

An Integrated Approach to Prevention of Obesity in High Risk Families

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V(A). Planned Program (Summary)

1. Name of the Planned Program

An Integrated Approach to Prevention of Obesity in High Risk Families

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
703	Nutrition Education and Behavior	100%		100%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

1. Actual amount of professional FTE/SYs expended this Program

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	0.0	0.1	0.0
Actual	0.0	0.0	0.3	0.0

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
	0	115820	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	39102	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

In this multi-state project, my part is to conduct data analysis of obesity data. I proposed a fuzzy membership function model to define obesity resilience. I have been waiting for Objective 2 group to select a list of variables from the NHANES data, which can be used to define the obesity resilience model. Meanwhile, I have been working with Prof. Yi Lu at Prairie View A&M University on a new methodology of variable association analysis to help the selection of variables from the overwhelming amount of variables in the NHANES data. This new approach proposes hierarchical clustering for feature reduction and was tested on Diabetes and heart disease data. It will be tested on the NHANES data once that data is preprocessed by Group two. The publications Dr. Yi Lu and I made are listed in the publication section of this report. One conference publication and one journal publication have been made. Dr. Yi Lu presented the results at the international conference which the paper was submitted to and accepted.

2. Brief description of the target audience

Target audience will consist of resilient and non resilient families with children ages 4 - 10 years.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	0	0	0	0
2008	0	0	0	0

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year	Target
Plan:	0
2008:	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	1	
2008	0	1	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

Development of new or improvement of existing tools for measuring the effectiveness of the interventions targeted to childhood overweight in low income families.

Year	Target	Actual
2008	0	0

Output #2

Output Measure

Identification of objective, physiological-based measures that correspond to target behaviors (bio-behavioral markers) for use later as measures of intervention progress and success or means for tailoring interventions in ways that will be most effective for specific groups and subgroups.

Year	Target	Actual
2008	0	0

V(G). State Defined Outcomes

O No.	Outcome Name
1	More effective programs and student experiences with extension and research.
2	Advances in the study of obesity, particularly an understanding of various inputs and interactions of family and child, SES, nutrition, physiology and behavior, will result from this work, opening doors of opportunity for development of effective solutions to reverse trends in childhood obesity.

Outcome #1

1. Outcome Measures

Not reporting on this Outcome for this Annual Report

2. Associated Institution Types

3a. Outcome Type:

3b. Quantitative Outcome

Year	Quantitative Target	Actual
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3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
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V(H). Planned Program (External Factors)

External factors which affected outcomes

Other ()

Brief Explanation

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

Before-After (before and after program)

Evaluation Results

Key Items of Evaluation