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UI Improvement Plan by Analyzing User Requirements at NICU for OCS in Korea - Focused on Laboratory Information System at Asan Medical Center in Seoul

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Abstract and objective

This study examines a way to improve UI by analyzing on-the-spot user's requirements, By making surveys and interviews with medical staffs at NICU and by my personal experience learned from using the Laboratory Information System while working at NICU for A general hospital Asan Medical Center in Korea. This study analyzes user's requirements on Laboratory Information System and seeks to improve UI of Laboratory Information System. Accordingly, this study aims for the current NICU users to perform NICU businesses easy and convenient, by redesigning display screen and procedure on Laboratory Information System of OCS. In addition, this study will further help achieve improvements of work environments for medical staffs and improvements of OCS efficiency.

Keywords:

OCS, user interface, LIS, NICU

Methods

User interface (UI) improvement plan is made reflecting user's requirements at NICU in a hospital, centered on Laboratory information system, in designing the actual display screen of OCS. This study examines a way to improve UI by analyzing on-the-spot user's requirements, By making surveys and interviews with medical staffs at NICU and by my personal experience learned from using the Laboratory Information System while working at NICU for A general hospital Asan Medical Center in Korea.

Results

This study re-composed a next generation OCS User Interface plan based on NICU (Neonatal Intensive Care Unit) User' s requirements From investigation results analysis on Laboratory Information System and improved User Interface of Laboratory Information System

Conclusion

Laboratory Information System from Order Communication System (OCS) is a computer system that is built for laboratory information processing. Laboratory Information System exists as a sub system of hospital information system or exists as an independent system. However, although it exists under the sub system of hospital information system, it has a high rate of use and has the largest volume of information in a hospital, except for image information.

However, according to the previous studies, database construction and studies on OCS medication information are done and made, But database construction and studies on Laboratory Information System are rare. In fact, Laboratory Information System is built based on clinical pathologic tests. However, it is believed that necessary measures need to be taken to reduce nurse's jobs according to doctor's order from a variety of actual clinical tests such as cranial nerve center test, radiation test, digestive organ center test, cardiac center test, nuclear medicine test, and respirator lab test.

This study analyzes user's requirements on Laboratory Information System and seeks to improve UI of Laboratory Information System. Accordingly, this study aims for the current NICU users to perform NICU businesses easy and convenient, by redesigning display screen and procedure on Laboratory Information System of OCS. In addition, this study will further help achieve improvements of work environments for medical staffs and improvements of OCS efficiency.

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