Kao-Ping Chua, MD, PhD
Associate Professor of Pediatrics (Tenure-Track)
Susan B. Meister Child Health Evaluation and Research Center
University of Michigan Medical School
2800 Plymouth Road, NCRC Building 16, SPC 2800, Room G026W, Ann Arbor, Michigan 48109-5456
Phone: 734-615-6189
Fax: 734-232-1400
E-mail: chuak@med.umich.edu
ORCID: 0000-0002-4081-272X
eRA Commons: chuak

Education and Training

Education

08/1998-05/2002	BS in Neuroscience, *summa cum laude*, 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

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

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

Licensure

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
10/2019-08/2024	Assistant Professor of Pediatrics, University of Michigan Medical School, Ann Arbor, MI
09/2020-08/2024	Assistant Professor of Health Policy and Management, University of Michigan School of Public Health, Ann Arbor, MI
09/2024-present	Associate Professor of Pediatrics, University of Michigan Medical School, Ann Arbor, MI
09/2024-present	Associate Professor of Health Policy and Management, University of Michigan School of Public Health, Ann Arbor, MI
04/2025-present	Director, Susan B. Meister Child Health Evaluation and Research Center, University of Michigan Medical School, Ann Arbor, MI
06/2025-present	Marilyn Fisher Branch Research Professor of Child Health Policy, University of Michigan Medical School

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

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.

Research Interests

I am a practicing primary care pediatrician with interdisciplinary doctoral training in the methods used in health policy evaluation. A major area of my research is the opioid epidemic. I have conducted numerous national studies describing the epidemiology, safety, and distribution of opioid prescribing to pediatric patients, dental patients, and surgical patients. I have also conducted quasi-experimental studies that have evaluated the effects of opioid prescribing limits and prescription drug monitoring program use mandates on opioid prescribing, the effect of cost-sharing on naloxone dispensing, and the effect of eliminating the buprenorphine waiver requirement on buprenorphine dispensing.

A second area of my research is out-of-pocket spending. My studies have assessed the magnitude of out-of-pocket spending for epinephrine auto-injectors, insulin, orphan drugs, childbirth, and COVID-19 hospitalizations. My work on out-of-pocket spending for epinephrine auto-injectors resulted in a television appearance on *The Today Show.*

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

Woodson Award (University of Michigan Medical School)
Insurance-Related Factors Affecting GLP-1 Receptor Agonist Dispensing to U.S. Adolescents and Young Adults
PI: Kao-Ping Chua
12/2024-11/2026
Role: PI
$50,000

Institute for Healthcare Policy and Innovation (University of Michigan)
Can North Carolina's Medicaid Expansion Reverse the Effects of Medicaid Unwinding on Buprenorphine Use?
PI: McCullough
9/1/2024-8/31/2025
Role: Co-I
$15,000

Patient-Centered Outcomes Research Institute
CARES for Kids: Comparing Analgesics Regimen Effectiveness and Safety

PI: Mark Bicket (MPI), Lorraine Kelley-Quon (MPI)
04/2024-06/30/2029
Role: Co-I
$7,027,353

National Institute on Drug Abuse (R01DA057943)
The Impact of Surgery on Outcomes for Patients Taking Medications for Opioid Use Disorder
PI: Thuy Nguyen (MPI), Mark Bicket (MPI)
09/2023-06/2028
Role: Co-I
$3,347,729

Benter Foundation (2023-15)
U.S. Dental Opioid Prescribing: Motivating and Enacting Improvements.
PI: Kao-Ping Chua (MPI), Chad Brummett (MPI)
07/2023-06/2025
Role: MPI
$668,219

National Institute on Drug Abuse (R01DA056438)
Insurance-Related Barriers to Medications for Opioid Use Disorder in Private and Medicaid plans
PI: Kao-Ping Chua (MPI), Thuy Nguyen (MPI)
09/2022-08/2026
Role: MPI/contact PI
$2,512,669

National Institute on Drug Abuse (R01DA057284)
Evaluating Policy Interventions to Decrease Excessive and Risky Perioperative Opioid Prescribing
PI: 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
PI: Sarah Reeves
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
PI: Kao-Ping Chua
03/2021-06/2025
Role: PI
$132,500

Past Grants

National Institute on Drug Abuse (K08DA048110)
Using Default Opioid Prescription Settings to Limit Excessive Opioid Prescribing to Adolescents and Young Adults
PI: Kao-Ping Chua
05/2019-04/2024
Role: PI
$911,520

Benter Foundation
U.S. Dental Opioid Prescribing: Epidemiology and Policy Interventions
PI: 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 *Annals of Internal Medicine*
2023	Top-Scoring Abstract in Health Services Research by Faculty Member, 2023 Pediatric Academic Societies Meeting
2024	Nemours Child Health Services Research Award, AcademyHealth
2025	Top Reviewer for *JAMA Network Open*

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 Positions

2025-present	Associate Editor for Health Policy, *Pediatrics*

Editorial Board

2019-2022	*Medical Care Research and Review*
2022-present	*Pediatrics*

Journal Reviewer

2014-present	*Milbank Quarterly*
2014-present	*Journal of Adolescent Health*
2015-present	*Health Services Research*
2015-present	*The Journal of Pediatrics*
2016-present	*Medical Care*
2017-present	*Public Health Reports*
2017-present	*American Journal of Public Health*
2018-present	*Medical Care Research and Review*
2018-present	*Academic Pediatrics*
2018-present	*Pediatrics*
2018-present	*Journal of Addictive Diseases*
2018-present	*JAMA Network Open*
2019-present	*JAMA*
2019-present	*Addiction*
2019-present	*BMJ*
2019-present	*Journal of the American Academy of Child and Adolescent Psychiatry*
2019-present	*PLoS Medicine*
2019-present	*JAMA Pediatrics*
2020-present	*BMC Health Services Research*
2020-present	*Health Affairs*
2020-present	*JAMA Internal Medicine*
2020-present	*Clinical Infectious Diseases*
2021-present	*Pain*
2021-present	*Annals of Internal Medicine*
2021-present	*JAMA Health Forum*
2021-present	*American Journal of Preventive Medicine*
2021-present	*Drug and Alcohol Dependence*
2021-present	*Lancet*
2022-present	*Journal of General Internal Medicine*
2022-present	*JAMA Surgery*
2022-present	*JAC - Antimicrobial Resistance*

2023-present	*Surgery*
2023-present	*Health Affairs Scholar*
2023-present	*JAMA Psychiatry*
2023-present	*Pain Management*
2024-present	*New England Journal of Medicine*

Teaching

Trainees

Residents, clinical fellows, postdoctoral fellows

2016	Elizabeth Tung, MD Training position: General internal medicine fellow, University of Chicago. Role: Master's thesis advisor Notes: Completed master's thesis, co-authored publication #8
2016	Olga Kantor, MD Training position: General surgery resident, University of Chicago. Role: Master's thesis advisor Notes: Completed master's thesis
2016-2019	Joyce Woo, MD Training position: Pediatrics resident, University of Chicago Role: Master's thesis advisor, career advisor Notes: Completed master's thesis, co-authored publication #19, continue to serve as career advisor
2021-2023	Caroline Hogan, MD, MS Training position: Postdoctoral fellow, Susan B. Meister Child Health and Evaluation Research Center and National Clinical Scholars Program, University of Michigan Medical School. Role: Fellowship mentor. Notes: Received 2023 Susan B. Meister Award for Best Paper in Child Health Policy, co-authored manuscript in preparation
2023-2024	Joseph Ladines-Lim, MD, PhD Training position: Internal medicine and pediatrics resident, University of Michigan Role: Research mentor Notes: Co-authored publications #76 and #78
2023-present	Joanne Constantin, PhD Training position: Postdoctoral fellow, Susan B. Meister Child Health and Evaluation Research Center, University of Michigan Medical School Role: Fellowship mentor Notes: Co-authored manuscript #89
2024-present	Nina Hill, MD

Training position: Postdoctoral fellow, Susan B. Meister Child Health and Evaluation Research Center, University of Michigan Medical School
Role: Fellowship mentor
Notes: platform presentation at 2025 Pediatric Academic Societies Meeting and AcademyHealth Annual Research Meeting, co-authored manuscript #94

2025-present

Kevin Goshenour, MD
Training position: Master's student in biostatistics, University of Michigan
Role: Scholarly Oversight Committee member

Students

2018-2020

Lauren Kimmel, JD
Training position: Undergraduate student, University of Michigan.
Role: Research mentor
Notes: co-authored manuscripts #25, #33, viewpoint #3, policy sprint. Completed FDA internship focused on orphan drug policy, based on work we conducted together

2019-2020

Amel Omari, PhD
Training position: PhD candidate in Health Behavior and Health Equity, University of Michigan School of Public Health.
Role: Research mentor
Notes: Co-authored manuscript #57

2021-2022

Caitlin Priest, MD
Training position: Medical student, University of Michigan Medical School.
Role: Research mentor
Notes: Co-authored manuscript #60

2022-2024

Anu Warrier, PhD
Training position: PhD candidate in Health Management and Policy, University of Michigan School of Public Health.
Role: PhD dissertation committee member
Notes: successful dissertation defense, provided guidance on analysis of T-MSIS Analytic Files (Medicaid claims)

2023-2024

Jason Zhang, BS
Training position: Undergraduate student, University of Michigan
Role: Research mentor
Notes: co-authored manuscripts #66, #71, #72, #73

2024-present

Rukmini Nallamothu
Training position: Undergraduate student, University of Michigan
Role: Research mentor
Notes: co-authored manuscript in preparation

2024-present	Scarlett He, MS Training position: Master's student in biostatistics, University of Michigan Role: Research mentor Notes: co-authored manuscript #81, #85, #87

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, 4 undergraduate students.
2022-present	Co-Director, CHEAR Fellowship (pediatric health services research fellowship)
2023-2024	Leadership Team, AHRQ T32 in Health Services Research, University of Michigan
2024	Changes in Mental Healthcare Utilization among Adolescents and Young Adults During the COVID-19 Pandemic. University of Michigan Division of General Pediatrics monthly meeting, July 2024.

Committee, Organizational, and Volunteer Services

Institutional

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
2019-present	Reviewer, Resident and Fellow Research Grant Program
2020-present	Abstract Reviewer, Pediatrics Research Day, University of Michigan Medical School
2021-present	CHEAR Leadership Team, Susan B. Meister Child Health and Evaluation Research Center, University of Michigan Medical School
2022-2024	Faculty Coordinator, CHEAR Methods Seminar Series, Susan B. Meister Child Health and Evaluation Research Center, University of Michigan Medical School
2023	Committee Member, COMFORT clinical practice guideline for management of pain in pregnant and peripartum women
2023	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
2024-present	Faculty Launch Committee for Dr. Micah Aaron, University of Michigan School of Public Health

National

2019-present	Abstract Reviewer, Pediatric Academic Societies Meeting
2022-2023	Advisory Board, Child Population Health Services Research Task Force, Society for Pediatric Research
2023-present	Co-Founder and Co-Leader, Child Health Services and Outcomes Research Network, Society for Pediatric Research

2023-2024	Advisory Board, AcademyHealth Child Health Services Research Interest Group
2024	Study Section, National Institute on Drug Abuse, “Accelerating the Pace of Drug Abuse Research Using Existing Data”
2024-present	Vice Chair, AcademyHealth Child Health Services Research Interest Group
2025-present	Advisory Board, 2025 IQVIA Institute Research Forum

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.

10. Epidemiology and effects of opioid prescribing by U.S. dentists. University of Detroit Mercy School of Dentistry, Ann Arbor, MI, January 2024.

11. Trends in U.S. Opioid Dispensing. International Narcotics Research Conference, Ann Arbor, MI, July 2024.

12. Association Between Medicaid Unwinding and Chronic Medication Dispensing Among Children and Young Adults. Unwinding of Medicaid's Continuous Coverage Requirement: Convenings on Critical Research Priorities, Urban Institute and The Commonwealth Fund. July 2024.

13. Changes in Chronic Medication Dispensing Among Children and Young Adults During Medicaid Unwinding. Health Policy Brown Bag Series, Assistant Secretary for Planning and Evaluation, August 2024.

14. Cost-Sharing and Dispensing of Naloxone and Buprenorphine. Program on Regulation, Therapeutics, and Law. Brigham and Women's Hospital, Harvard Medical School, October 2024.

15. Introduction to Claims Data and the Merative MarketScan Commercial Database, Division of General Pediatrics, Yale School of Medicine, November 2024.

16. Cost-Sharing and Dispensing of Naloxone and Buprenorphine. Department of Population Health Sciences, Weill Cornell Medical School, May 2025.

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 Committee on Energy and Commerce, 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 Institute Conference (online), October 2022.

4. Show Me the Money: Pediatric Cost and Utilization (session chair). 2024 AcademyHealth Annual Research Meeting, Baltimore, MD, June 2024.

5. Effective Application of Data in High-Impact Health Research (session chair). 2024 IQVIA Institute Conference, Boston, MA, July 2024.

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 2023

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.

7. Why should we care about low-value pediatric care? University of Michigan Fellows Seminar. 1 lecture, 15 fellows. February 2025.

8. Administrative Data for Health Services Research. National Clinical Scholars Program core seminar series. 1 lecture, 18 master's students and postdoctoral fellows, March 2025.

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.

25. Rogers K. With the decline in youth mental health comes another concerning trend, study finds. *CNN*. February 26, 2024.

26. Edwards E. ‘Boys are disappearing’ from mental health care as signs of depression go undetected. *NBC News*. March 17, 2024.

27. Johnson C. More doctors can prescribe leading addiction treatment. Why aren’t more people getting help? *Associated Press*. April 14, 2024.

28. Caron C. What you really need to know about antidepressants. *New York Times*. April 25, 2024.

29. Christen C. Prescriptions for weight loss, diabetes drugs for young people leaped 600% since 2020, study says. *CNN*. May 23, 2024.

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. *JGIM.* 2019;34(3):338-340. PMID: 30324293. PMCID: 6420515.

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. PMCID: PMC6534705.

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. PMCID: PMC6484797.

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. PMCID: PMC6512276.

18. **Chua KP**, Harbaugh CM, Brummett CM, Bohm LA, Cooper KA, Thatcher Al, 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. 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.

21. **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

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. PMCID: PMC7980769.

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,** 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

28. **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. PMCID: PMC8390637.

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. PMCID: PMC8106633.

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. PMCID: PMC8276859.

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. PMCID: PMC8524307.

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**, 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. PMCID: PMC8844207.

45. **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. PMCID: PMC8860890.

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. PMCID: PMC8759024.
[Altmetric score 1196, #325 all-time at *JAMA*].

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. PMID: 35157059. PMCID: PMC8845007.

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. PMCID: PMC9826666.

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. Levengood 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. PMCID:PMC9270692.

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. PMCID: PMC9905380.

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. PMCID: PMC8787466.

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. PMCID: PMC9857656.

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. PMCID: PMC9857382. doi:10.1001/jamanetworkopen.2002.50409.

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. PMID: 36723943; PMCID: PMC9892958.

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. PMCID: PMC10354205.

64. Reeves SL, Ng S, Dombkowski KJ, Raphael JL, **Chua KP.** Transcranial Doppler screening and spending among children with sickle cell anemia. *AJMC*. 2023; 29(3):e79-e84. PMID: 36947020. PMCID: PMC10130945.

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. **Chua KP,** Nguyen TD, Brummett CM, Bohnert AS, Gunaseelan V, Englesbe MJ, Waljee JF. Changes in Surgical Opioid Prescribing and Patient-Reported Outcomes After Implementation of an Insurer Opioid Prescribing Limit. *JAMA Health Forum*. 2023 Oct 6;4(10):e233541. doi: 10.1001/jamahealthforum.2023.3541. PMID: 37831460; PMCID: PMC10576220.

69. Srinivasan 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 Surg*. 2023 Dec 1;278(6):e1185-1191. doi: 10.1097/SLA.0000000000005937. PMID: 37334751; PMCID: PMC10631504.

70. 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; PMCID:PMC10374053.

71. Zhang J, Nalliah RP, Waljee JF, Brummett CM, **Chua KP**. Association between the COVID-19 outbreak and opioid prescribing by U.S. dentists. *PloS One*. 2023 Nov 2; doi: 10.1371/journal.pone.0293621. PMID: 37917644; PMCID: PMC10621808.

72. Zhang J, Waljee JF, Nguyen TD, Bohnert ASB, Brummett CM, Bicket MC, **Chua KP**. Opioid Prescribing by US Surgeons, 2016-2022. *JAMA Netw Open.* 2023;6(12):e2346426. doi:10.001/jamanetworkopen.2023.46426. PMID: 38060230; PMCID: PMC10704275.

73. **Chua KP**, Volerman A, Zhang J, Hua J, Conti RM. Antidepressant Dispensing to US Adolescents and Young Adults: 2016-2022. *Pediatrics*. 2024 Mar 1;153(3). doi: 10.1542/peds.2023-064245. PMID: 38404197; PMCID: PMC10904889. [Altmetric score 1321, #2 most viewed article in *Pediatrics* in 2024].

74. Bicket MC, **Chua KP**, Lagisetty P, Yi L, Waljee JF, Brummet CM, Nguyen TD. Prevalence of surgery among individuals in the United States. *Ann Surg Open*. June 2024. 5(2):p e421, 2024. doi:10.1097/AS9.0000000000000421.

75. **Chua KP**, Fischer MA, Rahman M, Linder JA. Changes in the appropriateness of US outpatient antibiotic prescribing after the Coronavirus disease 2019 outbreak: an interrupted time series analysis of 2017-2021 data. *CID.* 2024 Apr 22; doi: 10.1093/cid/ciae135. PMID: 38648159.

76. Ladines-Lim J, Fischer MA, Linder JA, **Chua KP.** Prevalence of Inappropriate Antibiotic Prescribing with or without a Plausible Antibiotic Indication among Safety-Net and Non-Safety-Net Populations. *J Gen Intern Med.* 2024 Apr 26; 10.1007/s11606-024-08757-z. PMID: 38671203.

77. **Chua KP,** Nguyen TD, Brummett CM, Bohnert ASB, Gunaseelan V, Englesbe MJ, Lee S, Waljee JF. Association Between Prescription Drug Monitoring Program Use Mandate and Opioid Prescribing and Patient-Reported Outcomes After Surgery. *Ann Surg*. 2024 May 8. PMID: 38716667.

78. Ladines-Lim J, Fischer MA, Linder JA, **Chua KP**. Appropriateness of antibiotic prescribing in U.S. emergency department visits, 2016-2021. *Antimicrob Steward Healthc Epidemiol*. 2024;4(1):e79. Doi:10.1017/ash.2024.79. PMID: 38751940; PMCID: PMC11094377.

79. **Chua KP,** Bicket MC, Bohnert ASB, Conti RM, Lagisetty P, Nguyen TD. Buprenorphine dispensing after elimination of the waiver requirement. *NEJM.* 2024 Apr 25;390(16):1530-1532. PMID: 38657250. PMCID: PMC11103581.

80. Lee JM, Sharifi M, Oshman L, Griauzde DH, **Chua KP.** Dispensing of Glucagon-Like Peptide-1 Receptor Agonists to Adolescents and Young Adults, 2020-2023. *JAMA.* 2024 May 22: doi: 10.1001/jama.2024.7112. PMID: 38776113; PMCID: PMC11112492.

81. **Chua KP,** Conti RM, Lagisetty P, Bohnert ASB, He S, Nguyen TD. Association between cost-sharing and naloxone prescription dispensing. *JAMA*. 2024 June 13; doi:10.1001/jama.2024.8378. PMID: 38869887, PMCID: PMC11177218.

82. **Chua KP,** Conti RM, Lagisetty P, Bohnert ASB, Nuliyalu U, Nguyen TD. Association between cost-sharing and buprenorphine prescription dispensing. *JGIM*. 2024 Jun 18; doi:10.1007/s11606-024-08819-2. PMID: 38888865.

83. Alessio-Bilowus D, **Chua KP,** Peahl A, Brummett CM, Gunaselan V, Bicket MC, Waljee JF. Epidemiology of opioid prescribing after discharge from surgical procedures among adults. *JAMA Network Open.* 2024 Jun 3;7(6):e2417651. doi: 10.1001/Jamanetworkopen.2024.17651. PMID: 38922619. PMCID: PMC11208979.

84. **Chua KP,** Brummett BM, Kelley-Quon LI, Bicket MC, Gunaseelan V, Waljee JF. Pediatric Surgical Opioid Prescribing by Procedure, 2020-2021. *Pediatrics.* 2024 Jun 26; doi:10.1542/peds.2024-065814. PMID: 38919985; PMCID: PMC11211692.

85. **Chua KP**, He S, Conti RM. Changes in Dispensing of Acid Blockers to U.S. Children: 2016-2023. *Pediatrics Open Science* 2025. 1(1):1-10.

86. Ervin-Sikhondze B, Gunaseelan V, **Chua KP**, Bicket MC, Waljee JF, Englsebe MJ, Brummett CM. Opioid consumption in the first 30 days after surgery: A major risk factor for new persistent opioid use. *Reg Aesth Pain Med*. 2024 20:rapm-2024-106068. Doi:10.1136/rapm-2024-106068. PMID: 39709188.

87. He S, McCabe SE, Conti RM, Volerman A, **Chua KP**. Prescription stimulant dispensing to US children: 2017-2023. *Pediatrics.* 2025; e2024068558. https://doi.org/10.1542/peds.2024-068558.

88. **Chua KP**, Conti RM, Becker NV. Mortality in the families of children during the COVID-19 pandemic: evidence from a repeated cross-sectional study of children in the United States. *BMC Public Health*. 2025 Jan 29; 25(1):376. PMID: 39881286. PMCID: PMC11780757.

89. Constantin J, McCabe SE, Pasman E, Wilens T, **Chua KP.** Association between telehealth initiation of stimulant therapy and new substance use disorder diagnoses. *Health Affairs*. 2025; 44(3):361-369. doi: 10.1377/hlthaff.2024.01026.

90. **Chua KP,** Volerman A, Conti RM. Changes in inhaled steroid dispensing to children after withdrawal of brand-name fluticasone propionate. *JAMA*. 2025. doi: 10.1001/jama.2025.4154. PMID: 40287146.

91. Constantin J, Kenney GM, Simon K, **Chua KP**. Medicaid unwinding and changes in buprenorphine dispensing. *JAMA Netw Open*. 2025 May 1;8(5):e258469. doi: 10.1001/jamanetworkopen.2025.8469. PMID: 40314954.

92. **Chua KP**, Constantin J, Kenney GM, Conti RM, Simon K. Changes in Chronic Medication Dispensing to Children and Young Adults During Medicaid Unwinding. *Pediatrics*. 2025 May 2:e2024070380. doi: 10.1542/peds.2024-070380. PMID: 40314398.

93. Nguyen TD, Jiao Y, Lee SS, Lagisetty P, Bohnert ASB, Koche KE, **Chua KP.** Medicaid patients with ED visits for overdose: disparities in initiation of medications for opioid use disorder. *Health Affairs.* 2025. 44(5):622-630. PMID: 4032415.

94. Hill NE, He S, **Chua KP.** National Trends in HIV Pre-Exposure Prophylaxis to Young Adults, 2016-2023. *JGIM.* 2025 May 9. PMID: 40346406.

95. He S, McCabe SE, Conti RM, **Chua KP**. Changes in stimulant dispensing to US children associated with the stimulant shortage. *Pediatrics.* 2025; e202507077. PMID: 40389241.

96. Kompaniyets L, Pierce SL, Porter R, Autrey K, **Chua KP**, Belay B, Blanck HM, Goodman AB. Prescription for obesity medications among adolescents aged 12-17 years with obesity – United Stats, 2018-2023. *MMWR*. 74(20);337-344.

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.

6. **Chua KP,** Gleeson SP. Pediatric Care Management Programs: The Evidence Gap Remains. *Pediatrics.* 2023 Dec 1;152(6). doi:10.1542/peds.2023-063241. PMID: 38013508; PMCID: PMC10657774.

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 2023.

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. AAP Presidential Plenary, Pediatric Academic Societies 2023 Annual Meeting, Washington DC, May 2023.

19. **Chua KP,** Conti RM. Association Between Medicaid Unwinding and Chronic Medication Use in Children. Pediatric Academic Societies 2024 Annual Meeting, Toronto, ON, May 2024.

20. **Chua KP,** Constantin J, Conti RM. Association Between Medicaid Unwinding and Chronic Medication Use in Children and Young Adults. AcademyHealth 2024 Annual Research Meeting, Baltimore, MD, June 2024.

21. **Chua KP,** Bicket MC, Bohnert ASB, Conti RM, Lagisetty P, Nguyen TD. Buprenorphine dispensing after elimination of the waiver requirement. AcademyHealth 2024 Annual Research Meeting, Baltimore, MD, June 2024.

22. **Chua KP,** Conti RM, Lagisetty P, Bohnert ASB, He S, Nguyen TD. Association between cost-sharing and naloxone prescription dispensing. AcademyHealth 2024 Annual Research Meeting, Baltimore, MD, June 2024.

23. **Chua KP,** Volerman A, Conti RM. Changes in inhaled steroid dispensing to children after withdrawal of brand-name fluticasone propionate. Pediatric Academic Societies 2025 Annual Meeting, Honolulu, HI. April 2025.

24. **Chua KP,** He S. Changes in outpatient mental health visits among male and female adolescents during the COVID-19 pandemic. Pediatric Academic Societies 2025 Annual Meeting, Honolulu, HI. April 2025.

25. Hill N**,** He S, **Chua KP.** Dispensing of HIV pre-exposure prophylaxis medications to young adults, 2016-2023. Pediatric Academic Societies 2025 Annual Meeting, Honolulu, HI. April 2025.

26. **Chua KP,** Brummett CM, Nalliah R. Effect of Academic Detailing Intervention on Opioid Prescribing to Adolescents and Young Adults by High-Volume Dentists. AcademyHealth 2025 Annual Research Meeting, Minneapolis, MN. June 2025.

27. Kompaniyets L, Pierce SL, Porter R, Autrey K, **Chua KP (presenting author)**, Belay B, Blanck HM, Goodman AB. Obesity Medication Prescribing to U.S. Adolescents, 2020-2023. AcademyHealth 2025 Annual Research Meeting, Minneapolis, MN. June 2025.

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.

8. Lee JM, Sharifi M, Oshman L, Griauzde DH, **Chua KP.** Dispensing of Glucagon-Like Peptide-1 Receptor Agonists to Adolescents and Young Adults, 2020-2023. Pediatric Academic Societies 2024 Annual Meeting, Toronto, ON, May 2024.

9. **Chua KP,** Nguyen TD, Brummett CM, Bohnert ASB, Gunaseelan V, Englesbe MJ, Lee S, Waljee JF. Association Between Prescription Drug Monitoring Program Use Mandate and Opioid Prescribing and Patient-Reported Outcomes After Surgery. AcademyHealth 2024 Annual Research Meeting, Baltimore, MD, June 2024.

10. He S, **Chua KP.** Stimulant Dispensing to U.S. Children: 2017-2023. AcademyHealth 2024 Annual Research Meeting, Baltimore, MD, June 2024.

11. Constantin J, **Chua KP.** Association Between Medicaid Unwinding and Buprenorphine Dispensing. AcademyHealth 2024 Annual Research Meeting, Baltimore, MD, June 2024.

12. Constantin J, **Chua KP.** Association Between Telehealth Initiation of Stimulant Therapy and New Substance Use Disorders. AcademyHealth 2024 Annual Research Meeting, Baltimore, MD, June 2024.