

HTUN TEZA

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RESEARCH INTERESTS

Electronic medical records; Real world data; Data Observability; Biases inherent or introduced through data integration; Imputation for missing data in real world data; Secondary data analysis; Epidemiology; Risk prediction models

EDUCATION

Mahidol University, Thailand — QS WUR #358; by subject #106 (life sciences and medicine)

Master of Science (2019-2021); *Data Science for Healthcare*

Risk-factor based Diagnosis for Chronic Periodontitis using Machine Learning Models

University of Dental Medicine Yangon, Myanmar

Dental Surgery (6-year program: 2012-2019)

General practitioner licensed in Myanmar

WORK EXPERIENCE

Mahidol University, Department of Clinical Epidemiology and Biostatistics

Graduate Research Assistant (2021-Present)

- Affiliated under the Data Science and Clinical Informatics division
- Research database development and quarterly updates [[webpage](#)] [[github](#)]
- Data extraction and engineering of electronic medical records to research datasets
- Data pre-processing in real-world datasets including standardization, harmonization and imputation
- Secondary data analysis for epidemiological and methodological research
- Risk prediction using statistical and machine learning models
- Multidisciplinary collaborations with clinicians, surgeons, pharmacists, epidemiologists, biostatisticians, economists and data-scientists
- Experienced in Python, R, Stata and SPSS

AWARDS

2019 Scholarship for postgraduate students; Faculty of Medicine Ramathibodi Hospital

2019 Mahidol postgraduate scholarships for graduate international students; Faculty of Graduate Studies

ADDITIONAL RELEVANT EXPERIENCES

Thailand Health AI Conference & Datathon 2023

- Khon Kaen University in conjunction with Massachusetts Institute of Technology (MIT) and Harvard Medical School
- Mentor for 2nd Runner up team alongside Dr. Michael G. Morley (Harvard Medical School)
- Data engineer for the largest participating dataset comprising cohort of 100,000 subjects

Undergraduate Research Assistant

- Department of Preventive and Community Dentistry
- Assessment of Oral Health Status in Taung-Tha Township, Myingyan District, Mandalay Division, Myanmar: A Cross-sectional Descriptive Study
- Research to inform public health initiatives regarding dental health

PUBLICATIONS

2026

Teza H, Anothaisintawee T, Limpijankit T, Tansawet A, et al. (2026) Incidence and Prognosis of Apparent Treatment-Resistant Hypertension: A Multi-State Analysis Using Real-World Evidence. *Clinical Hypertension*. Doi: [10.5646/ch.2026.32.e5](https://doi.org/10.5646/ch.2026.32.e5). **Impact Factor 3.6; 24/98 Peripheral Vascular Disease.**

2025

Limpijankit V, Sasiprapha T, Teza H, Pattanateepapon A, et al. (2025) Factors associated with risk of new-onset atrial fibrillation in Thai adults with hypertension. *American Journal of Hypertension*. Doi: [10.1093/ajh/hpaf149](https://doi.org/10.1093/ajh/hpaf149). **Impact Factor 3.1; 31/98 Peripheral Vascular Disease.**

Wabina RS, Looareesuwan P, Sonsilphong S, Teza H, et al. (2025) Uncertainty-aware approach for multiple imputation using conventional and machine learning models: a real-world data study. *Journal of Big Data*, 12, 95. Doi: [10.1186/s40537-025-01136-3](https://doi.org/10.1186/s40537-025-01136-3). **Impact Factor 6.4; 14/147 Computer Science, Theory & Methods.**

2024

Tansawet A, Looareesuwan P, Teza H, Boongird S, et al. (2024) Effects of sodium-glucose cotransporter-2 inhibitors on chronic kidney disease progression: A multi-state parametric survival model. *Diabetology & Metabolic Syndrome*, 16(1):281. doi: [10.1186/s13098-024-01522-6](https://doi.org/10.1186/s13098-024-01522-6). **Impact Factor 3.9; 56/191 Endocrinology & Metabolism.**

Tansawet A, Numthavaj P, Teza H, Pattanateepapon A, et al. (2024) External validation and revision of Penn incisional hernia prediction model: A large-scale retrospective cohort of abdominal operations. *Surgeon - Journal of The Royal Colleges Of Surgeons Of Edinburgh And Ireland*, 22(1), e34-e40. doi: [10.1016/j.surge.2023.07.008](https://doi.org/10.1016/j.surge.2023.07.008). **Impact Factor 2.5; 51/132 Surgery.**

2023

Teza H, Pattanateepapon A, Lertpimonchai A, Vathesatogkit P, et al. (2023) Development of Risk Prediction Models for Severe Periodontitis in a Thai Population: Statistical and Machine Learning Approaches. *JMIR Formative Research*, 7, e48351. doi: [10.2196/48351](https://doi.org/10.2196/48351). **Impact Factor 2.1; 99/185 Health Care Sciences & Services; 35/48 Medical Informatics.**

Teza H, Boonmanunt S, Unwanatham N, Thadanipon K, et al. (2023) Evaluation of transitions from early hypertension to hypertensive chronic kidney disease, coronary artery disease, stroke and mortality: a Thai real-world data cohort. *Frontiers in Cardiovascular Medicine*, 10, 1170010. doi: [10.3389/fcvm.2023.1170010](https://doi.org/10.3389/fcvm.2023.1170010). **Impact Factor 2.9; 81/230 Cardiac & Cardiovascular Systems.**

Preprints and Under Review

Thway AM, Teza H, Win TT, Htun YM, et al. Epidemiological characteristics of SARS-COV-2 in Myanmar. medRxiv, 2020-08. doi: [10.1101/2020.08.02.20166504](https://doi.org/10.1101/2020.08.02.20166504) (Preprint)

CONFERENCES

CEB Data Warehouse Showcase

Speaker; 20th September 2023

Ramathibodi International Academic Conference, Mahidol University, Bangkok, Thailand

Hypertension and Its Associated Complications: A Thai Real-World Clinical Cohort

Poster; 7th to 10th May 2023

ISPOR—the Professional Society for Health Economics and Outcomes Research, Boston Convention & Exhibition Center, Boston, Massachusetts, United States

Screening models for Periodontitis

Poster; 21st to 25th August, 2022

43rd Annual Conference of International Society for Clinical Biostatistics, Newcastle University, Newcastle upon Tyne, United Kingdom

Big Cohort Data for Non-communicable Diseases

Speaker; 20th July 2022

14th Ministry of Health - Academy of Medicine of Malaysia Scientific Meeting, National Institutes of Health, Selangor, Malaysia

Clinical Prediction of Chronic Periodontitis

Proceeding; 16th January 2021

The 7th Regional Conference on Graduate Research 2021, Sripatum University, Khon Kaen, Thailand