

Usability Evaluation of 360-degree Nursing Contents based on Mobile Application

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모바일 어플리케이션 기반의 360도 간호 콘텐츠의 사용성 평가

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Abstract

Objectives: The purpose of this study was to evaluate of usability of 360-degree nursing contents based on smartphone for the nursing students. **Methods:** The 360-degree nursing contents were composed of patient identification, hand hygiene, communication, falls, medication/injection, surgery/anesthesia, examination/treatment/procedure, blood transfusion, infection, and bedsores. After wearing the Head Mounted Display, access the smartphone application to see the 360-degree nursing contents being played and conduct self-evaluation. **Results:** Affordance of the 360-degree nursing contents was 4.20 ± 0.41 out of 5. The evaluation of presence was 4.20 ± 0.48 out of 5. Usability Evaluation of the 360-degree nursing contents was 4.15 ± 0.48 out of 5. **Conclusion:** These results suggest that 360-degree nursing contents in this study can be useful using nursing education methods.

1. Introduction

In order to respond appropriately to errors and risks, it must first be checked whether the proposed situation is perceived correctly. In actual clinical training for error accidents that threaten patient safety, there are temporal and spatial constraints and many possible factors. Therefore, research on risk prediction has not been conducted, and the researcher's mobile-based 360-degree virtual reality (VR) is used.

2. Study Method

This study was to evaluate of usability of 360-degree nursing contents based on smartphone for the nursing students. Affordance, presence, and usability were evaluated

3. Result

The 360-degree nursing contents were composed of 6 topics. Figure 1 showed the flow chart of 360-degree nursing

contents. Affordance of the 360-degree nursing contents was 4.20 ± 0.41 out of 5. The evaluation of presence was 4.20 ± 0.48 out of 5. Usability Evaluation of the 360-degree nursing contents was 4.15 ± 0.48 out of 5.



[Fig. 1] Flow chart of 360-degree nursing contents

Figure 2 showed the evaluation chart of 360-degree nursing contents.



[Fig. 2] Evaluation chart of 360-degree nursing contents

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