

EAT2WIN: A PILOT STUDY ASSESSING ATHLETES' BEHAVIORS, ATTITUDES, AND ADHERENCE USING A MOBILE APPLICATION J. Frederickson and G. Ho L. Dart, PhD, RD, LD, J. L. Stevenson, PhD, RDN, LD, B. Helms, MA, RDN, CSSD, LD, A. Vanbeber, PhD, RDN, LD, FAND Department of Nutritional Sciences – Texas Christian University, Fort Worth, TX

Background

- Athletes increasingly skip meals because they lack time or knowledge to prepare their own meals; mobile applications have been proposed as a potential solution to this problem.¹
- Adherence to mobile app tracking may vary, but self-motivation and nutrition knowledge increase chances of behavior change while using an app.⁷

Objectives

To determine if female college athletes' nutrition and fueling behaviors changed over four weeks by utilizing a mobile application for tracking fueling habits.

Eat2Win App

Eat2Win is an app that has been designed to deliver customized food schedules to busy athletes so that they can stay adequately nourished for all activities throughout the day (training, classes, etc.).

Key features include:

- Trackers, log meals by taking pictures
- Athlete's Calorie Calculator
- Wide variety of Standard Meal Plans Guides
- includes vegan, (also vegetarian, and restaurants options)
- Meal reminders
- Nutrition monitors
- Free to download



Study Design / Methodology

- Pilot study with cohort of 17 female TCU NCAA Beach Volleyball athletes.
- Pre and post-study questionnaires examined attitudes toward mobile applications, current dietary behaviors, and frequency of fueling habits. Athletes attended a pre-study training session about utilizing the Eat2Win app.
- Data analyses included recorded frequency of application usage and athletes logged meals per/day plus impact on dietary behaviors and fueling habits.
- Study procedures approved by TCU IRB. Participant informed consent was obtained. Data were analyzed to meet study objectives (SPSS, *p*≤0.05).

1. Simpson A, Gemming L, Baker D, Braakhuis A. Do image-assisted mobile applications improve dietary habits, knowledge, and behaviours in elite athletes? A pilot study. Sports. 2017;5(3):60-70. doi:10.3390/sports5030060. Accessed January 16, 2019. 7. Lieffers JR, Arocha JF, Grindrod K, Hanning RM. Experiences and perceptions of adults accessing publicly available nutrition behavior-change mobile apps for weight management. J Acad Nutri Diet. 2017;118(2):229-239.e3. doi:10.1016/j.jand.2017.04.015. Accessed September 28, 2017.



