

ANUSORN THANATAVEERAT, BPharm, MPH

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EDUCATION

Columbia University, Mailman School of Public Health, New York, NY

DrPH Candidate in Biostatistics Sep-2013 – Present

- Expected graduation: December 2019
- Dissertation title: Model-Based Clustering Algorithms for Zero-Inflated Data
- Advisor: Bin Cheng, Ken Cheung

MPH in Health Policy & Management Sep-2010 - Dec-2011

- Concentration: Effectiveness & Outcomes Research

Chulalongkorn University, Bangkok, Thailand

BS in Pharmacy May-2003 - Feb-2008

- First Class Honors Received

GRANTS AND AWARDS

Columbia University, Mailman School of Public Health, New York, NY

Graduate Research Assistantship Sep-2013 – Mar-2016

Student Travel Fund Award Oct-2013

PROFESSIONAL EXPERIENCE

Columbia University Medical Center, New York, NY

Senior Data analyst, Center for Behavioral Cardiovascular Health, Department of Medicine Apr-2019 – Present

Data analyst, Center for Behavioral Cardiovascular Health, Department of Medicine Apr-2016 – Mar-2019

- Clean, merge and harmonize large datasets from different sources (in-house File Maker database, data dump from collaborating sites, EHR and hospital billing data)
- Produce randomization list for interventional studies and ensure involved personnel remain blinded per study protocol
- Perform the statistical analyses including linear regression analysis, longitudinal analysis, logistic regression analysis, multiple imputation and statistical modeling (GLM, Logistic model, GEE and Mixed Model) of clinical trials and observational studies using SAS and R.
- Generate tables and figures for analysis results, and communicate statistical results of the research datasets to investigators and data team member
- Write method and result sections for publications and respond to the reviewers' comments on statistics

Data analyst, Columbia Outcomes Research and Decision Analysis Program, Department of Medicine Feb-2012 – Sep-2013

Intern, Columbia Outcomes Research and Decision Analysis Program, Department of Medicine Jun-2011 – Jan-2012

- Constructed computer simulation model to evaluate the cost-effectiveness of primary cardiovascular disease prevention using TreeAge
- Optimized the Microsimulation model by introducing new approaches which decrease the model's runtime speed of convergence and using cross-platform communication
- Ran simulations using the Coronary Heart Disease (CHD) Policy Model software in Fortran
- Investigated and analyzed U.S. national data (NHANES, NHDS, WONDER, BFRSS)
- Conducted research, including literature reviews, to support assumptions for health economic models

Medical Science Liaison, Medical Affairs

- Oversaw studies in the fields of Hematology and Infectious Disease
- Supported marketing and sales team to achieve their targets
- Supervised data management team on the investigator-initiated study which collected data on prevalence, risk factors and severity of multiple myeloma
- Collaborated with regulatory affairs unit in order to import unlicensed medicine for pediatric patients
- Maintained quality standards and timelines to meet business needs and contributed to the development and improvement of departmental procedures and processes
- Trained summer interns on clinical trial management topics

Prapokklao Hospital, Chantaburi, Thailand

Mar-2007 – Jun-2007

Intern Pharmacist

- Dispensed drugs according to prescriptions to in- and out-patients
- Assessed drug-related problems and developed care plans for patients
- Conducted drug use evaluation, monitored and followed up adverse drug reaction cases

PUBLICATIONS**PEER-REVIEWED ARTICLES**

1. Moise, N., Davidson, K. W., Cheung, K., Clarke, G. N., Dolor, R. J., Duer-Hefele, J., **Thanataveerat, A.**, ... & Retuerto, J. (2019). Rationale, design, and baseline data for a multicenter randomized clinical trial comparing depression screening strategies after acute coronary syndrome: The comparison of depression identification after acute Coronary Syndromes-Quality of Life and Cost Outcomes (CODIACS-QOL) trial. *Contemporary clinical trials*, 105826.
2. Axelrad, J. E., Faye, A. S., Pinsino, A., **Thanataveerat, A.**, Colombo, P., Yuzefpolskaya, M., & Gonda, T. A. (2019). 51 PROSPECTIVE EVALUATION OF AN ENDOSCOPIC MANAGEMENT ALGORITHM FOR GASTROINTESTINAL BLEEDING IN PATIENTS WITH LEFT VENTRICULAR ASSIST DEVICES. *Gastrointestinal Endoscopy*, 89(6), AB49.
3. Zhu, D. R., Julian, J., Lee, S. J., **Thanataveerat, A.**, & Sumner, J. A. (2018). Patterns of peritraumatic threat perceptions in patients evaluated for suspected acute coronary syndrome according to prior and current posttraumatic stress symptoms. *General hospital psychiatry*.
4. Diaz, K. M., **Thanataveerat, A.**, Parsons, F. E., Yoon, S., Cheung, Y. K., Alcantara, C., ... & Burg, M. M. (2018). The Influence of Daily Stress on Sedentary Behavior: Group and Person (N of 1) Level Results of a 1-Year Observational Study. *Psychosomatic medicine*.
5. Axelrad, J. E., Pinsino, A., Trinh, P. N., **Thanataveerat, A.**, Brooks, C., Demmer, R. T., ... & Garan, A. R. (2017). Limited usefulness of endoscopic evaluation in patients with continuous flow left ventricular assist devices and gastrointestinal bleeding. *The Journal of Heart and Lung Transplantation*.
6. Moise, N., **Thanataveerat, A.**, Alcantara, C., Ye, S., Davidson, K., Qian, M., ... & Kronish, I. (2017). Willingness for Depression Treatment Following Myocardial Infarction. *Circulation*. 2017;136:A15009.
7. Pletcher, M. J., Vittinghoff, E., **Thanataveerat, A.**, Bibbins-Domingo, K., & Moran, A. E. (2016). Young Adult Exposure to Cardiovascular Risk Factors and Risk of Events Later in Life: The Framingham Offspring Study. *PloS one*, 11(5), e0154288.
8. Gu, D., He, J., Coxson, P. G., Rasmussen, P. W., Huang, C., **Thanataveerat, A.**, . . . Zhao, D. (2015). The Cost-Effectiveness of Low-Cost Essential Antihypertensive Medicines for Hypertension Control in China: A Modelling Study. *PLoS medicine*,

12(8).

9. Yang, J. J., **Thanataveerat, A.**, Green, P. H., & Lebwohl, B. (2015). Cost Effectiveness of Routine Duodenal Biopsy Analysis for Celiac Disease During Endoscopy for Gastroesophageal Reflux. *Clinical Gastroenterology and Hepatology*.
10. Moran AE, Odden MC, **Thanataveerat A**, et al. Cost-Effectiveness of Hypertension Therapy According to 2014 Guidelines. *New England Journal of Medicine* 2015; 372:447-55.

ARTICLES IN PREPARATION

1. **Thanataveerat A.** Cheng B, Cheung, K. Model-Based Clustering Algorithm for Zero-Heavy Log-Normal Data with Application to The Northern Manhattan Study.
2. **Thanataveerat A.** Cheng B, Cheung, K. Model-Based Clustering Algorithm for Zero-Heavy Poisson Data with Application to The REACH Study.

PRESENTATIONS

INVITED TALKS

1. **Thanataveerat A.** (2015, September). Snapshot of Health Technology Assessment (HTA). Presented at Takeda Pharmaceuticals, Bangkok, Thailand.
2. **Thanataveerat A.** (2015, May). Analysis of the Cost-Effectiveness of Hypertension Treatment in the U.S. Presented at Department of Population Health Science and Policy, Mount Sinai Hospital, New York, NY.
3. **Thanataveerat A.** (2014, July). Statistical Analysis in Medical Journals. Presented at Takeda Pharmaceuticals, Bangkok, Thailand.
4. **Thanataveerat A.** (2013, August). TreeAge Pro Training. Presented at School of Pharmaceutical Sciences, Chulalongkorn University, Bangkok, Thailand.
5. **Thanataveerat A.** (2013, October). Calibration of a Markov Cardiovascular Disease Microsimulation Model Using an Established Cell-Based Simulation Model. Presented at The 35th Annual Meeting of the Society for Medical Decision Making, Baltimore, MD.

POSTERS

1. **Thanataveerat, A.**, Kohli-Lynch, C., Pletcher, M. J., Vittinghoff, E., Moran, A. E. (2018, March). Potential Value of Long-term Intensive BP Treatment in 40-year Patients: A Computer Simulation Study. Poster session presented at EPI/Lifestyle 2018 Scientific Sessions, New Orleans, LA.
2. Sumner, J., Zhu, D., Lee, S., **Thanataveerat, A.** (2017, April). Patterns of Peritraumatic Threat Perceptions in Patients Evaluated for Suspected Acute Coronary Syndrome According to Prior and Current Posttraumatic Stress Symptoms. Poster session presented at Anxiety and Depression Conference 2017, San Francisco, CA.
3. Obi, M., Moise, N., Alcantara, C., **Thanataveerat, A.**, Kronish, I. (2017, April). Health priorities following myocardial infarction: Results from a national survey. Poster session presented at Society of General Internal Medicine Annual Meeting, Washington, DC.
4. **Thanataveerat, A.**, Kohli-Lynch, C., Pletcher, M. J., Vittinghoff, E., Moran, A. E. (2017, March). Potential Value of Long-term Intensive BP Treatment in 40-year Patients: A Computer Simulation Study. Poster session presented at EPI/Lifestyle 2017 Scientific Sessions, Portland, OR.
5. Kohli-Lynch, C., **Thanataveerat, A.**, Pletcher, M. J., Vittinghoff, E., Moran, A. E. (2017, March). Long-Term Benefits of Blood Pressure Lowering in Young Adulthood: A Computer Simulation Study. Poster session presented at EPI/Lifestyle 2017 Scientific Sessions, Portland, OR.
6. **Thanataveerat A.**, Chang B. P., Parsons F., Sundquist K., Suh E., Sumner J. A. (2017, March). Greater Emergency Department Crowding is Associated with Elevated Posttraumatic Stress Symptoms in the Acute Aftermath of Evaluation for Suspected Acute Coronary Syndrome. Poster session presented at The Annual Meeting of the American Psychosomatic

Society, Seville, Spain.

SKILLS

Computer: TreeAge, FileMaker, SAS, STATA, SPSS, R, Latex, Git, Microsoft Office

Languages: Thai (native), English (fluent)

PROFESSIONAL ASSOCIATION

THE PHARMACY COUNCIL, Thailand

May-2008 - Present