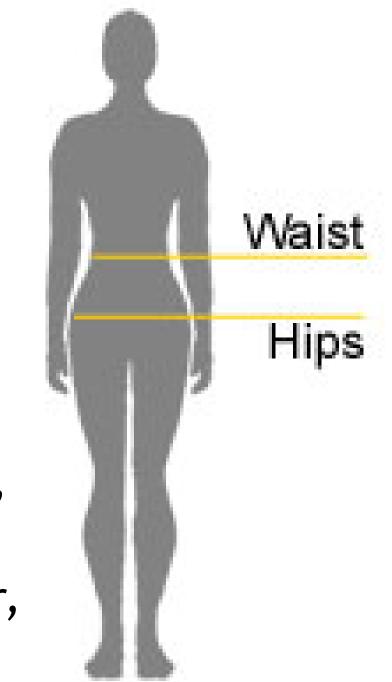
# EFFECTS OF WAIST-TO-HIP RATIO ON SEXUAL OBJECTIFICATION AND SEXUAL ASSAULT

# BACKGROUND

Existing work on waist-to-hip ratio (WHR) Women with relatively low WHRs:

- are more healthy (e.g., lower rates of diabetes, heart disease; Bjorntorp, 1988, 1991b)
- appear more youthful (Kaye, et al., 1990)
- have greater reproductive success and fertility (Barber, 1995; Kaye, et al., 1990)
- are rated as more attractive (e.g., Furnham et al., 2001, Singh & Luis, 1995).
- Are evaluated as more sexually desirable (Barber, 1995)



In sum, women with relatively lower WHRs possess **greater mate quality** relatively to women with higher WHRs

# STUDY 1 - PURPOSE

We aimed to investigate whether the previously documented effects of WHR on mate quality would translate into differences in expectations and treatment of women based on WHR

Main Effect Hypothesis: Specifically, because women with relatively lower WHRs possess greater mate quality and are evaluated as more sexually desirable we predicted they would more sexually objectified

Interaction Hypothesis: We also investigated whether participant gender and WHR interacted to predict sexual objectification ratings

 Because mate quality is relevant to reproduction these effects of WHR on sexual objectification may be stronger for men than women

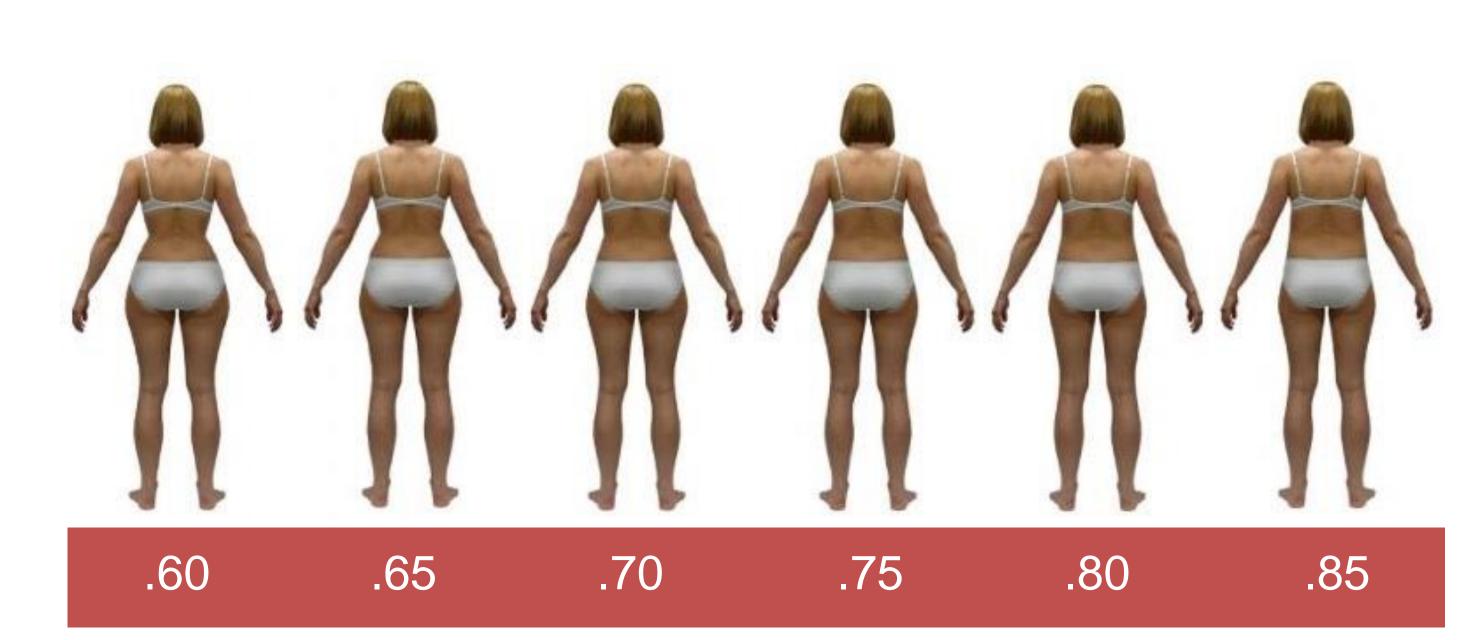
# STUDY 1 - METHOD

### Participants:

• Recruited 75 online participants (49.3% female)

#### Procedure:

• Viewed 6 BMI matched (21) targets with varying WHR from .6 to .85 (Kościński, 2014)



- Participants evaluated each target on 15 questions assessing interpersonal sexual objectification ( $\alpha$ = .96; adapted from Kozee, Tylka, & Augustus-Horvath, 2006)
  - Body evaluation
  - Unwanted sexual advances

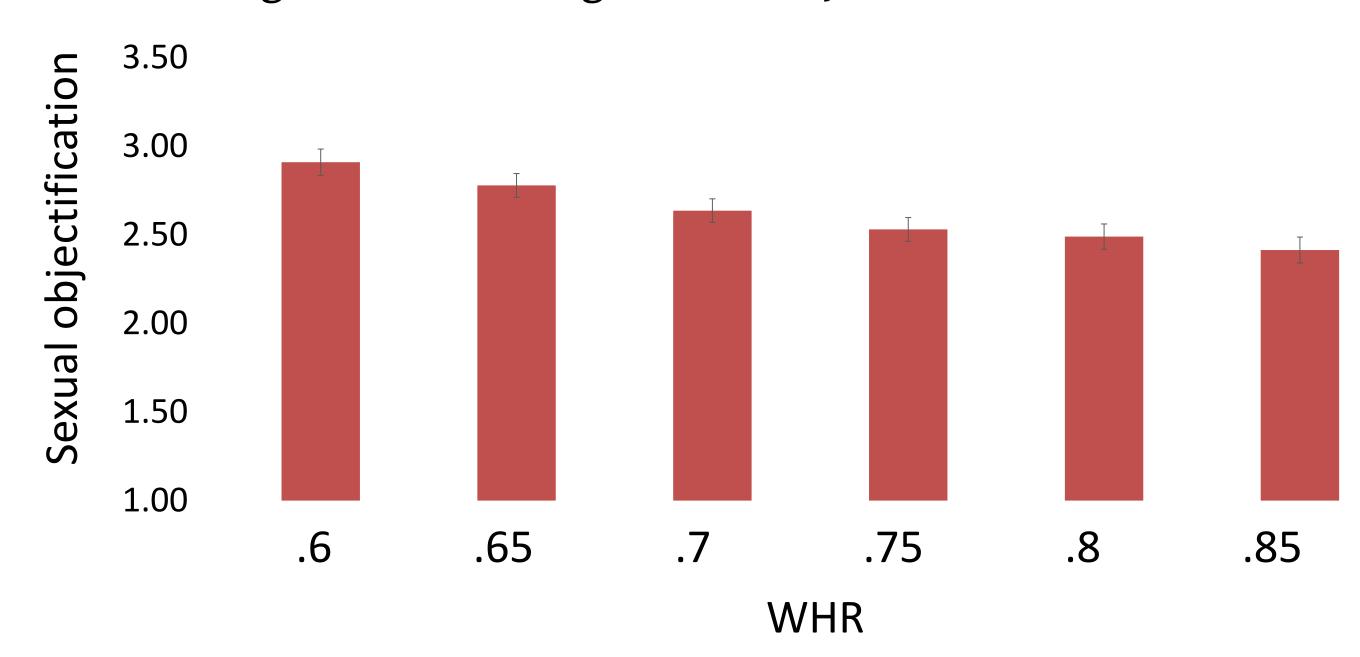
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# STUDY 1 - RESULTS

6 (WHR) x 2 (Participant gender) mixed model ANOVA on sexual objectification

- WHR had a significant effect on ratings of sexual objectification, F(5,365)=23.05, p<.001,  $\eta p^2=.24$
- Not qualified by an interaction with participant gender  $F(5, 365) = .93, p = .46, \eta p^2 = .01$ 
  - Because In Study 1 we are assessing general perceptions of the target (not the participants own feelings about the target) men and women might evaluate targets similarly.



# STUDY 2 - PURPOSE

If low WHR targets are seen as both more sexually desirable and more likely to be subjected to unwanted sexual advances – Do these evaluations translate into differential treatment following a reported sexual assault?

Main Effect Hypothesis: Because women with relatively higher WHRs are perceived as less desirable and less likely to be victims of sexual harassment this could translate into their claims being taken less seriously or even victim blame following a reported sexual assault

<u>Interaction Hypothesis:</u> We also investigated whether participant gender interacted with WHR to predict responses to sexual assault claims

Because mate quality is relevant to reproduction the effects of WHR on evaluations
of purported sexual assault may be stronger for men than women

# STUDY 2 - METHOD

#### **Participants:**

- Recruited 387 online participants
- Excluded participants
  - Failed the attention check
  - Completed the study in under 231.60 seconds (1 SD below mean)
  - Did not disclose their gender
- 335 usable participants (57% female)

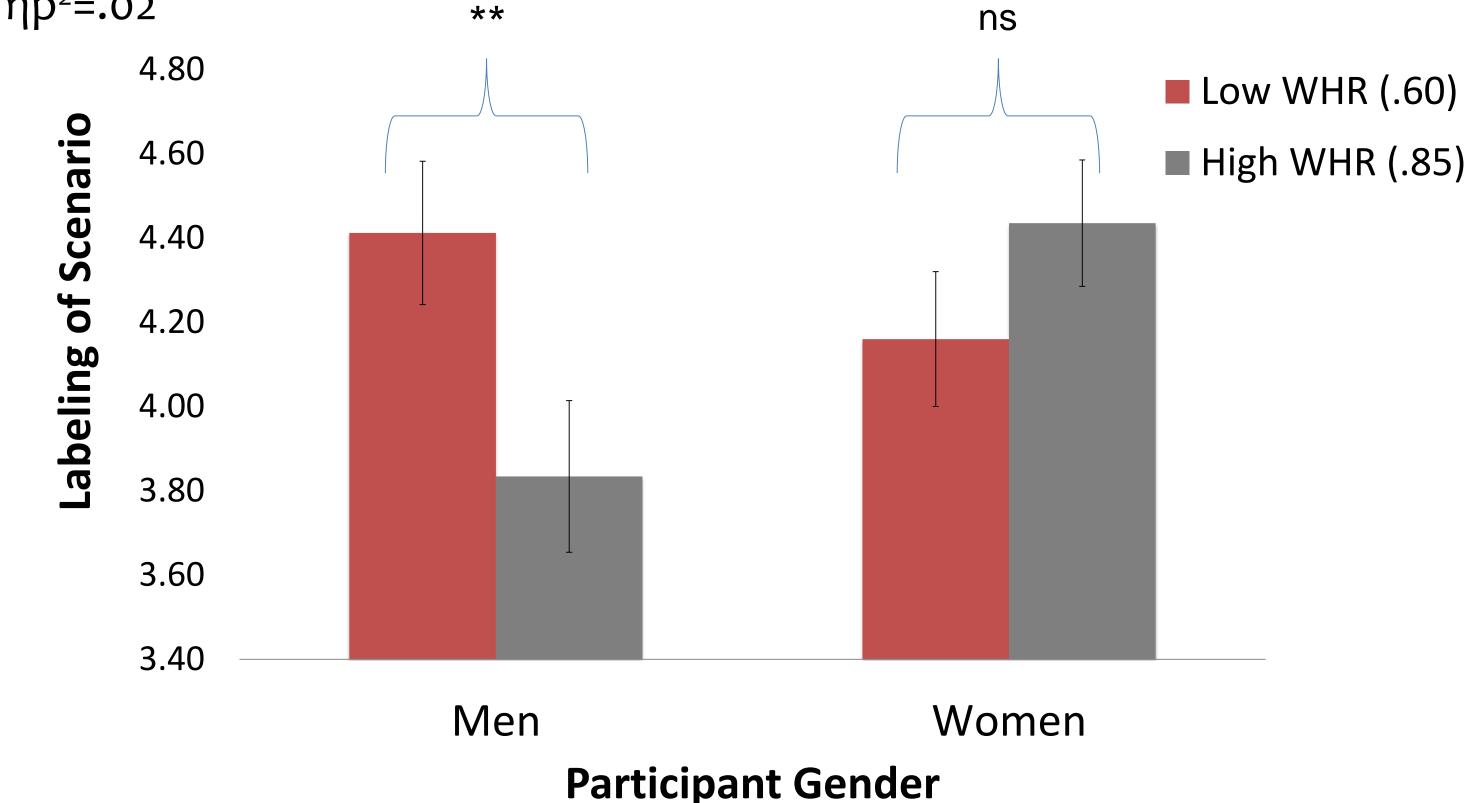
# **Procedure:**

- Viewed image of either low (.60) or high (.85) WHR target from Study 1
- Read vignette about a reported sexual assault from perspectives of victim and perpetrator (adapted from Piatak, 2015)
- Labeled the incident ( $\alpha$ = .95; Koss & Gidycz, 1985; Messman-Moore, et al., 2010)
  - Rape
  - Sexual Assault
  - Non-Consensual
- Assessment of Victim Blaming ( $\alpha$ = .90; adapted from Abrams, Viki, Masser, & Bohner, 2003)
- Completed Updated Illinois Rape Myth Acceptance Scale ( $\alpha$ = .92; Payne, Lonsway, & Fitzgerald, 1999; McMahon & Farmer, 2011)

# STUDY 2 - RESULTS

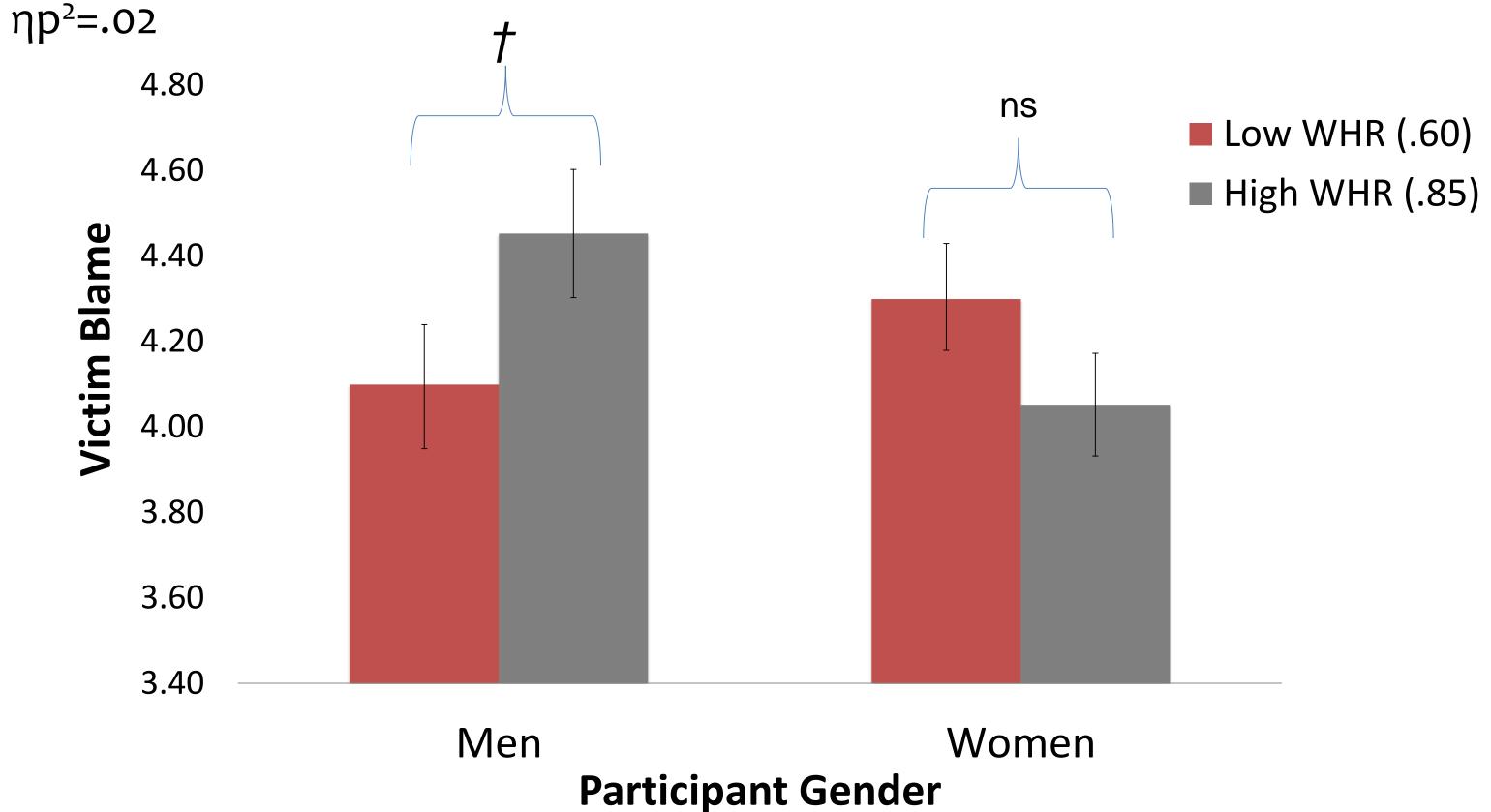
All analyses reported control for individual differences in rape myth acceptance Labeling the Event:

- 2 (WHR Condition) x 2 (Participant Gender) between subjects ANOVA
- No main effect of WHR, F(1,330)=.85, p=.357,  $\eta p^2=.00$
- Interaction of condition and participant gender, F(1,330)=6.74, p=.010,  $\eta p^2=.02$  \*\*



#### Blaming the victim:

- 2 (WHR Condition) x 2 (Participant Gender) between subjects ANOVA on blaming the victim
- No main effect of WHR, F(1,330)=.16, p=.69,  $\eta p^2=.00$
- Interaction of condition and participant gender, F(1,330)=5.04, p=.025,



### GENERAL DISCUSSION

#### Overview

- As WHR decreases perceptions of sexual objectification increase
- Men were less likely to take claims of assault seriously and blamed the victim more when victims had a relatively higher WHR; WHR affected the judgments of women less – and descriptively in the opposite direction Implications
- Disclosures of sexual assault
  - Reactions to disclosures of sexual assaults have serious psychological consequences for the victim (e.g., PTSD symptomology; Ullman & Peter-Hagene, 2016)
- Court cases involving of sexual assault
  - Decisions of guilt in sexual assault cases may be influenced by victims body

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