

TRUDY MILLARD KRAUSE, DrPH, MS, CPHQ
CURRICULUM VITAE

CURRENT APPOINTMENT AND CONTACT INFORMATION

Professor, Department of Management, Policy and Community Health
The University of Texas (UT) – School of Public Health (SPH)
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Trudy.M.Krause@uth.tmc.edu

E D U C A T I O N

DrPH	The University of Texas School Health Science Center at Houston 1995 School of Public Health, Health Dissertation: The Effects of 24-Hour Shifts on Circadian Rhythms and Chronobiology Among City of Houston Paramedics	
M. S.	Louisiana State University, Baton Rouge, LA Graduate School of Business Masters of Management	1986
B. S.	University of Minnesota, Minneapolis, MN College of Education Special Education, Art Therapy	1976

CERTIFICATION

CPHQ:	Certified Professional in HealthCare Quality
CORA:	Certified Outcomes Research Analyst
CMS DVAA:	Former CMS Data Validation Auditor
CHCA:	Former HEDIS® Compliance Auditor

CURRENT ACADEMIC POSITIONS

Professor: **Management, Policy, and Community Health 2020- Current, Full Time**
 Associate Professor 2015-2020
 Assistant Professor 2010-2015, Part Time
The University of Texas Health Science Center at Houston,
School of Public Health

Co-Director: **Center for Health Care Data**
The University of Texas Health Science Center at Houston,
School of Public Health

Affiliation: **Center for Health Systems Research, Policy, and Practice**
The University of Texas Health Science Center at Houston,
School of Public Health

Affiliation: **The George McMillan Fleming Center for Healthcare Management**
The University of Texas Health Science Center at Houston,
School of Public Health

PROFESSIONAL EXPERIENCE

THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON

JANUARY 2010 – PRESENT

Professor, Department of Management, Policy and Community Health

Co-Director, Center for Health Care Data

Houston, Texas

A move to an academic position brought me opportunities to build a history of scientific research and service in population health. I brought to the position my skills and knowledge in claims data research, outcomes research, and effectiveness analysis of health plans. I have built The Center for Health Care Data at UTHealth, the largest research accessible data center in Texas and possibly one of the largest in the nation, with claims data on millions of persons nationally and state-wide across more than a decade. The data center has grown under my leadership to employ more than 30 persons of multiple disciplines and it generates annual funds in excess of \$9 million.

The Center has been appointed as the All Payor Claims Database for the State of Texas. As the administrator of the TX-APCD, the Center is responsible for the collection and management of healthcare claims for insured persons in Texas, as well as research and reporting of health care costs, utilization and quality metrics related to the health of Texans.

Additional responsibilities included teaching of courses related to research and health policy and health quality, advising of graduate students (masters and PhD level), supervision of staff, and active service to the University and the community through participation in committees, workgroups, and community interest organizations. To advance research I lead research projects, and support other researchers in studies, as well as provide supervision and guidance to PhD students and their dissertation studies.

DYNAMIC HEALTH STRATEGIES **NOVEMBER 1999 – OCTOBER 2014**
Vice President, Analytics and Product Development ***Houston, Texas***

This health data company provided health informatics services related to health care outcomes and performance initiatives and activities to employer group health plans. Additionally, it provided audit, consultation, project management, public health initiatives, accreditation compliance, and health care research. Technology initiatives were related to complex data modeling, data analysis and databases for use in performance and quality analysis of claims data, provider performance data, disease management, and other health initiatives.

In this position I created data analytical tools, report formats and portals, and statistical risk and predictive models that were applied to health plan claims and benefit design data to assess plan effectiveness by outcomes and efficiency by cost. I supervised a team of analysts and project managers and worked directly with employer clients, their agents and brokers, and their vendors. I additionally performed consulting services related to health services design, quality and performance for international and domestic clients.

HORNE CPA GROUP **APRIL 1999 - OCTOBER 1999**
Senior Health Care Consultant ***Houston, Texas***

With complete responsibility for building the department of Outcomes Data Management within the Health Care Division of this consulting firm, I created a service line to meet the needs of physicians and health care entities to measure and promote clinical and performance outcomes. Specific functions required direct interaction with physicians and health care administrators to define a research project, its objectives, process, and application and the design and performance of quantitative and qualitative research. Research was primarily directed to analysis of medical/clinical effectiveness or efficiency and medical economics as applied to managed care contracting, differential reimbursement, disease management

OUTCOME STRATEGIES, INC **1997 - 1999**
President and Chief Executive Officer ***Houston, Texas***

Six physician partners and I developed this company to apply interdisciplinary assessments and outcomes data to medical care decisions. Outcome Strategies, Inc., provided an outpatient medical rehabilitation program, outpatient rehabilitation services, and applied outcomes research in musculoskeletal disease to create a disease management process in advance of anticipated changes in the workers compensation market. I was responsible for program design, development, implementation, certification, and promotion, resulting in payer approval and support for an

innovative spinal treatment outpatient medical rehabilitation program unlike any in the country. I also developed an outcomes data management program for musculoskeletal disease that has been successfully applied within the company and supporting clinics, resulting in one of the nation's largest data bases on spine disease medical outcomes. The outcomes data was used to develop an extensive, comprehensive treatment algorithm encompassing a network of providers: primary care, occupational medicine, orthopedic surgeons, neurosurgeons, neurologists, chiropractors, physical therapists, pain specialists and others to initiate contracting opportunities within workers compensation market

COLUMBIA/HCA**1993 - 1997*****Director of Operations******1995-1997******Spinal Treatment Evaluation Process and the Sports Medicine and Performance Institute
Texas Orthopedic Hospital, an affiliate of Columbia/HCA******Houston, Texas***

The initial spinal rehabilitation program was developed with the support of Texas Orthopedic Hospital prior to its privatization in 1997. In this position, I was able to apply both my clinical training and my management skills in the creation, development and growth of a medical specialty service: The Spinal Treatment Evaluation Process. Additional responsibilities included operation of the wellness programs and fitness center as well as clinical research and design of outcome management services.

Vice President***1994-1995******Spring Branch Medical Center, an affiliate of Columbia/HCA******Houston, Texas***

As Vice President, I acted as a key member of the administrative team, responsible for the operations of two hospitals involved in a merger. I was directly responsible for one hospital, one satellite campus, one surgical center, office buildings, and many shared hospital and outpatient services, with total annual gross revenue of \$75 million, 300 FTE's. My role involved the direction and oversight of the acquisition of one hospital and merger with a medical center, resulting in the merger of services, merger of medical staffs, redistribution of staff, and repositioning of the new entity within the community. I was responsible for physician relations in psychiatric services, rehabilitation services, occupational medicine, wound care, sleep and neurological disorders, and addictions.

CEO-Administrator***1993-1994******HCA Belle Park Hospital, an affiliate of HCA******Houston, Texas***

Responsible for operations of specialty hospital, specific challenges included positioning for managed care environment, development of Physician-Hospital Network (PHO), financial analysis and business plan to improve hospital performance. Gross revenues of \$8.4 million, 144 beds, 200 FTES. Successfully completed Joint Commission on Accreditation of Health Care Organizations (JCAHO) survey with accommodation, demonstrating organizational compliance with standards of care and operation.

CAMBRIDGE INTERNATIONAL

1989 - 1992

Administrator

1990-1992

Orchard Creek Hospital, an affiliate of Cambridge International

Houston, Texas

Responsible for all operations and administration of small, specialty rural hospital. Demonstrated effective financial turn-around and increase in census through the development of new referral sources, contracting, and physician recruitment. Increased hospital inpatient census overall from 10% occupancy to 50% occupancy through effective alliances, medical staff recruitment, marketing efforts, and new program development.

RESEARCH AND PUBLICATIONS

Manuscripts Published

1. Naizer H, Wozny J, **Krause TM**, Huson E, Freeman L. Trends in central nervous system-active polypharmacy among people with multiple sclerosis. *Multiple Sclerosis Journal*. 2024;0(0). doi:10.1177/13524585241251986
2. Kim Y, Ganduglia-Cazaban C, Tamirisa N, Lucci A, Krause TM. Contemporary Analysis of Re-excision and Conversion to Mastectomy Rates and Associated Healthcare Costs for Women Undergoing Breast-Conserving Surgery. *Ann Surg Oncol*. 2024 Jun;31(6):3649-3660. doi: 10.1245/s10434-024-14902-z. Epub 2024 Feb 6. Erratum in: *Ann Surg Oncol*. 2024 Mar 23;: PMID: 38319511; PMCID: PMC11076367.
3. Ethan Meltzer, Odelin Charron, Joe Wozny, Helen Onuorah, Amanda Montague, Alexis Crispino Kline, Avery Largent, **Trudy Millard Krause**, Leorah Freeman, Indirect impact of the COVID-19 pandemic on the care and outcomes of people with MS: A combined survey and insurance claims study, *Multiple Sclerosis and Related Disorders*, Volume 80, 2023, 105085, ISSN 2211-0348, <https://doi.org/10.1016/j.msard.2023.105085>. (<https://www.sciencedirect.com/science/article/pii/S2211034823005862>)

4. Kim Y, **Krause TM**, Lane SD. Trends and Seasonality of Emergency Department Visits and Hospitalizations for Suicidality Among Children and Adolescents in the US from 2016 to 2021. *JAMA Netw Open*. 2023;6(7):e2324183. doi:10.1001/jamanetworkopen.2023.24183
5. Kwak MJ, Schaefer C, **Krause TM**, Goyal P, Kim DH, Dhoble A, Johnson M, Aparasu R, Holmes HM. The median doses of beta-blockers among older adults with heart failure with reduced ejection fraction. *J Am Geriatr Soc*. 2023 Jun 1. doi: 10.1111/jgs.18462. Epub ahead of print. PMID: 37260084
6. H. Naizer, H. Kohl III, **T. Millard Krause**, R. Hamden, J. Wozny, O. Charron, L. Freeman, Association between MRI utilization and disease-modifying therapy switches among people with multiple sclerosis in the United States, *Neurology*
7. **Krause, TM**, Greenberg, Raymond, Ghosh, Lopita, Wozny, Joseph S., Hansen, Regina M., Schaefer, Caroline, COVID-19 severity scale for claims data research, *BMC Health Services Research*, expected online publication: 25 April 2023
8. Karra, S.V., **Krause, T.M.**, Yamal, JM. et al. Autism Spectrum Disorder and Parental Depression. *J Dev Phys Disabil* (2023). <https://doi.org/10.1007/s10882-023-09924-6>
9. Chen UI, Xu H, **Krause TM**, Greenberg R, Dong X, Jiang X, Factors Associated With COVID-19 Death in the United States: Cohort Study, *JMIR Public Health Surveill* 2022;0(0):e0, URL: <https://publichealth.jmir.org/2022/0/e0/>, doi: 10.2196/29343
10. Nwana, N, Chan, W, Langabeer, J, Kash, B, **Krause, T M**, Does hospital location matter? Association of hospital neighborhood socioeconomic disadvantage with hospital quality in US metropolitan settings, *Health and Place*, Accepted for publication Sept 2022
11. Teixeira AL, **Krause TM**, Ghosh L, et al. Analysis of COVID-19 Infection and Mortality Among Patients With Psychiatric Disorders, 2020. *JAMA Netw Open*. 2021;4(11):e2134969. doi:10.1001/jamanetworkopen.2021.34969
12. Teixeira AL, Hansen RM, Wozny JS, Schaefer CM, Machado-Vieira R, Shahani L, Lane SD, Soares JC, **Krause TM**. Incidence rate of psychiatric disorders in 2020: The pivotal role played by SARS-CoV-2 infection. *PLoS One*. 2022 Sep 22;17(9):e0274330. doi: 10.1371/journal.pone.0274330. PMID: 36137136; PMCID: PMC9498971.
13. Kim, Y, Lee, S, Abdelkhaleq, R, Lopez-Rivera, V, Navi, B, Kamel, H, Savitz, S, Czap, A, Grotta, J., McCullough, L, **Krause, T.**, Giancardo, L., Vahidy, F, Sheth, S.; Utilization and Availability of Advanced Imaging in Patients With Acute Ischemic Stroke, 24 Mar 2021 <https://doi.org/10.1161/CIRCOUTCOMES.120.006989>, *Circulation: Cardiovascular Quality and Outcomes*. 2021;14:e006989
14. **Krause, T.M.**, Hamden, R., Schaefer, C.M.; The Impact of Personal and Historical Factors That Contribute to Medicare Readmissions; *Population Health Management Ahead of Print*; Published Online: 8 Nov 2021 <https://doi.org/10.1089/pop.2021.0106>
15. Teixeira AL, **Krause TM**, Ghosh L, et al. Analysis of COVID-19 Infection and Mortality Among Patients With Psychiatric Disorders, 2020. *JAMA Network Open*.

- 2021;4(11):e2134969. doi:10.1001/jamanetworkopen.2021.34969
16. Kim, Y, Khose, S., Zhang, G, **Krause, T.M**, McCullough, L.D., Vahidy, F.S., Sheth, S. A Trends in the Use of Oral Anticoagulants and Associated Expenditures Among Medicaid Programs, *Stroke Vasc Interv Neurol*. 2021;0:e000146. DOI: 10.1161/SVIN.121.000146
 17. Meltzer, E.; Charron, O.; Hamden, R.; Onuorah, H.; Montague, A.; Crispino, A.; Lucas, A.; Krause, T.; Freeman, L., Impact of the COVID-19 pandemic on disease-modifying therapy utilization and perceptions in multiple sclerosis: A retrospective insurance claims analysis and survey study of people with MS and healthcare providers., *Multiple Sclerosis Journal* ; 27(2 SUPPL):547, 2021
 18. The Association of Social Determinants of Health With Health Outcomes, March 9, 2021 **Trudy Millard Krause, DrPH**, Caroline Schaefer, MPH, Linda Highfield, PhD, *The American Journal of Managed Care*, March 2021, Volume 27, Issue 3
 19. Langabeer, D M, **Krause, T**, Ganduglia Cazaban, CM, Swartz, M D, Lopez, D S, Bodurka, D C, Are symptoms distinguishable in ovarian cancer? A nested case control study of insurance claims., DOI: 10.1200/JCO.2020.38.15_suppl.6063 *Journal of Clinical Oncology* 38, no. 15_suppl (May 20, 2020) 6063-6063. Published online May 25, 2020
 20. Cornell SD, Valerio MA, **Krause T**, Cornell J, Revere L, Taylor BS. Low Adherence to Post Emergency Department Follow-Up Among Hypertensive Patients With Medical Insurance. *J Emerg Med*. 2020;58(2):348-355. doi:10.1016/j.jemermed.2019.12.005 PMID: 32081456
 21. Phuar HL, Begley CE, Chan W, **Krause TM**. Tyrosine Kinase Inhibitors Initiation, Cost Sharing, and Health Care Utilization in Patients with Newly Diagnosed Chronic Myeloid Leukemia: A Retrospective Claims-Based Study. *J Manag Care Spec Pharm*. 2019;25(10):1140-1150. doi:10.18553/jmcp.2019.25.10.1140 PMID: 31556823
 22. Phuar HL, Begley CE, Chan W, **Krause TM**. Tyrosine Kinase Inhibitors and the Relationship With Adherence, Costs, and Health Care Utilization in Commercially Insured Patients With Newly Diagnosed Chronic Myeloid Leukemia: A Retrospective Claims-Based Study. *Am J Clin Oncol*. 2020;43(7):517-525. doi:10.1097/COC.0000000000000700 PMID: 32304434
 23. Kim Y, **Krause TM**, Blum P, Freeman L. Disease modifying therapies continue to drive up health care cost among individuals with multiple sclerosis. *Mult Scler Relat Disord*. 2019;30:69-75. doi:10.1016/j.msard.2019.02.006 PMID: 30738875
 24. Lopez DS, Huang D, Tsilidis KK, **Krause, T M**, et al. Association of the extent of therapy with prostate cancer in those receiving testosterone therapy in a US commercial insurance claims database. *Clin Endocrinol (Oxf)*. 2019;91(6):885-891. doi:10.1111/cen.14093 PMID: 31556823
 25. **Krause TM**, Ukhanova M, Lee Revere F, Finkel KW. Risk Predictors for Postcontrast Acute Kidney Injury. *J Am Coll Radiol*. 2018 ;15(11):1547-1552. doi:10.1016/j.jacr.2018.04.015 PMID: 29801693
 26. **Krause TM**, Ganduglia-Cazaban C, Finkel KW. Rates for HEDIS Screening for Diabetic

- Nephropathy Quality Measure May Be Overstated. *Manag Care*. 2018;27(8):45-49. PMID: 30142069
27. **Krause, TM**, Ganduglia-Cazaban, C, Piller, LB, Venkataraman, V, Comparison of utilization of urgent care and primary care 2011-2015, *Family Medicine and Care, OAT Open Access Text*, DOI: 10.15761/FMC.1000102, 04/16/2018
 28. Kehl KL, Liao KP, **Krause TM**, Giordano SH. Access to Accredited Cancer Hospitals Within Federal Exchange Plans Under the Affordable Care Act [published correction appears in *J Clin Oncol*. 2017 Jun 20;35(18):2100]. *J Clin Oncol*. 2017;35(6):645-651. doi:10.1200/JCO.2016.69.9835 PMID: 28068172
 29. **Krause TM**, Yay Donderici E, Ganduglia Cazaban C, Franzini L. Future expenditure risk of silent members: a statistical analysis. *BMC Health Serv Res*. 2016;16:319. Published 2016 Jul 29. doi:10.1186/s12913-016-1552-x PMID: 27473359
 30. Abbass IM, **Krause TM**, Virani SS, Swint JM, Chan W, Franzini L. Revisiting the economic efficiencies of observation units. *Manag Care*. 2015;24(3):46-52. PubMed PMID: 25939196
 31. **Krause, T. M.**, Chen, J. , Ganduglia-Cazaban, C., Challenges in Healthcare Quality Transparency Efforts, *Journal of Health Care Finance*, Fall 2016 Vol 43, No 3, Winter 2017
 32. Revere, F. L., Delgado, R. I., Yay Donderici, E., **Krause, T. M.**, Swartz, M. D., Price transparency and healthcare cost: an evaluation of commercial price variation for obstetrical services, *Journal of Health Care Finance*, Summer 2016 Vol 43, No 3, Winter 2017
 33. **Krause TM**, Ukhanova M, Revere FL. Private Carriers' Physician Payment Rates Compared With Medicare and Medicaid. *Tex Med*. 2016;112(6):e1. Published 2016 Jun 1. PMID: 27295293
 34. Office of the Inspector General, Texas Health and Human Services Commission, Standardized Medicaid Cost Avoidance and Waste Prevention Reporting Strategy, August 2019
 35. Texas Health and Human Services Commission, Intellectual and Developmental Disability Care Evaluation Report, August 2019
 36. Texas Health Improvement Network Data Committee, 2019. Facilitating Use of Data to Drive Population Health in Texas, Austin, TX: Texas Health Improvement Network
 37. Texas Health and Human Services Medicaid EQRO: Trends in Emergency Department Visits for Non-Traumatic Dental Conditions in Texas Medicaid and the Children's Health Insurance Program: 2013-2017, May 2019, Ana Neumann, DDS, MPH, PhD, UT Health School of Dentistry, **Trudy Millard Krause**, Chau Truong, MPH
 38. Claiborne N, Krause TM, Heilman AE, Leung P., Measuring quality of life changes in individuals with chronic low back conditions: a back education program evaluation, January 2002, *Evaluation and Program Planning* 25(1):61-70 DOI: 10.1016/S0149-7189(01)00049-0
 39. Claiborne N, Krause TM, Heilman AE, Leung P. Measuring quality of life in back patients: comparison of Health Status Questionnaire 2.0 and Quality of Life Inventory. *Soc Work Health Care*. 1999;28(3):77-94. doi:10.1300/j010v28n03_05 PMID: 10457982

Invited Talks and Presentations

NAHDO's 36th Annual Conference, August 2020 (Virtual)

An Innovative COVID 19 Severity Scale for Claims Data, T M Krause

NAHDO's 35th Annual Conference “Building a Bridge Between Data and Policy”, August 2020 (Virtual)

The Impact of Social Determinants of Health on Reportable Health Outcomes, T M Krause and Caroline Schaefer, MPH

Value Based Payment Quality Improvement Advisory Committee, Texas Health and Human Services: Webex Presentation due to COVID-19, July 2020

UTHealth Health of Texas Center for Health Care Data

Trudy Millard Krause, DrPH

Value Based Payment Quality Improvement Advisory Committee, Texas Health and Human Services: Webex Presentation due to COVID-19, June 2020

APCDs and the UTHealth Health of Texas and 10.06 Data Reporting

Trudy Millard Krause, DrPH

Winter 2020 Texas Medicaid/CHIP Managed Care Quality Forum: Austin, TX January 2020

Panel: Texas MCO Social Determinants of Health

Moderator: **Trudy Millard Krause, DrPH, CPHQ, UT School of Public Health**

The Academic Consortium on Criminal Justice Health (ACCJH) Annual Meeting: Raleigh, NC, March 2020 (rescheduled for 2021 due to COVID-19)

Title: State of Texas Initiative for Cross-Agency Coordination on Health Care Strategies and Measures, Inclusive of Department of Corrections, **Trudy Millard Krause, Vanessa Schick, Owen Murray**

Texas Health Improvement Network Annual Meeting: Austin, TX October 2019

Data Petting Zoon Presentations, **Trudy Millard Krause, DrPH**

Healthier Texas Summit: Texas Health Improvement Network Data Conference: Austin, TX April 2019

UTHealth Center for Health Care Data and APCDs, **Trudy Millard Krause, DrPH**

ISPOR 23rd Annual International Meeting. May 2018, Baltimore, MD.

Youngran Kim, Trudy Krause, Léorah Freeman. How Prescription Drug Cost for Disease Modifying Therapy (DMT) Impacts Overall Health Care Spending Among Individuals with Multiple Sclerosis. Podium Presentation.

Abstract published: Value in Health. 2018 May 1; 21:S13

Posters

44th Annual Meeting & Scientific Sessions of the Society of Behavioral Medicine, Chhabria K; Truong C. **Krause T.**, Investigating the impact of COVID-19 on Texas Hospital Encounters for Suicidal Behaviors in Children and Adolescents. April 2023, Phoenix AZ

Academy Health Annual Research Meeting, Trends and Seasonality of Suicidality Among Children and Adolescents in the US from 2016 to 2021”, Kim, Y, **Krause, T M**, Lane, S, June 2023, , Seattle, WA.

Alzheimer’s Disease-Related Dementias, Summit, Kim, Y, Teixeira, A L, Samper-Tement, R, **Krause, T M**, Antipsychotic Drug Use Among Community-dwelling Adults with Alzheimer’s Disease and Related Dementias, , March 2022, Virtual

The 38th Congress of the European Committee for Treatment and Research in Multiple Sclerosis, Amsterdam, Netherlands, October 2022, Therapeutic Efficacy of MRI: Association Between MRI Utilization and DMT Switch Among People with MS in the United States, E. Meltzer, O. Charron, R. Hamden, H. Onuorah, A. Montague, A. Crispino, A. Lucas, T. Krause, L. Freeman

The 38th Congress of the European Committee for Treatment and Research in Multiple Sclerosis, Amsterdam, Netherlands, October 2022, Therapeutic Efficacy of MRI: Association Between MRI Utilization and DMT Switch Among People with MS in the United States, E. Meltzer, O. Charron, R. Hamden, H. Onuorah, A. Montague, A. Crispino, A. Lucas, T. Krause, L. Freeman

APHA 2021 (VIRTUAL) Examining Texas Hospital Encounters For Suicidal Attempts, Suicidal Ideation And Self-harm In Children And Adolescents, 2016-2019, Chhabria K., PhD, MPH; Truong C., MPH; Krause T., DrPH, CPHQ,

34th International Epilepsy (IEC) Virtual, 2021, Intensity of Diagnostic Testing and Subsequent Seizure-related Events, Kim, Y, Krause, T, Sheth, S, Lhatoo, S, American College of Cardiology World Congress of Cardiology, originally in Chicago, Illinois, (virtual presentation) 2020

American College of Cardiology World Congress of Cardiology, originally in Chicago, Illinois, (virtual presentation), 2020, Geographical Variation Impacts Cost and Mode of Transport among Cardiogenic Shock in Medicare Beneficiaries, 2014-2017., Truong, C., Hamden, R., Krause, T.M., Aguilar, D., Patnaik, S., Tung, P., Fedson., S.E., Nambi, V., Montfort Hernandez, J. (2020).

APHA, American Public Health Association Annual Meeting: October 2019 Virtual Meeting due to COVID-19, Abstract: Examining Texas hospital encounters for suicidal attempts, suicidal ideation and self-harm in children and adolescents

American Society of Clinical Oncology, Chicago, Illinois (ASCO2020 virtual), Langabeer, D.M., Ganduglia Cazaban, C., Swartz, M.D., Millard Krause, T., Bodurka, D. C. (2020),

June): Are Symptoms Distinguishable in Ovarian Cancer? A Nested Case Control Study of Insurance Claims. Abstract retrieved from

<https://meetinglibrary.asco.org/record/188331/abstract>

International Stroke Conference. Moderated Poster Presentation. February 2020, Los Angeles, CA, Youngran Kim, Songmi Lee, Jennifer Meeks, Arvind Bambhroliya, Trudy Krause, Sunil Sheth, Farhaan Vahidy. Age, Sex and Regional Differences in Recent Stroke Incidence Trends Among Young Adults. Abstract published: Stroke 51, no. Suppl_1 (2020): AWMP52.

International Stroke Conference. February 2020, Los Angeles, CA., Songmi Lee, Youngran Kim, Farhaan Vahidy, Trudy Krause, Alexandra Czap, Victor Lopez-Rivera, James Fan, Albert Yoo, Luca Giancardo, James Grotta, Sunil Sheth. Utilization and Availability of CT Perfusion in Patients with Acute Ischemic Stroke: A Population Based Study., Abstract published: Stroke. 2020 Feb;51(Suppl_1):ATP70.

Mediterranean Emergency Medicine Congress, 2019, Dubrovnik, Croatia. Langabeer, D.M., Ganduglia Cazaban, C., Swartz, M.D., Algappan, K., Millard Krause, T. (2019, September): Do Women Present to the Emergency Department (ED) with Symptoms Prior to Diagnosis of Ovarian Cancer? A Secondary Analysis of a Retrospective Study of Symptoms Experienced Prior to Diagnosis of Ovarian Cancer.

Academy Health Annual Research Meeting. June 2019, Washington, D.C., Youngran Kim, Trudy Krause, Philip Blum, Léorah Freeman. Disease Modifying Therapies Continue to Drive up Health Care Cost Among Individuals with Multiple Sclerosis.

American Academy of Neurology Annual Meeting. May 2019, Philadelphia, PA., Youngran Kim, Trudy Krause, Philip Blum, Léorah Freeman. Trends for Healthcare Cost among Commercially Insured Individuals with Multiple Sclerosis.