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**DRS. ALYSON  
GOODMAN  
& MONA SHARIFI**

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**Required Skills:**

(List skills needed) -  
No preference

**Preferred Team**

**Communications:**

Conference Call, Skype, WebEx /  
GoToMeeting

**Data Sources:**

No data requirements; potential sources include de-identified data from various healthcare entities/data repositories. Supervisors will facilitate access to required data.

**Other Items:**

Any US time zone

**Team Info:**

Developer, Tester, Project Manager.  
Allows one team of 4-6 members.

**Additional Collaborators:**

Additional collaborators include: (1) Centers for Disease Control and Prevention, Megan Harrison, MPH, RDN; (2) Various faculty, The University of Texas Health Science Center School of Public Health, Brownsville; and (3) other subject matter experts.

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**HEALTHY WEIGHT ON FHIR – SUPPORTING  
CLINICIANS IN PROVIDING CARE FOR CHILDREN WITH  
OBESITY**

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Child obesity affects over 12 million U.S. children, and is associated with serious and costly medical, social and behavioral health conditions. Decades of research have produced information about key risk factors, and evidence-based strategies for obesity prevention & treatment. However, this information often doesn't reach the families affected by obesity, or the healthcare providers taking care of them. The proposed project will map key healthy weight data elements to existing FHIR resources, identify gaps and propose solutions using FHIR for healthy weight behaviors and other elements, and then use these resources to develop healthy weight applications to support families and clinicians in child obesity prevention and treatment. These applications may include caregiver healthy weight data input to a smart device, transmission of these and clinical data between families and clinicians, clinical decision supports to improve uptake of expert guidelines for child obesity prevention and treatment, and enhanced structured data capture for evaluation and research.

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**PROJECT OBJECTIVES**

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The broad project objectives are: (1) Expand relevant dietary and nutrition information available to clinicians inside electronic health records, (2) Expand relevant clinical information available to registered dietitians in clinical and non-clinical settings, and (3) Enable clinics, hospitals, health information organizations, and public health agencies to engage grocery stores and food outlets for health promotion and dietary monitoring programs.

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**SUCCESSFUL PROJECT**

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Drs. Goodman & Sharifi are excited to work with engaged students who are interested in helping to make a difference for children and families! This project has real-world applicability, and from which an implementable app could be tested in health centers.

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**Intellectual Property:** Project involves a government agency and so the resulting project must be available to the public. Students do not own IP, but will be recognized as contributors.