



地方独立行政法人 静岡県立病院機構 静岡県立総合病院 Shizuoka General Hospital



## 理念(Mission

Shizuoka General Hospital is dedicated to providing high quality holistic medical care that is reliable and gives peace of mind to all patients.

## ご挨拶 🧧 Director's Greetings

Shizuoka Prefectural General Hospital opened in 1983 following a merger of two prefectural hospitals. Since then, we have consistently provided high-quality medical care to the residents of Shizuoka Prefecture, and accumulated experience as a core hospital in the prefecture that is reliable. In 2009, the hospital became an organization that can flexibly respond to changes in society and medical services as a member of the Shizuoka Prefectural Hospital Organization, which manages three prefectural hospitals. In addition, as a core disaster base hospital and as an advanced medical service center, we are fully prepared to respond to large-scale disaster in the prefecture and accidents that require advanced medical care.

In 2017, we established a new state-of-the-art medical science wing, the Medical Frontier Center, aiming at continuing to safely provide up-to-date medical treatment to all residents in Shizuoka Prefecture and fostering human resources who will play important roles in future medical and nursing care services that can respond to drastic changes in the population structure as well as to demands for the optimization of medical expenses in relation to the national budget.

We are confident that we can provide higher quality medical care in response to the requests of everyone at medical institutions in the prefecture, including patients.



病院長 田中 一成 Issei TANAKA MD,PhD,FACC President

## 基本方針 (Principles and Policy



- We will provide heartfelt medical care based on informed medical information, standing in the position
  of people receiving the medical care.
- As a core hospital in the prefecture, we will engage in highly sophisticated and advanced medical care, and support local community medical services.
- We will proactively take charge of policy-based medical care such as emergency medical care, disaster medical treatment, medical services for outlying areas, and tuberculosis medical treatment.
- We will train high-quality human resources who will lead medical care in the future.
- We will strive toward creating a comfortable working environment and achieving sound hospital management that is highly transparent.

## 標榜診療科目

## Medical Division

Department of Emergency Medicine, Department of Medical Oncology, Department of Cardiovascular Medicine, Department of General Internal Medicine, Department of Cardiovascular Surgery, Department of Psychosomatic Medicine, Department of

Nephrology, Department of Urology, Department of Neurology, Department of Diabetes and Endocrinology, Department of Neurosurgery, Department of Psychiatry, Department of Gastroenterology,

Department of Gastroenterological Surgery, Department of Respiratory Medicine, Department of Respiratory Surgery, Department of Breast Surgery, Department of Obstetrics and Gynecology, Department of Pediatrics,

Department of Orthopaedic Surgery, Department of Ophthalmology, Department of Hematology, Department of Rehabilitation, Department of Otorhinolaryngology, Head and Neck Surgery, Department of Dermatology, Department of Plastic Surgery, Department of Oral and Maxillofacial Surgery, Department of Anesthesiology, Department of Radiology, Department of Clinical Pathology, Department of Cardiac Rehabilitation

## 病床構成

## Number of Beds

一般病床	General beds	662 beds
結核病床	Tuberculosis beds	50 beds
全病床	Total	712 beds

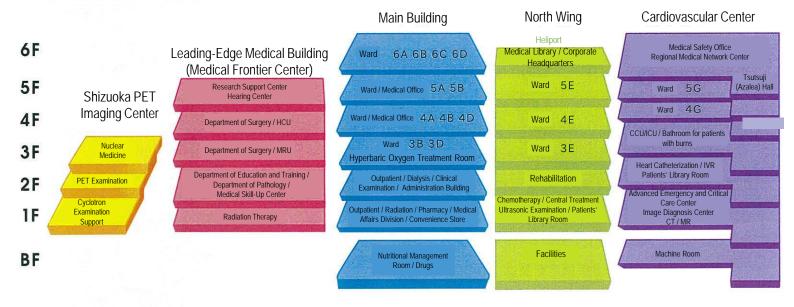


看護体制

一般病棟	General wards	7:1
結核病棟	Tuberculosis wards	10:1

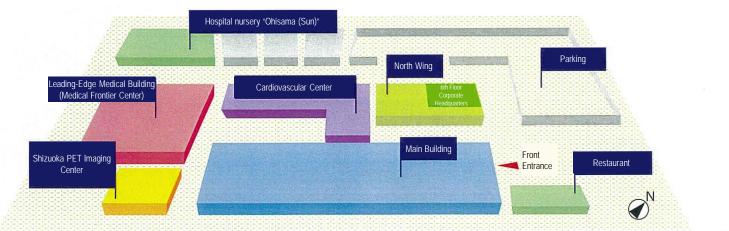


## フロア案内図 Floor Information



## Building Layout

建物配置図



# Three Pillars of Medical Care

# Cancer Medical Care

Designated by the Ministry of Health, Labour and Welfare as a "core regional hospital for collaborative cancer treatment" (2003), the hospital has high-quality health care functions, and plays a central role in cancer medical care in central Shizuoka Prefecture. To enable patients to receive contiguous cancer treatment in accordance with the disease, we have been promoting medical care collaboration through "Regional Collaborative Clinical Path."

In addition, we carry out treatment that is appropriate for each patient such as surgery, chemotherapy (anti-cancer agents / molecule-mediated targeted drug delivery), and radiation therapy, making full use of highperformance diagnostic equipment such as PET and MDCT, for all types of cancer.

# Cardiovascular Medical Care

At the Cardiovascular Disease Center, we are working on treatment for the reduction of mortality due to heart diseases and cerebrovascular diseases. It is said that for acute myocardial infarction, carrying out treatment within 2 hours after its onset is important, while for cerebral infarction, carrying out treatment within 3 hours is important.

The Cardiovascular Disease Center is connected by dedicated elevators with the Advanced Emergency and Critical Care Center on the 1st floor, the Cardioangiography and Treatment Room on the 2nd floor, and the CCU (Coronary Care Unit) on the 3rd floor. In this way, we have established an emergency medical care system for heart diseases and cerebrovascular diseases. We have also established a hybrid operating room in order to reduce the burden on patients and provide a more advanced medical care.

# Emergency Medical Care

We accept all patients ranging from those suffering minor injuries to those suffering the most severe injuries 24 hours a day at the Advanced Emergency and Critical Care Center. Dedicated staff for emergency events and the various diagnosis and treatment departments cooperate to respond to emergency cases such as heart diseases, cerebrovascular diseases, severe trauma, and burns with equipment directly connected with ICU, vascular imaging and treatment rooms, CT rooms, emergency operating rooms, etc.

In addition, we dispatch physicians to the scene of accidents through the use of doctor cars (ambulances with a doctor on board) and operating firefighting helicopters for emergency medical services.



Operating room



**Chemotherapy Center** 



Cancer patients' salon "Smile"



Expanding cancer board



Emergency operating room



Linac Room



Hybrid operating room



Angiography device (angio)



循環器 cardiovascular



CCU/ICU



Cardiac Rehabilitation



Cancer Center (Chemotherapy Center, Department of Medical Oncology, Department of Palliative Medicine)

Advanced Emergency and Critical Care Center (Department of Emergency Medicine) Cardiovascular Center (Department of Cardiovascular Medicine, Department of Cardiovascular Surgery, Department of Cardiac Rehabilitation)



Advanced Emergency and Critical Care Center HCU



Passenger-car-type doctor car



Acceptance of helicopter transport



Hyperbaric oxygen therapy device

General Medical Care Center	Department of General Internal Medicine, Department of Psychosomatic Medicine	
Kidney Center	Department of Nephrology, Department of Kidney Research, Department of Urology	
Diabetes and Endocrinology/Metabolism Center	Department of Diabetes and Endocrinology	
Neurology Center	Department of Neurology, Department of Neurosurgery	
Gastroenterology Center	Department of Gastroenterology Internal Medicine, (Department of Gastroenterology Surgery	
Respiratory Center	Department of Respiratory Medicine, Department of Respiratory Surgery	
Gynecology and Pediatrics Center	Department of Obstetrics and Gynecology, Department of Breast Surgery, Department of Women's Medicine, Department of Pediatrics, Department of Neonatology	Comprehensive
Motor Function Center	Department of Orthopedics, Department of Rehabilitation Medicine	
Sensory Function Center	Department of Ophthalmology, Department of Otorhinolaryngology, Head and Neck Medicine	Strength
Specialized Clinical Center	Department of Hematology, Department of Dermatology, Department of Plastic Surgery, Department of Oral and Maxillofacial Surgery, Department of Pain Clinic, Department of Clinical Genetics	
Surgery Department	Department of Anesthesiology	
Intensive Care Center	Department of Intensive Care	
Radiology Department	Department of Radiology, Department of Nuclear Medicine, PET Center	5.0
Pathology Department	Department of Clinical Pathology, Department of Molecular Pathology	Miniature model of "Doctor Car"







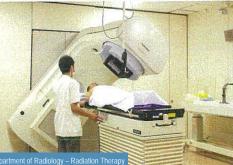
















epartment of Clinical Pathology – Pathological Diagnosis



## Shizuoka PET Imaging Center

Currently, the main purpose of PET examinations is to produce images of the activities of the cancer, but we are also able to carry out inspections to examine the functions, etc. of the heart and brain. At this Center, we have set up PET/CT equipment (3 units), and through images synthesized in combination with a multi-slice CT, we perform highly accurate diagnosis. In the future, when it becomes possible to use new test agents, it is said that early diagnosis of, Alzheimer's type dementia will become possible. In addition, since the Center has adopted the form of joint-use, it is possible for any medical institution to request examinations.

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XELEN



BRPET イメージングセンター

## Leading-Edge Medical Building (Medical Frontier Center)



We provide highly advanced medical care services. In addition, we have established an environment for fostering human resources who will lead medical care in the future as well as an environment where they can engage in clinical research.

Features #1

Interior planning using wood produced in the prefecture

Wooden louvers made from trees growing in the prefecture have been installed in the lounge and other public space, creating a soft and warm atmosphere.

 $\bullet$  1st floor radiation therapy waiting room  $\,\bullet$  5th floor lecture room  $\,\bullet$  Hallway on each floor, lounge



Lounge



Louvers made from trees growing in the prefecture (mainly those growing along the Abekawa River basin) eatures #2

2 Flat flow of traffic to and from the existing building

The six-story existing building and the five-story Medical Frontier Center are of nearly the same height, but the connecting corridors between the first, second, and third floors of the two buildings are flat and there are no slopes or differences in level.

The flow of people and things became smooth, and we were able to secure a sufficient floor height in the operating room area.

Medical Frontier Center				
5F	4.5m	12.12	Existing	building
JI			6階	3.7m
4F	5.6m	Flat	5F	3.7m
	+ + +	connection	4F	3.8m
3F	5.6m		3F	4.0m
2F	4.4m		2F	4.4m
1F	5.0m		1F	5.0m

Medical Frontier Center Floor Guide

## **1**F Radiation therapy

To deliver radiation to a pathological lesion without fail, recent radiation therapy equipment have become larger by being combined with diagnostic imaging units. We have thus set up four treatment rooms that are of sufficient size to respond to such needs. One of these rooms is compatible with omnidirectional shielding required for the CyberKnife. During the initial fiscal year, the latest CT/Linac capable of more precise localized radiation will be introduced, making volumetric modulated arc therapy (VMAT) possible. For the oncoming aging society, we will provide everyone in the prefecture with high-precision radiation therapy that is friendlier to the human body.





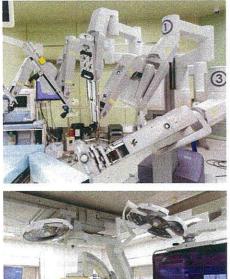
## 2F Department of Education and Training

We will set up a place for training, lectures, etc. for hospital staff members and students. This also supports "Fujinokuni Virtual Medical College," a virtual college promoted by the Shizuoka Prefectural Government.

In addition to installing various types of simulators at the Medical Skill-Up Center, we have also set up a pseudo ward there.

## 3F Operating room (16 rooms)

The new operating room in the Medical Frontier Center consist of 22 rooms occupying the 3rd and 4th floors, with each room having sufficient area. Three operating rooms contain hybrid MRI, CT or angiography equipment - allowing for precise and accurate surgical procedures based on high-resolution diagnostic imagery in the same operating room. In addition to five rooms specially designed for endoscopic surgery, there are two rooms designed for robotic surgery. Microscopic and endoscopic surgical procedures can now be conducted with even greater precision and safety. Adjacent to the operating rooms is a surgical High Care Unit (HCU) and a pathology laboratory, enabling quick patient and specimen transfers. We believe that as advanced surgery using state-of-the-art surgical equipment can be carried out safely, we can give a great peace of mind to everyone in the prefecture.







#### **4F** Operating rooms (6 rooms) HCU (20 rooms)





## 5F Research Support Center

On the 5th floor of the Medical Frontier Center is a Research Support Center where clinical and epidemiological studies that contribute to the health of residents in the prefecture are conducted. Specifically, genetic analysis, statistical analysis, collection/preservation/analysis of specimen, analysis of diseases of the residents, and other research activities are scheduled to by conducted. In Shizuoka Prefecture, where we aim at health and longevity, it will become increasingly important to transmit information not only concerning treatment after getting sick but also concerning not getting sick.

In cooperation with the Shizuoka Children's Hospital and the Shizuoka Psychiatric Medical Center, we will aim at making contributions ranging from basic research that supports clinical medicine to the improvement of the health and welfare of the residents.



### 5F Hearing Center (Shizuoka Prefectural Infant Hearing Support Center)

Hearing disorders during infancy will greatly affect the development of speech. On the other hand, it is known that proper response to and intervention against impaired hearing among children during infancy can result in a child's acquisition of speech at the same level as a healthy child by the time of the child's enrollment in elementary school. In Shizuoka Prefecture, hearing checks are performed on most newborn babies through hearing screening immediately after birth. By aggregating the results at the Center, we will promptly provide advice to the parents on how to interact with their children based on the final diagnostic results.

In addition, while watching the reactions of a child's brain using state-of-the-art equipment, we will make evaluations as to whether the individual cases of interventions against a child's hearing impairment is appropriate. By widely providing a forum for training for people in various occupations involved in hearing impairment among children, we will foster human resources who can appropriately intervene with children who have hearing impairment.

## Activities of This Hospital

#### Collaboration with community clinics and regional medical facilities

As a regional medical care support hospital, we have been promoting collaboration in medical care by dividing roles among hospitals and clinics such examination and treatment. In addition, by operating regional collaborative clinical paths with community clinics, rehabilitation hospitals, etc., we have been carrying out consistent treatment as a series of steps from hospitalization to recovery and rehabilitation after discharge, and even home medical care.

Moreover, we have been leading a network system (Fujinokuni Virtual Mega Hospital, aka "Fujinokuni Net"), through which clinical information is shared among multiple regions and facilities by making full use of advanced ICT technology.







Hospitalization and Release Center

We have incorporated a mechanism for supporting a patient from hospitalization to discharge (Patient Flow Management) in order to achieve smooth hospitalization, treatment, and quick discharge by grasping the patient's risk from before hospitalization. In this way, we are implementing initiatives for providing seamless medical services not only through connections within the hospital but also through connections with the local community.

#### Support for medical care in outlying areas

With regard to such matters as securing and enhancing medical care systems in remote areas as well as strengthening the support system and measures to secure physicians, we have actively taken charge of policy medical care programs implemented by the prefectural government. In addition, we have appointed doctors who have graduated from Jichi Medical University to work at this hospital and dispatched doctors in response to requests by public medical facilities in remote areas.

#### Introduction of advanced and leading edge medical equipment

At our hospital, we have proactively introduced state-of-the-art medical equipment such as MRI equipment (3 units) that provide more detailed image data in a shorter time compared to previous models and multi-slice CT equipment (one 320-row unit, and two 64-row units) as well as angiography equipment (5 units), high-energy linear accelerators (3 units), and a brachytherapy equipment. In addition, by introducing surgical support robot "da Vinci," which was the fourth one to be introduced in a hospital in Shizuoka Prefecture, we have been able to carry out operations for prostate cancer and cervical cancer that place less burden on the patients.



#### Promotion of Clinical Research

#### Clinical Research

Our motto has been to pursue contributing to curing and prolonging the lives of patients as the main theme of our research by taking up unresolved issues regarding diagnosis and treatment as research topics in clinical research.

At the Research Support Center on the 5th floor of the Medical Frontier Center, which opened in 2017, we are promoting clinical research that will contribute to the local community for protecting the lives of prefectural residents as the top priority. Along with this, we will aim at promoting research that takes into consideration the development of medical science, shifting our viewpoint from medical science that examines patients to that which does not generate patients.

#### Clinical trials

So that we can deliver better medicine to patients as soon as possible, we are engaged in clinical trials (treatment) for confirming the effects, side effects, and safety of new drugs with the cooperation of the patients.

To that end, we have been supporting clinical trials by establishing a clinical trial management office and training clinical research coordinators (CRCs).

Scene of site of clinical research carried out in Kawanehon-cho for verification of health improvement through the intake of green tea powder





	Training of high quality haman resources		
Initial clinical training (resident physicians)	We have received designation as a clinical training hospital to perform initial clinical training of physicians 2 years after their graduation.		
Latter term training (practicing physicians)	Targeting doctors who have completed their initial clinical training, we have been conducting training courses aimed at fostering leaders who have acquired comprehensive and all-encompassing skills through practicing primary care they learned in the initial training. In addition, we also have a variety of curriculum for doctors to become qualified specialists in the department they are majoring in.		
Practical training for medical students and nursing students	We accept trainees who seek practical training at the hospital such as medical department students, pharmacy students, and medical care skill students, as well as nursing university students and nursing school students.		
Practical training, etc. for emergency life-saving technician (ELST)	We accept ELSTs from the fire departments of neighboring local governments for practical training, etc. on tracheal intubation. In addition, we dispatch instructors on emergency duties to firefighting schools and doctors to regional medical control council meetings.		
Medical Skill-Up Center	In order to achieve technical improvement of medical professionals, we have established a medical skill-up center where we always have medical education equipment available. We have opened up training using simulators to users from the outside, thus contributing to maintaining and improving the safety and quality of medical care in the entire region.		
Pharmaceutical Education Research Center	In collaboration with the Prefectural University School of Pharmacy, we accept pharmacy students.		

#### International Exchange

We have been conducting mutual dispatch of training participants based on a friendship alliance agreement with various hospitals in Zhejiang Province, China (a total of 100 people over a period of more than 30 years). In addition, we have offered cooperation for JICA projects in such ways accepting people from overseas for observation tours and training courses. We have also been providing support for the internationalization of our staff through presentations at overseas academic conferences, English conversation classes, and guidance on writing academic papers in English.

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# Preparedness for large-scale disasters such as the Tokai Earthquake

#### • Core disaster medical care center (core disaster base hospital)

In 1996, Shizuoka General Hospital was designated as the only core disaster medical care center in Shizuoka Prefecture, and we built a heliport in the hospital and installed space, etc. for disaster prevention response. In addition, we have been striving to strengthen response to disasters such as conducting the hospital's own original disaster drills in preparation for large-scale disasters such as the Tokai Earthquake.

#### • Disaster Medical Assistance Team (DMAT)

As a core disaster base hospital, we have established a disaster relief medical team that will rush to disaster sites in Japan immediately after a disaster.

## • Secondary radiation exposure medical care handling institution (nuclear disaster prevention medical facility)

For patients exposed to radiation, we perform decontamination, treatment, etc. of pollution wounds. In addition, we measure radiation levels, confirm the pollution situation, and assess the radiation dosage.



#### Hospital nursery "Ohisama (Sun)"

So that doctors and nurses can work with peace of mind, we have established a nursery called "Ohisama" within the hospital premises. In addition to regular childcare, we offer sick child care, extended day care, nighttime child care, etc.

#### Service facilities in the hospital

In the hospital premises, there is a restaurant, while inside the hospital, there is a convenience store, an ATM corner, and "Everyone's Library 'Poplar'" where a collection of medical books for the general public has been put together.





## Training of high-quality human resources

## Department of Nursing



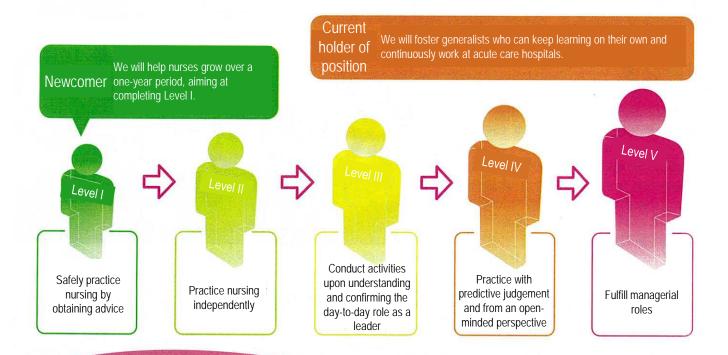
Simulated ward at the Medical Skill-Up Center

Philosophy of the Department of Nursing: Provision of warm and high-quality nursing service, paying respect to the personality of the patient

#### Education System

★ We have set up our education system based on the philosophy of "proactively and continuously providing high-quality nursing practice and thereby foster nurses capable of self-growth."

We support nurses to step up along a five-level clinical ladder.



# The Medical Frontier Center opened in September 2017, aiming at high-quality medical care

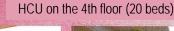
Operating rooms on the 3rd and 4th floors (22 rooms)





First year of employment Nurse assigned to work in operating rooms

There are more operating rooms, and I think that there will be more operations, but I would like to study diligently and work hard.









First year of employment Nurse assigned to work in the HCU

I am studying every day so that I can manage the general status of postoperative patients and critically ill patients and thereby provide nursing care to enable them to spend their time in safety and comfort.

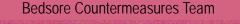
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## Nurses Working Actively in Various Areas



# Activities of Nurses in Team Medical Care





We have been conducting activities to help improve care services by visiting patients with bedsores and providing guidance and advice on how to treat and protect bedsores as well as adjusting their environment.

We have also been conducting activities aiming at enabling patients to recuperate safely and comfortably without developing any skin problems.

#### Nutrition Support Team

We have been working as a team in selecting and carrying out proper nutritional methods for patients requiring nutritional management.

We have been making efforts so that through guidance provided by the Nutrition Support Team and by holding study sessions hosted by the Team, nurses will increase their knowledge about nutrition and they will thus be able to actively offer advice and assistance on nutrition to patients and their family members.

#### Palliative Care Team

We have been conducting team medical care by collaborating with the medical staff of other occupations so that high-quality palliative care can be offered widely to a large number of patients and their family members.

Through better communication, nurses have been offering nursing services that can serve to support the patients and their family members.

#### Lower Limbs Relief Team

A team consisting of various specialists will protect the feet of patients against a variety of foot lesions.

We have been providing support so that patients can protect themselves by examining themselves from their feet to their whole body and from their whole body to their feet and thereby walk on their own feet and lead their lives in their own lifestyles for the rest of their lives.

#### Swallowing Countermeasures Team

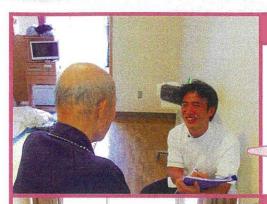
Responding to requests from all departments, otolaryngologists have been performing evaluations and conducting training in collaboration with the ST. At the time of the initial drinking of water after removal of the intubation tube, nurses and the ST collaborate to work on swallowing function recovery.

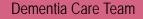
We have been making efforts considering that being able to eat will lead to patients' willingness to recover from their illnesses.











We have been providing support to prevent the worsening of dementia symptoms of hospitalized patients, enable the patients to smoothly receive treatment for physical illnesses, and have them return to the lives they were accustomed to leading.

Support for dementia does not produce results immediately, but we have been conducting activities, always listening to what the patients are saying and thinking about what kind of support they need.

#### Critically III Patients Support Team

We have been providing consultation services and education concerning management of patients experiencing a sudden change in their conditions or those who have a risk of such sudden changes.

We have been keeping in mind that all staff members taking care of critically ill patients can practice nursing services for acute and critically ill patients with a peace of mind, and that the anxiety of the patients and their family members can be reduced.

#### Oral Care Team

We have been making evaluations of the conditions of oral cavities so that not only can dental caries and periodontal disease be prevented but also the effects of bacteria in the oral cavities on the whole body can be minimized.

Currently, we are focusing on perioperative care and providing advice to patients and ward nurses.

#### Ventricular Assist Device (VAD) Support Team

VAD patients are often faced with making difficult decisions, even eying heart transplant operations.

At the time of their decision-making, patients and their family members feel a lot of anxiety. Therefore, all medical personnel support them and try to be able to provide better care.

#### Infection Control Team (ICT)

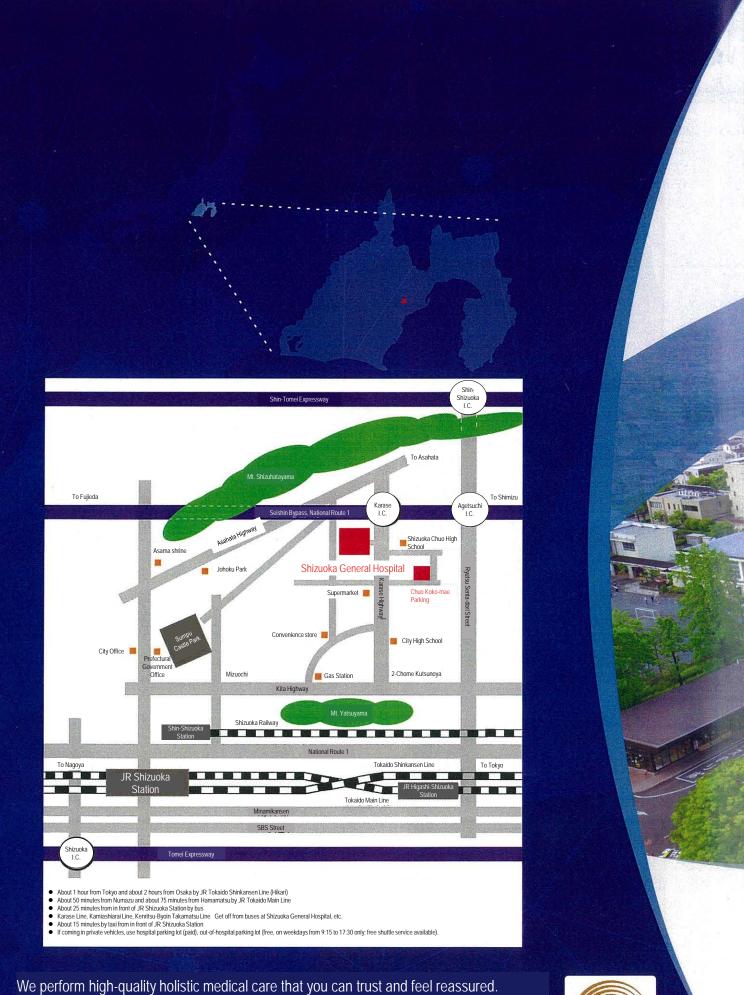
In order to reduce in-house infection, we have been providing support so that situation of the occurrence of the infection can be grasped and infection prevention measures can be carried out quickly and without fail.

We have been focusing not only the activities of the ICT but also on activities "not to pass on, not to spread, and not to contract" a disease by collaborating with the on-site staff members.









Shizuoka Prefectural Hospital Organization Shizuoka General Hospital

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