

50th

ASAHIKAWA MEDICAL UNIVERSITY

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国立大学法人 旭川医科大学 中央玄関

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Message from the President

Asahikawa Medical University is a national university located in Asahikawa City in the Kamikawa Basin, almost in the center of Hokkaido. The Daisetsu Volcanic Group and the Tokachi Volcanic group can be seen to the southeast, and the Kitami Mountains in the north are visible from the campus and they convey a sense of the vastness of Hokkaido. Asahikawa, with a population of 325,000, is not a large city, but it is a beautiful and comfortable place to live. Many visitors to Asahikawa and neighboring towns must be surprised at the quality of the air and water. Our university is located on top of a hill about 15 minutes south of Asahikawa Station, and it is in a good location within 20 minutes of the airport. Although Asahikawa might be considered less attractive due to the nationally famous cold weather during the winter months, living here turns out to be wonderful once encountering the charm of the amazing snowflakes and the diamond dust on particularly cold mornings.

Our university was established in November 1973 as one of the national medical universities created throughout the country under the “One Prefecture, One Medical School” policy to alleviate the shortage of doctors. This year marks the milestone 50th anniversary. The Nursing Course was established in 1996 and will soon celebrate its 30th anniversary. So far, our university has produced a total of 6,302 graduates, 4,743 graduates from the Medical Course and 1,559 graduates from the Nursing Course. They have been active not only in Hokkaido but also throughout Japan and around the world, contributing to the development of medicine, nursing, and medical care. In addition, we have also produced a large number of excellent researchers. Many students in the Graduate School of Medical Science (Ph.D. Courses) and the Graduate School of Nursing Science (Master’s Course) are working day and night on their research.

Our university was established with the expectation of supporting and improving medical care in Hokkaido, and in the eastern and northern parts of Hokkaido in particular. While social conditions surrounding our university have changed dramatically over the past 50 years, our most important mission remains the same: to heal the sick and protect the health of the people in local areas by training excellent doctors and nurses and providing high quality medical care. Obviously, there is a limit to what we can do if we continue to do what we have done in the past. We are now engaged in serious university-wide discussions on how to fulfill our mission. Fortunately, our students and faculty members have traditionally had a school culture that highly values regional medicine. I believe that if we all work together and pool our wisdom, we will surely be able to find unique and cutting-edge solutions. By having been placed at a turning point of the times and been put to the test, our university has once again reached a stage where it literally “knows its destiny.” We are determined to stand at the forefront and continue our efforts to save the local medical community from any crisis that might arise. We look forward to your continued support.



Eighth President
NISHIKAWA Yuji
Since April 1, 2022

Educational Philosophy and Objectives

Undergraduate

Educational Philosophy

To nurture medical care professionals and researchers who have a true sense of compassion and broad academic perspectives, who uphold the dignity of life and have high ethical standards, and who strive to acquire a high level of knowledge and techniques. To educate medical care professionals who contribute to the improvement of health and welfare in the local community. To train medical and nursing students to fulfill a constructive role in the international community through education, research, and health-care activities.

Educational Objectives

To put its educational philosophy in practice, Asahikawa Medical University sets forth the following objectives:

1. To produce health-care professionals with a well-rounded character through the cultivation of cultured minds and morals.
2. To develop students' understanding of the dignity of life and medical ethics, and establish compassion for the disabled and diseased.
3. To have students acquire highly specialized knowledge and balanced medical skills as well as the ability to learn and study throughout their life.
4. To enhance students' ability to communicate openly and effectively for medical collaboration and safety management.
5. To foster a better understanding of the health and welfare in the local community and remote rural areas to meet the needs of residents there.
6. To broaden horizons and boost involvement and commitment for the international community.

Graduate School

Philosophy

1. To contribute, as a medical graduate school, to the comprehensive development of medical science and nursing science through various basic and clinical studies.
2. To advance knowledge through sincere efforts in research, seeking deeply for the truth with a spirit of independence, autonomy, and responsibility.
3. To produce a diverse and balanced educational curriculum that fosters excellent researchers and highly specialized medical individuals with cultured minds, deep compassion and respect for human dignity and rights, and strict medical ethics.
4. The graduate school is open to everyone. Our ethos is to help local communities and cooperate with communities around the world. We will promote medical welfare and foster harmony among societies around the world.

Educational Objectives

Medical Ph.D. Course	To produce medical educators and researchers with creativity, deep compassion and respect for human dignity and rights, and strict medical ethics.
	To produce highly specialized professionals with leading roles in enhancing medical welfare in the local community.
	To produce doctors and nurses who can work in a global environment and share their universal values.
Master's in Nursing Course	To produce nursing educators and researchers with deep compassion and respect for human dignity and rights, research competence, and medical ethics.
	To produce nursing professionals with superior problem-solving abilities and leadership.
	To produce nursing professionals with the ability to contribute to local health care, medicine, and welfare through nursing activities.

Redefined Missions

We redefined our missions after discussion with the Ministry of Education, Culture, Sports, Science and Technology. We looked at our strengths, characteristics, and social roles and took into account objective data concerning levels of research, educational achievement, and university-industry collaboration. Based on the redefined missions, we aim to fulfill our social responsibilities by strengthening our unique characteristics, developing education, research, and medicine, and fostering motivated medical professionals.

Medical Science

- ✓ Based on our founding principles, we aim to actively nurture prospective doctors and researchers capable of contributing to medical and welfare improvement rooted in community medicine, and to promote the admission of students who are strong-willed and determined to devote themselves to community medicine, collaborating with high schools and medical organizations in Hokkaido.
- ✓ We aim to promote unique and distinctive research, develop new medical technology, enhance medical standards, nurture individuals for future generations, making the utmost of research rooted in regional medicine, including telemedicine-related research—an area of research which is of particular importance in Hokkaido, as well as cerebral functional medical engineering research for aging societies.
- ✓ We intend to create innovations from Japan and put theory into practice by strongly promoting the transfer of basic research achievements into clinical practice.
- ✓ We endeavor to contribute to the solution of the problem of the uneven distribution of doctors across Hokkaido by cooperating with the prefecture and seamlessly fostering career formation and producing doctors who will work in Hokkaido.
- ✓ We aim to fulfill a central role in regional medicine serving as a regional cancer care coordination core hospital, a critical care center, a regional perinatal medical center, and a disaster base hospital.

Nursing Science

- ✓ Based on our founding principles, we aspire to nurture prospective nursing professionals that have deep compassion and respect for human dignity and rights and the ability to think and who will contribute to medical and welfare improvements rooted in community medicine. We plan to introduce the Objective Structured Clinical Examination (OSCE) to evaluate their learning performance before they commence nursing practice, and to enhance their academic experience by improving the curriculum and learning environment to meet their desire to learn.
- ✓ We aim to produce highly advanced professionals, including nurses specialized in cancer, capable of dealing with the elderly. We want to foster individuals with strong leadership skills, and to contribute to health care in local areas including the northern and eastern parts of Hokkaido, solving the problem of the lack of nurses by providing support to nurses who have temporarily left their jobs to help them return to work.
- ✓ We want to contribute to the general health of local residents, including the northern and eastern parts of Hokkaido, with its vast geography and severe climate, making the utmost of telenursing-related research, and to contribute to our global society, fostering global-minded medical professionals with experience in training medical personnel in health administration who have knowledge of maternal and child health in developing countries.

Asahikawa Medical University's Fundamental Objectives (Fourth Medium Term)

Based on our founding principles to produce individuals to be involved in regional medicine, Asahikawa Medical University, aiming to further develop education, research, and medicine, to nurture devoted medical professionals, and to contribute to society, has the following basic objectives.

1. To provide education to enhance deep compassion and respect for human dignity and foster basic abilities to help students become medical professionals with global perspectives who have practical abilities as well as having abilities to do research.
2. To cultivate research-mindedness and encourage unique and quality research.
3. To activate local communities through co-creation with stakeholders.
4. To enrich regional medicine, promote advanced medicine, and provide safe and high-level medical care by cooperating with multiple professions.
5. To check and review university governance and establish a stable financial underpinning.



Diploma Policy

School of Medicine (Doctor of Medicine Degree)

The School of Medicine at Asahikawa Medical University grants a Doctor of Medicine degree to those who have completed the academic requirements in the curriculum in accordance with the educational objectives and obtained the following:

Attitudes—A Sense of Ethics and Professionalism

1. A respect for the dignity of life, understanding of medical ethics, and a positive attitude toward medical practices based on a team approach to medicine

Knowledge—Adequate Knowledge about Medical Science and Related Fields and the Ability for Lifelong Learning

1. A broad knowledge of liberal arts and fundamental knowledge of basic, clinical, and social medicine and to be able to explain the necessity of lifelong learning and its methodology for its application to medical practices

Skills—Holistic Medical Skills, Basic Consultation Skills, and Practical Clinical Skills

1. The ability to communicate with patients and their families with deep compassion and respect
2. The ability to help patients maintain and enhance their health appropriately through a thorough understanding of them, and to have the ability to offer clinical care
3. The ability to plan medical treatments for acute / chronic medical problems on the basis of the principles of safe consultations and treatments

Thinking and Judgement—Problem-Solving Abilities, Developmental Consultation Abilities, and Research Abilities

1. An understanding of the significance of research on basic, clinical, and social medicine, and to be able to apply it to actual medical settings, objectively collecting and evaluating scientific information
2. The ability to draw up logically and ethically valid research plans in order to create and spread innovative information

Willingness—Ability to Contribute to Communities in Japan and Throughout the World

1. The ability to understand the necessity and methodology of our contribution to domestic and international communities through medical practices and research, and to understand social needs related to medical treatments

School of Nursing (Bachelor's Degree)

The School of Nursing at Asahikawa Medical University grants a Bachelor of Nursing degree to those who have completed the academic requirements in the curriculum in accordance with the educational objectives and have obtained the following characteristics:

Attitudes—Fulfillment of Social Roles in Nursing Based on Ethics

1. An attitude toward sincere and sensible nursing practices rooted in high ethical standards
2. An attitude toward nursing practices with the awareness of nurses' mission in society

Willingness—Ability to Contribute to Domestic Communities and Communities Around the World

1. The willingness to solve problems through nursing practices and research based on social needs related to medical treatments, health care, and welfare in domestic communities and those around the world
2. The devotion to train themselves continually as nursing professionals

Knowledge—Adequate Knowledge about Nursing Science and Related Fields and the Ability for Lifelong Learning

1. A broad knowledge of liberal arts and specialist knowledge of nursing

Thinking and Judgment—Problem-Solving Ability, Developmental Thinking Ability, and Research Ability

1. The ability to recognize nursing problems from a research perspective and the thinking ability to solve the problems

Nursing and Communication Skills—Evidence-based, Practical, Basic Nursing Skills

1. The skills to conduct evidence-based basic nursing practices and communication skills according to each patient's life stage and health assessment

The Graduate School of Medical Science (Ph.D. Courses: Clinical Research Course and Research Course)

The Graduate School of Medical Science at Asahikawa Medical University grants a Ph.D. degree to those who have completed the academic requirements in the curriculum in accordance with the educational objectives, passed the thesis examinations, and attained the following:

Attitudes—A Sense of Ethics and Professionalism

- Clinical Research Course**
1. A respect for the dignity of life, understanding of medical and research ethics, and the ability to conduct highly advanced medical practices based on a team approach to medicine
 2. A willingness to find and explore problems responsibly
- Research Course**
1. A respect for the dignity of life, understanding of medical and research ethics, the ability to implement basic research with a respectful and ethical spirit, and an attitude toward recognizing and solving problems by themselves and conducting world-class, high quality research, inspiring specialists in related fields

Knowledge—Adequate Knowledge about Medical Science and Related Fields and the Ability for Lifelong Learning

- Clinical Research Course**
1. A specialized knowledge of clinical and social medicine grounded in basic medicine so as to conduct actual medical treatments and research
 2. An understanding of the necessity of lifelong learning and its methodology
- Research Course**
1. A deep and broad knowledge of basic medical research, basic medical knowledge about the relationship between one's own basic medical research and its related fields so as to conduct actual cutting-edge research
 2. An understanding of the necessity of lifelong learning and its methodology

Skills—Holistic Medical Skills, Basic Consultation Skills, Practical Clinical Skills, and Research Conducting Skills

- Clinical Research Course**
1. Compassion, Respect, and Understanding for Patients and their Families and the ability to communicate with them to help them maintain and enhance their health in an appropriate manner, and practical abilities to offer clinical care
 2. The ability to conduct clinical research, highly specialized diagnoses and treatments
- Research Course**
1. An intellectual curiosity originating in a profound compassion and respect for human dignity and rights, and the ability to implement professional and distinctive basic research

Thinking and Judgement—Problem-Solving Ability, Developmental Consultation Ability, and Research Ability

- Clinical Research Course**
1. An understanding of the significance of research on basic, clinical, and social medicine by collecting and objectively evaluating scientific information and applying such information to actual medical settings
 2. The ability to explore unsolved questions in a logical and scientific manner
- Research Course**
1. An understanding of the significance of the research on basic medicine, collecting and objectively evaluating scientific information, and applying such information to one's own research
 2. The ability to pursue unsolved problems with a logical, scientific, and exploratory mind

Willingness—Ability to Contribute to Domestic Communities and Communities Around the world

- Clinical Research Course**
1. An understanding of social needs for medical treatments and to be able to contribute to domestic and international communities through clinical research and professional medical practices
- Research Course**
1. The ability to contribute to the medical and clinical development of domestic communities and those overseas by undertaking basic medical research activities

The Graduate School of Nursing Science at Asahikawa Medical University Medical Related Research Diploma Policy

We aim to foster graduates with:

1. A deep knowledge of nursing and interdisciplinary fields, high ethical standards, a willingness to solve problems, and problem-solving abilities based on expertise knowledge and skills and scientific evidence.
2. Profound compassion and respect for human dignity and rights, and the professional practical ability to support those in need from their perspectives.
3. Logical thinking and the ability to conduct research on nursing phenomena and practical skills in health and medical care and welfare settings.
4. The ability to cooperate and collaborate with interdisciplinary teams contributing to the improvement of health and medical care and welfare by conducting advanced nursing practice and research both domestically and internationally.
5. The willingness to work in a medical team and to improve the quality of nursing care and the highly advanced professional ability to practice evidence-based, analytic and scientific nursing practice.



Curriculum Policy

Medical Course of the School of Medicine (Doctor of Medicine Degree)

The Medical Course of the School of Medicine at Asahikawa Medical University offers a curriculum with four types of programs and encourages their systematic completion: the Basic Liberal Arts Program for a broad understanding of various value systems found in medical fields, the ICM (Introduction to Clinical Medicine) Program for the cultivation of professionalism and acquisition of introductory knowledge and skills across related fields of clinical medicine and the Basic and Clinical Medicine Programs for more advanced practical knowledge and skills. The Medical Course reorganized the Compulsory Elective Courses I and II in the ICM Program, adjusting its curriculum to reflect rapid progress in basic and clinical medicine.

The Medical Course designs the curriculum and makes explicit the above policy. In addition, students are expected to attain the following:

Attitudes—A Sense of Ethics and Professionalism

- ✓ A respect for the dignity of life, understanding of medical ethics, and a positive attitude toward medical practices based on team-approach medicine.
- 1. To help understand ethical principles as medical professionals, Introduction to Medical Science I – IV are included in the ICM Program for the first year for students to enhance their systematic learning.

Knowledge—Adequate Knowledge about Medical Science and Related Fields and the Ability for Lifelong Learning

- ✓ A broad knowledge of liberal arts and basic knowledge of basic, clinical, and social medicine and understanding of the necessity of lifelong learning and its realization in order to apply this knowledge.
- 2. The classes in the Basic Liberal Arts Program, aiming to help acquire a broad knowledge on culture, society, nature, and various value systems, are optional.
- 3. For cultivation of professionalism and acquisition of introductory knowledge and skills across related fields of clinical medicine, the classes in the ICM Program are compulsory.
- 4. In order to be able to develop a self-motivated learning style and enhance active learning and a solid understanding of one's specialized field, in addition to the lecture-style and practice-style Basic Liberal Arts Program and Basic and Clinical Medicine Programs, the seminar-styled Tutorial System in Medicine I –V in the ICM Program is taken systematically beginning in the freshman year.

Skills—Holistic Medical Skills, Basic Consultation Skills, and Practical Clinical Skills

- ✓ A deep compassion and respect for patients and their families and the ability to communicate with them.
- ✓ An understanding of patients that helps them maintain and enhance their health in an appropriate manner, and basic abilities to offer clinical care
- ✓ The ability to plan medical treatments for acute/chronic medical problems on the basis of the principles of consultations and safe treatments.
- 5. Practice in Psychology and Communication, a subject in the Basic Medicine Program to facilitate medical communication based on psychological understanding, is offered in the freshman year.
- 6. In order to help understand medical principles of diagnoses and treatments based on major symptoms, Symptomatology is offered in the first year, and Tutorial System in Medicine III - IV in the ICM Program and Clinical Symptoms and Problems in the Clinical Medicine Program are linked and offered in the senior year.
- 7. In order to help acquire basic diagnostic abilities and clinical reasoning abilities necessary for bedside learning, Introduction to Clinical Clerkship in the Clinical Medicine Program and Tutorial System in Medicine V in the ICM Program that is taught in a team-based learning style are linked and offered in the senior year.
- 8. Bedside learning is offered in the fourth and fifth years by rotating all the clinical subjects, and, in the fifth and sixth years, it is offered in the form of a clinical clerkship as a required subject held on a four-week basis mainly in the basic clinical departments.

Thinking and Judgement—Problem-solving Ability, Developmental Consultation Ability, and Research Ability

- ✓ An understanding of the significance of research in basic, clinical, and social medicine, and to be able to apply it to actual medical settings, objectively collecting and evaluating scientific information
- ✓ The ability to draw up logically and ethically valid research plans in order to spread innovative information.
- 9. The following subjects (the first three in the Basic Liberal Arts Program and latter eight in the Basic Medicine Program) are offered systematically in the first year: Laboratory Course in Basic Biology, Laboratory Course in Medical Physics, Laboratory Course in Basic Chemistry; Laboratory Course in Biochemistry, Laboratory Course in Human Anatomy I and II, Laboratory Course in Physiology, Laboratory Course in Pharmacology, Laboratory Course in Microbiology, Laboratory Course in Parasitology, Practice in Hygiene and Public Health, and Laboratory Course in Forensic Medicine.
- 10. Clinical Epidemiology is included in the Clinical Medicine Program to apply information from clinical science to research, and Medical Research Special Seminar, a seminar in the ICM program, is offered in the fourth year to help enhance the abilities of medical researchers by providing activities in which students apply various types of knowledge acquired to solving real problems.

Willingness—Ability to Contribute to Communities in Japan and Throughout the World

- ✓ The ability to understand the necessity and methodology for the contribution to domestic and global communities through medical practice and research, and an understanding of social needs related to medical treatment.
- 11. In order to help acquire, beginning systematically in the first year, the ability to contribute to local and international communities, the following subjects are included in the ICM Program and the Clinical Medicine Program: Community Medicine: lectures about the problems of regional medicine, especially in regions in Hokkaido, and Medicine for People with Disabilities to learn the medical needs of vulnerable people in the local area.
- 12. In order to help learn how to contribute to the international community through medical research, Medical Research Special Seminar is offered in the fourth year.

Policy on Evaluating Academic Achievement

1. Academic achievement will be evaluated based on examinations, papers, and classroom tasks in lectures. In seminars and practical training, it will be based on comprehensive results of tasks and papers. In Medical Research Special Seminar, achievement will be evaluated based on participation and presentations of research activities. In bedside learning, it will be evaluated based on the criteria of each department, such as rubric evaluation methods and papers.
2. Goal achievement at the time of graduation, competency-based assessments, comprehensive evaluation of knowledge, skills, and attitude will be based on the Evaluation List Corresponding to Competency in the Medical Course.
3. To improve our medical education, we continuously review our curriculum. The procedure is indicated in the Assessment Policy.

Nursing Course of the School of Medicine (Bachelor's Degree)

The Nursing Course of the School of Medicine at Asahikawa Medical University, to meet newly-arising social needs in medical and nursing sciences such as the advent of an aging society and rapid advances in medical care, conducts basic education in nursing science to produce nursing professionals with practical nursing abilities supported by a broad knowledge of liberal arts. The course also offers optional subjects for those who wish to be public health nurses and midwives.

The Nursing Course of the School of Medicine at Asahikawa Medical University offers a curriculum with three types of programs and encourages their systematic completion: General Basic Subjects, Basic Specialized Subjects, and Specialized Subjects. Specialized Subjects consist of three stages: Basics of Nursing Science, Characteristics of Nursing and Nursing Science, and Development and Exploration of Nursing Science. It also offers Community-based Integrated Care I to IV in each academic year and a Community-based Integrated Care Practicum in the third year.

The Nursing Course aims to produce practical nursing individuals with developmental and systematic education combining the teaching methods of lectures, seminars, and practical training.

We, in the Nursing Course, have designed this curriculum which makes explicit the policy above, as well as requiring the following:

Attitudes—Fulfillment of Social Roles in Nursing Based on Ethics

- ✓ A sincere attitude focusing on practical nursing rooted in high ethical standards.
 - ✓ An attitude toward nursing practices with the awareness of nurses' missions in serving their communities.
1. In order to help understand medical ethics required for nursing professionals, Introduction to Nursing Science, Communication Theory, and Theories of Lifespan Development are offered in the first year and Medical Ethics in the second year.
 2. In order to help students prepare for nursing practice as a member of a medical team Early Practical Training I is offered for first year experience in the first year as well as Early Practical Training II in the second year.
 3. In order to help students feel awe and respect for human physiology and to raise a sense of awareness and responsibility as medical professionals, the Applied Physiology Laboratory Course is offered.
 4. In order to help students acquire an appropriate attitude as nursing professionals, Freshman Seminar is offered in the first year, Clinical Training for Nurses throughout the four years and the Comprehensive Nursing Practicum is offered in the fourth year.

Willingness—Ability to Contribute to Communities in Japan and Throughout the World

- ✓ The willingness to solve problems through nursing practices and research based on social needs. related to medical treatments, health care, and welfare in Japan and communities throughout the world
 - ✓ The devotion to train themselves continually as nursing professionals.
5. In order to help students acquire learning skills required in the undergraduate course, Freshman Seminar is offered in the first year for first year experience, improving student motivation.
 6. In order to help students become interested in regional medicine and explore medical needs specific to Hokkaido, Early Exposure I and II are offered in the first and second years, giving students opportunities to practice nursing in neighboring areas and districts.
 7. In order to help students explore and learn how to support those living in their home communities, Community-based Integrated Care I – IV are offered during the four years.
 8. In order to enhance the ability to help local and overseas communities through nursing practices and research, Community Nursing is offered in the first year, English Reading Seminar in the third year and International Health and Disaster Nursing in the fourth year.

Knowledge—Adequate Knowledge about Nursing Science and Related Fields and the Ability for Lifelong Learning

- ✓ A broad knowledge of liberal arts and a specialist knowledge of nursing.
9. Various optional Liberal Arts classes in the category of General Basic Subjects are offered, such as an Introduction to Japanese Sign Language. These classes focus on understanding patients with diverse needs and aim to help students acquire a broad knowledge of society, nature, and various culture and value systems. Required classes include Freshman Seminar and Information Literacy to help students acquire learning skills and form a career vision.
 10. In order to understand human beings not only as biological organisms, but as people who exist within a society, students are required to take classes in Basic Specialized Subjects, which include classes on the human body and mind, which are offered in the first year, and classes on diseases, treatments, and pharmacology are offered in the second year. In order to understand health, medicine, and the welfare of groups of people and communities, Health, Medical, and Welfare System is offered in the third year.
 11. In order to help students acquire a wide range of knowledge on clinical care, fundamental knowledge on nursing science, and a range of subjects on the developmental features of human beings and nursing treatments, we offer in the second and third years Adult Nursing I (Health Condition and Nursing Care), Adult Nursing II (Health Disorder and Nursing Care), Gerontological Nursing I (The Elderly and Nursing Care), Gerontological Nursing II (Life Impairment in Late Life and Nursing Care), Pediatric Nursing, Maternity Nursing, and Psychiatric Nursing. To explore nursing practice in depth, we also offer as compulsory classes Home Care Nursing, Cancer Nursing, and Team Medical Care and Rehabilitation Nursing. For elective classes, we offer Dementia Care, Critical Care Nursing, Cancer Nursing II (Cancer Survivorship), Cancer Nursing III (End of Life Care). These are available in the third and fourth years. In addition, we offer compulsory classes for the public health nurse course and the midwife course, enabling students to learn both basic and advanced knowledge in public health nursing and midwifery during the four years.

Thinking and Judgment – Problem-Solving Ability, Developmental Thinking Ability, and Research Ability

- ✓ The ability to examine nursing questions and problems from a research perspective and the ability to solve these issues.

12. In order to foster critical thinking, Freshman Seminar, in which students acquire learning skills through group work, role play, presentation, etc., is offered in the first year. In the second year, Basic Nursing Skills IV, in which students practice the nursing process based on a problem-solving approach, Physical Assessment for Nursing, in which students learn how to assess patients' health status, and Health Statistics, in which students learn how to deal with medical statistics, are offered. In the third year we offer Epidemiology, in which students understand health phenomena of individuals, groups, and local communities.
13. In order to help acquire basic abilities to apply knowledge gained throughout actual nursing settings, Freshman Seminar is offered in the first year, Nursing Research in the third year, and Advanced Nursing Research in the fourth year.

Skills and Communication – Evidence-based, Practical, Basic Nursing Skills

- ✓ The skills to conduct evidence-based basic nursing practices and communication skills according to each patient's life stage and health assessment.
14. Basic Nursing I, II, III, and IV and Physical Assessment for Nursing are offered in the first and second years so that students can acquire basic nursing skills. Basic Nursing Training I is offered in the first year to help students understand patients' daily lives and nursing in general. Basic Nursing Training II is offered in the second year to provide students with opportunities to practice the nursing process.
 15. Training subjects, such as Advanced Nursing Skills I (Adult Nursing) and II (Psychiatric, Maternity, and Pediatric Nursing) are offered in the third year and Advanced Nursing Skills III (Gerontological and Home Care Nursing) in the fourth year to teach nursing skills integrated with knowledge about nursing science that has been gained though the classes in each field in the second year and to teach practical nursing abilities.
 16. The curriculum is designed for students to take the OSCE test (Objective Structured Clinical Examination) in the third year to ensure their knowledge and skills before participating in Clinical Training for Nurses. It also offers nursing training in specialized areas in the third and fourth years for individual nursing practice, so students understand the characteristics of patients' life stages and their health issues.
 17. Comprehensive Nursing Practicum; the opportunity in which students are involved in training held at night and with multiple patients, is offered in the fourth year to further improve practical nursing abilities.

Policy on Evaluating Academic Achievement

1. Academic achievement will be evaluated based on examinations, papers, and classroom tasks in lectures. In seminars and practical training, it will be based on comprehensive results of tasks and papers. In Nursing Research, the achievement will be evaluated based on participation and presentations of research activities. In Clinical Training for Nurses, it will be evaluated based on the criteria of each department, such as rubric evaluation methods and papers.
2. Goal achievement at the time of graduation, competency-based assessments, comprehensive evaluation of knowledge, skills, and attitude will be based on the Evaluation List Corresponding to Competency in the Nursing Course.
3. To improve our nursing education, we continuously review our curriculum. The procedure is indicated in the Assessment Policy.



The Graduate School of Medical Science (Ph.D. Degree)

The Graduate School of Medical Science at Asahikawa Medical University (Ph.D. degree) offers two courses: the Research Course, in which students aim to conduct cutting-edge research in their specialized fields, and Clinical Research Course, in which students foster their abilities to advance clinical research and tests. In both courses, professors in the same field of research provide individual guidance to students' research. Students are engaged in research activities in a liberal and academic atmosphere, acquiring attitudes, knowledge, skills, thinking and judgment abilities through Advanced Lectures, Advanced Medical Practice, and Advanced Experiment and Practice on a step-by-step basis according to the progress of students' research. By achieving the goal of research and writing up a doctoral dissertation, students will feel a sense of accomplishment and become motivated to continuously contribute to local communities and international societies. At the same time, through participating in a series of two-year lectures beginning in the first year (Advanced Medical Science, Foundation of Medical Science, and Medical Thesis), students can communicate with other researchers in the university and acquire the ability to carry out medical research: essential basic knowledge, broad application knowledge, and a grounding in ethics as researchers. Our comprehensive and systematic education produces individuals ready to take leading roles in supporting future medical science and meeting the needs of societies.

Although students must choose one of the two courses at first, they can switch to the other course as their research is being conducted. If found to be beneficial to their research, they can be advised by other professors at the graduate school and visit other institutes such as graduate schools and research laboratories, domestic or international, to deepen their research. Students can start their research activities at the graduate school in their first year of being a junior resident. By taking online lectures available on the website of the graduate school as well as taking lectures at our university, they can complete some classes based on their research and training schedules. The graduate school makes every effort to foster students' active learning and provide a flexible curriculum.

Academic achievement will be evaluated based on predetermined criteria in general classes, specialized classes, and a doctoral dissertation. The doctoral dissertation will be evaluated in the following procedure; examination by a dissertation committee organized by the board of the graduate school and presentation at a defense.

The Graduate School of Nursing Science (Master's Degree)

The Graduate School of Nursing Science at the Medical Related Research of Asahikawa Medical University offers a systematic curriculum that produces highly advanced medical professionals in nursing who have expertise and knowledge on health, medicine, and welfare, a high sense of ethics, and perspectives from various disciplines, so that they can conduct evidence-based practice and research in order to solve health issues.

The Master's Thesis Course offers general education subjects to help acquire basic knowledge on research, and students will develop abilities to conduct research activities through Advanced Lecture, Advanced Nursing Practice, and Advanced Research.

The Advanced Practice Course offers general education subjects and specialized subjects on cancer nursing and is designed to develop students' highly professional knowledge and practical abilities required for being a certified nurse specialist in cancer nursing and gerontological nursing, developing practical abilities in highly advanced nursing.

Academic achievement will be evaluated based on the diploma policy and the purpose and goal of each class. Evaluation targets, including oral presentations, class discussion, papers, and written tests, may vary depending on individual classes.

In order to submit an outstanding master's thesis written in an evidence-based methodology, students will be provided with appropriate advice and guidance as indicated in a research guidance plan.

The progress of research for the master's thesis and the advanced project will be checked in research plan presentations to be held each year.

Based on thesis evaluation specific criteria, the master's thesis will be evaluated and judged whether it is satisfactory.

Admission Policy

The following is the admission policy based on our educational philosophy and objectives.

Asahikawa Medical University seeks those students who are aptly suited for careers as doctors and nurses, who have an interest in the local community, and who have the motivation and vigor required to recognize and solve problems.

Undergraduate

○ The Students We Seek

I . Propensity for Careers as Doctors and Nurses

- ✓ Respect for all forms of life;
- ✓ The autonomy to act responsibly according to social norms and morals;
- ✓ Respect and consideration for others;
- ✓ The social abilities to build favorable interpersonal relationships between diverse people;
- ✓ The determination to become educated in various fields of scholarship;
- ✓ The ability to continue learning to become well-informed of updated knowledge and skills;
- ✓ Having qualities to practice team-based medicine

II. Interest in Local and Global Communities

- ✓ A deep attachment to their own local communities and residents;
- ✓ The determination to contribute to their local communities and societies as a whole with global perspectives

III. Motivation and Vigor to Recognize and Solve Problems

- ✓ The abilities to recognize problems correctly by logically applying their knowledge and skills from a bird's-eye view and try to solve the problems

○ Qualities New Students Are Expected to Have Acquired

[Interest, Willingness, and Attitude]

Genuine wish to be considerate to others and contribute to society as future doctors and nurses

[Knowledge and Skills]

Basic academic abilities to learn medicine and nursing, problem-identification skills, and abilities to apply knowledge

[Thinking, Judgment, and Expressiveness]

Ability to think logically and make a reasonable judgement necessary to identify and solve problems, and ability to communicate orally and in writing effectively

[Autonomy, Diversity, and Cooperativeness]

Self-analysis ability and qualities to cooperate with others and build favorable relationships, and experience of autonomous activities, such as comprehensive learning periods and extracurricular activities in high school

It is desirable to have acquired the following knowledge and skills in each subject in secondary education:

[Japanese]	Correct comprehension of others and appropriate expression of one's opinions in Japanese to build favorable personal relationships.
[Social Studies]	Knowledge of history, geography, and civics, which help to act in society in a responsible and sensible way.
[Math]	Basic mathematical knowledge and the ability to consider and express everyday phenomena mathematically and to make mathematically grounded judgments.
[Science]	The ability to deeply consider natural science in general and to make scientific judgments about everyday phenomena based on one's own knowledge.
[English]	Correct comprehension of others and appropriate expression of one's opinions in English to build favorable personal relationships both in Japan and around the world.

○ Basic Admission Policy

Below is the table of admission selection methods and evaluation items in each admission type.

Medical Course

	Admission Selection Methods	Evaluation Items				
		Knowledge and Skills	Thinking, Judgement, and Expression	Attitude	Interest, willingness and Cooperativity	Independence, Diversity, and Cooperativity
						Note
February and March Exam	Common Test for University Admissions	○	○			A positive evaluation will be given to applicants with the knowledge, skills, and abilities to think, judge, and express.
	Individual Test	○	○			
	Interview and School Report			○	○	
International Medical Professionals Course	Common Test for University Admissions	○	○			A positive evaluation will be given to applicants with academic ability, a high sense of advancement and ambition, and a strong willingness to contribute to the development of our medicine and medical activities at an international level.
	Essay	○	○			
	Interview and School Report			○	○	
Selective Admission	Common Test for University Admissions	○	○			A positive evaluation will be given to applicants with academic ability and a strong willingness to contribute to medicine and societies in Hokkaido.
	Essay	○	○			
	Interview and School Report			○	○	
Selective Admission by Recommendation	Common Test for University Admissions	○	○			A positive evaluation will be given to applicants with academic ability and a strong willingness to contribute to medicine in the northern and eastern parts of Hokkaido and the northern and central parts of the Sorachi district.
	Essay	○	○			
	Interview and School Report			○	○	
International Students at Private Expense	Individual Test	○	○			Transcript issued by last school and the result of the Examination for Japanese University Admission for International Students by Japan Student Services Organization will be evaluated comprehensively.
	Interview			○	○	
Transfer Examination (in the Second Year)	Individual Test	○	○			Academic achievement in the last university and qualities gained from work experience will be evaluated. For the International Medical Professionals Course, a positive evaluation will be given to applicants with academic ability, a high sense of advancement and ambition, and a strong willingness to contribute to the development of our medicine and medical activities at an international level. For Selective Admissions, a positive evaluation will be given to applicants with an understanding of regional medicine in Hokkaido and strong willingness to contribute to medicine in Hokkaido.
	Interview			○	○	



Nursing

	Admission Selection Methods	Evaluation Items				
		Knowledge and Skills	Thinking, Judgement, and Expression	Attitude	Interest, willingness and Cooperativity	Independence, Diversity, and Cooperativity
						Note
February Exam	Common Test for University Admissions	○	○			A positive evaluation will be given to applicants with the knowledge, skills, and the abilities to think, judge, and express.
	Essay	○	○			
	Interview and School Report			○	○	
March Exam	Common Test for University Admissions	○	○			A positive evaluation will be given to applicants with the knowledge, skills, and the abilities to think, judge, and express.
	Interview and School Report			○	○	
By Recommendation	Interview and School Report	○	○	○	○	A positive evaluation will be given to applicants with abilities and aptitude as well as a strong willingness to learn nursing and a determination to perform practice and guidance in specialized nursing fields in the future.
International Students at Private Expense	Individual Test	○	○			Transcript issued by the last school and the result of the Examination for Japanese University Admission for International Students by Japan Student Services Organization will be evaluated comprehensively.
	Interview			○	○	

Graduate School

Ph.D. Course (Medical Science)

We look for students who have:

1. The intellectual curiosity and intention to do research in biomedical science, social medicine, and clinical medicine;
2. The passion to contribute to society though medical and clinical activities;
3. The desire to perform and share research achievements with the world;
4. The academic grounding and logical thinking required to recognize problems for themselves and conduct research;
5. The linguistic abilities required to gather necessary information, write and present papers;
6. The communicative and cooperative abilities to build mutual trusting relationships with others.

Basic Policy of Admission

In order to screen them from multiple perspectives based on the admission policy above, we evaluate applicants comprehensively. We go through the results of examinations to decide whether they have acquired basic academic knowledge, and judge their performance in an interview to consider their aptitude as medical professionals and researchers, and we review their academic transcript.

Master’s Course (Nursing Science)

1. Those who have keen awareness of problems and a strong sense of ethics that are willing to solve problems in a logical, evidence-based manner;
2. Those who have basic knowledge in professional areas that they would like to be specialized in;
3. Those who have a true sense of compassion and willingness to play leading roles in education, research, and practice in nursing to contribute to the development of health, medicine, and welfare.
4. Those who have abilities to conduct research and solve problems independently and to communicate to contribute across disciplines to health, medicine, and welfare.
5. Those who are willing to play leading roles in nursing practice and perform research as certified nurse specialists.

Basic Policy of Admission

In order to screen them from multiple perspectives based on the admission policy above, we evaluate applicants comprehensively. We review and essay they have written to judge their abilities to understand, think logically, and express clearly. We analyze their performance in an oral examination about their intended specialized areas to consider the level of their inquiring minds and enthusiasm for research, in addition to reviewing their academic transcript.



Asahikawa Medical University 50th Anniversary

Asahikawa Medical University 50th Anniversary Commemorative Project

Renewal of Welfare Facilities

The school cafeteria, used by a number of students, faculty, and staff, has deteriorated significantly in recent years, and we are planning to renovate the welfare facilities, including the school cafeteria, to improve student services. To realize this project, we have established a fund to commemorate the 50th anniversary of the founding of the university.



Rendered Image

Asahikawa Medical University 50th Anniversary Website opened

We have opened Asahikawa Medical University 50th Anniversary Website, which shows the details of 50th Anniversary Trajectory and 50th Anniversary Commemorative Project as well as a message from President Nishikawa and a commemorative conversation between President Nishikawa and Executive Director Sako.



Asahikawa Medical University 50th Anniversary Commemorative Website Now Open ►





Asahikawa Medical University 50 Years of History

1972 ▶ 2023

1973.9

Asahikawa Medical University established as a single-department college

In order to solve the shortage of doctors in Hokkaido and to improve medical care in remote areas.

1973.11

First Entrance Ceremony



1975.9

First University Festival held with the theme From Creation to Imagination



1983.3

First Graduation Ceremony for Graduate School held

1979.4

Graduate School established

1976.5

University Hospital established

1976.11

University Hospital opened

1972.7

Executive Office for establishing Asahikawa Medical University opened



2000.4

Master's Program in Nursing established in the Medicine-Related Graduate Course

2000.10

First Entrance Ceremony held for 2nd-year transfer medical students

1996.4

Nursing Course established

2001

Admissions Office Entrance Examination held for the first time among national universities



1999.3

The Emblem of Asahikawa Medical University adopted

Snow crystals and the Japanese rowan (designated as the Asahikawa City Tree) symbolize Hokkaido and Asahikawa respectively. The characters in the middle of the symbol represent Asahikawa Medical University in the center of Hokkaido.



2015.4

Trial Operation of Emergency Response Vehicles started

Our hospital reached an agreement with one city and nine towns that enables our hospital to send out an emergency response vehicle staffed by doctors and nurses when the fire station in a municipality regards it as medically necessary.

2023.3

Certification of Our Nursing Education in Accordance with Japan Nursing Education Evaluation Criteria set forth by Japan Accreditation Board for Nursing Education

2023.11

Asahikawa Medical University 50th Anniversary Commemorative Event

2022.3

Commemorative Events Ceremony for the 25th Anniversary of the Nursing Course of the School of Medicine at Asahikawa Medical University held

2016

Establishment of Asahikawa Medical University Fund

2011.1

Nanakamado (restaurant in University Hospital) opened

2010.4

Nirinso Center (support center for staff returning to work and staff wanting assistance with child rearing and nursing care) established

2004.4

National University Corporation Asahikawa Medical University started

2009.10

Air Ambulance Assistance Project in Northern Hokkaido

With the introduction of one air ambulance in northern Hokkaido, Asahikawa Medical University contributes to emergency medical services to remove the anxiety of local residents in northern Hokkaido and ensure their medical safety by offering, free of charge, a site with a hanger and heliport which we built at the university, making every possible effort to provide emergency medical care.



2009.12

Nonno (room for sick and convalescent child nursing) established

2014.8

Expansion of Library completed

2012.6

Lawson (a 24-hour operation convenience store) at Asahikawa Medical University Hospital opened

2018

Designated as the Only Cancer Genomic Medicine Liaison Hospital in northern and eastern Hokkaido

2018.12

Japan's First 8K Endoscope introduced

2021

Training of Nurses in Specific Medical Procedures started

We were certified by the Ministry of Health, Labour and Welfare as a designated training institution for the training of nurses in specific medical procedures, and we started the training in October. We as a university hospital will nurture nurses who can offer in-home medical care in the acute phase, contributing to regional medicine and nursing.

2019

Accreditation of the Japan Accreditation Council for Medical Education

Asahikawa Medical University was evaluated and audited by the Japan Accreditation Council for Medical Education (JACME) in order to assure the quality of our educational system. We were certified that we satisfy the global standards for Basic Medical Education.

2019.10

University Hospital Recommended as a Japan International Hospital (JIH)

Our hospital was evaluated as a medical institution with willingness and effort to accept inbound patients.

Certification of Nursing Education in Accordance with Japan Nursing Education Evaluation Criteria set forth by the Japan Accreditation Board for Nursing Education

In 2022, our university underwent an evaluation of our nursing education and was certified as being in conformity with the Japan Nursing Education Evaluation Criteria set forth by the Japan Accreditation Board for Nursing Education. The evaluation highly praised the university's unique approaches such as Community-based Integrated Care and Early Practical Training, as well as the activities of the Nursing Support Center for Career Development, Education, and Research. The Nursing Education Evaluation is an assessment of actual educational activities in the field of nursing, including the curriculum and syllabus, appropriateness of learning outcomes, teaching and learning methods, and faculty teaching skills.



Change of Hospital Director

As of July 1, 2023, Hospital Director FURUKAWA Hiroyuki has been replaced by AZUMA Nobuyoshi. We will continue to make efforts for the development of regional medicine. Please visit our website to see the new hospital director's message.

Establishment of the Research Support System

In April 2023, the Research Strategy Planning Office and the Research Supervisory Office were established. The former is to further promote research activities, and the latter to supervise research activities to ensure that they are conducted properly. The Research Supervisory Office is positioned as an organization that oversees all research-related committees and supervises the research activities of the entire university, and is capable of providing advice and guidance to each committee upon receiving reports on problematic issues from each committee. It also provides direct guidance to researchers, and is responsible for managing new risks associated with the internationalization and openness of research in recent years (conflicts of interest and responsibilities due to undue influence from foreign countries, concerns about technology leaks, etc.) to ensure the soundness and fairness of research.

In addition, the Center for Advanced Research and Education was reorganized into the Research Promotion Office, which consists of the Research Promotion Division and the Intellectual Property Support Division. The former is to enhance the research promotion system and strengthen collaboration, and the latter to enhance the technical support system for our university research activities.

Through the establishment of this research support system, we will strive to further invigorate our research activities.

Appointment of Advisor to the President

On January 1, 2023, Dr. MORI Chisato (Director of the Center for Preventive Medical Sciences at Chiba University, Professor of Environmental Medicine, Graduate School of Medicine, Chiba University, and Director of the Research Institute of Disaster Medicine, Division of Disaster and Environmental Health Sciences, Chiba University) was appointed as an advisor to the president of our university.

Dr. Mori has established a new academic field of environmental biomedicine based on embryology and anatomy, and is conducting large-scale research with an eye toward the health of the next generation. We are confident that he will provide valuable advice on how to improve the research capabilities of our university and contribute to regional medicine.

Open Lecture for Junior High School Students

On Sunday, July 31, 2022, the Pharmacology Department of Asahikawa University held an open laboratory course for junior high school students (supported by “Hirameki☆Tokimeki Science” from the Japan Society for the Promotion of Science). On that day, 14 junior high school students from Asahikawa and other parts of Hokkaido participated in three experiments related to oxygen, the research theme of the Pharmacology Department, and experienced a mock class in a classroom usually used by our students. Two of our medical students also participated as staff members. During lunch time, they shared with the students some interesting episodes regarding what made them decide to be students of our university. The enthusiastic expressions and bright smiles on the faces of the junior high school students were very impressive.

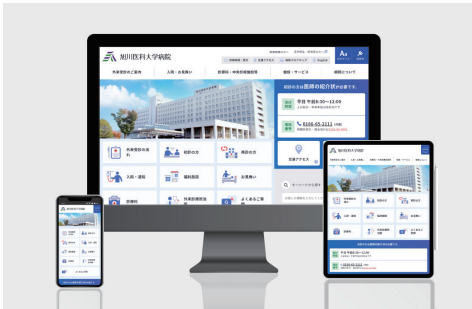


Renewal of University and Hospital Websites

The official websites of Asahikawa Medical University Hospital and Asahikawa Medical University were renewed in April and July 2023, respectively.

In this renewal, the design and menu structure were changed to make the websites more user-friendly. They are now compatible with smartphones and tablets, so they can be viewed anytime regardless of the type of device.

A website commemorating Asahikawa Medical University 50th Anniversary is also available. The website includes information on the history of the university from its opening to the present, the 50th anniversary commemorative projects, and a cross talk between President NISHIKAWA and Director SAKO Kazuhiro.



Other

- Participation in Taisetsu Anshin / Medical Network (since 2014)
- Introduction of Annual Salary Scheme to 10% of the Faculty Members (since 2015)
- Selected as a Base of the Project for Establishing an Open-access-based Center for Sustainable Creation of New Medical Technology for Translational Research Network Program (since 2017)
- Support for Working Cancer Patients by the Cancer Support Center and Public Employment Security Office (since 2017)
- Mentor System (since 2018)
- Introduction of Working Management System and Attendance Management System by Facial Recognition and IC Card (since 2020)
- Commencement of the Training of Nurses in Specific Medical Procedures (Beginning in 2021)

Research Activities Topics

Our university transmits information about research achievements in various fields accomplished by our departments. Below is part of the achievements.

Significant increase in suicide rates in women and younger age group during the COVID-19 pandemic in Japan

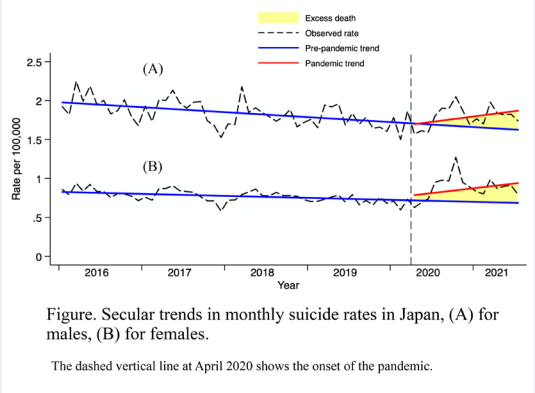
Eiji Yoshioka

Division of Public Health and Epidemiology, Department of Social Medicine, Asahikawa Medical University

The COVID-19 pandemic has severely restricted the daily lives and social activities of people in almost all countries and regions of the world, including Japan, and has significantly impacted people's mental health. This study was conducted to elucidate the impact of the pandemic in Japan, and the results show an increase in suicides during the pandemic compared to before. And it shows that the increase in suicides is particularly pronounced among women and the younger generation. In this study, we calculated an estimate of excess deaths by suicide during the pandemic period (April 2020 to December 2021). The term excess death refers to deaths that might not have occurred if there had not been a pandemic. In other words, the excess death is an estimate of the number of suicides that increased due to the pandemic. Excess deaths were estimated to be 1208 for males of all ages, which meant 5.8% of all suicides during the period. For women, they were 1825, and 15.4%. The number of excess deaths by age group was particularly high for males aged 20-29 (estimated excess deaths=466) and 40-49 (423) and for females aged 30-39 (421), 60-69 (396), and 20-29 (352).

In Japan, since the pandemic outbreak, the government has provided a variety of support to those in need. However, the results of this study suggest that this support may not have been sufficient, especially for younger generations and women.

The research work was published in *the Lancet Regional Health-Western Pacific* on June 1, 2022.



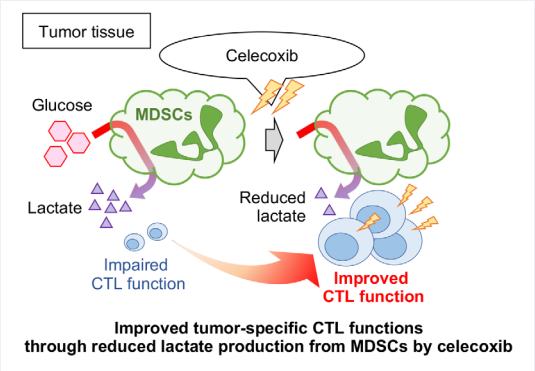
Improved tumor immune microenvironment by an anti-inflammation drug

Takayuki Ohkuri

Development of Pathology

Recent studies have shown that activation of the cGAS-STING pathway is a key process in antitumor immune responses and various kinds of STING agonists have been developed for cancer immunotherapy. Despite promising preclinical studies, preliminary clinical results have shown only a modest effect of STING agonists. There is therefore a need to develop more effective treatment strategies. Based on previous observations that COX-2 is frequently overexpressed not only in a variety of cancers but also in tumor myeloid cells and that it suppresses antitumor immunity and promotes tumor survival by producing PGE₂, we investigated the antitumor effects of combination therapy with a STING agonist cGAMP and the selective COX-2 inhibitor celecoxib in mouse models. Combination treatment with cGAMP and celecoxib inhibited tumor growth compared with either monotherapy, and the combination therapy induced both local and systemic antitumor immunity. cGAMP treatment decreased PD-1 expression on tumor-infiltrating T-cells and enhanced T-cell activation in tumor-draining lymph nodes regardless of the presence of celecoxib. Meanwhile, although celecoxib treatment did not alter the frequency of CD4+CD25+Foxp3+ regulatory T-cells, it enhanced the expression of costimulatory molecules and glycolysis-associated genes in tumor-infiltrating CD11b+Ly6G+ cells. Moreover, we also found that celecoxib decreased lactate efflux and increased the frequency of IFN- γ - and TNF- α -producing CD8+ T-cells in the tumor microenvironment. Taken together, our findings suggest that combined treatment with celecoxib may be an effective strategy to improve the antitumor efficacy of STING agonists.

The research work was published in *the International Journal of Cancer* in December, 2022.



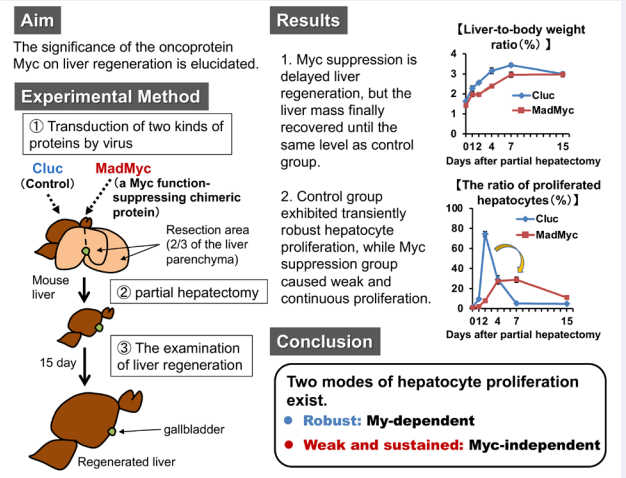
High levels of Myc expression are required for the robust proliferation of hepatocytes, but not for the sustained weak proliferation

Masanori Goto

Pathology Tumor Pathology

In contrast to the robust proliferation exhibited following acute liver injury, hepatocytes exhibit long-lasting proliferative activity in chronic liver injury. The mechanistic differences between these distinct modes of proliferation are unclear. Hepatocytes exhibited robust proliferation that peaked at 2 days following partial hepatectomy in mice, but this proliferation was completely inhibited by hepatocyte-specific expression of MadMyc, a Myc-suppressing chimeric protein. However, Myc suppression induced weak but continuous hepatocyte proliferation, thereby resulting in full restoration of liver mass despite an initial delay. Late-occurring proliferation was accompanied by prolonged suppression of proline dehydrogenase (PRODH) expression, and forced PRODH overexpression inhibited hepatocyte proliferation. In hepatocytes in chronic liver injury, Myc was not activated but PRODH expression was suppressed in regenerating hepatocytes. In liver tumors, PRODH expression was often suppressed, especially in the highly proliferative tumors with distinct Myc expression. Our results indicate that the robust proliferation of hepatocytes following acute liver injury requires high levels Myc expression and that there is a compensatory Myc-independent mode of hepatocyte proliferation with the regulation of proline metabolism, which might be relevant to liver regeneration in chronic injury.

The research work was published in *Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease* in March, 2023.

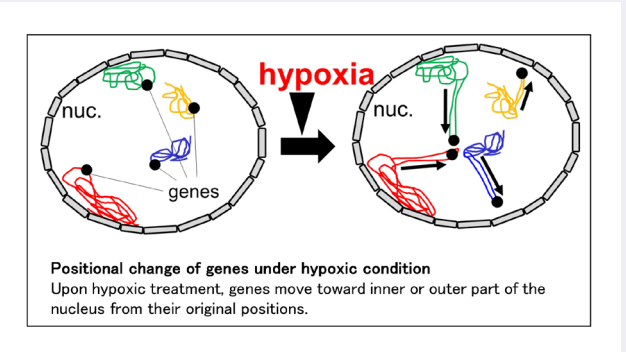


Comprehensive analysis of gene positions in hypoxia -genes are moving under hypoxic condition! -

Koh NAKAYAMA

Department of Pharmacology

Chromosome structure and nuclear organization are important factors in the regulation of gene expression. Transcription of a gene is influenced by local and global chromosome features such as chromatin condensation status. The relationship between the 3D position of a gene in the nucleus and its activity is less clear. Here we used high-throughput imaging to perform a large-scale analysis of the spatial location of nearly 100 hypoxia-responsive genes to determine whether their location and activity state are correlated. Radial distance analysis demonstrated that the majority of Hypoxia-Inducible Factor (HIF)- and CREB-dependent hypoxia-responsive genes are located in the intermediate region of the nucleus, and some of them changed their radial position in hypoxia. Analysis of the relative distances among a subset of HIF target genes revealed that some gene pairs altered their relative location to each other on hypoxic treatment, suggesting higher-order chromatin rearrangements. While these changes in location occurred in response to hypoxic activation of the target genes, they did not correlate with the extent of their activation. These results suggest that induction of the hypoxia-responsive gene expression program is accompanied by spatial alterations of the genome, but that radial and relative gene positions are not directly related to gene activity.



The research work was published in *Molecular Basis of Disease* in April, 2022.

miR-514a promotes neuronal development in human iPSC-derived neurons

Yuichi Akaba, Satoru Takahashi

Department of Pediatrics

Proper development and function of the central nervous system require precise regulation of gene expression. MicroRNAs (miRNAs), a group of small non-coding RNAs that can negatively regulate gene expression at the post-transcriptional level, are critical regulators of neuronal development, and dysregulation of microRNAs has been implicated in various neurological disorders. Changes in microRNA expression and repertoire are related to the emergence of social and behavioral variations in closely related primates, including humans, during evolution. MicroRNA-514a (miR-514a) is an X-linked miRNA that is conserved in species with higher social and cognitive functions, and frequent tandem duplications of miR-514a have been found in primate genomes. Here, we demonstrate that miR-514a plays a crucial role in neuronal development in neurons derived from human induced pluripotent stem cells (iPSCs). Overexpression of miR-514a increased dendritic length, soma size, and activity levels of mammalian target of rapamycin (mTOR) signaling in induced pluripotent stem cell-derived neurons, whereas blocking of endogenous miR-514a inhibited neuronal development. Furthermore, we performed a functional analysis of the miR-514a variation found during primate evolution, to investigate the impact of miR-514a sequence variation and associated changes in expression on brain development during evolution. We found that mutation in miR-514a significantly reduced the expression of the mature form and abolished the effects observed when native miR-514a was expressed. Our findings provide new insights into the functional role of miR-514a in the regulation of neuronal development and evolution of primate brain development.

The research work was published in *Frontiers in Cell and Developmental Biology* in February, 2023.7; 11:1096463. doi: 10.3389/fcell.2023.1096463.

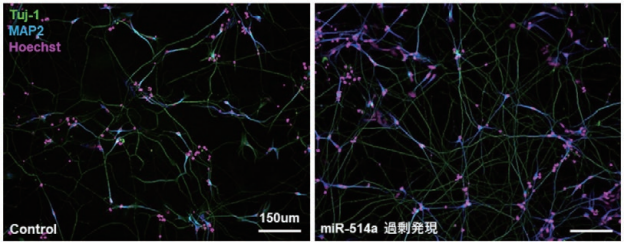
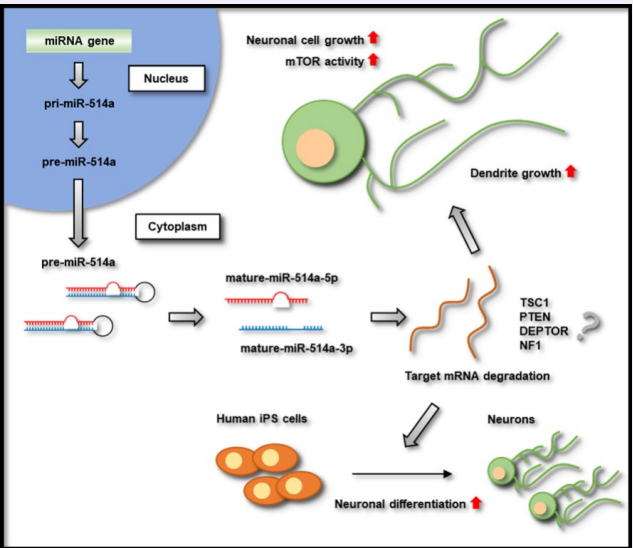


Figure 1. Effect of miR-514a on promoting neuronal development

Overexpression of miR-514a increased neurite length in neurons derived from human induced pluripotent stem cells.



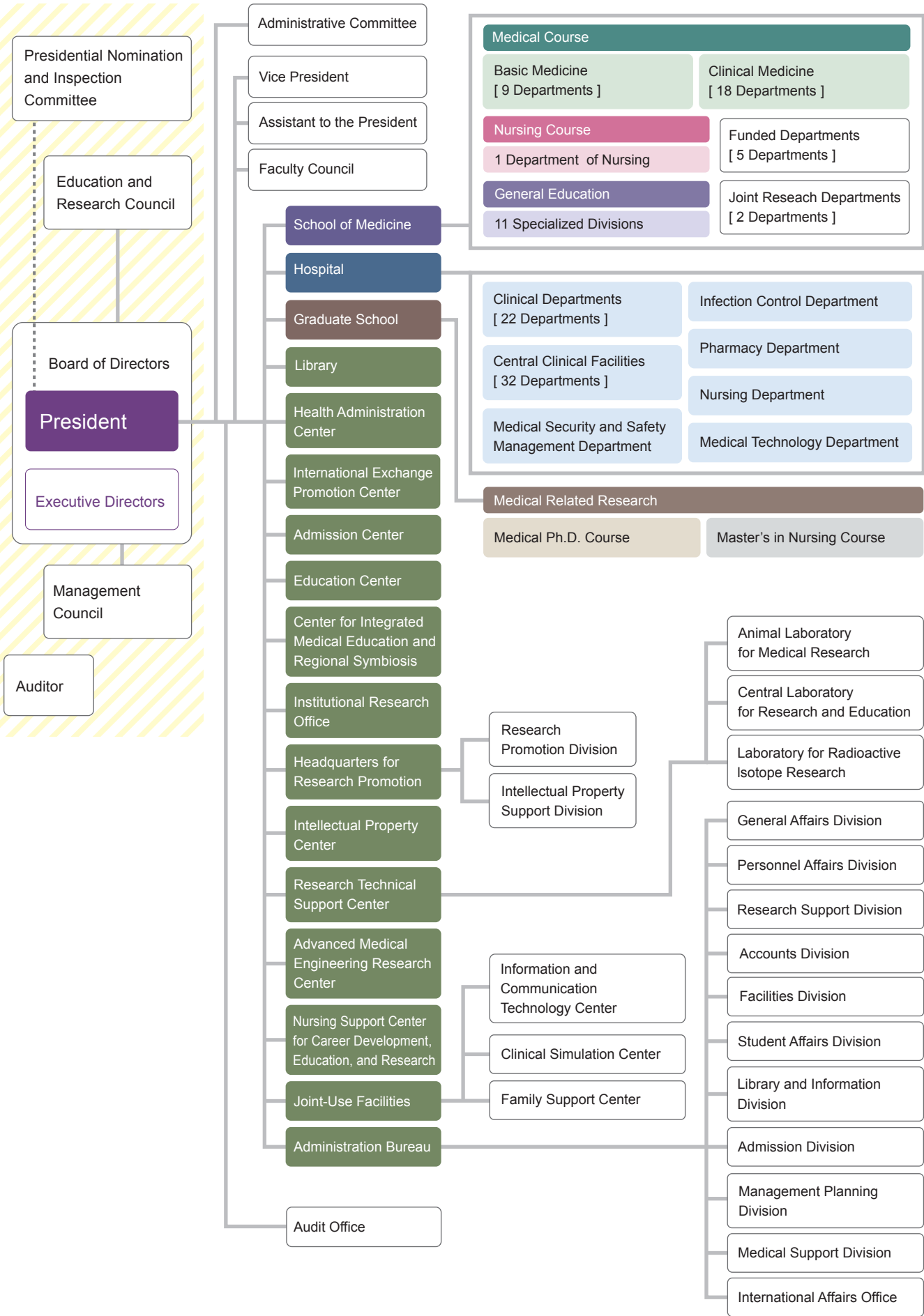
Research Summary Figure



Toward a Vigorous Asahikawa Medical University

Filled with the Joy of Learning and Research, and a Fulfilling Work Environment

Organization Chart



Board and Faculty Members, Successive Presidents

As of July 1, 2023

National University Corporation Asahikawa Medical University

Board Members

President

NISHIKAWA Yuji

Executive Directors

FURUKAWA Hiroyuki
Finance and Doctor's Work-life Reform

OKUMURA Toshikatsu
Education, Personnel and Organization,
and Evaluation

TSUJI Yasuhiro
Social Collaboration

SAKO Kazuhiro
Regional Medicine

Auditors

SUZUKI Yoshiyuki
Administration

OKE Toshimitsu
Finance

Members of the Management Council

NISHIKAWA Yuji
President

FURUKAWA Hiroyuki
Executive Director

OKUMURA Toshikatsu
Executive Director

TSUJI Yasuhiro
Executive Director

NAKAMURA Yasushi
Deputy Mayor of Asahikawa City

HARADA Naohiko
President of Asahikawa Shinkin Bank

HASEBE Naoyuki
Director General of Ebetsu City Hospital

SHIRAI Eriko
NPO Collecting and Preserving Literary Materials in
Asahikawa

TOGIYA Satoshi
Director of Memuro Public Hospital

Members of the Education and Research Council

NISHIKAWA Yuji
President

FURUKAWA Hiroyuki
Executive Director

OKUMURA Toshikatsu
Executive Director

TSUJI Yasuhiro
Executive Director

SAKO Kazuhiro
Executive Director

KAWABE Junichi
Vice President

AZUMA Nobuyoshi
Vice President

FUJIYA Mikihiro
Vice President and Director of Library

OKUMURA Toshikatsu
Head of Medical Course

MASUDA Yumiko
Head of Nursing Course

SAIJO Yasuaki
Professor of Basic Medicine

KAMIYA Hiroyuki
Professor of Clinical Medicine

HASEGAWA Hiroaki
Professor of Nursing Course

HONMA Tatsuya
Professor of General Education

MAKINO Yuichi
Professor of Post-Graduate Clinical Training Center
and Center for Integrated Medical Education
and Regional Symbiosis

YOSHIHARA Hideaki
Secretary General

Asahikawa Medical University

President

NISHIKAWA Yuji

Vice Presidents

FURUKAWA Hiroyuki
Finance and Doctor's Work-life Reform

OKUMURA Toshikatsu
Education, Personnel and Organization,
and Evaluation

KAWABE Junichi
Research and University Admissions

AZUMA Nobuyoshi
Medicine and International Affairs

Heads of Courses

OKUMURA Toshikatsu
Head of Medical Course

MASUDA Yumiko
Head of Nursing Course

OKUMURA Toshikatsu
Head of Ph.D Course (Medical Science)

FUJII Tomoko
Head of Master's Course (Nursing Science)

Assistant to the President

MATSUMOTO Seiji
IR

HONMA Masaru
Public Relations

Advisor to President

MORI Chisato

Faculty and Staff

As of July 1, 2023

School of Medicine

Medical Course

Basic Medicine

Anatomy

Professor
YOSHIDA Shigetaka

Professor
WATANABE Tsuyoshi

Physiology

Professor
IRIBE Gentaro

Professor
TAKAKUSAKI Kaoru

Biochemistry

Professor
KAWABE Junichi

Pharmacology

Professor
NAKAYAMA Koh

Pathology

Professor
TAKAZAWA Akira
Professor
KOBAYASHI Hiroya

Infectious Diseases

Professor
HARA Hideki
Professor
SAKO Yasuhito

Social Medicine

Professor
SAIJO Yasuaki

Legal Medicine

Professor
SHIMIZU Keiko

Advanced Medical Science

Professor
FUNAKOSHI Hiroshi

Clinical Medicine

Internal Medicine

Professor
OKUMURA Toshikatsu

Professor
FUJIYA Mikihiro

Professor
MIZUKAMI Yusuke

Psychiatry and Neurology

Professor
HASHIOKA Sadayuki

Pediatrics

Professor
TAKAHASHI Satoru

Surgery

Professor
AZUMA Nobuyoshi

Professor
KAMIYA Hiroyuki

Professor
YOKOO Hideki

Professor
SUMI Yasuo

Orthopaedic Surgery

Professor
ITO Hiroshi

Dermatology

Professor
YAMAMOTO Akemi

Renal and Urologic Surgery

Professor
KAKIZAKI Hidehiro

Ophthalmology

Otorhinolaryngology–Head and Neck Surgery

Obstetrics and Gynecology

Professor
KATO Yasuhito

Radiology

Professor
OKIZAKI Atsutaka

Anesthesiology and Critical Care Medicine

Professor
MAKINO Hiroshi

Neurosurgery

Professor
KINOSHITA Manabu

Oral and Maxillo-Facial Surgery

Professor
TAKEKAWA Masanori

Emergency Medicine

Professor
OKADA Motoi

Regional Medicine and Education

Professor
NOZU Tsukasa

Clinical Oncology for Local Community Cooperation

Department of Plastic and Reconstructive Surgery

Professor
HAYASHI Toshihiko

Nursing Course

Nursing

Professor
ITO Toshihiro

Professor
OIKAWA Kensuke

Professor
HASEGAWA Hiroaki

Professor
HAMADA Tamami

Professor
FUJII Tomoko

Professor
MASUDA Yumiko

Professor
YAMAUCHI Mayumi

Professor
YAMANE Yukiko

General Education

History and Philosophy

Psychology

Sociology

Mathematics

Mathematical Information Science

Professor
TAKAHASHI Tatsuhisa

Physics

Professor
HONMA Tatsuya

Chemistry

Biology

Life Science

English

Professor
MIYOSHI Nobuhiro

German

Hospital

Director

AZUMA Nobuyoshi

Deputy Director

Outpatient and Hospital Admission and Discharge
FUJIYA Mikihiro

Multidisciplinary Collaboration
OTA Tetsuo

Hospital Management, Medical Equipment
HONMA Masaru

Accident Prevention
MATSUMOTO Seiji

Safety Management, Patient Service, Volunteer
HARAGUCHI Makiko

Assistants to Hospital Director

Education of Healthcare Professionals
TASAKI Yoshikazu

Clinical Training
MAKINO Yuichi

Clinical Ethics
KINOSHITA Manabu

Clinical Department

Internal Medicine I

Internal Medicine (Metabology, Immunology, Gastroenterology, and Hematology)

Head
OKUMURA Toshikatsu

Psychiatry and Neurology

Head
HASHIOKA Sadayuki

Pediatrics

Head
TAKAHASHI Satoru

Surgery (Vascular, Respiratory and Surgical Oncology)

Head
AZUMA Nobuyoshi

Surgery (Cardiovascular)

Head
KAMIYA Hiroyuki

Division of Hepato-Biliary-Pancreatic and Transplant

Head
YOKOO Hideki

Division of Gastrointestinal Surgery

Head
SUMI Yasuo

Orthopaedic Surgery

Head
ITO Hiroshi

Dermatology

Head
YAMAMOTO Akemi

Urology

Head
KAKIZAKI Hidehiro

Ophthalmology

Otolaryngology Head and Neck Surgery

Obstetrics and Gynecology

Head
KATO Yasuhito

Radiology

Head
OKIZAKI Atsutaka

Anesthesiology and Critical Care Medicine

Head
MAKINO Hiroshi

Neurosurgery

Head
KINOSHITA Manabu

Oral and Maxillo-Facial Surgery

Head
TAKEKAWA Masanori

Emergency

Head
OKADA Motoi

Physical Medicine and Rehabilitation

Head
OTA Tetsuo

Pathological Diagnosis

Head
TANINO Mishie

Plastic and Reconstructive Surgery

Head
HAYASHI Toshihiko

Head of Outpatient Services

FUJIYA Mikihiro

Department of Endoscopy

Head
OKUMURA Toshikatsu

Tumor Center

Head
TANABE Hiroki

Department of Palliative Care

Head
MAKINO Hiroshi

Breast Diseases Center

Head
KITADA Masahiro

Central Clinical Facilities

Medical Laboratory and Blood Center

Head
OKUMURA Toshikatsu

Surgical Operation

Head
HAYASHI Tatsuya

Clinical Radiology

Head
OKIZAKI Atsutaka

Appliance Management and Supply Center

Head
OTA Tetsuo

Surgical Pathology

Head
TANINO Mishie

Medical Center of Acute Medicine

Head
OKADA Motoi

Intensive Care Unit

Head
KOKITA Naohiro

General Medicine

Head
NOZU Tsukasa

Center for Maternity and Infant Care

Head
NAGAYA Ken

Management Planning

Head
OKIZAKI Atsutaka

Post-Graduate Clinical Training Center

Head
MAKINO Yuichi

Telemedicine Center

Head
HONMA Masaru

Clinical Research Support Center

Head
MATSUMOTO Seiji

Community Health Care Center

Head
OTA Tetsuo

Physical Medicine and Rehabilitation Department

Head
OTA Tetsuo

Medical Network Office

Head
OTA Tetsuo

Clinical Engineering Office

Head
HAYASHI Tatsuya

Genetic Counselling Office

Head
MAKITA Yoshio

Liver Disorder Consultation and Support Room

Head
SAWADA Koji

Outpatient Chemotherapy Center

Head
TANABE Hiroki

Nutrition Management Department

Head
OKUMURA Toshikatsu

Hospital Admission Center

Head
FUJIYA Mikihiro

Dialysis Center

Head
NAKAGAWA Naoki

Diagnostic Ultrasonics Imaging Center

Head
SAITO Erika

Center for Training Advanced Medical Specialists

Head
SATO Nobuyuki

Center for Complex New Medical Technology Management established

Head
KAMIYA Hiroyuki

Genetic Oncology Department

Head
MIZUKAMI Yusuke

Stroke Center

Head
KINOSHITA Manabu

Medical Security and Safety Management

Head
MATSUMOTO Seiji

Infection Control Department

Head
OKADA Motoi

Pharmacy Department

Head
TASAKI Yoshikazu

Nursing Department

Head
HARAGUCHI Makiko

Medical Technology Department

Head
SOMAN Koji

Library

Director
FUJIYA Mikihiro

Health Administration Center

Director
KAWAMURA Yuichiro

International Exchange Promotion Center

Director
AZUMA Nobuyoshi

Admission Center

Director
SAIJO Yasuaki

Education Center

Director
SATO Nobuyuki

Center for Integrated Medical Education and Regional Symbiosis

Director
MAKINO Yuichi

Institutional Research Office

Director
MATSUMOTO Seiji

Headquarters for Research Promotion

Director
KAWABE Junichi

Intellectual Property Center

Director
FUJIYA Mikihiro

Research Technical Support Center

Director
MATSUMOTO Seiji

Advanced Medical Engineering Research Center

Director
TAKEWA Yoshiaki

Nursing Support Center for Career Development, Education, and Research established

Director
MASUDA Yumiko

Information and Communication Technology Center

Director
TAKEWA Yoshiaki

Clinical Simulation Center

Director
HONMA Masaru

Family Support Center

Director
YAMAMOTO Akemi

Audit Office

Board and Faculty Members, Successive Presidents

Administration Bureau

Secretary General
YOSHIHARA Hideaki
Deputy Director for Planning and Coordination (University Affairs)
SANO Susumu
Head of General Affairs Division
HASEGAWA Kazuhiro
Head of Personnel Affairs Division
SATO Mikiko
Head of Research Support Division
KANAMORI Junji
Head of Accounts Division
ISHIKAWA Hiroshi

Head of Facilities Division
ARAYA Masaki
Specially Appointed Head of Student Affairs Division
MATSUI Satoshi
Head of Libral and Information Division
YAMAZAKI Shinji
Head of Admission Division
KAMIKAWA Osamu
Deputy Director (Hospital Affairs)
NARITA Akio

Head of Management Planning Division
RYOGOKU Takuhisa
Head of Medical Services Support Division
ISHIZAKA Takamitsu
Director of International Affairs Office
SANO Susumu

Number of Board Members

As of May 1, 2023

President	Executive Directors	Auditors	Total
1	4(2)	2(1)	7(3)

*The number in the parentheses indicates the number of part-time members of the board.

Number of University Staff

As of May 1, 2023

		President	Vice President	Academic Staff					Administrative Staff	General Technician	Medical Technician	Nursing Staff	Grand Total
				Professor	Associate Professor	Lecturer	Assistant Professor	Total					
President and Vice President		1	5(3)										6(3)
School of Medicine	Medical and Nursing Education			37	26	26	76	165	4				169
	General Education			3	6	1	4	14					14
Hospital (Number of physicians: 143 Number of residents: 58)				6	9	32	89	136	2	7	179	747	1,071
Centers and Facilities, etc.				5	3	4	8	20	9			1	30
Audit Office									2				2
Administration Bureau	Secretary General								1				1
	Staff								169	1			170
Total		1	5(3)	51	44	63	177	335	187	8	179	748	1,463(3)

* The number in the table includes members of the board, such as president and vice-president. * The number in the parentheses indicates the number of staff who hold a professor's post.

Number of Faculty Members of Funded Departments

As of May 1, 2023

	Professor	Specially Appointed Professor	Specially Appointed Associate Professor	Specially Appointed Lecturer	Specially Appointed Assistant Professor	Grand Total
Artificial Joints		(1)		(1)		(2)
Cardiovascular Regeneration and Innovation			(1)		(1)	(2)
Innovative Head and Neck Cancer Research and Treatment			(1)	(1)		(2)
Community Medicine Management	(1)				1	1(1)
Total	(1)	(1)	(2)	(2)	1(1)	1(7)

* The number in the parentheses indicates the number of full-time faculty members in the Clinical Medicine.

Number of Faculty Members of Joint Research Departments

As of May 1, 2023

	Professor	Specially Appointed Professor	Specially Appointed Associate Professor	Specially Appointed Lecturer	Specially Appointed Assistant Professor	Grand Total
Department of Gastroenterology and Advanced Medical Science		(1)			1	1(1)
Department of Transplantation Technology and Therapeutic Development		1		(1)		1(1)
Total	0	1(1)	0	(1)	1	2(2)

* The number in the parentheses indicates the number of full-time faculty members in the Clinical Medicine.

Successive Presidents	First President	YAMADA Morihide	July 29, 1973 to June 30, 1981
	Second President	KURODA Kazuhide	July 1, 1981 to June 30, 1987
	Third President	SHIMODA Akihisa	July 1, 1987 to June 30, 1991
	Fourth President	SHIMIZU Tetsuya	July 1, 1991 to June 30, 1997
	Fifth President	KUBO Yoshihiko	July 1, 1997 to June 30, 2003
	Sixth President	YACHIKU Sunao	July 1, 2003 to June 30, 2007
	Seventh President	YOSHIDA Akitoshi	July 1, 2007 to March 3, 2022
	Eighth President	NISHIKAWA Yuji	April 1, 2022 -



Departments

School of Medicine

Medical Course
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Graduate School

Medical Related Research	Course	Major	Course	Division
	Ph.D. Course	Medicine	Research Course	Oncology/Hematology, Social/Environmental Medicine, Immunology/Infectious Diseases, Esthematology/Musculoskeletal Medicine, Endocrinology/Metabolism, Neurology/Psychiatry, Cardiology/Pneumology, Gastroenterology, Molecular Physiology/Pharmacology, Reproductive/Developmental/Regenerative Medicine
			Clinical Research Course	Oncology/Hematology, Social/Environmental Medicine, Immunology/Infectious Diseases, Esthematology/Musculoskeletal Medicine, Endocrinology/Metabolism, Neurology/Psychiatry, Cardiology/Pneumology, Gastroenterology, Molecular Physiology/Pharmacology, Reproductive/Developmental/Regenerative Medicine
	Master's Course	Nursing	Master's Thesis Course	Nursing Administration, Basic Nursing Science, Study of Defense Mechanism, Nursing Education, Psychiatric and Mental Health Nursing, Public Health Nursing, Health Education and Promotion, Child-family Nursing, Maternal Nursing and Midwifery, Gerontological Nursing, Adult Nursing, Fundamental Nursing, Home Health Care Nursing
			Advanced Practice Course	Oncology Nursing, Gerontological Nursing

Number of Students, Academic Calendar

Applicants and Entrants

2023	Medical Course			Nursing Course		
	Places	Applicants	Admitted	Places	Applicants	Admitted
Selective Admission	32	128	32			
International Medical Professionals Course	5	15	5			
Selective Admission by Recommendation	Selective Admissions			10	30	10
February Examination	40	266	40	40	93	40
International Students at Private Expense	A few	0	0	A few	0	0
March Examination	8	534	8	10	141	10
Transfer Examination (Selective Admissions)	10(5)	147(28)	3(3)			

2022	Medical Course			Nursing Course		
	Places	Applicants	Admitted	Places	Applicants	Admitted
Selective Admission	32	110	32			
International Medical Professionals Course	5	17	5			
Selective Admission by Recommendation	Selective Admissions			10	36	10
February Examination	40	178	40	40	62	40
International Students at Private Expense	A few	2	0	A few	0	0
March Examination	8	221	8	10	92	10
Transfer Examination (Selective Admissions)	10(5)	140(28)	10(5)			

Number of Students

As of May 1, 2023									
Course	Quota		1st year	2nd year	3rd year	4th year	5th year	6th year	Total
Medical Course	105 (including 10 transfer students in the second year)	Male	52	61	72	57	65	94	401
		Female	47	43	45	33	49	39	256
		Total	99	104	117	90	114	133	657
Nursing Course	60	Male	5	9	2	3			19
		Female	55	51	58	58			222
		Total	60	60	60	61			241

Academic Calendar

■ First Day of the Academic Year	4/1
■ Entrance Ceremony	4/6
First Semester	4/1–9/30
■ Summer Vacation	7/3–9/15
Second Semester	10/1–3/31
■ Foundation Day	11/5
■ Winter Vacation	12/11–1/19
■ White Coat Ceremony	1/11
■ Spring Vacation	2/26–4/6
■ Graduation Ceremony	3/25
■ Last Day of the Academic Year	3/31

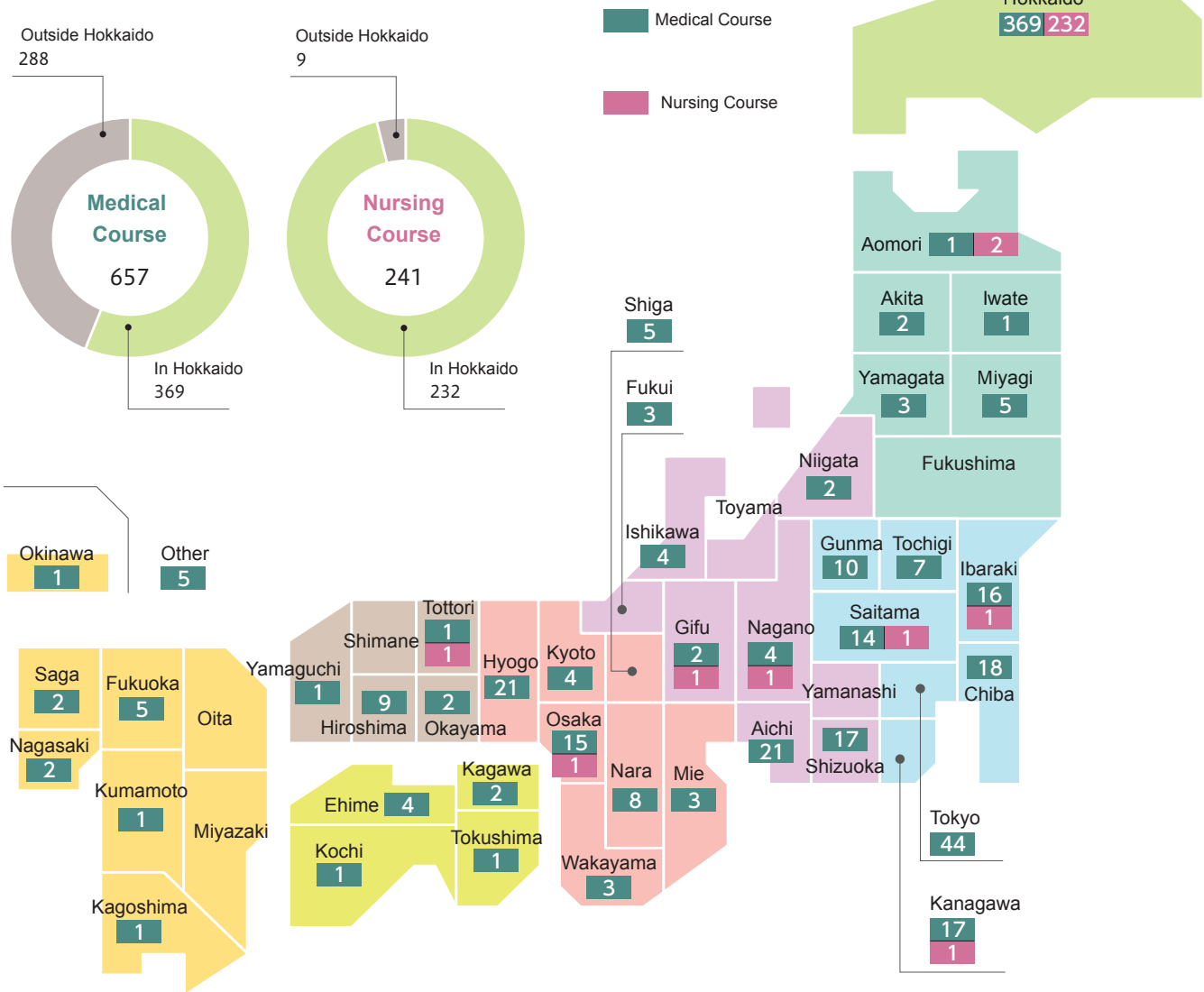


White Coat Ceremony

* The length of summer and winter vacations vary depending on whether students are in the nursing course or medical course, as well as what year the students are enrolled in.

Number of Medical Students by Prefecture

As of April 1, 2023



Number of Scholarship Students

in AY 2022

School	Course	Scholarships offered by AMU	Japan Student Services Organization		Scholarships offered by Local Governments
			Grant-based	Loan-based	
School of Medicine	Medical Course	3	42	184	35
	Nursing Course	72	26	103	—
Graduate School	Medical Ph.D. Course	0	0	0	0
	Master's Course	2	0	0	0

[Scholarships Offered by Asahikawa Medical University]

- ✓ Loan for students in the Medical Course (since April 2011)
- ✓ Loan for students in the Nursing Course (since April 2008)
- ✓ Scholarship for graduate students (since April 2008)

[Scholarships Offered by Local Governments]

- ✓ Hokkaido Medical Practitioner Training and Education Fund
- ✓ Furano City Medical Practitioner Training and Education Fund
- ✓ Fukagawa City Medical Practitioner Training and Education Fund
- ✓ Engaru Town Fund for Medical Practitioner Training and Education at Asahikawa Medical University

[Other Financial Aids Offered by Asahikawa Medical University]

- ✓ Scholarship for Junior Residents (since April 2012)
- ✓ Special Tuition Loan (since April 2011)
- ✓ Loan for Graduates (since April 2011)
- ✓ Grant-in-Aid for Undergraduates' International Activities (since April 2010)
- ✓ Tuition Reduction System

Associated Teaching Hospitals



Asahikawa City Hospital

Number of Clinical Departments 25
Number of Beds 481
Total Number of Clinical Trainees Accepted 40



Asahikawa Red Cross Hospital

Number of Clinical Departments 28
Number of Beds 520
Total Number of Clinical Trainees Accepted 56



Asahikawa Kosei Hospital

Number of Clinical Departments 24
Number of Beds 460
Total Number of Clinical Trainees Accepted 112



National Hospital Organization Asahikawa Medical Center

Number of Clinical Departments 19
Number of Beds 310
Total Number of Clinical Trainees Accepted 0



Asahikawa Keisenkai Hospital

Number of Clinical Departments 5
Number of Beds 399
Total Number of Clinical Trainees Accepted 0

Number of Alumni

		- 2019	2020	2021	2022	Total
Medical Course	Male	3,362	66	70	75	3,573
	Female	1,031	39	53	47	1,170
	Total	4,393	105	123	122	4,743
Nursing Course	Male	94	5	6	6	111
	Female	1,283	55	55	55	1,448
	Total	1,377	60	61	61	1,559
Grand Total		5,770	165	184	183	6,302

Summary of the Results of the National Examination

		2021	2022	2023
Medical Practitioners	Examinees	115	133	134
	Successful	103	121	117
	Success Rate	89.6	91.0	87.3
Health Nurses	Examinees	5	7	10
	Successful	5	7	10
	Success Rate	100.0	100.0	100.0
Midwives	Examinees	4	3	6
	Successful	4	3	6
	Success Rate	100.0	100.0	100.0
Nurses	Examinees	61	61	61
	Successful	61	61	60
	Success Rate	100.0	100.0	98.4

Graduate Students

As of May 1, 2023

Major		M/F	Quota	Capacity	1st year		2nd year		3rd year		4th year		Total
					October Enrollment	April Enrollment	October Enrollment	April Enrollment	October Enrollment	April Enrollment	October Enrollment	April Enrollment	
Medical Ph.D. Course	Medical	Male	15	60	1	9	4	9	4	7	10	12	56
		Female			0	3	1	5	0	3	1	5	18
		Total			1	12	5	14	4	10	11	17	74
Master's Course	Nursing	Male	16	32	1		7						8
		1			16		17						
		2			23		25						

Admission into the Medical Ph.D. Course in October

In 2012, admission into the Medical Ph.D. Course in October was started to promote globalization and diversify learning opportunities for doctors working full time. This admission system is also for international students.

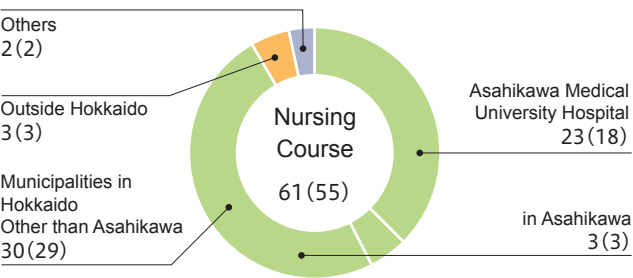
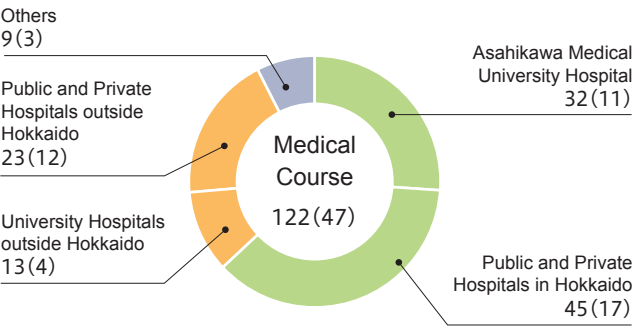
Number of Degrees Conferred

As of May 1, 2023

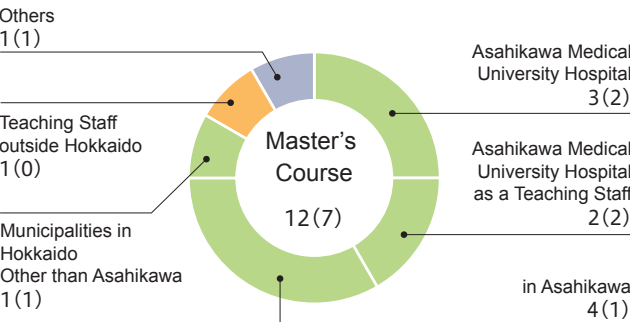
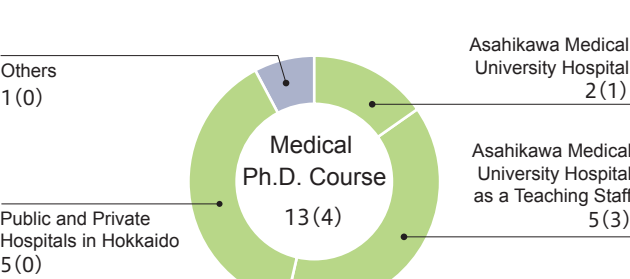
			- 2019	2020	2021	2022	Total
Ph.D. in Medicine	Coursework	Male	462	12	12	9	495
		Female	85	1	5	4	95
		Total	547	13	17	13	590
	Independent Study	Male	445	3	3	5	456
		Female	39	1	1	0	41
		Total	484	4	4	5	497
	Grand Total		1,031	17	21	18	1,087
Master of Nursing		Male	28	2	3	5	38
		Female	187	8	7	7	209
		Total	215	10	10	12	247

Career Path after Graduation

School of Medicine



Graduate School



■ In Hokkaido ■ Outside Hokkaido ■ Others * The number in the parentheses indicates the number of female students.

Research and Specialized Work

Medical Course—Basic Medicine

Departments of Medicine		Fields of Interest
Anatomy	Functional Anatomy and Neuroscience	Neuroanatomy, Neuropathology
	Microscopic Anatomy and Cell Biology	Cell Biology, Experimental Endocrinology, Molecular and Cellular Mechanisms of Secretory Granule Formation
Physiology	Autonomous Function	Cardiac Mechanics, Mechanobiology
	Neural Function	Gait control, Postural control
Biochemistry		Angiogenesis, Neurogenesis, Myogenesis, Regenerative Medicine, Calcium Homeostasis, Regulation of Cellular Function and Vascular Contraction by Protein Phosphorylation
Pharmacology		Tumor Biology, Molecular Pharmacology, Gene Regulation
Pathology	Tumor Pathology	Hepatology, Molecular Pathology, Tumor Pathology
	Immunopathology	Tumor Immunology, Allergology, Immunology
Infectious Diseases	Microbiology and Immunochemistry	Microbiology, Immunology
	Parasitology	Immunobiology, Molecular Biology, and Epidemiology of Echinococcosis and Cysticercosis and Their Immunological and Molecular Diagnosis, Toxoplasmosis, Immunoparasitology, Genetic engineering, Cell Biology, Vector Biology
Social Medicine	Hygiene and Health Science	Hygiene, Environmental Health, Occupational Health, Molecular Preventive Medicine, International health
	Public Health and Epidemiology	Public Health, Epidemiology, Clinical Epidemiology, Environmental Epidemiology, Mental Health, Occupational Epidemiology
Legal Medicine		Forensic Toxicology, Forensic DNA typing and DNA Polymorphism
Advanced Medical Science		Neuroscience, Molecular Biology, Genome Editing, Regenerative Medicine, Translational Research

Medical Course—Clinical Medicine

Departments of Medicine		Fields of Interest
Internal Medicine	Division of Cardiology, Nephrology, Pulmonology and Neurology	Internal Medicine, Cardiology, Pulmonology, Hypertension, Nephrology, Neurology, Geriatrics and Gerontology
	Division of Gastroenterology and Hematology/Oncology	Internal Medicine, Gastroenterology, Gastrointestinal Endoscopy, Hematology, Medical Oncology, Diabetes and Metabolism, Endocrinology, Rheumatology, Hepatology,
Psychiatry		General Psychiatry, Biological Psychiatry, Geriatric Psychiatry, Dementia Medicine, Sleep Medicine, Epileptology, Clinical Electroencephalography
Pediatrics		Pediatric Infectious Diseases and Immunology, Pediatric Endocrinology and Metabolism, Pediatric Neurology, Pediatric Hematology and Oncology, Pediatric Cardiology, Perinatology, Pediatric Nephrology, Epileptology, Pediatric Gastroenterology
Surgery	Division of Vascular, Respiratory and Surgical Oncology	Vascular Surgery, Endovascular Surgery, General Thoracic Surgery, Breast Surgery, Pediatric Surgery
	Division of Cardiovascular Surgery	Cardiac Surgery, Thoracic Aortic Surgery
	Division of Hepato-Biliary-Pancreatic and Transplant Surgery	Gastroenterological Surgery [Hepato-Biliary-Pancreatic Surgery], Endoscopic Surgery, Transplant Surgery, General surgery, Robotic Surgery
	Division of Gastrointestinal Surgery	Gastrointestinal Tract [Esophagus, Stomach, Small Intestine, Colon, Rectum], Endoscopic Surgery, Robotic surgery, General surgery
Orthopaedic Surgery		Joint Surgery, Prosthetic Replacement, Musculoskeletal Tumors, Spinal Surgery, Sports Orthopaedics, Rheumatoid Arthritis, Hand Surgery, Osteoporosis, Regenerative medicine
Dermatology		Dermatology, Psoriasis, Abnormal Keratinization Disorders, Atopic Dermatitis, Dermatological Mycology, Dermatological Oncology, Dermatological Allergology, Dermatological Collagen Diseases, Cosmetic Dermatology, Blistering Disorders, Dermatohistopathology
Renal and Urologic Surgery		Urological Oncology, Cancer Chemotherapy, Pediatric Urology, Female Urology, Benign Prostatic Hyperplasia, Neurogenic Bladder, Urolithiasis, Adrenal Surgery, Endoscopic Surgery, Robotic Surgery

Departments of Medicine	Fields of Interest
Ophthalmology	Ophthalmology, Vitreoretinal Disorders, Corneal Transplantation, Ocular Surface Disorders, Keratorefractive Surgery, Neuroprotection in Retina, Ocular Micro-circulation, Glaucoma, Fundus Imaging Analysis, Low Vision, Strabismus
Otorhinolaryngology–Head and Neck Surgery	Otorhinolaryngology, Head and Neck Surgery, Allergology, Bronchoesophagology, Neuro-Otology, Thyroid Surgery, Temporal Bone Surgery, Phono Surgery
Obstetrics and Gynecology	Perinatal Medicine, Gynecologic Oncology, Reproductive Endocrinology and Infertility, Menopause and Women’s Health
Radiology	Diagnostic Radiology, Radiation Oncology, Nuclear Medicine, Interventional Radiology
Anesthesiology and Critical Care Medicine	Pharmacokinetics of Intravenous Anesthetics, Mechanism and Treatment of the Neuropathic Pain, Perioperative Blood Coagulation, Cardiovascular Anesthesia, Airway Management, Peripheral Nerve Block, Muscle Relaxant
Neurosurgery	Neurosurgery, Neurooncology, Skull Base Surgery, Neurovascular Surgery, Functional Neurosurgery, Neuroendovascular Surgery, Epilepsy Surgery, Pediatric Neurosurgery, Spine Surgery
Oral and Maxillo-Facial Surgery	Oral Oncology, Disease of Oral Mucosa, Dental Implant, Jaw Deformity, Cleft lip and Palate, Oral Infectious Diseases, Ozostomia (Bad Breath), Temporomandibular Joint Diseases, Oral care, Oral Traumatology, Pediatric Oral and Maxillofacial Surgery, Masticatory Dysfunction, Orofacial Pain
Emergency Medicine	Traumatology, Toxicology, Cardio-pulmonary Support, Cardio-pulmonary Resuscitation, Sepsis
Regional Medicine and Education	Regional Medicine, Specialist and Primary Care
Clinical Oncology for Local Community Cooperation	Clinical Oncology, Regional Cancer Care, Cancer Care Network
Plastic and Reconstructive Surgery	Reconstructive Surgery, Surgical Wound Care, Cranio-Maxillofacial Surgery, Skin Cancer

Nursing Course

Departments of Nursing	Fields of Interest
Nursing Science	Human Anatomy and Physiology, Pathology, Health Education Development Science
	Fundamental Nursing, Adult Nursing, Gerontological Nursing, Pediatric Nursing, Maternal Nursing and Midwifery, Psychiatric and Mental Health Nursing, Home Health Care Nursing, Public Health Nursing, Nursing Management, Oncology Nursing

General Education

Departments of General Education	Fields of Interest
Psychology	Experimental Psychology, Cognitive Neuroscience, Clinical Psychology
Sociology	Sociology of Medicine
Mathematics	Analysis, Nonlinear Dispersive PDEs
Mathematical Information Science	Biomedical Engineering, Exercise Physiology, Fractal Physiology, Circulation Physiology, Microcirculation, Cognitive science, Medical Statistics
Physics	Solid State Physics, High Temperature Superconductivity, Low Dimensional Conductors, Quantum Measurement Theory
Chemistry	Physical Chemistry, Nonlinear Dynamics in Nonequilibrium Open System, Soft Matter Science, Wetting Phenomena
Biology	Reproductive Biology, Chromosome Science (Gamete and Embryo), Environmental Mutagen Research
Life Science	Molecular and Cellular Biology of Cell Adhesion and Neuronal Degeneration, Study on Preventing Alzheimer’s Disease
English	Theoretical Linguistics, Applied Linguistics, Teaching English as a Foreign Language

Facility

Facility		Field of Research and Specialized Work
Health Administration Center		Health Care, Adolescent Life Style Disease Prevention, Prevention of Infection, Mental Care
International Exchange Promotion Center		Promotion of International Exchange in Education, Research, Technological Cooperation, etc.
Admission Center		Selection Methods, Education of Medical Science
Education Center		Education for Medical Science and Nursing
Advanced Medical Engineering Research Center		Medical engineering(Artificial Organs, Regenerative Medicine, Tissue Engineering, Development of Medical Equipment)
Integrated Medical Education and Regional Symbiosis		Integrated Regional Medical Education and Support for Regional Medicine
Institutional Research Office		Institutional Research (Educational Management, Research and Social Contribution)
Research Promotion Office		Consultation on Clinical Research Planning and Implementation Systems,Support for Pharmaceutical Applications,Researcher Education and Initial Research Exploration, Intellectual Property-related and Researcher Industry-academia-government Collaboration Support
Intellectual Property Center		Intellectual Property Right
Research Technical Support Center	Animal Laboratory for Medical Research	Experiment, Breeding and Reproduction of Animals, Reproduction Technology
	Central Laboratory for Research and Education	Instrumental Analysis, Biochemistry, Molecular Biology
	Laboratory for Radioactive Isotope Research	Research Using Radioisotopes
Nursing Support Center for Career Development, Education, and Research	Division of Education Program Development	Development of Nursing Education Programs
	Division of Support for Career Development	Support for Lifelong Learning and Career Formation
	Division of Personal Exchange	Promotion of Personal Exchanges Between the Nursing Course and Nursing Department
	Division of Support for Community Health Nursing	Support for Community-based Integrated Care System and Community Health Nursing
Joint-Use Facilities	Information and Communication Technology Center	Information Network, Computer Science
	Family Support Center	Work-Life Balance

Hospital

Division	Field of Research and Specialized Work
Rehabilitation Department	Rehabilitation Medicine, Kinesiology, Computational Neuroscience, Electrophysiology, Physical Medicine, Orthotics
Diagnostic Pathology	Diagnostic Pathology, Oncological Pathology, Tumor Immunology, Molecular Pathology, Cytopathology
Plastic and Reconstructive Surgery	Reconstructive Surgery, Surgical Wound Care, Cranio-Maxillofacial Surgery, Skin Cancer
Department of Endoscopy	Digestive Endoscopy, Respiratory Endoscopy, Therapeutic Endoscopy
Oncology Center	Cancer Chemotherapy, Patient Support, Cancer Information, Training for Medical Professionals
Palliative Care	Palliative Medicine, Philosophy of Medicine, Medical Ethics, Advanced Care Planning
Breast Diseases Center	Breast Diseases, Clinical Oncology, Hereditary Breast Cancer
Medical Laboratory and Blood Center	Clinical Laboratory Medicine, Transfusion Medicine, Infection Control Support, Biological Information Processing, Physiological Tests, Patient Blood Management, Autologous Transfusion
Surgical Operation Department	Operative Medicine, Patient Safety
Clinical Radiology Department	Diagnostic Radiology, Radiation Therapy, Radiation Protection, Medical Physics, Radiological Technology, Nuclear Medicine, Interventional Radiology
Appliance Management and Supply Center	Washing, Disinfection and Supply of Medical Devices, Quality Control of Medical Material

Division	Field of Research and Specialized Work
Diagnostic Pathology Department	Diagnostic Pathology, Oncologic Pathology, Tumor Immunology, Molecular Pathology
Medical Center of Acute Medicine	Emergency Medicine, Cardio-pulmonary Resuscitation, Toxicology, Trauma, Sepsis
Intensive Care Unit Department	Intensive Care Medicine, Circulation and Respiration Control, Blood Purification
General Medicine Department	General Medicine
Center for Maternity and Infant Care	Perinatology, Obstetrics, Neonatology, Perinatal Infectious Diseases, Pediatric Surgery
Management Planning Department	Analysis of Hospital Management, Hospital Information System, Telemedicine, Medical Information Network
Post-graduate Clinical Training Center	Programming and Management of Clinical Training, Instruction and Assistance in Clinical Training
Telemedicine Center	Telemedicine, Transmission System for 3D-HDTV Medical Movies, Health Education by Medical Museum Network System, Cloud-based Medical Practice
Clinical Research Support Center	Supports for Clinical Research, Patient-Proposed Healthcare Services
Rehabilitation Department	Physical Therapy, Occupational Therapy, Speech Language Hearing Therapy, Rehabilitation Medicine, Kinesiology, Biomechanics
Medical Network Office	Reservation for Outpatient Treatment, Discharge Support, Continuous Nursing, Cooperation with Local Medical Institutions and Municipalities and Support for Improvement of Patients' Recuperation
Clinical Engineering Office	Clinical Engineering, Medical Engineering
Genetic Counseling	Genetic Diagnosis, Genetic Counseling, Prenatal Testing, Presymptomatic Testing
Liver Disorder Consultation and Support Room	Advice and Support for Liver Disease
Outpatient Chemotherapy Center	Outpatient Chemotherapy
Nutrition Management Department	Clinical Nutrition, Nutrition Management
Hospital Admission Center	Hospital Admission Management, Patient Support, Bed Control
Dialysis Center	Hemodialysis, Plasma Exchange, Plasma Adsorption
Diagnostic Ultrasonics Imaging Center	Ultrasonics in Medicine
Center for Training Advanced Medical Specialists	Provision of Information for Residents, Coordination with Associated Institutions about Rotations Management of Training, Holding Seminars
Center for Complex New Medical Technology Management	Complex New Medical Technology
Genetic Oncology Department	Comprehensive Cancer Genome Profiling
Stroke Center	Stroke, Neurology, Neurosurgery, Neuroendovascular Therapy
Medical Security and Safety Management Department	Medical Security and Safety, including Incident Report Analysis
Infection Control Department	Infection Control
Pharmacy Department	Clinical Pharmaceutics, Clinical Pharmacology, Neuroscience
Nursing Department	Psychiatric and Mental Health Nursing, Acute Phase Nursing, Chronic Phase Nursing, Nursing Management Nursing Education, Health Promotion



Publications

			2020	2021	2022
Book	Book		4	1	3
	Book in Japanese		69	54	60
Grand Total			73	55	63
Article	Original Article		229	262	246
	Review		9	17	14
	Others		34	35	41
	Total		272	314	301
Article in Japanese	Japan Medical Abstracts Society	Original Article	79	66	65
		Review	4	9	5
		Others	630	632	609
	Total		713	707	679
	DB-Spiral	Original Article	95	57	21
		Review	23	26	14
	Total		118	83	35
Grand Total			1,103	1,104	1,015

* Articles in press included.

Conference Presentation

		2020	2021	2022
International Conference	Oral Presentation (Invited/Special)	2	5	1
	Poster, etc.	90	83	119
	Total	92	88	120
Domestic Conference	Oral Presentation (Invited/Special)	34	51	51
	Poster, etc.	516	640	672
	Total	550	691	723
Grand Total		642	779	843





Asahikawa Medical University Hospital

Asahikawa Medical University Hospital

Hospital Philosophy

Recognizing our mission as a university affiliated hospital, we provide advanced medical care with a strong focus on the human rights and dignity of the sick; we foster health care professionals who will be able to lead the next generation, contribute to community health, and be active internationally.

Objectives

1. To honor human rights and dignity and provide medical care for and develop rapport with the patient.
2. To provide anthropocentric medical care, harmonizing holistic medical care with advanced techniques.
3. To contribute to the betterment of community health and welfare, playing active roles in prevention and health support.
4. To foster medical professionals with strict medical ethics and rich global awareness.
5. To create future medical care and disseminate the results at home and abroad.

Institutional Certified Evaluation and Accreditation

Asahikawa Medical University Hospital is accredited as follows:

Evaluation of Hospital Functions (Japan Council for Quality Health Care)

Asahikawa Medical University Hospital was evaluated by third-party assessors according to prescribed criteria and certified as appropriately serving fundamental functions to provide medical treatments systematically.



Accreditation Baby Friendly Hospital

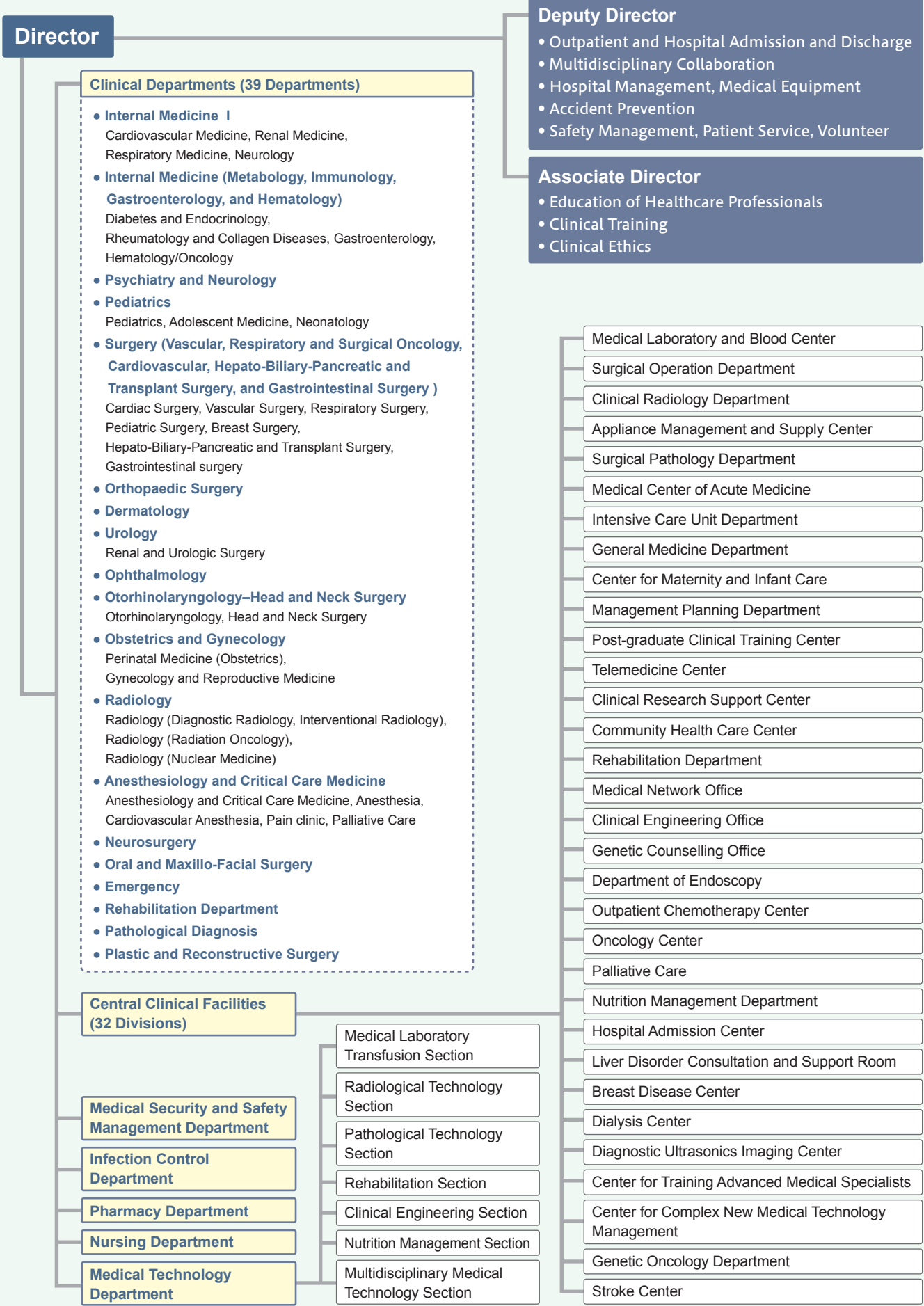
In August 2005, our hospital was accredited as a Baby Friendly Hospital (BFH) implementing The Ten Steps to Successful Breastfeeding (developed by WHO and UNICEF). Its accreditation was the 3rd in Hokkaido and the 1st among national university hospitals in Japan. It was re-accredited in July 2018.



Asahikawa Medical University Hospital Milestones

Milestone	Date
Establishment of Hospital Approved by Medical Care Act	1976
Advanced Treatment Hospital	October 1994
AIDS Treatment Care Hospital	April 1997
Diagnosis Procedure Combination Hospital	June 2003
Disaster Medical Assistance Team Designated Medical Institution	September 2007
Liver Disease Care Liaison Hospital	August 2009
Cooperation Core Hospital for Air Ambulance Project in Northern Hokkaido	October 2009
Medical Center of Acute Medicine	October 2010
Regional Perinatal Medical Center	March 2011
Disaster Base Hospital	November 2011
Baby Friendly Hospital	July 2018
Cancer Genomic Medicine Liaison Hospital	October 2018
Japan International Hospitals	October 2019
Evaluation of Hospital Functions (3rd generation, ver. 2.0)	March 2020
Regional Cancer Care Coordination Core Hospital	March 2021
Designated Training Institution for the Training of Nurses in Specific Medical Procedures	August 2021
Hokkaido Cancer Care Coordination Core Hospital	March 2023
Baby-friendly NICU (Neonatal Intensive Care Unit)	August 2023

Organization Chart



Clinical Activities in 2022

Number of Patients

Classification	Number
Total Number of Outpatients	368,650
Average Number of Outpatients per Day	1,517
Total Number of Inpatients	167,147
Number of Newly Registered Patients	8,244
Number of Newly Registered Patients since the Opening of the Hospital	435,713

* November 1, 1976–March 31, 2023
* Total Number of Beds: 602

Incoming Referral Rate / Outgoing Referral Rate

Incoming Referral Rate	Outgoing Referral Rate
93.6%	85.4%

Patients by District

	Inpatients	Outpatients
Asahikawa	7,540	236,272
Sorachi	803	18,401
Ishikari	73	1,463
Shiribeshi	3	60
Iburi	7	133
Hidaka	12	142
Oshima	2	53
Hiyama	0	7
Kamikawa	3,396	81,434
Rumoi	484	8,883
Soya	641	7,611
Okhotsk	948	12,291
Tokachi	80	849
Kushiro	30	211
Nemuro	9	128
Outside Hokkaido	59	580
Total	14,087	368,518



Statistics of Discharged Patients

Diseases are classified according to the International Classification of Diseases (ICD-10) Stipulated by the World Health Organization (WHO)

Classification by ICD	Number	Rate
I Certain infectious and parasitic diseases (A00-B99)	163	1.16%
II Neoplasms (C00-D48)	5,044	35.85%
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	124	0.88%
IV Endocrine, nutritional and metabolic diseases(E00-E90)	315	2.24%
V Mental and behavioural disorders (F00-F99)	104	0.74%
VI Diseases of the nervous system (G00-G99)	380	2.70%
VII Diseases of the eye and adnexa (H00-H59)	1,093	7.77%
VIII Diseases of the ear and mastoid process (H60-H95)	74	0.53%
IX Diseases of the circulatory system (I00-I99)	1,703	12.11%
X Diseases of the respiratory system (J00-J99)	342	2.43%
XI Diseases of the digestive system (K00-K93)	1,228	8.73%
XII Diseases of the skin and subcutaneous tissue (L00-L99)	199	1.41%
XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	793	5.64%
XIV Diseases of the genitourinary system (N00-N99)	721	5.13%
XV Pregnancy, childbirth and the puerperium (O00-O99)	368	2.62%
XVI Certain conditions originating in the perinatal period (P00-P96)	232	1.65%
XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	286	2.03%
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	18	0.13%
XIX Injury, poisoning and certain other consequences of external causes (S00-T98)	645	4.58%
XX External causes of morbidity and mortality (V00-Y98)	0	0.00%
XXI Factors influencing health status and contact with health services (Z00-Z99)	14	0.10%
XXII Codes for special purposes (U00-U89)	222	1.58%
Total	14,068	100%

International Classification of Diseases (ICD) :
International Statistical Classification of Diseases and Related Health Problems

Number of Emergency Patients

Departments	First Visit	Return Visit	Total
Internal Medicine I	50	267	317
Internal Medicine (Metabology, Immunology, Gastroenterology, and Hematology)	47	340	387
Psychiatry and Neurology	3	28	31
Pediatrics	39	251	290
Surgery (Vascular, Respiratory and Surgical Oncology)	26	68	94
Surgery (Cardiovascular)	42	68	110
Surgery (Hepato-Biliary-Pancreatic and Transplant Surgery)	7	19	26
Surgery (Gastrointestinal Surgery)	13	80	93
Orthopaedic Surgery	74	138	212
Dermatology	31	113	144
Urology	32	103	135
Ophthalmology	30	78	108
Otorhinolaryngology – Head and Neck Surgery	104	119	223
Obstetrics and Gynecology	39	287	326
Radiology	0	0	0
Anesthesiology and Critical Care Medicine	9	1	1
Neurosurgery	82	183	265
Oral and Maxillo-Facial Surgery	11	79	90
Emergency	586	1,605	2,191
Plastic and Reconstructive Surgery	2	15	17
Total	1,218	3,842	5,060

* The data for the Division of Hepato-Biliary-Pancreatic and Transplant Surgery were uncategorized in the hospital management system so the cells were left blank.

Number of Clinical Examinations

	Inpatients	Outpatients	Total
General Examination	34,733	126,364	161,097
Hematology	145,269	213,010	358,279
Clinical Chemistry	941,762	1,923,132	2,864,894
Serology	113,202	251,186	364,388
Endocrinology	19,597	64,558	84,155
Bacteriology	11,277	4,689	15,966
Pathology	1,675	3,931	5,606
Physiology	81,599	79,323	160,922
Other Lab Tests	530	176	706
Blood Sampling and Testing, Liquid Sampling and Testing	1,795	77,052	78,847
Endoscopy	655	4,089	4,744
Classification code not included in the list	4	3	7
Department-specific Examinations	0	0	0
Total	1,352,098	2,747,513	4,099,611

Intensive Care Unit: Number of Patients by Clinical Department

Department	Number
Cardiovascular Medicine	62
Renal Medicine	0
Respiratory Medicine	6
Neurology	0
Diabetes and Endocrinology	2
Rheumatology and Collagen Diseases	3
Gastroenterology	2
Hematology/Oncology	1
Pediatrics, Adolescent Medicine	3
Neonatology	0
Cardiac Surgery	224
Vascular Surgery	64
Respiratory Surgery	1
Pediatric Surgery	3
Breast Surgery	1
Hepato-Biliary-Pancreatic and Transplant Surgery	132
Gastrointestinal surgery	77
Orthopaedic Surgery	12
Dermatology	0
Renal and Urologic Surgery	14
Ophthalmology	0
Otorhinolaryngology–Head and Neck Surgery	8
Perinatal Medicine (Obstetrics)	3
Gynecology and Reproductive Medicine	2
Radiology (Diagnostic Radiology, Interventional Radiology), (Radiation Oncology), (Nuclear Medicine)	0
Anesthesiology and Critical Care Medicine, Anesthesia, Cardiovascular Anesthesia, Pain clinic, Palliative Care	0
Neurosurgery	145
Oral and Maxillo-Facial Surgery	3
Emergency	59
Rehabilitation Department	0
Pathological Diagnosis	0
Plastic and Reconstructive Surgery	7
Total	834

Pathological Dissection

	Number
Mortality	387
Pathological Dissection	11
Dissecting Rate	3 %
Stillborn Dissection	1
Entrusted Dissection	0

Pathological Examinations

	In-hospital	Entrusted	Total
Histopathological Examination	7,006	179	7,185
Cytological Examination	4,750	0	4,750
Intraoperative Pathology	430	0	430
Telepathology	0	11	11
Total	12,186	190	12,376

Number of Radiographic Examinations

	Radiography	Radioscopy	Computed Tomography	Angiography
Inpatients	40,682	2,209	7,727	1,342
Outpatients	46,778	1,214	21,251	385
Total	87,460	3,423	28,978	1,727

Number of Radiation Therapies

	Radiotherapy	Radiotherapy Planning	Nuclear Medicine	Magnetic Resonance Imaging
Inpatients	3,676	337	852	2,388
Outpatients	5,323	315	3,070	7,028
Total	8,999	652	3,922	9,416

Number of Anesthetizations

Points	Number
0～999	3,611
1,000～	6,770
Total	10,381
Nerve Block	375

Number of Deliveries

	Mature Babies	Premature Babies	Total
Normal	119	15	134
Dystocia	117	53	170
Total	236	68	304

Number of Operations

Points	Number
0～999	1,563
1,000～2,999	1,714
3,000～4,999	1,156
5,000～9,999	1,517
10,000～14,999	1,991
15,000～19,999	785
20,000～	4,804
Total	13,530
By the surgical operation department	7,315

* The number includes the operations for outpatients.

Department of Rehabilitation

	Number
Physical Therapy	45,832
Occupational Therapy	13,918
Speech Therapy	9,277
Total	69,027
Number of Patients	5,971

Number of Prescriptions

	Forms
Hospitalization Prescription	111,242
Internal Prescription for Outpatients	8,498
Total	119,740
External Prescription Rate	95.7 %

Blood and Blood Components Used

Blood and Blood Components	Units	Number of Blood Bags
Red Blood Cell Component	12,094	6,085
Blood Plasma Component	8,182	3,656
Platelet Component	25,485	1,581
Autologous Blood	450	244
Total	46,211	11,566

In-Hospital Preparations

	Items	Number
Oral Liquids	3	11
Oral Powders	4	2
Tablets and Capsules	0	0
Injections	6	16
Ophthalmic Drugs	12	38
Ear and Nasal Drops, Inhalation Drugs	1	3
External Liquids	10	88
External Powders	0	0
Ointments and Creams	11	136
Suppositories	1	1
Antiseptic Liquid, Disinfecting, and Preserving Agents	2	13
Laboratory and Diagnostic Agents	7	63
Others	1	0
Pre-compounded Medications	5	21

Medication Counselling

	Number
Inpatients	10,203
Discharges	209
Medication Reconciliation	13,343

Number of Analyses of Blood Drug Concentration

Number	804
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Telemedicine Center

Reducing Urban-Rural Medical Gaps

In order to reduce and eventually resolve problems in underpopulated areas and urban-rural medical service discrepancies, we connect with hospitals in rural areas through the telemedicine network and we have established medical systems to provide patients everywhere with advanced medical treatment.

Activities in Telemedicine

As of May 1, 2023

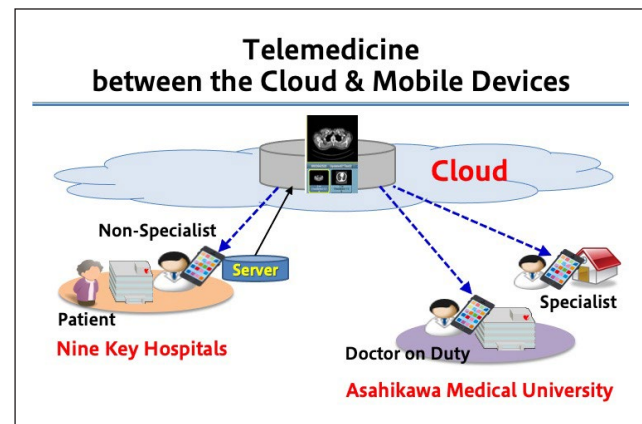
Classification	2020	2021	2022
General Medical Examination Support	276	158	144
Radiograph Image Diagnosis	4,917	5,422	5,587
Pathological Image Diagnosis	19	19	11
Total	5,212	5,599	5,742

Project to Support Collaborative Emergency Medicine Using the Cloud

Since October 2016, we have been conducting a project to support collaborative emergency medicine using the cloud, collaborating with 9 hospitals in Hokkaido. We are conducting a project to support collaborative emergency medicine using the cloud. In this project, our medical specialists use their smartphones and tablets, look at patient information sent to the cloud on the internet, offer advice on diagnoses and treatment plans, and judge whether ambulance transportation to our hospital is necessary. This has made it possible to provide quicker treatments for patients suffering from heart diseases.

Hokkaido Medical Museum

Hokkaido Medical Museum makes use of the web conference system and provides people in venues in Asahikawa and several other cities in Hokkaido with information about health maintenance and up-to-date medicine presented by doctors and nurses in Asahikawa Medical University. The presentation and discussion with the MC in the broadcast studio in the Telemedicine Center is transmitted live to the venues, and participants can directly ask questions by means of the web conference system. The videos in the past are distributed on demand on Open Internet College, a website run by the Telemedicine Center.



Health Administration Center

Consultations with Doctors and Public Health Nurses

in AY 2022

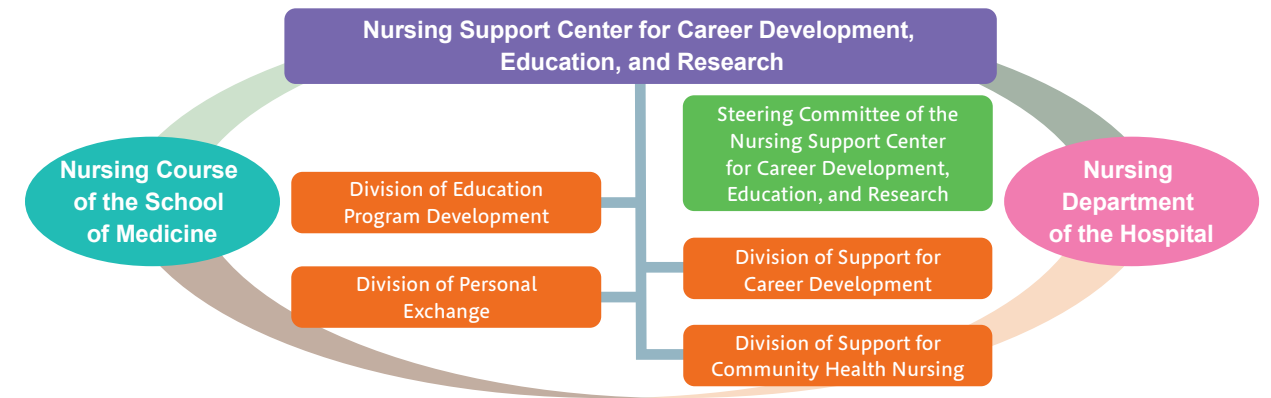
Month	Consultations			Emergency Treatments	Medical Examinations	Others
	Physical	Mental	Total			
Apr.	603	3	606	11	0	314
May.	549	7	556	12	0	333
June	396	4	400	27	0	169
July	292	13	305	5	2	164
Aug.	421	1	422	10	5	280
Sep.	265	7	272	16	1	161
Oct.	473	5	478	15	7	310
Nov.	676	29	705	34	2	451
Dec.	268	13	281	18	2	168
Jan.	352	45	397	19	2	220
Feb.	246	14	260	17	6	87
Mar.	126	5	131	4	0	38
Total	4,667	146	4,813	188	27	2,695



Health Lecture

Nursing Support Center for Career Development, Education, and Research

The Nursing Support Center for Career Development, Education, and Research supports careers and the education of nursing students, nurses working both in our hospital and in other hospitals, and faculty members, cooperating and collaborating cross-organizationally with health, medical, and welfare institutions in local communities, so that they can keep learning to improve their careers and they can change their places of work without a career break.



Training, Lectures, and Seminars Held in AY 2022

	Number of Events	Total Number of Participants
For Faculty Members	6	109
Only for Students in the Nursing Department	2	43
For Faculty Members and Nurses Working in Other Hospitals	8	Faculty Members:155 , Nurses:79
Total	16	386

Consultations of Nursing Research and Career in AY 2022

Number of Consultations	16
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Online Consortium Seminar with a Home-visiting Nursing Care Office



HyFlex Training for Nursing Practice Instructors

The Center for Training Advanced Medical Specialists

The Center for Training Advanced Medical Specialists was established in 2017 in response to the new board certificate system that started in April 2018. The Center provides information to doctors wishing to be medical specialists, coordinates with associated institutions, manages training, and holds seminars. The Center also accepts consultation about the new board certificate system. It will offer seamless support, collaborating with the Admission Center, the Post-Graduate Clinical Training Center, and the Center for Integrated Medical Education and Regional Symbiosis.

Library

As of March 31, 2023

Asahikawa Medical University Library provides an array of services to users so that they feel more familiar with the library. We hold various, diverse events such as the displaying books on a theme, small-scale lectures by our university staff, and information sessions about databases available in the library.

We also offer library tours and publish our information bulletin, Library News. We support users' learning and research by holding mini lectures and guidance according to their needs and provide education on how to search for books and journals, which is indispensable to learn medicine and nursing.

Library Holdings

Books				
		Japanese	Foreign	Total
General Education		29,691	6,855	36,546
Medical Education	Basic Medicine	9,713	24,250	33,963
	Clinical Medicine	48,371	36,219	84,590
	Nursing	9,057	303	9,360
Total		96,832	67,627	164,459

Journals	
	Total
Japanese	2,567
Foreign	1,729
Electric Copy	3,574

Audiovisual Material						
CD	CD-ROM	DVD	LD	Videotape	Others	Total
224	72	1,406	72	1,337	244	3,355



Library

Research Promotion Office

The purpose of the Research Promotion Office is to promote our university's research activities in a quick and efficient manner and consists of two divisions, the Research Promotion Division and the Intellectual Property Support Division, which are headed by the Clinical Research Support Center and the Intellectual Property Center, respectively. The main task of the Office is to support researchers by focusing on the promotion of clinical research and translational research, which require special knowledge and experience, as well as cooperation with related parties. Specifically, the Office will provide support for the formulation of clinical research plans, consultation on implementation systems, and support for pharmaceutical applications. The Office will also educate researchers, identify potentially fruitful research, and provide support for intellectual property and industry-academia-government collaboration.

Research Technical Support Center

The Research Technical Support Center was established to serve as the central department for basic research activities at the University and to enhance the technical support system for research activities. It consists of three technical support divisions: the Technical Support Division for Laboratory Equipment, the Technical Support Division for Animal Experimentation, and the Technical Support Division for Radioisotopes. Each technical support division provides support for a wide variety of research activities, including researcher education, research techniques, and management of research equipment and supplies. The Research Technical Support Center looks forward to researchers' active use of our technical support services.



Animal Laboratory for Medical Research

Joint-Use Facilities

Information and Communication Technology Center

The internet enables us to not only stay connected with the world and collect up-to-date academic information but also convey information about our university to the world. Asahikawa Medical University Campus Information Network (AMEC-Net) is composed of the four subsystems (medical and nursing research subsystem, information processing education subsystem, library information subsystem, and network administration subsystem). The information and communication technology center serves to provide undergraduates with information literacy education, support students and faculty searching for academic information, and convey the information about our university worldwide.

Clinical Simulation Center

The Clinical Simulation Center aims to help students to attain the following:

1. To learn basic clinical skills during preliminary training in pre-medical education and during clinical training – for undergraduates
2. To learn general clinical skills in post-graduate clinical training – for interns
3. To acquire advanced clinical skills and maintain continuing professional development – for doctors, nurses and co-medicals
4. To develop new teaching materials

Summary of Clinical Simulation Center in 2022

	Actual Use (hours)	Number of Users
Computer Assisted Laboratory	674	1,626
Clinical Skills Laboratory for Diagnosis of Sense Organs	348	482
Basic Clinical Skills Laboratory	789	1,175
Clinical Skills Laboratory for the Heart–Lung Function and Emergency Medicine	1,296	1,559
Hand-washing Laboratory	460	694
Teaching-materials Creation Room	259	232

Support Center for Staff Returning to Work, Staff Wanting Assistance with Child Rearing, and Nursing Care (Nirinso Center)

Working Environment Friendly to Parenting Doctors and Nurses

Nirinso Center is the support center to help our staff keep their work-life balance in a good shape by making the working environment better. It helps staff returning to work after maternity leave, child-care leave, and nursing-care leave.

It is composed of the four components (back to work support training, carrier support, child-care and nursing-care support, and sick and convalescent child nursing). The center also provides services such as educational programs, various kinds of seminars and lectures.



Room for sick and convalescent children, Nonno

Regional and International Contributions

Recently Concluded Agreements with Hospitals, Universities, and Cities

Partner	Basic Agreement	Concluded Date
National Universities in Hokkaido	Exchanging Credits	February, 2014
National Universities in Hokkaido	Educating International Students Prior to Admission	February, 2014
Furano City and Furano Association Association Hospital	Affiliation Agreement	March, 2014
Fukagawa City Hospital	Affiliation Agreement	April, 2015
Engaru-Kosei General Hospital and Engaru Town	Affiliation Agreement	January, 2016
Asahikawa City	Affiliation Agreement	June, 2014
The Tokyo Organizing Committee of the Olympic and Paralympic Games	Affiliation Agreement	June, 2014
Asahikawa City Hospital	Affiliation Agreement	December, 2016
Ashibetsu City	Affiliation Agreement	February, 2018

JICA Lectures on Hygiene Administration for Officers in Charge of Regional Medicine in Africa

Period	Number of Countries (Number of Participants)	Countries
July 21, 2022 – August 31, 2022 (Online)	9 (12)	Ethiopia, Kenya, Liberia, Malawi, Cote d'Ivoire, Djibouti, Rwanda, Senegal, Sierra Leone



International Exchange

International Students

As of May 1, 2023

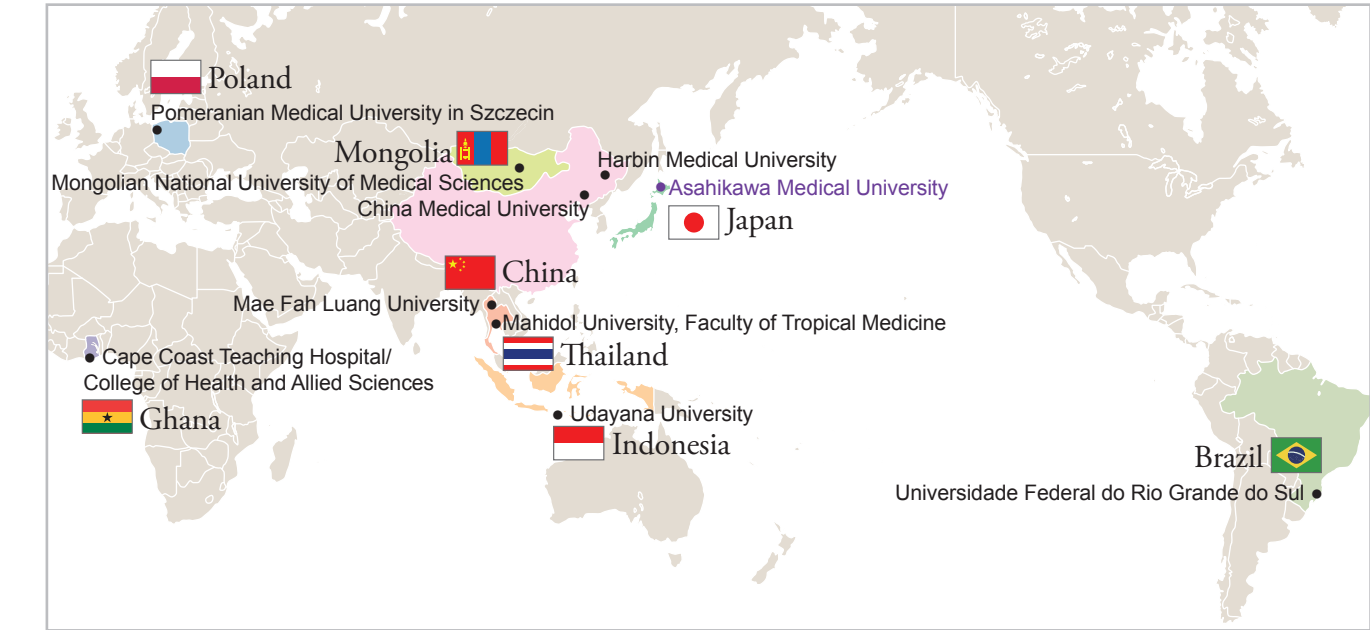
Country	Graduate School		Total
	National Fund	Private Expense	
Thailand	1 (1)		1 (1)
Bangladesh		1 (0)	1 (0)
Total	1 (1)	1 (0)	2 (1)

* The number in the parentheses indicates the number of female students.

Annual Number of International Researchers and Visitors

	2020	2021	2022
Number	0	0	1

As of May 1, 2023



Associated University	China Medical University
Country	China
Agreement Period	Sep. 13, 2005 – Sep. 12, 2025
Associated University	Mahidol University, Faculty of Tropical Medicine
Country	Thailand
Agreement Period	Mar. 31, 2008 – Mar. 21, 2028
Associated University	Udayana University
Country	Indonesia
Agreement Period	Apr. 21, 2008 – May 14, 2028
Associated University	Harbin Medical University
Country	China
Agreement Period	May 16, 2010 – May 15, 2025
Associated University	Mongolian National University of Medical Sciences
Country	Mongolia
Agreement Period	July 23, 2012 – Nov. 15, 2027

Associated University	Mae Fah Luang University
Country	Thailand
Agreement Period	Jan. 10, 2018 – Jan. 9, 2023 (Update in Progress)
Associated University	Cape Coast Teaching Hospital/ College of Health and Allied Sciences
Country	Ghana
Agreement Period	July 23, 2018 – July 22, 2023
Associated University	Pomeranian Medical University in Szczecin
Country	Poland
Agreement Period	Nov. 28, 2018 – Nov. 27, 2023
Associated University	Universidade Federal do Rio Grande do Sul
Country	Brazil
Agreement Period	May 28, 2021 – May 27, 2026

Educational and Research Expenditure

As of May 1, 2023

Grants-in-Aid for Scientific Research in 2022

	Number	Granted Amounts		Grand Total
		Direct Expenses	Indirect Expenses	
Research on Innovative Areas	1	20,300	6,090	26,390
Scientific Research(B)	8	29,900	8,970	38,870
Scientific Research(C)	114	93,300	27,990	121,290
Challenging Research (Exploratory)	1	0	0	0
Young Scientists	54	40,300	12,090	52,390
Grant-in-Aid for Research Activity Start-up	7	7,000	2,100	9,100
Fostering Joint International Research (A)	3	24,000	7,200	31,200
Fostering Joint International Research (B)	3	6,600	1,980	8,580
Support for Formation of Independent Research Infrastructure	1	1,500	450	1,950
Grant-in-Aid for Publication of Scientific Research Results	1	500	0	500
Encouragement of Scientists	2	940	0	940
Total	195	224,340	66,870	291,210

* The number indicates the research led by principal investigators. (Unit: JPY 1,000)

Other External Competitive Funds in 2022

	Number	Direct Expenses	Indirect Expenses	Grand Total
Grant for the Promotion and Development of Medical Research by the Japanese Agency for Medical Research and Development (Translational Research Strategic Promotion Program)	2	4,878	0	4,878
Grant for the Promotion and Development of Medical Research by the Japanese Agency for Medical Research and Development (Translational Research Program)	1	17,546	5,264	22,810
Commissioned Research and Development Expenditure by the Japan Agency for Medical Research and Development (Health Survey Promotion Grants)	1	5,000	1,500	6,500
Commissioned Research and Development Expenditure by Japan Agency for Medical Research and Development (Interstellar Initiative and e-ASIA)	1	2,637	791	3,428
Grant-in-Aid for Scientific Research Subsidized by Ministry of Health, Labour and Welfare	2	6,512	1,952	8,464
CREST by Japan Science and Technology Agency	1	45,400	13,620	59,020
Bilateral Program by Japan Society for the Promotion of Science	1	0	0	0
Total	9	81,973	23,127	105,100

* The number indicates the research led by principal investigators. (Unit: JPY 1,000)

Revenue and Expenditure for Fiscal Year 2023

Revenue		Expenditure	
	Amount of Money		Amount of Money
Subsidies for the National University Cooperation	4,866	Operating Expenses	30,584
Subsidies for Facility Improvement	55	Education and Research Expenses	4,978
Other subsidies	523	Physician Expenses	25,605
NIAD-QE grants for facility Construction	0	Facility Improvement Expenses	554
Self-Revenue	26,550	Grants	523
Tuition / Examination and Entrance Fees	595	Expenses on University-industry Cooperation Research and Endowment Projects	767
University Hospital Revenue	25,704	Long Term Loan Redemption	1,043
Miscellaneous Revenue	249	Total	33,472
Revenues of University-industry Cooperation Research and Endowment Projects	830		
Proceeds from long term loans	498		
Total	33,472		

(Unit: JPY 1,000,000)

Campus Map

Campus Map

- 1

Administration Bureau Building
- 2

Library
- 3

Lecture and Practical Training Building
- 4

Integrated Research Building
- 5

Clinical Lecture Building
- 6

Hospital Entrance
- 7

Ward
- 8

Outpatient Consultation Ward
- 9

Restaurant Building
- 10

Telemedicine Center
- 11

Shared Building(A)
- 12

Shared Building(B)
- 13

MRI-CT Building
- 14

Radiation Facility
- 15

Central Clinical Building A
- 16

Special Clinical Building
- 17

Central Clinical Building B
- 18

Animal Laboratory for Medical Research
- 19

Laboratory for Radioactive Isotope Research

20

Central Laboratory for Research and Education

21

Clinical Research Building

22

Shared Research Building

23

Nursing Course Building

24

Mechanical Building

25

Sports Ground

26

Clubrooms

27

Japanese Archery Hall

28

Martial Arts Hall

29

Gymnasium

30

Welfare Facility

31

Day Nursery

32

Outdoor Rehabilitation Space

33

Midorigaoka Terrace

34

Family House (Hospital Hospitality House)

35

Dormitory for Nurses

36

Triage Center

37

Air Ambulance Heliport

←Twin Harp Bridge

- ① Campus Entrance
- ② Main Gate of University
- ③ Main Gate of Hospital

Location



- 1 ASAHIKAWA MEDICAL UNIVERSITY
- 2 Japan Railway (JR) Asahikawa Station
- 3 Asahikawa City Office
- 4 Asahikawa Airport
- 5 Hokkaido University of Education, Asahikawa Campus
- 6 National Institute of Technology, Asahikawa College
- 7 Asahiakwa City Hospital
- 8 National Hospital Organization Asahikawa Medical Center
- 9 Asahikawa Red Cross Hospital
- 10 Asahikawa Technical High School
- 11 Asahikawa Minami High School
- 12 Asahiakwa Kosei Hospital
- 13 Asahikawa Keisenkai Hospital
- 14 The Ishikari River
- 15 The Chubetsu River
- 16 Twin Harp Bridge
- 17 Asahibashi (Bridge)
- 18 Asahikawaohashi (Bridge)
- 19 Tokiwa Park
- 20 Kamikawa Shrine
- 21 Asahikawa Takasu Interchange



TRANSPORTATION

- By Train (Japan Railways):**
About 1 hour and 25 minutes from Sapporo Station to Asahikawa Station
About 2 hours and 20 minutes from New Chitose Airport Station to Asahikawa Station (transfer in Sapporo)
- By Bus (Asahikawa Denki Kido):**
About 35 minutes from Asahikawa Station (Number 27 Bus Stop) to Idai Byoin Mae (Asahikawa Medical University Hospital) via Ryokuto Ohashi by bus number 71
- By Bus (Asahikawa Denki Kido and Furano Bus):**
About 30 minutes from Asahikawa Airport to Asahikawa Idai Mae (Asahikawa Medical University)
- By Taxi:**
About 15 minutes from Asahikawa Station to Asahikawa Medical University
About 20 minutes from Asahikawa Airport to Asahikawa Medical University



The Emblem of the National Institution for Academic Degrees and University Evaluation

As is stated in Article 109, Section 2 in the School Education Law, Asahikawa Medical University was evaluated by the National Institution for Academic Degrees and Quality Enhancement of Higher Education and was certified on March 24, 2022, to be in satisfactory compliance with the standards of the Japan Institution for Higher Education Evaluation.



Japan Accreditation Council for Medical Education (JACME)

In AY 2019, the School of Medicine at Asahikawa Medical University was evaluated and audited by the Japan Accreditation Council for Medical Education (JACME) in order to assure the quality of our educational system. We were certified that we satisfy the global standards for Basic Medical Education.



The Emblem Accredited by the Japan Accreditation Board for Nursing Education

In AY 2022, the School of Nursing at Asahikawa Medical University was evaluated and audited by the Japan Accreditation Board for Nursing Education. We were certified that we satisfy its standards.



The Emblem of Asahikawa Medical University

Snow crystals and the Japanese rowan (designated as the Asahikawa City Tree) symbolize Hokkaido and Asahikawa respectively. The characters in the middle of the symbol represent Asahikawa Medical University in the center of Hokkaido.



The Brand Mark of Asahikawa Medical University

The emblem was designed out of the striped initial letter of Asahikawa Medical University. Its upward strokes symbolize the university nurturing medical professionals and researchers from Asahikawa, and improving and providing local community-oriented medical care and welfare. The purple in the emblem implies a landscape of lavenders, medical sagacity, and international contribution, and the green symbolizes regeneration and the brilliance of life.



Kurumin Logo

On June 25, 2015, based on Article 13 of Act on Advancement of Measures to Support Raising Next-Generation Children, we were accredited by the president of the Hokkaido Labor Bureau to be an organization friendly to families raising children, and were granted the Kurumin logo, a mark showing the accreditation.

Learning the Most Advanced Medicine at the Northernmost Medical University in Japan

Asahikawa Medical University

Edited by the General Affairs Division

2-1-1-1 Midorigaoka Higashi, Asahikawa City, Hokkaido, 078-8510, JAPAN

Tel: +81-166-65-2111

URL: <https://www.asahikawa-med.ac.jp>