

# RESEARCH WISDOM

FACULTY OF NURSING, CHIANG MAI UNIVERSITY



WEB APPLICATIONS FOR  
NURSING EDUCATION

IMPACT OF HEALTH  
PROMOTION VIDEO ON  
COVID-19 WELLNESS

NURSECMU SPOTLIGHT:  
DR. WACHIRA SURIYAWONG

|| ||||| ||| SEPTEMBER 2024

VOLUME 11

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# MESSAGE FROM THE DEAN

As this issue of Research Wisdom goes to press, I am proud to report on NurseCMU's recent success with our Global Health Recalibration conference, allowing us to celebrate the completion of yet another successful forum for the exchange of important new concepts and ideas to propel innovation in our field.

With this conference providing such a strong impetus to the development and promotion of stimulating nursing research, it should come as no surprise that this issue again demonstrates a range of interesting high-impact research articles from NurseCMU's most recent output. Our faculty members collaborated on over a dozen publications indexed in Scopus Q1 or Q2 journals over this past quarter.

Featured in this issue are two publications demonstrating the successful use of media and web applications to advance health-related education. Assoc. Prof. Dr. Nongkran Viseskul's study evaluates satisfaction with a web tool for educating nurses on MDRO infection prevention while Asst. Prof. Dr. Warawan Udomkhamsuk led a paper which probed the use of videos to propel health promotion. Please have a look at these and other fascinating studies in our present issue.

We also congratulate NurseCMU faculty member Dr. Wachira Suriyawong on receiving a recent award for his dissertation from Michigan State University, where he completed his doctoral study. Excellent work, Dr. Wachira—we can't wait to see what you bring back to the Faculty of Nursing!

In closing, I want to express my sincere appreciation, once again, to NurseCMU faculty and staff, as well as all of our various sponsors, partners, and participants for all of your contributions to our successful event. You have all demonstrated the unique importance that each and every one of you bring towards the continuous facilitation of knowledge and ideas that keeps our field healthy and vibrant.

Sincerely,

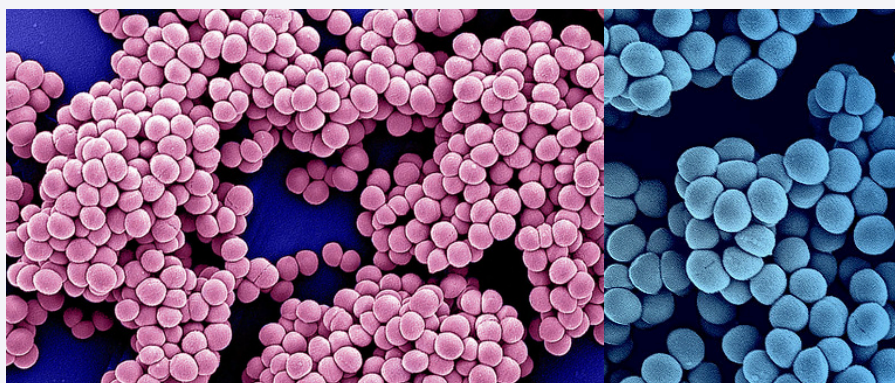
Thanee Kaewthummanukul, PhD, RN, APN  
Assistant Professor and Dean, Faculty of Nursing  
Chiang Mai University

# Nurses' satisfaction with an educational web application to prevent transmission of multidrug-resistant organisms

published in *Nursing & Health Sciences*



**Assoc. Prof. Dr.  
Nongkran Viseskul**



Multidrug-resistant organisms, also known as MDROs, are a growing public health concern, with increasing numbers of infections, which can result in death. Thailand has also seen higher rates of MDRO occurrence, and education in their prevention is, therefore, increasingly necessary for nurses, who are in close proximity to patients at higher rates than any other medical or healthcare workers.

Associate Professor Dr. Nongkran Viseskul believed that, given the restrictions on traditional education brought about during the COVID-19 pandemic, alternative methods of information dissemination were, not only practical, but necessary, going forward. The use of web applications to provide this kind of education is not just a quick-fix solution, but can be part of comprehensive nursing education moving forward.

Dr. Nongkran assembled a distinctly interdisciplinary research team, and the diverse backgrounds of this team--from nursing science and infection control to arts, media, and technology--brought a comprehensive, multidisciplinary perspective which informed the study's design and implementation, while also integrating clinical expertise, health communication strategies, and technological innovation.





**Professor Dr.  
Nongyao Kasatpibal**

As part of the methodology, a 7-step process was used to create the MDROWA (MDRO Web Application) which included tutorial modules, pictures, animation, video clips, drills, and a post-test for assessment. Consideration was given to nurses' previous knowledge regarding MRDOs, and in particular, the knowledge gaps that were evident following a knowledge test on MDROs.



General satisfaction with the tool was high among the nearly 300 nurses who participated with convenience and self-directed learning proving amenable to the nurses, congruent with Knowles Adult Learning Theory. Although it was found that most nurses had moderate or low levels of knowledge, the nature of the MDROWA being tailored to these gaps was a strong point of this research, demonstrating that the web application could respond where it was most necessary.

Further research is certainly needed in different contexts, especially research showing efficacy of the model in terms of lower rates of MRDO incidence. Nevertheless, preliminary signs of learner satisfaction and convenience are very positive. Remarking on the importance of the makeup of her research team, Dr. Nongkran cited taking the initiative to seek out experienced co-researchers and then learning from them as important factors in producing successful, high-impact research. She also commented on the range of possibility for future directions of study in the area of educational web applications in nursing, for example, apps related to cancer care education for use by cancer patients.

**Click [here](#) to read**

# The effectiveness of an information-motivation behavioral skill health promotion video on health status among Chiang Mai University personnel during the COVID-19 pandemic

published in *Journal of Primary Care & Community Health*



**Asst. Prof. Dr.  
Warawan  
Udomkhamsuk**



Let's exercise.  
September 2020



Live with your heart to be happy  
November 2020



Understand diabetes  
January 2021



How to live a long life  
March 2021



How to manage stress  
May 2021



How to lose weight effectively  
July 2021

In another study which explored the use of educational media to inform health promotion, Assistant Professor Dr. Warawan Udomkhamsuk led this investigation of media's effectiveness as a health promotion tool among the staff of our own Chiang Mai University. Published in the *Journal of Primary Care & Community Health*, this top-quartile journal currently boasts a Q1 ranking in both the Community and Home Care, and Public Health, Environmental and Occupational Health disciplines.

As with many interventions popping up over the past few years, the pandemic of 2020 also precipitated this one after the WHO suggested teleworking from home to help stem the spread of COVID-19. Due to the "new normal" also introducing new worries about people's health due to changes in lifestyle and adoption of unhealthy behavior, the idea of health promotion via video became attractive.

Dr. Warawan reasoned that the Information-Motivation-Behavioral Skills (IMB) model would be a useful framework for designing a health promotion intervention as it successfully integrates effective informing, motivating, and empowering of individuals. Therefore, this quasi-experimental research involved the making and subsequent broadcasting of the video, which was done using the Chiang Mai University website as well as trailer videos on social media announcing the latest video release.

Data collection was effectively managed by obtaining ethical approval, ensuring voluntary participation with informed consent, using reliable and validated instruments for assessing quality of life, health risks, and health promotion behaviors, and analyzing data from 528 participants.



**Asst. Prof. Dr.  
Patcharin Chaisurin**



**Assoc. Prof. Dr.  
Wanicha  
Pungchompoo**



Original Research

### The Effectiveness of an Information-Motivation Behavioral Skill Health Promotion Video on Health Status Among Chiang Mai University Personnel During the COVID-19 Pandemic

Warawan Udomkhamsuk<sup>1</sup>, Patcharin Chaisurin<sup>1</sup>, Wanicha Pungchompoo<sup>1</sup>, and Tanutporn Junsiri<sup>2</sup>

#### Abstract

**Purpose:** The purpose of this research was to study the effectiveness of the IMB Educational Health Promotion (IMBEHP) video for improving quality of life, health risk awareness, and health promotion among Chiang Mai University (CMU) personnel. **Methods:** This research was a quasi-experimental study with a 1-group pre-posttest design. The sample group included 528 CMU personnel who worked at the university between June 2020 and December 2021. Data collection was conducted before and after participants watched the IMB health promotion video. **Results:** After watching the video, the participants' quality of life scores were at a medium level. Moreover, physical health, mental health, social relations, and total quality of life score measures showed statistically significant differences between before and after viewing, at  $P < .05$ . The mean total for quality of life increased from the prior intervention implementation. Understanding of health risks also increased after watching the video, and the levels of health risk increased as follows: low level of health risk increased to 343 (64.96%), followed by medium and high health risk, at 21.78% ( $n = 115$ ) and 10.04% ( $n = 53$ ), respectively. Lastly, awareness about nutrition was statistically significant at .05. **Conclusions:** The results of this study demonstrate the efficacy of video in educating, motivating, and developing health-promoting skills among this population. After watching the video, CMU personnel increased their awareness of chronic disease risk factors, health promotion practice, illnesses prevention, healthy behaviors, and improvement of quality of life.

#### Keywords

IMB model, health promotion, healthy behaviors, illness prevention, quality of life

Dates received: 21 December 2023; revised: 13 February 2024; accepted: 13 March 2024.

#### Introduction

In 2020, the World Health Organization (WHO)<sup>1</sup> announced that the coronavirus (COVID-19) was highly infectious and was spreading to many countries. The first COVID-19 case found in Thailand was in January 2020<sup>2</sup> and involved a Chinese tourist who had traveled to Thailand.<sup>3</sup> Subsequently, there were widespread cases among clusters where people gathered in large groups. There was an extreme sense of urgency in many provinces in an attempt to control the spread of COVID-19 in high-risk areas. Some new cases were found in persons with a history of traveling to crowded places, for example to pubs and bars in Chiang Mai province.<sup>4</sup> The WHO suggested teleworking to prevent the

spread of COVID-19.<sup>5</sup> All higher education institutions in Thailand followed this suggestion by implementing work-from-home policies and instituting online teaching.

Due to the COVID-19 pandemic, changes in lifestyle affected university personnel's health behaviors. People's lifestyles began to include unhealthy and risky behaviors,

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The study highlighted that CMU personnel's quality of life declined due to lifestyle changes induced by the COVID-19 pandemic, such as increased sedentary behavior and poor diet. The IMBEHP video effectively enhanced participants' health knowledge and promotion behaviors, leading to improved dietary habits and reduced health risks.

The video, developed based on the IMB model, proved beneficial in increasing health awareness and behavioral skills. However, the study's limitations included the lack of a control group and unaccounted factors affecting quality of life. Future research should include a randomized control trial and address additional influencing factors.

**[Click here to read](#)**



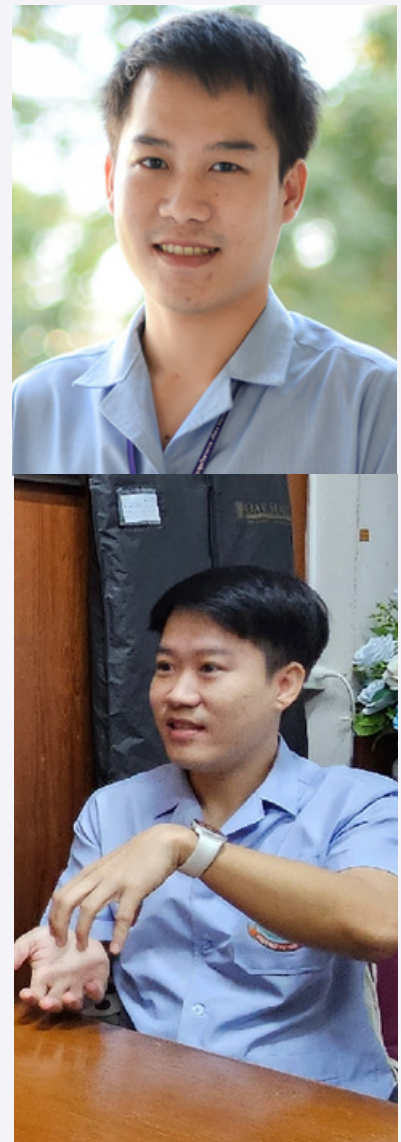
# NurseCMU spotlight on award-winning faculty member

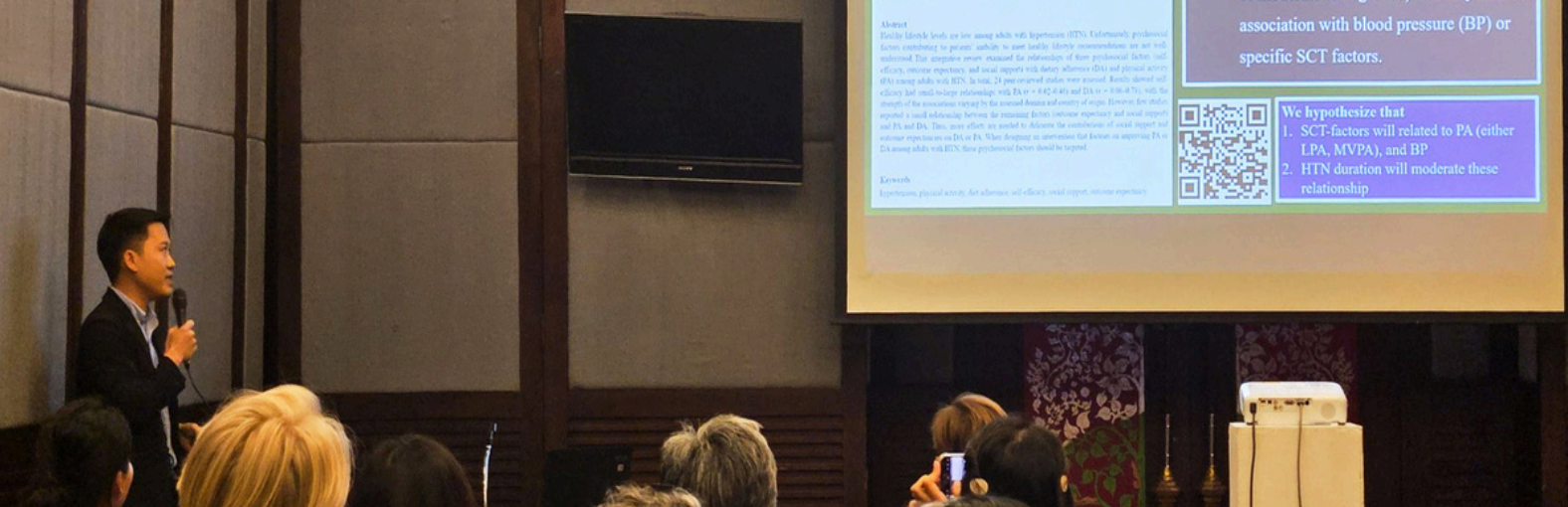
## Dr. Wachira Suriyawong

Several years ago, Wachira Suriyawong left from the Faculty of Nursing to pursue his ambition, a doctoral degree in the United States, from which he has returned late last year. He has jumped right back to a busy work schedule complete with international conference presentations, almost daily clinical supervisions, and his own current research work.

Dr. Wachira did an exemplary job of representing NurseCMU during his doctoral study at Michigan State University College of Nursing, garnering scholarships, grants, and awards for his work. Asked about what helped him balance the demands of living and studying in a new place, Dr. Wachira explained that the backing of his peers was significant. "Peer support helped me through my PhD, both emotionally and academically."

In addition to the completion of his doctoral dissertation, he was also honored as a recipient of the Emeline Hamilton Completed PhD Dissertation Award earlier this year. He will be recognized for this achievement at the Spring 2025 CON Scholarship Award Ceremony. Completing a successful PhD program is already an impressive accomplishment, and topping it off with an award for his research is icing on the cake!





Recently, Dr. Wachira has contributed to several research papers which have been published in Scopus Q1-ranked journals, confirming the critical and impactful nature of the new knowledge in his chosen research areas. Moreover, these accomplishments, while important in and of themselves, should also serve to inspire and motivate those of us in the nursing field who aspire to produce practical, significant research.

Being chosen for the Emeline Hamilton Completed PhD Dissertation Award from an already select group of fellow PhD candidates from MSU, Dr. Wachira undoubtedly leveraged his personal skills and qualities to rise to this challenge

However, he also feels that success at study abroad is within anyone's grasp. "Stay curious, be patient, and don't hesitate to seek help when needed," Dr. Wachira remarked.

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**STAY CURIOUS, BE PATIENT,  
AND DON'T HESITATE TO SEEK HELP**

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Aspiring NurseCMU researchers who are either beginning their further study, or plan to do so, would do well to "focus on curiosity, critical thinking, and resilience", in his words, as the skills which will help them succeed.

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**FOCUS ON CURIOSITY,  
CRITICAL THINKING, AND RESILIENCE**

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# RESEARCH SNAPSHOTS

## Bridging the gap from theory to practice: Teaching evidence-based nursing strategies for developing critical thinkers and lifelong learners

Professor Dr. Patraporn Bhatarasakoon led this review which is a direct response to the increasing demand for the integration of evidence-based practice into nursing education with three main goals: emphasizing the importance of teaching evidence-based nursing within the curriculum; outlining key principles and competencies essential for evidence-based nursing; and offering specific teaching strategies to help nursing students develop critical thinking and research skills. Drawing on recent research and best practices in pedagogy, the authors provide a comprehensive framework for improving how nursing is taught, emphasizing the importance of using evidence-based strategies that are directly applicable to real-world clinical settings. A valuable resource for nurse educators, offering guidance on how to incorporate evidence-based practices into their teaching methods, this paper is a synthesis of research and practical application which supports the ongoing improvement of nursing education by equipping future nurses with the skills and knowledge they need to apply evidence-based practices effectively in a rapidly changing healthcare environment. *Pacific Rim International Journal of Nursing Research*

<https://cmu.to/yyaBp>



Professor Dr.  
Patraporn Bhatarasakoon



## Resilience in family caregivers of Asian older people with dementia: An integrative review

Caregivers of dementia patients in Asian settings are often unpaid family members who undergo high amounts of stress. Following Luthar and Cicchetti's definition of 'resilience', NurseCMU lecturer (and Michigan State University PhD candidate) Thitinan Duangjina led this integrative review investigating factors associated with resilience in this population. Quantitative and qualitative research studies were found via CINAHL, PubMed, EMBASE, PsycINFO and Google Scholar databases, and after screening, 27 articles met the inclusion criteria. Two types of factors could be observed: those associated with adversity and those associated with positive adaptational outcomes. However, in terms of Asian studies, an additional four factors were uncovered: caregiver role strain, stigma, family stress and positive aspects of caregiving; these four factors were in addition to those previously identified in Western studies. A major change can be seen in the movement away from factors associated with adversity to those related to positive adaptational outcomes. Yet gaps still remain with gender and socioeconomic factors remaining understudied. Nevertheless, this review contributes to a deeper understanding of caregiver resilience which can in turn, inform the development of interventions which mitigate the effects of adversity-related factors while promoting those which foster more positive outcomes. *Journal of Advanced Nursing*

<https://cmu.to/9hv3D>



Lecturer Thitinan  
Duangjina





# RESEARCH SNAPSHOTS

## A causal model of factors influencing adherence to standard precautions practices among Chinese emergency nurses: A cross-sectional study

Professor Dr. Patraporn Bhatarasakoon led this review which is a direct response to the increasing demand for the integration of evidence-based practice into nursing education with three main goals: emphasizing the importance of teaching evidence-based nursing within the curriculum; outlining key principles and competencies essential for evidence-based nursing; and offering specific teaching strategies to help nursing students develop critical thinking and research skills. Drawing on recent research and best practices in pedagogy, the authors provide a comprehensive framework for improving how nursing is taught, emphasizing the importance of using evidence-based strategies that are directly applicable to real-world clinical settings. A valuable resource for nurse educators, offering guidance on how to incorporate evidence-based practices into their teaching methods, this paper is a synthesis of research and practical application which supports the ongoing improvement of nursing education by equipping future nurses with the skills and knowledge they need to apply evidence-based practices effectively in a rapidly changing healthcare environment. *Pacific Rim International Journal of Nursing Research*

<https://cmu.to/sOkVC>

## A causal model of factors influencing adherence to standard precautions practices among Chinese emergency nurses: A cross-sectional study

In another study by a NurseCMU doctoral candidate, Thayuta Inkaew, this paper examines factors influencing physical activity among adults with acute coronary syndrome post-percutaneous coronary interventions, using the Health Action Process Approach. The research employed various questionnaires to assess self-efficacy, outcome expectations, risk perception, behavioral intention, planning, and action control. Structural equation modeling revealed that the proposed model explained 46% of the variance in physical activity, with self-efficacy emerging as the most significant direct influence. Planning and action control also played key roles, while outcome expectations impacted physical activity indirectly through intention and planning. The findings suggest that targeted interventions focusing on enhancing self-efficacy, planning, and self-regulation could be effective in promoting physical activity in cardiac rehabilitation although stringent testing for effectiveness is recommended before clinical implementation. *Pacific Rim International Journal of Nursing Research*

<https://cmu.to/3UdtB>



**Assoc. Prof.  
Dr. Wanchai  
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**Assoc. Prof.  
Dr. Pimpaporn  
Klunklin**



**Professor  
Dr. Akeau  
Unahalekhak**  
a



**Assoc. Prof.  
Dr. Chiraporn  
Tachaudomdach**

# RESEARCH SNAPSHOTS

## FirstStep2Health: A cluster randomised trial to promote healthy behaviours and prevent obesity amongst low-income preschoolers

Obesity is often a problem among pre-school age children from low-income families, and promoting healthier lifestyle choices can provide some mitigation. NurseCMU lecturer Dr. Wachira Suriyawong co-authored this study which employed a cluster randomized controlled trial to assess the effects of a 16-week intervention including multiple components done with parents and their children in communities in the United States. Informed by both Social Cognitive Theory and the Actor-Partner Independence Model, the results of implementing the FirstStep2Health program were encouraging, and while including for possible limitations, they support the preliminary efficacy of the program for this population. *Pediatric Obesity*

<https://cmu.to/foXdQ>



**Dr. Wachira Suriyawong**



## Factors influencing work engagement of nurses in general hospitals: A cross-sectional study

NurseCMU produces a large amount of research on nursing in Myanmar, which reflects our robust contingent of graduate students from our close neighbor. In this study led by Master's graduate May Zin Maung Maung, work engagement was the focus of an inquiry into work engagement among nurses in Naypyitaw, Myanmar, and its influencing factors. Using a descriptive predictive design with 206 nurses, the research found that work engagement was generally average. Transformational leadership and psychological capital significantly influenced work engagement, while perceived organizational support, age, and experience had no impact. The findings suggest that nurse administrators should prioritize transformational leadership and psychological capital in strategies to boost work engagement, providing valuable insights for nursing management and policy development. *International Nursing Review*

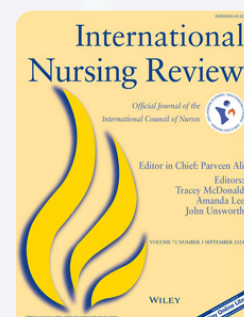
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**Assoc. Prof. Dr. Kulwadee Abhicharttibutra**



**Asst. Prof. Dr. Orn-Anong Wichaikhum**



# RESEARCH SNAPSHOTS

## Exploring the relationships between resilience, burnout, work engagement, and intention to leave among nurses in the context of the COVID-19 pandemic: A cross-sectional study



**Assoc. Prof.  
Dr. Kulwadee  
Abhicharttibutra**



**Assoc. Prof.  
Dr. Apiradee  
Nantsupawat**



**Asst. Prof.  
Dr. Orn-Anong  
Wichaikhum**

Associate Professor Dr. Apiradee Nantsupawat, along with colleagues from Columbia University, Pennsylvania, and CMU, led this cross-sectional study of nearly 400 nurses across 12 hospitals in Thailand, seeking to discover more about how resilience relates to various aspects of nurses' work life. A range of instruments were utilized, and the results were informative: one-third of nurses faced emotional exhaustion and depersonalization, while half experienced reduced personal accomplishment. Moreover, resilience significantly reduced these negative outcomes and increased work engagement. The study suggests that fostering nurse resilience is crucial for improving well-being and job outcomes, particularly in preparing for future public health emergencies. *BMC Nursing*

<https://cmu.to/76HVJ>



## The feasibility of integrating a home telehealth model for older persons living with hemodialysis



**Assoc. Prof.  
Dr. Wanicha  
Pungchompoo**



**Asst. Prof.  
Dr. Warawan  
Udomkhamsuk**

Telehealth is primed to be an increasingly utilized form of healthcare, especially in the era of aging populations. Associate Professor Dr. Wanicha Pungchompoo led this study which explored telehealth in the context of a specific population: older persons living with hemodialysis.

This second phase of what was a wider mixed methods exploratory sequential study aimed to examine the effects of a home telehealth model on quality of life scores and specific aspects of blood chemistry across two groups at two different time periods. Interestingly, mental health scores demonstrated a statistically significant difference at 3 months, while also improving at 6 months (albeit without significance). However, further study is warranted, with larger groups across more settings. *BMC Geriatrics*

<https://cmu.to/EAeTf>





# RESEARCH SNAPSHOTS

## Predictors of nursing performance for patient safety among nurses in regional hospitals: A cross-sectional study

NurseCMU doctoral candidate Siriporn Sangsrijan initiated this cross-sectional study which investigated factors affecting nursing performance related to patient safety among 234 nurses from six regional hospitals in Thailand. Employing validated tools to assess practice environments, patient safety knowledge, attitudes, and performance, the study found that nurses generally reported high levels of performance in patient safety. The most influential predictor was the patient-to-nurse ratio, followed by patient safety knowledge, attitudes, practice environment, and nursing hours per patient day. These variables collectively accounted for 56% of the variance in performance outcomes. The findings underscore the need for nurse administrators and policymakers to develop targeted strategies enhancing these areas, and suggest conducting longitudinal studies across various Thai healthcare settings to confirm and expand upon these results. *Pacific Rim International Journal of Nursing Research*

<https://cmu.to/1CV4j>

Assoc. Prof.  
Dr. Thitinut  
Akkadechanunt



Assoc. Prof.  
Dr. Kulwadee  
Abhicharttibutra



## Exploring the association between loneliness, subjective cognitive decline, and quality of life among older Thai adults: A convergent parallel mixed-method study

Wachira Suriyawong, a PhD candidate at Michigan State University in the US, has co-authored this study which explores the relationship between subjective cognitive decline, loneliness, and quality of life as early indicators of dementia in older adults. Utilizing a mixed-method approach, the research team analyzed data from 149 older adults through Structural Equation Modeling, while qualitative insights were gathered from interviews with 23 of the participants, as well. The findings highlight loneliness as a key factor, indirectly affecting quality of life through subjective cognitive decline. This effect was particularly pronounced in individuals with chronic diseases. The study emphasizes the complex interaction between loneliness and cognitive decline, showing how these elements significantly impact the quality of life in preclinical dementia. For nurses, these insights underscore the importance of addressing loneliness in strategies aimed at improving well-being in older adults at risk of dementia. *Journal of Applied Gerontology*

<https://cmu.to/u2EdF>



Dr. Wachira  
Suriyawong



# RESEARCH SNAPSHOTS

## Determinants and prevalence of exclusive breastfeeding among Thai Muslim mothers: A cross-sectional analysis

NurseCMU doctoral candidate Sirinporn Sukarawan led this study on factors related to exclusive breastfeeding among Thai Muslim mothers--a population with unique beliefs and practices which have a major influence on breastfeeding practices. Set in southern Thailand, 168 mothers were recruited via multi-stage random sampling, and data was collected during the latter half of the year 2022. The use of a wide range of instruments allowed for a deeper understanding of factors influencing exclusive breastfeeding among Thai Muslim mothers. Self-efficacy, in particular, was the lone predictor of exclusive breastfeeding. Moreover, by capturing various dimensions such as self-efficacy, cultural beliefs, and social support, the research provides a more nuanced and well-rounded analysis that can inform culturally tailored interventions to promote breastfeeding. *Pacific Rim International Journal of Nursing Research*

<https://cmu.to/rCwYX>



**Lect. Dr. Nonglak Chaloumsuk**



**Assoc. Prof. Dr. Piyanut Xuto**

## Knowledge, attitude, and practice in preventing infection among patients with cancer receiving chemotherapy



**Asst. Prof. Dr. Natthawan Suwan**



**Assoc. Prof. Dr. Nongkran Viseskul**



**Professor Dr. Nongyao Kasatpibal**

Infections during chemotherapy worsen an already traumatic experience. As limited research was available on what can mitigate the effects of infection for this population, Asst. Prof. Dr. Natthawan Suwan led this investigation into cancer patients' knowledge, attitudes, and practices associated with preventing these types of infections. Employing multiple regression analysis to evaluate factors influencing infection prevention practices, knowledge and attitude were identified as key predictors. The study also found that low to moderate infection prevention knowledge influenced attitudes and practices among cancer patients. Oncology nurses are crucial in developing educational programs to improve infection prevention knowledge, attitudes, and adherence to hygiene practices, thereby reducing infection risks and promoting better health outcomes. *Journal of Nursing Care Quality*

<https://cmu.to/vCH31>

### Knowledge, Attitude, and Practice in Preventing Infection Among Patients With Cancer Receiving Chemotherapy

Natthawan Suwan, PhD, DNP, Nongkran Viseskul, PhD, DNP, Nongyao Kasatpibal, PhD, DNP

**Abstract**  
Background: Infection among patients receiving chemotherapy are at a high risk for developing infections. Infection during chemotherapy can lead to serious complications and even death. The purpose of this study was to explore the knowledge, attitude, and practice related to preventing infection among patients with cancer receiving chemotherapy. **Methods:** A cross-sectional study was conducted among 100 patients with cancer receiving chemotherapy. Data were collected using a questionnaire that assessed knowledge, attitude, and practice related to preventing infection. **Results:** The study found that patients with cancer receiving chemotherapy had low to moderate knowledge, attitude, and practice related to preventing infection. Knowledge was a significant predictor of attitude and practice, while attitude was a significant predictor of practice. **Conclusion:** The study found that patients with cancer receiving chemotherapy had low to moderate knowledge, attitude, and practice related to preventing infection. Knowledge was a significant predictor of attitude and practice, while attitude was a significant predictor of practice.

### Journal of Nursing Care Quality



# RESEARCH SNAPSHOTS

## A causal model of autonomous motivation to modify dietary behavior among people with early-stage chronic kidney disease

During a period of strong research output from our PhD program, another NurseCMU doctoral candidate, Anucha Taiwong, undertook this important study. Using a descriptive cross-sectional approach, she proposed to develop and test a causal model to show how different factors might influence people's motivation to improve their diet. The study involved 308 participants with early-stage chronic kidney disease from ten tertiary hospitals in Thailand. Data were collected using multiple validated questionnaires to assess motivation and other related factors, with the analysis performed through descriptive statistics and structural equation modeling using M-plus software. Intrinsic life aspiration, autonomy support, and autonomy orientation positively influenced motivation to modify behavior, implying that nursing interventions can focus on autonomy orientation, support from healthcare providers, and intrinsic life aspirations. *Pacific Rim International Journal of Nursing Research*

<https://cmu.to/2eHGJ>

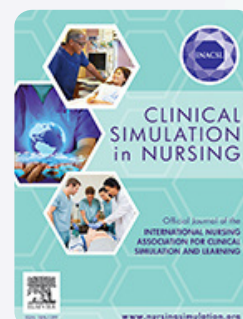


**Assoc. Prof. Dr.  
Chiraporn  
Tachaudomdach**

## Effects of experiential learning simulation-based learning program on clinical judgment among obstetric nursing students

Obstetric nursing students can be presented with limited practice opportunities in real clinical settings, a gap which NurseCMU doctoral candidate, Wassana Uppor, believed could be addressed through a structured Experiential Learning Simulation-Based Learning Program. Using a quasi-experimental design with 44 students, the research team tested a program featuring three simulated obstetrics scenarios (antepartum, peripartum, and postpartum) based on Kolb's Experiential Learning Theory. This approach involved real-life practice, reflection, conceptual thinking, and experimentation. After completing the program, students who participated showed much better clinical judgment compared to those who hadn't joined. The results suggest that this kind of structured simulation can effectively boost clinical judgment skills in nursing students, providing a valuable tool for their education. *Clinical Simulation in Nursing*

<https://cmu.to/pBlmF>



**Assoc. Prof. Dr.  
Sombat Skulphan**



**Assoc. Prof. Dr.  
Nongkran  
Viseskul**



# RESEARCH SNAPSHOTS

## Factors influencing Thai health workers' attitudes toward providing health services to migrants

Asst. Prof. Dr. Orn-anong Wichaikhum led the team for this study which employed a cross-sectional approach with a robust multi-stage sampling method involving 1,557 health workers across five regions in Thailand to assess attitudes toward migrant health services through detailed questionnaires. It integrated diverse factors like personal, systemic, and supportive aspects, with strong internal consistency (Cronbach's alpha = 0.76-0.88), enhancing the reliability of its findings. Positive attitudes were generally found toward migrant health services, with no significant differences between health professionals and support staff. Recommendations include enhancing support systems, such as interpreters and training, to address negative attitudes and improve service efficiency. Further research on service accessibility and quality is needed before broad policy development. *Pacific Rim International Journal of Nursing Research*

<https://cmu.to/qrQG1>



**Assoc. Prof.  
Dr. Kulwadee  
Abhicharttibutra**



**Assoc. Prof.  
Dr. Apiradee  
Nantsupawat**

**Asst. Prof.  
Dr. Orn-Anong  
Wichaikhum**



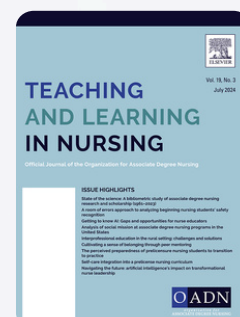
## Enhancing clinical performance self-efficacy among nursing students: A virtual clinical laboratory approach

Assoc. Prof. Dr. Piyanut Xuto drove this innovative study which explored the use of a virtual nursing lab, designed using the Technological Pedagogical Content Knowledge (TPACK) model. The pedagogical approach emphasized active learning by incorporating self-directed learning and role-playing strategies, methods designed to enhance critical thinking and problem-solving skills. Conducted with 106 fourth-year nursing students in Chiang Mai, the research used virtual labs, a tool kit, and surveys to assess effectiveness. Results showed a significant increase in students' clinical performance self-efficacy and high overall satisfaction, suggesting that the virtual nurse lab is a valuable educational tool, boosting both confidence in clinical skills and satisfaction with learning, which ultimately can result in improved patient care outcomes. *Teaching and Learning in Nursing*

<https://cmu.to/Ofc6j>



**Assoc. Prof. Dr.  
Piyanut Xuto**



# RESEARCH SNAPSHOTS

## Meta-analysis of the prognostic value of serum carcinoembryonic antigen in patients with colorectal cancer liver metastases after hepatectomy

Asst. Prof. Dr. Benjamas Suksatit was the corresponding author for this meta-analysis which evaluated the role of serum carcinoembryonic antigen (CEA) in predicting outcomes for patients with colorectal cancer liver metastasis before and after liver resection. Analyzing data from 36 studies with 11,143 patients, high preoperative CEA levels were linked to poorer overall survival and recurrence-free survival. Postoperative CEA levels were also associated with worse OS. The study concluded that elevated pre- and postoperative serum CEA levels are significant indicators of poor prognosis in these patients, regardless of treatment type or other variables. The study calls for more high-quality, multicenter research to refine cutoff values and better understand the relationship between postoperative CEA and patient outcomes. *European Journal of Cancer Prevention: The Official Journal of the European Cancer Prevention Organisation (ECP)*

<https://cmu.to/II3IF>



Asst. Prof. Dr.  
Benjamas  
Suksatit



## Factors predicting quality of nursing care among registered nurses in Myanmar: A cross-sectional study

NurseCMU master's degree students are also contributing to our impressive research output this quarter. MA candidate Thet Phu Zin has produced her contribution to the growing body of important research in the Myanmar nursing context with this study on how nurse staffing, education, work experience, work environment, and job satisfaction affect nursing care quality. Analyzing data from 218 nurses, she found that nurses' work environment, staffing, work experience, and job satisfaction were significant predictors, explaining 56% of the variance in care quality. Despite high overall care quality, the research highlights the need for enhanced nurse recruitment, better budgeting, and supportive work environments. The findings underscore the importance of these factors in improving healthcare quality and provide a model for similar contexts, globally. *Pacific Rim International Journal of Nursing Research*

<https://cmu.to/86trc>



Asst. Prof. Dr.  
Orn-Anong  
Wichaikhum

Assoc. Prof.  
Dr. Kulwadee  
Abhicharttibutra



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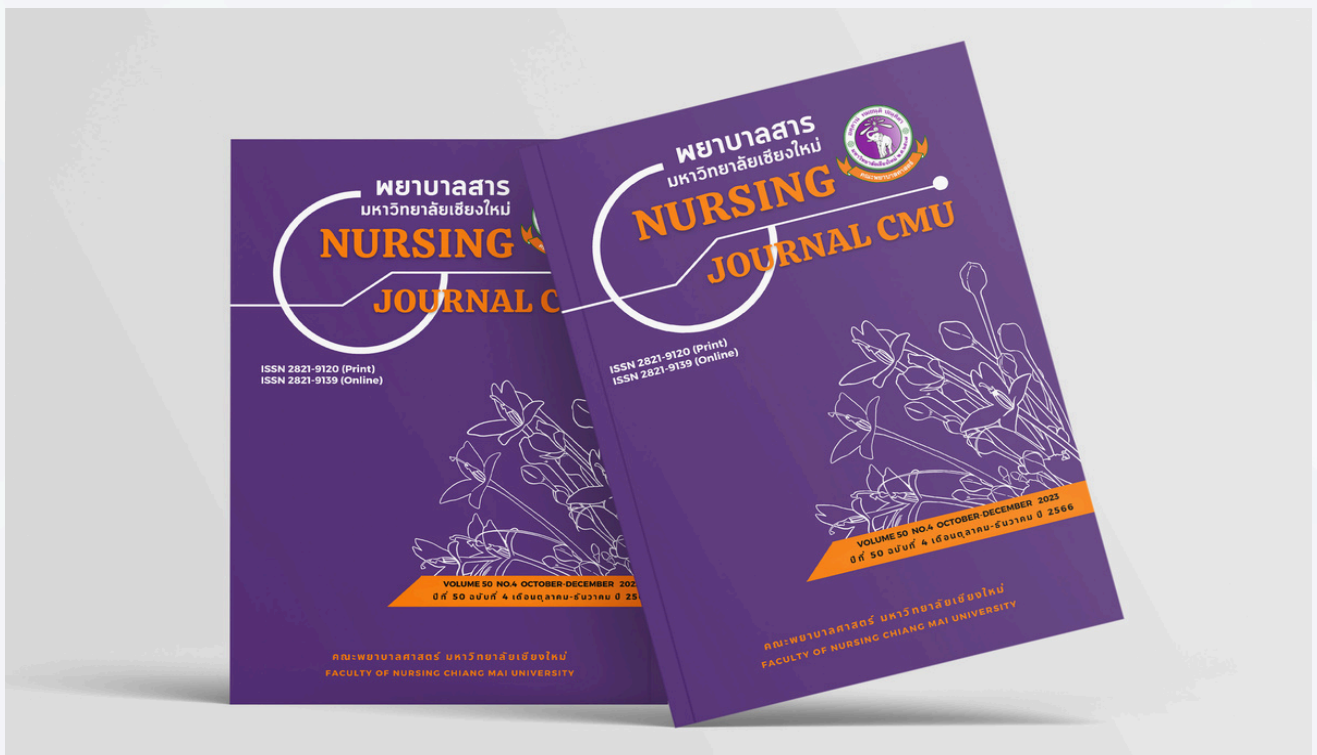
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