

Department of Anesthesiology

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General Summary

The functions of the Department of Anesthesiology are to provide quality patient care, to teach, and to perform research in perioperative medicine, intensive care medicine, and comprehensive pain management. In 2018 we made further advances and great achievements with the support of our faculty, institutional administration, and the Dean of The Jikei University. Below we highlight some of our research achievements in 2018.

Research Activities

Research continues as a growing and important component of the department's activities. The department is committed to enhancing academic productivity and resources by dedicating time to research and granting clinical access to research cases.

The investigators have been successful each year in obtaining peer-reviewed research grants. In 2018, Grants-in-Aid for Scientific Research were awarded to 5 members of our faculty. The department continues to build on the strengths of several outstanding programs: cardiovascular anesthesia, thoracic anesthesia, pediatric anesthesia, regional anesthesia, neuroanesthesia, obstetric anesthesia, intensive care medicine, and comprehensive pain management.

Our faculty and residents were both well represented at the annual meetings of the Japanese Society of Anesthesiologist in Yokohama and of the American Society of Anesthesiologists in San Francisco. In addition, members of the department continue to be invited as visiting professors or guest speakers at national and international meetings.

Listed below are some of the ongoing research projects in which the principal investigators are faculty members of the Department of Anesthesiology.

Doctors Uezono and Kida have been investigating the protective effects of sedatives in ischemic encephalopathy. Doctor Shimoyama's research has been focused on the mechanism of mitochondria dysfunction-induced peripheral nerve injury. She has also been working to elucidate the mechanism of chemically induced neuropathic pain, which may

lead to new therapeutic interventions.

In clinical medicine, several principal investigators from the Department of Anesthesiology deserve mention. Doctor Kondo has been interested in the postoperative pain treatment service. Doctor Uchino continues to be active in clinical research in the intensive care unit and has been extremely productive in the field of acute kidney injury. As a new faculty member, Dr. Sakurai was recruited to establish an obstetric anesthesia program. He has published many articles related to this field. As an interim chief of the chronic pain clinic, Dr. Uezono has been establishing a new practice of pain management with more invasive procedures, such as spinal cord stimulation. Members of the pain clinic have continued to play a pivotal role in establishing practice guidelines for patients with various types of chronic pain.

The appended bibliography of the department shows that a wide range of investigative and scholarly activities were conducted over the past year.

Publications

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