Health Behaviors of Athletic Trainers

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Health Behaviors of Athletic Trainers

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University of South Carolina; Indiana State University

Purpose: Health behaviors, such as diet, tobacco, and physical activity, may serve to prevent disease and promote wellness throughout the population including athletic trainers (AT). Good health behaviors act as disease prevention measures to decrease prevalence of pathologies. Hours of sleep, substance use, nutritional intake, and physical activity are behaviors that may impact the health of athletic trainers (AT). The objective of the study was to describe health behaviors of ATs in comparison to the general population and recommended behaviors. Method: We used a cross-sectional, web-based survey of clinically practicing ATs recruited from the National Athletic Trainers’ Association member database. A total of 1,229 ATs completed the web-based survey. The survey contained the Healthy Eating Vital Sign (HEVS) Questionnaire with physical activity items and Center for Disease Control Annual Consensus Survey. We calculated statistics of central tendency (means, frequency, and mode) to describe the characteristics of the athletic training population represented by our sample. The main outcome measures were hours of sleep, frequency of alcohol consumption and number of drinks consumed while drinking, weekly consumption of fast food, daily consumption of vegetables, daily servings of caffeine, smoking behavior in the last month, and exercise in the last day and week. Results: We found that the majority of ATs sleep 5-8 hours per night. From the sample, 66.2% of ATs reported eating fast food at least one time per week, while 95.7% ate vegetables at least one time per day. Only 1.9% of ATs reported smoking a cigarette in the last 30 days as compared to the national average of 15.5%. Finally, 50% of ATs performed physical activity on three or more occurrences per week. ATs most frequently report drinking alcohol weekly with an average of three alcohol beverages per sitting. Conclusion(s): Overall, the health of ATs is similar to the general population except ATs consume fast food more frequently and fewer athletic trainers smoke compared to the general population. Despite ATs base knowledge, many ATs do not engage in at the recommended health behaviors and may place themselves at the increased risk of poorer health and chronic disease. Key Words: nutrition, sleep, substance abuse, physical activity

INTRODUCTION

Health behaviors are actions directed at improving and sustaining good health as it relates to disease prevention. While good habits can act as deterrents to health issues, poor habits can be detrimental to one's health. Sleep, fitness, and nutrition (both diet and hydration) are the triad of human performance and directly influence the most critical health behaviors related to well-being. The health behaviors of other medical professions, such as nurses and physicians, have been previously examined. In regards to substance use, 25% of registered nurses were classified as having an alcohol abuse disorder and 17% reported smoking. Additionally, 34% of physicians reported sleeping less than 6 hours per day and over 35% stated they never exercised. Many healthcare providers exhibit behaviors that may increase their risk for poor health, despite their extensive knowledge of optimal health behaviors.

When exploring the available literature related to health behaviors in athletic trainers (ATs), we can identify that ATs are meeting or exceeding the general population norms but not meeting the recommended health
This was evidenced through alcohol and tobacco use in which ATs consumed less often than the general population but were not meeting the dietary reference intake in this area. Additionally, no ATs were meeting the recommended health behaviors related to nutritional intake of the five food groups. Unfortunately, this has not been revisited in 10 years after it was collected in a small sample of ATs. Therefore, the purpose of this study was to describe the health behaviors, specifically substance use, sleep, nutrition, and physical activity, of ATs with comparisons to the general population and recommended behaviors.

**METHODS**

**Study Design and Participants**

A random sample of ATs (n=10,911) practicing clinically in various settings were recruited from the National Athletic Trainers’ Association (NATA) membership database to complete this cross-sectional, web-based survey. Two-thousand and twenty ATs opened the survey (access rate=2,020/10,911, 18.5%). Many (n=602) responses were excluded from the study due to eligibility (not practicing clinically=591, wished not to participate=11). The sample (n=1,229, age=34±10 years, years credentialed=11±9 years) was representative of the athletic training profession (sex, age, highest degree, job setting) when compared to data published by the NATA in October 2017, completed the tool in its entirety (completion rate=84.8%) and were included in the data analysis. Table 1 provides demographic data of the participants. The Indiana State University Institutional Review Board approved this study.

<table>
<thead>
<tr>
<th>Demographic Variable</th>
<th>Demographic Categories</th>
<th>Frequency (n%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Role</td>
<td>Full-time clinical athletic trainer</td>
<td>900, 73.2%</td>
</tr>
<tr>
<td></td>
<td>Full-time, dual role (teaching and clinical) athletic trainer</td>
<td>220, 17.9%</td>
</tr>
<tr>
<td></td>
<td>Part-time and outreach athletic trainer</td>
<td>51, 4.1%</td>
</tr>
<tr>
<td></td>
<td>Graduate assistant athletic trainer</td>
<td>43, 2.5%</td>
</tr>
<tr>
<td></td>
<td>Intern</td>
<td>13, 1.1%</td>
</tr>
<tr>
<td></td>
<td>Resident or fellow</td>
<td>2, 0.2%</td>
</tr>
<tr>
<td>Gender</td>
<td>Male</td>
<td>497, 40.4%</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>729, 59.3%</td>
</tr>
<tr>
<td></td>
<td>Transgender</td>
<td>1, 0.1%</td>
</tr>
<tr>
<td></td>
<td>Prefer not to respond</td>
<td>2, 0.2%</td>
</tr>
<tr>
<td>Ethnicity</td>
<td>African American</td>
<td>32, 2.6%</td>
</tr>
<tr>
<td></td>
<td>Caucasian</td>
<td>1089, 88.6%</td>
</tr>
<tr>
<td></td>
<td>Hispanic/Latino</td>
<td>50, 4.1%</td>
</tr>
<tr>
<td></td>
<td>Native American/Alaskan</td>
<td>3, 0.2%</td>
</tr>
<tr>
<td></td>
<td>Pacific Islander</td>
<td>14, 1.1%</td>
</tr>
<tr>
<td></td>
<td>East Asian</td>
<td>16, 1.3%</td>
</tr>
<tr>
<td></td>
<td>South Asian</td>
<td>6, 0.5%</td>
</tr>
<tr>
<td></td>
<td>2 or more ethnicities</td>
<td>6, 0.5%</td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td>13, 1.1%</td>
</tr>
<tr>
<td>Highest Degree Earned</td>
<td>Bachelor’s (BA, BS, etc.)</td>
<td>317, 25.8%</td>
</tr>
<tr>
<td></td>
<td>Master’s (MA, MS, etc.)</td>
<td>893, 72.7%</td>
</tr>
<tr>
<td></td>
<td>Doctorate (PhD, EdD, DAT, DPT, DHS, etc.)</td>
<td>19, 1.5%</td>
</tr>
<tr>
<td>Job Setting</td>
<td>College/University</td>
<td>499, 40.6%</td>
</tr>
<tr>
<td></td>
<td>Health Care Administration/Rehabilitation</td>
<td>37, 3.0%</td>
</tr>
<tr>
<td></td>
<td>Professional Sports</td>
<td>39, 3.2%</td>
</tr>
<tr>
<td></td>
<td>Secondary School</td>
<td>475, 38.6%</td>
</tr>
<tr>
<td></td>
<td>Emerging Setting</td>
<td>58, 4.7%</td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td>121, 9.8%</td>
</tr>
</tbody>
</table>

Table 1 – Demographic Data
Instrumentation
The instrument for this study included 24 questions; 5 questions related to demographics and 19 related to health behaviors. The health behaviors included the Healthy Eating Vital Sign (HEVS) tool, as well as selected items from the Center for Disease Control National Health Interview Survey (CDC-NHIS) health behaviors section.8,9

The CDC-NHIS tool was created to encompass a range of behaviors and the current health status across the United States of America as a means of tracking the overall health of the country.8,10 The CDC-NHIS tool does not undergo validation testing, however the questions selected from the tool for the survey are all considered “core questions,” which remain on the instrument for a minimum of ten years to collect public health behavior information for the government.10,11 Five questions were selected pertaining to adult health behaviors in the areas of sleep and substance use.

The HEVS questionnaire consisted of 14 items.9 The first 13 items asked participants to report their frequency to engage in the target behavior (nutritional considerations and physical activity) in the respective recall period with one additional item related to meal completion.9 The HEVS has been validated against the Block Food Frequency Questionnaire by individual item, with the majority of items having moderate criterion validity.9

Procedures
A web-based survey platform (Qualtrics, Inc., Provo, UT) distributed the tool via an initial e-mail sent September 5, 2017 with three reminder e-mails sent weekly and the survey closing October 6, 2017. Following the electronic informed consent, the participants entered the survey to provide demographic variables and reflect on their health behaviors via the CDC-NHIS and HEVS.

Statistical Analysis
The investigators transferred the data to a custom spreadsheet application. The statistical analysis excluded incomplete responses. A frequency count was calculated for each nominal and ordinal variable upon the interval (e.g. Likert scale, categorical options) at which the data were collected. The investigators analyzed the data using SPSS (SPSS, Version 24.0. Armonk, NY: IBM Corp).

RESULTS
For the majority of health behaviors, ATs generally reported similar health behaviors as the general population. The exceptions to this are a higher amount of alcohol beverages per sitting and a lower frequency of cigarette smoking for the AT population compared to the general population. Tables 2 and 3 provide complete data from the sample on the CDC-NHIS and the HEVS tool, respectively.

DISCUSSION
Although it was found that ATs did not meet all the recommended health behaviors, the findings were consistent with that of other healthcare providers.12,13 The health behaviors examined in this study are within the scope of athletic training practice through the injury and illness prevention and wellness domain. As such, the behaviors are ones that ATs have the knowledge and skills of at a higher level than the general population.12 While ATs met the recommendations for tobacco use, they exceeded the recommended behaviors related to weekly alcohol and fast-food intake.

The CDC-NHIS Data on Alcohol, Smoking, Caffeine, Sleep
When exploring the frequency of drinking alcohol in the past year, more ATs were drinking weekly or monthly as compared to the general population. The general population reported higher percentages either never/no drinking or yearly drinking.14 Additionally, the ATs that were consuming alcohol above the recommended “moderate drinking” amount set by the dietary reference
The quantity of alcoholic beverages that the majority of ATs report consuming on a weekly basis may predispose them to short- and long-term risks to their social, physical (high blood pressure and injury), and emotional (alcoholism, depression, anxiety) wellness. These findings are comparable to the trend in the general population and ATs, in which male ATs were consuming more alcoholic beverages per sitting (mean=3 drinks) compared to their female AT counterparts (mean=2 drinks). Excessive drinking is indicative of problematic behavior that has not changed over the ten years since the previous study was completed examining these health behaviors.

The national goal for cigarette smoking is complete cessation. ATs are closer to meeting this goal as compared to the general population with 8 times more people in the general population smoking cigarettes as compared to ATs. While cigarette smoking cessation has continued to improve in the United States, there is a need to explore the self-reported frequency of alternative delivery products, such as smokeless tobacco and electronic cigarettes, emerging in the market. The Affordable Care Act states that health insurance providers should cover at least two attempts of tobacco cessation per year to be compliant with the preventive services provisions.

The profession of athletic training must be aware of the resources provided to us from our employers and third-party insurers to utilize the health care benefits afforded to each of us from employment. As ATs have reported long work hours and typically practice in an educational or clinical setting, one possibility for the discrepancy in smoking frequency could be the restriction on the ability to smoke on-site at their job, which has been cited as a deterrent in previous studies.

Caffeine intake can come in several forms such as coffee, soda, and tea. While the recommendation is one portion (6 ounces) of caffeine in a 24-hour period, consumption of a

<table>
<thead>
<tr>
<th>Health Behavior Question</th>
<th>Ideal Behavior</th>
<th>General Population</th>
<th>AT frequency (n%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>On average, how many hours of sleep do you get in a 24 hour period?</td>
<td>7 or more hours</td>
<td>≤ 6 hours = 29.7%</td>
<td>≤ 4 hours = 29.24%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7-8 hours = 61.6%</td>
<td>5-8 hours = 1117, 90.9%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>≥ 9 hours = 8.7%</td>
<td>&gt; 8 hours = 83, 6.8%</td>
</tr>
<tr>
<td>On how many of the past 30 days did you smoke a cigarette?</td>
<td>100% of the population reports 0 days smoking</td>
<td>15.5% of the population reports smoking</td>
<td>0 days = 1206, 98.1%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1-7 days = 16, 1.3%</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>8-15 days = 1, 0.1%</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>&gt; 15 days = 6, 0.5%</td>
</tr>
<tr>
<td>In the past year, how often did you drink any type of alcoholic beverage?</td>
<td>N/A</td>
<td>Never = 3987, 18.3%</td>
<td>Never = 104, 8.5%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Daily = N/A</td>
<td>Daily = 76, 6.2%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Weekly = 8228, 37.7%</td>
<td>Weekly = 599, 48.7%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Monthly = 4349, 19.9%</td>
<td>Monthly = 355, 28.9%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yearly = 5082, 23.3%</td>
<td>Yearly = 95, 7.7%</td>
</tr>
<tr>
<td>On those days that you drank alcoholic beverages, on the average, how many drinks did you have? (n=1051)</td>
<td>1 drink (females)*</td>
<td>1-3 portions</td>
<td>Never = 3987, 18.3%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 drinks (males)*</td>
<td>Daily = N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Weekly = 8228, 37.7%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Monthly = 4349, 19.9%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Yearly = 5082, 23.3%</td>
</tr>
<tr>
<td>How many portions of caffeine do you consume in one 24-hour period? (One portion is defined as 6oz. of a caffeinated beverage such as coffee, tea, soda pop, and caffeine supplements)</td>
<td>1 portion</td>
<td>1-3 portions</td>
<td>Never = 3987, 18.3%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Daily = N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Weekly = 8228, 37.7%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Monthly = 4349, 19.9%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Yearly = 5082, 23.3%</td>
</tr>
</tbody>
</table>

* = for moderate level consumption
<table>
<thead>
<tr>
<th>Health Behavior question</th>
<th>AT Frequency (n%)</th>
</tr>
</thead>
</table>
| How many times did you eat restaurant or fast food **yesterday** (for example, Chili’s, McDonalds, Burger King, etc.)? | 0 times = 772, 62.8%  
< 3 times = 401, 32.6%  
≥ 3 times = 56, 4.6% |
| How many times do you typically eat restaurant or fast food in **one week** (for example, Chili’s, McDonalds, Burger King, etc.)? | 0 times = 416, 33.8%  
< 3 times = 646, 52.6%  
≥ 3 times = 167, 13.6% |
| How many times did you drink juice **yesterday** (for example, orange juice, apple juice, Sunny Delight)? | 0 times = 942, 76.6%  
< 3 times = 261, 21.2%  
≥ 3 times = 26, 2.1% |
| How many times do you **typically** drink juice in one day (for example, orange juice, apple juice, Sunny Delight)? | 0 times = 903, 73.5%  
< 3 times = 318, 25.9%  
≥ 3 times = 8, 0.7% |
| How many cans of non-diet soda pop did you drink **yesterday** (for example, Coke, Pepsi, Sprite)? | 0 cans = 917, 74.6%  
< 3 cans = 274, 22.3%  
≥ 3 cans = 38, 3.1% |
| How many times do you **typically** drink in one day (for example, orange juice, apple juice, Sunny Delight)? | 0 times = 148, 12.0%  
< 3 times = 789, 64.2%  
≥ 3 times = 292, 23.8% |
| How many times do you **typically** eat vegetables **yesterday** (for example, broccoli, spinach, greens, salad, etc.)? | 0 times = 269, 21.9%  
< 3 times = 773, 62.9%  
≥ 3 times = 187, 15.2% |
| How many times did you eat fruit **yesterday** (for example, an apple, an orange, a hand full of grapes, etc.)? | 0 times = 270, 22.0%  
< 3 times = 198, 16.1%  
≥ 3 times = 351, 28.6% |
| How many times do you **typically** eat vegetables in one day (for example, broccoli, spinach, greens, salad, etc.)? | 0 times = 107, 8.7%  
< 3 times = 387, 31.5%  
≥ 3 times = 230, 18.7% |
| How many times do you **typically** eat fruit in one day (for example, an apple, an orange, a hand full of grapes, etc.)? | 0 times = 53, 4.3%  
< 3 times = 869, 70.7%  
≥ 3 times = 307, 25.0% |
| How many times do you **typically** eat breakfast in 1 week (7 days)? | 0 times = 81, 6.6%  
< 3 times = 217, 17.7%  
≥ 3 times = 931, 75.8% |
| How many days during the **past week** have you performed physical activity where your heart beats faster and you are breathing harder than normal for 30 minutes or more (in three 10-minute bouts or one 30-minute bout)? | 0 times = 228, 18.6%  
< 3 times = 455, 37.0%  
≥ 3 times = 546, 44.4% |
| How many days in a **typical week** have you performed activity such as this (see previous question)? | 0 times = 162, 13.2%  
< 3 times = 453, 36.9%  
≥ 3 times = 614, 50.0% |
| When eating restaurant food, do you eat all of the food served to you at one time? | Never = 17, 1.4%  
Rarely = 143, 11.6%  
Occasionally = 168, 13.7%  
Sometimes = 270, 22.0%  
Often = 198, 16.1%  
Usually = 351, 28.6%  
Always = 82, 6.7% |

Table 3 – Reported Behaviors of the HEVS for Athletic Trainers

Winkelmann et al.: Health Behaviors of Athletic Trainers

Typical 12 to 16 ounce beverage automatically doubles the caffeine portion. Although each beverage has a different caffeine count, the safety of caffeine only becomes worrisome after 400 mg, or the equivalent of consuming two tall black coffees.23,24 One fifth (21%) of the ATs in this study reported consuming 18 ounces or more of caffeine per day which is concerning to their overall health as excessive caffeine consumption leads to chronic illness such as sleep problems.25 Sleep problems in healthcare have led to medical errors in the
workplace.26 The nature of the job may contribute to this excessive intake. Athletic trainers often have work hours that fluctuate, or work several per diem jobs to subsidize their income.

As such, the irregularity of work hours may contribute to this negative health behavior. It is important to consider the timing of this study (mid-season in the fall), which is one of the busiest times for ATs in traditional interscholastic sport settings, that may have influenced caffeine intake.

Adequate sleep has been known to increase workplace productivity,26,27 whereas inadequate sleep (less than 7 hours in a 24-hour period) increases the risk of health comorbidities including high blood pressure and obesity.28,29 Additionally, poor sleeping behaviors can impair reaction time and cause irritability.30,31 Based on previous research in other healthcare professions, it was hypothesized that ATs do not meet the recommendation for sleep;5 however, ATs self-reported to sleep similar amounts as the general population. It is important to note that 91% of the participants noted sleeping 5-8 hours, yet the categorical options from the survey (≤ 4 hours, 5-8 hours, > 8 hours) has made it difficult for us to further discern what percentage of the sample slept 5-7 hours versus 7-8 hours to best understand how many ATs were failing to meet the recommended behavior of more than 7 hours of sleep set by the American Academy of Sleep Medicine.32 Regardless, ATs need to explore ways to gain additional hours of sleep if they fall below the recommended seven hours of sleep per night. Some potential solutions for ATs to better sleep quality align well with current habits that are being promoted in the profession including adoption of the medical model of healthcare delivery that includes creating an appointment-based scheduling system for daily patient care, ensuring that sporting event schedule changes are communicated at least 24 hours in advance, and promoting a “do not disturb” time.33

**The HEVS Data on Food and Drink Intake**

Over one third of the ATs in this study reported restaurant and fast food intake the day prior to the study, with 66% of ATs reporting one or more times of weekly restaurant and fast food consumption. Previous research has identified those individuals who consume fast food more than twice a week gained 8-17 pounds of bodyweight as compared to those with infrequent fast food intake.34 While excessive bodyweight does not directly correlate to obesity, previous research stated that overweight workers face hiring discrimination.35,36 As we seek to describe and improve the health behaviors in the professions, ATs should consider the long-term consequences of their professional livelihood reflective of a short-term decision related to restaurant/fast food consumption. It is important to consider the source of fast food for the practicing clinician. Due to the busy schedule in traditional athletic training settings, the nature of the job sometimes requires meals on the go potentially provided by their employer or selected due to time. One avenue to curb the high fast food intake behavior is to speak with stakeholders and employers that provide meals to ATs to consider healthier options outside of the traditional concession stand or “meal on the go” choice.

Although we identified frequent fast food intake, we did identify that ATs do make healthy selection when they are able to make their choice. The current daily recommended intake is 2 to 3 cups of vegetable (e.g. two cups of spinach) and 1.5 to 2 cups of fruit (e.g. two apples) per day.15 Vegetable and fruit intake was reported at least one time per day in over 90% of the ATs in this study. We hypothesize that vegetable and fruit intake is likely occurring as snacks options during the workday to meet the dietary intake. Previous research has proposed that a healthy lifestyle may be a factor that influences work-life imbalance, specifically in athletic training.37-40
ATs should consider tracking their nutritional intake per day to improve both physical and mental performance necessary for the job as a way to mediate unhealthy behaviors. One method of tracking or preparing is meal preparation. Meal preparation is the process of planning and pre-cooking meals. Due to the busy schedule, ATs may consider this method of nutritional intake to sustain their caloric needs while being mindful of healthier selections in the workday.

**Physical Activity**

Previous research in the exercise habits of ATs is variable. Most recently, ATs and athletic training students both cited a lack of time as a contributing factor to a lack of physical activity. In this study, 50% of ATs in a typical workweek were meeting the physical activity recommendation of 30 minutes of vigorous exercise at least three times per week. Similar to previous literature, ATs possess the knowledge related to physical activity, yet the modeling of positive health behavior is not occurring across the profession. The previously referenced data on athletic training students is particularly interesting as compared to the current research findings as a negative role modeling behavior may be occurring during clinical education. For example, if an athletic trainer that serves as a preceptor is exhibiting and partaking in negative health behaviors, the athletic training student may replicate these behaviors as part of their anticipatory socialization into the field. Interestingly, while the health benefits of physical activity related to blood pressure and mental health are well established in the literature, an individual’s psychological stress may deter physical activity in the same manner as that stress negatively influences substance use. As the profession of athletic training has cited high levels of job-related stress, positive healthy lifestyle behaviors may serve as a way to address burnout in ATs. Not only do ATs need to be able to respond to an emergent situation, but we are also role models for an already physically active population. Time management and perceived physical demands of work may also be factors related to the frequency of physical activity in ATs.

**LIMITATIONS AND FUTURE RESEARCH**

This study suffered threats to external validity. The study was retrospective and self-reported in nature, which may have affected the recall over different periods. In addition, the participants may have felt a pressure to normalize their answers rather than honestly reporting to adhere to norms. Due to the lack of control of their time, travel, and inconsistency of work hours, all factors may contribute to AT’s inconsistent health behaviors. The potential lack of time may also contribute to a lack of sleep, increased fast food intake, and lack of physical activity that may manifest into other health issues later in life. Future research and revisions to this study should focus on controlling the threats to external validity; doing so will help validate the cause and prioritization of health behaviors, as well as implementation of strategies for improving health behaviors in ATs such as the role of sleep in athletic training clinical performance.

**CONCLUSION**

The results shed light on the opportunities to improve the health behaviors of ATs. While ATs possess the base knowledge regarding a healthy lifestyle, they should be mindful of how their personal health behaviors may be influencing their professional satisfaction. This sample of ATs reported better health behaviors related to food and vegetable intake and smoking than the general population, yet failed to meet the recommended behaviors established by national health organizations. The behaviors that failed to meet the recommended behavior standard and were less than the general population included in fast food/restaurant intake and frequency of alcohol consumption. Similar to previous findings in healthcare professions, not all ATs report practicing the principles of healthy living despite knowing the benefits as it relates to injury and illness prevention and
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8


