

Emergency and Medical Intensive Care Unit

Director MATSUDA, Naoyuki (Professor)

Covering all acute-phase management

The Emergency and Medical ICU (EM-ICU) responds swiftly to acute clinical conditions and provides advanced acute-phase management. In addition to treating primary conditions, we provide basic management, such as reduction of systemic inflammation, acceleration of regeneration, infection control, and nutritional management, to ensure appropriate management and prevent multiple organ failure.

Medical Care System

There are 10 beds in total. Open seven days a week, the department is staffed by emergency medicine specialists and ICU specialists. It is a highly independent, completely closed ICU. A full-time doctor specialized in emergency medicine / ICU is assigned as the attending physician for each patient in the ICU. This helps achieve acute-phase medical services with a consistent treatment course. Professors, associate professors, lecturers and assistant professors give appropriate guidance to the attending physicians.

Target Conditions

The ICU covers adults and children with conditions requiring acute-phase systemic management, such as disturbed consciousness or coma, acute respiratory failure or acute exacerbation of chronic respiratory failure, shock, acute drug intoxication, serious metabolic disorder (e.g., hepatic or renal dysfunction, diabetic ketoacidosis or environmental disorder), multiple trauma, postresuscitation encephalopathy and severe sepsis.

Features

Our results in treating systemic inflammatory response syndromes such as sepsis and disseminated intravascular coagulation syndrome are far better than the world average. The ICU is staffed by personnel highly skilled in acute-phase management and handling acute clinical conditions systematically and comprehensively from multiple perspectives.



Clinical Results

The ICU opened in May 2011. The number of beds was increased to six on June 1, 2011 and to ten on October 1, 2011. The ICU is designed to handle more than 400 urgent cases in serious conditions a year.



Specialized Outpatient Clinic

At the Emergency and Medical Intensive Care Unit, we are considering how to build a rapid response system in case of an acute deterioration of patients, by immediately detecting such condition and promptly transferring the patient to our unit.



Other Undertakings

We provide state-of-the-art acute-phase treatment, which is a strength of university hospitals. We understand the global level of evidence-based medicine (EBM), and possess world-leading knowledge about refractory cases. Clinical research on such treatments is carried out after obtaining approval from the Ethics Committee and informed consent from the patients.

Department of Blood Purification

Director TSUBOI, Naotake (Lecturer)

Undertaking blood purification therapy that responds to the increasing demand

The department takes charge of the hospital's blood purification therapy in collaboration with the ICU.

Medical Care System

There are 10 beds in the department. The department is open on Monday, Wednesday, and Friday for a morning and afternoon shift, and Tuesday, Thursday and Saturday for a morning shift, which are handled by doctors, clinical technicians and exclusive nurses. Various blood purification therapies such as PE, DFPP, L/G-CAP in addition to HD/HDF are also performed. The specialist nurses also give guidance to outpatients on peritoneal dialysis (CHPD).

Target Disease

Blood purification therapy is administered for diseases such as hemodialysis for patients with end-stage kidney disease, surgical perioperative dialysis of patients on maintenance hemodialysis, or acute kidney failure or hepatic failure due to medicine, an operation, auto immune disease or sepsis, inflammatory Crohn's disease, and diseases of the nervous system.

Features

Only our hospital performs highly-specialized and advanced medical services protocol for ICU, cardiac surgery, organ transplantation, marrow transplant, cancer chemotherapy for severe infections, multi-organ failure, cardiovascular system, as well as for malignant diseases and acute blood purification for severe multiple complications.

Clinical Results

Total number of cases: blood dialysis 2,300 sessions, plasma exchange 60 sessions, leukocyte reduction 180 sessions, and new dialysis patients totaled 50 (all numbers are approximate figures in 2011)



Other Undertakings

The department started Tuesday, Thursday and Saturday shifts in May 2009 to meet the increasing demand. In October 2009, the department was renamed Department of Blood Purification. The department actively undertakes research on devices, medicines, and equipment relating to the total blood purification therapy, as well as establishment of safe dialysis for acute patients.

