

## Division of Clinical Pharmacology and Therapeutics

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### General Summary

The Division of Clinical Pharmacology and Therapeutics was established in July 1995. The aim of the division is to investigate drug treatment, mainly in the area of internal medicine, whereas other departments of clinical pharmacology in Japan focus on registration trials, particularly phase I trials. Because a clinical laboratory where we had performed many human pharmacological studies became unavailable in 2003, we shifted our research from human studies to multicenter clinical trials and pharmacoepidemiological studies.

### Research Activities

Statins (3-hydroxy-3-methylglutaryl coenzyme A reductase inhibitors) have been widely used to treat hyperlipidemia. They have adverse effects on muscle, the liver, kidneys, and other organs. To investigate the incidence of these adverse effects and antihyperlipidemic effects, we performed a pilot study in 3 major hospitals, including our hospital, according to a case-cohort design in which detailed data were collected from all cases and in a subcohort representing 5% of all subjects. A full-scale study has been completed with a large sample size of 7,000 patients from 68 institutions.

An administrative office for registration trials was established in the hospital in February 1999, and the system for registration trials in the hospital has been reformed to meet the demands of the new good clinical practice guidelines. Seven clinical research coordinators (CRCs)—6 nurses and 1 pharmacist—now facilitate clinical trials. The CRCs have started to help with both registration trials and investigator-initiated trials. CRCs have been introduced into all registration trials since 2004; the quality and speed of these trials were much improved.

The Ministry of Health, Labour and Welfare started a New 5 Yearly Clinical Trial Action Plan to help registration trials to cope with trials performed abroad. This action plan selects 10 core hospitals and 30 major clinical trial institutions. The Jikei University Hospital was named a major clinical trial institution. According to this plan, we reinforced CRCs and introduced a data manager to improve the clinical trial system. We also introduced an information technology system for processing registration trial management.

### Publications

**Saito I<sup>1</sup>, Suzuki H<sup>2</sup>, Kageyama S, Saruta T<sup>1</sup>** (*<sup>1</sup>Keio Univ, <sup>2</sup>Saitama Med Sch*). Treatment of hypertension in patients 85 years of age or older: a J-BRAVE substudy. *Clin Exp Hypertens*. 2011;

**33**: 275-80.

**Kageyama S, Ueda S<sup>1</sup>, Mochizuki K<sup>2</sup>, Miyakawa M<sup>3</sup>, Sugawara M<sup>4</sup>, Nakayama M<sup>5</sup>, Ohashi Y<sup>6</sup>, Saito I<sup>1</sup>, Saruta T<sup>1</sup>; OCEAN Study**

**Group<sup>8</sup>** (<sup>1</sup>Ryukyū Univ, <sup>2</sup>Mochizuki Clin, <sup>3</sup>Miyakawa Clin, <sup>4</sup>Sugawara Clin, <sup>5</sup>Nakayama Clin, <sup>6</sup>Univ Tokyo, <sup>7</sup>Keio Univ, <sup>8</sup>Pub Health Res Found). Optimal Combination of Effective ANti-hypertensives (OCEAN) study: a prospective, randomized, open-label, blinded endpoint trial-ratio-nale, design and results of a pilot study in Japan. *Hypertens Res.* 2012; **35**: 221-7.

**Kadokura T<sup>1</sup>, Saito M<sup>1</sup>, Utsuno A<sup>1</sup>, Kazuta K, Yoshida S<sup>1</sup>, Kawasaki S<sup>1</sup>, Nagase I<sup>1</sup>, Kageyama S (Astellas Pharma Inc).** Ipragliflozin (ASP1941), a selective sodium-dependent glucose cotransporter 2 inhibitor, safely stimulates urinary glucose excretion without inducing hypoglycemia in healthy Japanese subjects. *Diabetology International.* 2011; **2**: 172-82.

**Watanabe H<sup>1</sup>, Kageyama S, Kusuoka H<sup>2</sup>, Ono S<sup>3</sup>, Saito K<sup>4</sup>, Isobe T<sup>5</sup>, Kakee N<sup>6</sup>, Kurihara C<sup>7</sup>, Sakuhiro T<sup>8</sup>, Aoki H<sup>8</sup>, Tsujide K<sup>8</sup>, Nabeoka Y<sup>9</sup>, Morishita N<sup>2</sup>, Suzuki C<sup>10</sup>, Kachi S<sup>1</sup>, Takehara K<sup>6</sup>, Tsujimoto Y<sup>11</sup>, Kondo E<sup>1</sup>, Komori Y<sup>1</sup>** (<sup>1</sup>Hamamatsu Univ, <sup>2</sup>Osaka Natl Hosp, <sup>3</sup>Univ Tokyo, <sup>4</sup>Pharm Med Dev Agcy, <sup>5</sup>Keio Law Sch, <sup>6</sup>Natl Ctr Child Health Dev, <sup>7</sup>Natl Inst Radiol Sci, <sup>8</sup>Jpn Pharm Manu Assoc, <sup>9</sup>Chugai Pharm Co., Ltd., <sup>10</sup>Seirei Hamamatsu Gen Hosp, <sup>11</sup>Cons Organiz Med Law). Protection of human subjects and compensation for research-related injuries: Proposal of explanation sheet based on survey of the actual status in Japan (in Japanese). *Rinsho Hyoka.* 2011; **39**: 5-29.