#### Intuitive Eating

A novel health promotion strategy for obese women

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# NO RELATIONSHIPS TO DISCLOSE



# INTUITIVE EATING?? WHAT ABOUT...

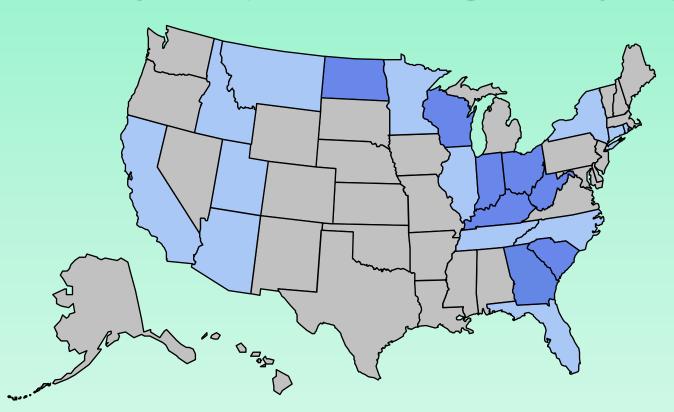
## OBESITY?

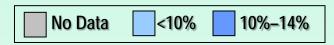
# We have ALL seen the problem....

...probably MANY times!

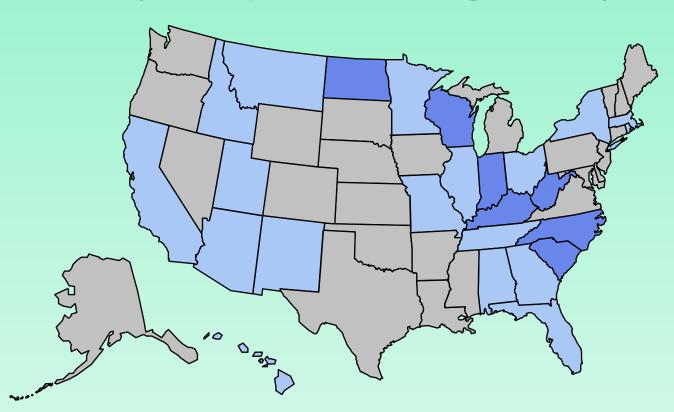






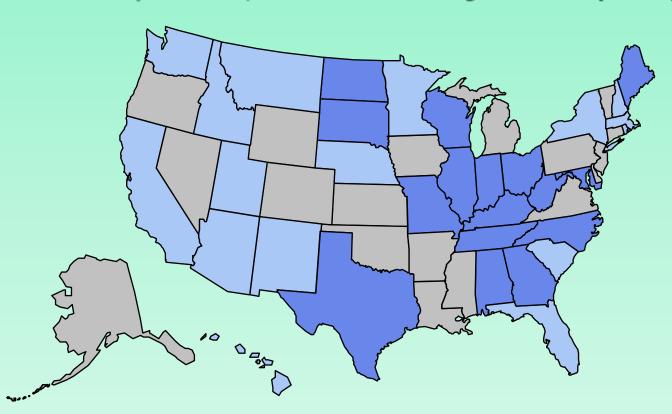






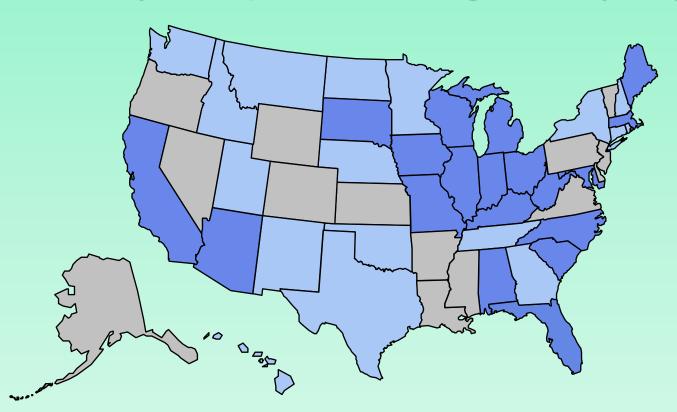






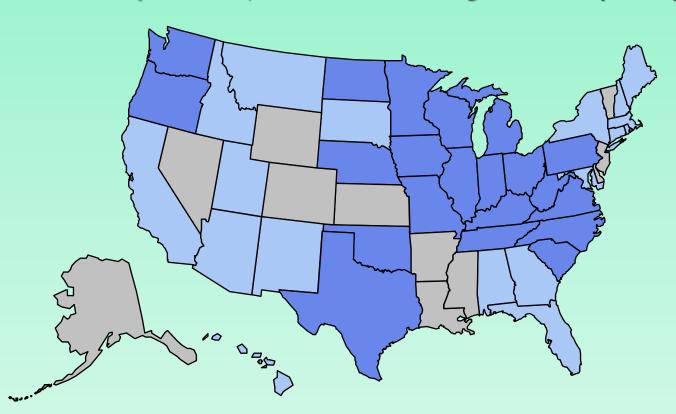


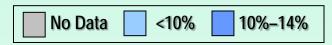




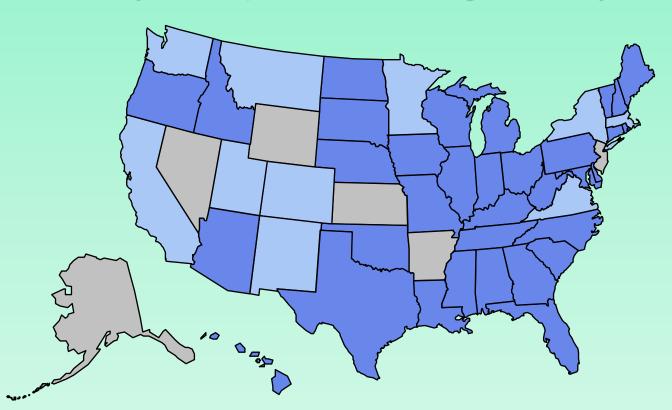






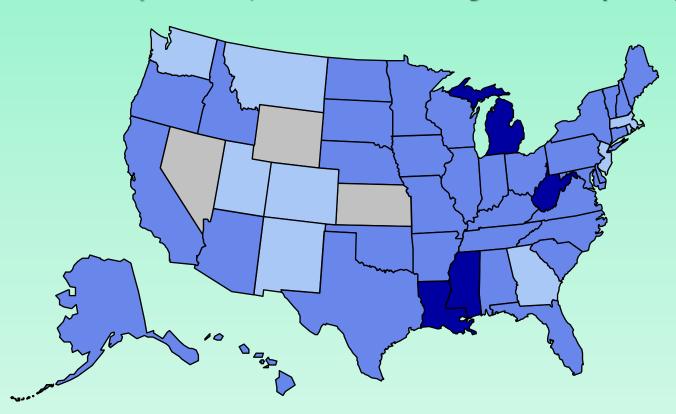


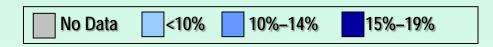




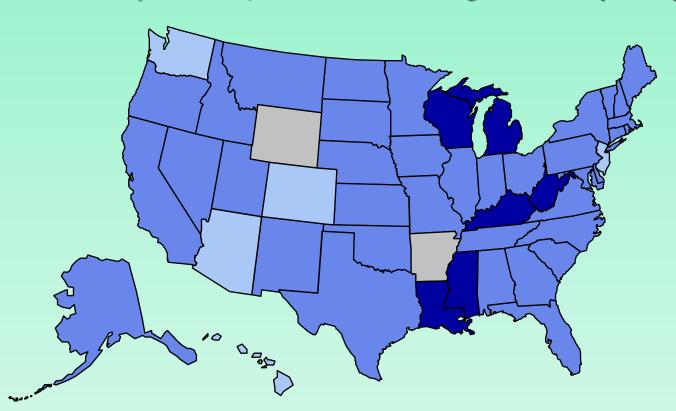


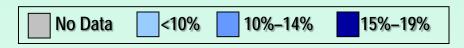


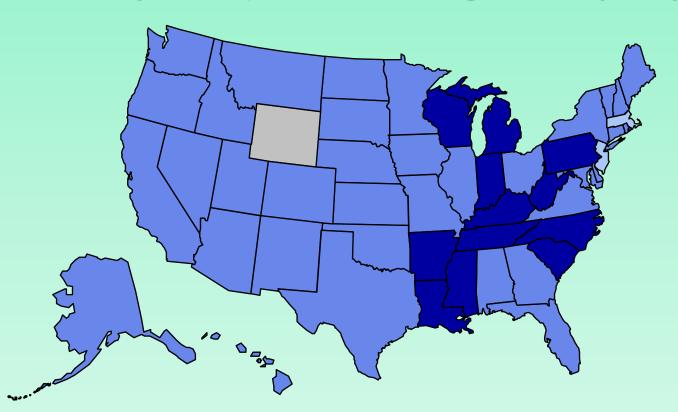






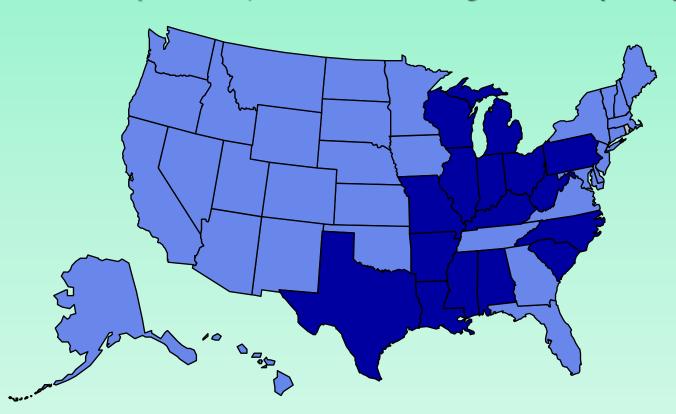






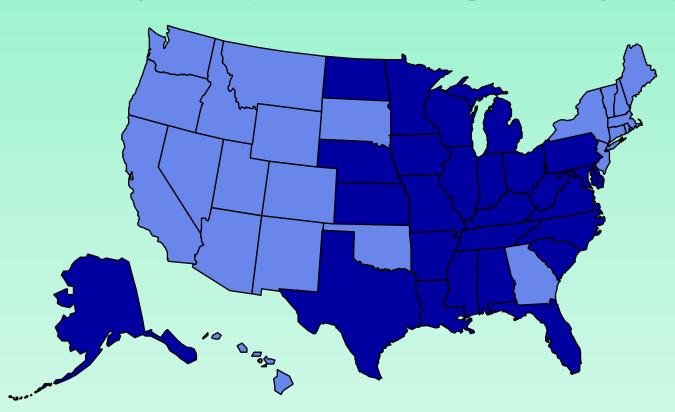


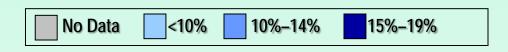




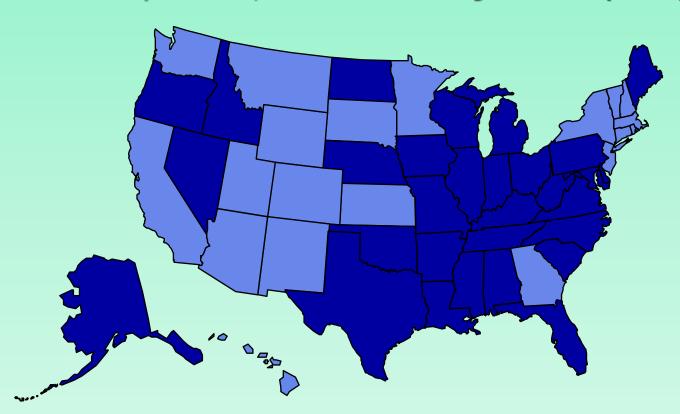






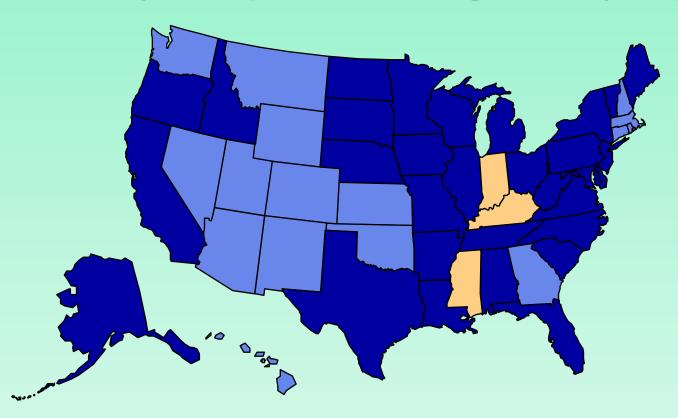


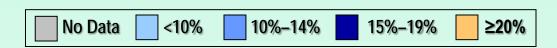




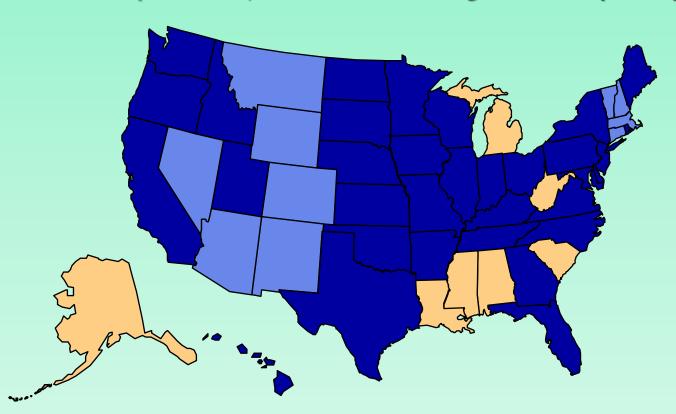


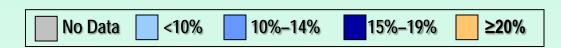




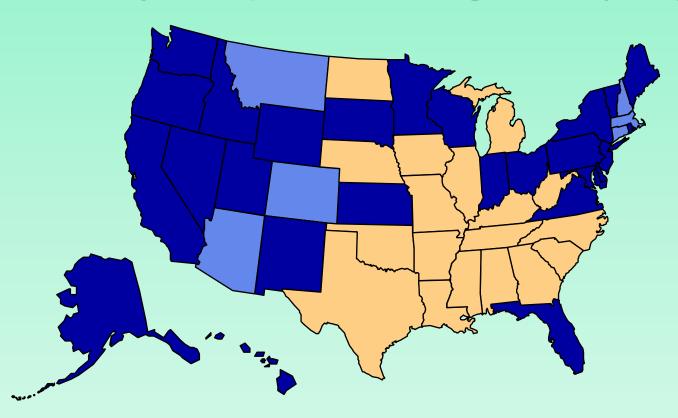






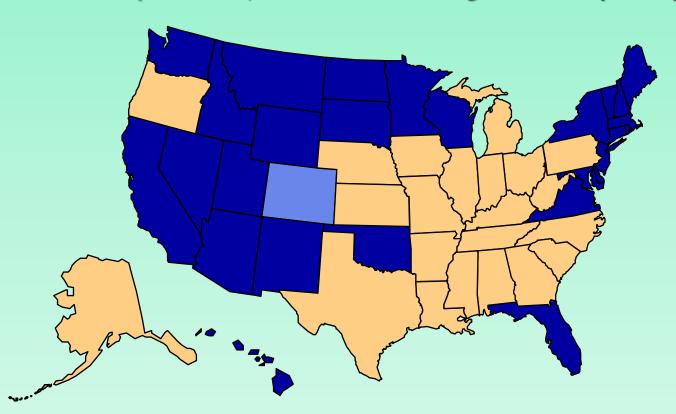






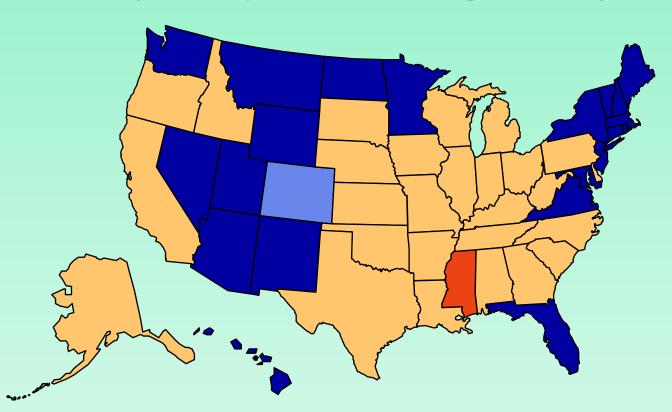


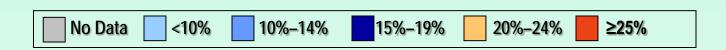




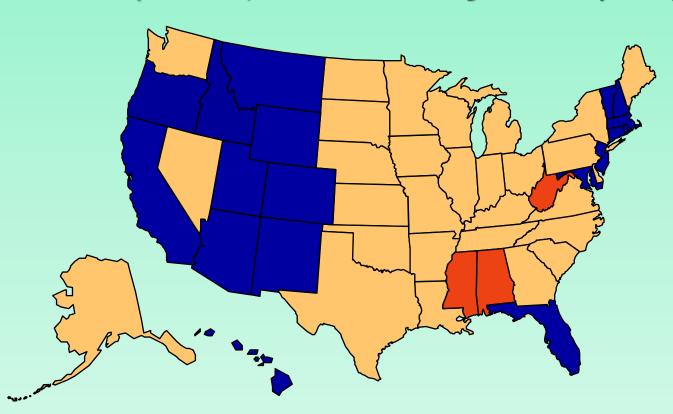


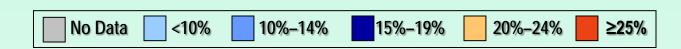




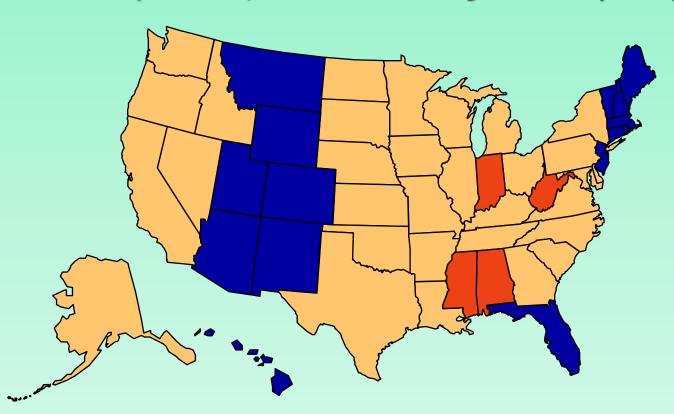


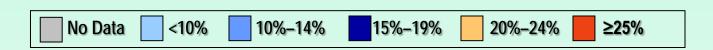




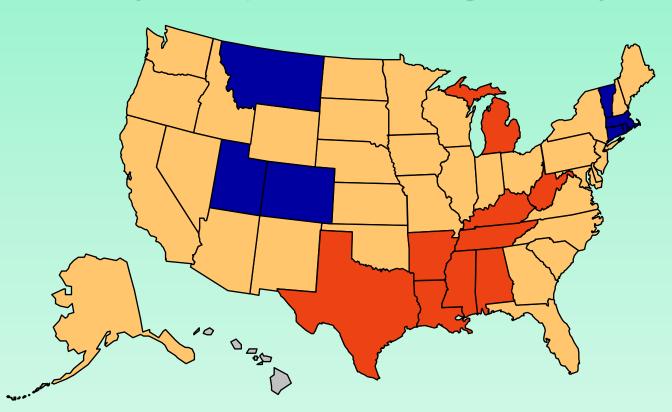


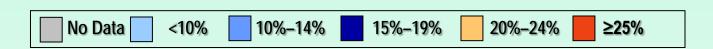




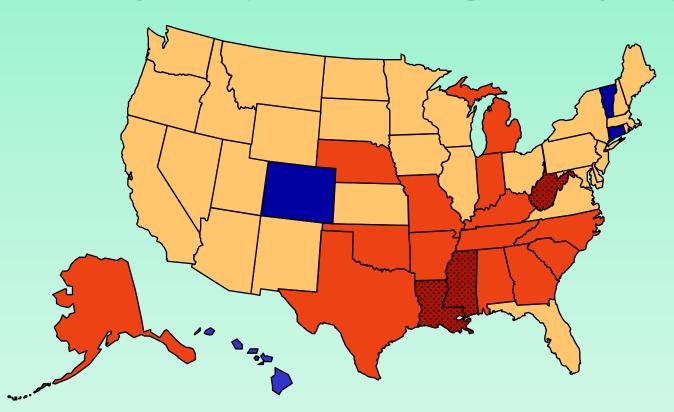














#### Is there a solution?

Current: Weight-centered paradigm

New: Weight-neutral paradigm





#### Weight -centered paradigm

Equates thinness with good health and fatness with poor health



### Weight-Centered Paradigm

- > Assumes:
  - o Calories in ——— Calories out
  - Weight loss for overweight or obese people will lead to improved health
  - Sustained weight loss is achievable for everyone with enough will power and motivation





#### Weight-neutral paradigm

Promotes health for ALL sizes and focuses on the adoption of healthy lifestyles for the sake of physical, mental, and spiritual well-being, rather than weight control



### Weight-Neutral Paradigm

- > Accepts:
  - Natural diversity of body shapes and sizes
- > Recognizes:
  - Health as multi-dimensional
- > Promotes:
  - Intuitive eating
  - Enjoyable physical activity
  - o Health for ALL Sizes



#### Can 'fat' people be healthy?!

- > The evidence says yes...
  - About <u>half</u> of overweight adults and almost <u>one</u> third of obese adults in the US are metabolically healthy<sup>1</sup>
  - Close to 30% of Italian obese adults are metabolically healthy <sup>2</sup>
- See lit review by Sims on the metabolically normal obese<sup>3</sup>

Wildman et al., Arch Intern Med. 2008;168(15):1617-1624
 lacobillis et al., Obesity Research, 2006; 13(6): 1116-1122
 Sims, Metabolism, 2001; 50(12): 1499-1504



# SHIFTING THE FOCUS....



# AWAY FROM WEIGHT

## TOWARD HEALTH REGARDLESS OF SIZE



#### Intuitive Eating

- > More than:
  - the absence of disordered eating
  - avoiding calorie restriction
  - the absence of dieting
- Responding to internal cues
  - Physiological hunger
  - Satiety
- > Savoring and appreciating good food



### Intuitive Eating Principles

- 1. Reject the diet mentality
- 2. Honor hunger
- 3. Make peace with food
- 4. Challenge the 'food police'
- 5. Respect fullness
- 6. Discover the satisfaction factor
- 7. Honor feelings without using food
- 8. Respect your body
- 9. Exercise -- feel the difference
- 10. Honor your health



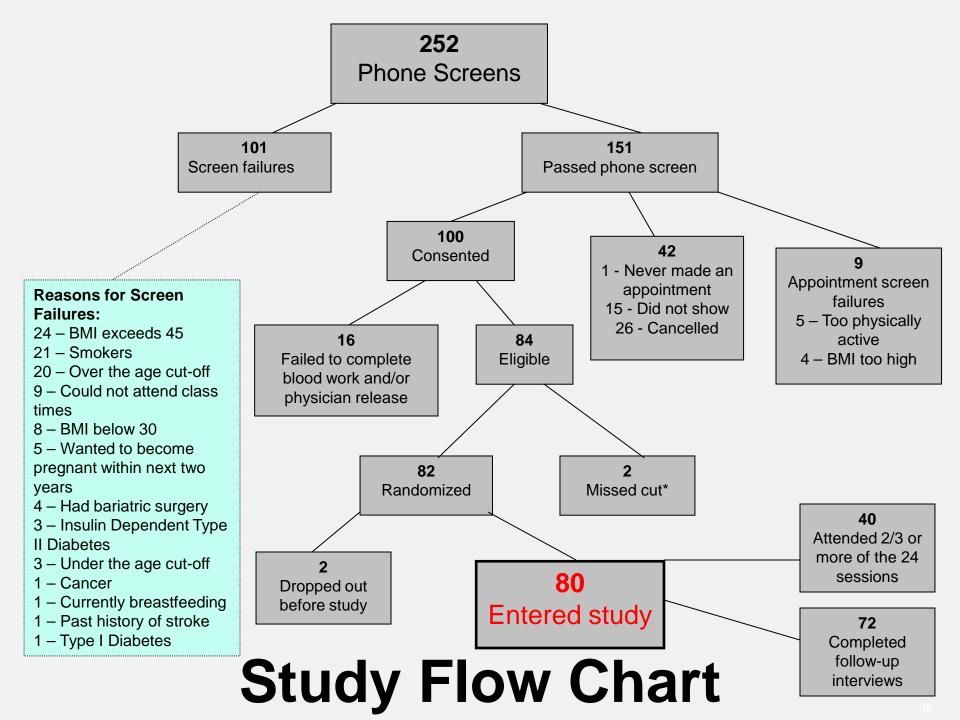
#### Intuitive Eaters

- Tend to have:
  - Higher self-esteem
  - Proactive coping skills
  - Greater optimism
  - Greater satisfaction with life
  - Lower Body Mass Index
  - Less body dissatisfaction



# Our Study

- > Randomized Controlled Trial
- > Standard Care:
  - Behavioral-based weight loss
- > Experimental treatment:
  - Health at every size
- >80 women enrolled
- >24 group sessions
- ➤ Met weekly for 90 minutes





# Participants

- Mean age 39.6 years (range 30-45)
- 70% were married
- 74% had children
- 96% were White
- 65% had at least some college education
- 61% were employed full-time
- Mean household income \$70,873
- Mean BMI 38.6 (range 30.2 44.8)



#### Participant health status

- ➤ Mean Systolic BP: 126.24 mmHg (SD = 10.99)
  - 11% high (>140 mmHg)
- ➤ Mean Diastolic BP: 79.66 mmHg (SD = 8.86)
  - o 11% high (≥90 mmHg)
- Mean HDL: 46.91 (SD = 13.20)
  - o 32.5% low (<40)
- Mean LDL:120.09 (SD = 33)
  - o 12.5% high (≥ 160)
- Mean Total Cholesterol: 197.00 (SD = 40.62)
- > Mean Fasting Blood Glucose: 99.76 (SD = 32.63)
  - o 28.8% above 99



# Participant Eating Behaviors

- 63% engaged in binge eating behaviors
- 41% noted feeling out of control while doing it
- 8% met the clinical diagnosis for Binge Eating Disorder
- 43% were dieting to lose or maintain weight at least "some of the time"
- 24% were eating 2 or more servings of vegetables per day at least "some of the time"
- 46% were eating 2 or more servings of fruits per day at least "some of the time"



#### Measures

- Intuitive Eating Scale
- Rosenberg Self-Esteem Scale
- Three Factor Eating Questionnaire R18
- Depression, Anxiety, Stress Scale
- Eating Disorder Examination Questionnaire
- Red Lotus Health and Well Being Questionnaire
- Stanford Brief Activity Survey



# Intuitive Eating & Psychosocial measures

- Self Esteem (RSES): *r* = .43; *p*<.001
- Depression (DASS21): *r* = -.22; *p*=.052
- Anxiety (DASS21): *r* = -.19; *p*=.088
- Stress (DASS21): r = -.20; p = .073
- Health and well-being status: r= .02; p=.859
- Health and well-being behaviors: r= .28; p=.012



# Intuitive Eating & Disordered Eating

- Uncontrolled Eating (TFEQ-R18): r = -.60; p<.001</li>
- Emotional Eating (TFEQ-R18): r = -.63; p<.001</li>
- Number of days binged (EDE-Q): r = -.25; p=.027
- Weight Concern (EDE-Q): r = -.45; p<.001</li>
- Shape Concern (EDE-Q): r = -.47; p<.001</li>
- Eating Concern (EDE-Q): r = -.61; p<.001</li>
- Restraint (EDE-Q): r = -.10; p<.382</li>
- Global Disordered Eating (EDE-Q): r = -.55; p<.001</li>





#### Behavior-based Weight Loss

- > LEARN (Brownell, K., 2000)
  - <u>Lifestyle</u>, <u>Exercise</u>, <u>Attitudes</u>, <u>Relationships</u>, and <u>Nutrition</u>
  - Gradual and balanced lifestyle change
  - Evidence-based gold-standard for weight control
  - Increase in physical activity
  - Decrease in caloric intake
  - Improved nutrition
  - Primary Goal Weight loss

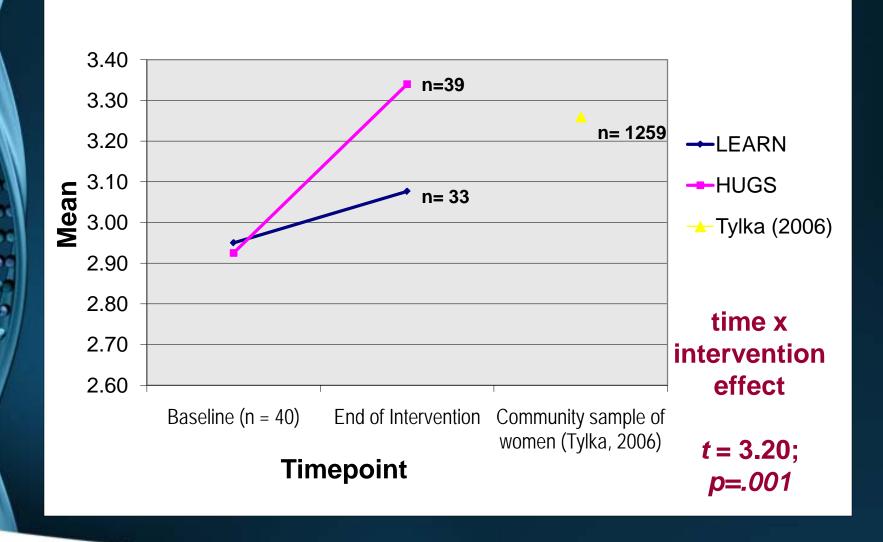


## Health at Every Size

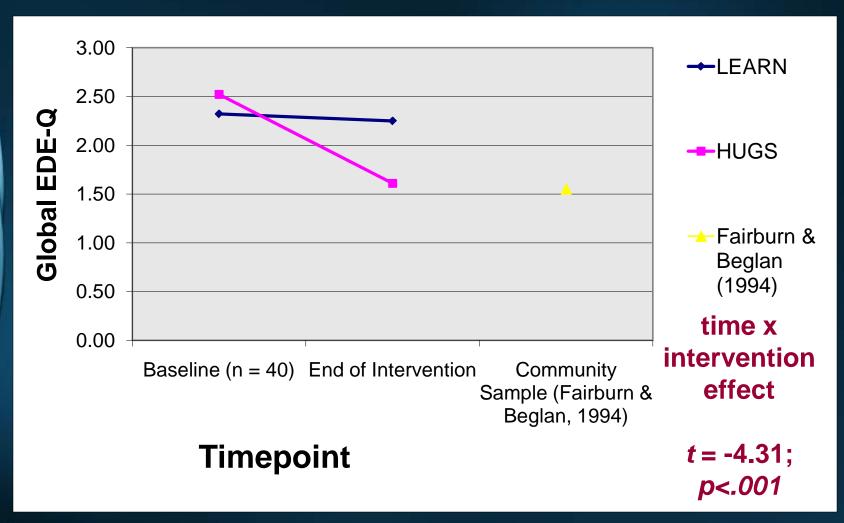
- > HUGS (Omichinski. L., 2007)
  - <u>H</u>ealth focused, <u>U</u>nderstanding lifestyle, <u>G</u>roup supported, and <u>S</u>elf Esteem building
  - Intuitive eating
  - Enjoyable physical activity
  - Improved nutrition
  - Self-care
  - Self acceptance
  - Primary goal Improved health and well-being



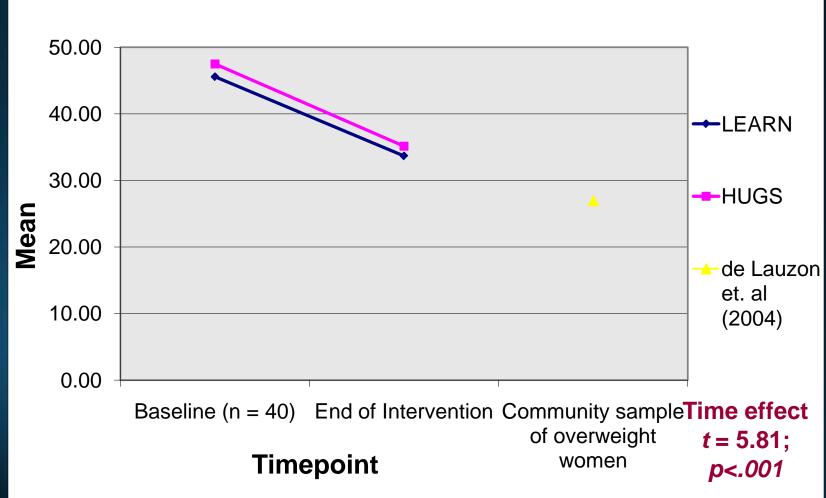




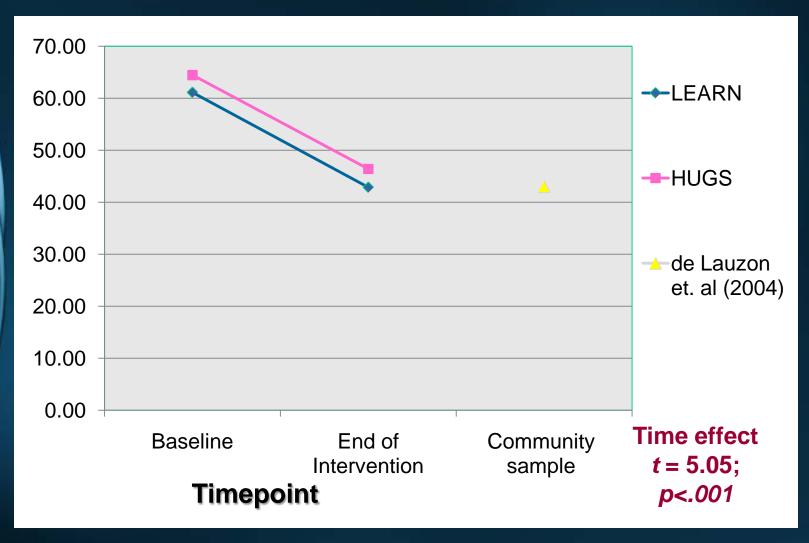




### Uncontrolled Eating

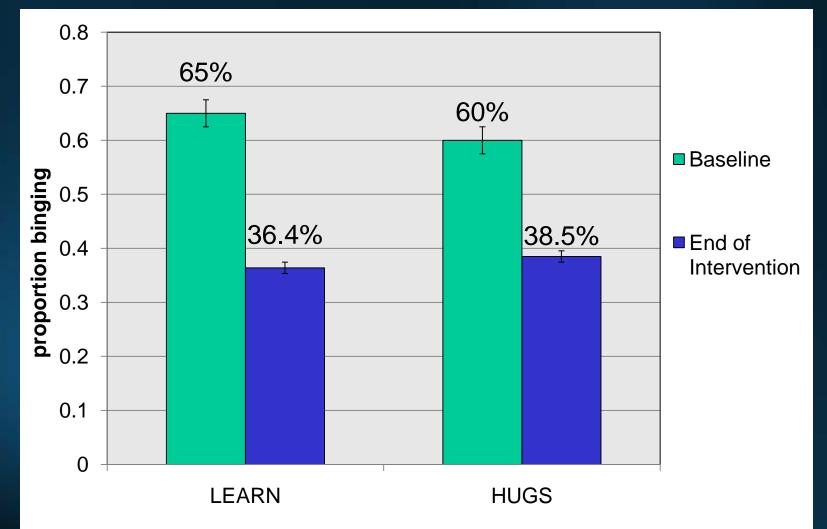




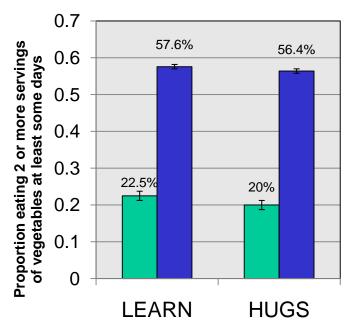




# Binge eating

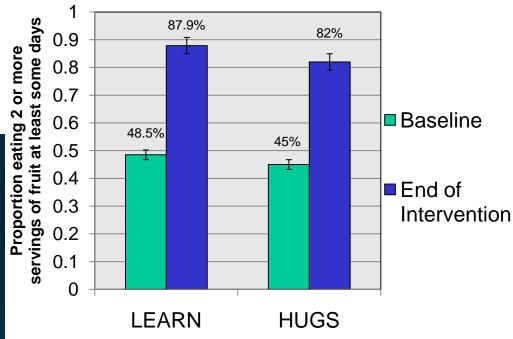


#### Fruit & Vegetable Consumption

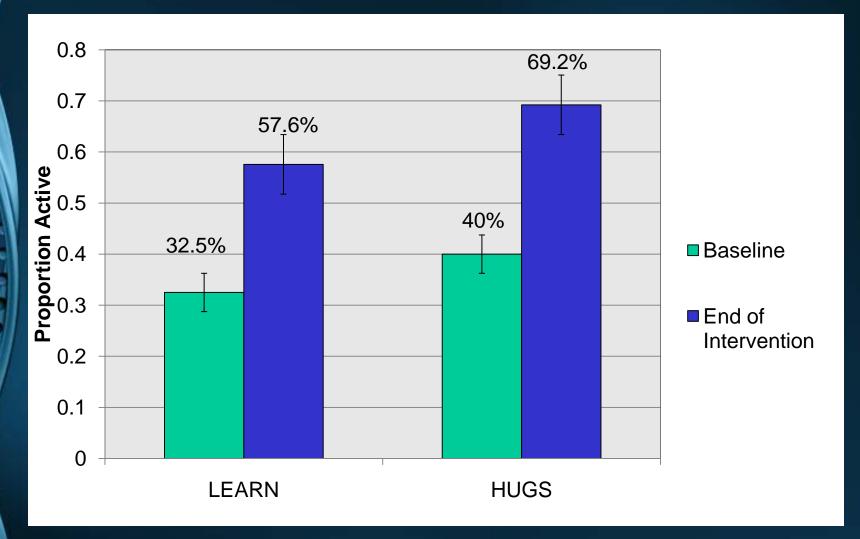


■ Baseline

■ End of Intervention









#### Summary

- Health at every size improved intuitive eating significantly more than weight control
- Health at every size improved global disordered eating scores significantly more than weight control
- Health at every size and weight control improved uncontrolled eating, emotional eating, binge eating, physical activity levels, and fruit and vegetable consumption



#### Conclusion

- Health at every size interventions adopting intuitive eating and body acceptance elicit adaptive eating patterns among obese women
- In light of the limited long term success of weight loss interventions, healthcare practitioners should help their overweight and obese patients learn the principles intuitive eating and health at every size
- Focusing on weight leads to discrimination, body shame and stigmatization
- Focusing on <u>health</u> leads to improved <u>well-being</u>



#### Many thanks to my collaborators & supporters

- James Ku, MD Co-Principal Investigator
- Kelly Bliss, MEd HUGS facilitator
- Ann Wellock, RD LEARN facilitator
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- Heather Close, BS Study Coordinator follow-ups
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I would also like to thank the Association for Size Diversity and Health, and the work of Dr. Linda Bacon for helping me clarify and further understand the health at every size approach, as well as the importance and need for promoting the shift to the weight-neutral paradigm.

For further information, please see:

http://www.sizediversityandhealth.org/

http://www.haescommunity.org/

http://www.lindabacon.org/

