Considering that children are given medicine by their parents, who are their primary caregivers, parents must be educated in administering medication. This study aims to develop a mobile web-based education program for administering medication in order to increase parents’ knowledge and to allow them to administer medication to their children at home safely.

Methods

1) Analysis: The previous studies on the administration of medication to children were analyzed. In-depth interviews of mothers and experts' opinions were collected.

2) Design: In information step, the content of the program was organized according to the results of analysis of the parent's educational needs. In interaction step, a user interface was designed for the interaction between learners and the learning content. In motivational step, a manual was created to help learners use the program easily. In evaluation step, to measure the degree to which the website was used for learning, a management system was built to provide each learner with an individual ID and monitor the frequency and time they used on it.

3) Development: The development consisted of storyline development, media production, and integrated production.

4) Evaluation: A preliminary survey of five experts and five mothers was conducted to assess the system efficiency and convenience, design, information validity and usefulness, and level of understanding of the content.

Conclusion

The mobile web-based education program developed in this study for administering medication is expected to contribute to the management of children’s health problems through the safe and effective administration of medication and to promote health by preventing the misuse or abuse of drugs.

Keywords: child, education, medication, safety, parents

Acknowledgement: This research was supported by Basic Science Research Program through the National Research Foundation of Korea (NRF) funded by the Ministry of Education (2016R1D1A1B03933095).