

Renji Hospital

Strong Expertise for Gentle Care



OVERVIEW

Founded in 1844, Renji Hospital Shanghai Jiao Tong University School of Medicine, has been the first western medicine hospital since the opening of Shanghai.

During its 177 years in operation, Renji Hospital has always adhered to the motto of “Benevolence to help the world, curing diseases and saving lives,” and has been growing steadily. The hospital is composed of East, West, South, and North campuses, and the Shanghai Cancer Research Institute. It is a comprehensive 3A hospital (the highest ranking for a hospital in China) with a complete range of disciplines, integrating medical treatment, teaching, and scientific research.

By the end of 2021, Renji Hospital covered a total of an 150,000 m² area, with an expansion of nearly an 400,000 m² area. There are 54 clinical medical technology departments, 2,750 approved beds, and 4,475 formal employees, including 631 experts with chief or associate professional titles, 146 doctoral supervisors, and 177 master supervisors.

In 2021, Renji Hospital completed 6.265 million outpatient and emergency visits, 207,123 discharges, 94,046 inpatient operations, 23,799 minimally-invasive surgeries, and 36,027 ambulatory surgeries, with an average length of stay of 5.1 days of hospitalization.

During the course of 2021, the hospital received 440 scientific research projects of various kinds, with total funding of nearly 271 million yuan and 88 authorized patents. SCIE (science citation index expanded) included 635 papers, of which 89 had an impact factor (IF) more than 10. In the Top 100 “Nature Index” list of global medical institutions this year, released by Springer Nature Group, Renji Hospital ranked 22nd in the world and the first in China (ranked by Fractional Count).

SPECIALTIES OF EXCELLENCE

Renji Hospital, through constant development and sustained growth, has been the leading hospital in China for many disciplines, including gastroenterology, rheumatology, anesthesiology, urology, reproductive medicine, and liver surgery — some of which have reached an international, advanced level.

1 Department of Gastroenterology

Renji Hospital Department of Gastroenterology (Shanghai Institute of Digestive Diseases) is a national key discipline and a national key clinical specialty. There are 21 chief physicians, who have formed characteristic subspecialties such as gastrointestinal tumors, H.pylori and its related diseases, chronic non-viral hepatitis, inflammatory bowel disease, functional gastrointestinal diseases and digestive psychosomatic diseases, chronic liver diseases, and endoscopic diagnosis and treatment, etc.

The annual number of outpatient visits exceeds 600,000 person-times; the annual number of endoscopic diagnosis and treatment exceeds 200,000 person-times; and the annual number of inpatients exceeds 9,500 person-times.

Presently, there are 14 doctoral supervisors within the discipline, who have undertaken nearly 200 national scientific research projects, and published 63 SCI papers (IF more than 10) as corresponding authors.





2 Department of Rheumatology

The Department of Rheumatology at Renji Hospital was founded in 1979 and served as a prestigious rheumatology center in China since. Its translational medicine reputation is well recognized, with an infrastructural combination of Shanghai Institute of Rheumatology and Shanghai Clinical Research Center. The annual number of discharged patients exceeds 5,000, and the majority are challenging and critical patients referred from the southeast region of China; the annual number of outpatient visits reaches 250,000, which is the largest outpatient volume among rheumatology specialties in China general hospitals.

High-quality care is provided, especially for systemic lupus erythematosus, dermatomyositis, inflammatory arthritis, and other rheumatic diseases. Professor Shen Nan, the leading investigator and director of the Institute of Rheumatology, also serves as the deputy editor of *Arthritis and Rheumatology*, and the deputy editor of Dubois' Lupus textbook. His recent lupus molecular genetics research was published in *Cell* (2019), *Nature Genetics* (2017), and other famous journals. Current Department Chief Dr. Ye Shuang has made

great achievements in clinical research such as MDA5 dermatomyositis-interstitial lung disease (*NEJM*, 2019) and immune-metabolic treatment to prevent a flare of Lupus (*Lancet Rheumatol.*, 2020).

3 Department of Liver Surgery

Renji Hospital Department of Liver Surgery, also known as the Shanghai Organ Transplantation Institute, is a national key clinical specialty of organ transplantation, national organ transplantation training base, Shanghai Liver Transplantation Quality Control Center, and the largest liver transplants center in the world.

The Liver Surgery program at Renji Hospital specializes in adult and pediatric liver transplants. It is a clinical and translational medical center integrating comprehensive diagnosis and treatment, whole-process management, basic and clinical research of end-stage liver disease, and liver tumors. More than 6,000 liver transplants have been successfully completed in Renji Hospital, with an annual number of liver transplants ranking first nationally for 11 consecutive years. Among them, more than 2,700 cases

of pediatric liver transplants have been completed, with excellent outcomes in patient survival (1-year and 5-year survival rates are 94% and 91%, respectively).

4 Department of Urology

Renji Hospital Department of Urology is a key clinical specialty, not only in Shanghai, but also in all of China. It is also the only affiliated unit of the Clinical Quality Control Center of Urology in Shanghai.

The discipline has established distinctive subspecialties such as urinary tumors, urinary calculi, prostate diseases, female urinary control, pediatric urinary and urinary system reconstruction, urinary emergency, and andrology. The annual number of outpatient visits has exceeded 400,000, and the annual number of operations has exceeded 20,000, of which more than 60% are major and super major operations, and more than 5,000 operations for kidney cancer, bladder cancer, and prostate cancer have been carried out annually.

5 Department of Anesthesiology

Renji Hospital Department of Anesthesiology is a key discipline in

Shanghai and the Shanghai Engineering Research Center of Peri-operative Organ Support and Function Preservation. The annual number of anesthetic procedures exceeds 160,000, ranking No.1 in the Shanghai area for many years. The number of anesthetics per year for liver and kidney transplantation is the largest in China, and the anesthetic strategy of ambulatory surgery in Renji is a national leader in the field.

The department has always put a lot of effort in basic science and clinical research, mainly in the field of the mechanisms underlying chronic pain and the peri-operative support of important organs (e.g., liver, brain, and lung) in the elderly. Within the past five years, the department has achieved 48 National Natural Science Foundations, which ranks No.1 in all anesthesiology departments in China, with more than 80 SCI papers being published in reputable journals such as *Cell Research*, *Science Translational Medicine*, and *Nature Communications*.

6 Department of Reproductive Medicine

Renji Hospital Department of Reproductive Medicine is the first one to carry out clinical and scientific research on assisted reproductive technology (ART) in Shanghai. The center has more than 400,000 outpatient visits per year and more than 10,000 test-tube babies per year. The success rate of ART treatment has reached an internationally leading level, ranking first in Shanghai. In 2019, it became the first center in China to pass the special international certification of the Reproductive Technology Accreditation Committee (RTAC) in ART.

Reproductive medicine has established Shanghai Assisted Reproduction and Eugenic Technology Center. Over the past five years, more than 70 new scientific research projects have been added, including more than 40 national projects, with a total funding of nearly 60 million yuan; eight patents have been authorized, more than 300 papers have been published in prestigious international journals, such as the *New England Journal of Medicine*, *Lancet*, and *PNAS*. Multicenter prospective clinical research has been published as well.

GOING GLOBAL

As an essential gateway into an internationalized hospital, Renji Hospital International Medical Service provides patients in both China and abroad with high-quality medical and nursing services that are patient-centered and internationally certified by a third party in multiple languages. Foreign patients coming to the hospital include the United States, Britain, Germany, Norway, Denmark, Switzerland, Spain, Australia, Russia, India, and Singapore, among others. In accordance with international standards and to provide premium medical services, Renji Hospital International Clinic and Renji Hospital Reproductive Medicine Center passed DNV GL international certification in April 2018 and January 2019, respectively. In 2021, the number of international outpatient visits reached 15,359.

Renji Hospital actively implements the "The Belt and Road Initiative". In 2019, the hospital signed a strategic cooperation agreement with the University of Malaya Medical Center (UMMC) to engage in an international training program on living donor liver transplantation for children. So far, it has saved more than 30 Malaysian children with biliary atresia. In the future, Renji plans to establish the "Asia Business Department of Renji Hospital" in Malaysia, with pediatric liver transplantation technology as a pilot, which will jump-start an open platform mixing with domestic high-quality medical resources, spread out Southeast Asia, and constantly expand the influence of the "Shanghai Brand."

Renji Hospital also has its own characteristics in clinical medical education and teaching reform. Since its formal establishment in October 2014, Ottawa-Shanghai Joint School of Medicine has sent students to the University of Ottawa for a seven-week summer program during their first summer vacation from school. In 2015, Renji Hospital became an overseas teaching hospital of the University of Ottawa (uOttawa) and has sent more than 150 clinical teachers to uOttawa for teaching and training.

In January 2019, the hospital established the Shanghai Sino-France surgery college in cooperation with the University of Strasbourg Faculty of Medicine, and other institutions, comprised of 13 surgical specialties and integrating the training objectives and standards of Sino-French surgical specialists — creating an international platform for surgical training, technical research, and innovative exchanges.

In recent years, Renji Hospital has continuously improved registration, practiced support systems and procedures for foreign physicians, and has successively introduced internationally renowned physicians from Canada, the United States, Italy, Germany, and other countries. The hospital places essential training for international talents, subsidizing about 50 employees to receive various kinds of training and learning overseas each year.

MISSION

Renji Hospital will aim for the highest international standards at premium levels and morph itself into an intelligent, and international medical center with strong international competitiveness to become a model hospital for the world-class medical community in Asia.