

Presenter Disclosure

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The following Personal Financial Relationships with commercial interests relevant to this presentation existed during the past 12 months:

No relationships to disclose



Learning Objectives

- ➤ Identify environmental barriers to physical activity for rural women
- ➤ Appraise rural women's weight maintenance experiences and outcomes



Background

- Cardiovascular disease (CVD) is leading cause of death in adult women
- If maintained, weight loss of 5-10% of initial body weight can result in clinically meaningful CVD-related health benefits
 - Most who lose weight return to original weight within 5 years





Background

- > Rural women more likely to:
 - > Be physically inactive and obese
 - Have limited access to safe environments for physical activity
- In Nebraska (2012), 57.6% of adult Nebraska women & 64.2% of women in southeast Nebraska were considered overweight or obese

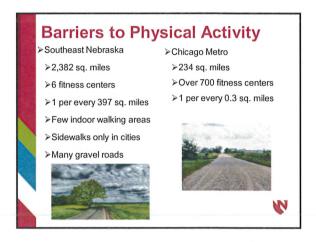


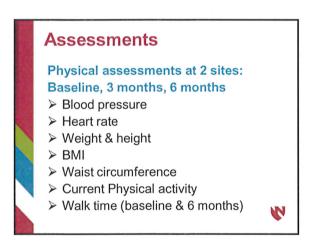
Study Purpose & Design

- Six month pilot study to evaluate the influence of online interventions to maintain initial weight loss by promoting physical activity to improve health management and health status among rural midlife (aged 40 to 64) women
- 52 women who reported losing at least 5% of body weight in last 6 months were randomized to two groups:
- > Standard Advice
- > Intervention



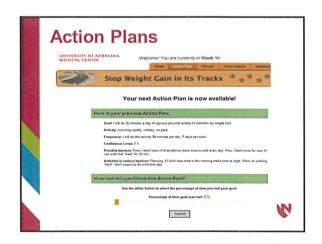


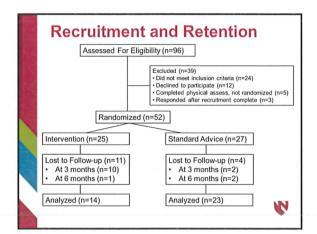












Results

- ➤ All Subjects (n=52)
 - > Average age: 53 (SD = 5.3)
 - > No significant differences between groups
 - > 90% (n=47) married
 - ≥ 90% (n=47) working
 - > 94% (n=49) had health insurance
 - ➤ 100% (n=52) had at least 12 years of education



Results

- ➤ All Subjects (n=52)
 - ➤ Location:
 - > 46% (n=24) lived on ranch/farm or out of town
 - > 54% (n=28) lived in a small town
 - ➤ 31% (n=15/49) had to travel 20 miles or more for emergency medical care



Results

- ➤ All Subjects (n=52)
 - > 83% (n=43) lost weight using diet & exercise
 - > 88% (n=22/25) for intervention group
 - > 78% (n=21/27) for standard advice group
 - ▶ 65% (n=34) had lost weight 3 or more times
 - > 72% (n=18/25) for intervention group
 - > 59% (n=16/27) for standard advice group



Results

- > For subjects completing study (n=37):
 - > 65% (n=24) had lost weight 3 or more times
 - > 71% (n=10/14) for intervention group
 - ➤ 61% (n=14/23) for standard advice group
 - > 93% (n=13/14) of intervention group maintained their weight over the 6 month period
 - 65% (n=15/23) of the standard advice group maintained their weight over the 6 month period



Results

- ➤ Significant differences between groups (favoring intervention group)
 - ➤ Systolic blood pressure (p=.004, η²=.215)
 - \triangleright Weight (p=.044, η^2 =.114)
 - \triangleright BMI (p=.033, η^2 =.127)

Using Cohen's small (0.01), medium (0.06) and large (0.14) values of η^2



Results

- Moderate effects between groups (favoring intervention group)
 - > Diastolic blood pressure (p=.079, η²=.088)
 - > Waist circumference (p=.094, η²=.081)

Using Cohen's small (0.01), medium (0.06) and large (0.14) values of η^2



Conclusions/Recommendations

- Partnerships between universities and public health departments:
 - > Assist in recruitment and retention
 - > Provide opportunities for collaboration
 - > Build capacity to address health issues
 - > Are sustainable
- Analyze intervention burden to determine best fit of interventions for participants
- > Develop targeted strategies for rural women



