

KOREA'S LEADER  
IN ADVANCEMENT OF MEDICINE!  
BEYOND KOREA TO THE WORLD!

KYUNGPOOK NATIONAL UNIVERSITY  
CHILGOK HOSPITAL

# KYUNGPOOK NATIONAL UNIVERSITY CHILGOK HOSPITAL

A FIRST-CLASS HOSPITAL WITH NUMEROUS RECORDS OF  
BEING THE FIRST AND THE BEST

## Mission

Realize love for humanity and the healing art of medicine,  
and contribute towards health enhancement by providing  
the best education and medical treatments as well as  
undertaking ceaseless research

## Vision

Cultivate competent, ethical and professional personnel  
Lead cutting-edge medical research  
Patient-oriented treatment  
Work hand-in-hand with society

## Core Values

Cultivate competent personnel  
Advance medical science  
Respect for life



# OVERVIEW

## Kyungpook National University Children's Hospital

A specialized hospital for children suffering from a rare, incurable disease, severe disease, developmental disease, inborn errors of metabolism, solid tumors, and congenital malformation.

## Main Hospital

The largest-scale 1,300-bed hospital in the south of the Han River where is competent for providing medical treatment in all areas.

## Senior Healthcare Center

The first National Medical Healthcare Center for the Elderly in South Korea where studies treatment and care for senility-related issues, including aging.

## Cancer Center

A state-of-the-art Cancer Center where keeps an eye out for the quality of patients' life even after treatment.

## Research and Education Center for Cancer

The hub of cancer research and education in South Korea where simultaneously studies cancer and carries forward a national project for the conquest of cancer while satisfying the individuals of the community by providing cancer prevention campaigns, early-stage cancer screening tests, and home-based management programs for cancer patients.



# LIST OF MEDICAL DEPARTMENTS

## Medical Departments

Allergy and Clinical Immunology
Anesthesiology and Pain Medicine
Biomedical Engineering
Breast Thyroid Surgery
Cardiology
Colorectal Surgery
Dentistry
Dermatology
Emergency Medicine
Endocrinology and Metabolism
Family Medicine
Gastroenterology
Gastrointestinal Surgery
Hepatobiliary Pancreatic Surgery
Infectious Disease
Laboratory Medicine
Nephrology
Neurology
Neurosurgery
Nuclear Medicine
Obstetrics and Gynecology
Oncology-Hematology
Ophthalmology
Orthopedic Surgery
Otorhinolaryngology-Head and Neck Surgery
Pathology
Plastic and reconstructive Surgery
Psychiatry
Pulmonology
Radiation Oncology
Radiology
Rehabilitation Medicine
Rheumatology
Thoracic Surgery
Urology
Vascular Surgery

## Cancer Center

Breast Cancer Center
Center for Precision Medical
Colorectal Cancer Center
Gastric Cancer center
Gynecological Cancer Center
Head and Neck Cancer Center
Hepatobiliary Pancreatic Cancer Center
Liver Cancer Center
Lung Cancer Center
Oncology-Hematology Center
Thyroid Cancer Center
Urological Cancer Center

## Children's Hospital

Pediatric Infectious Diseases
Pediatric Endocrinology
Neonatology
Obstetrics
Pediatric Allergies and respiratory
Pediatric and Adolescent Neurology
Pediatric Anesthesia and Pain Medicine
Pediatric Cardiology
Pediatric Diagnostic Laboratory Medicine
Pediatric Gastroenterology, Hepatology and Nutrition
Pediatric Hematology-Oncology
Pediatric Nephrology
Pediatric Neurosurgery
Pediatric Ophthalmology
Pediatric Orthopedics Surgery
Pediatric Otolaryngology
Pediatric Pathology
Pediatric Plastic Surgery
Pediatric Psychiatry
Pediatric Radiology
Pediatric Rehabilitation Medicine
Pediatric Surgery
Pediatric Thoracic Surgery
Pediatric Urology
Children's Intensive Care Center
High Risk Maternal Newborn Integrative Treatment Center
Pediatric and Adolescent Palliative Care Center
Pediatric Developmental Rehabilitation Center
Center for Rare Diseases

## Special Clinics

Anticancer Drug Specific Skin Reaction Clinic
Brain Tumor Clinic
Cancer Patients and Family Mental Health Clinic
Cholelithiasis Clinic
Dizziness Clinic
Fetal Heart Clinic
Hospice Palliative Care Clinic
Inflammatory Bowel Disease Clinic
Kawasaki Disease Clinic
Obesity Metabolism Clinic
Pain Clinic
Pituitary Gland Clinic
Prostate Clinic

# ■ KNUCH FAMILY



Kyungpook National University Chilgok Hospital



Kyungpook National University Hospital



Kyungpook National University Children's Hospital



Gyeongbuk Regional Kyungpook National University Rehabilitation Hospital



Kyungpook National University Dental Hospital



Kyungpook National University Hospital Biomedical Research Institute



Clinical Trial Center (~2022.11)



Kyungpook Regional Infectious Disease Hospital (~2024.12)



Kyungpook National University School of Medicine Campus 1, 2



## VITAL MEDICAL INSTITUTE IN DAEGU-GYEONGBUK REGION



Gyeongbuk Regional Rehabilitation Hospital

Gyeongbuk Regional Rehabilitation Hospital was built with the aim of enhancing public rehabilitation-specialized medical service in the region by the Korean government, Gyeongbuk and Gyeongsan. Kyungpook National University Hospital was delegated as an institution that manages and runs the Gyeongbuk Regional Rehabilitation Hospital. It has 27 various specialized rehabilitation therapy rooms, including a robot-assisted gait training room, pediatric physical therapy room, and training of daily living room with rehabilitation specialized doctors, nurses, physical therapists, occupational therapists, and social welfare workers. Moreover, it is perfectly equipped with a power lift for patients, an aquatic treadmill and multi aqua gym, one of Korea's biggest aquatic therapy facilities. It satisfies local residents' thirst for high-quality rehabilitation treatment and helps patients and their families return to happy daily life after conquering their disabilities.

Kyungpook Regional Infectious Disease Hospital(KNUCH)



Kyungpook National University Chilgok Hospital was ultimately selected as the 'Kyungpook Regional Infectious Disease Hospital' by Korea Disease Control and Prevention Agency (KDCA). This project aims to establish and operate an independent infectious disease ward and national infectious disease management infrastructure to prepare for a large-scale crisis of emerging infectious diseases. Henceforth, KNUCH is planning to build a new ten-story infectious disease hospital, six stories above ground and four stories below ground, and the total site size will be 11,532m<sup>2</sup> (approx. 13,792 yds), including 240 parking spots. KNUCH is considered to carry out its mission as a control tower responsible for Gyeongbuk province based on its know-how in dealing with infectious diseases accumulated while working as the designated COVID-19 hospital.

## HIGHEST LEVEL OF SURGICAL INFRASTRUCTURE IN THE WORLD



Innova IGS7 (740) Hybrid Operating Room Angiography System

We have equipped ourselves with world-class medical infrastructure by being first in the Daegu-Gyeongbuk region to set up a hybrid operating room capable of simultaneously performing angioplasty and other surgical procedures. High-performance fluoroscopic apparatus and a surgical bed have been installed to conduct endovascular treatments and surgeries simultaneously. Since it is possible to execute treatment procedures and surgery simultaneously or undergo transitions between treatment procedures and surgery at a moment's notice, the hybrid operating room can provide safer and more effective treatment as well as dealing with emergency patients more promptly.

Even if a patient has multiple lesions rather than a single organ or tissue lesion or has medical conditions requiring combined treatment procedures and surgery, various medical specialists can simultaneously carry out surgical treatment vascular intervention procedures for each area.

In addition, hybrid surgery can also be performed to treat disorders in the blood vessels more safely, not only in the angiography room but also in the operating room. At the same time, it is possible to establish 3-D images for treatment by means of a contrast medium applied concurrently using fluoroscopic devices during surgery. Combining such examination images with the latest peripheral support devices makes it possible to significantly elevate diagnosis accuracy and treatment certainty, thereby enabling the application of highly advanced endovascular treatments and new surgical techniques. Hybrid surgery can be applied to treating a vast range of vascular diseases across each part of the body, including cerebrovascular, cardiovascular, aortic, vena-carvel, and other peripheral blood vessel diseases. It can also be utilized broadly for the purpose of checking blood vessel conditions during other various surgical procedures.



**Da Vinci SP (Single Port) Surgical System**

The da Vinci SP system is designed to access narrow and deep tissue easily. Moreover, a 3D camera with joints has been added to the da Vinci System for the first time, enabling the surgeon to view surgical procedure areas clearly and freely. 3 other surgical devices equipped with a camera, wrist joint, and elbow joint have been mounted to a single arm of da Vinci. As such, it has eliminated the inconvenience that can occur with the use of da Vinci when its arms collide while devices are moved in the existing multiport and ensures a 360-degree view to enable elaborate surgeries in narrower and deeper locations in the body. Since damage to nerves has been minimized, and the incision area is also minimized through the use of a single puncture, it is anticipated that the patient will be able to recover even more quickly after the surgery. Kyungpook National University Chilgok Hospital has reached 5,000 cases of Robotic Surgery using the da Vinci system on 4th February 2021. This is the highest record in the regions of South Korea except for the capital area.

**CARE BEYOND TREATMENT**  
**Reached 5,000 Cases of Da Vinci Robotic Surgery!**

As of February 2021, the cumulative basis



**Best Doctors**



- Prof. Kwon, TaeGyun
- Urology
- President of Kyungpook National University Chilgok Hospital



- Prof. Choi, Gyuseog
- Colorectal Surgery

**STRIVING TO OFFER THE BEST IN CANCER TREATMENT!**



Latest Linear Accelerator for Cancer Treatment Radiotherapy, Vital Beam

'Vital Beam' executes examination and radiotherapy treatment in the shortest possible time

**Advantages of Vital Beam**

- Minimal patient treatment time
- Reduced radiation exposure through low-dose filming
- High treatment accuracy
- Precisely pinpoints tumor location

**Latest Radiotherapy Technique Realization**

- Intensity-Modulated RadioTherapy, IMRT
- Volumetric Modulated ArcTherapy, VMAT
- Stereotactic Body RadioTherapy, SBRT
- Image-Guided RadioTherapy, IGRT



**Rapid Arc**

Rapid Arc protects normal tissue as much as possible and provides advanced treatment for cancer by performing accurate positioning in real-time based on CT scans using high-energy X-rays and electromagnetic radiation.

THE BEST **DIAGNOSIS EQUIPMENT** IN THE WORLD!  
ACCURATE DIAGNOSIS INCREASES TREATMENT  
SUCCESS RATE!



MRI(Magnetic Resonance Imaging)  
Signa Architect 3T

Kyungpook National University Chilgok Hospital MRI room is not only emphasizing an accurate examination but also considering the mindset of patients with claustrophobia. We have put the image of nature on the ceiling for the sake of patients who are afraid to undertake necessary MRIs due to claustrophobia.



CT (Computed Tomography X-Ray System)  
Definition Edge

Ground-breaking equipment for detecting lesions through 3D images can reduce exposure to radiation through quicker examination and provide an accurate diagnosis by enhancing the resolution of images obtained.



PET-CT (Positron Emission Tomography-  
Computed Tomography)  
Discovery PET-CT 600, 690

Cancer diagnosis equipment capable of detecting cancer at the earliest possible stage provides cancer diagnosis by identifying abnormalities in the body's metabolic processes, making it equipment that plays a decisive role in early-stage cancer diagnosis, with the capability to film the entire body at once.



Total Laboratory Automation System (TLA) within the Laboratory Medicine Department

A system capable of promptly processing large quantities of specimens. An examination system has fully automated the entire process, ranging from preliminary processing of specimens and results reporting, which previously was only possible in separate sections of existing laboratory medicine departments. Accordingly, it is a cutting-edge examination system for a more accurate and faster laboratory that allows the patients to feel more comfortable. The entire process ranged from application filing to collection, blood transportation and testing, and the reporting of results, are performed in one step to minimize both the error that can potentially occur across each separate stage of the process and the patient standby time. Furthermore, it is possible to eliminate problems, such as cross-contamination, switching of specimens, and reduce the risk of examiner infection.



Unipul-5000 Automatic  
Ampoule Dispensing System

We are the first in the Republic of Korea to have introduced an automatic ampoule preparation system in which a robot automatically prepares injection ampoules precisely and accurately to prevent error and external contamination. This is a system that enhances medical safety and patient comfort.

I.V.Station ONCO Anti-Cancer Drug Preparation Robot System

Anti-cancer drugs, which need to be prepared accurately in an environment that guarantees safety, must be prepared with an absolute accuracy of doses under complete aseptic conditions and administered to the patient at the precisely prescribed time. Accordingly, this system not only ensures the safety of the pharmacist preparing the anti-cancer drug but also the overall medical safety and prevents error through accurate and precise drug preparation and dispensation



## A MEDICAL TRAINING HUB WITH GLOBAL MEDICAL STAFF PURSUING MEDICAL SCIENCE ADVANCEMENT!



2021 International Medical Training to Kazakhstani Doctors by KNUCH Rehabilitation Dept.

Kyungpook National University Chilgok Hospital is implementing educational conferences, demonstration of surgeries and medical procedures, master classes, and video conferences at local sites for medical staff members of the world. We provide medical training for medical staff members from 16 countries visiting Kyungpook National University Chilgok Hospital every year and jointly developing a professional training curriculum as well as a medical education system to cooperate with numerous overseas medical education institutions.

Kyungpook National University Chilgok Hospital, striving to make advancements in cooperation with the medical staff members of the world through medical progress, education, and research, provides open opportunities to share medical experiences anywhere in the world and also offers training at Kyungpook National University Chilgok Hospital for doctors, nurses, clinical pathologists, rehabilitation therapists, and health administration specialists, etc. Kyungpook National University Chilgok Hospital, a hub of medical training, is looking forward to partners wanting to grow together in the global arena.



Visit of the Samarkand State Medical Institute, Uzbekistan



Korea-Kazakhstan Infectious Disease Expert Webinar

## HIGHWAY TO OVERSEAS BUSINESS TRIP IN COVID-19 PANDEMIC ERA



The Korean National Track-and-Field Team Took the Covid-19 Test and the Fit-to-Fly Medical Certification for the 2020 Tokyo Olympic in KNUCH



'Fit-to-fly medical certification' was created based on the entry restriction for foreigners enforced in some countries according to the pandemic situation. In other words, individuals who need to travel for business purposes can be approved to travel by issuing publicly credible documents of COVID 19. Confirmations can be issued in accordance with designated forms of the Korean government or foreign government, and the countries that allow visits can be confirmed by contacting the embassy. Nevertheless, it is not allowed for a trip for individual purposes. Ministry of Health and Welfare designated 25 medical institutions and started to issue the certificate in March 2020. The number of issuances increased from 300 to around 2000 per month, and they decided to add more medical institutions in other regions to cover high demand. Kyungpook National University Chilgok Hospital has been designated as a Certificate Authority for fit-to-fly medical certification by the Ministry of Health and Welfare on March 3rd, 2021. Henceforth, companies and business people in the regions who need urgent overseas business trips do not need to visit the capital area to get the required documents for their flight. KNUCH also issued the certification to the Korean national track-and-field team and helped them depart to Japan smoothly for the 2020 Tokyo Olympics. Applicants can schedule an appointment for examination through KNUCH International Health Business Center (IHBC), and the confirmation can be visited and received by you or your agent (bring a written authorization, ID).

### Inquiries For Issuing 'Fit-to-Fly Medical Certification'

**Contact :**  
International Healthcare Business Center  
Of Kyungpook National University  
Chilgok Hospital  
053-200-2043 or 010-4122-2043

**Business hours :**  
Mon ~ Thu (9am ~ 12pm)

## STRONG PARTNERSHIP WITH US FORCES IN KOREA



Visit of the US 19<sup>th</sup> Expeditionary Sustainment Command



In 2016, Kyungpook National University Chilgok Hospital made a business agreement with the TRICARE and International SOS to provide medical service to US Forces in Korea. The TRICARE Overseas Program (TOP) is the DOD's health care program for active or retired duty service members and their families, and International SOS is a health and security services firm that helps patient treatment and administrative procedures at the local hospital in foreign countries. KNUCH's International Healthcare Business Center (IHBC) coordinates all the procedures, including scheduling, payment, medical interpretation and managing medical records. There are regular meetings and training with two institutes to develop a strong partnership, and KNUCH tries to promote the Tricare services to the US Forces so that more people can experience a convenient healthcare system. Furthermore, KNUCH and US Forces held the 'K-Prevention of COVID-19 Conference' and built mutual cooperation to overcome COVID-19. As a result, the 19th Expeditionary Sustainment Command recognized their contribution to improving the medical service of military personnel and their families and granted a letter of appreciation to Racheal Seo, a registered nurse (R.N) in charge of Tricare at IHBC of KNUCH.

# ■ KNUCH IN THE WORLD



## Overseas Institutions and Hospitals MOU Status

Country	Institution	MOU Date
China	Jilin Medical University Meihokou City Central Hospital	2014.07.
China	China Hunan Cancer Hospital	2015.02.
Vietnam	Hong Ngoc Hospital	2016.03.
Russia	Irkutsk Regional Cancer Center	2016.06.
Mongolia	Mongolian National University of Medical Sciences	2016.07.
Slovenia	University Of Ljubljana, Faculty of Medicine	2016.07.
China	Sichuan Andetianxin Hotel Management Co., Ltd.	2016.12.
Vietnam	Da Nang General Hospital	2017.06.
China	Yancheng No.1 People's Hospital	2017.08.
Kazakhstan	Semey State Medical University	2017.09.
Kazakhstan	East-Kazakhstan Regional Rehabilitation Center	2017.09.
Kazakhstan	KGP on PHV "Mother and Child Center" of the Health Department of the East Kazakhstan Regional Akimat	2017.09.
Kazakhstan	Rehabilitation Medical Center "Klimika Daru"	2017.09.

Country	Institution	MOU Date
Kazakhstan	Al-Farabi Kazakh National University	2017.09.
Vietnam	New Horizon Palliative Care Center	2017.12.
Canada	Princess Margaret Cancer Centre	2018.06.
Vietnam	Bac Ninh General Hospital	2018.09.
Vietnam	Da Nang General Hospital - KNUH Cooperation Center	2018.10.
Russia	I.M. Sechenov First Moscow State Medical University	2018.10.
Turkmenistan	The International Educational-Scientific Center	2019.04.
Uzbekistan	Samarkand State Medical Institute	2019.04.
Uzbekistan	First Clinic of the Samarkand State medical Institute)	2019.04.
Uzbekistan	Second Clinic of the Samarkand State medical Institute	2019.04.
Kazakhstan	Asfendiyarov Kazakh National Medical University	2019.04.
Russia	National Medical Radiology Research Centre	2019.08.
Russia	The Saint Petersburg State Health Care Establishment the City Hospital No 40 of the Resort District	2019.11.

## Collaborating Institutions

Year	Country	Institution
2012	USA	Fred Hutchinson Cancer Research Center, University of Washington
2013		Oregon Health and Science University
2014	USA	University of Florida
		University of Arizona
		Stanford University Medical Center
2015	USA	University of North Carolina
		Wake Forest School of Medicine
		Harvard Medical School
		Harvard Medical School
2016	JAPAN	National Cancer Center Hospital, Japan
2017	UK	Royal Marsden Hospital
2017	USA	Mayo Clinic
		University of North Carolina
		University of California
2018	USA	Johns Hopkins University
		University of Pittsburgh
		Virginia Mason Medical Center
		University of Florida
2019	USA	Sickkids research institute
		The University of California
		University of Iowa Health Care
2019	UK	Royal Marsden Hospital

## This is the list of our hospital's local PR offices

Year	Location	Center Name
2018	Irkutsk, Russia	Irkutsk Medi-City Daegu Kyungpook National University Hospital PR Center
2019	Almaty, Kazakhstan	Al-Farabi-KNUH Cooperation Center
2019	Da Nang, Vietnam	Da Nang General Hospital-KNUH Cooperation Center
2019	Irkutsk, Russia	Kyungpook National University Chilgok Hospital Rehabilitation Medical Center
2020	Samarkand, Uzbekistan	Kyungpook National University Chilgok Hospital and Medi-City Daegu-Samarkand Interaction Cooperation Center



## Contact Number

Tel. +82.53.200.2043, 2045 **Hotline. +82.10.4122.2043**  
Fax. +82.53.200.2049  
E-mail knuch-medical@naver.com  
Address 807 Hoguk-ro, buk-gu, Daegu 41404, KOREA



KNUCH International Healthcare Business Center

Weekday (Mon-Fri)

8:30 a.m. - 5:30 p.m.