

Central Clinical Facilities

Clinical Laboratory

<http://lab-tky.umin.jp/>

Our main duty is to provide the high-quality results of laboratory tests. We also emphasize the basic research on laboratory automation and standardization, development and improvement of laboratory tests, and pathophysiological analyses through laboratory tests, as follows.

- Laboratory automation system
- Clinical application of genetic analysis of leukemia and drug response genes
- Analysis of bioactive substances, and its application to laboratory medicine
- Analysis of the cardiac functions using ultrasound
- Relationship between the respiratory function and various pathophysiological conditions
- Investigation of brain function using magnetoencephalography



Laboratory automation system

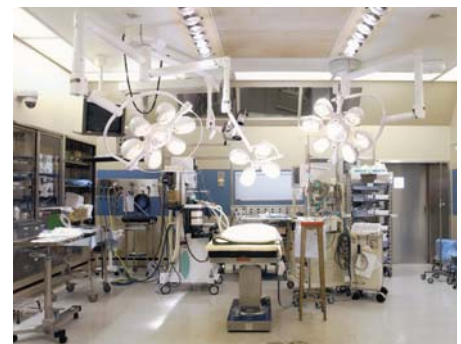
Surgical Center

<http://www.h.u-tokyo.ac.jp/patient/depts/syujutsu.html>

Operating rooms were centralized as a surgical center for the first time in Japan, in the surgical ward building of University of Tokyo Hospital on July 1955. The surgical center moved to the new central building on January 1988. In July 2001, the branch hospital of our university located in Mejiro was closed and joined to our University Hospital located in Hongo. Furthermore, a new ward building was opened in October 2001. Since then, the number of operations has been remarkably increasing. Another new central building including new operating rooms will be constructed in fall 2006. A total of 9,868 operations were performed in the year 2008.

Teaching activities include lectures to the undergraduate and postgraduate medical students as well as nursing staffs and medical electronics engineers, regarding aseptic techniques, sterilization methods, disinfection methods, prevention of perioperative infections, humoral and cellular responses to trauma and shock, training of handwashing and gown techniques.

- Safety management in the operating rooms
- Efficient management of the operating rooms
- Cleaning, Disinfection and Sterilization
- Environmental control in the operating rooms
- Improvement of cost-effectiveness in the management of surgical center
- Perioperative infection control
- Precautions of accidental troubles in handling surgical instruments and medical devices
- Development of new surgical instruments and medical devices
- Three-dimensional processing of visual information



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- Major information services
 - Electronic Library for Biomedical Sciences (ELBIS)
 - Internet Data and Information Center for clinical and epidemiological research (INDICE)
 - Evaluation system of Postgraduate Clinical training (EPOC)
 - Dental training Evaluation and taBUlation sysTem(Debut)
- Major research activities
 - Health communication
 - Science communication
 - Information systems for clinical and epidemiological research
 - Network security

