

JAY PATEL

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SUMMARY

MPH (Biostatistics) candidate with a Bachelor of Dental Surgery and with **3 years** of hands-on applied experience in **clinical research coordination, public health surveillance, epidemiological data analysis, program evaluation, and reporting** across multi-site initiatives. I am skilled in **collecting/abstracting health data**, building analysis-ready datasets, and translating findings into **charts, graphs, dashboards, and written reports** for internal and external stakeholders. Proficient in **R, SAS, SPSS, Excel, Power BI, and GIS mapping (ArcGIS Pro)** with a strong record of cross-team coordination, confidentiality/HIPAA-aligned workflows, and clear communication to support prevention, intervention, and community health improvement.

SKILLS

Statistical & Research Methods: t-test, ANOVA, GLM, Poisson, Negative Binomial, Rater agreement analysis (ICC, kappa), Regression analysis, Data visualization, Public health surveillance, Geospatial analysis

Data analysis and Management Tools: R, SAS, SPSS, MS Excel, ArcGIS Pro, Power BI, Tableau, QGIS

Data Collection & Management: Data abstraction from records, REDCap database design and management, Electronic case report forms (eCRF), Data quality assurance, QA/QC procedures, Data cleaning and validation, Query resolution, Data dictionaries/codebooks

Clinical Research Operations: Clinical research coordination, Participant recruitment & retention support, Participant engagement, Informed consent support, Study scheduling & visit coordination, Multi-site coordination, Study progress reporting, Study documentation management, Source documents

Regulatory Knowledge: IRB protocol compliance, IRB guidelines, Regulatory documentation, GCP-supported study operations, HIPAA/confidentiality, Protocol compliance management, FDA regulations (working knowledge) Trial support

EXPERIENCE

Texas Center for Patient Safety (Asthma 411 Program)

Fort Worth, TX

Biostatistics Intern

March 2025-Present

- **Conducted epidemiologic analysis and reporting** by cleaning, compiling, and analyzing large program datasets to quantify outcomes; translated results into **tables, charts in R and dashboard-ready summaries in Power BI** to support prevention and intervention planning.
- **Improved surveillance usability** by converting complex standing delegation order guidance into a visual clinical decision algorithm used across **12 school districts**, supporting consistent identification of respiratory distress severity and response actions.
- **Produced written materials for internal/external stakeholders** by developing an annual evaluation report and shareable summaries for all consortium partners that communicated program impact in clear, decision-focused language.
- **Delivered an annual evaluation report** summarizing outcomes and operational impact (5,004 instructional hours reclaimed, \$60,080 cost savings), supporting program accountability and continuous improvement.
- **Coordinated multi-site data collection and partner communication** by tracking progress across districts, maintaining documentation, and providing routine updates to multidisciplinary teams to keep deliverables on schedule.
- **Supported partner education** by developing and distributing training materials and presenting guidance to nurses and school staff, improving consistency of program implementation and documentation.

UNTHSC College of Nursing

Fort Worth, TX

Graduate Research Assistant

February 2025 - Present

- Supported VR simulation research by building **REDCap data capture workflows (eCRFs/CRFs)** and completed **data entry, data validation, and query-style cleanups** using R programming to improve **data integrity, review accuracy, and record keeping** that directly contributed to a peer-reviewed publication in [Clinical Simulation in Nursing](#).
- **Strengthened study operations and data quality** by building and maintaining study datasets, running QA/QC checks, and standardizing documentation to ensure consistent data capture in **R** to support reporting and manuscript-ready outputs.

- **Currently supporting maternal health simulation research** by managing pre-/post-assessment datasets for a nursing simulation focused on **shoulder dystocia** management and outcomes relevant to **maternal safety**, assisting with analysis planning and study reporting.
- **Performed advanced reliability and agreement analyses** (ICC, kappa-based methods) in **SPSS** and summarized findings into clear recommendations to improve scoring consistency and study interpretation.

UNTHSC College of Public Health

Peer Tutor

Fort Worth, TX

November 2024 - Present

- **Synthesized learning resources and built applied practice sets** covering disease surveillance, infectious epidemiology, regression (linear/logistic), ANOVA, generalized linear models, and nonparametric methods, improving outcomes for 20+ students/month using **R** and **SAS examples**.

Karnavati School of Dentistry

Clinical Research Assistant / Dental Intern

India

May 2022 - May 2024

- Coordinated a **double-blind, split-mouth randomized clinical trial** (oral surgery) by screening ASA I/II adults, supporting informed consent, and documenting outcomes through 72-hour follow-up using **protocol-driven source documentation/CRFs and published** it in [Journal of Chemical Health Risks](#).
- Coordinated a **prospective outcomes study in patients on anticoagulant/antiplatelet therapy** by collecting **INR and bleeding/hemostasis measures**, standardizing case report documentation, and ensuring complete, analysis-ready datasets and **published** it in [Journal of Chemical Health Risks](#).
- Assisted with **specimen handling and documentation** (sample collection support, labeling, preservation/packing for lab processing) while maintaining organized records and compliance with clinical workflows.
- Maintained **GCP-supported trial operations** by organizing study files, tracking protocol adherence, and completing high-accuracy documentation for IRB-ready records and research audits/monitoring readiness.

EDUCATION

Master of Public Health, Biostatistics Concentration

Fort Worth, TX, USA

University of North Texas Health Science Center • **3.9/4.0**

May 2024 - Expected May 2026

Bachelor of Dental Surgery

Karnavati School of Dentistry • **3.69/4.0**

Gandhinagar, India

Sep 2019 - May 2024

PUBLICATIONS

Wells-Beede E, Thai L, Seo JH, Godbole MS, **Jay H Patel**, Weston C, Kroll N. Using AI to Create Simulation Scenarios for a Screening Brief Intervention and Referral to Treatment Virtual Reality Simulation. Clinical Simulation in Nursing. 2025; 110:101883.

<https://doi.org/10.1016/j.ecns.2025.101883>

Vaghela D, **Patel Jay**, Patel A, Shah S, Patel H. Efficacy of Buprenorphine for Post extraction Pain in Lower Third Molar Surgery: A Comparative Study. Journal of Chemical Health Risks. 2024;14(1):594-601.

<https://www.jchr.org/index.php/JCHR/article/view/2345>

Mistry E, Patel R, **Patel Jay**, Patel A, Shah R, Rana PT. Effectiveness of Tranexamic Acid Mouthrinse on Extraction Socket in Patients Undergoing Anticoagulant and Antiplatelet Therapy. Journal of Chemical Health Risks. 2023;13(6):3141-3149.

<https://jchr.org/index.php/JCHR/article/view/2607>

INVOLVEMENT

International Student Association (ISA)

University of North Texas Health Science Center

Fort Worth, TX

May 2025 - Present

Treasurer

- **Managed end-to-end vendor payments and contract/documentation management** for ISA events (**200+ attendees**), **coordinating** invoices, approvals, and budget tracking while maintaining **audit-ready records**.