

『知の創造、科学との融合 -advanced for nursing-』

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 honey on wound healing
- Influence of obesity 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

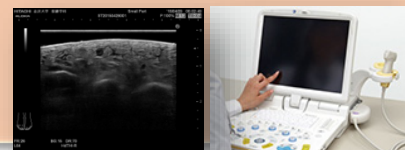
Prof. Mayumi OKUWA

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

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.



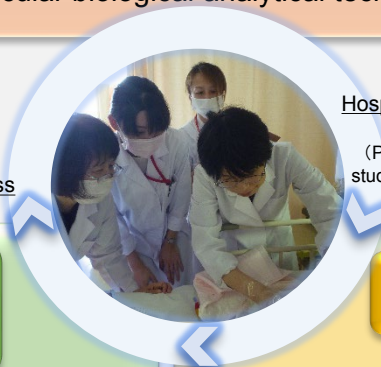
Assessment of oedema by ultrasonography



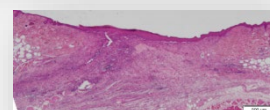
Qualitative sketching for pressure ulcer



Development of air-mattress



Hospital rounds for patients with pressure ulcer
(Prof. SUGAMA, graduate students and a hospital staff)



Tissue staining of skin

Nursing Bioengineering

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

Basic Research

- 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

Assistant 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

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 2018 achievements: 15 papers, 16 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
- Iwate Prefectural University
- Kanazawa Medical University
- Yamagata 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: 4 graduates

Career after graduation from our laboratory

Hospital

Kanazawa University Hospital
St Luke's International Hospital
Keio University 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!