

COMPLETION REPORT

Amarsaikhan Dashtseren

Mongolian National University of Medical Sciences

Comparative Analysis on Workstation and Workload of Japanese and Mongolian Nursing Professionals

In this research we aimed to study workload and workstations of Japanese and Mongolian nurses comparatively in order to process evidence based job description and standards of workload for nursing professionals that compensates with the professional skills, workload, responsibility, workload, and labor law. Although the educational background of the employed nurses are relatively similar to all nurses, workload and responsibilities are varying by hospital departments. Therefore, we aimed to study practices from highly developed Asian country Japan. Four oral presentations, one research article, and three guidebooks for nurses and students were published as part of the research work.

The following results were obtained from the comparative research.

We aimed to rank 28 chosen workstations based on level of arduousness and intensity for nursing professionals in Japan and Mongolia. We have also extended the study by exploring the relationship between working environment and intensity of workloads, aiming to identify the key determinants that amplify the intensity of workload.

We have employed cross sectional study model and utilized an official ranking criteria approved by Ministry of Labour and Social Protection and Ministry of Health in Mongolia. Covering 200 participants, domestically this study was conducted at The First Central Hospital and The Second Central Hospital of Mongolia in Ulaanbaatar, Provincial Central Hospitals of Zavkhan, Arkhangai and other provincial hospitals. In Japan, also 200 participants were chosen from Fukuyama Central Hospital in Hiroshima Province, Kokura Kinen Hospital in Kitakyushu city of Fukuoka Province, Sakai Central Hospital and Wakakusa Hospital in Osaka, Takasugi Hospital in Okayama Province, Hoetsu Hospital in Tokushima Province and Kouzushima Island Medical Center in Tokyo. Thus, in total, 400 participants took part in this study.

Ranking the results based on points, it became clear that in both Mongolia and Japan, nursing professionals working at the Intensive Care Unit (ICU), Anesthesia and Emergency Medicine Departments and professionals holding the position of Senior Nurse were ranked in top five for intensity of workload. The main difference observed was that, in Japan, oncology nursing ranked first, while in Mongolia, hemodialysis nursing was ranked fifth. The main variables that impacted the outcome were communication, training and knowledge, critical thinking, problem solving, planning skills and usage of physical strength at work station.

We hope that the results of this research will contribute to the objective evaluation of the workload and renewing of the job description of nursing professionals according to their responsibilities.

Publication of the Results of Research Project:

Verbal Presentation (Date, Venue, Name of Conference, Title of Presentation, Presenter, etc.)

1. **Davaakhuu.V, Amarsaikhan.D** "Study on Workstation and Workload of Nursing Professionals", The 63-rd Scientific Conference "Erdmiin Chuulgan" of MNUMS, Ulaanbaatar, April 14, pp. 124-125. 2021
2. **Davaakhuu. V** at all "Implementation and evaluation of standard nursing guidelines". University health system first symposium, abstract book pp.116-117, 2022
3. **Davaakhuu. V** at all "Development of documents for the establishment of a new nursing department under Japanese management". University health system first symposium, abstract book pp. 120-121, 2022
4. **Davaakhuu.V** at all "The assessment of nursing care quality regulation". University health system first symposium, abstract book p.122, 2022

Thesis (Name of Journal and its Date, Title and Author of Thesis, etc.)

1. **Amarsaikhan.D, Davaakhuu.V** "Comparative Study on Workstation and Workload of Japanese and Mongolian Nursing Professionals". Journal of Health Sciences'. Vol.18, №7,(71) 2022; 25-31.

Book (Publisher and Date of the Book, Title and Author of the Book, etc.)

- 1.**Davaakhuu. V, Editor: Amarsaikhan.D** "Nursing Care in peripheral arterial disease". Ulaanbaatar, 2022.
- 2.**Davaakhuu. V**, "Student guidebook to nursing practice". Ulaanbaatar, 2022.
3. **Davaakhuu. V**, "Nursing handbook". Ulaanbaatar, ISBN:978-9919-27-795-6, 2022.