

# 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

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## EDUCATION

2019 - 2021

*Mahidol University, Thailand*

QS WUR #358; by subject #106 (life sciences and medicine)

### **Data Science for Healthcare**

*Master of Science*

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

2012 - 2019

*University of Dental Medicine*

*Yangon, Myanmar*

### **Dental Surgery**

*6-year program*

General practitioner licensed in Myanmar

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## WORK EXPERIENCE

2021 - Present

*Mahidol University, Department of  
Clinical Epidemiology and  
Biostatistics*

### **Graduate Research Assistant**

- Affiliated under the Data Science and Clinical Informatics division
  - Research database development and quarterly updates  
CEB Data Warehouse · Hypertension Cohort · Dementia Cohort
  - 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
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## AWARDS

2019

### **Scholarship for postgraduate students**

*Faculty of Medicine Ramathibodi Hospital, Mahidol University*

2019

### **Mahidol postgraduate scholarships for graduate international students**

*Faculty of Graduate Studies, Mahidol University*

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## ADDITIONAL RELEVANT EXPERIENCES

Khon Kaen University in conjunction with Massachusetts Institute of Technology (MIT) and Harvard Medical School

### Thailand Health AI Conference & Datathon 2023

- 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

Department of Preventive and Community Dentistry, University of Dental Medicine Yangon

### Undergraduate Research Assistant

- 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

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## PUBLICATIONS

- 2026 **Teza H**, Anothaisintawee T, Limpijankit T, Tansawet A, Boonmanunt S, Pattanateepapon A, McKay G, Attia J, Thakkinstian A 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
- 2025 Limpijankit V, Sasiprapha T, **Teza H**, Pattanateepapon A, Siriyotha S, Boonmanunt S, Attia J, Thakkinstian A Factors Associated with New-Onset Atrial Fibrillation in Thai Adults with Hypertension. *American Journal of Hypertension*. doi: 10.1093/ajh/hpaf149
- 2025 Wabina R, Looaresuwan P, Sonsilphong S, **Teza H**, Ponthongmak W, McKay G, Attia J, Pattanateepapon A, Panitchoke A, Thakkinstian A Uncertainty Aware Approach for Multiple Imputation Using Conventional and Machine Learning Models: A Real-World Data Study. *Journal of Big Data*. doi: 10.1186/s40537-025-01136-3
- 2024 Tansawet A, Looaresuwan P, **Teza H**, Boongrid S, McKay G, Attia J, Pattanaprateep O, Thakkinstian A Effects of sodium-glucose cotransporter-2 inhibitors on chronic kidney disease progression: A multi-state parametric survival model. *Diabetology & Metabolic Syndrome*. doi: 10.1186/s13098-024-01522-6
- 2024 Tansawet A, Numthavaj P, **Teza H**, Pattanateepapon A, Piebpien P, Poprom N, Techaponsatorn S, McKay G, Attia J, Sumritpradit P, Thakkinstian A External validation and revision of Penn incisional hernia prediction model: A large-scale retrospective cohort of abdominal operations. *Surgeon*. doi: 10.1016/j.surge.2023.07.008
- 2023 **Teza H**, Pattanateepapon A, Lertpimonchai A, Vathesatogkit P, McKay G, Attia J, Thakkinstian A Development of Risk Prediction Models for Severe Periodontitis in a Thai Population: Statistical and Machine-Learning Approaches. *JMIR Formative Research*. doi: 10.2196/48351

2023  
**Teza H, Boonmanunt S, Unwanatham N, Thadanipon K, Limpijankit T, Pattanaprateep O, Pattanateepapon A, McKay G, Attia J, Thakkinstian A**  
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*. doi: 10.3389/fcvm.2023.1170010

*Preprints and Under Review*

2020  
Thway A, **Teza H**, Win T, Htun Y, Aung M, Win Y, Tun K Epidemiological Characteristics of SARS-CoV-2 in Myanmar. *medRxiv*. doi: 10.1101/2020.08.02.20166504

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## CONFERENCES

2026  
SPEAKER  
**Associations between PM2.5 Exposure and Head & Neck Cancer and Dementia (in association with The Dementia Association of Thailand)**  
*42nd Royal College of Physicians of Thailand Annual Meeting 2026 – Pattaya, Thailand*

2023  
SPEAKER  
**CEB Data Warehouse Showcase**  
*Ramathibodi International Academic Conference (RIAC 2023) – Bangkok, Thailand*

2023  
POSTER  
**Hypertension and Its Associated Complications: A Thai Real-World Clinical Cohort**  
*ISPOR–The Professional Society for Health Economics and Outcomes Research 2023 – Boston, US*

2022  
POSTER  
**Screening Models for Periodontitis**  
*International Society for Clinical Biostatistics Annual Conference – Newcastle, UK*

2022  
SPEAKER  
**Big Cohort Data for NCDs (NCDs: Bridging the Gaps)**  
*Ministry of Health – Academy of Medicine of Malaysia Scientific Meeting – Selangor, Malaysia*

2021  
POSTER  
**Clinical Prediction of Chronic Periodontitis**  
*The 7th Regional Conference on Graduate Research 2021 – Khon Kaen, Thailand*