

By integrating an **interactive map** of **community resources** into clinical care, PREVENT will assist patients in **achieving their individual health goals.**

PREVENT : An Implementation of the Yelp Fusion Application Programming Interface (API)

Esra S. Taner, MS¹, Randi Foraker, PhD¹, Simon Lara, Marcelo Lopetegui, MD, Maura Kepper, PhD^{1,2}

INTRODUCTION

- Despite the rapid emergence of Health Information Technology (HIT), HIT has rarely been utilized to promote health behaviors and address social determinants of health to address overweight and obesity^{1,2,3}
- PREVENT is the first HIT that strives to address this gap

METHODS

1. Obtain an API Key from Yelp
2. Authenticate requests to Yelp API within program of choice (e.g. Python)
3. Generate community resources
4. Create the workflow for automation of community resource data into PREVENT

RESULTS:

Figure 1 displays the interactive map of community resources in the PREVENT tool. This map has the following functionality:

- Automatically zooms to patient's address in order to identify resources accessible to the patient.
- Can be filtered or searched to find specific resources.
- Provides detailed information on each resources (e.g., hours of operations, amenities, directions by car, public transportation or foot).

DISCUSSION:

- PREVENT harnesses clinical and community data to deliver individualized behavioral change recommendations to address overweight/obesity among adolescents.
- PREVENT may support providers who do not have knowledge of all the resources spanning the Greater St. Louis region



Figure 1. Interactive Map of Resources within PREVENT

PREVENT	Yelp API
Weight Management Program	Dieticians, Preventative Medicine, Nutritionists, Weight Loss Centers
Community Gardens	Botanical Garden
Food Pantries	Food Banks
CSA'S	CSA
Farmer's Markets	Farmer's Market
Parks and Playgrounds	Parks, Playground

Table 1. Categorization of Local Resources

References: Tung EL, Peek ME. Linking community resources in diabetes care: a role for technology?. *Curr Diab Rep.* 2015;15(7):45. doi:10.1007/s11892-015-0614-5, Hood KK, Hilliard M, Piatt G, levers-Landis CE. Effective strategies for encouraging behavior change in people with diabetes. *Diabetes Manag (Lond).* 2015;5(6):499-510., Payne PR, Lussier Y, Foraker RE, Embi PJ. Rethinking the role and impact of health information technology: informatics as an interventional discipline. *BMC Med Inform Decis Mak.* 2016;16:40. Published 2016 Mar 29. doi:10.1186/s12911-016-0278-3