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# COLLEGIATE STUDENT ATHLETE PERCEPTION OF SATISFACTION AND COMFORT WITH ATHLETIC TRAINING STUDENTS

A thesis

Presented to

The College of Graduate and Professional Studies

Department of Applied Medicine and Rehabilitation

Indiana State University

Terre Haute, Indiana

\_\_\_\_\_

In Partial Fulfillment

of the Requirements for the Degree

Master of Science in Athletic Training

\_\_\_\_\_

by

Keith Tebbe

August 2012

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Keywords: athlete, satisfaction, comfort, athletic training student

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#### **ABSTRACT**

TITLE: Collegiate student athlete perceptions of satisfaction and comfort with athletic training students

CONTEXT: Athletic training students (ATS) and student athletes have a large amount of interaction with one another. Many other medical professions study the interaction that their students have with a patient population.

OBJECTIVE: Investigate student athlete's perception, satisfaction, and comfort with ATSs.

DESIGN: Online survey.

SETTING: Student athletes at CAATE- accredited institutions.

PARTICIPANTS: 66 student athletes (20 male, 46 female) from 22 universities

DATA COLLECTION: The survey consisted of 3 yes/no questions, 5 demographic questions, 1 multiple-answer question asking the participant to select characteristics that describe an ATS, 21 Likert scale questions based off previous perception and comfort studies, and 5 open ended questions.

ANALYSIS: Analyzed for statistics of central tendency

RESULTS: Student primarily perceive ATSs for taping ankles (n=62, 93.9%), distributing water/sports drinks (n=62, 93.9%), and rehabilitating injuries (n=60, 90.9%). Athletes did not perceive ATSs as licensed health care professionals and minimally perceived ATS as participating in emergency care. Athletes were most satisfied with of respect ATSs

demonstrated (4.3 $\pm$ 0.8). Student athletes were least satisfied with ATSs' communication with coaches (3.7 $\pm$ 1.2) Student athletes were most comfortable with the ATS asking the ATC when unsure of an injury (4.7 $\pm$ 0.5). Student athletes were least comfortable with discussing personal issues with an ATS (3.6 $\pm$ 1.0).

CONCLUSIONS: We found that in general, student athletes were satisfied and comfortable with the ATSs at their institution. ATSs, like other medical profession students, are receiving satisfactory marks from their patient population.

KEYWORDS: athlete, athletic training student, satisfaction, comfort

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#### CHAPTER 1

#### INTRODUCTION

Paragraph Number 1 Patient satisfaction is closely related to health outcomes. <sup>1-4</sup> Patients who experience advanced illness tend to be less satisfied with the healthcare services provided. <sup>1-4</sup> Consequently, poor patient satisfaction creates poor patient outcomes. Patient satisfaction is an essential component in patient care and positive outcome. Medical entities that participate in student education must also assess patient satisfaction with students and student supervision to understand the impact on patient outcomes. <sup>5-14</sup>

Paragraph Number 2 Medical professions use supervised clinical experiences to socialize students into the profession. 15,16 Through this supervised socialization, students are able to use the skills they learn in the classroom and practice under supervision in the real world setting. Athletic training education, much like most allied health care fields, require students to engage in clinical education formerly identified as an internship. 15-32 Athletic Training education also requires athletic training students (ATS) to engage with patients in a clinical/internship model under supervision. Supervised interactions between student and patient helps the ATS develop professional skills needed to practice in the professional setting as a licensed practitioner. ATSs clinical experiences include interaction with a diverse patient population, but most often with collegiate athletes. An emphasis in athletic trainer clinical education is placed

on athlete/patient interaction, yet research is lacking that investigates this relationship and the perceived satisfaction of care.<sup>33</sup>

Paragraph Number 3 Currently one published study has been conducted to assess collegiate athlete satisfaction with ATSs and focused on the overall athletic training services provided by that single institution.<sup>33</sup> A majority of the literature on athlete satisfaction has investigated student athlete satisfaction with health care services provided by certified athletic trainers (AT).<sup>33-35</sup> Since ATSs are future professionals, studying the level of student athlete satisfaction with the ATSs can help identify that education programs are meeting their intended outcomes, to educate and socialize students into the profession through clinical education and effectively care for patients. Evidence that ATSs are providing efficacious results to their patient population is essential to ensure that the public is receiving appropriate treatment and that future professionals receive proper supervision. Studying the athletes' perception and satisfaction with the supervised health care services provided by ATSs can improve our understanding of how pre-professionals are perceived and therefore mentors can better aid future practitioners in navigating patient/practitioner interaction. The purpose of this study is to assess student athlete satisfaction of supervised ATSs interactions and care in the collegiate setting.

#### **Research Question**

**Paragraph Number 4** What is collegiate student athletes' perception of satisfaction and comfort with the supervised health care services provided by the ATSs at their institution?

#### **Expected Outcomes**

**Paragraph Number5** The purpose of the proposed project is to assess student athlete's perception of satisfaction and comfort with the supervised ATSs at that institution. We expect to

see similar results as studies that have investigate patient/medical student interaction. We aim to gain a better understanding of what student athletes perceive ATS roles to be.

#### **CHAPTER 2**

#### REVIEW OF LITERATURE

Paragraph Number 1 An essential component of athletic training education programs (ATEP) is interaction between the student athletes and the athletic training students (ATS) for clinical education. Other medical fields have studied the interaction between student and patient, and patients have been satisfied with the care given by medical students. <sup>5-14</sup> The impact of these interactions has not been completely understood in athletic training education. Current studies have focused on the perception and satisfaction that student athletes have with certified athletic trainers (AT) while there has been little focus on student athlete perceptions and satisfaction with ATSs. <sup>33-35</sup> Perception and satisfaction surveys provide valuable information that may be used to adapt the preparation of athletic training professionals as well as enhance patient outcomes. The following literature review will discuss satisfaction studies done in other student/patient medical fields, the evolution of athletic training education, athletic training students, and previous satisfaction studies in athletic training.

#### **Search Strategy**

Paragraph Number 2 Databases including EBSCOhost, CINAHL, MEDLINE, SPORTSDiscus, and PUBMEDcentral were used in the search of this literature. Other sources were obtained through references and related websites. The following words were used singularly or in combination with one another: Perception, Student Athlete, Athletic Training

Student, Athletic Trainer, Satisfaction, Learning Styles, ATEP, Education, History, Internship, Apprenticeship, Skills, Certified, NATA, Domains, Clinical, Collegiate, Undergraduate, Peer, Board of Certification, Professional, Socialization, Program, Athletic Training, CAATE, CAAHEP, Services, Unruh, Nursing, Medical, Students, Patients, Intern, Likert, Illness, Clinician, Teaching, Hospital, Therapy, Physical, Occupational, Supervision, Feedback, Survey, Doctor, Nurse.

**Paragraph Number 3** Inclusion criteria for the study were based on education, athletic training, medical education, satisfaction, medical care, and student patient interaction. Three hundred articles were found and forty-nine articles were selected for the review of literature.

#### **Studies in Other Student/Patient Medical Fields**

Paragraph Number 4 Other medical professions with patient/student interactions have evaluated perceived satisfaction of health care services received by a medical student/intern. Some patients reported that they were better informed of their problem when the medical student was present during the exam.<sup>6</sup> Patients interviewed after a first year medical student conducted the history portion of an examination, suggest that overall, patients had positive experiences with the medical students and feel like they are helping the future of the profession.<sup>5</sup> Overwhelming satisfaction, 90.3% of patients, report having positive interactions during their treatment and were satisfied with the care they received.<sup>7</sup>

**Paragraph Number 5** One factor that may affect the satisfaction with medical residents can be their year in the residency. First year residents were depicted to have lower satisfaction scores than second year and third/forth year residents. Second, third and fourth year residents were also more comparable to the more experienced doctors on staff. ATSs, like residents, will

go through an adjustment period during their first year in the ATEP. This adjustment time may also result in lower scores for a first year ATS compared to a second or third year ATS.

*Paragraph Number 6* Students in other medical fields are interacting with patients during care and have received high satisfaction rates.<sup>5-14</sup> Much like medical students, ATSs are also interacting with patients in their own medical setting. Current literature, as discussed later, suggests that collegiate student athletes are also satisfied with care from ATSs, but more research is needed to help support that claim.<sup>33</sup>

## **Evolution of Athletic Training Education**

Paragraph Number 7Athletic training education has evolved from an apprenticeship-based education to a curriculum-based educational program. In 1956, the National Athletic Trainers' Association (NATA) constructed a committee to develop the professional direction of athletic training including an educational model. By 1959, the committee had developed a curriculum model for athletic training. The framers of this curriculum model believed it was important to improve the employment options for ATs and therefore included coursework for becoming secondary school teachers. The initial athletic training education model included coursework taught in physical education majors as well as course work that would be a prerequisite for acceptance into physical therapy school. The only significant difference was the addition of a practice lab and two athletic training courses, techniques of athletic training and advanced techniques of athletic training.

*Paragraph Number 8* Until the late 1960's, the apprenticeship model was the educational avenue to becoming an athletic trainer. <sup>36</sup> In 1969, the Subcommittee on Professional Education instigated an approval process for athletic training education programs (ATEP) housed in universities as an additional option for taking the national certification exam. Additional options

for national certification examination eligibility were to graduate from an NATA approved athletic training education program, engage in an apprenticeship, graduate from an accredited physical therapy program, or act previously as an athletic trainer for a minimum of 5 years.<sup>36</sup>

Throughout the years, athletic training education has remained embedded in clinical education.

Paragraph Number 9 Based on employment opportunities for ATs, athletic training educators in the 1970's recognized that focusing on a teaching degree in physical education or health was limiting athletic trainers and therefore suggested that ATSs pursue a teaching degree in any subject of their choice. Athletic training education combined with a teaching certification did not change the original curriculum with the exception of an increase in of the required supervised clinical hours. In 1980, the requirement for a secondary teaching degree was removed. Modifications to the athletic training education curriculums shifted in July 1990 to the requirement that, institutions with NATA approved ATEPs must have a major field in athletic training. The internship option however was still a valid method for qualifying to sit for the national certifying examination.

Paragraph Number 10 Educational changes, such as the subject matter requirements, athletic training competencies, the 1983 *Guidelines*, and the incorporation of athletic training as a major, in the 1980's initiated the American Medical Association (AMA) as an allied health profession in 1990 to approve athletic training as a health care profession. Approval of the Committee on Allied Health Education and Accreditation (CAHEA) was standard for allied health care fields at that time and therefore athletic training education sought to obtain approval. <sup>17-31</sup> CAHEA was later replaced by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) in 1994, again following trends in health care to self-accredit.

<sup>17-31</sup> By 2004, the only route to apply for the Board of Certification (BOC) exam was to graduate

from a CAAHEP accredited institution. With the other routes to certification eliminated, an educational accredited based standard of athletic training education was therefore consistent with other allied health professions.<sup>36</sup> The BOC is the only accredited certifying body of ATs. In 2006, the Commission of Accreditation of Athletic Training Education (CAATE) became the formal accreditation committee for ATEPs.

Paragraph Number 11 Like other medical fields using this gold standard of education, athletic training education uses supervised clinical experience in the overall education of the ATS. 15-32,37 Clinical supervision establishes good learning environments, increased autonomy, and stimulates the need to learn independently. 37 This method of clinical education allows for the student to practice the skills learned in the classroom and put those skills to use in a live setting, but supervision of the student allows for the clinical instructor to intervene if the student is having trouble or the patient/athlete is in danger. Keeping up with current educational fundamentals has allowed athletic training education to remain competitive with other medical fields.

#### **Athletic Training Students**

**Paragraph Number 12** Athletic training students are students who are seeking entry-level education into athletic training. The ATSs typically must be enrolled in a CAATE accredited entry-level undergraduate ATEP.

Paragraph Number 13 Students enrolled in an ATEP are required to complete clinical education course work over a minimum of 2 years. During a ATSs clinical experience, the ATS will participate in different clinical settings under the direct supervision of an approved clinical instructor (ACI). These settings can include high school sports, collegiate/university sports, outpatient clinic, hospital, physician's office, sports camps, minor and major league sports,

occupational health, general medicine, industrial setting, and military setting. The intention of the clinical experience is to gain hands-on experience working with patients and conducting appropriate level skills under the supervision of an AT or ACI. ATSs are not the primary caregiver to a student athlete but provide services under the direct supervision and guidance of an AT.

**Paragraph Number 14** Educational requirements are provided and monitored by CAATE. To maintain an accredited ATEP, the curriculum must provide courses in the five domains of care; (1) injury/illness prevention and wellness protection, (2) clinical evaluation and diagnosis, (3) immediate and emergency care, (4) treatment and rehabilitation, (5) organizational and professional health and wellbeing.<sup>38</sup> The ATS in an undergraduate ATEP will complete coursework in the subject areas of Basic and Applied Sciences as well as Professional Content.<sup>39</sup> Coursework under Basic and Applied Sciences include human anatomy, human physiology, chemistry, biology, physics, statistics and research design, statistics, rehabilitation, exercise physiology, and kinesiology/biomechanics. Coursework under Professional Content includes risk management and injury prevention, pathology of injuries and illness, orthopedic clinical examination and diagnosis, medical conditions and disabilities, acute care of injuries and illnesses, therapeutic modalities, conditioning, rehabilitative exercise and pharmacology, psychosocial intervention and referral, nutritional aspects of injuries and illnesses, and health care administration.<sup>39</sup> The education that students gain from this coursework is placed into action when the ATS participates in the clinical educational component of the ATEP. The use or misuse of this education could directly have an effect on the satisfaction of student athlete/patient in the ATSs clinical experience.

Paragraph Number 15 Athletic training curriculum combines didactic coursework with clinical education. The clinical education component allows the ATS use the didactic information from the classroom and practically apply the information on patients and athletes. The clinical portion of the education mandates that the ATS is supervised by an AT but allows for increased autonomy as students' progress through the curriculum. ATS interaction in the clinical component is similar to other health care professions. Other health care professions have evaluated patient satisfaction from clinical education and practitioner interaction. Currently, most research on athlete satisfaction is focused on the athletes' satisfaction with ATs and therefore an assessment of ATS patient satisfaction due to a link to patient compliance and efficacy of outcomes is necessary.

#### **Previous Satisfaction Studies in Athletic Training**

Paragraph Number 16 Student athlete's satisfaction or perception of the health care services provided by ATs has been assessed. Current literature on patient satisfaction with ATs include satisfaction with the athletic training services at an institution, satisfaction with the social support services provided by athletic trainers, and comparing ATs with ATSs. The current literature on patient satisfaction in athletic training is discussed in the following section.

Paragraph Number 17 Female and male athletes in low profile sports report lower perception and satisfaction with the athletic training services provided as compared to male athletes in high prolife sports.<sup>35</sup> Women in high profile sports reported the highest satisfaction scores and men in low profile sports reported the lowest scores.<sup>34</sup> Reasons for a high-perceived satisfaction with the athletic training services range from a high incidence of acute injuries in high profile sports to the number of staff with the high profile sports.<sup>34</sup> Currently, there is little known about the student-athlete experiences with ATSs.

Paragraph Number 18 While there is little information on student athlete perception of ATSs, one study has been completed that compared ATs with ATSs at one NCAA Division III school. The findings suggest that the student athletes were more satisfied with the AT than the ATS in all six domains of athletic training except one, rehabilitation. The reason for a higher perception was thought to be a result of the ATS working at a more personal level with the athlete, and thus receiving a higher satisfaction level. The athlete may have had more interaction with the ATSs than the ATs, which could have also affected the results. If student athletes are interacting with ATSs more than ATs, it is important that more research be done in this area to get a better understanding of this interaction.

Paragraph Number 19 Injured athletes have depicted a higher perception of satisfaction with the social support received from their athletic trainers than that from the coaching staff. <sup>41</sup> Social support of the athlete can have varying effects on the recovery and overall satisfaction of the healthcare services provided by ATSs. Using modified questions from the Social Support Survey developed by Rosenfeld, Richman, and Hardy, athletes at one institution were asked about the social support they received, the amount of social support expected from the ATs and ATSs, and finally compared the athlete satisfaction between ATs and ATSs. <sup>40</sup> ATSs received lower scores than the ATs, although not statistically significant. <sup>40</sup> The results indicate that athletes are viewing ATSs at the same level as the ATs when it comes to the social support expected and received.

*Paragraph Number 20* Student athlete perceptions can also play a role in the overall educational experience of the ATS. Establishing trust between athletes and ATSs is important for the professional socialization of the students. <sup>42</sup> If a student athlete does not trust the ATS, that athlete may pass over the ATS and go straight to the AT or another ATS. Athlete avoidance of

an ATS can hurt the psyche of an ATS and make them feel as though they are insufficient to provide care. Rewarding affirmation can also be experienced if the athlete says "thank you" to the ATS. 42

Paragraph Number 21 Athlete/AT interactions and its influence on rehabilitation have also been investigated. Athletes who received higher amounts of social support from the AT resulted in higher adherence to the rehabilitation program. In addition, greater rapport with the AT lead to an increase in the overall adherence of the rehabilitation program. Perpetuating athlete engagement in the rehabilitation of an injury is crucial to the overall success of the rehabilitation. If the athlete is more accepting of the rehabilitation and believes that the rehabilitation is working, then the athlete may progress more quickly and return to play sooner. ATSs, while supervised by an AT, help with rehabilitation of injured athletes in the athletic training room. Since ATSs are having this type of interaction with athletes, studying how athletes perceive ATSs can help add to current literature.

#### Conclusion

Paragraph Number 22 Throughout the medical field, professions investigate the satisfaction that patients have with the health care services provided. 5-10,33-35,40,41 Patients who are severely ill or injured have a lower satisfaction with the health care services provided. 1-4 Medical professions have also looked at patient satisfaction with the students in the field. 5-10,33,40 Medical students interacting with patients during care are receiving high satisfaction rates. 5-10 Like other medical fields, athletic training has also studied the satisfaction with health care services provided but those studies have focused on the AT and not the ATS. 33-35 Men and women in low profile sports reported the lowest satisfaction, where as women in high profile

sports reported the highest satisfaction with the health care services provided by an AT.<sup>33-35</sup> When comparing ATs to ATSs, student athletes were more satisfied with ATs.<sup>33</sup>

*Paragraph Number 23* Athletic training education, similar to education in other medical fields, relies on a curriculum that combines didactic coursework with supervised clinical education. During these supervised clinical experiences, ATSs get the chance to apply the knowledge and skills they learned in the classroom in a real world setting. During this timeframe, the ATS is interacting with athletes/patients. This interaction, while known in other fields, is not well known in athletic training education. <sup>5-14,33</sup> There is a need for research in the area of athlete satisfaction with ATSs, in order to fill the gap in the current literature. The purpose of this study is to assess student athlete satisfaction and perception of supervised ATSs interactions and care in the collegiate setting.

#### **CHAPTER 3**

#### METHODS

Paragraph Number 1 Current literature on collegiate athlete satisfaction is mainly focused on the satisfaction athletes have with the certified athletic trainer at their institution.<sup>33-35,40</sup> With the exception of one study, little research has investigated the satisfaction and perception college athletes have of the ATS's who are providing supervised healthcare services.<sup>33</sup> The purpose of this study is to assess patient satisfaction of supervised athletic training student's interactions and care in the collegiate setting. This chapter is presented in five sections: research design, participants, measures and instruments, procedure, and analysis

### **Research Design**

**Paragraph Number 2** This is a descriptive study using an online survey instrument to assess collegiate student athlete perceptions of the supervised healthcare services provided by the athletic training student (ATS).

#### **Participants**

Paragraph Number 3 Male and female student athletes (18-40 years old) from NCAA

Division I, II, III, and NAIA institutions and CAATE accredited entry-level undergraduate

ATEPs will participate. Participants will be from all sports offered at the institution. Participant recruitment can be found in the Procedure section of this chapter.

#### **Measurements and Instrumentation**

**Paragraph Number 4** We will use a Likert scale survey with open-ended questions to assess comfort and satisfaction with healthcare services provided by ATSs (Appendix B). The survey will consist of 3 yes/no questions, 5 demographic questions, 1 question asking the participant to select characteristics that describe an athletic training student, 21 Likert scale questions, and 5 open ended questions. The yes/no questions will inquire whether the athlete has interacted with the ATS in the athletic training room or at their sport event/practice and will ask if the athlete is an athletic training student. The demographic questions will consist of questions related to the participant's gender, age, sport, division, and year in school. The questionnaire will use 11 questions to assess the athlete's satisfaction with the supervised services provided by the ATS and 10 questions to investigate the student athletes comfort level with the ATS. The five open-ended questions will be used to gather both specific and thematic information on the athlete's comfort and satisfaction with the ATS. The survey was developed from previous surveys that investigated satisfaction and perception of ATs and new questions created for this study.<sup>34</sup> An expert panel will evaluate the survey to establish content and face validity. Following validation, students at the host institution will complete the survey to ascertain length of time to complete and other potential survey obstacles not addressed by the expert reviewers. This data will not be included in data analysis. The survey will be hosted on Qualtrics and links to the survey will be sent out through mass email.<sup>45</sup>

#### Procedure

**Paragraph Number 5** The Indiana State University Institutional Review Board will approve the study prior to implementation (Appendix B). We will select colleges and universities at random from a public list of CAATE accredited institutions (www.caate.net). After selection

of the school, we will contact the sports information director (SID) by phone to determine if their institution would like to participate in the study. If we are unable to make contact with the sports information director at an institution, we will then contact the head athletic trainer to determine the institutions participation. After acceptance into the study, we will forward an e-mail to the SID or AT with a study description and link to the survey for institutional distribution. At the beginning of the data collection period, the SID or AT will e-mail all athletes at participating institutions to explain the survey and provide a link to complete the survey. Participation in the survey will imply consent. Reminder emails will be sent once a month throughout the data collection period. The data collection period will last two months. Athletes can take the survey at any point during this two month period.

#### **Analysis**

**Paragraph Number 6** We will use descriptive statistics to assess demographic items and perception scale, including frequency, mean, standard deviations, and percentages.

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#### **CHAPTER 4**

#### **MANUSCRIPT**

Collegiate Student Athlete Perception of Satisfaction and Comfort with Athletic Training

Students

#### Introduction

Paragraph Number 1 Education of an athletic training student (ATS) is similar to other medical professions, in that students participate in supervised clinical education to gain experience in working with patients. Supervised clinical experiences allow the ATS to take didactic information and apply it in real world settings such as high school sports, collegiate/university sports, out-patient clinics, hospitals, physician's offices, sports camps, minor and major league sports, occupational health, general medicine, industrial settings, or military settings. Supervised interactions between student athletes and patients help the ATS develop and fine-tune the professional skills needed to practice in the professional setting as a licensed practitioner. Collegiate athletes have a large amount of interaction with ATS's, yet research is lacking that investigates this relationship and the perceived satisfaction of care. These interactions can have positive and negative effects on both student athletes and ATSs including improper care given to the student athlete or a negative learning environment for the ATS.

Paragraph Number 2 Other medical professions with patient/student interactions have evaluated perceived satisfaction of health care services received by a medical student/intern. In one such study, 90.3% of patients reported having positive interactions during their treatment and were satisfied with the care they received from the medical student.<sup>20</sup> Other studies have shown that patients are satisfied with the interaction they have with the medical students and feel as though they are helping the future of the medical profession.<sup>20-29</sup>

Paragraph Number 3 Most studies on collegiate athlete satisfaction with athletic training services focus on the satisfaction with the certified athletic trainers (AT). These studies have shown that student athletes in lower profile sports have lower perceptions of satisfaction with the AT as compared to the higher profile sports. One study comparing student athlete satisfaction with ATs and ATSs at a single institution found that the student athletes were more satisfied with the ATs than the ATSs. This study also suggested that the ATS may work on a more personal level with the athlete in order to gain the trust of the athlete.

Paragraph Number 4 Compared to other medical professions, there is little information on the satisfaction and perception that patients/athletes have with ATSs. Research in this area can determine if the ATSs are actually providing satisfactory care to the population they are working with. Therefore, the purpose of this study was to assess student athlete satisfaction of supervised athletic training student interactions and care in the collegiate setting.

#### Methods

Research Design

**Paragraph Number 5** We used a descriptive study using an online survey instrument to assess collegiate student athlete perceptions of the supervised healthcare services provided by the ATS.

## **Participants**

Paragraph Number 6 We selected institutions at random from a public list provided by the Commission on Accreditation of Athletic Training (CAATE). Twenty-two CAATE institutions across the 10 NATA districts agreed to participate in this study. Sixty-six student athletes (age: 20±1 years, range=18-23 years) completed the survey (Table 1).

#### Instrumentation

Paragraph Number 7 A Likert scale and open-ended question survey was developed from previous surveys regarding patient satisfaction and comfort. The survey consisted of 3 yes/no questions, 5 demographic questions, 1 multiple-answer question asking the participant to select characteristics that describe an ATS, 21 Likert scale, and 5 open ended questions. The survey was developed and hosted in Qualtics. Two education experts reviewed the survey for face and content validity. We made changes based on the suggestions of these experts.

#### Procedure

Paragraph Number 8 We acquired institutional review board approval prior to data collection. Using a public list of CAATE institutions, the researchers arranged all the institutions by NATA district and selected each institution at random. The researchers called the sports information director at each institution to determine if the institution would like to participate in the study. If we were unable to make contact with the sports information director at an institution, we then contacted the head athletic trainer to determine the institutions participation. Upon acceptance into the study, we sent the sports information director or head AT an e-mail that included a survey description and a link to the web based survey. The SID or AT forwarded the survey description and link to all student athletes at that institution. The survey was open for 2 months and the student athletes could take the survey any time during those two months. A

reminder e-mail was e-mailed to the SIDs or ATs one month into the data collection period to be forwarded to the athletes. We collected and saved all responses anonymously.

Data Analysis

**Paragraph Number 9**We analyzed the quantitative data in Microsoft Excel 2010. We analyzed for statistics of central tendency.

#### Results

Paragraph Number 10 Twenty-two out of one hundred forty-one institutions contacted agreed to participate in the study. Sixty-six student athletes completed the survey. Females responded twice as frequently than males. We identified an even distribution between freshman, sophomores and juniors respondents (Table 1). Respondents varied among different sport teams with the exception of track & field and swimming & diving, which had the highest percentage of participation in the survey (Table 2).

**Paragraph Number 11** ATSs provided a variety of services to the student athletes in the athletic training room (Table 3). Athletes more commonly reported seeing ATSs taping and wrapping (n=32), rehabilitating injuries (n=27), providing ice treatment (n=14), and evaluating injuries (n=13). Student athletes also reported seeing ATSs providing heat, modalities, injury prevention, stretching, blister care and managing personal issues, but these were not as common.

Paragraph Number 12The student athletes selected characteristics from a list that best describe ATS's responsibilities (Table 4). Athletes perceived that ATS are primarily responsible for taping ankles (n=62, 93.9%), distributing water/sports drinks (n=62, 93.9%), and rehabilitating injuries (n=60, 90.9%). Athletes did not perceive ATSs as licensed health care professionals and few perceived ATSs as participating in emergency care. Correctly, the majority of athletes did not perceive ATS as paid staff.

Paragraph Number 13 Student athletes were asked to rate their level of satisfaction with ATSs (Table 5). Student athletes were most satisfied with the level of respect ATSs demonstrated  $(4.3\pm0.8)$ . Student athletes were also satisfied with the communication between the ATS and certified athletic trainer  $(4.2\pm0.9)$ , as well as the quality of care provided by the ATS  $(4.1\pm0.8)$ . The student athletes were least satisfied with ATSs' communication with coaches  $(3.7\pm1.2)$ , although this was still above average. Taping/wrapping skills  $(3.9\pm0.9)$  and evaluation skills  $(3.9\pm0.9)$  also received lower satisfaction scores than the other areas.

Paragraph Number 14 Student athletes rated their level of comfort with ATSs (Table 6). Student athletes were most comfortable with the ATS asking the AT when unsure of an injury  $(4.7\pm0.5)$ . The student athletes were also comfortable with talking to the ATSs about an injury  $(4.3\pm0.8)$  and having an ATS tape/wrap before a practice  $(4.2\pm0.8)$ . The student athletes were least comfortable with discussing personal issues with an ATS  $(3.6\pm1.0)$ . Student athletes were also less comfortable with the assessment of an injury by an ATS  $(3.7\pm0.8)$ .

### Discussion

Paragraph Number 15 An integral part of athletic training education, like many medical professions, is clinical experiences/coursework. 1-18, 32 The clinical education component allows the ATS to integrate didactic classroom information into real world clinical practice. The ATS participates in the daily operation of a collegiate athletic training room. The clinical component of athletic training education ensures that the ATS learns evaluation skills, rehabilitation skills, taping skills, preventive care, first aid care and other daily tasks under the direct supervision of a certified athletic trainer (AT) by engaging in the hands-on skills. Thus, ATSs aid in the preparation of pre/post-practice treatments, evaluation and rehabilitation. Student-athletes in this study accurately perceived that ATSs tape ankles, hydrate, and rehabilitate injuries. Fifty percent

of student athletes perceived that injury/illness prevention was part of an ATS's capabilities.

However, the student athletes did not understand that taping and hydration are preventative.

Prevention is a unique practice domain to athletic training compared to other medical professions and therefore student athlete recognition of the skill can improve understanding of ATS capability.

Paragraph Number 16Current literature in athletic training on student athlete satisfaction focuses on the satisfaction that the student athletes have with the AT. 19, 30, 31 These studies have shown that athletes in higher profile sports tend to have higher levels of satisfaction.<sup>31</sup> Institutions that have an athletic training education program, the ATSs are also involved in the daily operation of the athletic training room and interact with the student athletes just as much as the ATs do. Student athlete interactions with ATS can affect the general attitude that the student athlete has with the rest of the sports medicine staff. Research of this interaction is lacking in literature. The findings of this study demonstrate that student athletes are generally satisfied with the ATSs at their respective institutions. This result is similar to satisfaction studies done with patient/medical student interaction, in which medical students are consistently receiving high satisfactory marks. <sup>23, 24, 28</sup> Communication is one area that was on both the high end and low end of satisfaction in this study. Studies in medical education research have shown that patients are satisfied with the medical students when the medical student was part of the examination. <sup>21, 22</sup> Patients report being better informed of their problem when a medical student is part of the examination.<sup>22</sup> The student athletes in this study were satisfied with the communication with the ATSs well as the communication between the ATS and the AT. However, the athletes were less satisfied with the communication between the ATS and the coaching staff. This could be a result of the ATS just not having enough experience talking to coaches, or that often ATS are not yet

ready in their educational preparation to communicate with coaches. An understanding of ATS roles may be lacking and therefore student athletes may perceive it is the ATS position to relay information to the coaches when perhaps it is not. To help improve this area, clinical supervisors can implement situational practicals to help the ATS work their way through conversing with a coach or higher authority figure. In addition, an introduction to the roles and responsibilities of an ATS to the team at the beginning of a competitive season may help improve understanding. Athletic training students, like students in other medical professions, received satisfactory marks from their patient population. 20-29

Paragraph Number 17 We also measured student athlete comfort with ATSs. Previous studies looking at social support have demonstrated that athletes had a higher adherence to the rehabilitation program if the athlete had a good rapport with the AT.<sup>33</sup> If the athlete is more accepting of the rehabilitation and believes that the treatment is working, then the athlete may progress more quickly and return to play sooner. Patients who have interacted with medical students report that medical students spent more time with the patients.<sup>20</sup> This increase in interaction may lead to a higher comfort level with the student. ATSs, while supervised by an AT, help with rehabilitation of injured athletes in the athletic training room. Student athletes in this study were comfortable with the ATS asking an AT about an injury. Comfort with this process demonstrates that student athletes appreciate the presence of ATS in their healthcare. By utilizing the social support of the AT and ATS, the athlete has the potential for greater rehabilitation outcomes.<sup>34</sup>

**Paragraph Number 18** An area of lower comfort for a student athlete was discussing personal issues with the ATS. The discussion of personal issues with a student is not just limited to athletic training education. In a study looking at patient/medical student interactions, one-third

of patients found it difficult to discuss personal issues with medical students.<sup>22</sup> Aside from interacting in the athletic training room, interactions may also occur in resident halls, classrooms, and possibly at social functions. Current literature suggest that peers are more likely to look to one another when dealing with personal issues.<sup>35</sup> The results from this study suggest that student athletes are less comfortable with discussing personal problem with other peers, in this case ATS's. In the athletic training room, the student athlete may seek help from the ATs in dealing with personal issues due to the increased experience and professional level.

Paragraph Number 19 We were unable to run further statistical analyses due to the small number of respondents. The lack of responses became a large limitation for this study. We contacted one hundred forty-one schools, but only twenty-two schools allowed us to survey their athletes. Schools who did not allow us to survey their athletes cited that school policy, athletic conference policy, or large number of internal studies as reasons for their refusal to participate. Future studies will need to investigate alternative methods of obtaining responses to a study of this nature.

Paragraph Number 20 The findings of this study help shed light onto an area of athletic training education that is lacking in research. Student athlete satisfaction and comfort levels can help in determining potential changes in curriculum for an ATEP. Results of this study suggest that there is a need to improve communication between ATSs and coaches. The findings of this study also help guide future education of student athletes about the roles of athletic training students. Student athletes may not be fully aware of the roles that ATSs play in the function of the athletic training room.

### Conclusion

Paragraph Number 21 Medical professions, realizing that the future of their profession lies in the education of students, have studied patient satisfaction with students in healthcare professions. The athletic training profession has not adequately investigated student athlete satisfaction with athletic training students. This study has shown that student athletes are generally satisfied and comfortable with athletic training students. This satisfaction and comfort can have benefits for both parties involved, including better outcomes for the student athlete and a better educational experience for the ATS.

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Table 1. Participant Demographic Characteristics (n=66)

Participant Characteristic	n	Frequency	
Gender			
Male	20	30.3%	
Female	46	69.7%	
Division			
NCAA D1	23	34.8%	
NCAA D2	13	19.7%	
NCAA D3	26	39.4%	
NAIA	4	6.1%	
Academic Year			
Redshirt Freshman	1	1.5%	
Freshman	20	30.3%	
Sophomore	14	21.2%	
Junior	16	24.2%	
Senior	11	16.7%	
5 <sup>th</sup> year Senior	2	3.0%	
Redshirt (other)	2	3.0%	

Table 2. Participant Sports (n=66)

Sport	n	Percentage	
Baseball	2	3.0%	
Basketball	8	12.1%	
Cross Country	4	6.1%	
Football	5	7.6%	
Soccer	6	9.1%	
Softball	7	10.6%	
Swimming and Diving	11	16.7%	
Track and field	11	16.7%	
Volleyball	5	7.6%	
Other	6	9.1%	
Unreported	1	1.5%	

Table 3. Athletic Training Services Used (n=66)

Service Used	n	Percentage	
Tapping/ Wrapping	32	48.5%	
Rehabilitation	27	40.9%	
Ice	14	21.2%	
Evaluation	13	19.7%	
Heat	4	6.1%	
Other Modalities	4	6.1%	
Injury Prevention	3	4.5%	
Stretching	3	4.5%	
Blister care	1	1.5%	
Personal issues	1	1.5%	

Table 4. Athletic Training Student Characteristics (n=66)

Characteristics	n	Percentage	
Tape Ankles	62	93.9%	
Distribute Water/Sports drinks	62	93.9%	
Rehabilitate Injuries	60	90.9%	
Evaluate Injuries	50	75.7%	
Prevent Injuries/illnesses	33	50.0%	
Staff in Athletic Training Room (paid for service)	23	34.8%	
Emergency Care	20	30.3%	
Licensed health care professional	6	9.1%	

Table 5. Student Athlete Satisfaction (n=66)

Statement	Mean	±SD
Level of concern for your feelings or emotions following an injury	4.0	0.7
Communication between you and the Athletic Training Student	4.1	0.9
Communication between the Certified Athletic Training and the	4.2	0.9
Athletic Training Student		
Communication between coaches and the Athletic Training Student	3.7	1.2
Level of respect shown to you by Athletic Training Student	4.3	0.8
Knowledge demonstrated by the Athletic Training Students	4.0	0.7
Various taping and wrapping skills	3.9	0.9
Evaluation skills demonstrated by the Athletic Training Student	3.9	0.9
Quality of rehabilitation demonstrated by the Athletic Training	3.9	0.8
Student		
First aid care provided by Athletic Training Student	4.0	0.8
Quality of care provided by Athletic Training Student	4.1	0.8

Table 6. Student Athlete Comfort (n=66)

Statement	Mean	±SD
Approaching the Athletic Training Student about an injury	4.2	0.8
Talking about your injury with Athletic Training Student	4.3	0.8
Discussing personal issues with Athletic Training Student	3.6	1.0
Level of confidentially between you and the Athletic Training Student	3.9	0.8
Athletic Training Student tapping or wrapping you before practice	4.2	0.8
Athletic Training Student tapping or wrapping you before a competition	4.1	0.9
Assessment of injury by Athletic Training Student	3.7	0.8
Rehabilitation of an injury by an Athletic Training Student	3.9	0.7
Athletic Training Student asking Certified Athletic Trainer about when	4.7	0.5
they are unsure about your injury		
Athletic Training Student asking other Athletic Training Student when	3.9	1.0
they are unsure about your injury		

# APPENDIX A: STUDY PARAMETERS

### **Definitions and Abbreviations**

Approved Clinical Instructor (ACI) - An appropriately credentialed professional identified and trained by the program Clinical Instructor Educator to provide instruction and evaluation of the Athletic Training Educational Competencies and/or Clinical Proficiencies. The ACI may not be a current student within the athletic training education program (ATEP). 32

Certified Athletic Trainer (AT) - Unique health care providers who specialize in the prevention, assessment, treatment and rehabilitation of injuries and illnesses.  $^{46}$ 

Athletic Training Education Program (ATEP) – A Commission on Accreditation of Athletic Training Education (CATTE) accredited program at a college or university that teaches students become athletic trainers and prepares students to take the Board of Certification (BOC) exam.

Athletic Training Student (ATS) - A student enrolled in the athletic training major or graduate major equivalent. Not a pre-professional or observational student. <sup>32</sup>

Board of Certification (BOC) – A governing body that establishes standards for which athletic trainers practice and the only accredited certifying body for athletic trainers.<sup>47</sup>

Clinical Instructor Educator (CIE) - The BOC Certified Athletic Trainer recognized by the institution as the individual responsible for ACI training.<sup>48</sup>

Clinical Instructor (CI) - An individual identified to provide supervision of athletic training students during their clinical experience.<sup>48</sup>

Collegiate setting - A work or educational setting based at a college or university.

Collegiate Student Athlete – A student who participates in NCAA/NAIA sanctioned athletics while enrolled in coursework at a university or college.

Commission on Accreditation of Allied Health Education (CAAHEP) - A programmatic postsecondary accrediting agency recognized by the Council for Higher Education Accreditation

(CHEA) and carries out its accrediting activities in cooperation with 18 review committees (Committees on Accreditation). Later replaced by the Commission on Accreditation of Athletic training Education (CAATE).<sup>49</sup>

Commission on Accreditation of Athletic Training Education (CAATE) – A agency responsible for the accreditation of 360 professional (entry-level) ATEPs. 50

Committee on Allied Health Education and Accreditation (CAHEA) – An accrediting organization that was later replaced by CAAHEP.

National Association of Intercollegiate Athletics (NAIA) – A governing body of athletics for member institutions.

*National Athletic Trainer Association (NATA)* – The professional membership for ATs.

National Colligate Athletic Association (NCAA) – A governing body of athletics for member institutions.

Sports Information Director (SID) – A university employee who is a liaison between the media and athletic department.

### **Delimitations**

The study will be delimited to ATSs in CAATE accredited undergraduate Entry-Level Athletic Training Education Programs. Athletes will be delimited to individuals in collegiate settings between the ages of 18 and 40.

### Limitations

The study will be limited by response rate, self-reporting, amount of interaction, and amount of supervision and student autonomy. The rate of response will depend on institution acceptance to the request to participate in the study as well as if the athletes at participating institutions choose to complete the survey. Some athletes may not have worked with an ATS, and therefore may not complete the survey. Since the study requires self-reporting, the honesty

of participating athletes may be questionable. Some athletes with a strong relationship with the ATS outside of the athletic training room may be more generous with their response.

The amount of interaction will not be quantified. Athletes and ATSs may interact with one another outside the athletic training room or practice facility. Amount of supervision and student autonomy will be a limitation because ATEPs are unique to each institution. ATSs at these institutions will be in same settings and following a different curriculum. The different curricula and settings may affect intended outcomes.

# APPENDIX B: RELEVANT STUDY FORMS

### **IRB Exempt Approval**



Institutional Review Board

Terre Heute, Indiana 47809 812-237-3092 Euro 613-337, 5000

DATE: September 30, 2011

TO: Kelth Tebbe

FROM: Indiana State University Institutional Review Board

STUDY TITLE: [274536-1] Collegiate Student Athlete Perception of Satisfaction and Comfort

with Athletic Training Students

IRB REFERENCE #: 12-018
SUBMISSION TYPE: New Project

ACTION: DETERMINATION OF EXEMPT STATUS

DECISION DATE: September 30, 2011

REVIEW CATEGORY: Exemption category #2

Thank you for your submission of New Project materials for this research study. The Indiana State University institutional Review Board has determined this project is EXEMPT FROM IRB REVIEW according to federal regulations (45 CFR 46). You do not need to submit continuation requests or a completion report. Should you need to make modifications to your protocol or informed consent forms that do not fall within the exempt categories, you will have to reapply to the IRB for review of your modified study.

Internet Research: You are using an internet platform to collect data on human subjects. Although your study is exempt from IRB review, ISU has specific policies about internet research that you should follow to the best of your ability and capability. Please review Section L. on Internet Research in the IRB Policy Manual.

Informed Consent: All ISU faculty, staff, and students conducting human subjects research within the "exempt" category are still ethically bound to follow the basic ethical principles of the Belmont Report: a) respect for persons; 2) beneficence; and 3) justice. These three principles are best reflected in the practice of obtaining informed consent.

If you have any questions, please contact Thomas Steiger within IRBNet by clicking on the study title on the "My Projects" screen and the "Send Project Mail" button on the left side of the "New Project Message" screen. I wish you well in completing your study.

-1-

Generated on IRBNet

### **Institution Participation Request Letter**

Dear Sir or Madam,

My name is Keith Tebbe and I am an athletic training graduate student at Indiana State University working towards my Masters of Science in Athletic Training. I am conducting a study to investigate the satisfaction and comfort levels that collegiate student athletes have towards athletic training students. I am contacting you today to request your schools participation in the study.

The study itself will consist of an online survey that will be taken by the student athletes at your institution during the fall semester. The student athletes will be asked a series of Likert scale and open-ended questions pertaining to their comfort and satisfaction with the supervised health care services provided by the athletic training students. No information will be gathered that can identify the individual athletes. Participation in this study is completely voluntary.

I am asking you to reply to this e-mail to inform me of your institutions acceptance or rejection to participate in this study. Upon acceptance into the study, you will be contacted to determine the delivery of the survey by selecting one of two options. One option will involve the researcher sending an e-mail to you with a consent letter and link to the study which can then be forwarded to the student athletes at your institution. The other option is to send the researcher the e-mail address of the student athlete which will then be entered into the online survey and delivered to the student athletes. Any e-mail addresses collected will remain confidential and at the conclusion of the study will be destroyed by appropriate means.

Feel free to contact me if you have any questions regarding the study. Also contact me if there are any complications with having your institution involved in the study. I will gladly contact any other officials at your institution in regard to participating in this study. My contact information is as follows:

Keith Tebbe 631 W. Main St. Wheatland, IN 47597 ktebbe1@indstate.edu Phone- (217) 246-5003

Thank you for your time and I hope to hear back from you on your institution decision to participate in this study.

Sincerely, Keith Tebbe, ATC, LAT Indiana State University

### **Student Athlete Participation Request Letter**

Dear athlete,

My name is Keith Tebbe and I am an athletic training graduate student at Indiana State University seeking my Masters of Science in Athletic Training. I am conducting a study to investigate the comfort and satisfaction levels that collegiate student athletes have towards athletic training students. I am contacting you today to request your participation in the study.

The study consists of an online survey. You will be asked to answer Likert scale and open ended questions regarding your comfort and satisfaction with the supervised health care services provided by the athletic training students at your institution. The survey will take approximately 15 min to complete. You are asked to be as honest as possible when answering the questions. All information collected will remain confidential. You may withdraw from the study at any point while taking the survey with no penalty. There are no known risks to completing the survey. Participation in this study is completely voluntary.

If you choose to not participate in the study, delete this e-mail. A follow up email will be e-mailed as a reminder to participate in the study, but disregard this if you have already chosen to not participate in this study.

If you choose to participate in the study, click on the following link which will take you to the website hosting the survey. Once at the website you will be asked to give your consent to participate in the study.

### I Wish to Participate

If you have any questions about the study, feel free to contact me at the following e-mail address, <a href="ktebbel@indstate.edu">ktebbel@indstate.edu</a>. I thank you for your time.

Keith Tebbe, ATC, LAT Indiana State University

# Instrument

Link to instrument: <a href="https://indstate.qualtrics.com/SE/?SID=SV\_br7d2GTRrwmRpHe">https://indstate.qualtrics.com/SE/?SID=SV\_br7d2GTRrwmRpHe</a>



Please take 10 minutes of your time to help us understand how you feel working with Athletic Training Students.

This research project is being conducted by Keith Tebbe, Dr. Lindsey Eberman, and Dr. Leamor Kahanov from the Department of Applied Medicine and Rehabilitation at Indiana State University. The objective of this research project is to understand your comfort and satisfaction with the services provided by Athletic Training Students.

There are no known risks if you decide to participate in this research study, nor are there any costs for your participation. This survey is anonymous. There is no way to ensure full anonymity using the internet; however this is an encrypted online survey tool. No one will be able to identify you, nor will anyone be able to determine your academic institution. No one will know whether you participated in this study.

Your participation in this study is voluntary. If you choose to participate, please click the NEXT box below.

If you have any questions or concerns about completing the questionnaire or about being in this study, you may contact Keith Tebbe at (217) 246-5003 or at ktebbe1@sycamores.indstate.edu.

If you have any questions about your rights as a research subject, you may contact the Indiana State University Institutional Review Board (IRB) by mail at Indiana State University, Office of Sponsored Programs, Terre Haute, IN 47809, by phone at (812) 237-8217, or by e-mail at irb@indstate.edu.

Please state your willingness to participate below.

Yes, I wish to participate.

No, I do not wish to participate.





# Are you an Athletic Training Student? Yes No >>>

Survey Powered By Qualtrics



Yes	No
•	•

Survey Powered By Qualtrics



Have you used Athletic Training Services recently? If yes, please describe (taping/wrapping, evaluation, recent injury, rehabilitation, prevention program, personal issue, etc.)?

	Yes		
0	No		

>>



Gender	
Age	
, ige	
Sport	
Athletic Division	
<b>T</b>	
Academic Year	



Of the following characteristics, choose the best to describe an Athletic Training Student. SELECT ALL THAT APPLY.

_					
	200		-	n Izil	es
	d L	ᇨ	a	IIN	25

rape ankies

Evaluate injuries

Rehabilitate injuries

Distribute water/sports drink

## Prevent injuries/illnesses

Emergency care

Staff in Athletic Training Room (paid for service)

Licensed health care professional

>>



Please rate your level of satisfaction for the following statements. If you have NOT had the experience described, please DO NOT rate the item.

	Very Dissatisfied	Dissatisfied	Neutral	Satisfied	Very Satisfied
Level of concern for your feelings or emotions following an injury	•	•	0	0	0
Communication between you and the Athletic Training Student	0	©	<b>©</b>	©	©
Communication between the Certified Athletic Training and the Athletic Training Student	•	•	•	0	0
Communication between coaches and the Athletic Training Student	0	©	©	©	©
Level of respect shown to you by Athletic Training Student	0	0	0	0	0
Knowledge demonstrated by the Athletic Training Students	<b>(c)</b>	<b>(</b>	0	<b>(</b>	<b>(</b>
Various taping and wrapping skills	0	0	0	0	0
Evaluation skills demonstrated by the Athletic Training Student	<b>(c)</b>	0	©	<b>(</b>	<b>©</b>
Quality of rehabilitation demonstrated by the Athletic Training Student	0	©	0	0	©
irst aid care provided by thletic Training Student	<b></b>	0	©	©	0
tuality of care provided by thletic Training Student	0	0	0	0	0



Please rate your level of comfort for the following statements. If you have NOT had the experience described, please DO NOT rate the item.

	Very Uncomfortable	Uncomfortable	Neutral	Comfortable	Very Comfortable
Approaching the Athletic Training Student about an injury	•	•	•	•	©
Talking about your injury with Athletic Training Student	©	0	0	0	<b>(</b>
Discussing personal issues with Athletic Training Student	©	©	0	0	•
Level of confidentially between you and the Athletic Training Student	<b>©</b>	©	0	6	©
Athletic Training Student tapping or wrapping you before practice	•	•	•	•	•
Athletic Training Student tapping or wrapping you before a competition	<b>(</b>	©	<b>©</b>	<b>(</b>	©
Assessment of injury by Athletic Training Student	©	©	0	©	©
Rehabilitation of an injury by an Athletic Training Student	©	<ul><li></li></ul>	<b>©</b>	©	<b></b>
Athletic Training Student asking Certified Athletic Trainer about when they are unsure about your injury	©	•	©	•	©
Athletic Training Student asking other Athletic Training Student when they are unsure about your injury	©	©	©	©	©



How do you feel ab	oout your sport setting being used a	as a clinical experience for the Ath	nletic Training
How do you feel ab	oout your sport setting being used a	as a clinical experience for the Ath	nletic Training
How do you feel ab	oout your sport setting being used a	as a clinical experience for the Ath	nletic Training

	^
	1
nat are some of the reasons why you might not approach an Athletic Trainin	ng Student about an injury?
	A
	₩
	▼
	~
you interact with the Athletic Training Student(s) outside the athletic trainin	ng room or sport setting? If so, orking sites, etc.).
you interact with the Athletic Training Student(s) outside the athletic training plain the nature of your interactions (i.e. class, social functions, social netwo	ng room or sport setting? If so, orking sites, etc.).
you interact with the Athletic Training Student(s) outside the athletic trainin plain the nature of your interactions (i.e. class, social functions, social netwo	ng room or sport setting? If so, orking sites, etc.).
you interact with the Athletic Training Student(s) outside the athletic training plain the nature of your interactions (i.e. class, social functions, social netwo	ng room or sport setting? If so, orking sites, etc.).
you interact with the Athletic Training Student(s) outside the athletic trainin plain the nature of your interactions (i.e. class, social functions, social netwo	ng room or sport setting? If so, orking sites, etc.).
you interact with the Athletic Training Student(s) outside the athletic trainin plain the nature of your interactions (i.e. class, social functions, social netwo	ng room or sport setting? If so, orking sites, etc.).
you interact with the Athletic Training Student(s) outside the athletic training plain the nature of your interactions (i.e. class, social functions, social netwo	ng room or sport setting? If so, orking sites, etc.).
you interact with the Athletic Training Student(s) outside the athletic training plain the nature of your interactions (i.e. class, social functions, social netwo	ng room or sport setting? If so, orking sites, etc.).



Thank you for participating in this research. Your contributions are appreciated.

Survey Powered By Qualtrics

## APPENDIX C: RAW DATA

Participant	ant Accept Are you an Have you interacted with the Survey Athletic ATS's assigned to your sport? Training Student?		Survey Athletic ATS's assigned to your sport? Services recently Training		Services Used
1	1	2	1	1	ice, roll outs, ice bath
2	1	2	1	1 1	
3	1	2	1	1	persibal issues recent injury, rehabilitation
4	1	2	1	1	recent back injury
5	1	2	1	1	Wrapping(?) (ice bags)
6	1	2	1	1	Taping
7	1	2	1	1	taping,rehabilitation
8	1	2	1	1	taping/wrapping, STEM
9	1	2	1	1	Second skin
10	1	2	1	1	Taping/wrapping, Rehab for MCL Sprain, Treatment for Asthma
11	1	2	1	1	icing knee
12	1	2	1	1	Heat, Ice, Evaluation, Taping, Injury, Consultation
13	1	2	1	1	Evaluation
14	1	2	1	1	evaluation, rehabilitation
15	1	2	1	1	heat on pulled muscle
16	1	2	1	1	taping/wrapping
17	1	2	1	1	pulled quad and meniscus tear
18	1	2	1	1	Heat Therapy and Wrapping
19	1	2	1	1	taping, rehab, recent injury

Participant		ant Accept Are you an Survey Athletic Training Student?		Have you interacted with the ATS's assigned to your sport?	Have you used AT Services recently?	Services Used	
20		1	2	1	1	evaluation of knee pain	
21		1	2	1	1	taping/wrapping, achilles soreness	
22		1	2	1	1	Wrapping, Rehab, Evaluation	
23		1	2	1	1	taping/wrapping	
24		1	2	1	1	tapping	
25		1	2	1	1	taping and rehab	
26		1	2	1	1	taping/wrapping	
27		1	2	1	1	taped ankles	
28		1	2	1	1	taping	
29		1	2	1	1	taping/wrapping	
30		1	2	1	1	ice	
31		1	2	1	1	recent injury	
32		1	2	1	1	chronic shoulder injury, ice, ultrasound, e-stem, laser, heat	
33		1	2	1	1	wrapping	
34		1	2	1	1	wrapping quad	
35		1	2	1	1	rehabilitation	
36		1	2	1	1	recent injury, taping	
37		1	2	1	1	heat and ice knee	
38		1	2	1	1	ACL rehab	
39		1	2	1	1	injury and taping	
40		1	2	1	1	personal issue	

Participant	Accept Survey	Are you an Athletic Training Student?	Have you interacted with the ATS's assigned to your sport?		Services Used
41	1	2	1	1	taping/wrapping
42	1	2	1	1	Ice and Ice Baths
43	1	2	1	1	taping/wrapping
44	1	2	1	1	ultra sound, taping, wrapping, icing, rehabilitation
45	1	2	1	1	rehab
46	1	2	1	1	Many timessprained anklerehab
47	1	2	1	1	icing/stretching
48	1	2	1	1	ice bag/wrapping
49	1	2	1	1	recent injury
50	1	2	1	1	Ankle Rehab and Taping, Stretching
51	1	2	1	1	taping/wrapping, chronic injury rehabilitation, prevention exercises, modalities
52	1	2	1	1	rehabilitation program
53	1	2	1	1	rehabilitation
54	1	2	1	1	taping, rehab
55	1	2	1	1	shoulder therapy
56	1	2	1	1	rehab, stem
57	1	2	1	1	Rehab for lower back
58	1	2	1	1	Rehabilitation, prevention program

Participant	Accept Survey	Are you an Athletic Training Student?	Have you interacted with the ATS's assigned to your sport?	Have you used AT Services recently?	Services Used
59	1	2	1	1	ice and rehabilitation
60	1	2	1	1	rehab
61	1	2	1	1	mcl rehab; left and right ankle tape for practices/games
62	1	2	1	1	maconal tapping,knee brace, b petellar formal syndrome
63	1	2	1	1	tapping
64	1	2	1	1	rehab
65	1	2	1	1	ice bathes
66	1	2	1	1	rugby

-	Participant	Gender	Age	Sport	Athletic Division	Academic Year
-	1	2	18	13	3	2
	2	2	19	13	3	3
	3	2	18	13	3	2
	4	2	20		3	4
	5	1	20	13	3	7
	6	1	22	13	3	4
	7	1	18	5	3	2
	8	2	20	14	3	3
	9	2	22	13	3	5
	10	1	19	5	3	3
	11	2	18	11	3	2
	12	1	23	10	3	6
	13	1	19	1	3	3
	14	1	22	1	3	6
0	15	2	18	11	3	2
	16	1	18	10	3	2
	17	2	21	10	3	5
	18	1	20	10	3	4
	19	1	22	5	3	2
	20	2	20	3	3	4
	21	2	19	2	3	3
	22	2	18	2	3	3
	23	1	18	5	3	2
	24	1	20	3	3	3
	25	2	19	10	3	3

Part	icipant	Gender	Age	Sport	Athletic Division	Academic Year
	26	2	21	2	3	4
	27	2	18	2	4	2
	28	2	20	2	4	4
	29	2	18	2	2	2
	30	2	18	12	2	2
	31	2	18	12	2	2
	32	2	20	12	2	4
	33	2	22	12	2	5
	34	2	18	2	1	2
	35	2	21	3	4	5
	36	2	21	14	4	5
	37	2	21	14	2	5
	38	1	20	12	2	3
	39	1	19	13	2	3
	40	2	18	2	2	2
	41	2	18	12	2	2
	42	2	18	12	2	2
	43	1	20	16	2	3
	44	2	18	16	2	2
	45	2	21	12	1	5
	46	1	21	13	1	4
	47	2	19	11	1	3
	48	2	20	11	1	4
	49	2	18	16	1	2
	50	1	18	10	1	2

Participant	Gender	Age	Sport	Athletic Division	Academic Year
51	2	21	16	1	7
52	2	21	13	1	5
53	1	21	13	1	4
54	2	22	14	1	5
55	2	21	11	1	4
56	2	20	11	1	4
57	2	20	11	1	4
58	2	21	14	1	5
59	2	19	12	1	3
60	2	19	13	1	3
61	2	21	16	1	5
62	2	19	12	1	4
63	1	18	5	1	1
64	2	20	12	1	4
65	1	20	3	1	4
66	2	19	16	1	2

Participant	Tape ankles	Evaluate injuries	Rehabilitate injuries	Distribute water/ sports drink	Prevent injuries/ illnesses	Emergency care	Staff in Athletic Training Room (paid for service)	Licensed health care professional
1	1		1	1	1		1	
2	1	1	1	1				
3	1		1	1			1	
4	1	1	1	1				
5	1	1	1	1				
6	1		1	1		1	1	
7	1	1	1	1				
8	1	1	1		1	1	1	
9	1	1	1	1				
10	1	1	1	1	1	1		
11	1	1	1	1	1		1	
12	1	1	1	1	1	1	1	
13	1	1	1	1	1	1	1	
14	1	1	1	1			1	
15	1	1	1	1	1			
16	1	1	1	1	1	1	1	
17	1	1	1	1				
18	1	1	1	1	1		1	
19	1		1	1				
20	1	1	1	1	1		1	
21	1	1	1	1	1	1		
22	1	1	1	1				

Participant	Tape ankles	Evaluate injuries	Rehabilitate injuries	Distribute water/ sports drink	Prevent injuries/ illnesses	Emergency care	Staff in Athletic Training Room (paid for service)	Licensed health care professional
23			1					
24	1		_	1	1		1	
25	1	1	1	1	1	1	-	
26	1	1	1	1	_	-		
27	1	1	1	1	1	1		
28	1	1	1	1	_	_		
29	1	1	1	1	1	1	1	1
30	1	1		1	1			
31	1	1	1	1				
32	1	1	1	1				
33	1			1				
34	1	1	1	1	1			
35			1					
36	1	1	1	1				
37	1		1	1	1			
38	1		1	1				
39	1	1	1	1	1	1		
40	1	1		1				
41	1			1				
42	1			1	1			
43	1	1	1	1	1	1	1	1
44	1	1	1				1	

Participar	t Tape ankles	Evaluate injuries	Rehabilitate injuries	Distribute water/ sports drink	Prevent injuries/illnesses	Emergency care	Staff in Athletic Training Room (paid for service)	Licensed health care professional
45		1	1	1	1	1		
46	1	1	1	1	_	-		
47	1	1	1	1				
48	1	1	1	1			1	
49	1	1	1	1			1	
50	1	_	1	1	1		_	
51	1	1	1	1	1	1		
52	1	1	1	1	1	1		
53	1	_	_ 1	1	_	_		
54	1		1	1				
55	1	1	1	1	1			
56	1	1	1	1				
57	1	1	1	1	1			
58	1	1	1	1	1			
59	1		1	1				
60	1	1	1	1	1	1	1	1
61	1	1	1	1	1	1	1	1
62	1	1	1	1				
63	1	1	1	1	1	1	1	1
64		1	1	1			1	
65	1	1	1	1	1	1	1	
66	1	1	1	1	1	1	1	1

1	Participant	Level of concern for your feelings or emotions following an injury	Communication between you and the Athletic Training Student	Communication between the Certified Athletic Training and the Athletic Training Student	Communication between coaches and the Athletic Training Student	Level of respect shown to you by Athletic Training Student	Knowledge demonstrated by the Athletic Training Students
_	1		4	Judent	5	4	
	2	4	4	4	4	4	4
	3	7	2	7	7	5	7
	4	1	1	1	1	1	1
	5	3	4	5	5	5	5
	6	4	5	5	5	5	4
	7	4	5	5	5	4	4
	8	4	4	3	1	4	4
7/	9	5	4	5	4	5	4
	10	5	5	5	5	5	5
	11	4	4	3	3	4	4
	12	5	5	5		5	4
	13	4	4	4	4	5	4
	14	4	4	4	4	4	5
	15	4	4		5	5	4
	16	4	4	4	4	4	4
	17	4	4	5	3	5	4
	18	4	4	4	3	4	4
	19	3	4	4	3	4	4
	20	4	5	4	3	5	4

	Participant	Level of concern for your feelings or emotions following an injury	Communication between you and the Athletic Training Student	Communication between the Certified Athletic Training and the Athletic Training	Communication between coaches and the Athletic Training Student	Level of respect shown to you by Athletic Training Student	Knowledge demonstrated by the Athletic Training Students
	21	5	5	5	5	5	5
	22	4	5	5	3	5	4
	23	4	4	5	5	4	4
	24	4	4	5	_	5	5
	25	5	5	5	5	4	5
	26	5	3	4	4	5	4
	27		5	5	5	5	5
75	28	4	4	4	4	4	4
٠.	29	5	5	5	5	5	5
	30	3	3	3	4	4	4
	31	3	4	4	4	2	4
	32	3	3	4		2	4
	33	3	1	3	1	3	3
	34	4	5	5	4	4	4
	35	4	5	5	4	5	4
	36	4	5	5	5	5	4
	37	4	4	4	2	4	3
	38	5	4	5		5	4
	39	4	5	3	3	5	4

	Participant	Level of concern for your feelings or emotions following an injury	Communication between you and the Athletic Training Student	Communication between the Certified Athletic Training and the Athletic Training Student	Communication between coaches and the Athletic Training Student	Level of respect shown to you by Athletic Training Student	Knowledge demonstrated by the Athletic Training Students
	40		4	4	5	4	4
	41	4	4		3	4	3
	42	3	2	3	3	4	3
	43	5	5	5	5	5	5
	44	3	4	4	4	4	3
	45	4	4	4	5	4	4
	46	4	4	4		4	4
7	47	4	2		2	4	2
,	48	3	3	2	2	5	3
	49	5	5	5	5	5	5
	50	4	4	4	3	4	4
	51	4	4	2	4	3	4
	52	4	4	5	1	4	2
	53	4	4	4	4	4	4
	54	4	4	4	2	5	5
	55	5	5	5	3	5	4
	56	5	4	4	4	4	4
	57	4	4	4	4	4	4
	58	4	5	4	3	5	4

Participant	Level of concern for your feelings or emotions following an injury	Communication between you and the Athletic Training Student	Communication between the Certified Athletic Training and the Athletic Training Student	Communication between coaches and the Athletic Training Student	Level of respect shown to you by Athletic Training Student	Knowledge demonstrated by the Athletic Training Students
59	4	4		4	5	4
60		5	4	5	3	4
61	4	4	5	5	4	4
62	3	4	4	3	4	4
63	4	4	4	4	4	4
64	3	5	4	4	4	4
65						
66						

Particip	oant	Various taping and wrapping skills	Evaluation skills demonstrated by the Athletic Training Student	Quality of rehabilitation demonstrated by the Athletic Training Student	First aid care provided by Athletic Training Student	Quality of care provided by Athletic Training Student
1				4		4
2	<u> </u>	4	4	4	4	4
3	3					
4	ļ	1	1	1	1	1
5	5	5	5	5	3	3
6	5	4	4	4	4	5
7	7	4	4	4	4	4
8	3	5	3	3	5	4
9	)	4	5	5		5
10	0	5	5	5	5	5
1:	1	4	4	4	4	4
13	2	5	4	4	4	4
13	3	4	4	4	4	4
14	4	4	4	4	5	5
1	5					5
10	6	4	4			4
1	7	4	4	4	4	4
18	8	4	3	4	4	4
19	9	2	2	3		3
20	0	4	3	4		4
2:	1	5	5	5	5	5
2	2	3	5	5	3	5
2	3	3	5	5	5	5

Participant	Various taping and wrapping skills	Evaluation skills demonstrated by the Athletic Training Student	Quality of rehabilitation demonstrated by the Athletic Training Student	First aid care provided by Athletic Training Student	Quality of care provided by Athletic Training Student
24	5				
25	4	4	4	4	4
26	3	4	4	4	4
27	4	5		5	5
28	4	4	3	3	4
29	5	5	5	5	5
30	4	4	4	3	4
31	4	3	4	3	4
32		4	3		3
33	2	2	2	2	2
34	4		4		4
35	3	5	5	5	5
36	4	5	5	5	5
37	5	4	4	4	4
38		3	4		4
39	5	5	5	3	5
40					4
41	4	4			4
42	3	5	3	4	4
43	5	5	5	5	5
44	3	3	3	3	4
45		4	4		4

Participant	Various taping and wrapping skills	Evaluation skills demonstrated by the Athletic Training Student	Quality of rehabilitation demonstrated by the Athletic Training Student	First aid care provided by Athletic Training Student	Quality of car provided by Athletic Training Student
46	3	4	4	4	4
47	3	3	3	4	3
48	2	3	3	4	4
49	5	5	5	5	5
50	4	4	4	4	4
51	4	4	4	4	4
52	2	2	2	4	4
53	4	3	4		4
54	5	4	4	4	5
55	4	4	5	5	5
56	4	4	4	4	4
57	4	4	4	4	4
58	4	3	4	4	4
59	4	3	4	4	4
60		4		3	2
61	3	3	3	4	4
62	4	4	3		4
63	4	4	4	4	4
64	4	4	4	3	3
65					
66					

Pa	rticipant	Approaching the Athletic Training Student about an injury	Talking about your injury with Athletic Training Student	Discussing personal issues with Athletic Training Student	Level of confidentially between you and the Athletic Training Student	Athletic Training Student tapping or wrapping you before practice
	1	4	4	3	3	5
	2	5	5	5	4	5
	3	4	4			5
	4	5	5	5	5	5
	5	5	5	4	4	5
	6	4	5	5	5	3
	7	4	4	4	4	4
	8	4	5	4	4	5
	9	4	5	2	3	5
	10	5	5	5	5	5
	11	4	4	2	4	4
	12	4	4	3	3	
	13	4	4	3	4	3
	14	5	5	5	5	4
	15	5	5	5	4	
	16	4	4	3	4	5
	17	3	3	3	3	2
	18	4	4	4	4	4
	19	3	3	3		
	20	5	5	2	4	5
	21	5	5	5	5	5
	22	3	5			

Participant	Approaching the Athletic Training Student about an injury	Talking about your injury with Athletic Training Student	Discussing personal issues with Athletic Training Student	Level of confidentially between you and the Athletic Training Student	Athletic Training Student tapping or wrapping you before practice
23	5	5		4	5
24	5	5	3		
25					
26	4	3	2	4	3
27	5	5	5	5	5
28	4	4	3	3	4
29	5	5	5	5	5
30					
31	3	5	4	3	
32	4	4	3	4	4
33					
34	4	4	4	4	4
35	5	5	4	3	
36	5	5	5	4	4
37	5	5	2	2	5
38	4	5	4		
39	5	5	3	5	5
40	4	4			
41	4	4	2		4
42	4	4	4	4	3
43	5	5	5	5	5
44	3	3	2	3	4
45	5	4	3	4	

Participant	Approaching the Athletic Training Student about an injury	Talking about your injury with Athletic Training Student	Discussing personal issues with Athletic Training Student	Level of confidentially between you and the Athletic Training Student	Athletic Training Student tapping or wrapping you before practice
46	4	4	4	4	4
47	2	2	4	4	
48	4	2	2	3	4
49	3	3	2	4	5
50	4	4	3	4	4
51	4	5	4	4	4
52	2	4	3		2
53	4	4	3		4
54	4	4	4	4	5
55	4	5	3	2	4
56	5	5	4	5	5
57	5	5	5	5	5
58	5	5	4	4	3
59	4	4	3	4	4
60	3	4	4	2	5
61	4	5	3	3	4
62	3	4	3	4	3
63	4	4	4	4	4
64					
65					
66					

	Participant	Athletic Training Student tapping or wrapping you before a competition	Assessment of injury by Athletic Training Student	Rehabilitation of an injury by an Athletic Training Student	Athletic Training Student asking Certified Athletic Trainer about when they are unsure about your injury	Athletic Training Student asking other Athletic Training Student when they are unsure about your injury
	1	5	3	4	5	2
	2	4	4	4	5	5
	3	5	2	3	5	4
	4	5	5	5	5	5
	5	5	4	4	5	5
	6	5	4	4	3	4
	7	4	4	4	4	4
	8	5	4	3	5	4
	9	4	4	5	5	5
0	10	5	5	5	5	5
	11	4	2	4	4	4
	12		3	3	5	4
	13	3	5	4	4	5
	14	4	4	5	5	5
	15				5	5
	16	5	4	4	5	5
	17	2	3	3	4	4
	18	3	3	3	4	3
	19	4		4	5	3
	20		4	4	4	3
	21	5	5	5	5	5

Participant	Athletic Training Student tapping or wrapping you before a competition	Assessment of injury by Athletic Training Student	Rehabilitation of an injury by an Athletic Training Student	Athletic Training Student asking Certified Athletic Trainer about when they are unsure about your injury	Athletic Training Student asking other Athletic Training Student when they are unsure about your injury
22		4	3	5	3
23	5	3	4	5	4
24	3	3	4	3	4
25					
26	3	2	3	5	2
27	5	2	3	5	5
28	4	4	4	4	4
29	5	5	5	5	4
30	3	3	3	3	
31		5	5	5	5
32		4	4	4	4
33		7	7	7	7
34	4	4	4	4	4
35	т	4	4	5	5
36	4	3	4	5	4
37	5	2	4	5	3
38	3	3	4	5	J
39	5	4	5	5	5
40	3	•	J	3	4
41	4	3	3	4	2

P	articipant	Athletic Training Student tapping or wrapping you before a competition	Assessment of injury by Athletic Training Student	Rehabilitation of an injury by an Athletic Training Student	Athletic Training Student asking Certified Athletic Trainer about when they are unsure about your injury	Athletic Training Student asking other Athletic Training Student when they are unsure about your injury
	42	2	2	2	5	3
	42					
	43 44	5	5	5	5	5
		4	3	3	5	5
	45	2	4	4	5	4
	46	3	4	4	4	4
	47		2	2	4	4
	48	4	3	3	4	2
,	49	5	4	5	5	5
`	50	4	4	4	4	4
	51	4	3	2	5	2
	52	2	4	3	5	2
	53	3	3	4	5	2
	54	5	4	4	5	2
	55	4	4	4	4	4
	56	5	5	5	5	5
	57	5	4		5	3
	58	3	4	4	5	4
	59	4	3	4	5	4
	60	5	4	4	5	5
	61	4	3	4	5	3

Participant	Athletic Training Student tapping or wrapping you before a competition	Assessment of injury by Athletic Training Student	Rehabilitation of an injury by an Athletic Training Student	Athletic Training Student asking Certified Athletic Trainer about when they are unsure about your injury	Athletic Training Student asking other Athletic Training Student when they are unsure about your injury
62	3	3	4	4	3
63	4	4	4	4	4
64					
65					
66					

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Participant	What do you think the role of an Athletic Training Student is at your institution?		
42	To become an Atheletic Trainer they must learn from other athletic trainers by observing athletes in a hands on		
	environment. if they are not allowed to do so then they will never learn		
43	Help the athletes with whatever problems they may have.		
44	Learn what it takes to be an athletic trainer		
45	carrying out the tasks assigned by the head trainers, motivating athletes to do rehab, provide information and support when head trainers are absent		
46	To help them get hands on experience		
47	They are supposed to perform basic tasks like rehab, stretching, icing etc.		
48	Their role is to make sure their is a first aid kit and water at all practices and take care of minor injuries immediately. If there is a major injury, after a doctor evaluates it, then the trainer can help with rehab facilitated by the doctor and the trainer can check up on the injury. One of their main jobs is to communicate to the coaches about injuries especially if the athlete is trying to cover it up and hide it.		
49			
50	The same as a piad athletic trainer. Their job is to make sure the athletes are healthy and can participate		
51	They have a huge role. With the amount of teams we have, its difficult for the limited ATCs to take care of everything. Their skill depends on how much effort they put into learning, which determines how active a role they take. They assist rehab and evaluating athletes with supervision or consultation with an ATC and can then actively learn while helping the athletes.		
52	To help around with streching, preparing ice bags, handling rehab exercises.		
53	assist with rehab and assist athletic trainer with various tasks.		
54	assist the athletic trainer and do lesser duties of an athletic trainer		
55	very well organized, care alot for the athletes but just seem a little shy		
56	to help athletes with injuries to get healthy as quickly and efficently as possible		
57	To help out certified trainer and to learn from the certified.		
58	The Athletic Training Student is there to gain experience working in a field that they plan to pursue as a career. They slowly take on more roles as the season progresses including pre-practice responsibilities, taping/wrapping, some supervised evaluation, and assisting with rehabilitation and evaluation.		

Participant	What do you think the role of an Athletic Training Student is at your institution?		
59	They are the extra eyes and hands for the athletic trainers because there are so many athletes.		
60	to help and prevent injury and illness		
61	To get the training they need to become a certified athletic trainer. Tape, rehab, answer questions/ concerns of the athlete		
62	I think it is neat that they get to have experience with hands on interaction with the athletes.		
63	it has potential		
64			
65			
66			

Participant	How do you feel about your sport setting being used as a clinical experience for the Athletic Training Students?		
45	Fine most are very attentive and without them getting lets of clinical time they are not going to learn		
45 46	Fine, most are very attentive and without them getting lots of clinical time they are not going to learn.  Its fine		
47	I think that they can gain a lot of experience especially in cases of muscle soreness or pulled muscles. I think they can learn a lot by helping our team.		
48	I think it's fine.		
49	I think it is a good thing. It also gets rugby out there to those who had never heard of it.		
50	It is nesecsary. I don't see how else people could learn to be trainers		
51	I find myself as a clinical experience, so I think it's great. Students are there to learn. Women's rugby is a		
	different sport, which offers different injuries and more opportunity to learn.		
52	I mind only when they are trying to asses me or telling invalid information.		
53	I think it is the best way for student athletic trainers to learn. In general they are very helpful and allow the		
	training room to run much more smoothly.		
54			
2 55	good, they get the knowledge of being hands on with an athlete. they get the understanding and a idea of		
	the care that may be given by seeing the injury happen.		
56 	i dont mind because it exposes them to all types of injuries first hand		
57 	It doesn't bother me, I hope they love learning!		
58	Honestly, it depends on the student. If the Athletic Training Student understands their role and earns		
	respect of the athletes and formulates that relationship then I do not mind the students at all. When I can		
	tell the student does not want to be there or does not care to learn then I do not like having them there. It		
	puts me at ease knowing that they are there to learn but there is also a certified Athletic Trainer that will be		
59	advising everything.		
59 60	I feel like its fine as long as I can trust them and I do.		
61	I like it. Rugby isnt very popular and its different; good for them to be diverse		
01	Tilke It. Nugby isilt very popular and its different, good for them to be diverse		

Participant	How do you feel about your sport setting being used as a clinical experience for the Athletic Training Students?
62	I don't mind. More power to the school if they have students that can come in and help with rehab and injuries. Its just as big of help for the athletes to have them their as it is for the students.
63	it has potential
64	
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Pa	articipant	ant How do you feel about receiving care from the Athletic Training Students?		
	1			
	2	I received most of my care from athletic training students		
	3			
	4	Comfortable and trusting		
	5	They are supposed to know what they're doing. They know more than me, as long as I can be clear communicating my problems, I trust them.		
	6	Comfortable		
	7			
	8	I trust my trainers.		
	9	They do a very good job. They are very conscientious, especially because of being students and being watched.		
	10	Love it		
	11	Personally, I know alot about athletic training just from having plenty of injuries myself, so if they are doing something wrong, I would know.		
	12	I am fine with it because our school requires knowledge before they can particapte in giving care		
2	13	I feel that they are trained well by the athletic training professors at our school, so I feel that I am in good hands when they care for me.		
	14	I dont mind it if I am sure they know what they are doing. I have full faith in out athletic training staff that they have instructed the students in what they are supposed to do		
	15	I feel that as long as they are supervised and learning that I am comfortable with them giving me care.		
	16	I feel fine with it		
	17	it depends, i am very comfortable with the upper level students however, some of the younger ones are not as expierenced and i dont mind letting them practice on my however i dont want to practice or play with the tape job		
	18	Fairly Comfortable		
	19			
	20			
	21			
	22	they do a good job of what they are told to do		

Participant	cicipant What are some of the reasons why you might not approach an Athletic Training Student about an inju		
1	If it was an awkward injury (ie groin injury) and I was uncomfortable around the male students.		
2	They are busy, or it is obviously very very bad so I would see the head trainer		
3			
4	n/a		
5	If it was something I did that was stupid (i.e. kicked a chair, tripped over myself)		
6	If the injury is severe, internal or may need professional evaluation and care.		
7			
8	If it is a injury that wouldn't allow me to participate in my sport.		
9	I think they may not understand the injury if they have not seen it before, like when my arch dropped.		
10	Might be put down from practice		
11	I would feel better asking someone who is certified, not just learning.		
12	becaue I am ok with them assessing my injury because I may not know exactly what is going on		
13	Fear of them not letting me compete.		
14	There are none		
15	If it is very serious, or if there is a certified trainer readily available.		
16	none		
17	they have not had as much instruction or experience as the ATC		
18	Lack of knowledge, I'm more comfortable talking to someone who is Certified.		
19			
20			
21			
22	They guess a lot and don't often give deffinitive answers		
23	If it is a serious injury that may keep me out of competetion.		
24			
25			
26	if i have a serious injury / / the number of years of experience		

Participant	What are some of the reasons why you might not approach an Athletic Training Student about an injury?	
27	The only reason I might not want to approach a student about an injury would be if the student were to be male and	
	my injury might be in a place that would be uncomfortable for a male my age to handle.	
28		
29	Scared they will tell me I cannot practice	
30		
31	I would be embarassed about having more than one injury or going into the training room more than once.	
32	They don't pay a lot of attention to you when entered the athletic training room. Sometimes they seem more concerned with studying for their next exam or talking with the other students instead of helping.	
33	They don't care enough.	
34		
35	Its not that serious, or I do not personally know the athletic trainer that is for my sport.	
36	If I feel the injury is out of their knowledge then I would ask the certified trainer.	
37	Initally if i have an injury I always talk to one of the head trainers first then I get treated by the athletic training students. I do this because I feel more comfortable having the head trainer evaluating me and them telling the athletic trainging students what to do.	
38	I think it's something serious and they don't know enough to correctly diagnos me.	
39	If i am not injured very bad.	
40	You may not want to sit out of the sport you are in, the injury may not be as crucial, or you don't want to.	
41	If my injury is extremely severe, I want a professional to help me.	
42	the same answer as above. i am lazy and i get rushed so it seems like it would be faster to have a trainer wrap me for ice	
43	If the injury is not serious enough. If it is just sore.	
44	I may feel like it would be better if seen by a doctor	
45	more personal or server where you know they wont be as knowledgeable.	
46	They don't know what they are doing	
47	They don't know what they are doing.	

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48	They may not know anything about it and they might make it seem more extreme than it is which would result in me sitting out of practice or a game.
49	I would not want to miss a game.
50	Because I want to play
51	They're not fully educated. They're personality makes them unapproachable. They're lazy. They're irresponsible.
52	I don't feel they are competent enough. I have had personal experiences where they have had no idea what was wron with me.
53	They are not certified to diagnose injuries and they do not have the experience of a certified athletic trainer
54	not as experienced
55	they may not understand exactly you are talking about, or they may be confused on the treatment to give.
56	sometimes they arent as forceful when necessary in stretches or massages, and they sometimes arent allowed to issu a different excercise for my injury.
57	Pain, fear of getting injured
58	Some of the reasons I may not approach an Athletic Training Student about an injury is just because I feel like I can receive a better, more well-informed answer from the certified Athletic Training Student.
59	They might not know what it is.
60	they act like they dont want to do any work
61	Inexperience, don't take their role seriously
62	When they seem to not really know what they are doing, look unapproachable
63	lack of experience
64	
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Participant	Do you interact with the Athletic Training Student(s) outside the athletic training room or sport setting? If so, explain the nature of your interactions (i.e. class, social functions, social networking sites, etc.).	
1		
2	Yes! I always say hi to them when I see them around campus! Also, I am friends with a lot of them on facebook.	
3		
4	no	
5	Some AT students are my friends. We eat, play games, watch movies, play music, go to class events.	
6	Yes. Classrooms, off campus, social functions, social networking.	
7		
8	I see my trainers around campus and at social functions, and on facebook.	
9	I have had class with some of the training students and I am friends with some of them too	
10	Yes, Classes and I am friends with most of my trainers	
11		
12	Class, School, Social functions	
13	Yes. I have classes with some of them plus I am friends with them on social networking sites.	
14	Yes, Class, Social functions, social networking sites, and on my team	
15	yes, in the dorms I talk to them frequently about pains and aches I may have. Many of them show me how to mal ice bags, stretch, etc.	
16	Yes, class, social functions, Facebook	
17	yes, a lot of my really good friends are athletic training students	
18	Yes, social functions, or day to day class	
19		
20		
21		
22		
23	I Meet and see many of our athletic training students at social functions. /	
24		
25		

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Participant	Do you interact with the Athletic Training Student(s) outside the athletic training room or sport setting? If so,	
	explain the nature of your interactions (i.e. class, social functions, social networking sites, etc.).	
26	not really	
27	Yes. We have been at social functions together and are friends on Facebook.	
28	I interact with some of the athletic training students at social functions.	
29	I see them in the hallway-very nice and caring	
30		
31	No	
32	Not a whole lot. Sometimes I seem them on campus or in the school cafeteria. Once or twice they have asked how I am doing, but other than that not much.	
33	No	
34		
35	Social functions and social networking. I am pretty good friends with most of the athletic trainers.	
36	Yes. We have hung out together at parties and eat in the school cafeteria together.	
37	Yes we are facebook friends, and we go to parties together.	
38	No	
39	yes, class and social functions	
40	No.	
41	Yes, one of them works in our writing lab and also helps me with my essays.	
42	yes, in my dorm. they are cool!!!!	
43	Yes, classes with them. Interacting.	
44	no	
45	no	
46	Not really	
47	n/a	
48	Yes I see them in passing around campus and at a few social functions.	
49	Yes I might see them on my way to class, we would be a facebook friends, and at a social function.	
50	No	

Participant	Do you interact with the Athletic Training Student(s) outside the athletic training room or sport setting? If so, explain the nature of your interactions (i.e. class, social functions, social networking sites, etc.).
51	I see them around campus, but I don't hang out with them outside the ATR.
52	Yes, we go out to dinner after practices and connect on facebook.
53	I am in many classes with student athletic trainers. I also interact with some of them at social functions on networking sites.
54	class, social functions
55	No
56	yes, social networking, and i see my previous trainers at social functions sometimes
57	Yes, class I am a teacher assistant for Human Anatomy so I help to tutor a lot of them
58	I do not see the Athletic Training Student assigned to my team very often outside the athletic training room or gym.
59	Yes if they aren't in charge of my sport but once assigned to us. We are not allowed to interact in a social setting.
60	no
61	Yes. Friends
62	
63	yes
64	
65	
66	

## **Contacted Schools**

Salem State University Colby-Sawyer College University of New Hampshire

Norwich University

University of Southern Maine

Castleton State College

**Boston University** 

University of Maine – Orono Westfield State University

Springfield College

University of Maine at Presque

Isle

Keene State College

University of Connecticut

Scared Heart University

Central Connecticut State

University

**Endicott College** 

**Bridgewater State University** 

Merrimack College

Plymoth State University

Southern Connecticut State

University Marist College

Mercyhurst College

Canisius College

SUNY - Cortland

California University of

Pennsylvania

University of Pittsburgh at

Bradford

SUNY – Brockport Neumann University Dominican College

Rowan University Hofstra University

Montclair State University

Alvernia University

Slippery Rock University

Messiah College

Pennsylvania State University

Kean University Alfred University Temple University

William Paterson University

Erskine College

Methodist University (NC)
University of South Carolina

Western Carolina University

Limestone College

George Mason University

George Washington University

Gardner-Webb University

Bridgewater College Roanoke College

North Carolina Central

University

Lees-McRae College

University of North Carolina –

Wilmington

Mars Hill College

Appalachian State University

James Madison University Illinois State University

University of Mount Union

Saginaw Valley State University

Minnesota State University –

Mankato

Manchester College Urbana University

College of Mount St. Joseph

Lewis University

Northern Michigan University

Franklin College

McKendree University

University of Wisconsin -

LaCrosse

University of Indianapolis

Bethel College

Dakota Wesleyan University University of Nebraska –

Omaha

Central Methodist University

Iowa State University Emporia State University Lindenwood University

Culver-Stockton College

Missouri State University

University of Iowa

University of Mary Hardin-

Baylor

University of Central Arkansas

Arkansas State University

West Texas A & M University

Texas Lutheran University

Texas A &M University –

Corpus Christie

Southern Arkansas University

**Baylor University** 

Texas A &M University –

Commerce

Hardin-Simmons University

Fort Lewis College

University of Northern

Colorado

Metropolitan State College of

Denver

Weber State University

University of Utah

Southern Utah University

Northern Arizona University

New Mexico State University

Colorado Mesa University – Colorado State University –

Pueblo

Brigham Young University

Grand Canyon University

Point Loma Nazarene

University

California State University –

Fresno

University of the Pacific University of LaVerne

California State University –

Long Beach

Loyola Marymount University

California State University –

Northridge

California State University -

Sacramento

Chapman University

San Jose State University

Vanguard University

California State University -

Fullerton

Azusa Pacific University

Concordia University – Irvine

(CA)

University of Nevada – Las

Vegas

San Diego State University

The Florida State University

**Troy University** 

Murray State University

Valdosta State University

Tusculum College

Georgia College and State

University

Northern Kentucky University

Middle Tennessee State

University

University of Southern

Mississippi

Florida Southern College

Whitworth University

Eastern Washington University

Boise State University

Washington State University

University of Idaho

University of Montana

George Fox University

Linfield College

Oregon State University

Eastern Illinois University

University of Indianapolis

## **Accepted Schools**

Oregon State University Linfield College Whitworth University Springfield College Georgia College and State University Emporia State University University of Nebraska – Omaha Dakota Wesleyan University McKendree University Methodist University (NC) University of Charleston Slippery Rock University Montclair State University Mercyhurst College University of Southern Maine University of Indianapolis Keene State College Sacred Heart University Eastern Illinois University Otterbein University George Fox University Bethel College