

Advanced Clinical Research Center

Division of Anesthesia and Surgical Homeostasis

侵襲防御医学分野

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Established in April 2024, this division enhances the Department of Anesthesiology at IMSUT Hospital, focusing on delivering superior perioperative patient care. While clinical duties remain the current priority, future plans include initiating clinical research and contributing to translational research in collaboration with other hospital departments and divisions to improve patient outcomes and advance medical care.

Introduction

This division was newly established in April 2024 to enhance the activities of the Department of Anesthesiology at IMSUT Hospital and to elevate the hospital's ability to deliver superior perioperative patient care. The field of anesthesiology covers a wide range of physiological responses to surgical stimuli and the strategies to protect the body against them. Examples include the management of sedation, respiration, circulation, pain, coagulation, metabolism, and more. Our mission is to establish a robust foundation for delivering optimal anesthetic and intensive care when necessary, not only to general surgical patients but also to those undergoing innovative therapeutic interventions at IMSUT Hospital.

Clinical activity

The Department of Anesthesia at IMSUT Hospital

managed over 400 cases of general anesthesia for major surgical procedures. The role of anesthesiologists encompasses preoperative patient evaluation, intraoperative anesthetic management, and postoperative pain management, thereby ensuring comprehensive care and optimal patient outcomes. For further details, please refer to the section on the Department of Anesthesia at IMSUT Hospital.

Future Prospects

At present, most of our efforts are focused on clinical duties. In the near future, we plan to initiate clinical research to further enhance our activities and pursue better patient outcomes in collaboration with other surgical departments within the hospital. Additionally, we are preparing to contribute to translational research at IMSUT in partnership with other divisions to advance innovative medical practices.

Publications

Kato (Araki) Y, Kawamura G, Ushio M, Bougaki M, Uchida K. Shivering During Transurethral Ureterolithotripsy Predicted Postoperative Sepsis: A Case Report. *Cureus*. 17(11):e97924, 2025.

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全身麻酔による帝王切開 母児双方のことを総合的に考えよう *LiSA* メディカル・サイエンス・インターナショナル 32(4): pp395-397, 2025.

坊垣昌彦. 【実践! 無痛分娩 安全な分娩管理のポイント】
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