HIROSHIMA UNIVERSITY

Graduate School of Health Sciences

広島大学大学院保健学研究科



Dean's Message

Graduate School of Health Sciences



Yoshito TANAKA, MD, PhD Dean and Professor

Our graduate school, one of eleven graduate schools of Hiroshima University, was founded in 1992 and celebrated its 15th anniversary last year. Located in Hiroshima city, our school has three courses for nurses, physical therapists and occupational therapists at the undergraduate level, and two courses to award Master's degree (in Nursing or Health Science), and Doctorate (in Nursing or Health Science) at the graduate level.

Department of Nursing Science



Kyoko YOKOO, RN, NM, PhD Associate Dean and Professor

Our mission is to educate and train professional nurses with a strong sense of responsibility to promote health, prevent illnesses, restore health and alleviate sufferings of people. To achieve this mission, our undergraduate program is administered under the concept of *health promotion, self care and disease management*, and the graduate program is offered in seven areas of specialization in advanced nursing science through research and clinical practice and service of the highest standard. Our outstanding members of faculty and students have been the source of our advancement in nursing science and practice.

Department of Physical Therapy and Occupational Therapy Sciences



Hitoshi OKAMURA, MD, PhD. Associate Dean and Professor

This department consists of two disciplines, physical therapy and occupational therapy. The degrees granted include master's and doctor's degrees. Hiroshima University was the first university to grant these degrees in Japan. The mission of this department is to advance, preserve, disseminate, and apply knowledge in the health and rehabilitation sciences in physical therapy and occupational therapy. To achieve this mission, our department contributes to the following: 1) preparing professionals to function as leaders in the education, research, and practice of physical therapy or occupational therapy, 2) engaging in scholarship and research

that build and apply to our professions' bodies of knowledge, and 3) collaborating with others in strategic partnerships within the university and the community to advance physical performance and human occupation.

Hiroshima University Center for Advanced Nursing Practice and Research Center for Advanced Practice and Research of Rehabilitation

Center for Advanced Practice and Research of Rehabilitation, attached to Graduate School of Health Sciences, Hiroshima University, was founded in February, 2009. The purpose of this center is to play a role in educating rehabilitation staff who possess practical faculties of rehabilitation and in carrying out project research regarding advanced rehabilitation. The center aims to contribute to improving rehabilitation environments and providing high quality rehabilitation for local residents.



Graduate School of Health Sciences and Undergraduate Education



History

April, 1996	A master degree course with major in Health Sciences was established in the Graduate School of Medical Sciences.
April, 1998	A doctoral course with a major in Health Sciences was established in the Graduate School of Medical Sciences.
April, 2004	Graduate School of Health Sciences was established.
June, 2006	Center for Advanced Nursing Practice and Research was established.
April, 2007	Certified Nurse Specialists (CNS) course under the Center for Advanced
September	Certified Nurse in Palliative Care Course was established.
February, 2009 September	Center for Advanced Practice and Research of Rehabilitation was established. Certified Nurse in Neonatal Intensive Care Course was established.

Research Areas

Fundamental Nursing

Professor Yukiko MIYAKOSHI, RN, NM, PHN, MA, PhD.



The principle and fundamental nursing study offers basic knowledge and skills for professional clinical nursing practices specifically, history, theory, concepts, service and care delivery systems, administration, education of nursing, and, understanding human beings as an object of nursing,

based upon the actuality of assessing outcomes of nursing care. Therefore, the area of research and education covers a wide range in health sciences and nursing, such as: the influence of common nursing care and skills upon the human body and health behaviors, by using techniques from physiology, biochemistry, and human engineering, from various angles, the development of more effective nursing-intervention methods for all people, and the improvement of educational methods for students.

Health Informatics Professor Masayuki KAKEHASHI, DSc, PhD.



The mission of our laboratory is to find out and establish useful information on health-related factors in health promotion. To achieve this mission, health-related socio-economic data and outcome data are collected and analyzed using mathematical

models and statistical methods. The actual research topics include: analysis and prediction of infectious disease spread, relationship between the incidence of coronary heart disease and weather conditions, questionnaire survey study on health promotion, and study of medical expense and related factors.

Health Promotion and Developmental Science Professor Toshio KOBAYASHI, MD, PhD.



Our education and research targets are various health-related phenomena, including health promotion, nursing administration, international health, occupational health, and environmental health. Various kinds of health-related professionals gather together and discuss

health-related phenomena. Our current research themes include: 'Risk management and stress management', 'Epidemiology in lifestyle-related disease and health promotion', 'Health care systems in developing countries', 'Co-operation among public health, occupational health, and school health', 'Physiological and biochemical analysis of health behaviors'.

Mental Health and Psychiatric Nursing Professor Hiroko KOKUSHO, RN, PHN, MN.



Our major research area is promotion and maintenance of mental health and nursing support to people suffering from mental health problems. More specifically, our research focuses on support to mentallyhandicapped people in the community,

their QOL and care, perception of the mentally handicapped and protection of human rights.

Child Health Care Professor Yoshito TANAKA, MD, PhD.



We are concerned with the health promotion of children and their families, and are carrying investigations forward, in the fields of chronic illnesses and disabilities, child maltreatment, developmental disorders, and pediatric

oncology.

Midwifery and Maternal-Newborn Nursing Professor Kyoko YOKOO, RN, NM, MN, PhD.



Our team is making developments, and is achieving good results in the fields of clinical research and nursing practice. For this purpose, we cooperate and collaborate with many medical institutions, such as University Hospital, Prefectural Hospitals, and home-visiting nursing

stations. Our main study subjects include the following: Pain management for high risk neonates, Developmental support systems for infant care in the community, Neonatal nursing standardization, Development of Midwifery continuing education programs, Analysis of clinical nursing ethics, Ethnography of childbearing and childrearing and Narrativebased nursing of high-risk pregnancies(infertility and genetics).

Nursing Care for the Adult Professor Michiko MORIYAMA, RN, MSN, PhD.



Research and Education: In order to improve patients' outcomes, QOL, and self-care level, we collaborate and conduct research studies with hospitals, clinics, and companies in Japan, and the world, in areas of Adult Nursing (Medical/Surgical

Nursing from Acute to Terminal), Chronic Illness Disease Management, oncology nursing and Medical Service Delivery System, based on Outcome Management /Outcome Research methods. We also conduct research and nursing practice studies in the areas of Family Nursing, and Psychooncology.

Health Care for the Adult Professor Tsuyoshi KATAOKA, MD, PhD.



Our laboratory is involved in basic, and clinical studies, mainly using patients in the perioperative period, and cancer patients, as subjects.

Prevention of infection, trauma care, and palliative medicine are also important

issues for our research. Graduate students are encouraged to acquire the latest information, and to carry out original and individual research. We are also carrying out studies in collaboration with other laboratories and researchers in our university, and with clinicians.

Home Care and Community Nursing Professor Mitsu ONO, RN, PHN, PhD.



In Community Nursing, we provide education to people with varying health status in our community, in order to further improve their health status and QOL. The main topics of research are prevention of elderly abuse, family support, home care

management, and home care for the elderly with dementia.

Gerontological Rehabilitation Nursing Professor Toshio KINJO, RN, MN.



The main themes of our research are the development of nursing methods for the living functional disorder at large, which is frequently experienced by the disabled elderly, and is very likely to have a large influence on QOL.

Especially, research focusing on the concrete nursing method, the management/educational method, etc, about urinary incontinence or eating disorders, is performed to achieve development of rehabilitation nursing methodology aimed at improvement in QOL of the disabled elderly.

School and Community Nursing Professor Hiromi KAWASAKI, RN, PHN, PhD.



Our research area is on health education including support to healthy life at school, kindergarten and nursery, and maintenance and promotion of health of the family, as well as liasion between different fields of profession involved with growth and

development of children. We also investigate activities of school nurses at affiliated schools and others. Issues on health education involved with community nursing and assessment of related projects are also pursued from a nursing perspective.



Anatomy and Histology Professor Seiichi KAWAMATA, MD, PhD.



Beautifully elaborated structures of tissues, organs, and bodies reflect sophisticated functions of these constituents. We explore and seek better understanding of structure and function using light and electron microscopy as well as biochemical

methods. The musculoskeletal system, and decubitus (pressure ulcers) are the main fields in our studies. However, people who would like to investigate other tissues and organs are also welcomed to join us.

Subjects of our interest are the processes and mechanisms of muscle injury, regeneration, atrophy, and hypertrophy. Decubitus is energetically investigated using animal models for clinical contribution.

Sports Rehabilitation Research Science Professor Yukio URABE, PT, AT, MA, PhD.



Our research focuses on sport injury prevention, rehabilitation methods, and creating new equipment for sport rehabilitation. For example, ACL injury prevention and rehabilitation method after reconstruction, ankle injury, low back

pain prevention, as well as shoulder injury treatment. We will propose a new strategy for the concept of sport rehabilitation.

Biomechanics

Professor Koichi SHINKODA, RPT, PhD.



We analyze kinetic and kinematic components and properties of every day activities performed by healthy people, and also by people with disabilities. Some activities studied include gait (walking and running) and sit-to-stand movement,

which are the most common of human movements. We use instruments such as 2D and 3D video systems, force platforms, accelerometers, and others, to collect and analyze the motions.

The findings of our research, which is based on biomechanical data analysis, are applied to improve the quality of life of people who have restricted freedom of motion, as well as for rehabilitation, by developing new therapeutic exercises. We are also involved in developing proactive strategies for health promotion, and preventing physical injuries and disabilities stemming from repetitive motion.

Health and Sports Medical Sciences Professor Tsutomu INAMIZU, MD, PhD.



It is known well in our current society that our daily habits, particularly our lack of exercise, are the major cause of health-related problems. Sometimes, if it is not conducted in the proper manner, exercise can itself be of harm to our bodies. Our program is focused on

education and research in the field of sports medicine. Our aspect is particularly focused on exercise prescription from an immunological point of view, in order to retain and advance health, and create better conditioning for non-athletes, as well as athletes.

Musculoskeletal functional research and regeneration laboratory Professor Masataka DEIE, MD, PhD.



We research the musculoskeletal function for daily life.

Specially, we have three themes. One is that we focus on degenerative diseases and dysfunction with aging. Second is that we also focus to recover from dysfunction after trauma and sports injury. Finally, we

study the regeneration of the musculoskeletal organs.

The objectives of our researches are that all people from younger to older would have good quality of life after they would have disability of musculoskeletal function due to aging, injury, and disease.

Bio-Environmental Adaptation Sciences Professor Louis YUGE, PhD, RPT.



Our research focuses on:

1) Nerve, cartilage, bone, muscle, and regeneration medicine methodology, especially stem cell (ES cells and iPS cells) culture in microgravity and physical stimuli, 2) Bio-reaction (cells and tissues)

to physical stimuli, such as microgravity, electrical stimulation, ultrasound, etc., 3) Space flight adaptation syndrome, especially bone and muscle molecular biology, 4) Analyze the central nerve system and human movement using MEG (Magnetoencephalography) and EMG (Electromyography), 5) Development of Neuro-rehabilitation using the movable suit type robot.

The mission of our laboratory is to create and establish useful techniques related to new findings in people with disabilities. To achieve this mission, human-biology-related morphological, molecular, and physiological data are collected and analyzed using newly developed methods.

Integrative Physiology

Professor Kanji MATSUKAWA, PhD.



The human body has complex living systems that are so wonderfully organized and coordinated by the central nervous system. The purpose of this laboratory is to study "the logic of life in humans" and to find out a way to apply "the logic of life" to clinical rehabilitation sciences. The

specific themes that we are currently investigating are:

1. Autonomic control of the cardiovascular adaptation to exercise,

2. Coordination and integration of the autonomic, cardiovascular, and motor systems,

3. Higher brain function responsible for autonomic and cardiovascular regulation,

4. Autonomic innervation of skeletal muscle and its physiological function.

Human Behavior Science of Occupational Therapy Professor Hideki MIYAGUCHI, OTR, MS, PhD.



To do better occupational therapy based on theory and practice, we research how human behavior is related to physical impairment, cognitive impairment, social psychological factors, and the environment. Our research themes are analysis of theory

of occupational behavior, mechanisms of human behavior and development of assessment forms and intervention methodology.

Applied Science of Occupational Therapy Professor Hajime SHIMIZU, OTR/Japan, OTR/L, Mass, MS.



Our course includes the following:

Our main purpose is to examine the many aspects of the therapeutic effects of "Occupation", and to expand clinical findings and scientific knowledge. A diversity of research projects and methods

is advocated. The backgrounds and disciplines of our institute's staff are manifold. Presently, we are investigating activity analysis, therapeutic function of sheltered workshops, and occupational intervention for traumatic brain injury.

Locomotor System Dysfunction Professor Toru SUNAGAWA, MD, PhD.



The main theme of our laboratory is to analyze the relationship between the function of the brain and that of the hand. The hand function is absolutely important for the human as being the human, and we believe that the treatment or stimulation

of the brain has a great role for the treatment of the hand disorders. The ongoing studies in our laboratory are the brainmapping during the sensory or motor stimulation of the hand, the three-dimensional analysis of hand and wrist motion, and so on. One of our goals is the treatment of brain dysfunction by hand therapy, and that of hand dysfunction by direct brain stimulation.

Psychosocial Rehabilitation Professor Hitoshi OKAMURA, MD, PhD.



We aim to establish psychosocial rehabilitation methods for maintaining or improving quality of life (QOL) of subjects. To achieve the objective, we are planning and conducting the following studies:

1. Study on cancer rehabilitation,

2. Study on rehabilitation for elderly people with or without dementia,

3. Study on rehabilitation for patients with mental disability.

Control Science for Body and Life Function Professor Hirohisa YAMAKATSU, OTR, MS.



Our ultimate goal is to establish occupational therapy as a science. We research widely on physical dysfunction. Our main research areas are:

(1) The evaluation and treatment of physical dysfunction in occupational

therapy,

(2) The effects of activities and occupation on clients, and(3) Giving support to clients in activities of daily living.



Location

Overview Map



Access to Kasumi Campus



Kasumi Campus



Contact Address

Graduate School of Health Sciences

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