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Quality of Health, Physical Activity, and Exercise in Former College Athletes Post-Sport: A Systematic Review

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Quality of Health, Physical Activity, and Exercise in Former College Athletes Post-Sport: A Systematic Review Hope Ryan P. Endres¹, Emily K. Mayfield², Christian A. Clark¹, Paula-Marie M. Ferrara, Ph.D.¹



Abstract

A surplus of modern research in the field of sports science has yielded that, despite their Data Collection: A systematic search was conducted following the Preferred immense athletic and physically active background, former college athletes tend to be less Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) statement well off in aspects of fitness, and exercise than their non-athlete counterparts. These (Moher et al., 2009), and conducted between September, 2023 and April, 2024 previous findings have led to further exploration of the question: what is the quality of health, physical activity, and exercise in former college athletes post-sport? Using a (Figure 1). Peer-reviewed articles were retrieved from PubMed, SportDiscus, and systematic approach based on the Preferred Reporting Items for Systematic reviews and PsychInfo were gathered through Hope College and The University of Tennessee, Meta-Analyses (PRISMA) guidelines, this review explored three online databases Knoxville's library databases. A total of eight key terms in reference to college (PubMed, SportDiscus, and PsycInfo) to collect peer-reviewed articles regarding this athletes (e.g., "athlete", "NCAA") were combined with 13 secondary terms relating question. The original search began in the Fall of 2023 using combinations of eight key to their career completion (e.g., "former", "graduation"). Initial searches yielded an terms (e.g., "athlete", "sport") and 13 secondary terms (e.g., "retirement", "graduation"). article count of 14,894; upon duplicate title removal, the total decreased to 8,737. The initial search yielded a total of 14,664 articles. Following the removal of duplicate articles, title and abstract screenings, and initial read-throughs of articles, 32 articles are Title and abstract screening followed by full reads of the remaining articles led to currently being examined in full. Upon further analysis, the final results will be presented <u>final article count of 15 titles</u>. at CURCA 2024. Results from this review will be utilized to further understand the field **Data Analysis:** Analysis is ongoing, with included articles being categorized based in this topic and guide future directions of behavioral intervention development for retiring on their discussion of health outcomes, exercise/physical activity behavior, and college athletes. quality of life in former college athletes.

Background

College athletes develop a lifestyle scheduled around hours of physical activity through sports training. These athletes spend an extensive amount of time training for sport (sometimes >20 hours/week; Berkowitz, 2016) that ultimately comes to an end upon retirement. Less than 2% of college athletes go on to compete professionally (National Collegiate Athletic Association [NCAA], 2020), therefore it is not unreasonable that athletes may report difficulties as they transition to post-college/post-sport life.

In particular, anecdotally, it is expected that former athletes would follow healthy exercise habits long after their retirement. However, emerging literature shows that former athletes exhibit decreased physical and mental health than their non-athlete counterparts (Kerr et al., 2014; Simon & Docherty, 2013; 2014), which may be attributed to decreases in exercise following retirement from sport. Posited reasons for these consequences include, but are not limited to, effects of injury (Simon & Docherty, 2014) and complex fluctuations in athlete identity (Tracey & Elcombe; 2004).

Considering that regular physical activity aids in maintaining physical and mental health, researchers are calling for its promotion in this population (Refisteck & Brooks, 2018; Ferrara et al., 2023; 2024). However, first a deeper understanding regarding how exercise and health change and relate to one another in former college athletes post-sport is needed to adequately improve this population's long-term wellness.

Purpose

The purpose of this study is to determine the quality of health, physical activity, and exercise in former college athletes post-sport.

¹Hope College, Holland, MI ²The University of Tennessee, Knoxville, TN

Methods

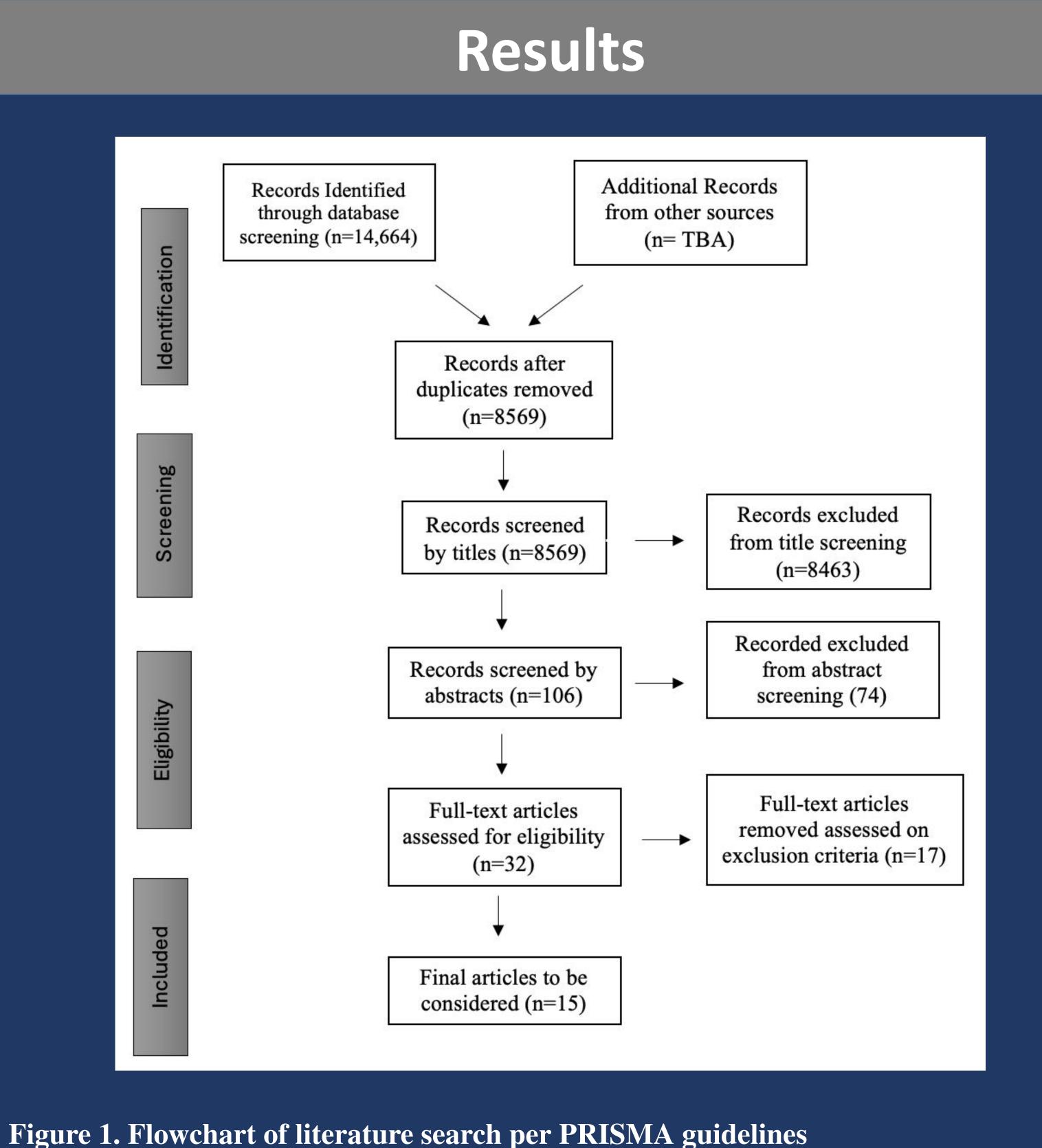


Table 1. Data analyzing fitness, exercise, and quality of health in each article

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Image: Section subtrantImage: Section subtrantImage: Section subtrantImage: Section subtrantImage: Section subtrantFerenser 51, 2021Pereor D J afrieterNSection subtrantSection subtrantImage: Section subt	Simon and Docherty, 2013		x	former Division I athletes than for the	x
enclanationenclanatio	Plateau et al., 2017	after the	x	Exercise motives and behaviors	reasons for exercise did not vary according to
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a Large, Southeat, power five, public anivositije:a stratification anivositije:stratification anivositije:Reference of or function a large repeated by galication by public till than new studies;Current or former MCAA student efficience complication prime in the Moring Out 	Simon and Docherty,		fitness assessment with seven functional measures: cardiorespiratory fitness, arm and leg strength, endurance,	performed worse on five of the seven	х
Length Label and the Woring Ond or PIT ATTES transition programs:Referation studing PA - rawigning PA choices - maxigning PA choices 	DeFreese et al., 2021	a large, Southeast, power five, public	x	satisfaction, - No major differences other than former athletes reported significantly higher life satisfaction and lower social roles difficulty	x
Image: Provide the second state of the second stat	Reifsteck et al. 2022	completed or participating in the Moving On!	X	liberation Subthemes: - navigating PA choices - valuing PA	X
and nonallities from university of Southern California.moscle, cardiopulmonary, neurological, other ctimel, and psychologically, previous wecks exercise, and perceptions of exercise and health.volume and guideline compliance than current shand cryptological, other exercise, and perceptions of exercise and health.volume and guideline compliance than current shand cryptological, other shand reported less PA than US adults in general.Reifsteck et al., 2020Former athletes recruited through the NCAA "former student-athlete research panel"xMost former student-athlete participants in its study reported physical activity levels that meet or exceed minimum guidelines for health promotion.xWeigand et al., 2013Athletes from current and archived public online college athletic rosters at 9 D1 universities.xDepression levels, the findings of this study indicated higher depression 	Plateau et al., 2022	Retired female swimmers/divers.	x	 permission to eat recognizing internal hunger and satiety signals eating to meet physical and nutritional 	X
former student-athlete research panel"this study reported physical activity levels that meet or exceed minimum guidelines for health promotion.Weigand et al., 2013Athletes from current and archived public online college athletic rosters at 9 DI universities.xDepression levels, the findings of this study indicated higher 	Sorenson et al., 2015	and nonathletes from university of Southern	x	muscle, cardiopulmonary, neurological, other clinical, and psychological), previous week's exercise, and perceptions of exercise and	volume and guideline compliance than current SA and reported less PA than US adults in
Image: Contract of the set o	Reifsteck et al., 2020		X	this study reported physical activity levels that meet or exceed minimum guidelines for health	
swimmers and gymnasts from 26 different universities.to sport retirement, body satisfaction, depressive symptomatology, life satisfaction. Retired athlete (RA) who reported having focused on other areas of life while in sport, remained involved in sport-related activities, and developed a new focus after ending their sport careers were more satisfied with their bodies, lower levels of depressive symptomatology.Hardie et al., 2022Post-career NCAA female athletes.xAthlete identity, comparison points when evaluating their bodies, resources thatx	Weigand et al., 2013	online college athletic rosters at 9 DI	x	the findings of this study indicated higher depression levels in current student athletes than in retired graduated	X
evaluating their bodies, resources that	Shander et al., 2021	swimmers and gymnasts from 26 different	x	to sport retirement, body satisfaction, depressive symptomatology, life satisfaction. Retired athlete (RA) who reported having focused on other areas of life while in sport, remained involved in sport-related activities, and developed a new focus after ending their sport careers were more satisfied with their bodies, lower levels of depressive	x
	Hardie et al., 2022	Post-career NCAA female athletes.	x	evaluating their bodies, resources that	x

This review addresses the large gap in knowledge surrounding athletes and their quality of health, exercise, and physical activity post-sport. Most of the literature revolves around qualitative interview and survey-based data collection methods focusing on NCAA Division I athletes, with inconclusive and conflicting results regarding former athletes' overall health and well-being. Quantitative methods should be conducted in this population to empirically determine measures of health and exercise, with more studies needed in general to further understand how these individuals can be aided in their transition out of sports following retirement.



Results

Discussion