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4-14-2023

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Recommended Citation

Repository citation: Kowalski, Alec W.; Rosiek, Sophia K.; and Ibrahim, Adam H., "Temporal Analysis of Former High School Athletes' Perceptions of Fitness as They Enter College" (2023). 22nd Annual Celebration of Undergraduate Research and Creative Activity (2023). Paper 21. https://digitalcommons.hope.edu/curca_22/21 April 14, 2023. Copyright © 2023 Hope College, Holland, Michigan.

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Temporal Analysis of Former High School Athletes' Perceptions of Fitness Upon Entering College





Abstract

Researchers suggest that physical activity promotion may be necessary to preserve former athletes' long-**Data Collection:** term health and transition out of sport in retirement. Exploratory research has revealed that the fitness Participants were freshmen college students recruited at The University of Tennessee, perceptions (a known contributor to exercise behavior) of former high school athletes (FHSAs) who do not Knoxville, who were at least 18 years old, devoted a minimum of 20 hours/week to continue sports in college fluctuate over the course of their freshman year. To inform potential intervention athletics in high school, and were not playing at the varsity or club level in college at the efforts in this population, the purpose of this study was to explore why FHSAs' perceptions of fitness vary over their freshman year of college. Methods: Participants completed eight online surveys over their first time of the study. During the 2020-2021 school year (their first year of college), they year of college, within which they explained their present perceptions of their fitness via an open-ended completed eight online surveys disseminated via QuestionPro, within which they explained response. These responses were thematically analyzed by survey and a frequency analysis was conducted to their present fitness perceptions in an open-ended response. determine how often each theme appeared over time. Results: Thirty-five participants completed the surveys (28 women, 18±0 years). Sixteen themes were constructed that occurred anywhere from 1-7 times (M±SD: 3±2) across the eight surveys. Themes incorporated, but were not limited to, factors including **Data Analysis:** perceptions of body image, maintaining a consistent routine and effort toward exercise, comparison to past Qualitative responses were thematically analyzed (Braun & Clark, 2008) by survey and a athleticism, and varying degrees of acceptance of fitness given barriers associated with their college and frequency analysis was conducted to determine how often each resulting theme appeared sports transition. Conclusion: Common themes mentioned by participants fluctuated over time. Certain themes (i.e., "body image considerations," "putting in effort to maintain exercise," "seeks to improve over time (i.e., by survey). Thematic structures underwent interobserver agreement (IOA; fitness") were constructed across multiple surveys, indicating these factors were more constant in Initial = 93.6%), with additional discussions conducted to reach 100% consensus. contributing to participants' perceptions of fitness over time than others that occurred less frequently (i.e., "desires previous high school fitness," "physical ailments," "no change/continuing usual routine"). Understanding how these factors fluctuate and affect fitness perceptions over the course of FHSAs' Results transition provides key information that will aid in creating more specific and effective behavioral interventions in the future for this population.

Intro

Athletes' shift from high school athletics to collegiate life has abrupt impacts on an individual's physical and mental health (Helms & Moiseichik, 2018; Lubker & Etzel, 2007; Lyons et al., 2018). With physical health becoming a greater concern in the United States (Centers for Disease Control and Prevention, 2023), and the noticeable decline in the mental health of athletes (Lindberg 2021), greater attention is needed toward maintaining former athletes' mental and physical health post-sport.

Although long-term physical and mental health outcomes of retired athletes are largely understudied, it remains a necessity for researchers to address the immediate difficulties athletes face as they transition out of athletics. In particular, continued physical activity is suggested to improve the overall health of retiring athletes (Lubker & Etzel, 2007).

To maximize the effectiveness of future interventions, documenting temporal variations to target health behaviors is strongly recommended by behavioral psychologists (Dunton, 2017; Dunton & Atienza, 2009). Specifically, former athletes indicate that their perceptions of healthy physical activity thresholds change over time as they retired from sport and navigated the various transitions of postsport life (Ferrara et al., 2021). Such perception shifts resulted from, among other factors, changes to their fitness. As such, investigating how former athletes perceive their fitness after retiring from sport, and how these perceptions change over time, may provide an indication of their exercise behavior and plans to remain healthy long-term. By extension, this knowledge could also influence the implementation of programs or strategies to facilitate healthy transitions for athletes out of sport.

Purpose

The purpose of this study was to qualitatively identify the perceived fitness of former high school athletes (FHSAs) as they retire from sport and transition to collegiate life.

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Methods

	Men (n=7)	Women (n=28)	Total (N=35
	(Mean ± SD)	(Mean \pm SD)	(Mean ± SD
Age (years)	18 ± 1	18 ± 0	18 ± 0
Race	Total (%)	Total (%)	Total (%)
White	4 (57.1)	21 (75.0)	25 (71.4)
African-American	1 (14.2)	3 (10.8)	4 (11.4)
Asian		2 (7.1)	2 (5.8)
Multi-Racial	2 (28.7)	2 (7.1)	4 (11.4)
Number of Sports Played in High School			
One	1 (14.2)	7 (25.0)	8 (22.9)
Two	3 (42.9)	13 (46.5)	15 (42.9)
Three	1 (14.2)	7 (25.0)	9 (25.6)
Four	2 (28.7)	1 (3.5)	3 (8.6)

Table 2. Distribution of Themes Over Time

Survey 1	Survey 2	Survey 3	Survey 4	Survey 5	Survey 6	Survey 7	Survey 8
1	2	5	4	5	6	5	7
2	5	6	5	6	7	6	8
3	6	7	7	7	12	7	15
4	7	8	8	8	13	9	16
		9	9	11	14	15	
			10	12	15		
				13			

Tab	le 3. Comprehensive The
1	Theme 1: Pleased with prog
•	"I am happy with what I have
	improvement in my fitness. I
2	Theme 2: Content with con
	"I am satisfied that I have the
	sport, all practices and game
	However, I have been able to
	<i>college."</i> (Survey 1, FHSA_2
3	Theme 3: Disappointed in f
	"I have definitely been in mu
	displeased with my current o
4	Theme 4: Comparison to p
	"Even though I look like I an
	and be able to maintain a go
5	<i>way I was when Cross Count</i> Theme 5: Barriers to exerc
J	"I have been lacking in motiv
	been super stressed out with
6	Theme 6: Body image cons
	"I am only slightly satisfied b
	and legs." (Survey 2, FHSA_
7	Theme 7: The athlete unde
	fitness
	"I could definitely show some
	with the new hours opening l
8	Theme 8: Putting in signific
	"I am very satisfied with the
0	has on my mind and body." (
9	Theme 9: Acknowledges th
	"I am not thrilled with my pe
10	<i>working out that often so I de</i> Theme 10: Extraneous or s
10	<i>"I have not been as active du</i>
11	Theme 11: The athlete acce
11	"it is just obvious that i have
12	Theme 12: Physical ailmen
	"I haven't been able to stay i
	(Survey 6, FHSA_20)
13	Theme 13: Fitness affected
	<i>"I haven 't been working out</i>
	(Survey 5, FHSA_10)
14	Theme 14: The athlete does
	"there's been no exercising"
15	Theme 15: Putting in effort
	"I have become stronger and
16	Theme 16: No change in ex
	"I haven't really changed in a

Factors affecting athletes' perceived fitness fluctuated over time. This study demonstrates the evolving nature of athletes' transition after retirement and highlights certain factors playing more influential roles in affecting their fitness perceptions than others over time. It is not unreasonable to assume that such perceptions may associate with fluctuations in their exercise behavior, and by extension, long-term health post-sport. As such, further exploration into this relationship is warranted. Additionally, future research should apply these results to focus on the development of programs retiring athletes can benefit from to prepare themselves for the PA transition that occurs post-sport life, and to minimize adverse effects that can associate with the transition.



Results

emes with Representative Quotes

ogress but seeks improvement

ve been doing and I love being active, however, I hope to see more

can tell I am not as athletic as I was in high school." (Survey 1, FHSA_015) onsistent routine, motivation, or progress

he motivation to exercise 6 days a week living on my own. When you play a tes are mandatory so you have no choice if you are not feeling it that day. to surpass this negative mindset in order to maintain my health during

fitness or meets themself where they are at; seeks to improve

uch better shape, but I do not feel completely out of shape. I am not happy nor overall perceived fitness." (Survey 1, FHSA_3)

past athleticism; Desires previous high school fitness

m in shape, I do not feel that way. I really wanted to get back into running ood, stable routine that involves running. I want to be able to get back into the ntry had ended and improve from there." (Survey 1, FHSA_2)

ivation to work out recently. I need to get back to a routine, however, have school work." (Survey 3, FHSA_9)

siderations

because my body used to to be way more toned in areas such as my stomach

erstands or addresses the changes that need to occur to improve their

ne improvement in getting back to a regular schedule at the gym, especially *back up.* " (Survey 2, FHSA_9)

icant effort to exercise and maintain a consistent routine

e exercise that I participate in many days of each week and the effect that it (Survey 3, FHSA_21)

he life transition or accepts themselves where they are at

perceived fitness, but I am not unsatisfied with it either. I know I have not been do not expect my perceived fitness to be great." (Survey 4, FHSA_32) situational circumstances

lue to contracting Covid-19" (Survey 4, FHSA_30)

cepts where they're at and does not show a commitment to change en't been working out" (Survey 5, FHSA_9)

in as good as shape as when I was at school due to illness and injury'

by school break

t now that I'm back home. I've been spending all of my time with family"

es not strive to make a change

(Survey 6, FHSA_20) t and improving

d feel more in shape now than I have in awhile." (Survey 7, FHSA_19)

exercise/continuing usual routine

any aspects of exercise." (Survey 8, FHSA_2)

Discussion