

CURRICULUM VITAE

JENIL PATEL, M.B.B.S., M.P.H., Ph.D.

The University of Texas Health Science Center at Houston (UTHealth Houston) School of Public Health
Southwest Center for Occupational and Environmental Health
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CURRENT APPOINTMENT

Assistant Professor

Department of Epidemiology & Department of Environmental and Occupational Health Sciences
UTHealth Houston School of Public Health, Dallas, Texas

Director

Occupational Epidemiology Doctoral Training Program
Pilot Projects Research Training Program
Southwest Center for Occupational and Environmental Health
UTHealth Houston School of Public Health, Houston, Texas

Center Affiliation

Southwest Center for Occupational and Environmental Health
UTHealth Houston School of Public Health, Houston, Texas

A. BACKGROUND

A.1. EDUCATION

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|------|--|
| 2018 | <p>Ph.D. in Epidemiology (Delta Omega Honors)
<i>Minor in Biostatistics</i>
Breadth: <i>Research Methods & Practices in Occupational Health</i></p> <p>Department of Epidemiology, Human Genetics & Environmental Sciences
Southwest Center for Occupational and Environmental Health
University of Texas School of Public Health
Houston, Texas
Dissertation: “<i>The Association of Cleaning Products and Practices with Asthma among Texas Healthcare Professionals</i>”</p> |
| 2013 | <p>Master of Public Health
<i>Major: Health Education</i></p> <p>Western Kentucky University
Bowling Green, Kentucky</p> |

2011 **M.B.B.S. (U.S. M.D. equivalent - Bachelor of Medicine and Surgery)**

Smt. B.K. Shah Medical Institute & Research Centre
Gujarat University
Vadodara, Gujarat, India

A.2. POST-GRADUATE TRAINING

2021 **Postdoctoral Research Fellow**
Department of Epidemiology
Arkansas Center for Birth Defects Research and Prevention
Fay W. Boozman College of Public Health
University of Arkansas for Medical Sciences
Little Rock, Arkansas

A.2. AWARDS AND HONORS

2020 Society for Epidemiological Research-SPC Travel Award
2019 Scholar, Health Equity Leadership Institute, The University of Wisconsin-Madison School of Medicine and Public Health & The University of Maryland School of Public Health
2016 Dean's Excellence Scholarship, University of Texas School of Public Health
2015 Dean's Excellence Scholarship, University of Texas School of Public Health
2014 Dean's Excellence Scholarship, University of Texas School of Public Health
2013 New Outstanding Doctoral Student Scholarship – UT School of Public Health
2013 Dean's Excellence Scholarship, University of Texas School of Public Health
2013 Kentucky Public Health Association – WKU Student Chapter Officer
Appreciation Honor
2011 Academic Excellence in Public Health Education, College of Health and Human Services, Western Kentucky University

A.3. PROFESSIONAL EXPERIENCE

02/2021-present ***Assistant Professor***
Department of Epidemiology, Human Genetics & Environmental Sciences
School of Public Health
The University of Texas Health Science Center at Houston (UTHealth)
Dallas, Texas

Research Faculty
Center for Pediatric Population Health
The University of Texas Health Science Center at Houston (UTHealth), Dallas, Texas

Director and Faculty
Pilot Projects Research Training Program
Occupational Epidemiology Doctoral Research Training Program

Southwest Center for Occupational and Environmental Health
The University of Texas Health Science Center at Houston (UTHealth), Houston,
Texas

10/2018-01/2021

Postdoctoral Research Fellow – Perinatal and Birth Defects Epidemiology

Arkansas Center for Birth Defects Research and Prevention
Fay W. Boozman College of Public Health
University of Arkansas for Medical Sciences
Little Rock, Arkansas

Research Supervisor: Dr. Wendy Nembhard. MPH, PhD, FACE, *Center Director and Department Chair*

Projects: Birth defects research including designing and implementing studies at Arkansas (AR) center using National Birth Defects Prevention Study (NBDPS)/ Birth Defects Study to Evaluate Pregnancy Exposures (BD-STEPS) data with collaborations at Centers for Disease Control and Prevention (CDC), other NBDPS centers nationwide (NY, NJ, TX, NC, UT, IA, GA, CA), Arkansas Department of Health, Arkansas Reproductive Health Monitoring System

Postdoctoral Research Fellow – Epidemiology

UAMS College of Public Health COVID-19 Response
Fay W. Boozman College of Public Health
University of Arkansas for Medical Sciences
Little Rock, Arkansas

Project Supervisor: Mark L. Williams, PhD, *Dean* & Benjamin C. Amick, PhD, *Associate Dean of Research*

Projects: COVID-19 biweekly projections and forecasts, Arkansas pandemic pulse poll

05/2015-08/2018

Graduate Research Assistant

Southwest Center for Occupational and Environmental Health
University of Texas School of Public Health
Houston, Texas
Research Supervisor: Dr. George L. Delclos, MD, MPH, PhD
Project: Work-Related Asthma in Texas Healthcare Workers (R01)

01/2015-08/2015

Graduate Teaching Associate

University of Texas School of Public Health
Houston, Texas
Course taught: PH 9995-500/600/700 Capstone course (Lead instructor)

09/2013-12/2014

Graduate Teaching Assistant

University of Texas School of Public Health
Houston, Texas
Course: PH 9995-500/600/700 Capstone course

05/2013—7/2013	<i>Health Education and Promotion Specialist Intern</i> WKU Health Services Western Kentucky University Bowling Green, Kentucky
01/2012-08/2013	<i>Graduate Assistant</i> WKU Interactive Video Services Western Kentucky University Bowling Green, Kentucky
03/2011-06/2011	<i>Chief Medical Officer</i> Ravi Surgical Hospital Ahmedabad, Gujarat, India
03/2010-02/2011	<i>Intern (Medicine and Surgery)</i> Smt. B.K. Shah Medical Institute & Research Centre Gujarat University Vadodara, Gujarat, India

B. RESEARCH

Research Areas

Primary interests: Pediatric and perinatal/birth defects epidemiology, occupational health

Research areas: Chronic diseases, infectious diseases, health disparities, global health

B.1. PUBLICATIONS

Peer-reviewed

Sheriff FR, Benjamin RH, **Patel J**, Xiao Q, Shumate C, Fernandez A, Agopian AJ. Epidemiologic Features of Preterm Birth Among Infants With Trisomy 21 in Texas, 1999–2018. American Journal of Medical Genetics Part A. 2025 Aug 25:e64229.

GBD 2019 Acute and Chronic Care Collaborators. Characterising acute and chronic care needs: insights from the Global Burden of Disease Study 2019. Nature communications 16, no. 1 (2025): 4235.

Ernest DK, Collier A, Chandrasekhar A, Xie L, Darraji S, **Patel J**, Almandoz JP, Messiah SE. Association of Polycystic Ovarian Syndrome Features and Metabolic Syndrome Among Reproductive-Aged Women in the United States. Women's Health Reports. 2025 Apr 1;6(1):431-41.

Zhao Y, **Patel J**, Fan J, Wang X, Chen L, Li Y, Luo Z. Integrated analysis reveals that EGR1 promotes epithelial IL33 production in T2 asthma. Journal of Translational Medicine. 2025 Feb 18;23(1):203.

Villamil, V.I., Downing, K.F., Oster, M.E., Andrews, J.G., Galindo, M.K., **Patel, J.**, Klewer, S.E., Nembhard, W.N. and Farr, S.L., 2025. Comorbidities and Healthcare Utilization Among Young Adults

With Congenital Heart Defects by Down Syndrome Status—Congenital Heart Survey to Recognize Outcomes, Needs, and wellbeinG, 2016–2019. *Birth Defects Research*, 117(2), p.e2439.

de Porras DG, **Patel J**, Conway S, Pompeii L, Mitchell LE, Carson A, Whitehead LW, Han I, Zock JP, Henneberger PK, Patel R. A Qualitative Assessment of Changes in Occupational Exposures Among Healthcare Facility Workers. *Workplace health & safety*. 2024 Oct 23;73(2):53.

Patel J, Oluwafemi O, Tang T, Sunny A, Parmar N, Doshi H, Bhatt P, Donda K, Messiah SE, Dapaah-Siakwan F. Trends in the Mortality and Death of Periviable Preterm Infants in the United States, 2011 to 2020. *Am J Perinatol*. 2024 Nov 12. doi: 10.1055/a-2435-0908. Epub ahead of print. PMID: 39532113.

Patel J, Oluwafemi OO, Politis MD, Nembhard WN. The Association Between Dietary Supplement Use and COVID-19 Symptoms. *Journal of Dietary Supplements*. 2025 Jan 4:1-2.

Oluwafemi OO, Agopian AJ, Benjamin RH, de Porras DG, Shumate CJ, **Patel JR**. Demographic differences and potential bias from automated occupation coding among mothers of babies born with or without cleft lip and/or cleft palate in the Texas Birth Defects Registry. *Journal of Occupational and Environmental Medicine*. 66(10):p 839-847, October 2024.

GBD 2021 Demographics Collaborators. Global age-sex-specific mortality, life expectancy, and population estimates in 204 countries and territories and 811 subnational locations, 1950–2021, and the impact of the COVID-19 pandemic: a comprehensive demographic analysis for the Global Burden of Disease Study 2021. *The Lancet*. 2024 May 18;403(10440):1989-2056.

Oluwafemi O, Manoharan S, Xie L, Pro G, Patel RS, Delclos GL, Gelfand A, Messiah SE, Lopez DS, **Patel J**. Assessing the Role of Asthma on the Relationship between Neurodevelopmental Disabilities and Adverse Birth Outcomes. *Pediatric Neurology*. 2024 May 3.

Xie L, Chandrasekhar A, Ernest D, **Patel J**, Afolabi F, Almandoz JP, Martinez Fernandez T, Gelfand A, Messiah SE. Association between asthma, obesity, and metabolic syndrome in adolescents and young adults. *Journal of Asthma*. 2024 Apr 2;61(4):368-76.

Patel J, Politis MD, Howley MM, Browne ML, Bolin EH, Ailes EC, Johnson CY, Magann E, Nembhard WN, National Birth Defects Prevention Study. Fever and antibiotic use in maternal urinary tract infections during pregnancy and risk of congenital heart defects: Findings from the National Birth Defects Prevention Study. *Birth Defects Research*. 2024 Jan;116(1):e2281.

Patel J, Gimeno Ruiz de Porras D, Mitchell LE, Carson A, Whitehead LW, Han I, Pompeii L, Conway S, Zock JP, Henneberger PK, Patel R, De Los Reyes J, Delclos GL. Cleaning Tasks and Products and Asthma Among Healthcare Professionals. *J Occup Environ Med*. 2023 Oct 6. doi: 10.1097/JOM.0000000000002990. Epub ahead of print. PMID: 37801602.

Patel JR, Amick BC, Vyas KS, Bircan E, Boothe D, Nembhard WN. Gender Disparities in Symptomology of COVID-19 among Adults in Arkansas. *Preventive Medicine Reports*. 2023 Jun 23:102290.

Ong KL, Stafford LK, McLaughlin SA, Boyko EJ, Vollset SE, Smith AE, Dalton BE, Duprey J, Cruz JA, Hagins H, Lindstedt PA and **GBD 2021 Diabetes Collaborators** Global, regional, and national burden of diabetes from 1990 to 2021, with projections of prevalence to 2050: a systematic analysis for the Global Burden of Disease Study 2021. *The Lancet*. 2023 Jun 22.

Zhao Y, **Patel J**, Xu X, Zhang G, Li Q, Yi L, Luo Z. Development and validation of a prediction model to predict school-age asthma in preschool children. *Pediatric Pulmonology*. 2023 Jan 25.

Patel JR, Brown CC, Prewitt TE, Alfaneek Z, Stewart MK. Social determinants of health and COVID-19: An evaluation of racial and ethnic disparities in attitudes, practices, and mental health. *PLOS Global Public Health*. 2023 Jan 23;3(1):e0000558.

Bhatt P, Ampem-Darko C, Cudjoe GA, Parmar N, Oredein I, Asiamah AO, **Patel J**, Pemmasani S, Linga VG, Donda K, Doshi H, Dapaah-Siakwan F. Association between Neonatal Abstinence Syndrome and Congenital Anomalies in the United States. *Am J Perinatol*. 2022 Dec 26. doi: 10.1055/s-0042-1759864. Epub ahead of print. PMID: 36572036.

Howley, M. M., Fisher, S. C., Van Zutphen, A. R., Papadopoulos, E. A., **Patel, J.**, Lin, A. E., ... & National Birth Defects Prevention Study. Maternal exposure to heparin products and risk of birth defects in the National Birth Defects Prevention Study. *Birth Defects Research*. August 14, 2022.
<https://doi.org/10.1002/bdr2.2074>

Richard, M. A., **Patel, J.** (co-first), Benjamin, R. H., Bircan, E., Canon, S. J., Marengo, L. K., ... & Nembhard, W. N. (2022). Prevalence and Clustering of Congenital Heart Defects Among Boys With Hypospadias. *JAMA network open*, 5(7), e2224152-e2224152. 2022 July

Patel JR, Amick BC, Vyas KS, Bircan E, Boothe D, Nembhard WN. Racial disparities in symptomatology and outcomes of COVID-19 among adults of Arkansas. *Preventive Medicine Reports*. 2022 May 24;101840.

Pro G, Brown C, Rojo M, **Patel J**, Flax C, Haynes T. Downward National Trends in Mental Health Treatment Offered in Spanish: State Differences by Proportion of Hispanic Residents. *Psychiatric Services*. 2022 May 3;appi-ps.

Kocarnik, Jonathan M., Kelly Compton, Frances E. Dean, Weijia Fu, Brian L. Gaw, James D. Harvey, Hannah Jacqueline Henrikson **et al.** "Cancer incidence, mortality, years of life lost, years lived with disability, and disability-adjusted life years for 29 cancer groups from 2010 to 2019: a systematic analysis for the Global Burden of Disease Study 2019." *JAMA oncology* 8, no. 3 (2022): 420-444.

Hsu PC, Maity S, **Patel J**, Lupo PJ, Nembhard WN. Metabolomics Signatures and Subsequent Maternal Health among Mothers with a Congenital Heart Defect-Affected Pregnancy. *Metabolites*. 2022 Feb;12(2):100.

Alvarez EM and **GBD 2019 Adolescent Young Adult Cancer Collaborators**. The global burden of adolescent and young adult cancer in 2019: a systematic analysis for the Global Burden of Disease Study 2019. *The Lancet Oncology*. 2021 Dec 3.

Patel RS, Veluri N, **Patel J**, Patel R, Machado T, Diler R. Second-Generation Antipsychotics in Management of Acute Pediatric Bipolar Depression: A Systematic Review and Meta-analysis. *Journal of Child and Adolescent Psychopharmacology*. 2021 Oct 1;31(8):521-30.

Bryant K, Pro G, Rojo M, **Patel J**, Haynes T, McElfish P, Sepulveda M, Hart C. Identifying community needs of the Hispanic faith community to develop a research agenda. *Public Health Nursing*. 2021 Sep 21.

Wen S, Prasad A, Freeland K, Podury S, **Patel J**, Subedi R, Khan E, Tandon M, Kataria S, Kimble W, Sriwastava S. Clinical Characteristics and Outcomes of COVID-19 in West Virginia. *Viruses*. 2021 May;13(5):835.

Zhao Y, Yin L, **Patel J**, Tang L, Huang Y. The inflammatory markers of Multisystem Inflammatory Syndrome in children (MIS-C) and adolescents associated with COVID-19: A Meta-analysis. *Journal of Medical Virology*. 2021 Mar 19.

Patel J, Bircan E, Tang X, Orloff M, Hobbs CA, Browne ML, Botto LD, Finnell RH, Jenkins MM, Olshan A, Romitti PA. Paternal genetic variants and risk of obstructive heart defects: A parent-of-origin approach. *PLoS Genetics*. 2021 Mar 8;17(3):e1009413.

Henneberger PK, **Patel JR (Joint first author)**, de Groene GJ, Beach J, Tarlo SM, Pal TM, Curti S. The effectiveness of removal from exposure and reduction of exposure for managing occupational asthma: Summary of an updated Cochrane systematic review. *American journal of industrial medicine*. 2020 Dec, <https://doi.org/10.1002/ajim.23208>

Chowdhary A, Subedi R, Tandon M, Wen S, **Patel J**, Kataria S, Peterson S, Gwinn R, Elkhooly M, Prasad A, Nirwan L. Relevance and Clinical Significance of Magnetic Resonance Imaging of Neurological Manifestations in COVID-19: A Systematic Review of Case Reports and Case Series. *Brain Sciences*. 2020 Dec;10(12):1017.

Sriwastava S, Kataria S, Tandon M, **Patel J**, Patel R, Jowkar A, Daimee M, Bernitsas E, Jaiswal P, Lisak RP. Guillain Barré Syndrome and its variants as a manifestation of COVID-19: A systematic review of case reports and case series. *Journal of the Neurological Sciences*.;420:117263.

Tandon M, Kataria S, **Patel J**, Mehta TR, Daimee M, Patel V, Prasad A, Chowdhary AA, Jaiswal S, Sriwastava S. A Comprehensive Systematic Review of CSF analysis that defines Neurological Manifestations of COVID-19. *International Journal of Infectious Diseases*. 2021 Jan 9.

Wang H, Abbas KM, Abbasifard M, Abbasi-Kangevari M, Abbastabar H, Abd-Allah F, Abdelalim A, Abolhassani H, Abreu LG, Abrigo MR, Abushouk AI. et al (**GBD 2019 Demographics Collaborators**) Global age-sex-specific fertility, mortality, healthy life expectancy (HALE), and population estimates in 204 countries and territories, 1950–2019: a comprehensive demographic analysis for the Global Burden of Disease Study 2019. *The Lancet*. 2020 Oct 17;396(10258):1160-203.

Murray CJ, Abbafati C, Abbas KM, Abbasi M, Abbasi-Kangevari M, Abd-Allah F, Abdollahi M, Abedi P, Abedi A, Abolhassani H, Aboyans V. Five insights from the global burden of disease study 2019. **GBD Viewpoint Collaborators**. *The Lancet*. 2020 Oct 17;396(10258):1135-59.

Patel J, Schraw JM, Lupo PJ, Mian A, Nembhard WN. Cancer Risk by Attained Age among Children with Birth Defects in Arkansas. *Cancer Epidemiol*. 2020 Oct; 68:101796. PMID: 32827802.

Patel JR, Gimeno DG, Mitchell LE, Patel R, De Los Reyes J, Delclos GL (2020) *Work-Related Asthma among Certified Nurse Aides in Texas Workplace Health and Safety*, May 2020

Patel J, Nembhard WN, Politis MD, Rocheleau CM, Langlois PH, Shaw GM, Romitti PA, Gilboa SM, Desrosiers TA, Insaf T, Lupo PJ, and The National Birth Defects Prevention Study *Maternal Occupational Exposure to Polycyclic Aromatic Hydrocarbons and Congenital Heart Defects in Offspring* Submitted to *Environmental Research*, April 2020

Patel, R. S., Manocha, P., **Patel, J.**, Patel, R., & Tankersley, W. E. (2019). Cannabis Use Is an Independent Predictor for Acute Myocardial Infarction Related Hospitalization in Younger Population. *Journal of Adolescent Health*.

Madireddy, S., Patel, R.S., Ravat, V., Ajibawo, T., Lal, A., **Patel, J.**, Patel, R. and Goyal, H., 2019. Burden of Comorbidities in Hospitalizations for Cannabis Use-associated Intractable Vomiting during Post-legalization Period. *Cureus*, 11(8).

Henneberger, P. K., **Patel, J. R.**, de Groene, G. J., Beach, J., Tarlo, S. M., Pal, T. M., & Curti, S. (2019). Workplace interventions for treatment of occupational asthma. *Cochrane Database of Systematic Reviews*, (10).

Patel R S, Katta S, Patel R, Ravat V, Gudipalli R, Patel V, **Patel J.** (2018) Cannabis Use Disorder in Young Adults with Acute Myocardial Infarction: Trend Inpatient Study from 2010 to 2014 in the United States. *Cureus* 10(8): e3241. doi:10.7759/cureus.3241

Tarlo, S. M., Arif, A. A., Delclos, G. L., Henneberger, P., & **Patel, J.** (2017) Opportunities and obstacles in translating evidence to policy in occupational asthma. *Annals of Epidemiology*. doi:10.1016/j.annepidem.2017.03.002

Sinha AK, **Patel JR**, Shen Y, Ueno NT, Giordano SH, Tripathy D, et al. (2017) Location of Receipt of Initial Treatment and Outcomes in Long- Term Breast Cancer Survivors. *PLoS ONE* 12(1): e0170081.doi:10.1371/journal.pone.0170081

Yucel, A., **Patel, J.** and Pise, M. N. (2015), Effect of long-acting versus short-acting stimulants for the treatment of Attention Deficit Hyperactivity Disorder (ADHD) on emergency room visits using Medical Expenditure Panel Survey (MEPS) data. *Journal of Pharmaceutical Health Services Research*, 6: 43–46. doi: 10.1111/jphs.12083

B. 2. REPORTS

Browne C, Young SG, Tilford M, **Patel J**, Maity S, Alfaneek Z, Amick BC, Williams ML. COVID-19 Forecasts, Projections, and Impact Assessments – January 22, 2021 UAMS Fay W Boozman College of Public Health 2021 [January 20, 2021]. Available from: <https://publichealth.uams.edu/wp-content/uploads/sites/3/2021/01/UAMS-COPH-COVID-Report-22Jan2021.pdf>

Browne C, Young SG, Tilford M, **Patel J**, Maity S, Datta J, Alfaneek Z, Amick BC, Williams ML. COVID-19 Forecasts, Projections, and Impact Assessments – January 8, 2021 UAMS Fay W Boozman College of Public Health 2021 [January 8, 2021]. Available from: <https://publichealth.uams.edu/wp-content/uploads/sites/3/2021/01/COPH-COVID-REPORT-8jan2021-4.pdf>

Browne C, Young SG, Tilford M, **Patel J**, Maity S, Datta J, Amick BC, Williams ML. COVID-19 Forecasts, Projections, and Impact Assessments - Dec 8, 2020 UAMS Fay W Boozman College of Public

Health 2020 [December 18, 2020]. Available from: <https://publichealth.uams.edu/wp-content/uploads/sites/3/2020/12/COPH-COVID-Report-Dec-18-2020.pdf>.

Browne C, Young SG, Tilford M, **Patel J**, Maity S, Datta J, Amick BC, Williams ML. COVID-19 Forecasts, Projections, and Impact Assessments - Dec 4, 2020 UAMS Fay W Boozman College of Public Health 2020 [December 4, 2020]. Available from: <https://publichealth.uams.edu/wp-content/uploads/sites/3/2020/12/COPH-COVID-Report-4dec2020.pdf>

Browne C, Young SG, Tilford M, **Patel J**, Maity S, Datta J, Amick BC, Williams ML. COVID-19 Forecasts, Projections, and Impact Assessments – Nov 20, 2020 UAMS Fay W Boozman College of Public Health 2020 [November 20, 2020]. Available from: <https://publichealth.uams.edu/wp-content/uploads/sites/3/2020/11/UAMS-COPH-COVID-Report-20nov2020-FINAL.pdf>

Browne C, Young SG, Tilford M, **Patel J**, Maity S, Datta J, Amick BC, Williams ML. COVID-19 Forecasts, Projections, and Impact Assessments – Nov 6, 2020 UAMS Fay W Boozman College of Public Health 2020 [November 6, 2020]. Available from: <https://publichealth.uams.edu/wp-content/uploads/sites/3/2020/11/COPH-COVID-Report-Nov-5-final.pdf>

Browne C, Young SG, Tilford M, **Patel J**, Maity S, Hudson T, Datta J, Amick BC, Williams ML. COVID-19 Forecasts, Projections, and Impact Assessments – Oct 23, 2020 UAMS Fay W Boozman College of Public Health 2020 [October 23, 2020]. Available from: https://publichealth.uams.edu/wp-content/uploads/sites/3/2020/10/UAMS-COPH-COVID_19-COPH-23oct2020-FINAL.pdf

Browne C, Young SG, Tilford M, **Patel J**, Maity S, Datta J, Amick BC, Williams ML. COVID-19 Forecasts, Projections, and Impact Assessments – Oct 9, 2020 UAMS Fay W Boozman College of Public Health 2020 [October 9, 2020]. Available from: https://publichealth.uams.edu/wp-content/uploads/sites/3/2020/10/UAMS-COPH-COVID_19-Oct-9-FINAL.pdf

Browne C, Young SG, Tilford M, Fischbach L, **Patel J**, Maity S, Datta J, Tottori B, Amick BC, Williams ML. COVID-19 Forecasts, Projections, and Impact Assessments – Sept 23, 2020 UAMS Fay W Boozman College of Public Health 2020 [September 23, 2020]. Available from: https://publichealth.uams.edu/wp-content/uploads/sites/3/2020/09/UAMS-COPH-COVID_19-Sept23-Final.pdf

Browne C, Young SG, Tilford M, Fischbach L, **Patel J**, Maity S, Datta J, Tottori B, Amick BC, Williams ML. COVID-19 Forecasts, Projections, and Impact Assessments – Sept 9, 2020 UAMS Fay W Boozman College of Public Health 2020 [September 9, 2020]. Available from: https://publichealth.uams.edu/wp-content/uploads/sites/3/2020/09/UAMS-COPH-COVID_19-Sept11-Final.pdf

Browne C, Young SG, Tilford M, Fischbach L, **Patel J**, Maity S, Datta J, Tottori B, Amick BC, Williams ML. COVID-19 Forecasts, Projections, and Impact Assessments – Sept 1, 2020 UAMS Fay W Boozman College of Public Health 2020 [September 1, 2020]. Available from: <https://publichealth.uams.edu/wp-content/uploads/sites/3/2020/09/UAMS-COPH-COVID-report-27aug2020-6.pdf>

Browne C, Young SG, Tilford M, Fischbach L, **Patel J**, Maity S, Datta J, Tottori B, Amick BC, Williams ML. COVID-19 Forecasts, Projections, and Impact Assessments – Aug 14, 2020 UAMS Fay W Boozman College of Public Health 2020 [August 14, 2020]. Available from: <https://publichealth.uams.edu/wp-content/uploads/sites/3/2020/08/UAMS-COPH-COVID-report-14aug2020.pdf>

Browne C, Young SG, Tilford M, Fischbach L, **Patel J**, Maity S, Datta J, Amick BC, Williams ML. COVID-19 Forecasts, Projections, and Impact Assessments – Jul 30, 2020 UAMS Fay W Boozman

College of Public Health 2020 [July 30, 2020]. Available from: <https://publichealth.uams.edu/wp-content/uploads/sites/3/2020/08/COPH-COVID-Report-July-30.pdf>

Browne C, Young SG, Tilford M, Fischbach L, **Patel J**, Maity S, Datta J, Amick BC, Williams ML. COVID-19 Forecasts, Projections, and Impact Assessments – Jul 17, 2020 UAMS Fay W Boozman College of Public Health 2020 [July 17, 2020]. Available from: <https://publichealth.uams.edu/wp-content/uploads/sites/3/2020/07/July-17-report-Final.pdf>

Young SG, Datta J, Cothren J, Williamson M, Song G, Gibson K, Brown C, Villafranca AA, Sexton K, Tilford M, **Patel J**, Maity S, Fischbach L, Amick BC, Williams ML. Summary of Covid-19 Forecasting Models – July 3, 2020 UAMS Fay W Boozman College of Public Health 2020 [July 3, 2020]. Available from: <https://publichealth.uams.edu/wp-content/uploads/sites/3/2020/07/COPH-COVID-Report-3july2020.pdf>

B.3. PRESENTATIONS & ABSTRACTS

Ludorf KL, Benjamin RH, Allred RP, **Patel JR**, Nembhard WN, Shaw GM, Carmichael SL, Desrosiers TA, Nestoridi E, Williford EM, Swartz MD. Building Predictive Models for Preterm Birth Among Infants with Congenital Limb Defects. In BIRTH DEFECTS RESEARCH 2025 May 1 (Vol. 117, pp. S48-S48). Abstract

Han P, Benjamin RH, Ludorf KL, Allred RP, **Patel JR**, Nembhard WN, Shaw GM, Carmichael SL, Desrosiers TA, Nestoridi E, Williford EM. Maternal Smoking and Preterm Birth Among Infants with Orofacial Clefts. In BIRTH DEFECTS RESEARCH 2025 May 1 (Vol. 117, pp. S60-S60). Abstract

Oluwafemi OO, Mitchell LE, **Patel JR**, Nembhard WN, Reefhuis J, Chowdhury J, Shaw GM, Olshan A, Agopian AJ. Paternal Race and Ethnicity and Major Birth Defects in a National Case-Control Study, 1997-2011. In BIRTH DEFECTS RESEARCH 2025 May 1 (Vol. 117, pp. S61-S61). Abstract

Patel JR, Maity S, Weber K, Lou X, Petersen J, Nestoridi E, Yazdy M, Browne M, Botto L, Finnell RH, Lei Y. Genetic and Environmental Factors as Predictors of Nonsyndromic Congenital Heart Defects Using Machine Learning Techniques. In BIRTH DEFECTS RESEARCH 2025 May 1 (Vol. 117, pp. S76-S77). Abstract

Patel J, Maity S, Weber K, Lou X, Petersen J, Nestoridi E, Yazdy M, Browne M, Botto L, Finnell R, Lei Y, Olshan A, Romitti P, Shaw G, Jenkins M, Almli L, Nembhard WN. Genetic and Environmental Factors as Predictors of Non-syndromic Congenital Heart Defects Using Machine Learning Techniques. Society for Birth Defects Research and Prevention 2025 (BDRP) 65th Annual Meeting, Denver CO, June 28-July 2, 2025. Poster Presentation

Ludorf KL, Benjamin RH, Allred RP, **Patel JR**, Nembhard WN, Shaw GM, Carmichael SL, Desrosiers TA, Nestoridi E, Williford EM, Swartz MD. Building Predictive Models for Preterm Birth Among Infants with Congenital Limb Defects. Society for Birth Defects Research and Prevention 2025 (BDRP) 65th Annual Meeting, Denver CO, June 28-July 2, 2025. Poster Presentation

Han P, Benjamin RH, Ludorf KL, Allred RP, **Patel JR**, Nembhard WN, Shaw GM, Carmichael SL, Desrosiers TA, Nestoridi E, Williford EM. Maternal Smoking and Preterm Birth Among Infants with Orofacial Clefts. Society for Birth Defects Research and Prevention 2025 (BDRP) 65th Annual Meeting, Denver CO, June 28-July 2, 2025. Poster Presentation

Oluwafemi OO, Mitchell LE, **Patel JR**, Nembhard WN, Reefhuis J, Chowdhury J, Shaw GM, Olshan A, Agopian AJ. Paternal Race and Ethnicity and Major Birth Defects in a National Case-Control Study, 1997-2011. Society for Birth Defects Research and Prevention 2025 (BDRP) 65th Annual Meeting, Denver CO, June 28-July 2, 2025. Poster Presentation

Patel JR, Politis MD, Bolin EH, Famuyide L, Nembhard WN Racial and Ethnic Disparities in Mortality among Children with Congenital Heart Defects: A Scoping Review. Society for Epidemiological Research 2025, Boston June 10-13, 2025. Poster Presentation

Patel JR, Politis MD, Bolin EH, Famuyide L, Nembhard WN Racial and Ethnic Disparities in Mortality among Children with Congenital Heart Defects: A Scoping Review. Society for Perinatal Epidemiological Research 2025, Boston June 9-10, 2025. Poster Presentation

Holdiman, A., Ruleman, A., **Patel, J.**, Mantey, D. (2025). Opioid Route of Administration and Employment: Effects on Polysubstance Use Among Females and Implications for Harm Reduction. The Harm Reduction International Conference 2025, Bogotá, Colombia, 27-30 April 2025. Poster Presentation

Rathod AB, Elmir Digbeu BD, **Patel JR**, Lopez DS. Association of weight loss promoting medications with male breast cancer incidence, tumor grade, and stage: a SEER-Medicare nested case-control study. Cancer Research. AACR Annual Meeting 2025, Chicago, IL April 25-30. Poster Presentation

Rathod AB, Elmir Digbeu BD, **Patel JR**, Lopez DS. Association of weight loss promoting medications with male breast cancer incidence, tumor grade, and stage: a SEER-Medicare nested case-control study. Cancer Research. 2025 Apr 21;85(8_Supplement_1):7380-.

Patel J, Shah D, Holdiman A, Manoharan S, Nembhard W, Patel R, Messiah S. Abstract P1053: Impact of Adversity and Birth Outcomes on the Prevalence of Heart-Related Conditions in Children. Circulation. 2025 Mar 11;151(Suppl_1). Abstract

Holdiman, A., Ruleman, A., **Patel, J.**, & Mantey, D. (2025). The Impact of Opioid Route of Administration on Polysubstance Use Among Females. Collaborative Perspectives on Addiction Conference, Providence, Rhode Island. April 3 - 5 2025. Presentation

Patel J, Richard MA, Benjamin RH, Bircan E, Canon SJ, Marengo LK, Canfield MA, Agopian AJ, Lupo PJ, Nembhard WN. (2023) Prevalence and Clustering of Congenital Heart Defects among Boys with Hypospadias. Research Beyond Boundaries 2025, UTHealth Houston School of Public Health, Dallas, TX, March 14th, 2025. Poster Presentation

Patel J, Nembhard WN, Politis MD, Rocheleau CM, Langlois PH, Shaw GM, Romitti PA, Gilboa SM, Desrosiers TA, Insaf T, Lupo PJ, and the National Birth Defects Prevention Study. (2020). Maternal Occupational Exposure to Polycyclic Aromatic Hydrocarbons and the Risk of Isolated Congenital Heart Defects among Offspring. Research Beyond Boundaries 2025, UTHealth Houston School of Public Health, Dallas, TX, March 14th, 2025. Poster Presentation

Shah D, Manoharan S, Knell G, Holdiman A, Patel R, Luyu X, Messiah SE, Nembhard WN, **Patel J**. Influence of adverse birth outcomes on physical activity in childhood. Research Beyond Boundaries 2025, UTHealth Houston School of Public Health, Dallas, TX, March 14th, 2025. Poster Presentation

Shah D, Holdiman A, Manoharan S, Nembhard WN, Patel R, **Patel J**. Influence of Adverse Childhood Experiences and Birth Outcomes on Heart-related Conditions in Children. Research Beyond Boundaries 2025, UTHealth Houston School of Public Health, Dallas, TX, March 14th, 2025. Poster Presentation

Patel J, Shah D, Holdiman A, Manoharan S, Nembhard WN, Patel R. Influence of Adverse Childhood Experiences and Birth Outcomes on Heart-related Conditions in Children. AHA EpiLifestyle 2025, New Orleans, LA, March 6-9, 2025. Poster Presentation

Famuyide L, **Patel J**, and Nembhard WN. (2025). County-level Environmental Quality and Risk of Hypospadias in Arkansas. Arkansas Center for Birth Defects Research and Prevention, UAMS Office of Research Showcase, Little Rock, AR, Feb 5, 2025. Poster Presentation

Patel J, Nembhard WN, Politis MD, Rocheleau CM, Langlois PH, Shaw GM, Romitti PA, Gilboa SM, Desrosiers TA, Insaf T, Lupo PJ, and the National Birth Defects Prevention Study. (2020). Maternal Occupational Exposure to Polycyclic Aromatic Hydrocarbons and the Risk of Isolated Congenital Heart Defects among Offspring. Arkansas Center for Birth Defects Research and Prevention, UAMS Office of Research Showcase, Little Rock, AR, Feb 5, 2025. Poster Presentation

Patel J, Richard MA, Benjamin RH, Bircan E, Canon SJ, Marengo LK, Canfield MA, Agopian AJ, Lupo PJ, Nembhard WN. (2023) Prevalence and Clustering of Congenital Heart Defects among Boys with Hypospadias. Arkansas Center for Birth Defects Research and Prevention, UAMS Office of Research Showcase, Little Rock, AR, Feb 5, 2025. Poster Presentation

Patel J, Maternal Occupations and Occupational Exposures: Impacts on Birth Defects in Epidemiological Research. EOHS Doctoral Seminar Series, UTHealth Houston School of Public Health, Houston, TX. November 8, 2024. Seminar Presentation

Ernest DK, Xie L, **Patel J**, Almandoz JP, Messiah SE. Association Between Plasticizers and Body Composition Among United States Adults, 2011-2018. ObesityWeek (The Obesity Society's annual meeting), San Antonio, TX, November 3-6, 2024. Poster Presentation (Accepted)

Xie L, Ernest DK, **Patel J**, Almandoz JP, Messiah SE. Association Between Plasticizers and the Metabolic Syndrome in United States Adolescents and Young Adults. ObesityWeek, (The Obesity Society's annual meeting), San Antonio, TX, November 3-6, 2024. Oral Presentation (Accepted)

Shah D, Manoharan S, Knell G, Holdiman A, Patel R, Luyu X, Messiah SE, Nembhard WN, Patel J. Influence of adverse birth outcomes on physical activity in childhood. American Public Health Association Conference, Oct 27-30, 2024, Minneapolis. Poster Presentation

Oluwafemi O, Agopian AJ, Benjamin RH, Gimeno D, Shumate C, **Patel J**. Maternal Characteristics by Manual versus Automated Occupation Coding Among Infants with Cleft Lip and/or Palate. 2024 Society for Epidemiologic Research, Austin, June 18-21. Poster Presentation

Famuyide L, **Patel J**, Nembhard WN. County-Level Environmental Quality and Risk of Hypospadias in Arkansas. 2024 Society for Epidemiologic Research, Austin, June 18-21. Poster Presentation

Villamil VL, Downing KF, Andrews JG, Oster ME, Galindo MK, **Patel J**, Nembhard WN, Klewer SE, Farr SL. Comorbidities and Healthcare Utilization Among Young Adults with Congenital Heart Defects by Down Syndrome Status. 2024 Society for Epidemiologic Research, Austin, June 18-21. Poster Presentation

Patel J, Oluwafemi O, Agopian AJ, Benjamin R, Shumate C, Gimeno D. Abstract P296: The Association Between Maternal Occupation and Adverse Birth Outcomes Among Infants With Congenital Heart Defects. *Circulation*. 2024 Mar 19;149(Suppl_1):AP296-. Abstract

Patel J, Oluwafemi O, Agopian AJ, Benjamin R, Shumate C, Gimeno D. The Association Between Maternal Occupation and Adverse Birth Outcomes Among Infants With Congenital Heart Defects. *Circulation*. 2024 AHA EpiLifestyle Conference, Chicago, March 18-21. Poster Presentation

Patel J, Fernandez A, Oluwafemi OO, Bala SA, Holdiman A. Maternal drug use during pregnancy and asthma risk among children. 2023 American Public Health Association, Atlanta, Nov 12-15. Poster Presentation

Nembhard WN, **Patel J**, Oluwafemi O, Politis M, Koturbash I. (2023) Dietary Supplement Use and Self-Reported Symptoms among Adults Real-Time Chain Polymerase Reaction (RT-PCR) Tested for Coronavirus 2019 (COVID-19). 35th Annual Conference of the International Society for Environmental Epidemiology, 2023, Taiwan. Sep 17-21. Poster Presentation

Patel J, Politis MD, Bolin EH, Thomas SL, Nembhard WN. (2023) Racial/Ethnic Disparities in Mortality among Infants with Birth Defects or Neonatal Abstinence Syndrome. 2023 National Birth Defects Prevention Network Conference (NBDPN), Atlanta, GA. August 14-16. Oral Presentation

Patel J, Oluwafemi O, Manoharan S, Luyu X, Messiah S. (2023) Assessing the role of asthma on the relationship between adverse birth outcomes and neurodevelopmental disabilities. Society for Epidemiologic Research (SER) 2023, Portland, OR. June 13-16. Poster Presentation

Allen A, Oluwafemi O, Patel J. (2023) Adverse Birth Outcomes And Cardiometabolic Outcomes Among Multiracial Children In The U.S. Research Beyond Boundaries at UTHealth Houston School of Public Health at Dallas 2023, Dallas, TX. April 20-21. Poster Presentation

Patel J, Amick BC, Vyas KS, Bircan E, Boothe D, Nembhard WN. (2023 – Abstract selected – No presentation) Racial and gender disparities in self-reported COVID-19 symptoms among adults, Arkansas, 2020. SeroNet Investigators Meeting, Bethesda, MD. March 21-23, 2023. Poster Abstract Selected

Allen A, Oluwafemi O, **Patel J**. (2023) Adverse Birth Outcomes And Cardiometabolic Outcomes Among Multiracial Children In The U.S. American Heart Associations Epi Lifestyle Scientific Sessions, 2023, Boston, MA. Feb 28 – Mar 3. Poster Presentation

Patel J, Richard MA, Benjamin RH, Bircan E, Canon SJ, Marengo LK, Canfield MA, Agopian AJ, Lupo PJ, Nembhard WN. (2023) Prevalence and Clustering of Congenital Heart Defects among Boys with Hypospadias. International Conference on Birth Defects and Disabilities in the Developing World. Santiago, Chile. March 1-4, 2023. Oral Presentation

Patel J, Politis MD, Bolin EH, Nembhard WN. (2023) Prevalence & Mortality of Congenital Heart Defects by Race & Ethnicity: Scoping Review. Prevalence and Clustering of Congenital Heart Defects among Boys with Hypospadias. International Conference on Birth Defects and Disabilities in the Developing World. Santiago, Chile. March 1-4, 2023. Oral Presentation

Patel J, Richard MA, Benjamin RH, Bircan E, Canon SJ, Marengo LK, Canfield MA, Agopian AJ, Lupo PJ, Nembhard WN. (2022) Prevalence and Clustering of Congenital Heart Defects among Boys with

Hypospadias. 48th International Clearinghouse for Birth Defects Surveillance and Research Annual Meeting, Bologna BO, Italy. September 18-21. Poster Presentation

Allen A, **Patel J.** (2022) Adverse birth outcomes and cardiometabolic outcomes among multiracial children in the U.S. Summer Scholars Presentations at the Center for Pediatric Population Health, Dallas, TX. August 12. Seminar Presentation

Manoharan A, Oluwafemi O, Luyu Xie, Messiah SE, **Patel J.** (2022). Assessing role of asthma as a modifier between adverse birth outcomes and neurodevelopmental disorders. Summer Scholars Presentations at the Center for Pediatric Population Health, Dallas, TX. August 12. Seminar Presentation

Oluwafemi O, Manoharan A, Luyu Xie, Messiah SE, **Patel J.** (2022) Assessing role of asthma as a modifier between adverse birth outcomes and neurodevelopmental disorders. Research Beyond Boundaries Virtual Conference, Dallas, TX. May 6. Poster Presentation.

Patel J, Agopian AJ, Delclos GL, Malik S, Messiah SE. (2021). Constructing a Job-Exposure Matrix to evaluate Maternal Occupational Exposures to Cleaning Agents and Risk of Congenital Heart Defects in Texas. EX4OSH International Conference, Houston, TX. December 9-10. Poster Presentation

Patel, J, Henneberger, P. K., de Groene, G. J., Beach, J., Tarlo, S. M., Pal, T. M., & Curti, S. (2021). Workplace interventions for treatment of occupational asthma. Cochrane Database of Systematic Reviews. EX4OSH International Conference, Houston, TX. December 9-10. Poster Presentation

Patel J, Nembhard WN, Politis MD, Rocheleau CM, Langlois PH, Shaw GM, Romitti PA, Gilboa SM, Desrosiers TA, Insaf T, Lupo PJ, and the National Birth Defects Prevention Study. (2020). Maternal Occupational Exposure to Polycyclic Aromatic Hydrocarbons and the Risk of Isolated Congenital Heart Defects among Offspring. EOHS Doctoral Seminar Series, University of Texas Health Science Center at Houston (UTHealth) School of Public Health, Houston, TX. October 29. Seminar Presentation

Pro G, **Patel J,** Haynes T. (2021) National temporal trends in mental health services offered in spanish language. American Public Health Association 2021 Annual Meeting & Expo, Denver and Online. October 27. Poster Presentation

Richard M, **Patel J,** Agopian AJ, Benjamin R, Lupo PJ, Nembhard WN (2021). Hypospadias and Congenital Heart Defects. Research in Progress Meeting, University of Arkansas for Medical Sciences, Little Rock, AR. September 1. Presentation.

Patel J, Nembhard WN, Politis MD, Rocheleau CM, Langlois PH, Shaw GM, Romitti PA, Gilboa SM, Desrosiers TA, Insaf T, Lupo PJ, and the National Birth Defects Prevention Study. (2020). Maternal Occupational Exposure to Polycyclic Aromatic Hydrocarbons and the Risk of Isolated Congenital Heart Defects among Offspring. Society for Epidemiologic Research Annual Meeting 2020, Boston, Massachusetts, June. Poster Presentation

Politis MD, **Patel J,** Lupo PJ, Maity S, Romitti PA, Browne ML, Shaw GM, Jenkins MM, Nembhard WN and the National Birth Defects Prevention Study. (2020). Folate-Sensitive Birth Defects and Family History of Down Syndrome in the National Birth Defects Prevention Study. Society for Epidemiologic Research Annual Virtual Meeting, December. Poster Presentation

Politis MD, **Patel J,** Lupo PJ, Maity S, Romitti PA, Browne ML, Shaw GM, Jenkins MM, Nembhard WN and the National Birth Defects Prevention Study. (2020). Folate-Sensitive Birth Defects and Family

History of Down Syndrome in the National Birth Defects Prevention Study. Society for Pediatric and Perinatal Epidemiologic Research Annual Meeting, Boston, Massachusetts, December 15. Abstract

Patel J, Nembhard WN, Politis MD, Rocheleau CM, Langlois PH, Shaw GM, Romitti PA, Gilboa SM, Desrosiers TA, Insaf T, Lupo PJ, and the National Birth Defects Prevention Study. (2020). Maternal Occupational Exposure to Polycyclic Aromatic Hydrocarbons and the Risk of Isolated Congenital Heart Defects among Offspring. Submitted to Society for Pediatric and Perinatal Epidemiologic Research Annual Meeting 2020, Boston, Massachusetts, December 15. Abstract

Hsu P-C, Gokun Y, **Patel J**, Maity SM, Lupo PJ, Nembhard WN (2020). Metabolomics Signatures among Mothers with a Congenital Heart Defect-Affected Pregnancy. Metabolomics 2020 – 16th Annual Conference of the Metabolomics Society. Poster Presentation

Patel, J, Henneberger, P. K., de Groene, G. J., Beach, J., Tarlo, S. M., Pal, T. M., & Curti, S. (2019). Workplace interventions for treatment of occupational asthma. Cochrane Database of Systematic Reviews, American Public Health Association Virtual Meeting 2020. October 24-28

Patel J, Lupo PJ, Schraw JM, Mian A, Nembhard WN (2020). Pediatric cancer risk based on attained age among children with birth defects in Teratology Society for Birth Defects Research 2020 Virtual Conference, Charleston, South Carolina June 27-July 1 Poster Presentation

Patel J, Lupo PJ, Schraw JM, Mian A, Nembhard WN (2020). Pediatric cancer risk based on attained age among children with birth defects in Teratology Society for Birth Defects Research 2020 Virtual Conference, Charleston, South Carolina June 27-July 1 Abstract

Patel J, Politis MD, Howley MM, Browne ML, Bolin EH, Ailes EC, Johnson CY, Magann EF, Nembhard WN, and the National Birth Defects Prevention Study (2020). 2020 National Birth Defects Prevention Network Annual Meeting (NBDPS Scientific Session), Arlington, Virginia, March 10. Oral Presentation

Politis MD, **Patel J**, Lupo PJ, Maity S, Romitti PA, Browne ML, Shaw GM, Jenkins MM, Nembhard WN and the National Birth Defects Prevention Study. (2020). Family History of Down Syndrome and Risk of Folate-Sensitive Birth Defects: Findings from the National Birth Defects Prevention Study. Submitted to 2020 National Birth Defects Prevention Network Annual Meeting, Arlington, Virginia, March 10. Poster Presentation

Patel J, Nembhard WN, Politis MD, Rocheleau CM, Langlois PH, Shaw GM, Romitti PA, Gilboa SM, Desrosiers TA, Insaf T, Lupo PJ, and the National Birth Defects Prevention Study. (2020). Maternal Occupational Exposure to Polycyclic Aromatic Hydrocarbons and the Risk of Isolated Congenital Heart Defects among Offspring. Seminar Presentation, Department of Epidemiology, Fay W. Boozman College of Public Health, University of Arkansas for Medical Sciences. November 12

Politis MD, **Patel J**, Lupo PJ, Maity S, Romitti PA, Brown ML, Shaw GM, Jenkins MM, Nembhard WN for the National Birth Defects Prevention Study. (2019). Are Rates of Down Syndrome Elevated in Families of Cases with Neural Tube and Other Folate-Affected Birth Defects? Poster Presentation, Women's Faculty Development Caucus 30th Anniversary: A Poster Showcase of Women in Research. University of Arkansas for Medical Sciences, Little Rock, Arkansas, November 7.

Patel, J., Gimeno D, Delclos G “Work-Related Asthma and Asthma Symptoms among Certified Nurse Aides in Texas.” Poster Presentation, UT Health SPH Student Research Day 2017, UTSPH, Houston, TX, April 5, 2018

Patel, J., Gimeno D, Delclos G “Work-Related Asthma among Certified Nurse Aides in Texas.” Oral Presentation for Seminar, Respiratory Health Division Seminar, CDC/NIOSH, Morgantown, WV, September 13, 2017

Patel, J., “Work-Related Asthma among Certified Nurse Aides in Texas.” Oral Presentation, UT Health SWCOEH Pilot Projects Symposium, University of Texas School of Public Health, Houston, TX, June 2, 2017

Patel, J., Gimeno D, Delclos G “Constructing and Updating a Job-Exposure Matrix (JEM) for use with a Statewide Survey of Asthma in Texas Healthcare Professionals (HCPs).” Poster Presentation, UT Health SPH Student Research Day 2017, UTSPH, Houston, TX, April 6, 2017

Patel J., Delclos G.L, Gimeno D. (2016), “Work-Related Asthma among Nurse Aides in Texas – A Pilot Study” Poster Presentation, UTHealth SPH Student Research Day 2015, University of Texas School of Public Health, Houston, TX, March 31, 2016

Yucel, A., **Patel, J.** and Pise, M. N. (2015), Reduction in ER Visits of ADHD Patients: Effect of Long and Short-Acting Stimulants. Poster Presentation, ISPOR 20th Annual International Meeting, Philadelphia, PA, USA, May 18, 2015

Patel, J., Sinha, A, Lopez, D., Barcenas, C. “Referral Bias in Breast Cancer Survivorship Research: Evaluation of Clinical and Epidemiologic Factors.” Poster Presentation, UTHealth SPH Student Research Day 2015: "Building broader connections," University of Texas School of Public Health, Houston, TX, April 9, 2015

Patel, J., Sinha, A, Lopez, D., Barcenas, C. “Referral Bias in Breast Cancer Survivorship Research: Evaluation of Clinical and Epidemiologic Factors.” Poster Presentation, 2015 Third State of the Science Cancer Survivorship Research Symposium Maximizing Cancer Survivors’ Health through Innovative Research, Dan L. Duncan Building, MD Anderson Cancer Research Institute, Houston, TX, February 12, 2015

Yucel, A., **Patel, J.** and Pise, M. N. (2015), Effect of long-acting versus short-acting stimulants for the treatment of Attention Deficit Hyperactivity Disorder (ADHD) on emergency room visits using Medical Expenditure Panel Survey (MEPS) data. Poster Presentation, 15th Annual Health Services & Outcomes Research Conference, Houston, TX, December 9, 2014.

Patel J., Glaser D., Shearer S. (2013). “Behavior-Based Approach for Drug Abuse: History and Need.” Poster Presentation, 65th Annual KPHA Meeting, Louisville, KY, March 26 – 28, 2013.

Patel J., Watkins C. (2012). “Childhood Asthma: Kentucky Compared to the Nation.” Poster Presentation, 64th Annual KPHA Meeting, Louisville, KY. March 27-30, 2012.

Sewage Treatment Plant and its health effects in surrounding population in Vadodara city. Speaker at Department of Community Medicine, Smt. B. K. Shah Medical Institute and Research Center, Vadodara, India, January 2011.

Invited Lectures

EOHS Doctoral Research Seminar Series (Houston, TX)
UTHealth Houston School of Public Health

Maternal Occupations and Occupational Exposures: Impacts on Birth Defects in Epidemiological Research
November 2024

EPSA November 2023 Meeting (Houston, TX)
UTHealth Houston School of Public Health
SWCOEH Trainee Program
November 2023

Summer Scholars Seminar Series 2023 (Dallas, TX)
UTHealth Houston School of Public Health at Dallas, TX
Epidemiology of Birth Defects: Focus on occupational exposures and co-occurrence patterns
June 2023

U.N. Mehta Cardiology Institute and Research Center (Ahmedabad, Gujarat, India)
Patient Data Collection - Observational data and health services research
February 2023

Spring Kickoff Faculty Research Elevator Speeches (Dallas, TX)
Research Area Expertise
January 2023

Birth Defects Symposium – Texas Medical Center
Prevalence and clustering of Congenital Heart Defects among Boys with Hypospadias
January 2023

Dallas Student Association Fall 2022 Journal Club (Dallas, TX)
Prevalence and clustering of Congenital Heart Defects among Boys with Hypospadias
November 2022

Epidemiology 2 Class Guest Lecture (Dallas, TX)
Survey Methodology
Sept 2022

Southwest Center for Occupational and Environmental Health Retreat (El Paso, TX)
Pilot Projects Research Training Program Overview
July 2022

U.N. Mehta Cardiology Institute and Research Center (Ahmedabad, Gujarat, India)
Research Methods & Implementation of Practice in the Field of Cardiology
April 2022

C. GRANTS AND CONTRACTS

Ongoing

1. CDC U01DD000060 09/30/2024 – 09/29/2029
Surveillance of Congenital Heart Defects Among Children, Adolescents, and Adults: Component A (UTHealth)
National Center on Birth Defects & Developmental Disabilities/CDC/DHHS (NCBDDD)

Role: Co-Investigator

2. CDC/NIOSH T42OH008421

07/01/2020 – 6/30/2026

Sarah E. Felknor (PI)

Pilot Project Research Training Program

Occupational Epidemiology Doctoral Research Training Program

Southwest Center for Occupational and Environmental Health, the National Institute for Occupational Safety and Health Education and Research Center (NIOSH-ERC) at UTHealth School of Public Health
CDC/NIOSH

Role: Program Director

3. NIH/NIEHS R01

10/16/2022 – 10/15/2024

David Gimeno (PI)

National Institutes of Health

Study of Cleaners in San Antonio: Immunologic and Inflammatory Responses to Total Volatile Organic Compound (VOC) Exposure

Role: Co-Investigator

6. CDC U01DD001309

09/01/2023 - 02/28/2027

Agopian (PI)

Birth Defects Study To Evaluate Pregnancy exposures (BD-STEPS) III Core – Texas

Role: Co-Investigator

7. CDC U01DD001306

09/01/2023 - 02/28/2027

Nembhard (PI)

Birth Defects Study To Evaluate Pregnancy exposures (BD-STEPS) III Core and Component B Stillbirth - Arkansas

Role: Co-Investigator

Under Review

1. Advanced Research Projects Agency For Health (ARPA-H)

01/01/2026 - 12/31/2030

Aldrich (PI)

LymphVax for prevention and cure of lymphedema

Role: Co-Investigator

2. March of Dimes

02/01/2026 - 01/31/2028

Outdoor Work and Extreme Temperature Exposure During Pregnancy: Occupational Risk Factors for Preterm Birth Among Birth Defects in Texas

Role: Principal Investigator (Co-I Agopian, Co-I Lanza)

Completed

1. NU50DD000102\HHS000962600001

08/24/2021 – 04/30/2025

Agopian (PI)

Strengthened Birth Defects Surveillance in Texas: Innovative Data Linkages, Applied Epidemiology, and Enhanced Prevention and Outreach

Role: Co-Investigator

2. SWCOEH Pilot Projects Research Training Program

07/01/2024 – 06/30/2025

PI - Anna Holdiman - Breathing Under Pressure: The Prevalence of Work-Related Asthma Among Certified Nurse Aides from 2018 – 2023.

National Institute for Occupational Safety & Health/CDC/DHHS (NIOSH) - Pilot Grant

Role: Faculty Mentor and Co-Investigator (In-kind).

3. SWCOEH Pilot Projects Research Training Program 07/01/2023 – 06/30/2024

PI - Omobola Oluwafemi The association between maternal occupational exposures and adverse birth outcomes among infants with birth defects

National Institute for Occupational Safety & Health/CDC/DHHS (NIOSH) - Pilot Grant

Role: Faculty Mentor and Co-Investigator (In-kind).

4. EACB-23278 11/30/2021 – 11/29-2023

Bryant-Moore (PI)

Patient-Centered Outcomes Research Institute

Faith-based PCOR training for researchers

Role: Co-Investigator

5. CDC U01DD001229-01-00 09/01/2018 – 08/31/2023

Nembhard (PI)

Birth Defects Study to Evaluate Pregnancy Exposures (BD-STEPS)

Role: Center Collaborator

6. 1R01OH010648-01 08/01/2014 – 07/31/2018

Delclos (PI), Gimeno (PI)

Asthma in Texas Healthcare Workers II

Role: Graduate Research Assistant

7. 10703-UAMS 10/15/2018 – 10/15/2021

Bryant-Moore (PI)

Patient-Centered Outcomes Research Institute

FAITH Network Research Advocates

Role: Co-Investigator

8. 5T42OH008421 08/01/2016 – 07/31/2017

Patel (PI), Delclos (PI), Gimeno (PI)

Work-Related Asthma among Certified Nurse Aides in Texas

Role: Principal Investigator

Not awarded/Resubmission

1. Center for Clinical & Translational Sciences – UTHealth Submitted 7/31/2021

Patel (PI), Messiah (Co-I), Delclos (Co-I), Gelfand (Co-I), Martinez (Co-I), Johnson (Co-I)

Association of use of cleaning products with respiratory health in children of North Texas

Role: Principal Investigator

2. UTHealth Faculty PRIME Award 2022 Submitted 7/30/2021

Patel (PI), Messiah (Co-I), Gelfand (Co-I), Delclos (Co-I)

Faculty Mentor: Dr. Sarah E. Messiah, PhD

Effects of COVID-19 pandemic on asthma hospital utilization and co-occurring mental health conditions

Role: Principal Investigator

3. NIMHD (U54MD000239) (\$50,000)

11/15/2019 – 11/14/2020

Arkansas Center for Health Disparities

Patel (PI), Nembhard(Co-I), Delclos (Co-I)

Disparities in Occupational Exposure to Asthmagens and Birth Outcomes in Arkansas

D. PROFESSIONAL SERVICE

Academic Journals

Editorial Role

PLOS Global Public Health – Academic Editor

Children – Guest Editor - Special Issue "Advances in the Treatment and Management of Congenital Heart Defects"

Reviewer

Paediatric & Perinatal Epidemiology

Cleft Palate Craniofacial Journal

Journal of Pediatric Urology

Medicine (EM)

JAMA Pediatrics

American Journal of Public Health

World Journal of Pediatrics

Paediatric and Perinatal Epidemiology

BMC Pregnancy and Childbirth

Birth Defects Research

Obesity Research and Clinical Practice

Nutrients MDPI

Clinical Epidemiology

International Journal of Environmental Research and Public Health MDPI

Cureus

Sexes MDPI

Environmental Research

BMC Medical Education

Books

Elsevier – Reviewer (Targeted Therapy for Central Nervous System: Formulation, Clinical Challenges and Regulatory Strategies – Viral Patel; 2023)

Elsevier – Author (Chapter) (Targeted Therapy for Central Nervous System: Formulation, Clinical Challenges and Regulatory Strategies – Viral Patel; October 2024)

Institutional Service

2024 Member – Epidemiology Preliminary Examination Committee

2024 Member – UTHealth Houston Faculty IT Advisory Committee

2024	Member – UTHealth Faculty Practice Council
2024	Annual Practicum Day Judge
2023	Annual Practicum Day Judge
2023	Epidemiology Preliminary Exam Faculty Proctor
2021	Epidemiology Preliminary Exam Faculty Proctor

Grant Reviews

2021	Grant Reviewer, Children's Clinical Research Advisory Council (CCRAC) 2021
2021-2023	Grants Program Director, NIOSH SWCOEH-ERC Pilot Projects Research Training Program
2023	Grant Reviewer, NIOSH SWCOEH-ERC Pilot Projects Research Training Program
2023	Grant Reviewer, UT Tyler Southwest Ag Center Pilot Projects

Professional Service

National Birth Defects Prevention Network (Committee Member – Publications and Communications)
 National Birth Defects Prevention Network (Committee Member – Diversity and Inclusion)
 Health Equity Leadership Institute (HELI), Madison WI – Scholar and Alumni
 Kentucky Public Health Association (2012-13) – WKU Chapter – Activities Chair Coordinator
 NIOSH's Alice Hamilton Award nominations for the Epidemiology and Surveillance category – Reviewer
 NIOSH Annual Southwest Centers Symposiums – Host and Organizer

Memberships

Society for Epidemiologic Research
 Society for Pediatric and Perinatal Epidemiologic Research
 Society for Birth Defects Research and Prevention
 Cochrane Systematic Reviews
 Arkansas Public Health Association
 Kentucky Public Health Association – WKU Chapter
 Texas Public Health Association (TPHA) – Member

Volunteer Activities

2024	Participated in CDC/BD-STEPS Stillbirth Component Replication
2024	SER 2024 Abstract Reviewer
2024	National Birth Defects Prevention Study – Data Sharing Editor
2020-21	COVID-19 Outbreak Activities Volunteer, University of Arkansas for Medical Sciences
2018	Epidemiology Program Volunteer Researcher, Harris County Public Health, Houston, TX
2014-15	Volunteer Graduate Research Assistant, The University of Texas School of Public Health, Houston, TX

E. TEACHING/ADVISING

E.1. Courses at UTHealth - School of Public Health

Semester	Course Name
Spring 2022	Epidemiology III
Spring 2022	Practicum
Spring 2023	Epidemiology III

Summer 2023	Injury Epidemiology
Spring 2024	Applied Epidemiological Analysis
Summer 2024	Injury Epidemiology
Fall 2024	Epidemiology III

E.1. Internship/Practicum/Research Volunteer Advisor

Student Name	Term	Location	Topic
Tiffany Tang	Summer 2023	Center for Pediatric Population Health	Pediatric and Perinatal Epidemiology
Abigail Allen	Summer 2022	Center for Pediatric Population Health	Pediatric and Perinatal Epidemiology
Sneha Manoharan	Summer 2021-Current	Center for Pediatric Population Health	Pediatric and Perinatal Epidemiology
Shilpa Vishwasrao-Patil	Fall 2021-Current	Center for Pediatric Population Health	Pediatric Epidemiology
Swapnil Gupta	Fall 2021-Current	Center for Pediatric Population Health	Pediatric Epidemiology

E.2. Dissertation/Thesis Committees

Student Name	Degree	Dissertation/Thesis Title	Role
Suzanne Monsour	PhD	The Impact of Outpatient and Specialty Care Before, During and After Hospitalization on 30-Day Hospital Readmission Rates for Patients with Type 2 Diabetes	Breadth Advisor
Shabnam Bhuiyan	PhD	Presenteeism in Texas HealthCare Workers: The Role of Shiftwork and Asthma	External Reviewer
Fatima Sheriff	PhD	Epidemiologic Features of Preterm Birth among Infants with Trisomy 21 in Texas, 1999-2018	Committee Member
Kelly Oyer-Peterson	PhD	Health and Health Behaviors by Occupation among Employed Houston Residents in 2010 and 2018	Chair
Deepali Ernest	PhD	The Social and Structural Determinants of Polycystic Ovarian Syndrome Among Women of Reproductive Age in the United States.	Chair
Emma Bergqvist	PhD	Pediatric Long COVID: Associations of Race, Ethnicity, and Social Determinants of Health at the Household Level	Advisor
Alvin Estacio	PhD	Characterizing Cardiovascular Disease (CVD)-Related Workplace Health Promotion Program Participation (WHPP) Among Building Cleaning Workers and Employers in the United States	Advisor
Aparajita Chandrashekhar	PhD	Obesity Severity, Discrimination and Sleep Health in United States	Chair
Kimberly Hsu	PhD	Comparing Effectiveness of Direct Primary Care on Cost, Disease Prevention and Clinical Outcomes Across Employer Groups	Breadth Advisor

E.3. Student/Trainee Advisor

(2021 – present, all UTSPH students are in Epidemiology unless otherwise noted)

Student Name	Institution	Degree	Years Served	Role
Deep Shah	UTHealth-SPH	PhD	2025 - Ongoing	Academic Advisor
Aparajita Chandrashekhar	UTHealth-SPH	PhD	2024 - Ongoing	Academic Advisor
Emma Bergqvist	UTHealth-SPH	PhD	2024 - Ongoing	Academic Advisor
Aro Choi	UTHealth-SPH	PhD	2023 - Ongoing	Academic Advisor
Alvin Estacio	UTHealth-SPH	PhD	2023 - Ongoing	Academic Advisor
Kelly Oyer-Peterson	UTHealth-SPH	PhD	2023 - Ongoing	Academic Advisor
Anna Holdiman	UTHealth-SPH	PhD	2022 - Ongoing	Academic Advisor
Karen Alvarez	UTHealth-SPH	MPH	2025 - Ongoing	Academic Advisor
Maria Valencia	UTHealth-SPH	MPH	2022 - Ongoing	Academic Advisor
Ricardo Sanchez	UTHealth-SPH	MPH	2024 - Ongoing	Academic Advisor
Lauren Payne	UTHealth-SPH	MPH	2024 - Ongoing	Academic Advisor
Lajjaben Patel	UTHealth-SPH	MPH	2024 - Ongoing	Academic Advisor
Callan Kaut	UTHealth-SPH	MPH	2024 - Ongoing	Academic Advisor
Shamail Ali	UTHealth-SPH	MPH	2022 - Ongoing	Academic Advisor
Ashlynn Singh	UTHealth-SPH	MPH	2022 - 2024	Academic Advisor
Elyse McNamara-Pittler	UTHealth-SPH	MPH	2022 - 2024	Academic Advisor
Patrick Baziha	UTHealth-SPH	MPH	2022 - 2025	Academic Advisor
Kathy Tran	UTHealth-SPH	MPH	2022 - Ongoing	Academic Advisor
Ronjae Brady	UTHealth-SPH	MPH	2021 - Ongoing	Academic Advisor
Yasmin Hamad	UTHealth-SPH	MPH	2021 - 2024	Academic Advisor
Victoria Hung	UTHealth-SPH	MPH	2021 - Ongoing	Academic Advisor
Thea Pascual	UTHealth-SPH	MPH	2021 - Ongoing	Academic Advisor
Marissa Beaver	UTHealth-SPH	MPH	2021 - Ongoing	Academic Advisor
Angie Benedetto	UTHealth-SPH	MPH	2021 - Ongoing	Academic Advisor
Sudha Khakurel	UTHealth-SPH	MPH	2021 - 2025	Academic Advisor
Aishwarya Reddy	UTHealth-SPH	MPH	2021 - 2022	Academic Advisor

F. MEDIA COVERAGE

Media coverage of co-authored COVID-19 reports (listed above in B.2. section). Addressed by school officials (Chancellor, Dean, and Associate Dean of Research at UAMS)

FOX 24, December 2020, Title: UAMS: Short-term forecast shows significant growth in COVID-19 cases over next two weeks. [UAMS: Short-term forecast shows significant growth in COVID-19 cases over next two weeks | KNWA FOX24 \(nwahomepage.com\)](https://www.knwa.com/story/news/2020/12/24/uams-short-term-forecast-shows-significant-growth-in-covid-19-cases-over-next-two-weeks/3401447001/)

4029TV, December 2020, Title: UAMS: Expect high rate of COVID-19 deaths over Christmas and New Year's. [UAMS: Expect high rate of COVID-19 deaths over Christmas and New Year's \(4029tv.com\)](https://www.4029tv.com/story/news/2020/12/24/uams-expect-high-rate-of-covid-19-deaths-over-christmas-and-new-year-s/3401447001/)

TB&P, December 2020, Title: As hospitalizations set new record, Baptist adds hospital beds; UAMS report says state entering 'difficult time'. [As hospitalizations set new record, Baptist adds hospital beds; UAMS report says state entering 'difficult time' - Talk Business & Politics](https://www.talkbusinessandpolitics.com/news/as-hospitalizations-set-new-record-baptist-adds-hospital-beds-uams-report-says-state-entering-difficult-time/)

FOX 16, December 2020, Title: UAMS: Next 2 weeks of Ark. COVID-19 cases will see more deaths than first 4 months of pandemic. [UAMS: Next 2 weeks of Ark. COVID-19 cases will see more deaths than first 4 months of pandemic | KLRT - FOX16.com](#)

KNWA FOX 24, December 2020, Title: New UAMS COVID-19 modeling shows increase in cases to come. [New UAMS COVID-19 modeling shows increase in cases to come | KNWA FOX24 \(nwahomepage.com\)](#)

Arkansas Online, November 2020, Title: State's case tally rises 1,424; guidelines for churches announced. [State's case tally rises 1,424; guidelines for churches announced \(arkansasonline.com\)](#)

KNWA Fox 24, November 2020, Title: UAMS model forecasts significant continued growth over 2 weeks. [UAMS model forecasts significant continued growth over 2 weeks \(nwahomepage.com\)](#)

KARK, November 2020, Title: UAMS model forecasts significant continued growth over 2 weeks. [UAMS model forecasts significant continued growth over 2 weeks | KARK](#)

4029TV, November 2020, Title: UAMS projects Arkansas' pandemic peak to happen in March or April. <https://www.4029tv.com/article/uams-projects-arkansas-pandemic-peak-to-happen-in-march-or-april/34631771>

KARK, October 2020, Title: UAMS predicts 50,000 new COVID-19 cases by December. [UAMS predicts 50,000 new COVID-19 cases by December | KARK](#)

ABC7 KATV, October 2020, Title: 'We are entering a dangerous point': UAMS dean speaks out as COVID cases rise in Arkansas'. ['We are entering a dangerous point': UAMS dean speaks out as COVID cases rise in Arkansas | KATV](#)

KNWA, October 2020, Title: UAMS predicts 50,000 new COVID-19 cases by December. [UAMS predicts 50,000 new COVID-19 cases by December \(nwahomepage.com\)](#)

TB&P, October 2020, Title: Daily COVID-19 deaths up by 25; UAMS modeling shows fewer long-term COVID cases. [Daily COVID-19 deaths up by 25; UAMS modeling shows fewer long-term COVID cases - Talk Business & Politics](#)

Arkansas Times, October 2020, Title: Modeling coronavirus: Oct. 19 projections released. [Modeling coronavirus: Oct. 19 projections released - Arkansas Times \(arktimes.com\)](#)

ABC7 KATV, September 2020, Title: How COVID-19 spread compares to the last UAMS predictions. [How COVID-19 spread compares to the last UAMS predictions | KATV](#)

The Sentinel-Record, September 2020, Title: COVID-19 update: UAMS model predicts death to doubl. [COVID-19 update: UAMS model predicts death to double \(hotsr.com\)](#)

THV11, September 2020, Title: UAMS study predicts over 2,000 COVID-19 deaths in Arkansas by end of October. [UAMS predicts over 2,000 COVID-19 Arkansas deaths end of October | thv11.com](https://thv11.com)

TB&P, September 2020, Title: Gov. Hutchinson: UAMS COVID-19 modeling shows success and need to do more. [Gov. Hutchinson: UAMS COVID-19 modeling shows success and need to do more - Talk Business & Politics](#)

The Saline Courier, September 2020, Title: Hutchinson discusses UAMS model, White House report. [Hutchinson discusses UAMS model, White House report | News | bentoncourier.com](#)

KUAR Public Radio, September 2020, Title: State Adds Just Over 600 New COVID-19 Cases, Cumulative Cases Near 71,000. [State Adds Just Over 600 New COVID-19 Cases, Cumulative Cases Near 71,000 | KUAR \(ualrpublicradio.org\)](#)

Guard Online, September 2020, Title: Stay the course. https://www.guardonline.com/news/stay-the-course/article_501eb217-9966-5f8f-9869-13d3ad4b3fb2.html

5 News Online, September 2020, Title: UAMS modeling has deaths at almost 1,700 by Oct. 15; state reports antigen testing results. [UAMS modeling has deaths at almost 1,700 by Oct. 15; state reports antigen testing results | 5news online.com](#)

Arkansas Times, September 2020, Title: UAMS coronavirus modeling for Sept. 7: We're already there. [UAMS coronavirus modeling for Sept. 7: We're already there - Arkansas Times \(arktimes.com\)](#)

Arkansas Democrat Gazette, August 2020, Title: Infections likely to increase at school, governor concedes. [Infections likely to increase at school, governor concedes \(arkansasonline.com\)](#)

THV11, August 2020, Title: UAMS projects new COVID-19 cases would decrease if schools open with online classes. [UAMS projects new COVID-19 cases would decrease if schools open with online classes | thv11.com](#)

Times Record, August 2020, Title: When will the pandemic end? Soon, says one expert. [When will the pandemic end? Soon, says one expert \(swtimes.com\)](#)

KARK, July 2020, Title: Newest COVID-19 models from the UAMS College of Public Health. [Newest COVID-19 models from the UAMS College of Public Health | KARK](#)

Arkansas Times, July 2020, Title: New UAMS forecast for coronavirus cases: 5,000+ new cases by July 28. [New UAMS forecast for coronavirus cases: 5,000+ new cases by July 28 - Arkansas Times \(arktimes.com\)](#)

KNWA, July 2020, Title: New COVID-19 models show Arkansas will see 100,000 cases in November. <https://www.nwahomepage.com/knwa/newest-covid-19-models-from-the-uams-college-of-public-health/>

Reuters Health News, November 2019, Title: Cannabis tied to severe heart attack risk in younger adults, <https://www.reuters.com/article/us-health-heart-marijuana/cannabis-tied-to-severe-heart-attack-risk-in-younger-adults-idUSKBN1XZ2J5>

Global News (Canada), November 2019, Title: Cannabis could be linked to higher risk of heart attack in young adults, study finds, <https://globalnews.ca/news/6218899/cannabis-heart-attack-risk/>

ABS-CBN News, November 2019, Title: Cannabis, amphetamines tied to severe heart attack risk in younger adults, <https://news.abs-cbn.com/life/11/26/19/cannabis-amphetamines-tied-to-severe-heart-attack-risk-in-younger-adults>
