

Department of Clinical Laboratory

1. Staffs

General Manager (Junior Associate Professor)

Naoko Tojo

Associate Manager (Associate Professor)

Shuji Tohda

Assistant Professor

Naomi Murakami

Tadashi Kanouchi

Ryoko Azuma

2. Purpose of Education

Main purpose of education in the department is to provide the students opportunities to study the clinical laboratory medicine and medical technology. The staffs lecture on clinical laboratory medicine and give technical training of clinical laboratory tests to not only the medical students and medical technologist students in the faculty of medicine of the university but also students in the another vocational schools for medical technologists.

Besides the students, four residents of the university hospital of medicine had a general training for clinical laboratory medicine, including ultrasonography. A few hands-on seminars of Gram staining and abdominal ultrasonography have been held for some young doctors in the hospital.

3. Research Subjects

- 1) Evidence based laboratory medicine
- 2) Standardization of respiratory function tests.
- 3) Development of molecular diagnostic tests for hematological diseases.
- 4) Development of electrophysiological diagnostic tests for peripheral neuropathies.
- 5) Development of diagnostic tests using transcranial magnetic stimulation for neurological diseases.

4. Clinical Services

High quality and advanced laboratory tests are being speedily done in the clinical laboratory all day all the time. Appropriate blood products are also provided from the laboratory in the night time, in cooperation with blood transfusion service of the hospital. Items of emergency laboratory tests have been in increase, including smear test for tubercle bacillus and cell counting of the cerebrospinal fluid. The results of physiological examinations are online reported quickly and correctly. The information on sensitivity to antibiotics of the pathogens in each ward is also provided online.

5. Publications

Original Article

1. Azuma RW, Kadowaki T, El-Saed A et.al. Associations of D-dimer and von Willebrand factor with atherosclerosis in Japanese and white men. *Acta Cardiol.* 2010 ; 65(4) : 449-56.
2. Kawara T, Narumi J, Hirao K, Kasuya K, Kawabara M, Tojo N, Isobe M, Matsuura M. Symptoms of atrial fibrillation in patients with and without subsequent permanent atrial fibrillation based on retrospective questionnaire survey. *Internal Heart J* 2010;51(4):242-246.
3. Okuhashi Y, Nara N, Tohda S. Effects of gamma-secretase inhibitors on the growth of leukemia cells. *Anticancer Res.* 2010 ; 30 : 495-498.
4. Ishigaki T, Sasaki K, Watanabe K, Nakamura N, Toyota S, Kobayashi H, Tohda S. Amplification of IGH/CCND1 fusion gene in a primary plasma cell leukemia case. *Cancer Genet Cytogenet.* 2010 ; 201 : 62-65.
5. Okuhashi Y, Itoh M, Arai A, Nara N, Tohda S. Gamma-secretase inhibitors induce erythroid differentiation in erythroid leukemia cell lines. *Anticancer Res.* 2010 ; 30 : 4071-4074.