

# Improvement of QoL by integration and analysis of nursing care life log and academic medical and health information infrastructure

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The quality depth and breath of nursing care records varies depending on each care worker's years of experience. It is difficult to share a complete picture of care receivers' information among other care workers just by recording the mere facts. Care workers who see care receivers on a daily basis require detailed nursing care records to supplement and confirm their own observations. With these records, they can improve the care they provide and can better educate other people engaged in care work. To further improve care work operations, it is necessary to solve the issues stated earlier and to develop detailed care record systems using electronic devices. In this study, key vocabulary from care records was used to compare different care receivers and provide care workers with additional information and insights on their care receivers. This study also examines the contents of care records, which enables to share the condition of care receivers among care workers. As a result, it is conceivable that this analysis will help provide care workers with the best information to care for care receivers. This study shows possibilities both in analyzing care records and in designing care record systems using electronic devices. In this study, we analyzed nursing care life log, visualized nursing care action, and realized a method to validate. Feedback from the results are given to the nursing care field, then they share the nursing care records among caregivers to allow them to improve good use of QoL.

For the academic medical and health information infrastructure, it is necessary to collect clinical data of the entire building and the medical area of the system for collecting long-term data on a large scale. Furthermore, an efficient medical care should be sought. To verify the improvement and cost effectiveness of medical care, continuous data collection is important. In the University of Miyazaki Hospital, the need for a data warehouse is desired. In the medical environment in University of Miyazaki Hospital, information technology by the electronic medical record is progressing, utilization of realistic time electronic medical record data is being requested. We collect and accumulate data from diverse and large amount of medical record data generated from the hospital business. Then, it is necessary to go to promote DWH to secondary use the electronic medical record data.