Anesthesiology and Clinical Physiology

1. Staffs and Students (April, 2012)

Professor Haruhisa Fukayama
Associate Professor Hikaru Kohase
Junior Associate Professor Shigeharu Jinno
Assistant Professors Fumihiro Yoshikawa, Tomoka Matsumura
Hospital Staffs Kazumasa Kubota, Yuka Oono, Youhei Fukumori, Yukiko Baba, Haruka Haida, Reina Ichikawa, Yoko Takusagawa.
Graduate Students Atsushi Nakajima, Kanako Saji, Tomoko Ebisawa–Matsushita, Takuya Funayama, Katsuhiro Matsumoto, Yoko Sasaki.
Research Students Manami Yajima, Hironari Ando.
Secretary Natsu Sato

2. Purpose of Education

The goal of the section is to give to the undergraduate students; the knowledge and techniques of general anesthesia, local anesthesia, systemic management of medically compromised patients, and pain management of clinic in the oral and maxillofacial regions. Within a fiscal year the lectures include 1) general and local anesthesia, 2) psychosedation, 3) cardiopulmonary resuscitation. General anesthesia is composed of physiology of respiration and circulation, pharmacodynamics of inhalation anesthetics, intravenous anesthetics, and muscle relaxants. Psychosedation includes theory and technique for dentally phobic patients and medically compromised patients. Since local anesthesia is often used in routine dental procedures, pharmacology of local anesthetics, techniques and complications are given to the undergraduate students. Cardiopulmonary resuscitation has principles of CPR, updated guidelines of CPR, in addition to simulated training. Out training systems also include infiltration anesthesia, conduction anesthesia, and nitrous oxide inhalation sedation.

3. Research Subjects

1) Noninvasive drug delivery system
2) Development of local anesthesia techniques for dentistry
3) Neuropathic pain in oral and maxillofacial regions
4) Diffuse noxious inhibitory control
5) Clinical applications of psychosedation and systemic management

4. Clinical Services

1) Systemic management of medically compromised patients using psychosedation
2) Ambulatory anesthesia service for disabled patients
3) Emergencies in the hospital
4) Low invasive local anesthesia

5. Publications

Original Article


Congress


Books


Editorial Comment