RESEARCH WISDOM

FACULTY OF NURSING, CHIANG MAI UNIVERSITY

INSTRUMENT
TRANSLATION AND
EVALUATION

HEALTH BELIEF PERCEPTIONS AND
DEMENTIA-PREVENTIVE BEHAVIORS IN
TYPE 2 DIABETICS

VISITING PROFESSOR:
ON-SITE VISIT

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MESSAGE FROM THE DEAN

As we embark on a brand-new year at NurseCMU, I hope all of our Research Wisdom readership have encountered a prosperous start to 2024. The past year was eventful for all of us, from achieving successful ACEN accreditation to laying the groundwork for our much-anticipated 2024 international conference.

In this inaugural issue of 2024, we are thrilled to present two compelling features that showcase the depth and breadth of our research endeavors. Our featured articles include recent publications on instrument translation and evaluation in a Thai context as well as a feasibility study on a Health Belief Model-based educational training program for dementia prevention behaviors.

Both studies underscore our dedication to addressing pressing healthcare challenges and enhancing patient outcomes through evidence-based interventions. Additionally, I am pleased to highlight the invaluable contributions of our esteemed Visiting Professor Daniel Bressington, who recently visited our campus for a with a week-long visit. During his stay, Prof. Bressington engaged in activities including a presentation, a workshop, and one-on-one research consultations, enriching our academic community with his expertise and insights.

Looking ahead, I am excited to announce the forthcoming NurseCMU international conference, slated to take place later this year. This premier event will serve as a platform for interdisciplinary exchange and collaboration, bringing together leading scholars, practitioners, and policymakers to chart the course for the future of nursing research and practice.

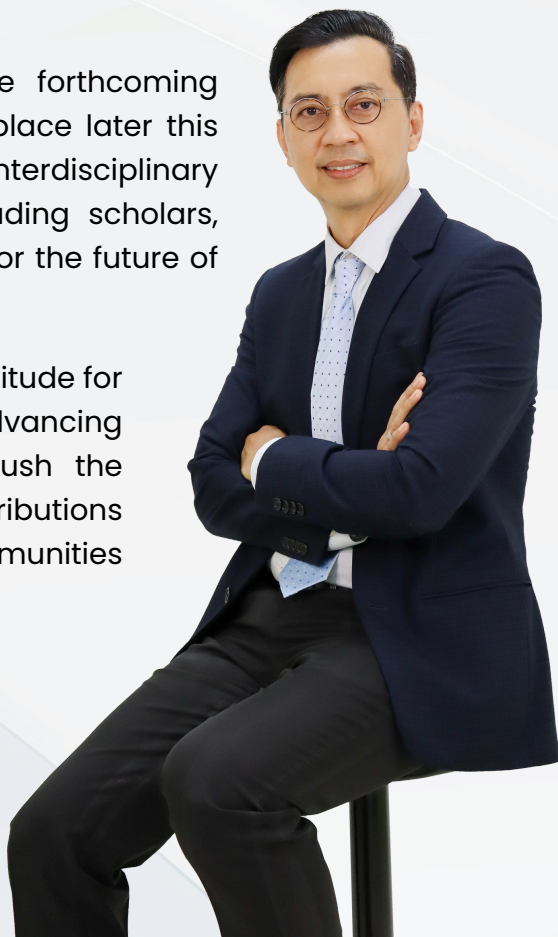As we embark on this new year, I am filled with gratitude for your unwavering support and dedication to advancing nursing science. Together, we will continue to push the boundaries of knowledge and make meaningful contributions to the health and well-being of individuals and communities worldwide.

Warm regards,

Thanee Kaewthummanukul, PhD, RN, APN
Assistant Professor and Dean, Faculty of Nursing
Chiang Mai University

THE REVISED SECOND VICTIM EXPERIENCE AND SUPPORT TOOL

THAI TRANSLATION AND PSYCHOMETRIC EVALUATION

In the demanding field of nursing where patient safety is paramount, the experience of second victims remain less studied yet profoundly impactful. Nurses, in particular, are susceptible to becoming second victims, experiencing physio-psychological distress following unanticipated adverse patient events.

Recognizing the significance of this issue, this recent study undertook the task of translating and validating the Revised Second Victim Experience and Support Tool (SVEST-R) for Thai nurses.

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The study, led by Associate Professor Dr. Petsunee Thungjaroenkul, aimed to fill a crucial gap in Thai healthcare by providing a reliable instrument to measure the experiences of second victims among nurses. By translating and validating the SVEST-R, these findings offer a means of early assessment and support for nurses struggling with the impact of adverse events.

Dr. Petsunee expressed her motivation for exploring this area due to firsthand observation of incidents in Thai hospitals along with a lack of evidence on second victim experiences, underscoring the need for a tailored instrument to assess and address the unique challenges faced by nurses in such situations.

"DUE TO FIRSTHAND OBSERVATION OF INCIDENTS ... UNDERSCORING THE NEED FOR A TAILORED INSTRUMENT TO ASSESS AND ADDRESS THE UNIQUE CHALLENGES"

Ensuring the accuracy and cultural relevance of the translated Thai version of the SVEST-R was paramount. The research team meticulously followed the World Health Organization guidelines for cross-cultural adaptation, employing forward-backward translation and cognitive interviewing to refine the instrument.

The resulting Thai-SVEST-R is a psychometrically sound tool that can highlight the nuances of second victim experiences among Thai nurses. Notably, the study highlighted the significance of peer support for second victims, emphasizing the importance of empathy and emotional support from colleagues in the recovery process. Looking ahead, the Thai-SVEST-R can serve as a valuable screening tool, enabling healthcare managers to promptly identify and support nurses affected by adverse events.

**Assoc. Prof. Dr.
Petsunee Thungjaroenkul**

**Assoc. Prof. Dr.
Pratum Soivong**

**Lecturer
Kedsaraporn Udkunta**

By providing a validated instrument tailored to the Thai context, the research opens doors for proactive support and intervention strategies, ultimately contributing to the broader conversation around patient safety and healthcare provider well-being in Thailand. Hospitals can use the opportunity to assess and support second victims, recognizing that each individual's context may require unique forms of assistance.

Moreover, Dr. Petsunee's study sets a precedent for nursing researchers to explore similar avenues of inquiry and contribute to the ongoing advancement of knowledge in nursing measurement.

Click **here** to read **The Revised Second Victim Experience and Support Tool: Thai translation and psychometric evaluation**

ESTABLISHING THE FEASIBILITY AND PRELIMINARY EFFICACY OF A HEALTH BELIEF MODEL BASED EDUCATIONAL TRAINING PROGRAM ON HEALTH BELIEF PERCEPTIONS AND DEMENTIA-PREVENTIVE BEHAVIORS IN PEOPLE WITH TYPE 2 DIABETES

PUBLISHED IN NURSING & HEALTH SCIENCES

The relationship between diabetes and dementia has emerged as an interesting area for exploration. Therefore, Associate Professor Dr. Noppamas Pipatpiboon initiated this quasi-experimental study aiming to assess the feasibility and initial effectiveness of a dementia-preventive educational training intervention program based on the Health Belief Model (HBM) among individuals with type 2 diabetes mellitus (T2DM).

The HBM provides a comprehensive framework for understanding, predicting, and influencing health behaviors, making it a suitable approach to inform this type of intervention. A diverse research team, including members of the CMU Faculty of Medicine, as well as NurseCMU visiting professor Dr. Daniel Bressington combined to study the intersection of diabetes management and dementia prevention, providing insights into the potential of tailored educational interventions to enhance health beliefs and foster dementia-preventive behaviors in this vulnerable population

Assoc. Prof. Dr. Noppamas Pipatpiboon

Lecturer Pataporn Bawornthip

The study's emphasis on feasibility underscores the importance of laying a strong groundwork for future investigations, offering a strategy for designing interventions which address the dynamics of chronic conditions like T2DM and dementia. Preliminary findings demonstrated the promising potential of dementia-preventive educational interventions within the realm of diabetes care. Notably, the intervention group showed commendable adherence rates, with all participants actively engaging in sessions and completing follow-up measures.

Despite challenges in recruitment, innovative strategies such as offering sessions beyond conventional working hours proved instrumental in enhancing participation rates. Significantly, improvements were observed in participants' perceptions of health beliefs and dementia prevention behaviors post-intervention, underscoring the transformative impact of tailored educational initiatives.

Click **here** to read in *Nursing & Health Sciences*

However, amidst these promising strides, the study revealed some other realities. Despite subjective improvements, objective measures including cognitive performance and HbA1C levels remained largely unaffected by the intervention.

While these findings certainly encourage further research, they also underscore the multifaceted nature of addressing complex health concerns like T2DM and dementia.

Future investigations might explore the role of family involvement in diabetes and dementia care while the activities already outlined in this study potentially provide a blueprint for researchers and practitioners alike, offering a framework for future interventions.

This preliminary study marks a significant stride towards understanding the feasibility and potential efficacy of dementia-preventive educational interventions in individuals with T2DM, representing an innovative approach to holistic healthcare delivery.

PROFESSOR DANIEL BRESSINGTON: ON-SITE VISIT

Chiang Mai University's Faculty of Nursing has emerged as a beacon of excellence in education, community health, and clinical practice. In addition, research plays no small part in the pursuit of high standards, and has been key in propelling the faculty onto the global stage.

An integral aspect of the development and success of NurseCMU's international research profile is our commitment to international partnerships. The Visiting Professor program at the Faculty of Nursing continuously attracts internationally renowned experts whose contributions are realized in terms of research output, academic prowess, and mentoring and leading.

Acknowledging and valuing all that our visiting professors contribute, NurseCMU was delighted to welcome Professor Dr. Daniel Bressington to the campus in February of this year. Dr. Bressington's visit was significant as well, in that the COVID-19 pandemic had, to large extent, put a halt to visits from our international partners. Dan's extensive experience includes being a prolific researcher himself, along with maintaining active editorship of leading journals as well as contributing as a reviewer.

This was also Dan's first visit to Chiang Mai since NurseCMU hosted the East Asian Forum of Nursing Scholars in 2020. During his week-long visit, Dan met with the executive team to discuss past and future collaborations, gave a lecture on research program evolution, ran a workshop on peer reviewing, and even spoke to a group of our international students about nursing career success in an international context.

With a more than a few hours scheduled for individual research consultations with faculty and graduate students, he also spent a significant amount of time meeting with some of our NurseCMU researchers and contributing his expertise and experience to their projects.

Moving forward, we are enthusiastic about leveraging Dan's invaluable insights and expertise shared to enhance our research program at the Faculty of Nursing. We anticipate that both graduate students and faculty members will greatly benefit from the knowledge exchange, research consultations, and workshops attended during the visit. By incorporating these learnings into our curriculum and research endeavors, we aim to further elevate the quality of education and research output within our institution.

RESEARCH SNAPSHOTS

Resilience in family caregivers of Asian older adults with dementia: A concept analysis
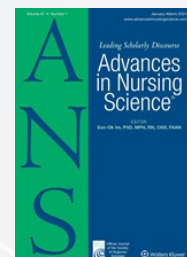
Due to rising dementia rates in Asia, family caregivers of older adults with dementia face increasing challenges in their caregiving. Using Walker and Avant's concept analysis method, this analysis, led by NurseCMU faculty member Thitinan Duangjina, explored the concept of resilience which, while being vital for caregivers coping with prolonged stress, remains inadequately defined in terms of this particular caregiving context. Following the analysis, seven attributes of resilience were identified, emphasizing cultural and sociocultural influences such as filial piety and support systems, in addition to seven antecedents. Importantly, the two consequences of resilience involved mental health and psychological well-being while the need for culturally sensitive interventions to enhance caregiver resilience and well-being was highlighted. Future research is suggested to explore the complex relationship between sociocultural factors and resilience, develop interventions, and create robust measurement tools addressing cultural nuances. This nuanced understanding will empower nurses to provide effective support suited to the unique needs of Asian family caregivers. *Advances in Nursing Science*

https://cmu.to/NvogK

Effect of medagogy–based medication literacy enhancement on medication adherence among older persons with physical multimorbidity: Randomized controlled trial

The Medagogy model, designed to address medication non-adherence among older individuals with physical multimorbidity, emphasizes patient education to enhance medication literacy. NurseCMU doctoral candidate Wichanee Jaimalai led this randomized controlled trial set in northern Thailand which involved 100 participants aged 60 and over with multiple chronic conditions, who were randomly assigned to a control or an experimental group. The experimental group underwent the Medagogy-Based Medication Literacy Enhancement Program, featuring six sessions over three weeks, focusing on P-pathophysiology, I-indication, T-treatment, and S-specific aspects through transformative learning and the teach-back method. Medication adherence was assessed using the Brief Medication Questionnaire at the program's end. Results demonstrated significantly higher adherence in the experimental group compared to the control group. The findings underscore the efficacy of enhancing medication literacy through transformative learning in improving adherence among older adults with physical multimorbidity, suggesting the program's potential for implementation by nurses. Recommendations include further testing in different chronic condition contexts and the integration of digital technology for broader applicability. *Pacific Rim International Journal of Nursing Research*

https://cmu.to/k4nS9

Lecturer
Thitinan Duangjina

Asst. Prof. Dr.
Sirirat Panuthai

Asst. Prof. Dr. Rojanee
Chintanawat

Asst. Prof. Dr.
Phanida Juntasopeepun

RESEARCH SNAPSHOTS

Impact of the COVID-19 pandemic on the Thai population: Delineating the effects of the pandemic and policy measures

NurseCMU faculty members contributing to this study included Professor Dr. Nongyao Kasetpibal, Associate Professor Dr. Nongkran Visekul, and Assistant Professor Dr. Kwaunpanomporn Thummathai. The paper investigated how the COVID-19 pandemic and government policies affected Thai citizens, and the results revealed significant impacts, with over half of the participants experiencing heightened concerns, particularly in economic stability, daily activities, and mental health. Notably, economic hardships, including income loss and job insecurity, were prevalent, alongside challenges in accessing healthcare and education, while varying impacts were indicated on other different aspects of life. These findings underscore the importance of tailored responses to address the diverse needs of the population, balancing public health measures with socioeconomic considerations. However, the study's reliance on self-reported data may introduce bias, although efforts were made to ensure questionnaire validity. Overall, the research provides valuable insights for policymakers to devise targeted interventions that mitigate the broad-ranging impacts of the pandemic, and the associated policy responses, on Thai society. *Antimicrobial Stewardship & Healthcare Epidemiology*

https://cmu.to/IYDrn

Effectiveness of the protection motivation theory-based education program among people at risk of stroke: A randomized controlled trial

Stroke poses a significant threat to global health, leading to both mortality and disability. Effective management of stroke risk factors, particularly blood sugar and blood pressure levels, is crucial for improving clinical outcomes. This study, initiated by PhD candidate Patcharin Khomkham, implemented a Protection Motivation Theory-based Education Program to enhance adherence to stroke prevention among individuals at risk of stroke. Conducted as a randomized controlled trial with 58 adult participants from diabetes and hypertension clinics in southern Thailand, the experimental arm received the education program, while the control arm received usual care. Results demonstrated that the experimental group exhibited increased adherence to stroke prevention, along with reduced blood pressure and HbA1C levels post-program compared to both their own pre-program levels and those of the control group. These findings underscore the program's effectiveness in improving adherence to stroke prevention, suggesting its potential utility in clinical practice pending further testing in larger and varied settings. *Pacific Rim International Journal of Nursing Research*
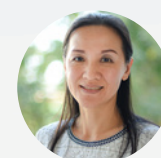
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Prof. Dr. Nongyao Kasatpibal

Asst. Prof. Dr. Nongkran Viseskul

Asst. Prof. Dr. Kwaunpanomporn Thummathai

Assoc. Prof. Dr. Weeraporn Suthakorn

RESEARCH SNAPSHOTS

Effectiveness of the nurse-led self and family management support program among adults with early-stage chronic kidney disease: A randomized controlled trial
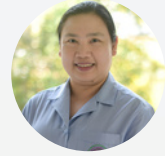
Chronic kidney disease (CKD) poses significant health risks and requires effective self-management to prevent complications and premature death. In another study led by a NurseCMU doctoral candidate, Rostikorn Khwanchum's research introduces the Nurse-led Self and Family Management Support Program (N-SFSP) to enhance disease knowledge and self-management among adults with early-stage CKD. Results demonstrated improved knowledge and self-management in participants receiving the program compared to those in the control group, persisting at 4, 8, and 12 weeks post-program. The N-SFSP included education on CKD for both patients and their family members, emphasizing the role of family support in enhancing self-management. Nurse-led discussions facilitated understanding and addressed uncertainties regarding CKD, empowering individuals to seek further information and engage in self-management behaviors. Moreover, sustained improvements were observed, facilitated by home visits and telephone follow-ups, enabling self-monitoring and reflection. Although conducted in a specific context, the findings suggest the potential of the N-SFSP in enhancing CKD management, warranting further exploration in diverse settings. *Pacific Rim International Journal of Nursing Research*

https://cmu.to/65Fpa

Asst. Prof. Dr. Sumalee Lirtmunlikaporn

Dr. Nonglak Chaloumsuk

Asst. Prof. Dr. Nantaporn Sansiriphun

Assoc. Prof. Dr. Kasara Sripichyakan

Prenatal passive smoking at home: The experiences of women in Thailand

PhD candidate Idchayar Mornsaeng explored the experiences of Thai women regarding prenatal passive smoking at home in this study, identifying three main themes. Firstly, women sought to protect their unborn babies through various measures, but misconceptions regarding the safety of absence of smoke and odor were observed. Secondly, efforts to persuade husbands to quit smoking involved emotional appeals, supportiveness, and interventions from family/friends and healthcare providers. Finally, maternal perseverance played a crucial role, driven by safety goals, rights/responsibilities, changing norms, and the perceived "golden period" of pregnancy. The findings underscore the need for comprehensive healthcare approaches, including tailored interventions, education, and support services for pregnant women dealing with passive smoking at home. Nurses and healthcare providers should address misconceptions, empower women to advocate for smoke-free environments, and support their perseverance in ensuring the health and safety of their unborn babies. *Belitung Nursing Journal*
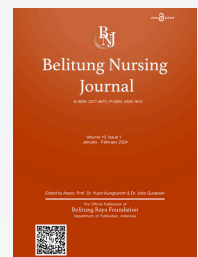
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RESEARCH SNAPSHOTS

Factors influencing nursing faculty members' intent to stay: A structural equation modeling approach

One of NurseCMU's recent PhD graduates, Dr. Lay Lay Myint, has published her second recent paper. In this study, her research team investigated factors influencing nursing faculty members' intent to stay (ITS) in academia through a structural equation modeling (SEM) approach. Using data from 350 faculty members in Myanmar, the study found that job satisfaction, organizational commitment, transformational leadership, job autonomy, perceived organizational support, workload, age, and job stress significantly affected ITS. Transformational leadership indirectly influenced ITS through job satisfaction and organizational commitment. Job autonomy indirectly affected ITS through job satisfaction and organizational commitment as well. Workload had a negative direct and indirect effect on ITS, while age had a positive direct and indirect effect. Perceived organizational support indirectly influenced ITS through job stress and organizational commitment. Job stress directly and negatively impacted ITS. Job satisfaction and organizational

Assoc. Prof. Dr. Thitinut Akkadechanunt

commitment had positive direct effects on ITS. These findings underscore the importance of addressing job stress and enhancing job satisfaction, organizational commitment, and supportive work environments to improve nursing faculty retention. *Nursing & Health Sciences*

https://cmu.to/QSqCF

Implementation of comprehensive sexuality education in primary schools in a province of Northern Thailand

Led by doctoral candidate Napamas Srikwan, this qualitative study, conducted in a northern Thai province, explored the implementation of comprehensive sexuality education (CSE) in primary schools and identified facilitators and barriers related to its implementation. Through in-depth interviews with 15 primary school teachers and nine principals/deputy directors, four key themes emerged: promotion of CSE implementation, informal teaching methods, motivation as a facilitator, and challenges in implementation. The findings suggest that while there is recognition of the importance of CSE at the policy level, its implementation remains informal and non-compulsory. Teachers play a crucial role in delivering CSE, but face challenges due to traditional values and societal norms surrounding sexuality. Strategies to overcome these barriers include teacher training, cultural sensitivity, and collaboration with healthcare providers, particularly nurses. The study underscores the significance of nurses' involvement in promoting CSE and improving sexual health outcomes for adolescents in primary schools. *Pacific Rim International Journal of Nursing Research* **https://cmu.to/uCh9P**

Assoc. Prof. Dr. Pimpaporn Klunklin

Assoc. Prof. Dr. Kasara Sripichyakan

Assoc. Prof. Dr. Decha Tamdee

Asst. Prof. Dr. Sumalee Lirtmunlikaporn

RESEARCH SNAPSHOTS

A causal model of health literacy among Thai older adults with uncontrolled diabetes

Yet another study by one of our NurseCMU PhD candidates, this one aimed to investigate the causal relationship between various factors and health literacy among Thai older adults with uncontrolled diabetes. Using structural equation modeling, the researchers analyzed data from 259 participants. The results showed that diabetes knowledge and cognitive function directly influenced health literacy. Provider-patient communication, empowerment perception, social engagement, and Internet use indirectly impacted health literacy through their effects on diabetes knowledge and cognitive function, personal determinants which the findings confirmed the importance of. Moreover, situational and societal determinants, such as provider-patient communication and social engagement, were identified as important in shaping health literacy. However, social support did not significantly affect health literacy in this context, possibly due to cultural factors. The study suggests the integration of Internet use and social engagement into empowerment communication programs to enhance health literacy among older adults with uncontrolled diabetes. *Pacific Rim International Journal of Nursing Research*

https://cmu.to/duD4p

Asst. Prof. Dr. Sirirat Panuthai

Asst. Prof. Dr. Rojanee Chintanawat

Development and psychometric testing of the Thai-patient safety competency scale for new graduate nurses

Led by doctoral candidate Chulaporn Yaprom, this study aimed to develop and validate the Thai-Patient Safety Competency Scale (Thai-PSCS) for new graduate nurses in Thailand, as a crucial tool for ensuring patient safety. The scale, consisting of 58 items across eight domains, was tested for validity and reliability. These domains included ethical and legal aspects of patient safety, nursing practices to prevent errors, professional characteristics, risk management, academic and research skills, effective communication, technology use, and policy understanding. Results indicated good construct validity and reliability. Factors such as ethical decision-making, nursing practices to prevent errors, and effective communication emerged as critical for patient safety. The scale's development aligns with Thailand's nursing requirements and contributes to global patient safety efforts. Further testing with diverse nurse groups is recommended. The Thai-PSCS could guide nursing education and training to enhance patient safety competencies among new graduate nurses, crucial for achieving Sustainable Development Goals related to health. *Pacific Rim International Journal of Nursing Research*
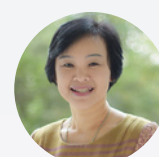
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Assoc. Prof. Dr. Apiradee Nantsupawat

Assoc. Prof. Dr. Kulwadee Abhicharttibutra

Assoc. Prof. Dr. Petsunee Thungjaroenkul

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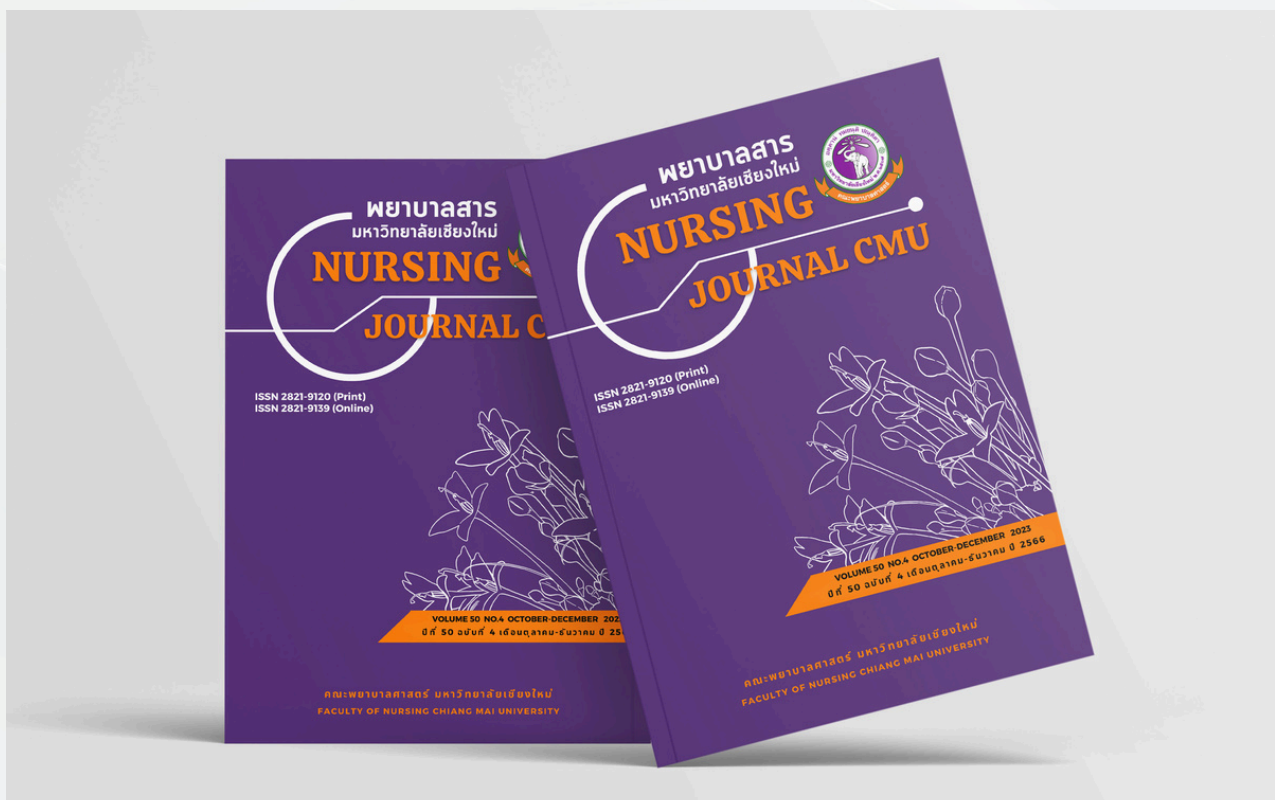
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Global Health Recalibration

Strengthening Outcomes, Education, Clinical Practice, and Research

International Conference 2024

4-6 September 2024

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NurseCMU

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13 CNEU credits offered to Thai nursing participants.

IMPORTANT DATES

Abstract Submission Deadline (extended)	Early Bird Registration Deadline	Regular Registration Deadline
31 May 2024	30 June 2024	31 August 2024

Wednesday, 4 September 2024

Keynote Speeches

"Health Systems Challenges and Opportunities"
Jos Vandelaer, MD, MPH, World Health Organization

"Health Education Challenges and Opportunities"
Thanee Kaewthummanukul, PhD, RN, APN, Chiang Mai University

"Advancing Health Equity and Social Justice"
Michael V. Relf, PhD, RN, AACRN, CNE, ANEF, FAAN, Duke University

Symposium "Strengthening Health Outcomes through Interdisciplinary Collaboration: What are the Challenges and Opportunities?"

Pei-Shan Tsai, PhD, RN, BCIA, Taipei Medical University

Nancy R. Reynolds, PhD, MS, BSN, RN, FAAN, C-NP, Johns Hopkins University

Jody R. Lori, PhD, CNM, FACNM, FAAN, University of Michigan

Miwa Yamamoto, PhD, RN, Kagawa University

Sue Turale, DEd, MNursSt, FACN, FACMHN, Chiang Mai University

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Thursday, 5 September 2024

Keynote Speeches

"The Paradigm Shift in Educating Nursing Professionals"
Chia-Chin Lin, PhD, FAAN, RN, The University of Hong Kong

"Clinical Practice Transformation: Rising to the Challenges"
Sarah A Stoddard, PhD, RN, CNP, FSAHM, FAAN, University of Michigan

"Recalibrating our Global Efforts through Strengthening Health Research"
Frank Donnelly, PhD, SFHEA, The University of Adelaide

Symposium "Preparing for Future Pandemic Risks: What will it take?"

Jennifer Dohrn, DNP, CNM, FAAN, Columbia University

Kimie Tanimoto, PhD, RN, Kagawa University

Rebecca Singer, DNP, RN, University of Illinois Chicago

Shefaly Shorey, PhD, RN, RM, National University of Singapore

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Friday, 6 September 2024

Keynote Speeches

"Breakthrough to Excellence: Optimizing Practice, Education and Research to Improve Health Outcomes"
Lei Cheng, PhD, RN, Fudan University

"Global Learning for Strengthening Health Outcomes"
Sonya Renae Hardin, PhD, MBA/MHA, APRN, FAAN, UT Health San Antonio

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