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Improvement of the hospital management using epoch-making automatic injection information reader first in the world: Cumulus

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We have developed the first of its kind- automatic pharmaceutical and operating room product recognition system. This is a new and very novel technology and clearly the first of its kind in the world: "CUMULUS". Our intent is to examine the effectiveness and usefulness in the operating room of the hospital. We collected the data of G.I. surgery cases and we're able to calculate procedure cost, improved billing accuracy by capturing missed charges and improved the efficiency of the circulating nurse. Nurses were able to return to patient care versus focusing on logistic data entry. By using the CUMULUS system we observed a significant savings and profit realization. The overtime for the OR nurse was also reduced in half due to the reduction of inefficient nursing duties. Furthermore, as a result of cost analysis by data from the CUMULUS system, we were able to capture of 1,600 dollars per laparoscopic cholecystectomy procedure. This alone was a \$80,000.00 annual savings. We concluded that the use of the CUMULUS system facilitated efficient and accurate management of the Operating Room's inventory. This system improved accuracy of patient billing, replenishment and timely purchasing allowing for real time inventory recognition and control plus provided immediate Profit and Loss reports for each procedure. As a result, this improved quality of patient care versus logistical time spent on data entry.

Biography

Taketoshi Suehiro has completed his MD (1989) and PhD (2000) from Kyushu University. He did the clinical training and research of the liver transplantation in Mount Sinai Hospital, New York from 1993 to 1996. He is Assistant Director of Onga-Nakama Medical Association Onga Hospital. His specialty is wide with digestive organ surgery, endoscope, infectious disease, nutrition and so on. He has published more than 70 papers in surgical journals and has been serving as an Editorial Board Member of *Hepato-Gastroenterology Journal*.

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