

Health Care Informatics

1. Staffs and Students (April, 2010)

Associate Professor	Kiyohide FUSHIMI	
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2. Purposes of Education

Health care informatics is a branch of health policy science which deals with the application of information technology to health policy research. Main objective of health care informatics in the graduate course is to acquire ability to independently design, manage and accomplish researches in health policy and health informatics fields.

3. Research Subjects

- 1) Functional differentiation and coordination of healthcare facilities
- 2) Development and application of patient case mix system for Japanese healthcare settings
- 3) Application of information technology to standardization of health care and sharing of health care information.

4. Publications

Original Article

1. Miyata, H., Hashimoto, H., Horiguchi, H., Fushimi, K., Matsuda, S: Assessment of hospital performance with a case-mix standardized mortality model using an existing administrative database in Japan. *BMC Health Services Research*. 2010; 10: 130.
2. Kuwabara, K., Matsuda, S., Fushimi, K., Ishikawa, K.B., Horiguchi, H., Fujimori, K: Effect of Hospital Characteristics on the Quality of Laparoscopic Gastrectomy in Japan. *Gastroenterology Research*. 2010; 3(2): 65-73.
3. Kuwabara, K., Matsuda, S., Fushimi, K., Ishikawa, K.B., Horiguchi, H., Fujimori, K: Quantitative comparison of the difficulty of performing laparoscopic colectomy at different tumor locations. *World J Surg*. 2010; 34(1): 133-139.
4. Kuwabara, K., Matsuda, S., PhD; Imanaka, Y., Fushimi, K., Hashimoto, H., Ishikawa, KB., Horiguchi, H., Hayashida, K., Fujimori, K., Ikeda, S., Yasunaga, H : Injury Severity Score, resource use, and outcome for trauma patients within a Japanese administrative database. *J Trauma*. 2010; 68(2): 463-470.
5. Kuwabara, K., Matsuda, S., Fushimi, K., Ishikawa, K.B., Horiguchi, H., Hayashida, K., Fujimori, K: Contribution of bile duct drainage on resource use and clinical outcome of open or laparoscopic cholecystectomy in Japan. *J Eval Clin Pract*. 2010; 16: 31-38.
6. Kuwahara, K., Matsuda, S., Anan M., Fushimi, K., Ishikawa, K.B., Horiguchi, H., Hayashida, K., Fujimori, K: Difference in resource utilization between patients with acute and chronic heart failure from Japanese administrative database. *Int J Cardiol Jan*. 2010; 141(3): 254-259.
7. Kuwabara, K., Matsuda, S., Fushimi, K., Ishikawa, K.B., Horiguchi, H., Fujimori, K: Probability of survival, early critical care process, and resource use in trauma patients. *Am J Emerg*. 2010; 28(6): 673-681.
8. Kuwabara, K., Matsuda, S., Fushimi, K., Ishikawa, KB., Horiguchi, H., Hayashida, K., Fujimori, K. Impact of timing of bile duct interventions on resource use and clinical outcome of cholecystectomy patients in Japan. *J Eval Clin Pract*. 2010; 16(4): 802-810.
9. Kuwabara, K., Matsuda, S., Fushimi, K., Ishikawa, KB., Horiguchi, H., Fujimori, K. Variations in the preoperative resources use and the practice pattern in Japanese cholecystectomy patients. *Surg Today*. 2010; 40(4): 334-346.