

DEVELOPMENT AND APPLICATION OF SMART-NUTRITION INFORMATION SYSTEM IN HOSPITAL FOOD SERVICE

P261

Ji Seon Kim*¹, Ji Yeon Kim¹, So Young Kim¹

1.Department of Clinical Nutrition, National Cancer Center, Goyang-Si, Korea, Republic Of 34

1. Introduction

A hospital diet based on a nutrition prescription is a personalized dietary recommendation for a patient's condition. In order to improve the quality of patient's experience, we developed service system in food service.

2. Objective

To improve to provide individualized smart-nutrition information and expand services to enhance the accessibility of nutrition information by mobile.

3. Method

System was developed improvement and application of smart-nutrition information for accessing by mobile service. It was designed that the website was to provided hospital-diet information linked to QR codes and provided information on what to eat and drink or dietary advice for each patient's hospital diet.

4. Result

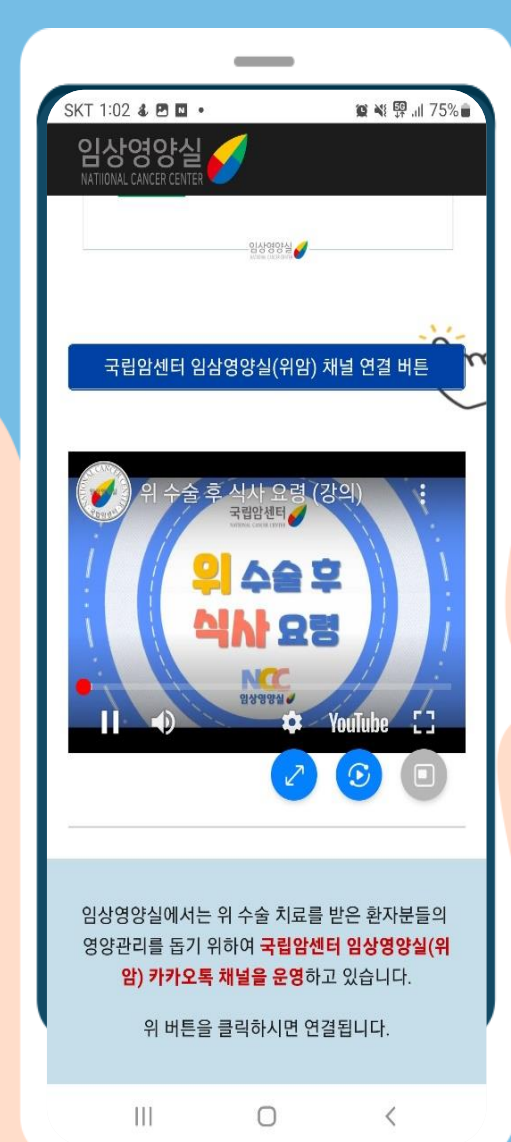
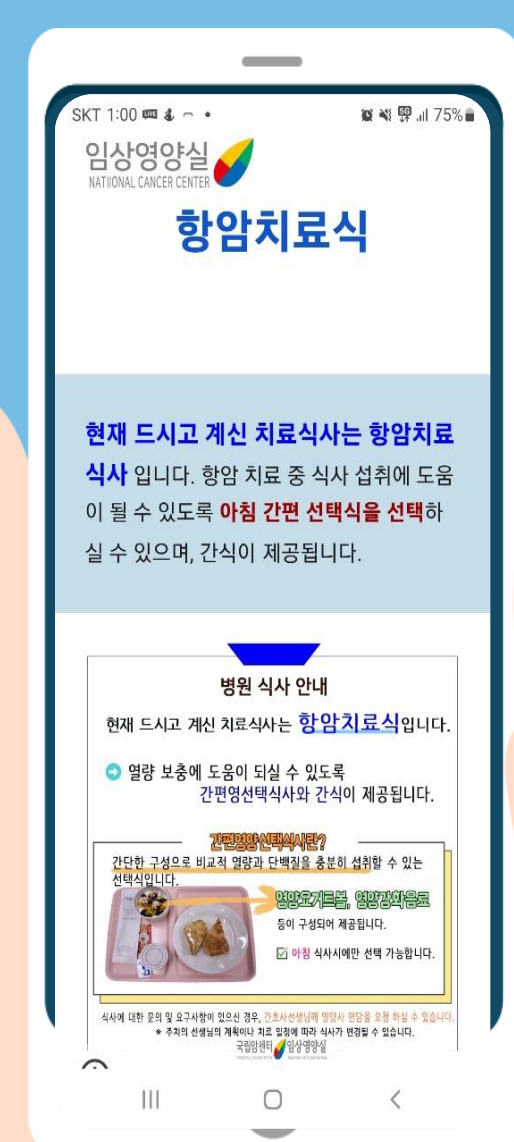
The patients' understanding of hospital diet information had improved by 47% (61.3→89.8 out of 100). The accessibility to nutritional information had improved by 37%. (61.3→84.4 out of 100). A satisfaction score of mobile service was 87 out of 100, and there was no opinion on dissatisfaction.

Hospital environment



Non-face to face

Development system and application QR code service at every hospital diet time



Take a photo



47% Improvement

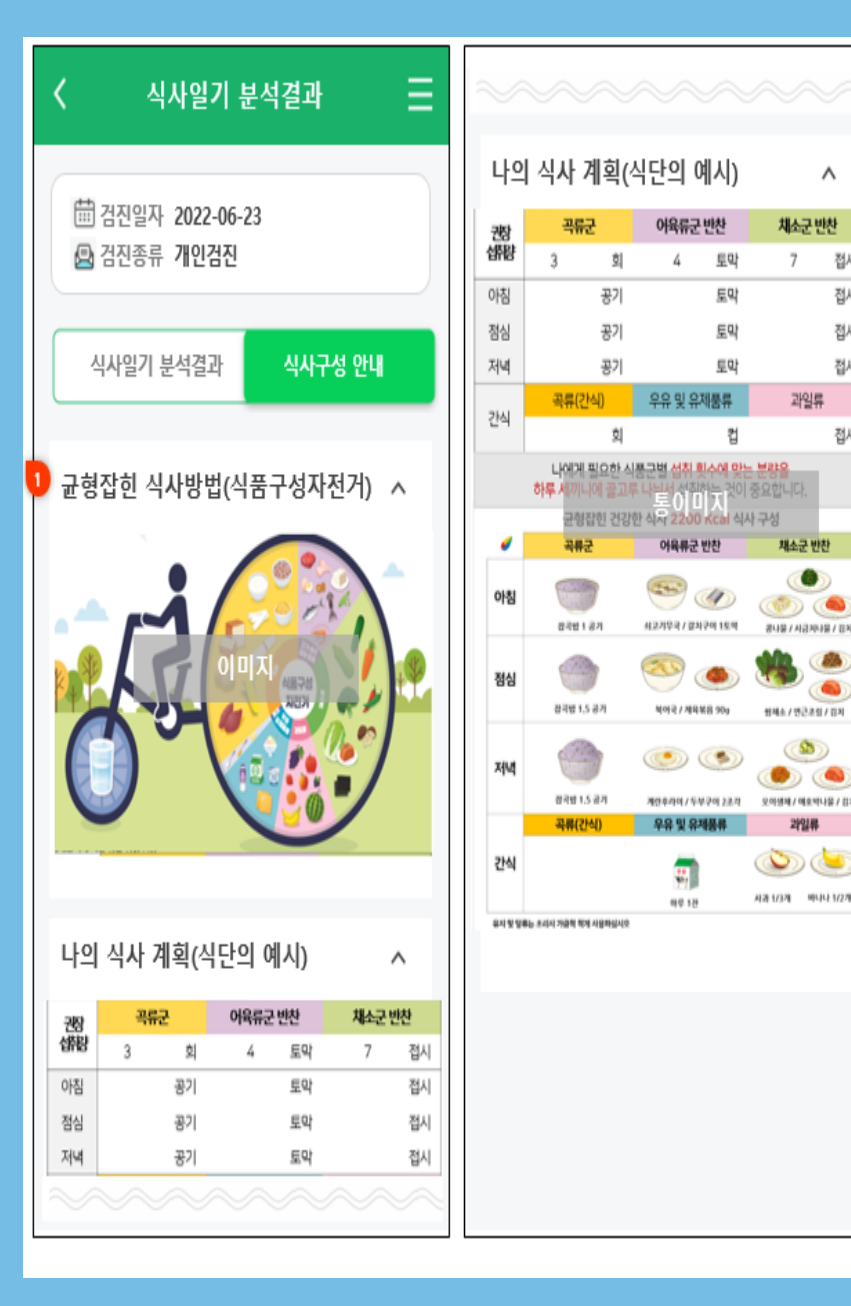
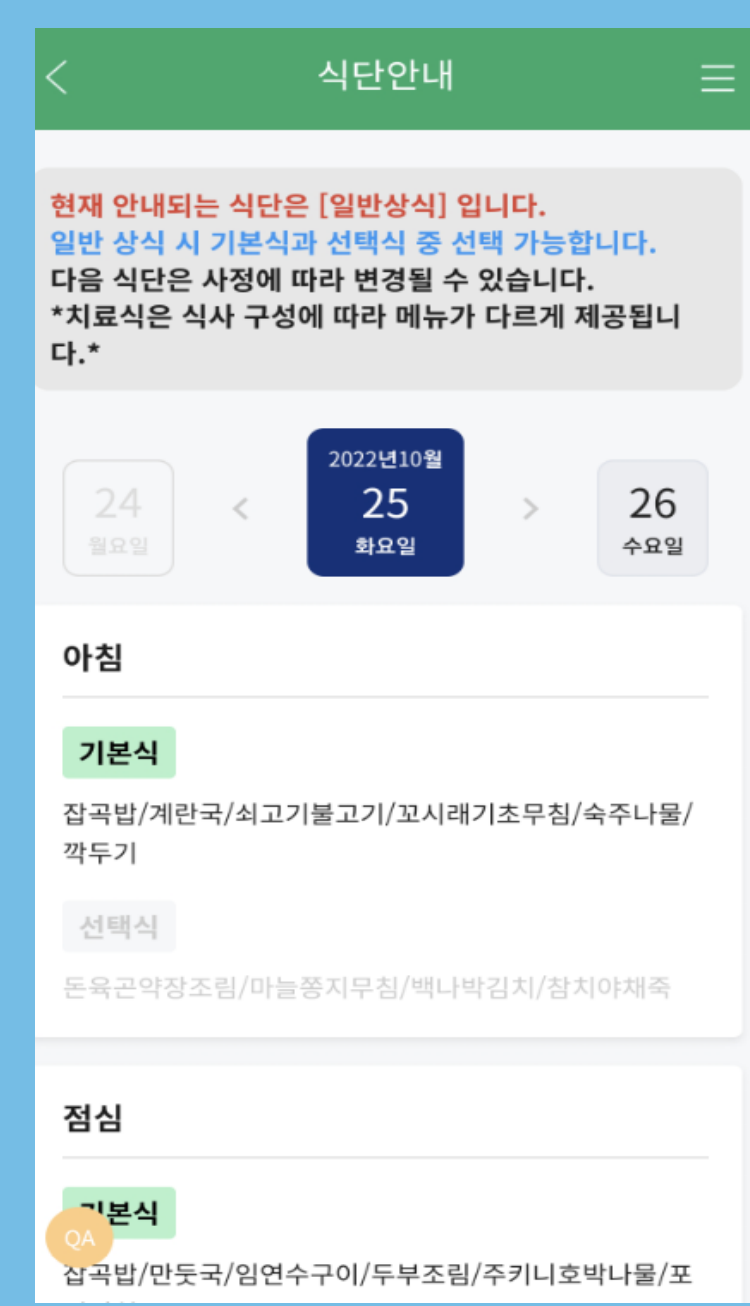
Understanding of hospital diet information

Information Service change



"How to eat and drink or about dietary advice for cancer patients"

Mobile App



Hospital diet menu Dietary assessment result

37% Improvement

Accessibility to nutritional information

Anytime
By my self
Continuous
Do

Re-selective
Self-selective

Goal Achievement

Satisfaction of mobile information service

Conclusion

The system has been developed that provides individual diet-nutrition information services, allowing repetitive and immediate access.

Mobile service may positively contribute to the patients' experience in hospital food service.

Reference

1. Ga Young Kim and Jung-Sook Seo, A New Paradigm for Clinical Nutrition Services in the Era of the Fourth Industrial Revolution. Clinic Nutr Res, 2021 Apr; 10(2): 95-106.
2. A Study on the Development of Smart Hospitals for the Innovation of Medical Services in the Digital Age. KHIDI, 2020. 12