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### **“Medical Device Development”**

The medical devices are designed to aid in the diagnosis, monitoring or treatment of medical conditions, following to the quest from the medical examiner. The development of the medical devices is very unique and is tough to cover all medical devices in general. There are typically two processes in the developments: needs depended development, and seeds depended developments.

The researches and developments have increased significantly since three technological breakthroughs on medical devices: X-ray machine, sphygmomanometer and electrocardiograph in the end of 19<sup>th</sup> Century. Then, the global market of medical devices reached roughly 209 billion US Dollar in 2006. The market size is expected to grow with an average annual rate of 6-9 % through 2010.

Minimally Invasive Surgery, known as MIS, would be more the states of the art of the technology over the past two decade. As one of the medical device developing companies, OLYMPUS Medical systems corp. has developed “Endoscopes” and “Surgical devices.”

The session will cover: 1) minimally invasive surgery in gastrointestinal fields to the date, 2) minimally invasive surgery in laparoscopic surgery to the date, 3) the device for MIS, 4) the necessary consideration for the making the medical devices, 5) the expectation for the material development.

### **BIOGRAPHY**

He obtained Bachelor degree in Mechanical Engineering Science from Tokyo Institute of Technology in 1984; and joined OLMPUS Corporation. He has involved in several medical devices, especially in the acoustic imaging and the end echo systems.

He was in charge of the ultrasound development as Manager of the R&D Group, Medical Division from 1997. Then, he provided the ultrasound devices to Japanese market as Manager of the Marketing Group from 2001. In 2002, he became Head of the Business Unit for Ultrasound, OLYMPUS Medical System Corporations for management and directing all activities in the Ultrasound business, including product development, inventory controls business developing and marketing. He was working as Project Leader (General Manager) for VI-PJ, which was nominated as a high ranked project in Medical systems in 2003.

He was promoted to General Manager, Product Planning Department in Product Planning Division in 2004; and Division Manager, Research and Development Division in 2006. Then, he became Executive Group Vice President, GyrusACMI; and Vice president, R&D and Manufacture Olympus Corporation of the Americas in 2008. He had responsibility for the R&D, Manufacturing, QA/RA in GyrusACMI and management of 1500 persons.

Mr. Saito has many contributions on development and marketing on the ultrasound technology, endo therapy, therapeutic energy and CDS (Cleaning, Disinfection, and Sterilization) technology as Division Manager, Research and Development Division, OLYMPUS Medical systems Corporations since October in 2010.

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