID-19. *The Detroit News*, April 13, 2021.
4. **Chua KP**, Conti RM. The Winners and Losers of the Proposed Insulin Cost Cap. *MedPage Today*. April 8, 2022.

5. **Chua KP**, Conti RM. Improving Insulin Affordability Beyond Cost-Sharing Caps. *MedPage Today*. April 14, 2022.

Abstracts/posters

Oral presentations

1. **Chua KP**, Gordon MB, Sectish TC, Landrigan CP. Effects of implementing a night team system on resident sleep and work hours. Platform presentation, Pediatric Academic Societies 2010 Annual Meeting, Vancouver, British Columbia, Canada, May 2010.
2. **Chua KP**, Trueger NS, Hussain A, Liferidge AT, Pitts SR, Pines JM. Prevalence, and predictors of substitutable ED visits by children. Platform presentation, Pediatric Academic Societies 2016 Annual Meeting, Boston, MA, May 2016.
3. **Chua KP**, Brummett CM, Conti RM, Haffajee RL, Prosser LA, Bohnert ASB. Doctor and pharmacy shopping among the family members of children prescribed opioids. Platform presentation, Pediatric Academic Societies 2019 Annual Meeting, Baltimore, MD, April 2019.
4. **Chua KP**, Conti RM. Orphan drug spending on orphan indications among the commercially insured. Platform presentation, AcademyHealth Annual Research Meeting, Washington, DC, June 2019
5. **Chua KP**, Linder JA. Prevalence of Inappropriate or Off-Label Azithromycin Prescribing to U.S. Children in 2017. Platform presentation, Pediatric Academic Societies 2020 Annual Meeting, Philadelphia, PA (conference canceled due to COVID-19 but presentation given online through webinar on August 7, 2020).
6. Sharifi M, **Chua KP**. Underuse and Overuse of Screening Tests for Co-Morbidities among Children with Obesity. Platform presentation, Pediatric Academic Societies 2020 Annual Meeting, Philadelphia, PA (conference canceled due to COVID-19).
7. Dalziel K, **Chua KP**, Ryan AM, Freed GL, Levy H, Ayanian JZ. Association Between ACA Medicaid Expansion and Coverage for Low-Income Children. Platform presentation, Pediatric Academic Societies 2020 Annual Meeting, Philadelphia, PA (conference canceled due to COVID-19).
8. **Chua KP**, Lee JM, Conti RM. Out-of-pocket spending for insulin and other health care services among privately insured patients with type 1 diabetes. Platform presentation, AcademyHealth 2020 Annual Research Meeting, Boston, MA (conference canceled due to COVID-19)
9. **Chua KP**, Fendrick AM, Conti RM, Moniz MH. Impact of Federal Protections Against Surprise Bills on Financial Liability for Childbirth. Platform presentation, Pediatric Academic Societies 2021 Annual Meeting (conference held virtually due to COVID-19), May 2021

10. **Chua KP**, Volerman A, Conti RM. Changes in Prescription Drug Dispensing to U.S. Children During the COVID-19 Pandemic. AAP Presidential Plenary, Pediatric Academic Societies 2021 Annual Meeting (conference held virtually due to COVID-19), May 2021
11. **Chua KP**, Brummett CM, Conti RM, Bohnert ASB. U.S. Opioid Prescribing Before and During the COVID-19 Pandemic. Platform presentation, AcademyHealth 2021 Annual Research Meeting (conference held virtually due to COVID-19), June 2021.
12. **Chua KP**, Brummett CM, Conti RM, Bohnert ASB. Pediatric Opioid Prescribing in 2019. Platform presentation, AcademyHealth 2021 Annual Research Meeting (conference held virtually due to COVID-19), June 2021.
13. **Chua KP**, Conti RM, Becker NV. Mortality in the Families of U.S. Children During the COVID-19 Pandemic. Pediatric Academic Societies 2022 Annual Meeting, Denver, CO, April 2022
14. **Chua KP**, Nguyen T, Waljee J, Conti RM, Bohnert ASB, Brummett CM. Association Between State Limits and Opioid Prescribing to U.S. Children. Pediatric Academic Societies 2022 Annual Meeting, Denver, CO, April 2022.
15. **Chua KP**, Conti RM, Becker NV. Mortality in the Families of U.S. Children During the COVID-19 Pandemic. AcademyHealth Annual Research Meeting, Washington, DC, June 2022.
16. **Chua KP**, Nguyen T, Waljee J, Conti RM, Bohnert ASB, Brummett CM. Association Between State Limits and Opioid Prescribing to U.S. Children. AcademyHealth Annual Research Meeting, Washington, DC, June 2022.
17. **Chua KP**, Fischer MA, Rahman M, Linder JA, Association Between the COVID-19 Outbreak and Antibiotic Appropriateness in Children. Pediatric Academic Societies 2023 Annual Meeting, Washington DC, May 2022.
18. **Chua KP**, Volerman A, Zhang J, Hua J, Conti RM. Association Between the COVID-19 Outbreak and Antidepressant Use in Adolescents and Young Adults. Pediatric Academic Societies 2023 Annual Meeting, Washington DC, May 2022.

Posters

1. **Chua KP**, Conti RM. Opportunities to reduce codeine prescriptions to children. Pediatric Academic Societies 2018 Annual Meeting, Baltimore, MD, April 2019. Toronto, Canada.
2. **Chua KP**, Conti RM, Lee S, Mangione-Smith R. Disparities in chronic disease prevalence between publicly and commercially insured children. Pediatric Academic Societies 2019 Annual Meeting, Baltimore, MD, April 2019.
3. **Chua KP**, Schwartz AL, Volerman A, Conti RM, Huang ES. Differences in low-value pediatric service use between publicly and commercially insured children. Pediatric Academic Societies 2019 Annual Meeting, Baltimore, MD, April 2019.

4. **Chua KP**, Conti RM, Lee S, Mangione-Smith R. Claims-based algorithm to identify children with individual chronic conditions. AcademyHealth Annual Research Meeting, Washington, DC, June 2019
5. **Chua KP**, Schwartz AL, Volerman A, Conti RM, Huang ES. Differences in low-value pediatric service use between publicly and commercially insured children. AcademyHealth Annual Research Meeting, Washington, DC, June 2019
6. Ng S, Dombkowski K, Raphael J, **Chua KP**, Reeves SL. Patterns of primary care, specialty care, and preventive service use among children with sickle cell anemia. Pediatric Academic Societies 2021 Annual Meeting (conference held virtually due to COVID-19)
7. **Chua KP**, Nguyen TD, Zhang J, Conti RM, Lagisetty P, Bohnert ASB. Trends in Buprenorphine Initiation and Retention Among Adolescents and Young Adults in the United States, 2016-2022. Pediatric Academic Societies 2023 Annual Meeting, Washington, DC, May 2023.