

Anesthesiology

1. Staffs and Students (April, 2010)

Professor	Koshi MAKITA	
Associate Professor	Koichi NAKAZAWA	
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Assistant Professor	Akio MASUDA,	Megumi Ohata,
	Hiroyuki KOBINATA,	Hiroyuki ITO, Eri IKEDA,
	Yoriko DATE,	Takashi HAKUSUI
Hospital Staff	Chihiro TAKISHIMA,	Sonomi TANAKA,
	Hiroto YAMAMOTO,	Yusuke ITO,
	Takafumi Omori,	Koji KIDO,
	Ken SHINODA,	Arisa TOMOZAWA,
	Akihiro HARAMO,	Mariko HISAMITSU,
	Hiroki YAMAMOTO,	Yudai YAMAMOTO
Graduate Student	Wei FAN,	Naoko YAMAKAWA,
	Fukami NAKAJIMA,	Yutaka MIURA

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) Pathophysiology of shock status
- 2) Acute lung injury
- 3) Partial liquid ventilation and lung protective ventilation
- 4) Pulmonary circulation
- 5) Physiology related with stellate ganglion block
- 6) Pathophysiology of brain ischemia
- 7) Perioperative management

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

- 1) Ishikawa S, Ohata M, Ishibashi T, Makita K. Relationship between stroke volume variation and pulse pressure variation during esophagectomy. *Anesth Resus* 2010; 46: 83-87.
- 2) Ishikawa S, Shirasawa S, Fujisawa M, Kawano T, Makita K. Compressing the non-dependent lung during one-lung ventilation improves arterial oxygenation, but impairs systemic oxygen delivery by decreasing cardiac output. *J Anesth* 2010; 24: 17-23.
- 3) Matsuzawa Y, Nakazawa K, Yamamura A, Akashi T, Kitagaki K, Eishi Y, Makita K. Airway pressure release ventilation reduces the increase in bronchoalveolar lavage fluid HMGB1 levels and lung water in experimental ARDS induced by lung lavage. *Eur J Anaesthesiology* 2010;27:726-733
- 4) Nakazawa K, Ohata M, Makita K. Failure of double lumen tube cuff deflation on the cuff leak test. *J Cardiothorac Vasc Anesth*, 2010;24:1025,
- 5) Takei T, Nakazawa K, Ishikawa S, Uchida T, Makita K. Cardiac arrest in the left lateral decubitus position and extracorporeal cardiopulmonary resuscitation during neurosurgery: a case report. *J Anesth* 2010; 24: 447-451.