### Gastroenterology

- Radio frequency ablation, microwave ablation, and transarterial chemoembolization against hepatocellular carcinoma
- Peroral cholangioscopic lithotripsy for difficult bile duct stones including Mirizzi syndrome
- Endoscopic balloon dilation therapy using balloon assisted endoscope for the Crohn’s disease patient with small bowel stenosis or stricture
- Endoscopic treatment for gastrointestinal malignant tumors in patients with the use of anti-thrombotic drugs and/or complications
- Interventional radiology for uncommon liver diseases and vascular disorders
- Intensive care for acute liver failure
- Antivirals against hepatitis B and C
- Systemic chemotherapy against hepatobiliary pancreatic cancers
- Partial splenic embolization for thrombocytopenia caused by hypersplenism
- Ultrasound-guided biopsy of liver tumor for pathological diagnosis
- Balloon enteroscope-assisted ERCP in patients with Billroth II gastrectomy or Roux-en-Y anastomosis
- Diagnostic assessment of peroral cholangioscopy in patients with undetermined biliary lesions
- Endoscopic ultrasound-guided fine needle aspiration for diagnosis of solid pancreatic tumors
- EUS guided drainage for peripancreatic fluid collections
- Induction and maintenance therapy for inflammatory bowel disease including ulcerative colitis and Crohn’s disease
- Assessment of pathogenesis in the abdominal diseases using Doppler and contrast-enhanced ultrasonography

### Hematology

- Diagnosis and treatment of hematologic malignancies: Acute leukemia, Chronic leukemia, Malignant lymphoma, Multiple myeloma
- Anemias and coagulopathies: Aplastic anemia, Hemolytic anemia, Immune thrombocytopenia, Coagulopathies
- Stem cell transplantation: Allogeneic hematopoietic stem cell transplantation for hematologic malignancies and aplastic anemia
- Autologous peripheral blood stem cell transplantation for multiple myeloma, refractory lymphoma and POEMS syndrome
- Long-Term Follow-Up (LTFU) program provides life-long monitoring and care of patients following stem cell transplantation

### Nephrology

- Renal biopsy and immunosuppressive treatments for nephrotic syndrome and glomerulonephritis Control Gestational hypertension with obstetrician
- Diagnosis and treatment of inherited renal disease (e.g. Fabry disease, Polycystic kidney, Alport syndrome)
- Control Gestational hypertension with obstetrician
- Selection and treatment of Antihypertensive drugs against intractable hypertension without other cardiovascular diseases

### Allergy and Clinical Immunology

- Highly advanced clinical management for allergic diseases and for autoimmune connective tissue diseases
<table>
<thead>
<tr>
<th><strong>Diabetes, Metabolism, and Endocrinology</strong></th>
<th><strong>Cardiovascular Medicine</strong></th>
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</thead>
<tbody>
<tr>
<td>• Super selective adrenal veinous sampling</td>
<td>• Imaging modalities</td>
</tr>
<tr>
<td>• Comprehensive management of diabetes and obesity</td>
<td>• echocardiography (transthoracic/transesophageal)</td>
</tr>
<tr>
<td>• Continuous Glucose Monitoring 24 hours</td>
<td>• 320-raw CT</td>
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<tr>
<td>• Continuous subcutaneous insulin infusion</td>
<td>• cardiac MRI</td>
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<tr>
<td>• Diet, exercise, drug, foot care therapies</td>
<td>• RI(perfusion/MIBG/BMIPP)</td>
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<tr>
<td>• Peripheral neuropathy treatment with neurologist</td>
<td>• FDG-PET</td>
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<tr>
<td>• Conversation map with trained facilitators</td>
<td>• Physiological tests</td>
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<tr>
<td>• Genetic diagnosis of inheritable progeroid syndromes</td>
<td>• Holter ECG</td>
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<tr>
<td>• Chemotherapy &quot;Mitotane and EDP&quot; for adrenocortical cancer</td>
<td>• ABPM</td>
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<tr>
<td>• Evaluation of insulin resistance by use of euglycemic clamp method</td>
<td>• baPWV</td>
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<td>• Treadmill test (exercise/drug), etc</td>
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<td></td>
<td>• Coronary artery disease</td>
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<td>• evaluation in the cath labo: Coronary Angiography, Intracoronary Vascular Ultrasound, fractional flow reserve, Spasm provocation</td>
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<td>• treatment with percutaneous intervention, elective or emergent</td>
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<td>• Cardiac arrhythmia</td>
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<td>• treatment with catheter ablation</td>
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<td></td>
<td>• Device Implantation: Implantable Loop Recorder, Leadless Pacemaker, ICD, wearable CD, and CRT</td>
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<td>• Structural Heart Disease</td>
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<td></td>
<td>• Transcatheter aortic valve implantation in cooperation with cardiovascular surgeons</td>
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<td></td>
<td>• Heart Failure</td>
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<td></td>
<td>• Diagnosis and full work-up of heart failure</td>
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<td></td>
<td>• Management of heart failure patients with implantable LVAD</td>
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<td></td>
<td>• Multidisciplinary/comprehensive management of severe heart failure patients</td>
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<td></td>
<td>• Hypertension</td>
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<td>• Diagnosis and treatment of resistant hypertension</td>
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</table>
| Respiratory Medicine | - Respiratory diseases including respiratory infections (such as viral and bacterial pneumonia, non-tuberculous mycobacterial infection, fungal diseases, et al)
  - pulmonary allergic diseases (such as bronchial asthma, allergic bronchopulmonary aspergillosis)
  - COPD (chronic obstructive pulmonary disease)
  - respiratory failure due to various respiratory diseases
  - interstitial lung diseases (such as idiopathic pulmonary fibrosis)
  - hypersensitive pneumonitis, drug-induced interstitial pneumonia
  - pulmonary hypertension (such as pulmonary arterial hypertension, chronic thromboembolic pulmonary hypertension)
  - pulmonary vascular diseases (such as AVM, pulmonary vascular abnormalities)
  - sleep apnea syndrome
  - malignant respiratory diseases (such as lung cancer, methothelioma, and mediastinal tumors) |
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<tr>
<td>Japanese- Oriental (Kampo) Medicine</td>
<td>Kampo medicine approaches to impossibility of diagnosis by western medicine, unfounded organic factor and uncontrolled disease with western medicine from different conception, and also makes possibility of symptom improve.</td>
</tr>
</tbody>
</table>
| Control and Treatment of Infectious Diseases | - We are opening the Travel Clinic at the Division of Infectious Diseases for pre-travel consultations and immunizations. Besides, we will be able to accept patients from Narita International Airport who are acutely ill and need post-travel care.
  - The new patient-care center will be able to provide intensive care for patients with class one infectious diseases (such as hemorrhagic fevers, smallpox, plague, etc.), and also provide care to emerging and re-emerging infectious diseases.
  - We provide diagnostic and treatment consultations for complex infectious diseases.
  - In collaboration with Chiba University Medical Mycology Research Center, who provide diagnostic and treatment consultations for patients with difficult-to-treat fungal infections.
  - We provide care and treatment for people living with HIV. |
| Cardiovascular Surgery | - Implantable ventricular assist device for severe heart failure
  - Pulmonary artery thrombendarterectomy for chronic thromboembolic pulmonary hypertension
  - Surgical left ventricular reconstruction and valve repair for ischemic heart failure
  - Stent grafting for thoracic and/or abdominal aortic aneurysm
  - Coronary artery bypass grafting for coronary artery disease
  - Valve reconstruction and/or replacement for valvular heart disease |
| Esophageal-Gastro-Intestinal Surgery | - Esophagectomy
  - 3 field Lymphadenectomy
  - Total and Subtotal Gastrectomy
  - Lower Anterior Resection
  - Total Colectomy
  - Total and Partial esophagectomy
  - Endoscopic Submucosal Dissection
  - Laparoscopic surgery
  - Argon Plasma Coagulation
  - Chemotherapy TS-1+Cisplatin(CDDP) |
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<tr>
<th><strong>General Surgery, Hepato-Biliary-Pancreatic Unit</strong></th>
<th><strong>Breast and Thyroid Surgery</strong></th>
<th><strong>General Thoracic Surgery</strong></th>
<th><strong>Anesthesiology, Pain and Palliative Care Medicine</strong></th>
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</thead>
</table>
| • Surgical treatment for malignant disease of HPB especially surgical resection against advanced cancer  
• Living-donor liver transplantation for hepatic disease  
• Multidisciplinary treatment combined chemotherapy, radiation therapy and surgical resection treatment for benign biliary stenosis  
• Laparoscopic surgery for Hepato Pancreatic disease  
• Robot assisted surgery for Hepato Pancreatic disease | **Breast cancer:**  
• Outpatient surgery/ Day surgery  
• MRI or CT image-guided surgery for non-palpable lesions  
• Immediate partial breast reconstruction  
• Clinical trials and clinical studies  
• Chemotherapy before or after surgery  
• Fine needle aspiration biopsy, Core needle biopsy, Stereotactic or Ultrasound guided vacuum-assisted biopsy, Open biopsy  
• Sentinel lymph node biopsy  
• Breast-conserving surgery  
• Total mastectomy, Skin-sparing mastectomy, Nipple-sparing mastectomy  
• Immediate or delayed breast reconstruction with plastic surgeons  
• Hormone therapy  
• Molecular targeted therapy  
• Thyroid cancer  
• Thyroidectomy, Lobectomy, Lymph node removal  
• Primary and secondly hyperparathyroidism:  
• Parathyroidectomy | **Diagnosis and treatments for thoracic malignancies such as lung cancer, mediastinal tumors, chest wall tumors, pleural mesothelioma, and metastatic lung tumors.** Our surgical policy for locally advanced lung cancer is lung-preservation suing bronchoplasty and/or pulmonary arterial plasty techniques and precise evaluation by EBUS-TBNA, thin-slice CT and FDG-PET scan.  
• Management of pleural diseases such as pneumothorax, pyothorax, and other intrapleural disorders.  
• Diagnosis and treatments for trachea-bronchial diseases. Especially, interventional procedures such as biopsy for extra luminal lesions under endobronchial ultrasound, stent treatment for stenosis, laser abrasion for tumors.  
• Lung transplantation for benign progressive lung diseases utilizing brain-death donor or living donor. | **Palliation of symptoms due to cancer progression and/or cancer treatment.**  
**Treatment against painful conditions, e.g. CRPS** |
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<tr>
<th>Urology</th>
<th>Emergency and Critical Care Medicine</th>
<th>Orthopedic Surgery</th>
<th>Ophthalmology</th>
<th>Dermatology</th>
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</thead>
<tbody>
<tr>
<td>• Adrenal tumor-laparoscopic adrenalectomy</td>
<td>• Diagnosis and treatment of severe sepsis/septic shock</td>
<td>• G-CSF therapy for cervical myelopathy and spinal cord injury</td>
<td>• Retinal Photocoagulation</td>
<td>• Diagnosis and treatment of severe skin diseases</td>
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<tr>
<td>• Renal cell carcinoma-laparoscopic nephrectomy</td>
<td>• Treatment with extracorporeal membrane oxygenation (ECMO)</td>
<td>• Rigid anterior fixation with screw for cervical spondylosis</td>
<td>• Vitreous Surgery</td>
<td>• Diagnosis and treatment of skin cancers</td>
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<tr>
<td>• Renal cell carcinoma-robotic-assisted laparoscopic partial nephrectomy</td>
<td>• Critically ill patients in all area, multiple trauma, acute organ dysfunction</td>
<td>• Diagnostic imaging of lumbar spinal roots in vertebral canal stenosis</td>
<td>• Scleral Buckling</td>
<td>• Diagnosis and treatment of autoimmune blister diseases</td>
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<tr>
<td>• Upper tract urothelial carcinoma-laparoscopic nephroureterectomy</td>
<td>(cardiac, pulmonary, renal, hepatic and multiple organ dysfunction)</td>
<td>• Intervertebral fusion with platelet-rich plasma, Total en bloc spondylectomy for malignant spinal tumor</td>
<td>• Intravitreal injection</td>
<td>• Diagnosis and treatment of psoriasis</td>
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<tr>
<td>• Bladder cancer-transurethral resection</td>
<td>• Transportation of patient with artificial organ support (repatriation) (acceptance from the airport and returning to the country of origin)</td>
<td>• Minimum invasive hip arthroplasty</td>
<td>• Photodynamic Therapy</td>
<td>• Diagnosis and treatment of common diseases, from atopic dermatitis to dermatomycosis</td>
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<tr>
<td>• Prostatic cancer-robotic-assisted laparoscopic prostatectomy</td>
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<td>• Diagnosis and treatment of Complex Knee Ligament Injury</td>
<td>• Cataract Surgery</td>
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<td>• Varicocele-Microsurgical Varicocelectomy</td>
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<td>• Platelet-rich plasma injection for ankle disorders</td>
<td>• Glaucoma Surgery</td>
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<td>• Aazoospermia-testicular sperm extraction</td>
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<td>• Diagnosis of entrapment neuropathy and nerve transfer as reconstruction</td>
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<td>• Prostate cancer-diagnosis and treatments</td>
<td></td>
<td>• Percutaneous aponeurectomy for Dupuytren's Contracture</td>
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<tr>
<td>• Bladder cancer-radical cystectomy and ileal conduit</td>
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<td>• Testicular cancer-operation and chemotherapy</td>
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<td>• Penile cancer-operation</td>
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<td>• Obstructive azoospermia-Vasovasostomy</td>
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<td>• Urolithiasis-extracorporeal shock wave lithotripsy</td>
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<td>• Urolithiasis-endoscopic treatment</td>
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<td>• Male infertility-diagnosis and treatments</td>
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<td>Emergency and Critical Care Medicine</td>
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<td>Orthopedic Surgery</td>
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<td>Dermatology</td>
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<tr>
<td>Otorhinolaryngology, Head and Neck Surgery</td>
<td>• Endoscopic surgery for nasal and paranasal tumors including skull base&lt;br&gt;• Immunotherapy for advanced head and neck cancer using NKT cells</td>
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<tr>
<td>Dentistry and Oral-Maxillofacial Surgery</td>
<td>• Tumor of oral cavity (oral cancer), temporomandibular joint arthrosis (temporomandibular disorder)&lt;br&gt;• Inflammation (osteitis of jaw, phlegmon)&lt;br&gt;• Jaw deformity (progenia, prognathia)&lt;br&gt;• Congenital abnormality (cleft lip, alveolus and palate)&lt;br&gt;• Trauma (lacerated wound, tooth dislocation, maxillofacial bone fracture)&lt;br&gt;• Disease of oral mucosa (oral lichen planus)&lt;br&gt;• Cyst, implant treatment</td>
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<tr>
<td>Plastic, Reconstructive, and Aesthetic Surgery</td>
<td>• Hemifacial Microsomia, Crouzon syndrome, Apert syndrome, Pfeiffer syndrome, Treacher-Collins syndrome, Romberg disease, Facial plastic surgery by ostectomy&lt;br&gt;• Cleft lip and palate, Micrognathia, Jaw deformity&lt;br&gt;• Craniosynostosis, Facial scar, Burn Scar&lt;br&gt;• Facial deformity after removal of head and neck cancer, Breast deformity (congenital, acquired)&lt;br&gt;• Lymphangioma of the Extremities, Intractable ulcer, Ischemic necrosis of the Extremities</td>
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<tr>
<td>Clinical Psychiatry</td>
<td>• Schizophrenia-pharmacotherapy&lt;br&gt;• Mood disorder-pharmacotherapy&lt;br&gt;• Anxiety disorder-pharmacotherapy</td>
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<tr>
<td>Neurological Surgery</td>
<td>• Multidisciplinary treatment for Gliomas, including Awake Surgery&lt;br&gt;• Immunotherapy for glioblastoma&lt;br&gt;• Carotid Artery Stenting (CAS) for Carotid Artery Stenosis&lt;br&gt;• Endovascular Surgery for cerebrovascular diseases&lt;br&gt;• Deep Brain Stimulation (DBS) for Parkinsonism and other movement disorders&lt;br&gt;• Endoscopic Trans-sphenoidal Surgery for Pituitary Adenoma, Craniopharyngioma, Meningioma, Rathke's Cleft Cyst, Chordoma and others&lt;br&gt;• Transcranial Surgery for skull base tumors&lt;br&gt;• Surgery for Hydrocephalus including Endoscopic IIIrd Ventriculostomy (ETV)&lt;br&gt;• Foramen Magnum Decompression (FMD) for Chiari Type I malformation&lt;br&gt;• Surgery for spinal cord tumors</td>
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<tr>
<td>Neurology</td>
<td>• Immune mediated neuropathy (Guillain-Barre syndrome, chronic inflammatory demyelinating polyneuropathy, and etc.)&lt;br&gt;• POEMS syndrome&lt;br&gt;• Multiple sclerosis and neuromyelitis optica&lt;br&gt;• Myasthenia gravis&lt;br&gt;• Treatment of blepharospasm, hemi-facial facial spasm, and torticolis with botulinum toxin injection&lt;br&gt;• Disorders of the autonomic nervous system</td>
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<td><strong>Gynecology</strong></td>
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<td>Tumors:</td>
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<tr>
<td>• Uterus-preserving treatment for endometrial cancer with progestin plus metformin</td>
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<td>• Extended radical surgery for ovarian cancer</td>
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<td>• Molecular diagnosis of trophoblastic disease for personalized medicine</td>
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<td>Reproductive endocrinology</td>
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<tr>
<td>• Assisted reproductive technology: IVF-ET with minimal stimulated and natural cycles</td>
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<tr>
<td>• Metroplastic surgery for uterine anomaly: modified Strassmann</td>
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<td>• Tompkins method</td>
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<tr>
<th><strong>Maternal-Fetal Medicine</strong></th>
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<tr>
<td>Pregnancy complications</td>
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<tr>
<td>• Diabetes mellitus, thyroid disease, autoimmune disease, hypertension, renal disease, hematologic disease, neurological cerebral Surgery disease, mental disease, cardiac disease, digestive disease, malignant tumor, pregnancy hypertension, pregnancy diabetes mellitus</td>
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<tr>
<td>Safe management of pregnancy and delivery with each departments, e.g. internal medicine, surgery, anesthesiology, ICU</td>
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<tr>
<td>Fetal abnormality:</td>
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<tr>
<td>• Image diagnosing of abnormality fetus by using ultrasonic sound and MRI</td>
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<tr>
<td>• Fetal Therapy is performed for fetal arrhythmia and Fetus hydrothorax</td>
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<tr>
<th><strong>Pediatrics</strong></th>
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<tbody>
<tr>
<td>Diagnosis and treatment of pediatric allergy, e.g. bronchial asthma, atopic dermatitis and food allergy</td>
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<tr>
<td>Diagnosis and treatment of pediatric autoimmune diseases and primary immunodeficiencies</td>
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<tr>
<td>Diagnosis and treatment of pediatric infectious disease</td>
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<tr>
<td>Diagnosis and treatment of childhood epilepsy, encephalitis, encephalopathy and degenerative brain disease</td>
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<tr>
<td>Diagnosis and treatment of neurological disease, e.g. mitochondrial diseases and Gorlin syndrome</td>
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<tr>
<td>Diagnosis and treatment of pediatric cancer, e.g. leukemia, malignant lymphoma and neuroblastoma</td>
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<tr>
<td>Diagnosis and treatment of pediatric cardiovascular diseases, e.g. congenital heart diseases, myocarditis, cardiomyopathy, and pulmonary hypertension</td>
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<tr>
<td>Diagnosis and treatment of Kawasaki disease</td>
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<tr>
<td>Diagnosis and treatment of pediatric endocrine disease, e.g. short stature, growth disorders, diabetes mellitus, gonadal disorders and thyroid diseases</td>
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<tr>
<td>Diagnosis and treatment of low-birth-weight neonates, sick neonates and neonates who were delivered by mother with complication disease</td>
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<tr>
<th><strong>Pediatric Surgery</strong></th>
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<tr>
<td>Hirschsprung disease</td>
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<td>Intestinal failure</td>
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<td>Inflammatory bowel disease</td>
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<td>Ulcerative colitis</td>
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<td>Crohn's disease</td>
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<td>Neuroblastoma</td>
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<td>Biliary atresia</td>
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<td>Choledochal cyst</td>
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<tr>
<td>Congenital diaphragmatic hernia</td>
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<td>Atresia ani</td>
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<td><strong>Chiba University Hospital</strong></td>
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<tr>
<td><strong>Pediatric laparoscopy and thoracoscopy</strong></td>
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<tr>
<td><strong>inguinal hernia</strong></td>
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<td><strong>hydrocele testis</strong></td>
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<tr>
<th><strong>Radiology</strong></th>
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<tr>
<td><strong>Highest quality radiotherapy (Intensity-modulated radiation therapy for prostate cancer, Head and neck cancer, and gynecologic cancer, stereotactic body radiation therapy, Image-based brachytherapy)</strong></td>
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<tr>
<td><strong>Most advanced imaging equipment in all modalities (MR, CT, angiography, ultrasound and nuclear medicine)</strong></td>
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<tr>
<th><strong>Pathology</strong></th>
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<tr>
<td><strong>Expert diagnosis in pulmonary diseases, e.g. lung cancers and non-neoplastic pulmonary diseases</strong></td>
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<tr>
<td><strong>Anatomic pathology second opinion consultation service in virtually all specialties</strong></td>
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<tr>
<th><strong>General Medicine</strong></th>
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<tbody>
<tr>
<td>Diagnosis of various health problems including unexplained symptoms as well as common conditions by comprehensive approach</td>
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<tr>
<th><strong>Cardiovascular Interventions</strong></th>
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<tbody>
<tr>
<td>Coronary Angiography and Percutaneous Coronary Intervention</td>
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<tr>
<th><strong>Medical Oncology</strong></th>
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<tbody>
<tr>
<td><strong>Treatments with anticancer drugs approved for clinical use only in Japan</strong></td>
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<tr>
<td><strong>Clinical trials with new agents for lung cancer</strong></td>
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<tr>
<td><strong>Clinical trials with new agents for cancer of primary unknown origin</strong></td>
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<tr>
<td><strong>Clinical sequencing for malignant solid tumors</strong></td>
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<td><strong>Cross-sectional care for malignant solid tumors</strong></td>
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<tr>
<td><strong>Anticancer therapy for rare cancers</strong></td>
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<tr>
<th><strong>Clinical Genetics</strong></th>
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<tr>
<td><strong>Hereditary Breast and Ovarian Cancer</strong></td>
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<tr>
<td><strong>Spinocerebellar Degeneration</strong></td>
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<td><strong>Long QT syndrome</strong></td>
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<td><strong>Lynch syndrome</strong></td>
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<td><strong>Myotonic dystrophy</strong></td>
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<tr>
<td><strong>Familial Mediterranean fever</strong></td>
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<tr>
<td><strong>Birt-Hogg-Dubé syndrome</strong></td>
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<td><strong>Spinal and Bulbar Muscular Atrophy</strong></td>
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<td><strong>Huntington disease</strong></td>
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<td><strong>Marfan syndrome</strong></td>
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<td><strong>Charcot-Marie-Tooth disease</strong></td>
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