INTRODUCTION

• Time is a key barrier to exercise and many exercise programs have high dropout rates.

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- People are more likely to engage in and continue exercise if they work out with more than one other person and receive social support; adults often find it easier to exercise in a group.
- Group-based high-intensity functional training (HIFT; e.g., CrossFit) has been rapidly growing in popularity and can improve health and fitness in less time than moderate exercise.
- HIFT workouts temporally combine aerobic and muscle strengthening exercises in an infinite number of combinations across multiple time domains, averaging about 15 minutes.
- Workouts are led by a certified coach and all exercises are individually scaled as needed.
- Anecdotal reports show that HIFT participation can result in lifestyle changes as well as improved fitness and health.
- However, research studies regarding initiation of and adherence to HIFT are non-existent.
- The Integrated Theory of Health Behavior Change (ITHBC) is based on the premise that behavior change is dynamic and iterative.
 - Fostering knowledge and beliefs, self-regulation skills and abilities, and enhancing social facilitation facilitate the change with engagement in the behavior as the proximal and improved health status as the distal outcomes.

PURPOSE

The purpose of this study was to apply the ITHBC to examine factors related to the initiation of and adherence to HIFT.

METHODS

<u>Design</u>: Purposive selection of 6 HIFT gym owners/head trainers in Kansas and Missouri. Gyms varied in type (i.e., university, within YMCA, garage, stand-alone, military, fitness club), had been open 1-11 years and averaged 30 members (84% adherers).

Participants: All participants were white and college educated with 4±3 years of coaching experience; average age was 39±8 years. <u>Measures</u>: 60-minute semi-structured (17 question) interviews <u>Procedure</u>: Interviews were audio recorded, transcribed verbatim, and verified by participants.

- A research assistant thematically coded each interview with NVivo 10 using key concepts from the ITHBC.
- Coding was verified by a second researcher.

Understanding Initiation of and Adherence to High-Intensity Functional Training: An Application of the Integrated Theory of Health Behavior Change

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<u>Positive</u>- increased self-efficacy, desire to learn and experience greater difficulty and variety of exercises

"I think CrossFit is still edgy enough and intense enough or whatever they want to call it, and that gets people excited."

"I just always try to make them feel like I am continually trying to educate myself to make them better."

"...there is always something new to learn...Yeah the variety, it's always changing."

<u>Negative</u>- lack of knowledge or motivation, feeling intimidated

"So, if someone says, 'Man, this is going to be impossible...' there is already this little cycle of defeat cycle starting...all those things contribute to someone's idea of whether they are going to crush this workout or whether it's going to crush them."

"They are just intimidated in general. I mean it is overwhelming. You consider how intense it is."

"Some don't like the intensity...The community can drive certain people out, and take others in. It's for you or it's not."

Positive- intrinsic motivation and drive, competitiveness, tracking and seeing progress, ability to maintain emotions when dealing with intensity, pain or frustration

"We find what you are bad at and what you are good at, so you have your good days and your harder days."

"I think CrossFit got it right when they did all the tracking so people keep score and can see when they make progress or not. I think that motivates them."

Competing in outside events, dietary changes, adopting new clothing, getting tattoos

"One of our missions is to take your fitness outside of the gym...you know, enter a Tough Mudder, enter a 5K...so you have developed this fitness, but now go take it and apply it and do something with it."

"Females that haven't been athletic suddenly feel like athletes; which is really neat. They have a different awareness of their bodies and what they can do."

"It's more than a workout. It's a lifestyle change, community, diet, and food plan.'



The most commonly stated reasons for initiating HIFT included the social or community aspect (their friends or family were doing it, they wanted to try something new and be in a team-oriented situation) and desire for results (to improve something about themselves). Adherence was facilitated by support from the community and seeing results. A key reason that people did not initiate HIFT was the "intimidating culture," and a lack of adherence was often attributed to a lack of congruence between the individual's goals, their personality and the culture, as well as monetary cost.

Taking steps to reduce intimidation and cost, facilitate realistic goals, increase social support, and improve coaching may help improve HIFT initiation and adherence.

