

# JAPAN JOURNAL OF NURSING SCIENCE

VOLUME 16 • ISSUE 2 • 2019

## ORIGINAL ARTICLES

- International nurses to the rescue: The role and contribution of the nurses of the International Brigades during the Spanish Civil War  
*Isabel ANTON-SOLANAS, Ann WAKEFIELD and Christine E. HALLETT* 103
- Nursing students' experiences of using a smart phone application for a physical assessment course: A qualitative study  
*Li-Ling HSU, Hsiu-Chuan HSIANG, Yi-Hua TSENG, Siang-Yun HUANG and Suh-Ing HSIEH* 115
- Factors affecting Korean neonatal nurses' pain care: Psychometric evaluation of three instruments  
*Haeyoung MIN, Catherine VINCENT, Chang G. PARK, Alicia K. MATTHEWS, Linda L. MCCREARY and Margot LATIMER* 125
- Clinical validation of the nursing diagnosis of impaired memory in patients with a stroke  
*Gabriele de LIMA FERREIRA, Marcos V. de OLIVEIRA LOPES, Michelle H. MONTORIL, Camila M. DINIZ and Rosimere F. SANTANA* 136
- Preliminary study of outcome-based clinical practicum for undergraduate nursing students  
*Kyunghwa LEE, Sanghee KIM and You Lee YANG* 145
- Core nursing competency assessment tool for graduates of outcome-based nursing education in South Korea: A validation study  
*YuKyung KO and Soyoung YU* 155
- Safety and efficacy of using vascular closure devices for hemostasis on sheath removal after a transfemoral artery percutaneous coronary intervention  
*Shu-Fen SU, Mei-Yu CHANG, Meng-Shan WU and Ying-Chin LIAO* 172
- Effect of Web-based diabetes training program on diabetes-related knowledge, attitudes, and skills of health professionals: A randomized controlled trial  
*Gülten KARAHAN OKUROĞLU and Şule ECEVİT ALPAR* 184
- Qualitative study on the experiences of hepatitis B carriers in coping with the disease  
*Leila VALIZADEH, Vahid ZAMANZADEH, Ali ZABIHI, Reza NEGARANDEH and Seyedeh Roghayeh JAFARIAN AMIRI* 194
- Effect of progressive muscle relaxation on the caregiver burden and level of depression among caregivers of older patients with a stroke: A randomized controlled trial  
*Cemile Kürtmeç YILMAZ, Güler Duru AŞİRET, Funda ÇETİNKAYA, Gülay OLUDAĞ and Sevgisun KAPUCU* 202
- Factors affecting parents' satisfaction with pediatric wards  
*Spyridoula TSIRONI and George KOULIERAKIS* 212
- Effect of time pressure on the burnout of home-visiting nurses: The moderating role of relational coordination with nursing managers  
*Xiaoyi CAO and Takashi NARUSE* 221

## BRIEF REPORT

- Resilience and difficulties of parents of children with a cleft lip and palate  
*Shingo UEKI, Yuichi FUJITA, Mika KITAO, Yukari KUMAGAI, Miho IKE, Kazuteru NIINOMI, Eriko MATSUNAKA and Chieko FUJIWARA* 232

# NURSING SCIENCE

Official Journal of the Japan Academy of Nursing Science

## Editor-in-chief

HOLZEMER, William L., RN, PhD, FAAN, *Rutgers, The State University of New Jersey, School of Nursing*

## Associate Editor

ETO, Hiromi, RN, CNM, PhD, *Nagasaki University, Graduate School of Biomedical Sciences*

## Editors

FUKAI, Kiyoko, PhD, RN, PHN, *Okayama University, Graduate School of Health Sciences*

GREGG, Misuzu F., RN, PhD, *Kobe City College of Nursing*

HOHASHI, Naohiro, PhD, RN, PHN, FAAN, *Kobe University Graduate School of Health Sciences*

HORIUCHI, Shigeko, RN, CNM, PhD, *St. Luke's International University, College of Nursing*

IKEDA, Rie Nakamura, RN, CNM, PhD, *Okayama Prefectural University, Faculty of Health and Welfare Sciences*

ISHIHARA, Itsuko, PhD, RN, *Kobe City College of Nursing*

ISHIKAWA, Yoko, RN, PHN, PhD, *Tokyo Metropolitan University*

KATO, Kenji, RN, PHN, PhD, *Kobe City College of Nursing*

KITAOAKA, Kazuyo, RN, PhD, *Kanazawa University, Institute of Medical, Pharmaceutical and Health Sciences, Faculty of Health Sciences*

KOBAYASHI, Kyoko, PhD, RN, PHN, *St. Luke's International University*

MAEDA, Hitomi, RN, PhD, *Kumamoto University, Faculty of Life Science, Department of Nursing*

MARUYAMA, Akiko, RN, PhD, *Kyoritsu Women's University, Faculty of Nursing*

NAGATA, Satoko, RN, PHN, PhD, *The University of Tokyo, Graduate School of Medicine, Division of Health Sciences and Nursing*

NAKAMURA, Misuzu, RN, PhD, *Fichi Medical University, School of Nursing*

NISHIGAKI, Masakazu, RN, PHN, CGC, PhD, *Kyoto University, School of Human Health Science*

NOGUCHI, Mayumi, RN, CNM, PhD, *Japanese Red Cross Toyota College of Nursing*

OKADA, Ayako, PhD, RN, CNS, *University of Hyogo, College of Nursing Art and Science*

SHIRAIISHI, Mie, RN, CNM, PhD, *Osaka University, Division of Health Sciences, Area of Nursing Science*

SUZUKI, Miho, RN, ANP, PhD, *The Cancer Institute Hospital of Japanese Foundation for Cancer Research*

TSUKINOKI, Rumi, RN, PHN, PhD, *Japanese Red Cross College of Nursing*

UMEDA, Maki, RN, PHN, MPH, PhD, *St. Luke's International University*

YAMAKAWA, Miyae, BSN, PhD, *Osaka University, Division of Health Sciences, Area of Nursing Science*

YAMAZAKI, Akemi, RN, PhD, *Osaka University, Division of Health Sciences, Area of Nursing Science*

## Managing Editor

SUGAMA, Junko, PhD, RN, *Kanazawa University, Institute for Frontier Science Initiative*

## International Advisory Board

AMARSI, Yasmin, RN, PhD, *School of Nursing, The Aga Khan University, Pakistan*

CARLSON, Barbara, RN, PhD, *College of Nursing, Donald W. Reynolds Center of Geriatric Nursing Excellence, University of Oklahoma Health Sciences Center, USA*

DAI, Yu-Tzu, RN, PhD, *School of Nursing, National Taiwan University, Taiwan*

HUIJER, Huda Abu-Saad, RN, PhD, FEANS, *School of Nursing, American University of Beirut, Lebanon*

HUMAN, Sarie, RN, PhD, *Department of Advanced Nursing Sciences, Putria (UNISA), University of South Africa, South Africa*

LEE, Chung Yul, RN, PhD, *Yonsei University College of Nursing, Korea*

MAGILVY, Kathy, RN, PhD, FAAN, *University of Colorado at Denver College of Nursing, USA*

MILL, Judy, RN, PhD, *Faculty of Nursing, University of Alberta, Canada*

NOLAN, Mike, MA, MSc, PhD, RN, *Sheffield Institute for Studies on Ageing, University of Sheffield, UK*

NORR, Kathleen F., PhD, *UIC College of Nursing, Women, Children and Family Health Sciences College of Nursing, USA*

PHUPHAIBUL, Rutja, RN, PhD, *Department of Nursing, Faculty of Medicine at Ramathibodi Hospital, Mahidol University, Thailand*

SELOILWE, Esther Salang, RN, PhD, *University of Botswana, Department of Nursing Education, Botswana*

TUAZON, Josefina A., RN, MN, DrPH, *University of the Philippines Manila, College of Nursing, Sotejo Hall, Philippines*

**Address for Editorial Correspondence:** Professor William L. Holzemer, Editor-in-Chief, *Japan Journal of Nursing Science* Editorial Office, 5F TK Bldg, 2-38-14 Hongo, Bunkyo-ku Tokyo 113-0033 Japan, email: [jjns-editorial@primeassociates.jp](mailto:jjns-editorial@primeassociates.jp); tel: +81-3-5805-0527, fax: +81-3-3812-5187.

**Disclaimer:** The Publisher, Japan Academy of Nursing Science and Editors cannot be held responsible for errors or any consequences arising from the use of information

contained in this journal; the views and opinions expressed do not necessarily reflect those of the Publisher, Japan Academy of Nursing Science and Editors, neither does the publication of advertisements constitute any endorsement by the Publisher, Japan Academy of Nursing Science and Editors of the products advertised.

Copyright © 2019 Japan Academy of Nursing Science.

## COPYRIGHT AND COPYING

Copyright © 2019 Japan Academy of Nursing Science. All rights reserved. No part of this publication may be reproduced, stored or transmitted in any form or by any means without the prior permission in writing from the copyright holder. Authorization to copy items for internal and personal use is granted by the copyright holder for libraries and other users registered with their local Reproduction Rights Organisation (RRO), e.g. Copyright Clearance Center (CCC), 222 Rosewood Drive, Danvers, MA 01923, USA

([www.copyright.com](http://www.copyright.com)), provided the appropriate fee is paid directly to the RRO. This consent does not extend to other kinds of copying such as copying for general distribution, for advertising or promotional purposes, for republication, for creating new collective works or for resale. Permissions for such reuse can be obtained using the RightsLink "Request Permissions" link on Wiley Online Library. Special requests should be addressed to: [permissions@wiley.com](mailto:permissions@wiley.com).

ISSN 1742-7924 (Online)

For submission instructions, subscription, and all the latest information, visit <http://wileyonlinelibrary.com/journal/jjns>