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- Senior Exec Lim Shu Hui
- Exec Raden Nurheryany
- CRC Beverly Low
- SACRC Nurliyana Bte Agus

SGH Nursing Research & Innovation- 2021 year-in-review

Grants Awarded

Innovation Grants

- Population Health Innovation Fund (PHIF) Grant (\$99,500)- Enhancing the Hospital-at-Home Experience- Dr (APN) Lim Su-Fee
- Academic Medicine Research Grant (\$79,000)- Al Augmented Smart Mirror to Ensure Proper Donning and Doffing of Personal Protective Equipment- ADN Lee Lai Chee

Research Grants

 Joy at Work Fund (\$1,960)- Building Emotional Resilience Among Health Care Workers Using a Mobile Application Deployed via Staff's Own Devices-Dr (ANC) Lim Siew Hoon

Awards

- Duke NUS Congress 2021 Best Poster- Individual-related Factors on Burnout Experience of Nurses during the COVID-19 Pandemic- SNM Fazila Aloweni
- Duke NUS Congress 2021 Favorite Poster- To Improve Quality of Communication with the Hearing Impaired Elderly Patients in Ward 64 A/C Within 3 Months- NC Ye Lizhen

Nursing Innovation in the News



(Left) "NIMBLE (Nursing Innovation in Mobility-based Learning) IV Cannulation system" featured in Straits Times on 26/07/2021.

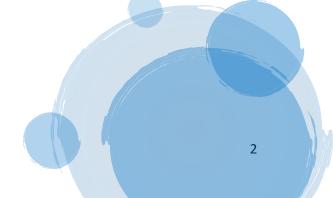


Research & Innovation Focus Areas

- Nursing Care OutcomesPage 3 – 5
- Nursing Workforce Page 6
- Care Transformation Page 7 -- 9
- Patient & Caregiver well-being, education & coping
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- Evidence-Based NursingPage 12 – 13

Publications (N=25)

Journals	Impact Factor
	(IF)
American Journal of Surgery and Clinical Case Reports	(IF: 1.0)
Annals of the Academy of Medicine	(IF: 2.5)
British Journal of Nursing	(IF: 0.4)
Clinical Nursing Research	(IF: 1.6)
F1000Research	(IF:)
Frontiers in Digital Health	(IF:)
Global Challenges	(IF: 4.3)
Infection Disease & Health	(IF: 2.3)
International Journal of Dermatology	(IF: 2.7)
International Nursing Review	(IF: 2.0)
Japan Journal of Nursing Science	(IF: 0.8)
Journal of Advance Nursing	(IF: 2.6)
Journal of Nursing Management	(IF: 2.2)
Journal of Tissue Viability	(IF: 2.4)
Nurse Education Today	(IF: 2.5)
Proceedings of Singapore Healthcare	(IF: 0.6)
Science Advances	(IF: 13.1)
Singapore Medical Journal	(IF: 1.9)
Wound Practice and Research	(IF: 2.5)





Nursing Care Outcomes

Study Status: In Progress

Key Project: A study on socio-economic factors associated with delayed in wound healing and the increased of community-acquired pressure injuries

Aims: To explore socio-economic factors that may have an effect on wound healing in patients with pressure injuries. Factors such as the home environment and practices may affect healing of the wound.

Project team members: Ms Fazila Aloweni, Ms Nanthakumahrie D/O Gunasegaran, Ms Nur Liyana Binte Agus, Ms Ivy Goh Hui Qi, Ms Beverly Leow.

Key Project: Redefining frailty with resilience and self-efficacy in older adults and caregivers in acute care context

Aims: (1) To explore the perceptions and beliefs of frailty in hospitalized older adults and their caregivers; and (2) To understand the roles of resilience and self-efficacy in frail older adults hospitalized in the acute care context; and establish a new model utilising resilience and self-efficacy in the concept of frailty.

Project team members: Dr Lim Siew Hoon, Ms Fazila Aloweni, Ms Thendral Uthman, Ms Nur Liyana Bte Agus.

Key Project: Screening for frailty in hospitalized older adults: Comparative analysis of the validity, reliability and feasibility of three screening tools

Aims: (1) Assess the discriminative ability, based on comparison of the area under the curve (AUC) of three frailty screening tools: FAM, Frail-PPS, and ISAR-HP-for identifying hospitalised older adults at risk of a composite adverse health outcome within three months of discharge from the hospital; (2) determine the interraler reliability of the frailty screening tools; and (3) evaluate the efficiency of the screening tools in terms of the time required of administration.

Project team members: Dr Lim Siew Hoon, Ms Ang Shin Yuh, Ms Yumi Teo Jing Xua, Ms Clara Lee Sze Chung, Ms Cherry Pincel Bacani, Ms Siti Nadiah Binte Yahy, Ms Siti Khadijah Bte Zainuddin, Ms Nur Liyana Bte Agus, Dr Orlanda Goh (MOHH), Ms Daphne Gay (Division of Medicine), A/Prof Rahul Malhotra (Duke-NUS), Prof Truls Ostbye (Duke-NUS).



Nursing Care Outcomes

Study Status: In Progress

Key Project: Comparative effectiveness of a novel crusting method versus standard barrier cream in the treatment of incontinence-associated dermatitis among adult patients in an acute care setting — a randomised controlled trial

Aims: To determine the prevalence rate of patients with incontinence-associated dermatitis (IAD) and evaluate the effectiveness of crusting method in treating IAD compared to standard care.

Project team members: Ms Nanthakumahrie D/O Gunasegaran, Ms Fazila Aloweni, Ms Ang Shin Yuh, Ms Lee Chee Woei, Ms Ong Choo Eng, Mrs Sri Sukarti Bte Mostafa Bin Abdollah, Ms Liew Yi Jia Angela, Ms Tan Wei Xian, Ms Nur Liyana Binte Agus, Ms Saliza Binte Mohamed Said, Dr Ng Yi Zhen (Skin Research Institute of Singapore), Prof Upton Zee (Agency for Science Technology & Research).

Key Project: Hypoglycaemia management post hyperkalaemia treatment with insulin in an acute care tertiary hospital-a quality improvement project

Aims: (1) To determine incidence of hypoglycaemia in adult patients treated for hyperkalaemia with insulin at an acute care hospital, (2) To evaluate associating factors related to the development of hypoglycaemia in adult patients treated for hyperkalaemia with insulin.

Project team members: Dr Lim Siew Hoon, Ms Fazila Aloweni, Ms Ang Shin Yuh, Ms Li Hui Cai, Ms Sum Hsin Yin Claire, Ms Siti Khadijah Bte Zainuddin, Mr Marven Ker Weijie, Ms Esther Ker, Ms Pung Li XinMs Raden Nurheryany Binte Sunari), Dr Teh Ming Ming (Dept of Endocrinology), Ms Chong Shuk Tyng Stephanie¹, Ms Tan Kai Hui¹, (Dept of Pharmacy).¹

Key Project: A service evaluation on the therapeutic and the economic impact of maggot debridement therapy on chronic wounds

Aims: To examine the clinical outcomes, costs and acceptability of chronic wound patients who are on maggot debridement therapy (MDT)

Project team members: Ms Liew Yi Jia Angela, Ms Fazila Abu Bakar Aloweni, Ms Nanthakumahrie D/O Gunasegaran, Ms Rajashulakshana D/O Rajaram, Ms Goh Wee Ting, Ms Lin Lilin, Ms Tan Wei Xian, Ms Beverly Leow Wen Xin), A/Prof Chong Tze Tec⁴, Dr Tay Hsien Ts'ung¹, (Dept of Vascular Surgery).¹



Nursing Care Outcomes

Study Status: In Progress

Key Project: Project title: Evaluation of nurse reported missed care in a Postanaesthesia Care Unit: A mixed-methods study.

Aims: (1) To evaluate the frequency, types and perceived reasons for Nurse Reported Missed Care (NRMC) in the Post-anaesthesisa Care Unit (PACU) setting, (2) Evaluate associations between nurse demographic and workload factors (such as staffing levels and fluctuations in patient volume, acuity and activity), with NRMC; and (3) Explore nurses' perception on type of care provided, facilitators and barriers in providing patient care, and types of NRMC in the PACU setting.

Project Team Members: Ms Laura Heng Mun Tze, Ms Lim Siew Hoon, Ms Darshini Devi d/o Rajasegeran, Ms Yang Jumei.

Key Project: Understanding and improving venous leg ulcer outcomes of patients on compression therapy in the Tropics

Aims: (1) To examine baseline healing rate of VLU patients and to train and assess nurses from Home Nursing Foundation (HNF) on compression therapy application, (2) To evaluate the patient's outcomes in relation to the different type of compression therapy used (healing outcome under different sub-bandage pressure), (3) To compare the wound healing rates between SGH and HNF, (4) To understand factors associated with non-compliance of compression therapy to inform future interventions to improve compliance

Project team members: Ms Tan Wei Xian, Ms Ang Shin Yuh, Ms Goh Wee Ting, Ms Liew Yi Jia Angela, Ms Nur Liyana Binte Agus, Ms Raden Nurheryany Binte Sunari, Ms Fazila Aloweni, A/Prof Chong Tze Tec (Dept of Vascular Surgery), Ms Abdullah Hayaty¹, Ms Chong Yukfong¹, Ms Carolyn Choo¹, Ms Fazrina Fazrina¹, Ms Hendriks Joan¹, Ms Jaafar Shahfadzillah¹, Ms Candace Kok¹, Ms Chitra Kumarasamy¹, Ms Madeleine Lam¹, Ms Siti Mariam Mohamed Amin¹, Ms Shafurah Nur Sha¹, Ms Tan Ai Shan¹, Ms Tan Yeecher¹, Ms Wang Wenming¹, Ms Saipollah Hafidah¹, (Home Nursing Foundation).¹



Nursing Workforce

Study Status: In Progress

Key Project: Building Emotional Resilience Among Health Care Workers **Using a Mobile Application Deployed via Staff's Own Devices**

Aim: To evaluate the effectiveness, usability and acceptability of mobile-assisted cognitive-behavioural therapy in building resilience among nurses working in the acute care setting.

Project Team Members: Dr Lim Siew Hoon, Ms Fazila Abu Bakar Aloweni, Ms Ang Shin Yuh, Ms Raden Nurheryany Binte Sunari, Ms Angelina Foo Xiangying, Ms Beverly Leow Wen Xin, Ms Nur Liyana Binte Agus.

Key Project: An exploratory study of experience and effect of second victim symptoms in Nurses from Singapore

Aim: To explore the experience of second victim symptoms and adverse outcomes among nurses in a public tertiary medical centre in Singapore.

Project Team Members: Dr Lim Siew Hoon, Ms Wahab Siti Namira Binte Abdul, Ms Fazila Aloweni, Ms Choh Chau Lin Andrea, Ms Tan Min Yi, Ms Teo Kai Yunn, Ms Raden Nurheryany, Ms Nur Liyana Binte Agus, Dr Humairah Zainal (Health Services Research Unit, Singapore General Hospital).





Figure 1: eKare inSight™ Wound Management System



Figure 2: Entry on measurement of wound

Care Transformation

Study Status: In Progress

Key Project: Enhancing Post Surgery Recovery with the Use of Telehealth, and **Al-assisted** wound imaging and assessment

Aims: To adopt a digital and image-based solution to manage and virtually assess patients with wounds and surgical drain through collaboration with eKare inSight™ 3D wound management system and to evaluate this new solution. (Figure 1 &2)

Project Team Members: Ms Chua Siew Huang, Ms Nagalingam Saraswathi, Ms Fazila Abu Bakar Aloweni, Ms Ang Shin Yuh, Ms Nanthakumahrie D/O Gunasegaran Ms Esther Monica Fan Peijin, Ms Bernice Yong, Ms Krismaine Ng Li Juan, Ms Darshini Devi d/o Rajasegeran, Ms Aisis Oo Fiona, Ms Beverly Leow Wen Xin, Ms Laura Nil New Lai Ai, Dr Hairil Rizal Bin Abdullah (Dept of Anaesthesiology), Dr Lim Sue Zann (Dept of Breast Surgery), Dr Chan Chung Yip (Dept of Hepato-Pancreato-Biliary Surgery), Dr Cheryl Hui Li Yu (Dept of Plastic, Reconstructive & Aesthetic Surgery), Dr Ng Yi Zhen (Skin Research Institute of Singapore), Ms Dong Mei¹, Ms Suzanne Koh Poh Geok¹, Ms Lee Teng Teng¹, Ms Mabel Tan May Leng¹, (National Cancer Centre)¹.

Key Project: DiSCERN

Aims: To develop a predictive model via system dynamic (SD) modelling to advise decision makers on (1) Nursing human resource management, and (2) Bed management.

Project Team Members: Ms Fazila Aloweni, Ms Ang Shin Yuh, Ms Fan Peijin Esther Monica, Ms Cao Wen, Prof Marcus Ong Eng Hock (Dept of Emergency Medicine), Mr Lam Shao Wei¹, Mr Ang Boon Yew¹, (Health Services Research Center, SingHealth)¹.



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Figure 3: Human-centric lighting along the ward corridor



Figure 4: Smart Mirror used by healthcare workers at Community Isolation Facilities.

Care Transformation

Study Status: In Progress

Key Project: The Effects of Human-centric Lighting on Patients and Nurses
- A Quasi-Experimental Study in an Acute Hospital

Aims: To explore the impact of lighting on three psychophysiological dynamics on nursing staffs and patients in a local hospital: (1) biological response; (2) functional capabilities; and (3) subjective emotional perceptions. (Figure 3)

Project Team Members: Ms Fan Peijin Esther Monica, Dr Ng Lit Soo, Ms Fazila Aloweni, Ms Nur Liyana Binte Agus, Ms Seah Qian Hui Vivian, Ms Leow Wen Xin Beverly, Dr Leow Leong Chai¹, Dr Phua Ghee Chee¹, (Dept of Respiratory & Critical Care Medicine)¹, Dr Chien Szu-Cheng², Dr Yeh I-ling² (Singapore University of Technology and Design)².

Key Project: Hospital Soundscapes

Aims: This study aims to identify the current state of hospital soundscapes in Singapore through a systematic subjective approach.

Project team members: Ms Fan Peijin Esther Monica, Ms Ang Shin Yuh, Dr Lam Bhan (Nanyang Technological University), Dr Hong Jooyoung (Nanyang Technological University), Prof Gan Woon-Seng (Nanyang Technological University), Dr Lim John Wah (Occupational and Environmental Medicine Unit, Singapore General Hospital).

Key Project: Al Augmented Smart Mirror to Ensure Proper Donning and Doffing of Personal Protective Equipment (PPE).

Aims: To develop a smart mirror that is interactive and able to provide visual feedback to the user on the proper donning and doffing of PPE. (Figure 4)

Project team members: Ms Lee Lai Chee, Ms Ang Shin Yuh, Ms Fazila Aloweni, Ms Fan Peijin Esther Monica, Mr Daniel Lim Yan Zheng (Health Service Research Unit, Medical Board).



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Figure 5: Wireframe of MyCare App

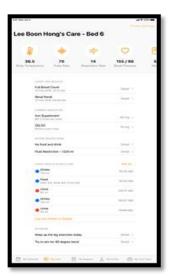


Figure 6: Wireframe of Individual patient clinical care

Care Transformation

Study Status: In Progress

Key Project: Nursing Software Suite

The Nursing Software Suite (NSS) is a technology enabler to reduce administrative tasks for nurses, allowing them to focus on direct patient care and improve patient satisfaction. This involves providing a bedside tablet for each patient, aiming to achieve the following:

- (1) Educate patients and caregivers through better information flow and provide them with greater certainty and peace of mind.
- (2) Empower patients to be part of the recovery process through providing more control.
- (3) Enable patients to better sustain recovery beyond their in-patient to postdischarge recovery. Through such enhanced patient engagement, a win-win outcome is reached where patients have more certainty and control over their recovery.

Currently, our iPads have MyCare App and MyEdu App installed in them. MyCare App allows patients to view their daily schedule, appointment date and time for scheduled upcoming radiological appointments. Patients' vital signs readings, radiological reports and information about their care team will also be made available to them. Patients can also make simple requests to the nurses and send non-urgent messages through the app. (Figure 5 & 6)

MyEdu App is a platform where personalised patient education materials will be made available. Nurses will be able to "push" selected patient education materials to the patient's reading list. Patients will also be able to email to themselves the patient education materials that are beneficial to them.



Patient & Caregiver Well-being, Education & Coping

Study Status: In Progress

Key Project: Understanding the Hospitalization Experience from the Dementia Caregiver's Perspectives and Their Caregiving Needs at Home.

Aims: To understand the hospitalization experience from the dementia caregiver's perspectives, and their caregiving needs at home immediately post-discharge.

Project Team Members: Ms Fazila Abu Bakar Aloweni, Ms Ang Shin Yuh, Ms Esther Monica Fan Peijin, Ms Thendral Uthaman, Ms Beverly Leow Wen Xin.

Key Project: Supporting Self-Management: Understanding the attitudes and perceptions of self-management in patients with venous leg ulcers

Aims: (1) to investigate what are Singaporean's attitudes, perceptions and challenges towards self-management of Venous leg ulcers (VLUs) and (2) to examine the association between sociodemographic and clinical characteristics of patients with VLU and self-efficacy (through self-management practices).

Project team members: Ms Leong Wan Ting Chloe, Ms Fazila Aloweni, Ms Tan Wei Xian, Dr Lim Siew Hoon, Ms Chua Jia Ying, Ms Sahara Bte Abu Bakar, A/Prof Chong Tze Tec (Dept of Vascular Surgery).

Key Project: Enhancing the Hospital-at-Home Experience

Aims: (1) To explore the needs of providers and recipients of healthcare in the community in order to inform the design of an integrated structure to facilitate the delivery of treatment and health monitoring. (2) To design, prototype and pilot the integrated structure. (3) To evaluate the design of the integrated structure.

Project team members: Dr Lim Su-Fee, Dr Rachel Marie Towle, Ms Juweita Arba'in, Ms Gayatri Pravina D/O Thamilselvan, Ms Sharon Mak Lee Hua, Ms Fazila Aloweni, Ms Fan Peijin Esther Monica, Ms Nur Liyana Binte Agus, Ms Ang Shin Yuh.



Patient & Caregiver Wellbeing, Education & Coping

Study Status: In Progress

Key Project: Exploring the knowledge and challenges of patients living with inflammatory bowel Disease in Singapore – A Qualitative Study

Aims: To explore the knowledge, challenges faced and coping mechanisms of patients living with IBD in Singapore.

Project team members: Ms Claire Sum Hsin Yin, Ms Fan Peijin Esther Monica, Ms Loy Kia Lan, Dr Lim Siew Hoon, Dr Lim Chong Teik Thomson (Dept of Gastroenterology and Hepatology).

Key Project: Lived experiences of adolescents and young adults (AYA) with newly-diagnosed acute leukaemia undergoing chemotherapy in Singapore: An exploratory qualitative study

Aims: (1) To explore the psychosocial perspectives and experiences of young adults newly-diagnosed with acute leukemia in coping with their diagnosis, disease and treatment. (2) To explore the motivations, barriers and challenges of young adults newly-diagnosed with leukemia in coping with their diagnosis, disease and treatment.

Project team members: Ms Tay Cheryl, Mr Hwang Chung Cheng, Ms Fazila Abu Bakar Aloweni, Ms Jazreel Thian Hui Min, Ms Tan Zhao Fang Rachel, Dr Lim Siew Hoon.



Evidence Based Nursing

Clinical Query 1: What to do when there is a urine catheter leak and how to choose the correct size catheter?

Focus: Urine catheter leaks, Protocols for catheter leaks

Results & Recommendations:

The possible causes of the leakage/ bypassing are as follows: catheter blockage due to debris, blood clots or constipation, obstructed urine catheter (to check for kinks). Bladder spasm that causes bladder contractions due to UTI, irritation of the bladder due to using larger size urine catheter or concentrated urine (dehydration), or caused by diuretic medications. The patient could also have overactive bladder or bladder stones which requires medical intervention.

In general, choosing the right urine catheter size depends on the patient's gender, the catheter's purpose, and the patient's anatomy. Using the smallest possible catheter reduces the risk of trauma, bladder spasm and leakage. Large catheters may be required for suprapubic catheter, and when there are debris or blood clots in the urine. Beside the catheter size, an overfilled balloon can also cause leakage, discomfort and possible occlusion of the catheter eye. Healthcare professionals are advised not to deflate and re-inflate the catheter balloon to check the amount of water. Instead, after ruling out the possible causes, it is advisable to remove and reinsert a new smaller size urine catheter and observed. If the leakage still persists, an assessment by a urologist may be warranted.

Clinical Query 2: What are the recommended management for extravasation due to intravenous non-cytotoxic vesicant drugs?

Focus: Intravenous non-cytotoxic drugs, extravasation management guidelines

Results & Recommendations:

When extravasation occurs, healthcare staff should stop the intravenous infusion immediately and refer to the grading system for appropriate management. Elevate the affected limb to minimize swelling and to encourage lymphatic resorption of the drug. Provide comfort and pain relief to the patient as needed.

It is also important to prepare extraversion kit and inform the medical doctor incharge immediately so antidote can be ordered. The antidote to be administered also depends on the type of drug that was extravasated. Monitor the extravasation site hourly for the first 24 hours and then once per shift unless indicated. Check with the doctor if any referral to the plastic surgeon is needed. Whether to apply cold or warm compress depends on the drug category (vesicant or non-vesicant).



Evidence Based Nursing

Clinical Query 3: What are the oral care practices on conscious but dependent patients?

Focus: Oral suctioning to remove excess secretion or removing food particles in the mouth and providing oral hygiene.

Results & Recommendations:

Health care providers need to be trained in providing oral care to patients with cognitive impairment or behavioural complexity. In general, a thorough assessment by PT, ST, OT, dentist, and nurses is paramount in determining the risk of aspiration and the device for effective and safe oral care. For patients who are unable to spit or cough out secretion, an oral suction using yankauer or suction toothbrush has been recommended, but for uncooperative patients, a nasopharyngeal suction would be more suitable.

Recommended strategies include engaging in role-play to practice problem-solving of common challenging behaviours such as limited mouth opening, exaggerated bite and gag reflex. The use of devices such as finger guards and bite blocks may also be used to assist patients who clench their jaws or bite toothbrushes; however, health care providers must be trained to use and choose the right type of mouth props.

Bulky mouth prop can cause a gag reflex, obstruct the view, and led to ineffective oral care. Alternatively, a towel, swab or foam stick can be used if the patient cannot open the mouth.

Clinical Query 4: What are the side effects of high dose Methotrexate?

Focus: Monitoring of urine pH, prevention of toxicity

Results & Recommendations:

High dose of Methotrexate increases the risk of acute kidney injury; therefore, close monitoring of MTX level, serum creatinine, urine pH and urine output are necessary during the therapy. In this review, **it is not mentioned or reported consistently the frequency to monitor urine pH.** Nevertheless, given that MTX will cause nephrotoxicity, there is a need to closely monitor the patient's kidney function throughout the therapy course.



Publications (Name of SGH nurses are in bold)

Aloweni, F., Doshi, K., Agus, N., Fook-Chong, S., Wu, S. Y., Kong, L. P., . . . Ostbye, T. Evaluating the feasibility and effectiveness of a mindfulness-based intervention on stress and anxiety of family caregivers managing peritoneal dialysis. *Proceedings of Singapore Healthcare*, *0*(0), 20101058211054913. doi:10.1177/20101058211054913

Aloweni, F., See, M. T. A., Ng. X. P., & Ang, S. Y. (2021). Employing serious game for assessing knowledge of blood transfusion procedure among nurses. A qualitative evaluation and feedback improvement study. *Nurse Educ Today, 101*, 104873. doi:10.1016/j.nedt.2021.104873

Aloweni, F., Uthaman, T., Chong, T.T., Ng, X.P., & Agus, N.L. (2021). (in press). The cost of venous leg ulcers in a Singapore tertiary hospital: an explorative study. *Wound Practice and Research*.

Chai, H. Z., Teo, C., **Ng, L. S**., Hui, S., Sewa, D. W., Phua, G. C., Wong, J., Leong, C., & Goh, K. J. (2021). Rapid training of non-intensivists using an online critical care course during COVID-19. *Annals of the Academy of Medicine, Singapore*, *50*(6), 503–507. https://doi.org/10.47102/annals-acadmedsg.2020451

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Chow, W., Lum, E., Tyebally, A., Chan, S. L., **Lee, L. C.,** Ling, M. L., . . . Tan, N. C. (2021). The art and science of achieving zero COVID-19 transmissions in staff at a large community care facility in Singapore using implementation science: a retrospective analysis. *F1000Research*, *10*, 212.

Fan, E. M. P., Aloweni, F., Lim, M. L., Woh, K. C. Y., & **Ang, S. Y.** Impact of a change in rostering practices on absenteeism: An observational descriptive study. *Proceedings of Singapore Healthcare, 0*(0), 2010105821993497. doi:10.1177/2010105821993497

Fan, E. M. P. J., Ang, S. Y., Phua, G. C., Chen Ee, L., Wong, K. C., Tan, F. C. P., . . . Yeo, K. K. (2021). Factors to Consider in the Use of Vital Signs Wearables to Minimize Contact With Stable COVID-19 Patients: Experience of Its Implementation During the Pandemic. *Frontiers in Digital Health*, 3(121). doi:10.3389/fdgth.2021.639827

Fan, E. M. P., Nguyen, N. H. L., Ang, S. Y., Aloweni, F., Goh, H. Q. I., Quek, L. T., . . . Ong, E. H. M. (2021). Impact of COVID-19 on acute isolation bed capacity and nursing workforce requirements: A retrospective review. J Nurs Manag, 29(5), 1220-1227. doi:10.1111/jonm.13260



Publications (Name of SGH nurses are in bold)

- Goh, K. J., Chai, H. Z., Ng, L. S., Phone Ko, J., Tan, D., Tan, H. L., Teo, C., Phua, G. C., & Tan, Q. L. (2021). Outcomes of second-tier rapid response activations in a tertiary referral hospital: A prospective observational study. *Annals of the Academy of Medicine, Singapore*, 50(11), 838–847. https://doi.org/10.47102/annals-acadmedsg.2021238
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- **Leong, F. F.,** He, H.-G., Premarani, K., & **Lim, S. H.** Nurses' perceptions of nursing education transformation and its impact on care delivery in Singapore. *International Nursing Review, n/a*(n/a). doi:https://doi.org/10.1111/inr.12733
- **Lim, S.,** Bouchoucha, S., **Aloweni, F., & Suhari, N.** (2020). Evaluation of infection prevention and control preparedness in acute care nurses: Factors influencing adherence to standard precautions. *Infection Disease & Health, 26*. doi:10.1016/j.idh.2020.11.005
- Lim, S. H., Lim, M. L., Aloweni, F. A. B., & Ang, S. Y. (2021). Audit of the appropriateness and accuracy of fluid intake and output monitoring: experience in a tertiary hospital. *Br J Nurs*, 30(11), 660-664. doi:10.12968/bjon.2021.30.11.660
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- Liow, M. H. L., **Lee, L. C.,** Tan, N. C. K., Tan, H. K., Chow, W., Wee, G. L. E., . . . Ling, M. L. (2021). Personal protective equipment training for non-healthcare workers in the Covid-19 pandemic: Effectiveness of an evidence-based skills training framework. *Infect Dis Health*. doi:10.1016/j.idh.2021.09.040
- **Rajaram, R.,** & Fong, P. L. (2021). Benign Metastasizing Leiomyoma: A case report. *American Journal of Surgery and Clinical Case Reports*, 3(9), 1-6.
- **Seow, J. P.,** Chua, T. L., **Aloweni, F., Lim, S. H., & Ang, S. Y.** (2021). Effectiveness of an integrated three-mode bed exit alarm system in reducing inpatient falls within an acute care setting. *Jpn J Nurs Sci*, e12446. doi:10.1111/jjns.12446
- Teo, J. Y., Kng, J., Periaswamy, B., Liu, S., Lim, P.-C., Lee, C. E., **How, M**. . . Yang, Y. Y. (2021). Exploring Reusability of Disposable Face Masks: Effects of Disinfection Methods on Filtration Efficiency, Breathability, and Fluid Resistance. *Global Challenges*, 5(11), 2100030. doi:https://doi.org/10.1002/gch2.202100030



Publications (Name of SGH nurses are in bold)

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