

## Forensic Medicine

### 1. Staff and Students

|                            |                   |                    |
|----------------------------|-------------------|--------------------|
| Professor                  | Koichi UEMURA     |                    |
| Junior Associate Professor | Toshihiko AKI     |                    |
| Assistant Professor        | Takeshi FUNAKOSHI |                    |
| Assistant Professor        | Kana UNUMA        |                    |
| Graduate Student           | Kyoko UCHIDA,     | Akina NARA,        |
|                            | Haruka NAKAYAMA,  | Tsukasa SHIRATORI, |
|                            | Kanako NORITAKE,  | Yumi WATANUKI      |

### 2. Purpose of education

Forensic medicine provides fundamental human rights, public safety and nation's welfare to make a fair judgment on the items on the law which requires the medical knowledge. Education of forensic medicine is included forensic medicine in a narrow sense and medical law. Purpose of education in forensic medicine is to provide students opportunity to study the essential knowledge of the relationship between medical and society (include law, ethics, suit and administration). Students are also taught a blood type and an alcohol medicine in a practical training.

### 3. Research Subjects

- 1) Toxicology
- 2) Alcohol medicine
- 3) Forensic pathology
- 4) Medical law

### 4. Practical services

Forensic Medicine provides the expert opinion on a living body and a corpse to clarify causes of wound and death, mainly entrusted by a public prosecutor or the police, thereby, contributing fair trial in a court.

### 5. Publications

#### Original Article

1. Nara A, Aki T, Funakoshi T, Uchida K, Nakayama H, Uemura K. Death due to blood transfusion-induced anaphylactic shock: A case report. *Leg Med (Tokyo)*. 2010 May;12(3):148-50.
2. Aki T, Nara A, Funakoshi T, Uemura K. Bifurcate effects of glucose on caspase-independent cell death during hypoxia. *Biochem Biophys Res Commun*. 2010; 396(3):614-8.
3. Nara A, Aki T, Funakoshi T, Uemura K. Methamphetamine induces macropinocytosis in differentiated SH-SY5Y human neuroblastoma cells. *Brain Res*. 2010; 1352:1-10.
4. Unuma K, Shintani-Ishida K, Yahagi N, Tsushima K, Shimosawa T, Ueyama T, Yoshida K. Restraint stress induces connexin-43 translocation via  $\alpha$ -adrenoceptors in rat heart. *Circ J*. 2010;74(12):2693-701
5. Unuma K, Harada K, Nakajima M, Ito T, Okutsu K, Yoshida K. Unexpected death of a patient with rheumatoid arthritis complicated by a cervical deformity. *Leg Med (Tokyo)*. 2010;12(5):242-5.
6. Tojo A, Unuma K, Harada K, Yoshida K, Fujita T. Localization and mechanism of nephrocalcinosis in pseudo-Bartter's syndrome. *Kidney Int*. 2010;77(9):831
7. Unuma K, Shintani-Ishida K, Tsushima K, Shimosawa T, Ueyama T, Kuwahara M, Yoshida K. Connexin-43 redistribution and gap junction activation during forced restraint protects against sudden arrhythmic death in rats. *Circ J*. 2010;74(6):1087-95.
8. Unuma K, Harada K, Nakajima M, Eguchi H, Tsushima K, Ito T, Shintani-Ishida K, Kojima H, Yoshida K. Autopsy report on central pontine myelinolysis triggered by vomiting associated with digoxin intoxication. *Forensic Sci Int*. 2010;194(1-3):e5-8.