

*Development of a new medical care and health care model*

*B-J. WANG, H-F. CHOU, Y-M. CHANG, E. HADHIWALUYO. Development of a new medical care and health care model for senior's needs by business process reengineering and innovation methods. Gerontechnology 2014;13(2):296; doi:10.4017/gt.2014.13.02.222.00* **Purpose** Taiwan's rapidly aging population has increased the demand for health and medical care. Under the current health insurance system there is much unnecessary waste, because the information format created by the hospital information systems (HIS) has not been standardized. The purpose of this study is to develop new means of effectively using available medical resources by reengineering the medical process<sup>1</sup> and establishing new service processes. **Method** An innovative model for complete medical and care services was constructed, and the Health Level Seven (HL7) and HIS systems<sup>2</sup> of medical information were integrated. An innovative service architecture<sup>3</sup> for health and medical care was established. Finally, data streaming and cloud computing technologies<sup>4</sup> were used to establish a mechanism of information exchange, and verify the feasibility of the service model. **Results & Discussion** Results of this study are useful for developing new applications of information and communication technology<sup>5</sup> (ICT) to information system integration among medical institutes, labor and health insurance institutes, and the social welfare system. The establishment of an innovative service chain between health care and medical care systems can save time spent exchanging patient information, can promote more effective use of medical resources, and can provide services to meet the needs of senior citizens in Taiwan.

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**Address:** Department of Business Administration, Tunghai University, Taichung City, Taiwan

**E:** bjwang@thu.edu.tw