



USING AN IPAD APPLICATION TO PREPARE FOR IMAGING

SUMMARY

To evaluate the four versions of the app., and combine the apps into a single app that is available for iPhone and iPad.

DESCRIPTION

The iPad application delivers a social script of pictures and words that help the person know what to expect and how to react during a procedure. The app is available at the Marquette Apple Store for iPads (individual apps for xray, nuclear medicine, MRI, CAT scan). We will evaluate the app to see if clinicians are using the four versions of the app. Future plans would involve: (1) combining the applications into a single app that is available for iPhone and iPad, (2) adding new health care procedure preparations to the app and (3) marketing it to health care systems nationwide.

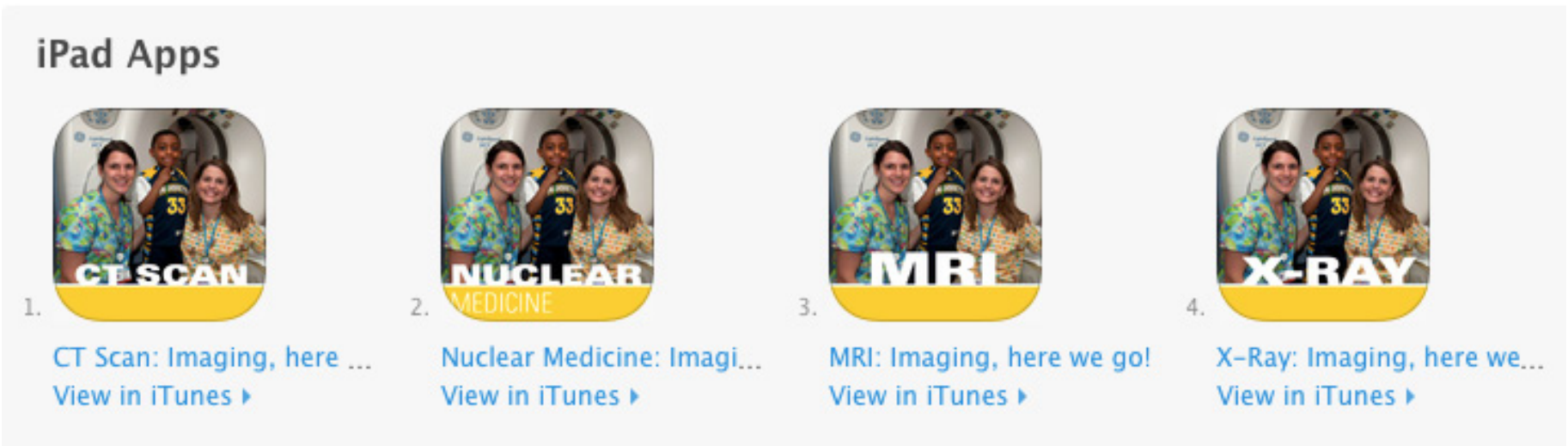
MILESTONES

Months 1-3: Prepare for focus group and survey on use, IRB documents and evaluate the use of the iPad imaging app

Months 4-9: Focus group and online survey, transcribe tapes and data analysis

Months 10-12: Modification of the app based on assessment

Months 13-18: Develop training and disseminate



ABOUT OUR TEAM

Dr. Norah Johnson, Content and design for the app
Dr. Iqbal Ahamed, Code for the app

At present, there is no application (app) based medical procedure preparation strategy in place nationwide for children with Autism Spectrum Disorder (ASD). The present project involves retrospectively tracking the clinical/hospital use and of our already developed iPad app intended to help persons with ASD safely complete medical imaging. The app coding was developed in the Ubicomp Lab lead by Dr. Ahamed. We already tested the iPad application with 32 parent/child dyads and found that it was associated with lowered parent and child anxiety, shortened procedure length, and reduction in the number of challenging child behaviors.



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BEYOND BOUNDARIES

The evaluation of the use, fidelity of use, and barriers to use of the iPad app fits with Marquette University's Beyond Boundaries Strategic Plan as it represents the themes of research in action for the well-being of human kind and reaching one's full potential. In addition, as a Marquette product it represents the Institution's Strategic Plan: Beyond Boundaries as it demonstrates an example of collaboration with the community partners Children's Hospital of Wisconsin and the Autism Society of South Eastern Wisconsin.