

2019

# Weight Loss and Self-Monitoring among Young Men in a Technology-Driven Weight Loss Intervention

Jean M. Reading  
*Virginia Commonwealth University*

Jessica G. LaRose

Follow this and additional works at: <https://scholarscompass.vcu.edu/gradposters>

Part of the [Health Psychology Commons](#)

## Downloaded from

Reading, Jean M. and LaRose, Jessica G., "Weight Loss and Self-Monitoring among Young Men in a Technology-Driven Weight Loss Intervention" (2019). *Graduate Research Posters*. Poster 23.  
<https://scholarscompass.vcu.edu/gradposters/23>

This Poster is brought to you for free and open access by the Graduate School at VCU Scholars Compass. It has been accepted for inclusion in Graduate Research Posters by an authorized administrator of VCU Scholars Compass. For more information, please contact [libcompass@vcu.edu](mailto:libcompass@vcu.edu).



**VCU**

School of Medicine

# Weight Loss and Self-Monitoring among Young Men in a Technology-Driven Weight Loss Intervention

Jean M. Reading & Jessica Gokee LaRose, Department of Health Behavior & Policy

## Background

Young men with obesity have double the mortality risk compared to young men with a healthy weight

- Challenging to recruit for behavioral weight loss (BWL) programs
- Low concern about weight gain relative to women

Young men might have different needs for weight loss

- Motivated to lose weight to improve physical fitness and appearance

Emerging evidence suggests young men might prefer self-guided and low touch interventions, but limited evidence exists as to potential effectiveness

## Objective

Examine young men's performance in a technology-driven behavioral weight loss trial adapted specifically for young adults—relative to young women

## Methods

### Procedure

- Data drawn from ongoing RCT targeting young adults (18-25 years, BMI 25-45 kg/m<sup>2</sup>)
- Participants were recruited using a multi-method approach using generic and male-targeted ads
- Participants were randomized to one of three arms—all received a 6-month technology mediated intervention with content adapted for young adults

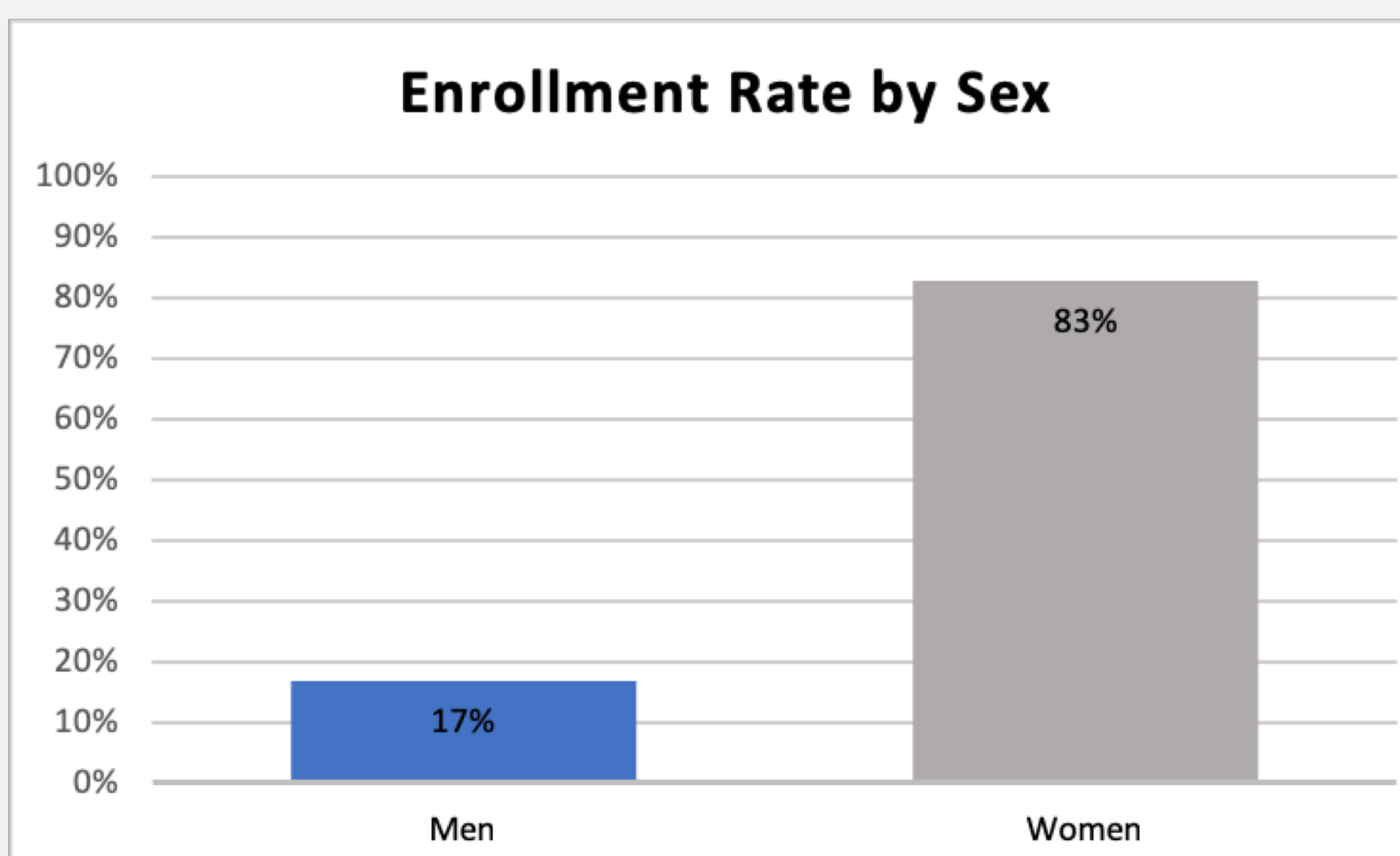
### Measures

- Weight change at 3-months (fasting weight objectively assessed in-clinic at baseline and 3 months)
- Self-monitoring
  - Days of self-weighing (captured via Bluetooth scale)
  - Days of dietary self-monitoring (captured via self-monitoring app)

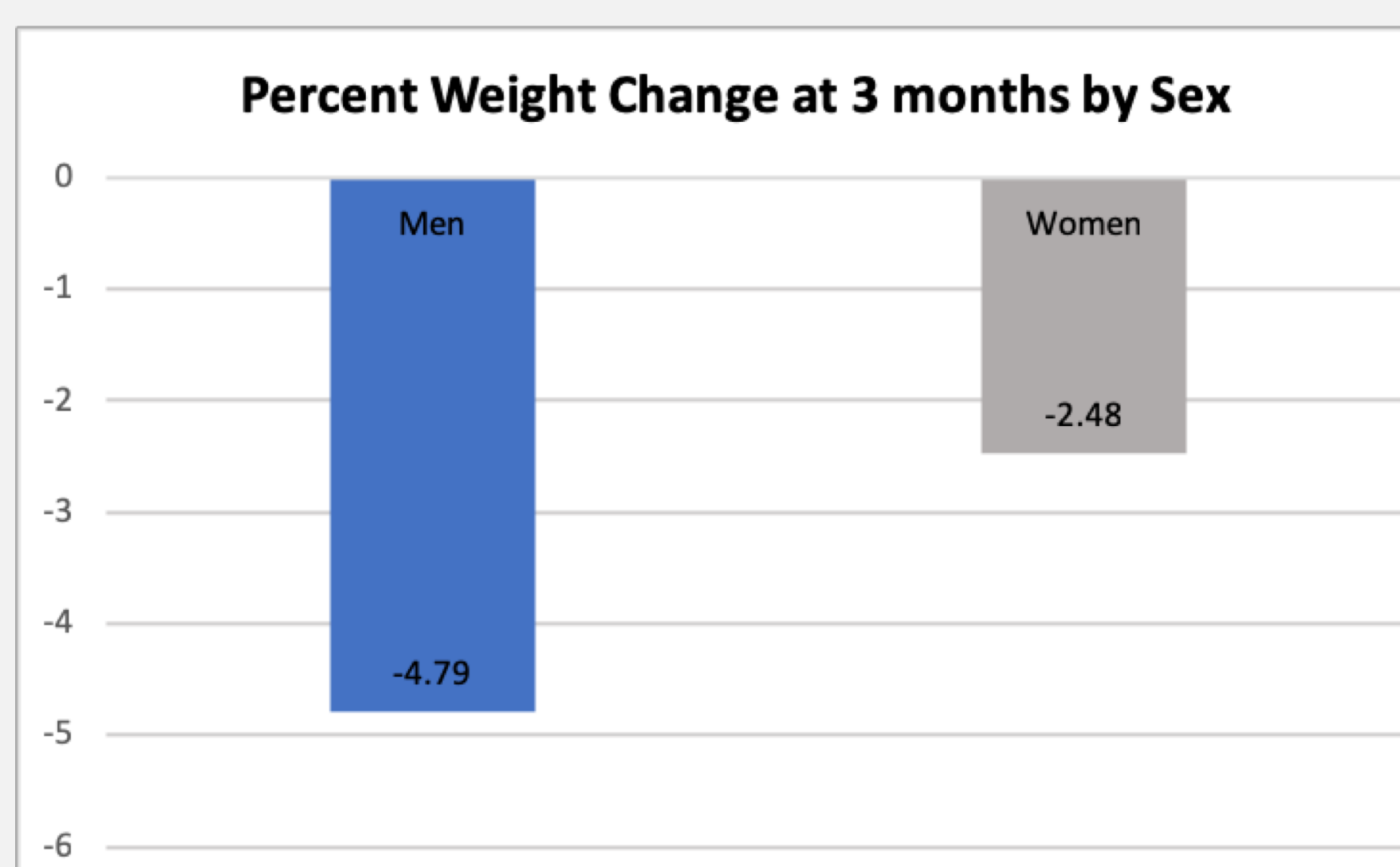
### Data Analysis

Generalized Linear Model was used to compare men and women on percent weight change and self-monitoring. Treatment arm was included as a covariate in all outcome analyses. Descriptive statistics were computed to capture enrollment rates.

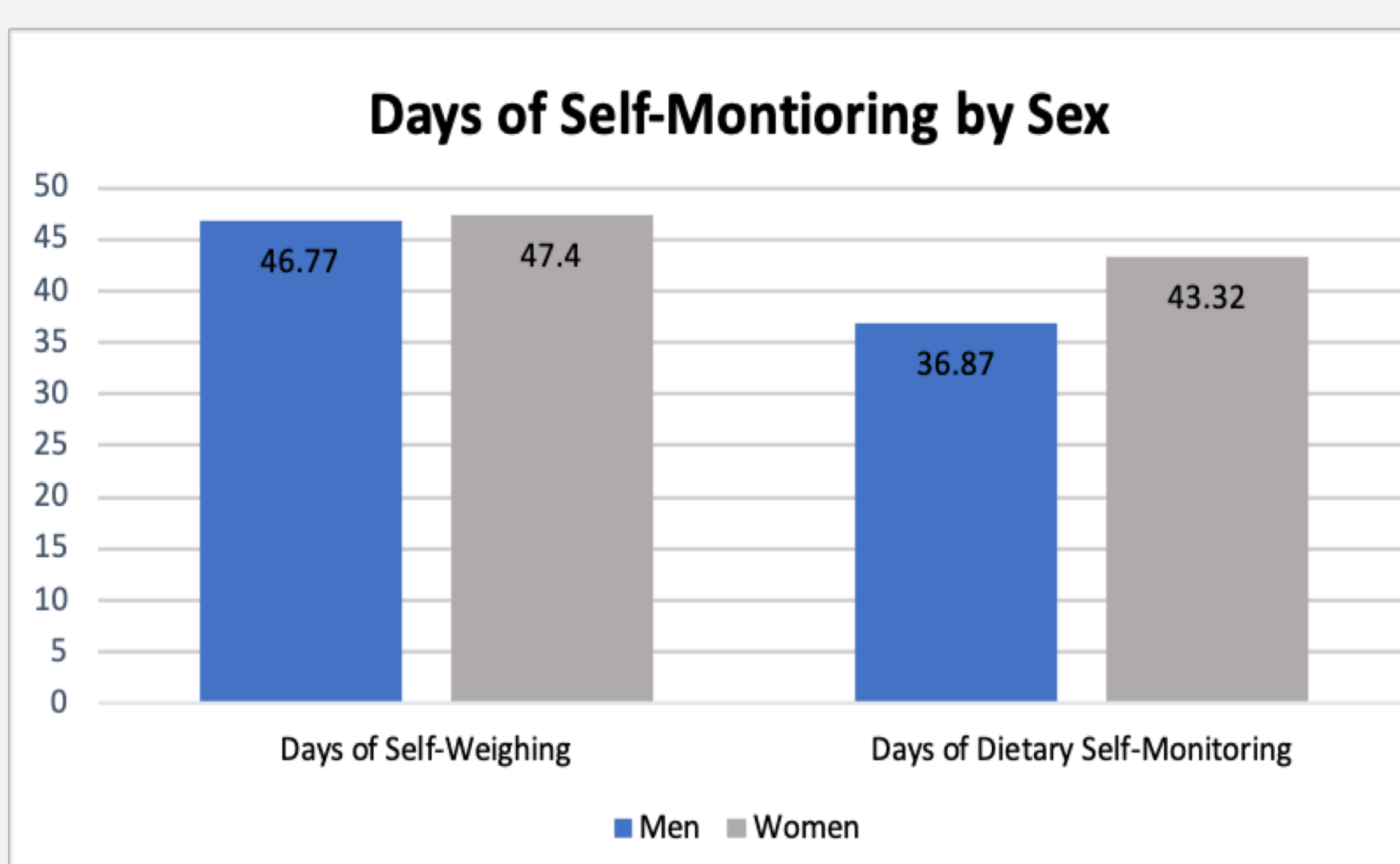
## Results



Men had lower enrollment compared to women, representing 17% of the sample



Men had a significantly greater weight loss than women at 3-months



Men and women had similar number of days of self-weighing and dietary self-monitoring

Demographics (N=184)	Women	Men	P value
Percent weight loss	-2.5 (4.1)	-4.8 (5.1)	.008
Days of self-weighing	47.42 (24.0)	46.77 (24.6)	.88
Days of dietary self-monitoring	43.42 (22.6)	36.87 (24.3)	.15

## Discussion

- Enrollment of young men was low even with male-targeted recruitment efforts
- Men lost almost double the weight compared to women, though men and women had similar self-monitoring behaviors
- Findings are consistent with existing literature that men lose more weight than women once enrolled
- Future weight loss interventions should adapt programs to be more appealing for men to enhance enrollment among this high-risk population
- Young men may benefit from a self-guided or low touch intervention

### Limitations

Treatment seeking sample, short-term follow-up, diet and physical activity were not included

### Strengths

Objective assessment of weight and self-monitoring, diverse sample (race, working status) of young adults