

## Wound Management and Skin Care

We aim at constructing the evidence of wound management and skin care from an interdisciplinary approach

### Prof. Toshio NAKATANI

#### Research Theme

- Process of cutaneous wound healing
- Determination of injection site for intramuscular injections
- Lymphoedema animal model
- Effect of cold plasma on wound healing

### Prof. Junko SUGAMA

#### Research Theme

- Prevention of pressure ulcer and wound
- Lymphoedema and chronic oedema
- Skin care for skin frailty
- Nursing care for diabetic foot ulcer
- Dry skin of elderly patients
- Relationship between microbiome and pressure ulcer recurrence

### Prof. Mayumi OKUWA

#### Research Theme

- Wound assessment and management
- Preventive care and technical development for leg ulcer
- Skin assessment for radiation therapy patients
- Pain associated with wound treatment

### Prof. Makoto OE

#### Research Theme

- Prevention of diabetic foot ulcers using a thermography
- Introduction of diabetic foot ulcer prevention clinics in Indonesia
- Development of DMIST for monitoring healing of diabetic foot ulcers

#### Clinical Research

- Evaluation of skin structure and function using engineering devices such as ultrasonography, thermography and MRI.
- Verbalization of skin shape and characteristics by qualitative sketching technique.
- Evaluation of skin using molecular biological analytical technique.

Qualitative sketching for pressure ulcer



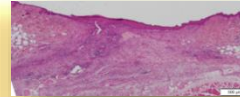
#### Nursing Bioengineering



Development of air-matress

- Development and evaluation of products necessary for medical treatment environment by the Academic-Industrial research collaboration

#### Basic Research



Tissue staining of skin

- Mechanism elucidation of wound healing using an animal and cell-line model.
- Anatomical verification on the course and positional relationship of nerves and veins, and evaluation of the site determination method for puncture.

### Associate Prof. Kazuhiro OGAI

#### Research Theme

- Development and utilization of non-invasive skin protein analysis with proteomics technique
- Investigation of the changes of skin physiological functions and skin dysbiosis in older people

### Associate Prof. Kanae MUKAI

#### Research Theme

- Evaluation of the effect of estrogen on cutaneous wound healing
- Investigation of the relationship between cutaneous nerves and veins
- Investigation of the influence of hormones for improvement of the women's wellness

### Assistant Prof. Yukari NAKAJIMA

#### Research Theme

- Mechanism of lymphoedema and development of new treatment for patients with lymphoedema
- Investigation of effective nursing care for patients with lymphoedema
- Investigation of a safe intramuscular injection site

### Assistant Prof. Shohei OKIDA

#### Research Theme

- Relationship between self-care and oral microbiome in patients undergoing chemoradiotherapy for head and neck cancer

# Presentations in International Conferences

## Main International Conference

- International Lymphoedema Framework Conference
- Congress of World Union of Wound Healing Societies
- East Asian Forum of Nursing Scholars

Our 2019 achievements: 13 papers, 28 presentations, 1 prize (Including Japanese society)

## Collaboration with other fields and facilities

### Other fields in our university

- School of Medicine
- Institute for Frontier Science Initiative

etc.

### Other university

- The University of Tokyo
- Ishikawa Prefectural Nursing University
- University of Nottingham
- Muhammadiyah University

etc.

### Medical care facilities

- Kanazawa University Hospital
- Sengi Hospital
- Johoku Hospital
- Kitamura Clinic (in Indonesia)

etc.

## Skills you will develop in our laboratory

\* You will be able to;

- 1) Develop your knowledge about pressure ulcer.
- 2) Perform comprehensive wound assessment.
- 3) Improve your practical skills of wound management and skin care.

You will expand your knowledge and practical skills of wound management and skin care required for a nurse

\* You will be able to;

- 1) Plan and conduct a research based on logical thinking required for a nursing researcher.
- 2) Improve your scientific writing and presentation skills in English.  
(You can participate in our seminar in English)

You can develop critical thinking and presentation skills necessary for a global nursing researcher

## Foreign students graduated from our laboratory

Master course: 6 graduates, Doctoral course: 6 graduates

## Career after graduation from our laboratory

### Hospital

Kanazawa University Hospital  
St Luke's International Hospital  
Nagoya University Hospital

etc.

### Educational Institution

Kanazawa University  
The University of Tokyo  
Nagoya University  
Niigata University  
Kanazawa Medical University

etc.

Website of our laboratory

URL : <http://wmn.w3.kanazawa-u.ac.jp/>

Please visit our website today for more information!