Anesthesiology and Clinical Physiology

1. Staffs and Students (April, 2010)

Professor Haruhisa FUKAYAMA
Associte Professor Hikaru KOHASE
Junior Associate Professor Shigeharu JINNO
Adjunct Professor Syouzou MUROGA, Hiroshi SEHATA, Hisa OKUMURA, Atsuko SUZUKI, Masaaki MIURA, Takehiko IIJIMA, Zenkou Nakamura
Assistant Professor Fumihiro YOSHIKAWA, Tomoyuki MIYAMOTO, Ryo WAKITA
Graduate Student Yukiko BAB, Haruka HAIDA, Kanako SAJ, Atsushi NAKAJIMA, Tomoko MATSUSHITA, Takuya FUNAYAMA, Kenta KIKUCHI
Hospital Staff Aya YOSHINO, Shizuka ANDOU, Tatsuo SANADA, Tomoka MATSUSHITA, Youhei FUKUMORI, Kazumasa KUBOTA, Yusuke KURAMOTO, Sairi OHGAMI, Hitomi KUNIMORI, Kiyoshi KAMIYA, Kenzo MAKINO, Kunio AIKAZI
Research Student Yuko KISHI, Natsumi HIRAI, Reina ICHIKAWA, Katsunori MOTOHASHI, Chikako OHE, Hitomi IZUMIKAWA, Yoko IKEDA, Taeka HIRASAWA, Ayako MIZUTANI, Yuki SATO, Yuichi SATO
Adjunct Professor of Graduate School Seiichi KATO, Tomotada HOKAZONO, Keiko FUJII
Visiting Clinical Instructor Nobuyuki KONDOU, Kanae SHIMOMACHI
Resident Wakako Sumimoto, Yoriko IKEDA, Takashi KOBAYASHI
Secretary Natsu SATO

2. Purpose of Education

Main objective of Anesthesiology and Clinical Physiology in the graduate course is to provide students essential knowledge and skills of general and local anesthesia, management of medically compromised patients in dental clinical setting and oro-facial pain treatment. The subjects including general anesthesia local anesthesia for dentistry, sedation methods, CPR training are scheduled in the 5th grade students. The students learn respiratory and cardiovascular physiology, nature of general anesthetics, local anesthetics, intravenous anesthetics, muscle relaxant agents. As psychosedation is frequently used in dental clinical setting, the students learn and acquire the theory and technical aspects of sedation. It also includes the pharmacological and complicated aspects of local anesthetics and expertise local anesthesia using the conduction block and infiltration anesthesia in oral region. The theory of CPR and AHA CPR guidelines, and practice are also given the BLS, with ACLS sequence.

3. Research Subjects

1) Non-invasive drug delivery system
2) New aspects of local anesthesia in dentistry
3) Mechanism of neuropathic pain and its treatments
4) Diffuse noxious inhibitory control, or, conditioned pain modulation
5) Clinical research of psycho-sedation and systemic management in dental clinical setting.
4. Clinical Services
Anesthesiology and clinical physiology provides general anesthesia and sedation for oral maxillofacial surgery, managements of medically compromised patients using psychosedation, daycare general anesthesia for handicapped patients, emergency treatment in the dental hospital.

5. Publications

Original Article

6. Academic activities
1. Fukayama H: Difference in the degree of infiltration of local anesthesia according to the site of injection. 29th Myanmar Dental Conference and 10th FDI-MDA Joint Educational Meeting. Yangon, Myanmar. January 2010