Georgia Southern University Research Study

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STUDY DESIGN

This article is based on a case-control study, conduct to provide community residents with nutrition and exercise counseling. After proper permission from Georgia Southern University's Institutional Review Board (IRB), study participants were recruited using advertisement in the local news paper.

Other partners in the research: Candler County Hospital hosted the program, as well as performed all the lab work. Food Fitness First provided the Registered Dietitian for the counseling and class educational components.

Nutritional Intervention: Each participant received initial counseling at program start; all received the Food Fitness First, Inc.,[®] Healthy FOOD SPIRAL[®] and were educated on how to use the Food Spiral[®] and the accompanying material: ie: food diary, menus, fast food and grocery store literature.

Describe implementation of the intervention and collection of the blood samples:

• Blood samples, diet history, physical activity level, and anthropometric data were obtained to study the effect of omega-3 fatty acids and exercise on risk factors associated with cardio-metabolic risk markers.

Statistical methods: We used paired-sample t-tests, to assess the significance of the differences between pre- and post-intervention measures among the study participants.

RESULTS

The study shows substantial changes were observed in most of the cardio-metabolic indicators. The food intervention, paired with exercise, resulted in a statistically significant decline in body weight (mean decrease=7.2 lbs.; p=0.000). An average reduction of 3.9 inches in waist circumference and 2.9 inches in hip circumference demonstrates significant effect of diet and exercise intervention (p<0.000 for both measures).

Figure 1: Comparison of the average weight of participants at pre-and-post intervention times.

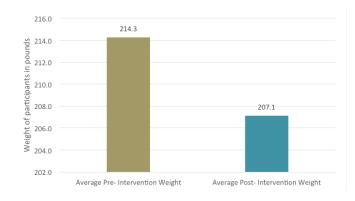
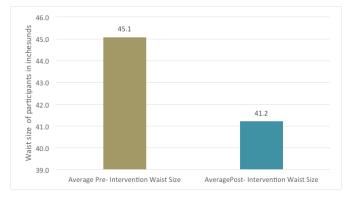
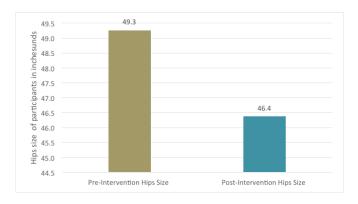


Figure 2: Comparison of the average waist size of participants at pre-and-post intervention times.



P<0.001 for significance of pre-post differences.

Figure 3: Comparison of the average hip size of participants at pre-and-post intervention times.



P<0.001 for significance of pre-post differences.

Figure 4: Average pre and post intervention percent body fat of participants.

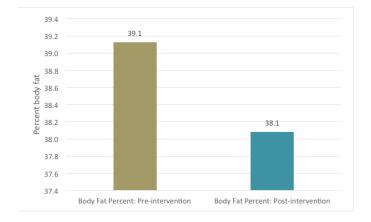
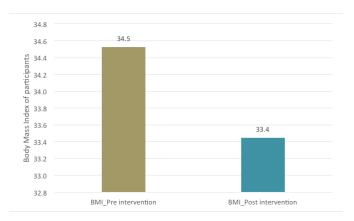


Figure 5: Average pre and post intervention Body Mass Index (BMI) of participants.





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Study Through Georgia Southern University Grant

Adult Male - Healthy FOOD SPIRAL® Program

About the Study: This was a grant through Georgia Southern University Grant with Padmini Shankar, RDN, PHD and Gulzar Shah, PhD, MStat, MS in association with Candler County Hospital's Physical Therapy Department, which was headed by Damien Scott, RPT, MS, OCS.

Before



Age: 43

Occupation: Truck Driver

Program Duration: 12 week program

Beginning and ending statistics recorded; weekly activities/class.

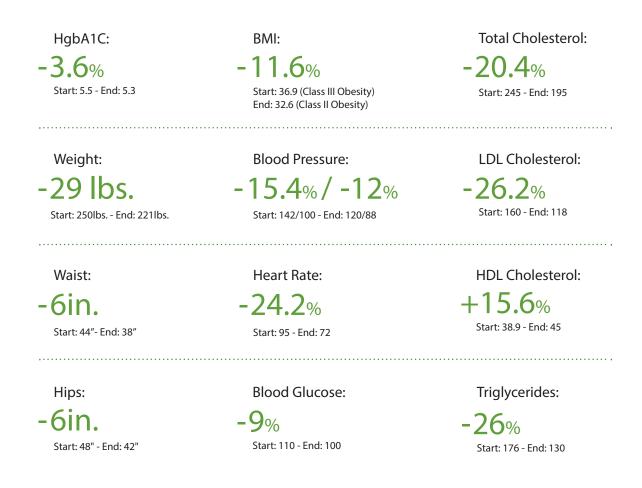
Dietary Challenges:

High Blood Pressure, Obesity, stated Poor Self-Esteem and Depression.



After





When I joined the diet program, I was overweight and out of shape. My blood pressure was sky high and uncontrollable. Once I started eating healthy and exercising regularly my blood pressure began to stabilize and it was very controllable. I was eating with the green, yellow, and red chart that was provided by the program. It was easy to follow because following the program never let you become hungry. I began to lose weight and started to feel good about myself. People were complimenting the weight loss often, which lifted my emotional spirits. My lifestyle got better all around as I started enjoying life by getting out in public more and participating in activities with family and friends. My health was great and it became a natural habit to eat healthy and exercise regularly. Program was very much a success.

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Please take a moment and answer the following questions:

- 1. Please circle your gender: Male or Female.
- 2. What medical conditions do you have? high blood pressure
- 3. How much weight have you lost? <u>29165</u>

4. How many inches around the waist have you lost?

- 5. What labs values have improved during this program? Please give before and after values if possible. Also was there a change in your blood pressure? <u>bp 142</u> <u>before 120</u> <u>ofter and set tigs better</u> daily
- 6. What is the best part about this program in your opinion? <u>the nutrient classes to help of set better</u> wherstanding of a healthler way to east
 7. Do you give your permission to use these comments on our website?
- Do you give your permission to use these comments on our website?
 Vesor no

Please sign if yes: Comelu's Dekle Date: 08/01/2013

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I really an thankful for this program, It helped me

Charge my life and probably some help me live longer, I feel So much better with thes lifesyle change, I learned it's not really about dieting but learning, and maintaining better eating habits and exercising regarily. I learned to eat healthler and how to manage portion control. With my awareness now it really becomes easier and will be part of my lifetime routines, It only takes determination and discipline. Thanks Please take a moment and answer the following questions:

- 1. Please circle your gender: Male or Female,
- 2. What medical conditions do you have?__None____
- 3. How much weight have you lost?__34 lbs__
- 4. How many inches around the waist have you lost? ____6.5"___
- 5. What labs values have improved during this program? Please give before and after values if possible

	BEFORE	AFTER
Total Cholesterol	237	172
LDL	156.3	114.7
HDL	63.9	49.7
Triglycerides	84	38
Blood Glucose	100	86
HgbA1C	5.8	5.3

6. What is the best part about this program in your opinion? The tips of what to eat regardless of whether you are eating at home or eating out and eating low fat and high fiber. I have really learned that I need to read labels of food that I buy. I have also learned how important it is to measure food.

7. Do you give your permission to use these comments on our website?

yes or no Please sign if yes:

July 2013

Mary Screws