

NICHCHA SUBDEE

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EDUCATION

Columbia University, Mailman School of Public Health

Master of Public Health (MPH), Epidemiology

Certificate in Advanced Epidemiology

New York, NY

Expected May 2026

Mahidol University, Faculty of Tropical Medicine (GPA 4.00)

Graduate Diploma, Biomedical and Health Informatics (International program)

Bangkok, Thailand

August 2024

Marshall University, College of Science

Bachelor of Science (BS), Biological Science major & Chemistry minor

Huntington, WV

May 2019

WORK & LEADERSHIP EXPERIENCE

Cancer Epidemiology Education in Special Population (CEESP 2025)

Faculty of Medicine, Khon Kaen University

Khon Kaen, Thailand

May 2025 – Aug 2025

- Conducted research on risk factors for cholangiocarcinoma using hospital-based EMR data by applying machine learning methods in Python and R to develop predictive models for early detection

Research Technical Officer

Faculty of Medicine Siriraj Hospital, Mahidol University

Bangkok, Thailand

Dec 2019 – May 2023

- Managed 14 research projects on inflammatory bowel disease (IBD) and gastrointestinal diseases.
 - o Oversaw IRB submission, protocol amendments, and grants management throughout the study.
 - o Coordinated data collection and supervised project activities leading to 8 publications
 - o Facilitated operations in the IBD clinic, overseeing a total of 300 patients and managing approximately 40 patients per week.

Organic Chemistry Laboratory Teaching Assistant (TA)

College of Science, Marshall University

Huntington, WV

Jan 2019 – May 2019

- Guided students in the Organic Chemistry laboratory class, overseeing a total of 50 students.
- Prepared weekly experiment materials and graded assignments.

Intern

National Center for Genetic Engineering & Biotechnology (BIOTEC)

Pathumthani, Thailand

May 2018 – Aug 2018

The Biomolecular Analysis and Application Laboratory (SBMA), Biosensing Technology Research Unit (STU)

- Conducted research on Metabolomics of *Merremia tridentate* (L.) Hallier f. (*Merremia* vine)
- Received training on various laboratory equipment, such as LC/MC, ball mill grinder machine, and freeze dryer

SKILLS & CERTIFICATIONS

Languages: Thai (Native), English (Proficiency), Korean (Advanced beginner), and Chinese (Beginner)
Data analysis: SAS, R, Python, STATA **Spatial analysis:** QGIS
Data collection: Epicollect5, REDCap **Data visualization:** Looker Studio, Flourish
Certifications: Human Subject Research (CITI), Advanced Study Coordinator Training (SiCRES), Computer & management information system (MIS) in epidemiological studies (Grade A)

CONFERENCE AND RESEARCH PUBLICATIONS

Poster presentation: Digestive Disease Week (DDW 2023) – Chicago, IL May. 6 – May. 9, 2023

Title: “Crohn’s disease in Thailand is increasing and more complicated in the biologic era: a 20-year report of two tertiary referral centers”

Research Publications:

- 1. Increased Fiber Intake Enhances Clostridia Bacteria and Reduces Clinical Relapse in Patients With Clinically Quiescent Inflammatory Bowel Disease: A Prospective Longitudinal Study.**
Limsrivilai, J., Sathirawich, P., Sattayalertyanyong, O., Pramyothin, P., Thaipsisuttikul, I., Pausawasdi, N., Charatcharoenwitthaya, P., Sarasak, R., Nitayanon, P., Phaophu, P. and **Subdee, N.** (2025). JGH Open, 9(7), e70219.
- 2. Poor sleep quality is common and independently associated with disease activity and poor quality of life in inflammatory bowel disease: a long-term follow-up study.**
Chaemsupaphan, T., Pimolsri, C., **Subdee, N.**, Phaophu, P., Salaemae, M., Permpim, P., ... & Limsrivilai, J. (2025). *Therapeutic Advances in Gastroenterology*, 18, 17562848241311142.
- 3. Evaluating the efficacy of fecal immunochemical test, fecal calprotectin, and serum C-reactive protein in diagnosing patients with chronic lower gastrointestinal symptoms.**
Limsrivilai, J., Yodmalai, C., Chaemsupaphan, T., Sattayalertyanyong, O., **Subdee, N.**, Permpim, P., Phaophu, P., Kaosombatwattana, U., Pausawasdi, N., Riansuwan, W. and Charatcharoenwitthaya, P., 2024. *Clinical and Translational Gastroenterology*, 10-14309.
- 4. Fecal Calprotectin in Nosocomial Diarrhea: A Prospective Observational Study**
Jaroonsakchai, W., Limsrivilai, J., Phaophu, P., **Subdee, N.**, Ngamskulrungsroj, P., Pausawasdi, N., Charatcharoenwitthaya, P. and Pongprasobchai, S., 2024. *Siriraj Medical Journal*, 76(4), pp.182-188.
- 5. Performance of cytomegalovirus real-time polymerase chain reaction assays of fecal and plasma specimens for diagnosing cytomegalovirus colitis**
Sattayalertyanyong, Onuma MD^{1,2}; Limsrivilai, Julajak MD, MSc^{1,a}; Phaophu, Phutthaphorn¹; **Subdee, Nichcha**¹; Horthongkham, Navin PhD³; Pongpaibul, Ananya MD⁴; Angkathunyakul, Napat MD⁴; Chayakulkeeree, Methee MD, PhD⁵; Pausawasdi, Nonthalee MD¹; Charatcharoenwitthaya, Phunchai MD, MSc¹ *Clinical and Translational Gastroenterology* ():10.14309/ctg.0000000000000574, March 01, 2023. | DOI: 10.14309/ctg.0000000000000574
- 6. Real-World Experience for Biologic use in IBD in Thai: A Single-center experience**
Julajak Limsrivilai, Thanaboon Chaemsupaphan, Onuma Sattayalertyanyong, **Nichcha Subdee**, Parinya Permpim, Nonthalee Pausawasdi, REAL-WORLD EXPERIENCE FOR BIOLOGIC USE IN IBD IN THAI: A SINGLE-CENTER EXPERIENCE, *Inflammatory Bowel Diseases*, Volume 29, Issue Supplement_1, February 2023, Pages S54–S55, <https://doi.org/10.1093/ibd/izac247.105>

7. **Impact of Coronavirus disease-19 (COVID-19) Pandemic on the Colonoscopy training of gastroenterology fellows**
Maipang K, Kaosombatwattana U, Rugivarodom M, Limsrivilai J, Pausawasdi N, Leelakusolvong S, Phaophu P, **Subdee N**, Charatcharoenwitthaya P. *Gastrointest Endosc.* 2022 Jun;95(6):AB132. doi: 10.1016/j.gie.2022.04.359. Epub 2022 Jun 7. PMID: PMC9170301
8. **Diagnostic yield of esophagogastroduodenoscopy, colonoscopy, and small bowel endoscopy in Thai adults with chronic diarrhea**
Limsrivilai, J., Sakjirapapong, C., Sattayalertyanyong, O., Geeratrakool T., Sathirawich P., Pongpaibul A., Apisarnthanarak P., Phaophu P., **Subdee N.**, Charatcharoenwitthaya P., Pausawasdi N. *BMC Gastroenterol* **21**, 417 (2021). <https://doi.org/10.1186/s12876-021-01998-w>
9. **Burden of Inflammatory Bowel Disease on Patient Mood, Fatigue, Work and Health-Related Quality of Life in Thailand: A Case-Control Study**
Kasenee Tiankanon, MD, Julajak Limsrivilai, MD, Napapat Poocharoenwanich, MD, Phutthaphorn Phaophu, M.Sc, **Nichcha Subdee**, B.Sc, Natanong Kongtub, B.Sc, Satimai Aniwan, MD, *Crohn's & Colitis* **360**, 2021; otab077, <https://doi.org/10.1093/crocol/otab077>