Anesthesiology

1. Staffs and Students (April, 2012)

Professor
Koshi MAKITA

Associate Professor
Koichi NAKAZAWA

Junior Associate Professor
Tokuiro UCHIDA, Jiro KURATA

Assistant Professor
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Graduate Student
Wei FAN, Yutaka MIURA, Qi YU

Seiji ISHIKAWA, Maiko SATOMOTO, Mamoru YAMAMOTO, Eri IKEDA, Sonomi TANAKA, Fukami NAKAJIMA, Hiroyuki ITO, Hiroyuki ITO

2. Purpose of Education

The Department of Anesthesiology is an integral part of the health care system providing valuable perioperative services as well as pain relief and critical care management. Our goals of education are understanding clinical pathophysiology and clinical pharmacology, which are essential for daily clinical activities to treat patients with critical illness undergoing major surgery and to relieve patients suffering from severe pain.

3. Research Subjects

1) Discovering most effective ventilation methods for injury lungs.
2) Therapeutic mechanism of mesenchymal stem cell for lung injury
3) Studies on the central nervous system effects of general anesthetics by human electrocorticogram and functional neuroimaging.
4) Studies on the mechanisms of cerebral pain processing and pain chronification by human functional magnetic resonance imaging and positron emission tomography.
5) Studies on ventilator mechanics and remote effects of protective one-lung ventilation during thoracic surgery.
6) Studies of epidemiology, early diagnosis, prevention and therapeutics of perioperative acute kidney injury.
7) Studies on the effect of anesthetics on the developing brain.

4. Clinical Services

Service of the department of anesthesiology covers perioperative management of surgical patients and pain relief services for patients suffering severe chronic pain.

5. Publications