

## Department of Emergency Medicine

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### General Summary

1. Education system for junior residents in emergency medicine
2. Establishing a database of severe traumatic brain injury in Japan
3. The etiology of syncope
4. Research on the laboratory assessment of heart attack in the emergency room
5. Managing the course of immediate cardiac life support
6. Providing logistical support to the Japan Boxing Commission

### Research Activities

1. Supervision and development of ultrasound devices in the diagnosis and treatment of cerebrovascular disorders
2. Director of the Japan Neurotrauma Data Bank Committee
3. Prognostic value of heart fatty acid-binding protein for patients with chest symptoms in the emergency room
4. Research committee on higher cerebral function after traumatic brain injury
5. Research committee on impact biomechanics in automobile accidents (Society of Automotive Engineers of Japan, Inc.)
6. Published a revised edition of *Guidelines for the Treatment and Management of Severe Head Injury* (The Japan Society of Neurotraumatology)
7. Research group on traumatic intracranial hypotension
8. Management of Japan Advanced Trauma Evaluation and Care course

### Publications

**Murakami A<sup>1</sup>, Takasugi H<sup>1</sup>, Ohnuma S<sup>1</sup>, Koide Y<sup>1</sup>, Sakurai A<sup>2</sup>, Takeda S, Hasegawa T<sup>3</sup>, Sasamori J<sup>3</sup>, Konno T<sup>3</sup>, Hayashi K<sup>1</sup>, Watanabe Y<sup>3</sup>, Mori K<sup>3</sup>, Sato Y<sup>1</sup>, Takahashi A<sup>3</sup>, Mochizuki N<sup>2</sup>, Takakura N<sup>1</sup>** (<sup>1</sup>*Tokyo Res Lab*, <sup>2</sup>*Natl Cardio-vasc Ctr Res Inst*, <sup>3</sup>*Fukushima Res Lab*, <sup>4</sup>*Osaka Univ*). Sphingosine 1-phosphate (S1P) regulates vascular contraction via S1P3 receptor: investigation based on a new S1P3 receptor antagonist. *Mol Pharmacol* 2010; **77**: 704–13.

**Otani K, Kasuga Y, Kimura Y, Mukaide M, Yanai H, Koyama T, Fujise K.** Hepatitis B sur-

face antigen is a better monitor of infectivity compared with antibody to hepatitis B core antigen in hemodialysis patients. *Ther Apher Dial* 2010; **14**: 434–5.

**Endo S, Okuno K, Kobayashi H, Ogawa T, Makuuchi H.** Diagnostic multidetector-row computed tomography usefulness in intimal carotid artery cervical stab wound: a case report (in Japanese). *Rinsho Geka* 2010; **65**: 1159–62.

**Kishimoto K, Hatano T, Egawa S, Miyake R, Ohasi K, Koyama T.** Two cases of severe renal injury where silo closure was effective (in Japa-

nese). *Rinsho Hinyokika* 2010; **64**: 1017-20.

### Reviews and Books

**Ogagwa T.** Current status of emergency medical service in Japan (in Japanese). *Shojinkai Igakushi* 2010; **49**: 1-8.

**Okuno K, Ohashi K, Ogawa T.** Anticonvulsant drugs (in Japanese). *Shokaki Geka* 2010; **33**: 726-30.

**Okuno K.** Intracranial pressure management of severe traumatic brain injury (in Japanese). *Kyukyu Igaku* 2010; **34**: 1795-9.