



This document outlines the proposed changes and updates to the Athletic Trainer Scope of Practice in Connecticut based on the Education and Preparation of an Athletic Trainer.

Connecticut Athletic Trainers' Association

Scope of Practice Report

Submitted by: CATA Governmental Affairs

Introduction

The Connecticut Athletic Trainers' Association (CATA) greatly appreciates the opportunity to submit this scope report to the Connecticut Department of Public Health. This report will demonstrate the impact athletic trainers (ATs) can have on access to healthcare in Connecticut, the education and training of ATs, and proposed updates to the athletic training scope of practice. The proposed updates to the AT scope of practice will allow athletic trainers to practice to the full extent of their education and training. Additionally, it will improve healthcare for the residents of Connecticut, lower the rising costs of healthcare and improve patient outcomes through collaboration of the AT with other health care practitioners.

For many years the Connecticut Athletic Trainers' Association has been highly involved with various legislative issues impacting the health and safety of students, student-athletes, and other members of the public in Connecticut. The CATA has worked closely with the Public Health Committee, Education Committee, and Committee on Children and many individual legislators including but not limited to; Sen. Martin Looney, Sen. Betsy Ritter, Sen. Terry Gerratana, Rep. Joe Aersimowicz, Rep. Susan Johnson, Rep. Andrew Fleischmann, Rep. Janice Giegler, Rep. Themis Klarides, Rep. Diana Urban, among others. The CATA has been a leading advocate for legislation requiring AEDs in schools, concussion awareness and safety, improved access to emergency medications for students needing epi-pens, inhalers, and glucagon, and improved awareness of sudden cardiac arrest.

This scope report outlines the abilities, education and training of an AT, along with the efforts of the CATA to communicate, educate and remain transparent with all invested parties throughout the past 4 years. This is our third submission to the Department of Public Health and we look forward to working through this as a group. We look forward to continuing our work with various groups and health care professionals as well as the DPH. Please forward any questions to the CATA Governmental Affairs Committee:

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Thank you for your time and consideration.

Connecticut Athletic Trainers' Association

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CH 1: Plain language description of the request

Introduction

The request for updating the Connecticut athletic training (AT) practice act (Connecticut General Statutes 375a) is primarily a result of the evolution of the profession and the increased participation of the population in sports and physical activity. With the addition of standardized educational competencies and the accreditation of educational programs, the current scope of practice and statutory language in Connecticut is outdated. A visual timeline of these events can be found in the Appendices. Additionally, Connecticut is the only state in the nation which defines an athlete by the amount of time they participate in sport (i/e: 3 times per week) this in turn restricts athletic trainers in covering various youth sporting events and giving care to youth athletes, in addition to those participating in recreational physical activities. The Connecticut Athletic Trainers' Association (CATA) would like to thank all the individuals involved in the initial licensing of ATs in the state including CATA members and leaders at the time, the Department of Public Health and the many legislators who support the AT profession.

Current Statutory Language

The current AT practice act was written in the 1990's, passed by the General Assembly in 2000, and enacted by the Department of Public Health in 2006. At the time the current practice act was written and subsequently passed, the profession was in the process of reform to ensure consistency of the educational process for ATs. The main result of this education reform was that all ATs must graduate from an accredited institution in order to sit for the Board of Certification Examination, a prerequisite for licensure in all states except Texas. More detailed information regarding the accreditation of athletic training education programs, educational competencies and the Board of Certification examination follow in Chapter 6: Education and Training. In addition to educational reform, many states have since updated their athletic training practice acts, and many more are now in the process, to ensure ATs can practice to the full extent of their education and training. Athletic trainers practice under the direction of a healthcare provider as defined in the CT state statute which reads as follows: "health care provider" means a person licensed to practice medicine or surgery under chapter 370 of the general statutes, chiropractic under chapter 372 of the general statutes, podiatry under chapter 375 of the general statutes or naturopathy under chapter 373 of the general statutes. ***In the remainder of the document health care provider refers to this definition.*** More information regarding other states and the practice of athletic training is detailed in Chapter 12.

Over the past 15-20 years, athletic training has evolved from a field that existed primarily to provide health care to professional, collegiate and secondary school athletes, to a profession providing prevention and care to a wide range of physically active individuals in various settings. Nationally, ATs commonly use their skills to provide services to individuals in fields as diverse as the performing arts, U.S. military, NASA, public safety (e.g., police and firefighters), and to those who work in industrial settings.¹ More information regarding the education and competencies of an AT can be found in Chapter 6 of this scope of practice report.

Although the current Connecticut AT practice act language was written in order to allow ATs to treat athletes, and individuals who have comparable injuries, this is often not the case because of confusion among employers about the statute. As a result, athletic trainers in Connecticut are limited in their ability to practice to the full extent of their education and training. All athletic trainers must graduate from a 4-year institution with a Bachelor's degree in athletic training and are required to pass a national board of certification exam. More information regarding education

can be found in Chapter 6. Furthermore, in a recent five-year period, three of Connecticut's five athletic training education programs reported an average of 54% of AT graduates leaving the state for employment or educational opportunities. For more information regarding statistics and the economic impact of the AT scope of practice, please refer to Chapter 9 of this scope of practice report.

Primary Areas of Concern

The primary areas the Connecticut Athletic Trainers' Association (CATA) would like to address with this scope of practice update are:

- 1) Remove the confusion about whom ATs may treat by substituting the word "physically active individual" for the word "athlete" in the statutory language.
 - a. Outcome:
 - i. This change will allow AT's to practice to the full extent of their education under the direction of a health care provider which includes: a person licensed to practice medicine or surgery under chapter 370 of the general statutes, chiropractic under chapter 372 of the general statutes, podiatry under chapter 375 of the general statutes or naturopathy under chapter 373 of the general statutes.
 - ii. Codifies *existing* practice of AT's in non-athletic settings by permitting AT's to provide prevention and treatment skills on non-athletic populations with similar injuries
 - iii. Affords greater access to injury prevention, treatment and rehabilitation services with referral to underserved populations such as youth and recreational individuals.
 - iv. Removes the current restricting language that is *unique* to Connecticut regarding the definition of athlete which includes a 3 times per week criteria.
- 2) Clarify the ability of ATs to manage medical conditions other than injuries under the direction of a health care provider as defined above in section 1a-i. ATs regularly work with patients with chronic diseases and are some of the leading researchers in concussion and exertional heat illness. AT's are broadly trained to identify many other medical conditions such as but not limited to exertional sickling, rhabdomyolysis, asthma, diabetes, heat stroke, and other conditions that may be exacerbated by physical activity and carry out the orders of a health care provider in the management of these conditions. Furthermore, ATs are recognized in Connecticut statutes as health care providers for concussion, sudden cardiac care, and epi-pen, asthma inhaler, and glucagon administration in schools in the state. Ironically, the ability to provide care for these conditions is not necessarily permitted by the current AT licensure bill.
 - a. Outcome:
 - i. Allows a broader population access to health care professionals who can safeguard those patients before, during, and after physical exertion.
 - ii. Helps provide direction into the care of non-orthopedic conditions by AT's and protects AT's from violating the state practice act when caring for non-orthopedic issues
 - iii. Permits athletic trainers to care for all athletes, not just those who are involved in participation three or more days per week (as defined by the current AT practice act)

More detailed information regarding specific changes and limitations in the athletic training practice act please refer to Chapter 12.

References:

1. National Athletic Trainers' Association. Practice Settings for the Athletic Trainer.
<http://www.nata.org/athletic-training/job-settings>

CH 2: Public Health & Safety

This chapter outlines the public health and safety benefits that the requestor believes will occur if the request is implemented and, if applicable, a description of any harm to public health and safety if it is not implemented

Public Health and Safety Benefits

ATs are health care professionals work under the direction of a healthcare provider as previously defined and collaborate with other allied health care professionals to provide health care particularly in the area of musculoskeletal injury. ATs provide services in the domains of prevention, emergency care, clinical assessment, therapeutic intervention and rehabilitation of injuries.¹ Athletic training is approved by the American Medical Association (AMA) for inclusion in the Health Professions Career and Education Directory. The Connecticut Athletic Trainers' Association (CATA) urges and fully supports updating the AT scope of practice to reflect ATs skills and full breadth of education and knowledge. Updating the scope of practice directly supports public health and safety in four critical ways:

- Strengthens supervision of AT's by placing stricter controls on standing orders
- Permits the extension of AT care to underserved populations such as *youth* and recreational athletes not covered by the current definition of athlete. This care includes injury prevention, assessment, emergency management and treatment.
- Allows otherwise healthy individuals to have greater access to rehabilitative care for injuries through access to AT practitioners with a *referral* from a health care provider.
- Permits AT's to apply their preventive skills in reducing work-place injury and job time loss thereby decreasing workmen's compensation claims as seen in other states
- Clarify the role of the AT in caring for illnesses related to an athlete's or individual's role in physical activity.

Overview

Athletic trainers work under the direction of a healthcare provider as previously defined through standing orders in an athletic setting. The suggested changes to the scope of practice would place a stricter requirement on ATs to review standing orders with their healthcare provider and maintain regular contact with them. Furthermore, any individual who is not pre- screened or in a situation where an athletic trainer is working without standing orders those individuals would be *referred to a physician* for further evaluation. Additionally, any individual or athlete who has sustained an injury and is not showing improvements within 4 days of injury also requires a referral. The current statute (CGS Chapter 375a, Sec. 20-65f) limits athletic trainers to the care of athletes who are regular participants in sports or recreational activities with regular defined as participating in activities “not less three times per week.” This limitation is *unique* to Connecticut in that it is the only state that defines how many times someone must participate in order to be considered an athlete, and unfortunately can prevent ATs from providing necessary acute and/or emergency care to several groups of individuals.

Youth athletes, perhaps the most vulnerable to injury of all of the athletic populations, often practice less than the required minimum three days per week. Radelet et al. noted injury rates between 1 and 1.7 for every 100 athletes playing youth sports in youth across all sports.¹ Fourteen percent of the injuries in football were considered serious requiring immediate medical care.¹ Adirim and Chang noted that children are prone to sport injury due to a large surface area to mass ratio, and possess joint cartilage that is not fully mature. The authors also noted that with an earlier focus on specific sports, children are at greater risk for overuse injuries.² As a result the authors felt qualified medical personnel be available at all sporting events.² The current statute, as written, prevents an AT from providing care to these injured individuals as these youth athletes may not satisfy the legal requirements of being an “athlete” as

defined by the current AT practice act. Requested changes in the scope of practice will permit the AT to be available at those sports that do not meet the “three day a week” requirement, thereby providing qualified medical care for our children.

The current statute affects ATs employed in the workplace. ATs are employed in the workplace, normally under a different work title usually through a physical therapy clinic sponsoring work injury prevention programs. Athletic trainers in this work setting do not work in the capacity of an AT due to the requirement that ATs work only with “athletes” prevents them from providing care to the full extent of their education and training, or even officially as athletic trainers. The requested changes in the AT scope of practice would permit an AT to be employed as such in different workplace settings. Thereby allowing an AT to apply all of the knowledge and skills that are within her/his professional preparation and contribute to the comprehensive health care team. More detailed information regarding the return on investment of an AT in the workplace can be found in Chapter 9. Additionally, the update to the scope of practice which will reflect the ATs full knowledge and education will add supplementary employment opportunities for CT college graduates.

Rehabilitative Care

ATs are well-qualified to provide rehabilitative services to injured athletes and individuals, particularly in the area of musculoskeletal injury. Due to ATs extensive experience in athletics, ATs are highly experienced in functional and movement-specific exercise. With the proposed change in scope of practice, ATs would be able to extend this care to the physically active individuals and workers. A greater role in rehabilitation would be extremely beneficial in the care of Connecticut’s citizens. The requested changes in the scope of practice would permit ATs to apply their expertise beyond the athlete for those patients who are referred by a health care provider. An expanded presence of ATs in the post-rehabilitation realm will allow individuals released from physical therapy practices and are not yet fully recovered opportunities for continued care. Individuals released from therapy following the exhaustion of insurance coverage typically rely on personal trainers to continue their recovery and return to participation. Unlike ATs, personal trainers often have minimal training, such as a home study or online course, and are not regulated by the state. The updated scope of practice would permit ATs, who are well-educated in injury assessment and rehabilitation skills to care for individuals who do not qualify as athletes under Connecticut law. As a result, the quality of care for all citizens can be improved with the increased access to quality rehabilitative care.

Prevention of Workplace Injuries

Injury and illness prevention have been reinforced in athletic training curriculums through the inclusion of courses such as exercise physiology, nutrition, strength / conditioning, and biomechanics throughout the history of athletic training education. The expansion of the ATs skills beyond the athletic setting could be extremely beneficial in preventing musculoskeletal conditions across the general population, particularly in the workplace setting.

Increased access to the workplace setting would allow ATs to apply their knowledge and professional skills in preventing workplace injury. Nationally, ATs have already demonstrated their ability to effectively reduce workplace related injury at such global corporations as Boeing, Delta Airlines, Kimberly-Clark and UPS. In Connecticut, a very limited number of athletic trainers are successfully employed in the industrial setting, albeit under a different title and in a restricted role. The requested changes in professional practice would allow an expansion of AT employment in the workplace setting across the multiple corporations housed in Connecticut. As a result, employer costs in workmen’s compensation, and hiring replacement employees would be reduced assisting in the financial viability of the various companies. Application of prevention skills can assist the employee in limiting disability due to acute and chronic conditions such as low back pain.

Clarifying the Role of the AT in Caring for Illness

ATs routinely manage patients who have allergies, asthma, diabetes and other medical conditions. The AT is involved in these cases, often carrying out the recommended plan of the athlete’s treating physician. Additionally,

ATs are responsible for providing care for acute manifestations of the athlete's conditions. The proposed changes to the practice act address current AT practice in managing and providing care for patients with medical conditions.

The proposed language which appropriately reflects the education and training of the AT, will enable ATs to effectively manage illnesses and other emergent conditions under the direction of a healthcare provider as previously defined. ATs will be permitted to administer the physician's orders in the care of an acute illness or condition. The intent is **NOT** to have athletic trainers diagnose and develop a plan of treatment for ill individuals, but to be able to follow through on the expectations of the patient's treating physician.

Potential Harm to Public Health and Safety without Implementation

The current statute prevents the AT from applying acute care to individuals who are not defined as an "athlete". As a result, vulnerable populations that could benefit from the professional skill and experience of an AT are not able to receive such care. Youth and recreational athletes, participating less than 3 days per week, are being "treated" by a parent volunteer on the sidelines, a teammate or a bystander when acutely injured, few of these individuals are qualified to do so. With so many recreational sports and youth athletics ensuring ATs are on the sidelines is of utmost importance to the protection of the CT public. For instance, concussion awareness in CT has drastically increased and having an AT on the sideline can ensure that athletes of all ages are being properly cared for and appropriately referred when warranted.

In terms of rehabilitation, the current restrictions affect the recovery of citizens across Connecticut. Not all individuals should be referred to ATs, licensed health care providers will decide who can best provide care to individuals. However, changes in the law would permit otherwise healthy people to receive qualified care from an AT for musculoskeletal injuries making the AT a viable piece of the rehabilitation team.

Failure to enact the requested changes will limit the ability of individuals to extensively employ ATs to prevent injuries at the workplace setting. Reducing the availability of Connecticut's corporations to hire personnel educated in preventing injury may harm business viability. The Health Care Cost Institute (www.healthcostinstitute.org) states that rising health care spending is injuring economic growth. The American Medical Association notes that the cost of healthcare is rising rapidly. Connecticut's premium rate in 2007 for workman's compensation was the 14th highest in the nation (www.cga.ct.gov/2007/rpt/2007-R-0173.htm). Clearly the escalating health care costs must be addressed with preventing injuries and illnesses representing the best option.

References:

1. Radelet, M., Lephart, s. Rubinstein, E., Myers, J. Survey of the injury rate for children in community sports, Pediatrics 110,3,2002
2. Adirim, T., Cheng, T. Overview of Injuries in the Young Athlete, Sports Medicine 33, 1, 75-81,2003

CH 3: Public Access to Healthcare

This chapter outlines the Impact this request will have on public access to healthcare in the state of Connecticut.

Impact on Public Access to Healthcare

Expanding the current athletic training scope of practice to appropriately reflect the current educational competencies as well as proficiencies set forth by the National Athletic Trainers Association Executive Committee on Education (NATA-ECE), will increase public access to healthcare in the state of Connecticut. These competencies and proficiencies are outlined in **Chapter 6: Education and Training of the scope of practice report.**

Updating the scope of practice will allow athletic trainers (ATs) to:

- Utilize all of their skills and expertise that reflect their educational training and certification
 - All ATs graduate from a 4 year institution and all have to pass a national board of certification exam. Please refer to **Chapter 6** for detailed information regarding education as well as information regarding updates to athletic training education.
- Expand job opportunities in health care settings within Connecticut that will permit ATs to serve a larger population, not just those defined as an athlete and becoming a viable part of the physical medicine and rehabilitation team.
- Be able to serve the general population of physically active individuals in areas where ATs have a professional area of expertise

We believe the preferred updates clarify the current athletic training scope of practice to reflect the training and examination requirements, and will lead to increased health care for the residents of Connecticut. The new statutory language will encompass all skill sets ATs can perform, including services not only to the “athletic” population, but also to other otherwise healthy individuals. According to Sam Gold, Service Line Strategy Advisor and Senior Analyst for the Advisory Board Company (www.advisoryboard.com)¹ in a presentation titled, *Expand Orthopedic Presence with Sports Medicine*, it was recommended that healthcare should expand the traditional roster of providers to enable a program of conservative care. Increasing a provider’s scope of coverage will increase patient access to healthcare professionals. Healthypeople.gov² states the current US health care system saw an influx of patients in 2014 because many became insured for the first time. Healthypeople.gov outlines issues including.²

- Increasing and measuring access to appropriate, safe, and effective care, including clinical preventive services.
- Decreasing disparities and measuring access to care for diverse populations, including racial and ethnic minorities and older adults.
- Increasing and measuring access to safe long-term and palliative care services and access to quality emergency care.

The Athletic Trainer as a Qualified Healthcare Provider

ATs are educated in the areas of prevention, wellness, and treatment of injuries and illnesses. Throughout their education, ATs receive experiential learning to “provide efficient and effective health care and educational services.”³ The AT profession has evolved from caring only for the athletic population, to the care of a larger percentage of the population.^{4,5} As demonstrated by National Athletic Trainers’ Association (NATA) member statistics, ATs are employed in a variety of venues including: clinic, industry, and hospitals.⁶ March 2016 statistics from the NATA show that 20.89% of NATA members work in emerging AT settings including but not limited to: business/sales/marketing, occupational health, fitness and performance, military and unemployed.⁷ This information does not include students. Furthermore, clarification of the athletic training scope of practice will increase the access and timeliness to qualified and appropriate healthcare providers to the public.

References:

1. Gold, S. Expanding Orthopedic Presence with in Sports Medicine – Blog. www.advisoryboard.com *post available upon request*
2. Healthypeople.gov
3. Laurent TG, Bradney DA. Leadership behaviors of athletic training leaders compared with leader in other fields. *J Athl Train.*2007;42(1):120-125.
4. Delforge GD, Behneke RS. The history and evolution of athletic training education in the United States. *J Athl Train.*1999;34(1):53-61.

5. Lockard CB. Athletic trainers: Providing healthcare for athletes of all kinds. *Occupational Outlook Quarterly*.2005;38-41.
6. National Athletic Trainers' Association. Job settings. <http://www.nata.org/athletic-training/job-settings>. Retrieved June 11, 2014.
7. National Athletic Trainers' Association – <https://www.nata.org/sites/default/files/ethnicity-demographics.pdf>

CH 4: Summary of federal and state laws

This chapter outlines the federal and state laws that govern athletic trainers in the United States of America.

Licensure Laws for ATs in the U.S.

Licensure laws vary across the nation with the scope of practice, related to the date of the enactment of the practice act. Certain states acknowledge the need for athletic trainers to be able to assess and treat illnesses that are associated with athletic participation. Some of these states include Alaska, Arkansas, Michigan and Wisconsin.

Outside of our region, certain states permit athletic trainers to provide care for a non-athletic population. Michigan allows for care of individuals within the athletic trainer's scope of practice providing the care is under the supervision of a physician. Arizona, Mississippi, Ohio, and Georgia allow athletic trainers to care for athletic injuries that occur outside of sport participation when the injuries occur in an activity that requires physical strength, agility, flexibility, speed, stamina or range of motion. In these states the care must be under the supervision of a health care provider.

Certain states such as Washington and Virginia specifically permit athletic trainers to serve at the workplace. Athletic trainers are permitted to provide conditioning, assessment, treatment, rehabilitation and reconditioning activities for employees. In both cases, the care must be under the direction of a physician.

Northeastern States

In the northeast region, state licensure laws vary by the year the law was enacted. Maine, Massachusetts, New Hampshire, New Jersey and Rhode Island scopes of practice remain limited to athletes. Vermont permits athletic trainers to care for orthopedic injuries in non-athletes with a referral from a health care provider. The patients must be free from an underlying pathology that would affect treatment. Like Vermont, New York allows athletic trainers to care for athletic or orthopedic injuries in a health care organization to non-athletes when under the direction of a physician. Pennsylvania allows athletic trainers to provide 'athletic training services' to any **physically active person** who is under the care of a physician, dentist or podiatrist.

Additionally, states are similarly attempting to align their state practice acts with professional educational competencies. During the 2015-16 session, New York introduced a bill to permit the care of 'active' individuals, such as athletes, performing artists and public safety officials. A proposed bill in Massachusetts removed the limitation of athletic trainers only serving athletes. The athletic training Board of New Hampshire recently confirmed the ability of athletic trainers licensed in that state to use joint mobilization techniques and dry needling.

Please see Chapter 10 for more detailed information.

References:

All information cited in this section was acquired from all the state practice acts and athletic training state association websites in addition to the following websites:

Board of Certification Inc. State Regulation Section. <http://www.bocatc.org/state-regulation/map>

National Athletic Trainers' Association. <http://www.nata.org/state-practice-acts>

CH 5: Current State Statute

This chapter outlines the current Athletic training practice act in the State of Connecticut

Current Statute

Connecticut General Statutes

Chapter 375a

Athletic training

Sec. 20-65f. Definitions. As used in this chapter:

- (1) "Athletic training" means the application or provision, with the consent and under the direction of a health care provider, of (A) principles, methods and procedures of evaluation, prevention, treatment and rehabilitation of athletic injuries sustained by athletes, (B) appropriate preventative and supportive devices, temporary splinting and bracing, physical modalities of heat, cold, light massage, water, electric stimulation, sound, exercise and exercise equipment, (C) the organization and administration of athletic training programs, and (D) education and counseling to athletes, coaches, medical personnel and athletic communities in the area of the prevention and care of athletic injuries. For purposes of this subdivision, "health care provider" means a person licensed to practice medicine or surgery under chapter 370 of the general statutes, chiropractic under chapter 372 of the general statutes, podiatry under chapter 375 of the general statutes or naturopathy under chapter 373 of the general statutes;
- (2) "Athletic injury" means any injury sustained by an athlete as a result of such athlete's participation in exercises, sports, games or recreation requiring strength, agility, flexibility, range of motion, speed or stamina, or any comparable injury that prevents such athlete from participating in any such activities;
- (3) "Athlete" means any person who is a member of any professional, amateur, school or other sports team, or is a regular participant in sports or recreational activities, including, but not limited to, training and practice activities, that require strength, agility, flexibility, range of motion, speed or stamina. For purposes of this subdivision, "regular" means not less than three times per week;
- (4) "Standing orders" means written protocols, recommendations and guidelines for treatment and care, furnished and signed by a health care provider specified under subdivision (1) of this section, to be followed in the practice of athletic training that may include, but not be limited to, (A) appropriate treatments for specific athletic injuries, (B) athletic injuries or other conditions requiring immediate referral to a licensed health care provider, and (C) appropriate conditions for the immediate referral to a licensed health care provider of injured athletes of a specified age or age group.
- (5) "Commissioner" means the Commissioner of Public Health.

Sec. 20-65g. License required for practice and use of title. (a) Except as provided in section 20-65i, no person may practice athletic training unless such person is licensed pursuant to section 20-65j.

(b) No person may use the title "licensed Athletic Trainer" or make use of any title, words, letters or abbreviations indicating or implying that such person is licensed to practice athletic training unless such person is licensed pursuant to section 20-65k.

Sec. 20-65h. Referral to licensed health care provider. (a) Each person who practices athletic training under standing orders shall make a written or oral referral to a licensed health care provider of any athlete who has an

athletic injury whose symptoms have not improved for a period of four days from the day of onset, or who has any physical or medical condition that would constitute a medical contraindication for athletic training or that may require evaluation or treatment beyond the scope of athletic training. The injuries or conditions requiring a referral under this subsection shall include, but not be limited to, suspected medical emergencies or illnesses, physical or mental illness and significant tissue or neurological pathologies.

(b) Each person who practices athletic training, but not under standing orders, may perform initial evaluation and temporary splinting and bracing of any athlete with an athletic injury and shall, without delay, make a written or oral referral of such athlete to a licensed health care provider. The limitations on the practice of athletic training set forth in this subsection shall not apply in the case of any athlete that is referred to such person by a licensed health care provider, provided such practice shall be limited to the scope of such referral.

Sec. 20-65i. Exceptions to licensing requirement. A license to practice athletic training shall not be required of: (1) A practitioner who is licensed or certified by a state agency and is performing services within the scope of practice for which such person is licensed or certified; (2) a student intern or trainee pursuing a course of study in athletic training, provided the activities of such student intern or trainee are performed under the supervision of a person licensed to practice athletic training and the student intern or trainee is given the title of "Athletic Trainer intern", or similar designation; (3) a person employed or volunteering as a coach of amateur sports who provides first aid for athletic injuries to athletes being coached by such person; (4) a person who furnishes assistance in an emergency; or (5) a person who acts as an Athletic Trainer in this state for less than thirty days per calendar year and who is licensed as an Athletic Trainer by another state or is certified by the Board of Certification, Inc., or its successor organization.

Sec. 20-65j. Qualifications for licensure. Licensure by endorsement. a) Except as provided in subsections (b) and (c) of this section, an applicant for a license to practice athletic training shall have:

(1) A baccalaureate degree from a regionally accredited institution of higher education, or from an institution of higher learning located outside of the United States that is legally chartered to grant postsecondary degrees in the country in which such institution is located; and (2) current certification as an Athletic Trainer by the Board of Certification, Inc., or its successor organization.

(b) An applicant for licensure to practice athletic training by endorsement shall present evidence satisfactory to the commissioner (1) of licensure or certification as an Athletic Trainer, or as a person entitled to perform similar services under a different designation, in another state having requirements for practicing in such capacity that are substantially similar to or higher than the requirements in force in this state, and (2) that there is no disciplinary action or unresolved complaint pending against such applicant.

(c) Prior to April 30, 2007, the commissioner shall grant a license as an Athletic Trainer to any applicant who presents evidence satisfactory to the commissioner of (1) the continuous providing of services as an Athletic Trainer since October 1, 1979, or (2) certification as an Athletic Trainer by the Board of Certification, Inc. or its successor organization.

Sec. 20-65k. License to practice athletic training. Fees. (a) The commissioner shall grant a license to practice athletic training to an applicant who presents evidence satisfactory to the commissioner of having met the requirements of section 20-65j. An application for such license shall be made on a form required by the commissioner. The fee for an initial license under this section shall be one hundred and ninety dollars.

(b) A license to practice athletic training may be renewed in accordance with the provisions of section 19a- 88, as amended, provided any licensee applying for license renewal shall maintain certification as an Athletic Trainer by the Board of Certification, Inc. , or its successor organization. The fee for such renewal shall be two hundred dollars.

(c) The department may, upon receipt of an application for athletic training licensure, accompanied by the licensure application fee of one hundred ninety dollars, issue a temporary permit to a person who has met the requirements of subsection (a) of section 20-65j, except that the applicant has not yet sat for or received the results of the athletic training certification examination administered by the Board of Certification, Inc., or its successor organization. Such temporary permit shall authorize the permittee to practice athletic training under the supervision of a person licensed pursuant to subsection (a) of this section. Such practice

shall be limited to those settings where the licensed supervisor is physically present on the premises and is immediately available to render assistance and supervision, as needed, to the permittee. Such temporary permit shall be valid for a period not to exceed one hundred twenty calendar days after the date of completion of the required course of study in athletic training and shall not be renewable. Such permit shall become void and shall not be reissued in the event that the permittee fails to pass the athletic training certification examination. No permit shall be issued to any person who has previously failed the athletic training certification examination or who is the subject of an unresolved complaint or pending professional disciplinary action. Violation of the restrictions on practice set forth in this section may constitute a basis for denial of licensure as an Athletic Trainer.

Sec. 20-65l. Regulations. Administration within available appropriations. The commissioner may adopt regulations, in accordance with chapter 54 of the general statutes, to carry out the provisions of this chapter. The commissioner shall administer the provisions of this chapter within available appropriations.

Sec. 20-65m. Disciplinary Action. Grounds. The Department of Public Health may take any action set forth in section 19a-17 of the general statutes if a person issued a license pursuant to section 20-65k of the general statutes, as amended by this act, fails to conform to the accepted standards of the Athletic Trainer profession, including, but not limited to, the following: Conviction of a felony; fraud or deceit in the practice of athletic training; illegal, negligent, incompetent or wrongful conduct in professional activities; emotional disorder or mental illness; physical illness including, but not limited to, deterioration through the aging process; abuse or excessive use of drugs, including alcohol, narcotics or chemicals; wilful falsification of entries into any patient record pertaining to athletic training; misrepresentation or concealment of a material fact in the obtaining or reinstatement of an Athletic Trainer license; or violation of any provisions of chapter 375a of the general statutes, or any regulation adopted under said chapter 375a. The Commissioner of Public Health may order a license holder to submit to a reasonable physical or mental examination if the license holder's physical or mental capacity to practice safely is the subject of an investigation. The commissioner may petition the superior court for the judicial district of Hartford to enforce such order or any action taken pursuant to section 19a-17 of the general statutes. Notice of any contemplated action under said section 19a-17, the cause of the action and the date of a hearing on the action shall be given and an opportunity for hearing afforded in accordance with the provisions of chapter 54 of the general statutes.

Proposed Changes

Sec. 20-65f. Definitions. As used in this chapter:

(1)"Athletic training" means the application or provision, (A) with the consent and under the direction of a health care provider, of (A) principles, methods and procedures of ATHLETIC INJURY CARE TO INCLUDE (I) CLINICAL EVALUATION AND ASSESSMENT (II) MANAGEMENT AND EMERGENCY CARE, TREATMENT, DISPOSITION AND REHABILITATION (III) THE APPLICATION OF PHYSICAL AGENTS TO INCLUDE HEAT, COLD, LIGHT, ELECTRIC STIMULATION, MANUAL THERAPY TECHNIQUES, AQUATIC THERAPY, SOUND, THERAPEUTIC EXERCISE AND OTHER AGENTS AS PRESCRIBED BY A HEALTH CARE PROVIDER ~~prevention, treatment and rehabilitation of athletic injuries sustained by athletes, (B) appropriate preventative and supportive devices, temporary splinting and bracing, physical modalities of heat, cold, light massage, water, electric stimulation, sound, exercise and exercise equipment,~~ (B) ILLNESS RECOGNITION (I) THAT IS ACCOMPANIED BY REFERRAL TO AND (II) MANAGED AT THE DIRECTION OF A HEALTH CARE PROVIDER (C) THE APPLICATION OR PROVISION OF APPROPRIATE PREVENTATIVE AND SUPPORTIVE DEVICES (D) the organization and administration of athletic training programs, (E) education and counseling to athletes, coaches, medical personnel and THE COMMUNITY in the area of the prevention and care of athletic injuries. AND (F) INJURY PREVENTION AND WELLNESS CARE SERVICES THAT ARE DEVELOPED TO ASYMPTOMATIC INDIVIDUALS

For purposes of this subdivision,

"health care provider" means a person licensed to practice medicine or surgery under chapter 370 of the general statutes, chiropractic under chapter 372 of the general statutes, podiatry under chapter 375 of the general statutes or naturopathy under chapter 373 of the general statutes;

(2) "Athletic injury" means any MUSCULOSKELETAL injury sustained AS A result of participation in exercise, sports, games, RECREATIONAL ACTIVITIES OR DUE TO OTHER ACTIVITIES THAT REQUIRE COMPARABLE LEVELS OF STRENGTH, FLEXIBILITY AND AGILITY OCCURING TO A PHYSICALLY ACTIVE INDIVIDUAL;

~~(3) "Athlete" "PHYSICALLY ACTIVE INDIVIDUAL" means any person who is a member of any professional, amateur, school or other sports team, or is a regular participant in sports OR OTHER COMPARABLE activities, ASSOCIATED WITH PARTICIPATION IN EXERCISE, EMPLOYMENT OR RECREATION that require strength, agility, flexibility, range of motion, speed or stamina. For purposes of this subdivision, "regular" means not less than three times per week;~~

(3) ILLNESS MEANS ANY DISEASE, DISORDER SICKNESS OF AFFLICTION (A) THAT ARISES FROM OR IS A MANIFESTATION OF AN ATHLETE'S PARTICIPATION IN, OR POST-RECOVERY IN EXERCISE, SPORTS GAMES OR RECREATIONAL ACTIVITIES, OR (B) OTHER CONDITIONS THAT MAY REQUIRE AN IMMEDIATE INTERVENTION BY THE ATHLETIC TRAINER DURING, PRIOR TO OR FOLLOWING AN ATHLETE'S PARTICIPATION IN SUCH ACTIVITIES, UNDER THE CONSENT AND DIRECTION OF A HEALTH CARE PROVIDER, SUCH CONDITIONS MAY INCLUDE, BUT ARE NOT LIMITED TO EMERGENT SITUATIONS RELATED TO CARDIORESPIRATORY, THERMOREGULATION, MUSCULOSKELETAL, NEUROVASCULAR, AND ENDOCRINE SYSTEMS, ILLNESS DOES NOT INCLUDE ANY CONDITION BEYOND THE SCOPE OF EDUCATION OF AN ATHLETIC TRAINER.

(4) "WELLNESS CARE" MEANS SERVICES RELATED TO RISK MANAGEMENT AND INJURY PREVENTION, INCLUDING BIOMECHANICS, CONDITIONING, FLEXIBILITY, NUTRITION, STRENGTH TRAINING AND FITNESS.

(5) "WITH THE CONSENT AND UNDER THE DIRECTION OF A HEALTH CARE PROVIDER" MEANS (A) A WRITTEN PRESCRIPTION FROM A HEALTH CARE PROVIDER SPECIFYING A PLAN OF CARE FOR A MUSCULOSKELETAL INJURY OR ILLNESS OF AN INDIVIDUAL (B) THE ISSUANCE OF WRITTEN STANDING ORDERS THAT ARE FOLLOWED IN THE PRACTICE OF ATHLETIC TRAINING IN THE CARE OF ATHLETES PARTICIPATING IN SPORTS AND GAMES WHILE UNDER THE OVERSIGHT AND DIRECTION OF A HEALTH CARE PROVIDER.

"ATHLETE" means any person who is a member of any professional, amateur, school or other sporting program, or is a regular participant in athletic activity

(4) "WRITTEN Standing Orders" means ~~written~~ protocols, recommendations OR guidelines for treatment and care OF AN ATHLETE'S PARTICIPATION IN PROFESSIONAL, AMATEUR, OR SCHOOL SPORTS OR RECREATIONAL ACTIVITIES THAT ARE (A) furnished and signed by a health care provider specified under subdivision (1) of this section, (B) followed BY AN ATHLETIC TRAINER WHILE UNDER THE CONSENT AND DIRECTION OF A HEALTH CARE PROVIDER, (C) ANNUALLY REVIEWED AND RENEWED BY THE HEALTH CARE PROVIDER AND ATHLETIC TRAINER TO ENSURE QUALITY PATIENT CARE AND (D) PROVIDE FOR AVAILABILITY OF COMMUNICATION BETWEEN THE HEALTH CARE PROVIDER. WRITTEN STANDING ORDERS SHALL INCLUDE BUT ARE NOT LIMITED TO, (i) DELINEATION OR A PREDETERMINED PLAN FOR EMERGENCY SITUATIONS, (ii) APPROPRIATE TREATMENTS FOR SPECIFIC INJURIES OR OTHER MEDICAL CONDITIONS, (iii) TREATMENT AND MANAGEMENT OF CONCUSSIONS, AND (iv) CONDITIONS NECESSITATING THE IMMEDIATE REFERRAL TO A HEALTH

CARE PROVIDER OF AN ATHLETE OR (v) ANY CONDITION THAT IS BEYOND THE ATHLETIC TRAINER'S SCOPE OF PRACTICE. ~~in the practice of athletic training that may include, but not be limited to, (A) appropriate treatments for specific athletic injuries, (B) athletic injuries or other conditions requiring immediate referral to a licensed health care provider, and (C) appropriate conditions for the immediate referral to a licensed health care provider of injured athletes of a specified age or age group.~~

(5) "Commissioner" means the Commissioner of Public Health.

Sec. 20-65g. License Required for practice and use of title. (a) Except as provided in section 20-65i, no person may practice athletic training unless such person is licensed pursuant to section 20-65j. (b) No person may use the title "licensed athletic trainer" or make use of any title, words, letters or abbreviations indicating or implying that such person is licensed to practice athletic training unless such person is licensed pursuant to section 20-65k.

Sec. 20-65h. Referral to licensed health care provider. (a) Each person who practices athletic training under standing orders shall make a written or oral referral to a licensed health care provider of any athlete who has an injury or illness whose symptoms have not improved for a period of four days from the day of onset, or who has any physical or medical condition that would constitute a medical contraindication for athletic training or that may require evaluation or treatment beyond the scope of athletic training. ~~The injuries or conditions requiring a referral under this subsection shall include, but not be limited to, suspected medical emergencies or illnesses, physical or mental illness and significant tissue or neurological pathologies.~~

(b) Each person who practices athletic training, but not under standing orders, **SHALL BE LIMITED TO PROVIDING IMMEDIATE INJURY MANAGEMENT AND EMERGENCY CARE** ~~may perform initial evaluation and temporary splinting and bracing~~ of any athlete **SUFFERING AN ACUTE** injury or illness ~~and shall, without delay, make a written or oral referral of such athlete to a licensed health care provider.~~ The limitations on the practice of athletic training set forth in this subsection shall not apply in the case of any athlete that is referred to such person by a licensed health care provider, provided such practice shall be limited to the scope of such referral.

Sec. 20-65i. Exceptions to licensing requirement. A license to practice athletic training shall not be required of: (1) A practitioner who is licensed or certified by a state agency and is performing services within the scope of practice for which such person is licensed or certified; (2) a student intern or trainee pursuing a course of study in athletic training, provided the activities of such student intern or trainee are performed under the supervision of a person licensed to practice athletic training and the student intern or trainee is given the title of "athletic trainer intern", or similar designation; (3) a person employed or volunteering as a coach of amateur sports who provides first aid for athletic injuries to athletes being coached by such person; (4) a person who furnishes assistance in an emergency; or (5) a person who acts as an athletic trainer in this state for less than thirty days per calendar year and who is licensed as an athletic trainer by another state or is certified by the Board of Certification, Inc., or its successor organization.

Sec. 20-65j. Qualifications for licensure. Licensure by endorsement. a) Except as provided in subsections (b) and (c) of this section, an applicant for a license to practice athletic training shall have: (1) A baccalaureate **OR A GRADUATE** degree from a regionally accredited institution of higher education, or from an institution of higher learning located outside of the United States that is legally chartered to grant postsecondary degrees in the country in which such institution is located; and (2) current certification as an athletic trainer by the Board of Certification, Inc. , or its successor organization.

(b) An applicant for licensure to practice athletic training by endorsement shall present evidence satisfactory to the commissioner (1) of licensure or certification as an athletic trainer, or as a person entitled to perform similar services under a different designation, in another state having requirements for practicing in such capacity that are substantially similar to or higher than the requirements in force in this state, and (2) that there is no disciplinary action or unresolved complaint pending against such applicant.

(c) Prior to April 30, 2007, the commissioner shall grant a license as an athletic trainer to any applicant who presents evidence satisfactory to the commissioner of (1) the continuous providing of services as an athletic trainer since October 1, 1979, or (2) certification as an athletic trainer by the Board of Certification, Inc. , or its successor organization.

Sec. 20-65k. License to practice athletic training. Fees. (a) The commissioner shall grant a license to practice athletic training to an applicant who presents evidence satisfactory to the commissioner of having met the requirements of section 20-65j. An application for such license shall be made on a form required by the commissioner. The fee for an initial license under this section shall be one hundred and ninety dollars.

(b) A license to practice athletic training may be renewed in accordance with the provisions of section 19a-88, as amended, provided any licensee applying for license renewal shall maintain certification as an athletic trainer by the Board of Certification, Inc. , or its successor organization. The fee for such renewal shall be two hundred dollars.

(c) The department may, upon receipt of an application for athletic training licensure, accompanied by the licensure application fee of one hundred ninety dollars, issue a temporary permit to a person who has met the requirements of subsection (a) of section 20-65j, except that the applicant has not yet sat for or received the results of the athletic training certification examination administered by the Board of Certification, Inc., or its successor organization. Such temporary permit shall authorize the permittee to practice athletic training under the supervision of a person licensed pursuant to subsection (a) of this section. Such practice shall be limited to those settings where the licensed supervisor is physically present on the premises and is immediately available to render assistance and supervision, as needed, to the permittee. Such temporary permit shall be valid for a period not to exceed one hundred twenty calendar days after the date of completion of the required course of study in athletic training and shall not be renewable. Such permit shall become void and shall not be reissued in the event that the permittee fails to pass the athletic training certification examination. No permit shall be issued to any person who has previously failed the athletic training certification examination or who is the subject of an unresolved complaint or pending professional disciplinary action. Violation of the restrictions on practice set forth in this section may constitute a basis for denial of licensure as an athletic trainer.

Sec. 20-65l. Regulations. Administration within available appropriations. The commissioner may adopt regulations, in accordance with chapter 54 of the general statutes, to carry out the provisions of this chapter. The commissioner shall administer the provisions of this chapter within available appropriations.

Sec. 20-65m. Disciplinary Action. Grounds. The Department of Public Health may take any action set forth in section 19a-17 of the general statutes if a person issued a license pursuant to section 20-65k of the general statutes, as amended by this act, fails to conform to the accepted standards of the athletic trainer profession, including, but not limited to, the following: Conviction of a felony; fraud or deceit in the practice of athletic training; illegal, negligent, incompetent or wrongful conduct in professional activities; emotional disorder or mental illness; physical illness including, but not limited to, deterioration through the aging process; abuse or excessive use of drugs, including alcohol, narcotics or chemicals; wilful falsification of entries into any patient record pertaining to athletic training; misrepresentation or concealment of a material fact in the obtaining or reinstatement of an athletic trainer license; or violation of any provisions of chapter 375a of the general statutes, or any regulation adopted under said chapter

375a. The Commissioner of Public Health may order a license holder to submit to a reasonable physical or mental examination if the license holder's physical or mental capacity to practice safely is the subject of an investigation. The commissioner may petition the superior court for the judicial district of Hartford to enforce such order or any action taken pursuant to section 19a-17 of the general statutes. Notice of any contemplated action under said section 19a-17, the cause of the action and the date of a hearing on the action shall be given and an opportunity for hearing afforded in accordance with the provisions of chapter 54 of the general statutes.

Summary of Proposed Changes

Major Change 1: Removal of the term athlete and insertion of the word physically active individual

Section 2 defines an “athletic injury” and uses the term “physically active individual” instead of “athlete” - any injury an athletic trainer will be dealing with is still athletic in nature or comparable to an athletic injury.

Concern has been raised whether an AT can treat a patient that has underlying medical conditions. Based on the proposed language an AT would be working with individuals who have been determined “otherwise healthy by a health care provider.”

Additional concern was raised in the 2016 legislative session regarding what a “physically active individual” is. We have therefore, proposed a definition of physically active individual to better determine who these people are and to help address concerns raised.

We have proposed physically active individual in lieu of athlete because:

1. We are the only healthcare profession that does not use the term patient or individual.
2. An athlete is interpreted as someone in a uniform that plays for a team - companies and municipalities in the state who have wanted to hire ATs did not because they were worried about liability

Major Change 2: Removal of a time requirement (3x/wk) in participation of sports and activities, pertaining to those an AT can treat

The time constraint of three times per week in participation of sport or exercise may preclude us from being on the sideline at some youth sporting events. Furthermore, the CT state statute makes CT the only state in the nation with a time constraint in the state statute

Major Change 3: Stricter guidelines as it pertains to standing orders and the ATs direction from a physician

Protecting the public is a #1 priority.

Section 5 clarifies the direction by a health care provider through written prescription or via standing orders. We are NOT primary care providers, nor are we trying to be. ATs work with the “oversight and direction” of a health care provider and thus we do not have and are not asking for direct access.

In order to address concerns raised in the 2016 legislative session standing orders pertains to only athletes (in the most traditional sense) and all other “physically active individuals” require a referral immediately.

Section 6 states that standing orders have to be reviewed at least annually and will have to reflect best practices - we have outlined what needs to be in the standing orders at minimum and we ensure that with in the standing orders it is clear what conditions need immediate referral.

Sec. 20-65h. Addresses major concerns by other professions and also ensures public safety. Anyone seen by an AT regardless of setting who has not improved in 4 days of injury requires immediate referral and those who have medical contraindications outside of an ATs education require a referral.

Major Change 4: Inclusion of the ability of an AT to provide immediate and emergent care in an acute situation without standing orders (i.e. a road race)

ATs deal with critical situations often and in the case where an AT may be working without standing orders an AT can provide immediate and acute care to help individuals until emergency medical services and transport arrive beyond that of the ATs scope.

We have safe guards in place to protect the public and that address concerns of some healthcare groups. ATs work under the direction of a physician and collaborate daily with all types of healthcare providers. ATs work in a variety of settings including: the military, physicians’ offices, rehabilitation clinics, hospitals, municipalities, and within industry.

An AT does not replace any other health care provider, rather brings their unique skill set and collaborative nature encompassing a comprehensive wellness team.

CH 6: Education & Training

This chapter outlines all current education, training, examination requirements and relevant certification requirements applicable to the profession of Athletic training

Introduction

Athletic trainers must earn at least a Bachelor's degree from an athletic training program accredited by the Commission on Accreditation of Athletic Training Education (CAATE), the national accrediting body recognized by CHEA. The NATA recently reported that “Athletic training is an academic major or graduate equivalent major ... The current minimum entry point into the profession of athletic training is the baccalaureate level, however it was recently decided by the AT Strategic Alliance that the minimum professional degree level will be a master's, a change to be implemented within the next several years.” (www.nata.org) Furthermore, it is noted that more than 70 percent of athletic trainers hold at least a master’s degree.

The **following programs in Connecticut are currently accredited by CAATE**: Central Connecticut State University, Sacred Heart University, Southern Connecticut State University, Quinnipiac University and the University of Connecticut. All five universities offer the athletic training program at the undergraduate level. All graduates must pass a nationally recognized certification examination sponsored by the Board of Certification Inc. The BOC examination is the primary requirement for state licensure across the United States, including Connecticut. The BOC is accredited by the National Commission for Certifying Agencies (NCCA). The Institute for Credentialing Excellence, which establishes the NCCA standards, also accredits certifying/licensure examinations for the American Academy of Nurse Practitioners Certification Program, American Board for Occupational Health Nurses, and the American Physical Therapy Association.

Once certified, athletic trainers are required to earn a minimum of 50 continuing education credit units every two years. At least 10 of the continuing education units must come from specifically designed programs that focus on evidenced-based practice. The continuing education requirement for athletic trainers exceeds all of the most extensive among the rehabilitative health professions. (See Table)

Profession	Reporting Agency	Required Continuing Education hours	Length of Reporting Period	Average Per Year
Athletic training	BOC	50	2 years	25
Massage Therapy	State	24	4 years	6
Occupational Therapy	State	24	2 years	12
Physical Therapy	State	20	1 year	20
Respiratory Care	State	6	1 year	6
APRN	State	50	2 years	25
RN	State	0	0	0

Prior to sitting for the BOC certification examination, all examinees must successfully complete an accredited entry-level Athletic Training Education Program at the masters or baccalaureate level. Entry-level accreditation is maintained by the Commission on Accreditation of Athletic Training Education (CAATE) which establishes necessary standards. CAATE is sponsored by The American Academy of Family Physicians (AAFP), The American Academy of Pediatrics (AAP), the American Orthopedic Society for Sports Medicine (AOSSM) and the National Athletic Trainers' Association (NATA).

Educationally, all accredited programs align their academic curriculum with the professional competencies established by the National Athletic Trainers' Association Executive Committee on Education (NATA-ECE). All CAATE accredited programs must ensure that they teach students and focus on **all of the competencies** set forth by the NATA-ECE. The appendix in this chapter outlines all of those competencies. A list of these competencies can be found in the Appendix.

The NATA-ECE establishes the minimum requirements or *professional competencies* for a student's professional education and is made of a panel of experts for each of eight clinical practice content areas. These clinical practice content areas include:

- Evidenced- Based Practice
- Prevention and Health Promotion
- Clinical Examination and Assessment
- Acute Care of Injury and Illness
- Therapeutic Interventions
- Psychosocial Strategies and Referral
- Healthcare Administration
- Professional Development and Responsibility

Evidenced-Based Practice

The content area of evidenced-based practice incorporates 14 distinct competencies. The use of evidenced-based practice is currently emphasized throughout the health care system and it is designed to improve patient outcomes. This emphasis is consistent with almost all allied health and medical programs, making athletic training consistent with all similar professions.

Prevention and Health Promotion

ATs have historically been educated to prevent the occurrence or reoccurrence of injury or illness in clients and patients. This piece of the profession makes the athletic trainer a valuable part in preventing workplace injury. Forty-nine (49) specific competencies in the athletic training curriculum are focused on preventing injury and illness, many of which are not included as part of any other allied health profession educational program.

No allied health professional can be considered well-prepared to be involved in wellness education or training without a sound understanding of nutrition. ATs are required to demonstrate proficiency in nutrition and its application in maintaining a healthy lifestyle (Professional Competencies [PC]: PHP-32-47). ATs are expected to educate clients and patients on healthy eating habits across the life spectrum and in different levels of health and recognize the need for referral when education and intervention by professions who are experts in nutrition is warranted. Additionally, ATs are educated on identifying and managing through referrals eating disorders (PC: PHP-46, 47) and issues related to the use/abuse of performance enhancing and recreational drugs (PC: PHP – 48, 49). Four of the five accredited institutions in Connecticut require at least one nutrition course with three of the institutions requiring at least 6 credits in nutrition, including applied nutrition.

In addition, institutions offering athletic training education must instruct their students in the promotion of fitness. The entry-level athletic trainer is expected to perform fitness testing in the areas of body composition, flexibility, muscular strength, power, speed, agility, endurance, posture and ergonomics (PC: PHP-19, 26). The entry-level athletic trainer is educated to assess an individual's readiness for physical activity and then design a fitness program that meets the individual needs of the client and/or patient (PC: PHP-27, PHP-28, PHP-29, PHP-30, PHP-31). The five institutions sponsoring athletic training meet these national requirements through the inclusion of several courses within each of their respective curriculums. All five universities require specific courses in exercise physiology, biomechanics *and* applied courses in strength and conditioning, more than any other allied health care profession.

Additionally, the entry-level athletic trainer receives professional instruction in areas of health and wellness across the lifespan. The entry-level athletic trainer is expected to know and implement techniques to prevent Occupational disease transmission (PC: PHP- 7), and environmental illnesses (PC: PHP-10-13, 18). The entry-level athletic trainer is capable of monitoring blood glucose levels and asthma symptoms to make decisions on participation status and referral (PC: PHP-15, 16). Moreover, the entry-level athletic trainer is expected to understand and observe for conditions that can lead to sudden death during physical activity such as cardiac issues, traumatic brain injury, hyponatremia, exertional sickling, and anaphylactic shock. (PC: PHP 17 a-1). All five Connecticut institutions require essential coursework in medical issues fulfilling this requirement.

As a result, the athletic trainer is well-educated in the area of injury and illness prevention and health promotion. With the need to prevent injury and illness in the workplace or in individuals, the ATs can be a vital component of an overall prevention program. ATs are well-suited to help reduce health care costs and time lost due to injury.

Clinical Examination and Assessment

ATs are educated in the assessment of injuries and chronic conditions. Current educational requirements necessitate the entry-level athletic trainer to identify risk factors that could affect physical activity across the lifespan (PC: CE-3-5). In addition, the athletic trainer is educated on identifying disabilities that may affect the patient/client's ability to perform activity in her/his life (PC: CE-7, 9). As a result the athletic trainer is instructed to identify if a co-morbid condition exists which can adversely affect participation in physical activity and properly refer to another health care professional trained in treating these types of conditions.

The athletic trainer learns the importance of a medical history and the importance of identifying underlying conditions that may necessitate referral (PC: CE-13). As part of athletic training practice, education in acute and emergency care is part of the normal education process. Unlike similar allied health professions, ATs are taught to handle specific emergencies that can occur daily. ATs are taught to provide emergency medical care and can react accordingly.

In learning to perform a clinical examination, entry-level ATs are expected to be educated to perform functional assessments and selective tissue testing techniques. Beyond the orthopedic assessment techniques, the athletic trainer is expected to be proficient in the assessment of basic neurological, respiratory, cardiovascular/circulatory and abdominal injury and pathology (PC: CE 20f-20m). ATs are expected to interpret their findings and determine the nature of the pathology, then manage the conditions as necessary to include referral (PC: CE-21, 22).

Acute Care of Injuries and Illnesses

Athletic training clinical practice involves providing immediate care to individuals with injuries, illnesses and/or potentially life threatening conditions. Therefore, ATs must be proficient in evaluating, identifying and managing these conditions. This athletic training knowledge skill set is unique among similar allied health professions.

Athletic training education includes instruction on dealing with acute life-threatening conditions. The athletic trainer is able to assess vital signs, evaluate the findings and differentiate between normal and abnormal conditions (PC: AC-

6, 7). Based on her/his findings, the entry-level athletic trainer has been educated to manage these conditions with airway adjuncts, CPR/AED, oxygen administration, cervical stabilization devices, spine boards, immobilization devices, asthma inhalers, and lesser therapeutic agents including epi-pens and glucagon injectors. (AC- 8-35). The appendix of this chapter includes position statements published by the NATA regarding Diabetic Emergencies, Disordered Eating, Sport Related Concussion, and Psychosocial Interventions.

ATs are able to identify the signs, intervention techniques and return to participation criteria for various physical conditions. Moreover, ATs are considered some of the foremost experts on concussion and environmental conditions such as hyperthermia. ATs are well-trained to deal with most acute medical conditions.

Therapeutic Interventions

ATs are taught a variety of methods to rehabilitate injuries and conditions. They are instructed on the pathophysiology of the healing process among different age groups and its application to employing treatment techniques (PC: TI-1-5, 7, 8). ATs are educated on treating pain (TI-2, 3). Through knowledge of surgical techniques, education in the pathophysiology of healing and exercise techniques, and considerable clinical experience, ATs are well-educated in the rehabilitation of orthopedic injury (TI-6).

As part of this educational process, the athletic training students are instructed to be able to assess patients in order to identify specific indications and contraindications while devising therapeutic interventions and develop plans for return to participation (TI-11, 12). In conducting therapeutic interventions ATs are expected to be able to employ therapeutic modalities such as ultrasound, electric stimulation, laser, short-wave diathermy and a variety of manual techniques, to facilitate healing, pain reduction and improved mobility. (TI- 13, 14, 15). For more detailed information please see the 5th Edition Education Competencies as outlined by the Professional Education Committee (now the NATA-ECE) in the Appendix of this chapter.

Psychosocial Interventions

ATs are educated in dealing with the emotional needs of their patients and clients. Entry-level ATs are expected to be able to identify patients in need of mental healthcare, including but not limited to disordered eating and other psychological concerns and refer them to the appropriate health professional (PS-12, 13). This is enabled through learning of the various mental health care providers such as psychiatrists, counselors, and social workers (PS-11). Please see Appendix for position statements on Mental Health and Disordered Eating published by the National Athletic Trainers' Association.

The NATA has collaborated with various and multiple health care professions in the creation of position statements and consensus statements outline the best practices in injury and illness care. Some of these position statements can be found in the Appendix of this report and are also available by request.

CH 7: Existing Relationships

This chapter outlines the impact this scope of practice change will have on existing relationships in the healthcare realm

Athletic trainers (ATs) are health care professionals who collaborate with physicians and other health care providers to provide preventative services, emergency care, clinical diagnosis, therapeutic intervention and rehabilitation of injuries and medical conditions. Collaboration between healthcare providers should be the professional norm¹. Nationally, athletic trainers provide their services to patients and clients, to include athletes, military personnel, performing artists, laborers and other individuals suffering from conditions ***similar to athletic injuries***. Athletic trainers work under the direction of a healthcare provider as previously defined via standing orders primarily in the

athletic setting. In the case where an athletic trainer does not have standing orders those individuals would be referred to the proper medical provider by the athletic trainer after evaluation.

Athletic training education and preparation fall within these domains: Evidence Based Practice, Prevention and Health Promotion, Clinical Examination and Diagnosis, Acute Care of Injury and Illness, Therapeutic Interventions, Psychosocial Strategies and Referral, Healthcare Administration, and Professional Development and Responsibility.² Students wanting to become athletic trainers **must** earn a degree from an accredited athletic training curriculum. Accredited programs include formal instruction in areas such as injury/illness prevention, first aid and emergency care, assessment of injury/illness, human anatomy and physiology, therapeutic modalities, and nutrition. Classroom learning is enhanced through clinical education experiences. More than 70 percent of athletic trainers nationwide hold at least a master's degree.² Athletic trainers are required to pass a National Board of Certification² examination and obtain a license from the Department of Public Health to practice in the state of Connecticut. Athletic trainers are unique healthcare providers who collaborate with multiple health care professions in order to make up a comprehensive wellness team.

The Connecticut Athletic Trainers' Association has been meeting with and working with multiple groups in order to come to a consensus regarding the scope of practice update. The CATA has met with multiple organizations in an effort to educate those organizations on what athletic trainers do and how we can work together to benefit the citizens of Connecticut.

Finally, overlap among professions, especially in the healthcare arena is necessary and unavoidable. As healthcare evolves so do the healthcare professions. The National Council of State Board of Nursing developed a document concerning scope of practice and legislative considerations. On page 9 of this document it states: "no one profession actually owns a skill or activity in and of itself. One activity does not define a profession, but it is the entire scope of activities within the practice that makes any particular profession unique. Simply because a skill or activity is within one profession's skill set does not mean another profession cannot and should not include it in its own scope of practice."¹

Physicians

- **Athletic training relationship:** Athletic trainers currently work closely with physicians to provide medical care to their patients. Our current practice act requires that ATs work under standing orders *or* through a direct referral of a physician, which *will not change* with the scope of practice change. In fact, the suggested language reaffirms our commitment to the physician / athletic trainer relationship and strengthens standing order requirements. Physician direction, either through the standing orders process or through a direct referral, will provide guidance as to the care of athletes in need of athletic training care. *Patients from settings beyond the athletic realm will require a direct referral from a health provider, who has the expertise to rule out the co-morbidities that may require the individual to be referred to another rehabilitative practitioner.*
- In some cases, athletic trainers are expected to practice without physician direction as in the case of some sporting events for example: weekend jamborees, tournaments and/or road races. The suggested language permits athletic trainers to provide healthcare services including initial evaluation, often in emergent situations, providing acute injury/illness management, and **coordinate the necessary referrals** to ensure the primacy of the health care provider.

The AT role in physician offices has expanded, as certain physicians have noted the value of having an AT on staff. Hajart, et al.⁵ stated that athletic trainers provide value to a medical practice through their

skills in triage, taking patient histories, performing musculoskeletal evaluations, providing instructions on exercise prescription, rehabilitation, and general patient education. Research has indicated the positive impact ATs have in physician productivity by increasing the number of patients seen in orthopedic physician offices by 15-30%..^{5,6} In addition to role of athletic trainers in assisting with patient preparation, athletic trainers have been involved with brace fitting and casting. Other athletic trainers have assisted patient care through instruction of home exercise programs and patient education.

- **Revised scope effects:** Changes to the current scope of practice will require athletic trainers to **work more closely with physicians** in terms of standing orders by mandating a more consistent review of physician guidelines and patient care.

Physical Therapists

- **Athletic training relationship:** ATs are employed in a variety of settings working often alongside physical therapists in rehabilitation facilities. The scope of practice for athletic training and physical therapy do overlap to some extent, mostly in the domain of treatment and rehabilitation of musculoskeletal injuries. Often, physical therapy practices provide AT outreach services to many high schools in the state of CT: Companies include but are not limited to, Select Physical Therapy, Eastern Rehabilitation Network, Preneta Physical Therapy and more. The clinic assumes the hiring, benefits, liability etc. of employing the AT, who then provides the service to the contracted secondary school. Often, due to the limited number of ATs at the schools and the extensive amount of athletes, ATs refer their athletes to the clinic for rehabilitative services where they communicate with the physical therapists about the care needed for the athlete in regards to rehabilitation. ATs often work collaboratively with physical therapists following a patients' surgical intervention, providing additional care, beyond what is covered by insurance. Similar to the physical therapists scope of practice, ATs also evaluate the function of and use of therapeutic exercise and rehabilitation of injuries, establish rehabilitation programs, treatment planning, and modality use for the purpose of preventing, correcting, or alleviating an injury. Furthermore, ATs are required to pass a National Board of Certification² examination for athletic training and obtain a license from the Department of Public Health to practice in the state of Connecticut. Additionally, athletic trainers must complete continuing education units in order to maintain their certification.
- **NATA and APTA Settlement:** In the past the NATA and American Physical Therapy Association (APTA) have had what is perceived as a "turf battle" due to the overlapping domains in the professions. In 2009 the NATA and APTA reached a settlement regarding the practice of AT and its similarities and differences with physical therapy. Appendix A in this chapter highlights the APTA and NATA settlement.⁷
- It is our intention *to help develop the relationship between the two professions* in the state of Connecticut. As previously mentioned we often work closely and can contribute to the same healthcare team providing excellent care to individuals. We have met with the Connecticut Physical Therapy Association on numerous occasions and voiced our intent to work together to develop a bill and relationship amendable to both professions.
- **Revised scope effects:** Changes to the current scope of practice will allow athletic trainers to practice within the full realm of their domains, both on the field and in the clinic. These changes will help athletic trainers care for patients as part of a comprehensive team of healthcare providers improving

access and enhancing healthcare for Connecticut's citizens. The changes to the scope of practice will in turn increase referrals and generated revenue to Connecticut physical therapy companies.

Nurses

- **Athletic training relationship:** Athletic trainers work with nurses in public and private secondary schools, medical offices, hospitals, and industrial settings. Nurses and athletic trainers collaborate to identify actual or potential health problems, provide supportive and restorative care, and collaborate and implement the total health care regimen. We have met with the Connecticut Nurses Association (CNA) on multiple occasions and understand their concerns and demonstrated that ATs are trained to do the activities outlined in the proposed scope of practice.
- **Revised scope effects:** Changes to the scope of practice should enhance an already existing collaborative relationship in our shared settings and not interfere, inhibit, or alter the current relationship with nurses in the Connecticut.

Workplace Settings

- **Athletic training relationship:** Athletic trainers are officially prevented from serving in this setting. However athletic trainers are being hired to perform in this role, often through physical therapy clinics or companies specializing in preventing workplace injury. These AT professionals assume this role as a 'injury prevention specialist' and do not use their actual title in this employment setting or act as an athletic trainer. They are prevented from using most of their professional skills including providing emergency care to on-the-job injuries.
- **Revised scope effects:** Changes in the scope of practice act may enhance the delivery of preventive medicine to the companies within Connecticut. By expanding the scope of practice to patients and clients beyond the athlete. Both professions can collaborate to provide improved preventive care to Connecticut's industrial workforce. The injury prevention skills of athletic trainers and their educational background in exercise physiology, biomechanics, fitness assessment and weightlifting techniques should complement the skills of Occupational Therapists to decrease injury / illness rates in workers. Consequently, there should be reduced work-time loss, decreased workman's compensation insurance costs, and improved viability of business in the state. Additionally, athletic trainers would be able to use all of their skills to include providing onsite acute injury care in case of emergency until emergency medical services personnel arrive.

Chiropractors

- **Athletic training relationship:** Athletic trainers may be supervised by a chiropractor through the execution of agreed standing orders as per the current scope of practice and Connecticut state law.
- **Revised scope effects:** Changes to the scope of practice should not interfere, inhibit, or alter the current healthcare delivery system. In fact, the suggested language should facilitate the employment of athletic trainers by chiropractors, similar to employment of athletic trainers as physician extenders. An enhanced role of athletic trainers with the chiropractic profession should assist patient outcomes by combining the strengths of both professions.

Dietitian-Nutritionists

- **Athletic training relationship:** Athletic trainers are educated in basic nutrition concepts under the Prevention and Health Promotion domain.³ This provides the AT with a foundation to provide basic nutrition assessment, give recommendations regarding healthy eating habits, role in nutrition and healing, and identify potential pathologic behaviors/conditions. Athletic trainers often refer patients to nutritionists who are in need of more detailed nutritional assessment or counselling.
- **Revised scope effects:** Changes to the scope of practice should not interfere, inhibit, or alter the current healthcare delivery system.

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CH 8: Economic Impact of Athletic Trainers in the State of Connecticut

This chapter outlines the economic impact the change in the Athletic training scope of practice will have on the state of Connecticut. Outlined throughout is an introduction to Athletic training, Job Settings and Education of Athletic trainers, Connecticut Demographics based on Athletic trainers in the state and Return on Investment Data.

Introduction

The updates to the scope of practice can increase jobs and benefit the overall economy in the State of Connecticut.

The Athletic Trainer as a Healthcare Provider¹

The American Medical Association (AMA) granted athletic training its official recognition as an allied health profession in 1990. This recognition allowed the accreditation of entry-level academic programs. Following AMA recognition, the American Hospital Association established Uniform Billing codes for athletic training that became effective in 2000. Subsequently, in 2000, the AMA granted Current Procedural Terminology (CPT) codes for athletic

training evaluation and re-evaluation. As with all other health care professionals, ATs may apply for a National Provider Identifier (NPI) number as assigned by the Centers for Medicare & Medicaid Services.

The designations allocated by these professional organizations/governmental agencies acknowledge that ATs fulfill the standards necessary to deliver health care within the accepted scope of practice and educational preparation of the practitioner.

6th edition BOC Role Delineation Study¹ and 5th Edition Competency Highlights^{1, 2}

As outlined in previous chapters, candidates for certification as an entry-level athletic trainer must satisfy all the requirements of an Athletic Training Education Program (ATEP) that is accredited by the Commission on Accreditation of Athletic Training Education (CAATE) and hold an undergraduate degree or master's degree from a CAATE-accredited program. These candidates must then demonstrate their competency by passing a national certification examination that is administered by the Board of Certification (BOC).

Scope of Practice Change Request

The changes to the scope of practice will allow ATs to utilize all of their skills, allow ATs to practice in a variety of settings and ultimately increase jobs in Connecticut as well as benefit the overall economy.

ATs work in a multitude of settings nationally which include: ^{1,3}

- Public and private secondary schools
- Colleges and universities
- Professional sports teams
- Sports medicine clinics
- Health clubs
- Hospitals
- Emergency Departments
- Physicians' Offices
- Public Service Organizations such as the Military
- Corporate and Industrial health programs

Currently in the State of Connecticut

Athletic Training Education

There are 5 accredited Athletic Training Education Programs in the State of Connecticut and many of their students are pursuing their careers outside of the State in order to be able to utilize all of their skills. The 5 institutions include, Central Connecticut State University (CCSU), Quinnipiac University (QU), Sacred Heart University (SHU), Southern Connecticut State University (SCSU), and The University of Connecticut (UConn).

Statistics from CT Universities

UCONN:⁴ The University of Connecticut reported graduating 48 students with a Bachelor of Science in athletic training from 2008-2011. Of those 48 students only 1 student remained in the state to pursue a job: thus 98% of their graduating classes are leaving CT to find jobs. All of the other students travel far distances in order to fulfill Graduate Assistantship positions, intern positions and various other positions.

SCSU:⁵ Southern Connecticut State University reported graduating 28 students with a Bachelor of Science in athletic training in the past 3 years. Of those 28 students, 35% of them pursued other careers, graduate assistantships, full time jobs and other positions in athletic training outside of the state.

SHU:⁶ Sacred Heart University graduated 24 students from 2009-2011 and have also retained some data on where these students have gone and what professional paths they have taken. Of the 24 students; 58% of students pursue a graduate degree in another major, 30% of students leave the state of CT and 12% is unknown.

Current Athletic Training Jobs in Connecticut⁸

The data being reported below is borrowed from the National Athletic Trainers' Association (NATA) and the CATA. Numbers reported below are those ATs and AT students who are members of the NATA.

Most ATs working in the state of CT are in a traditional setting (for example, high school or college athletics). About 11% of CT's athletic training population is either unemployed or has not reported which setting they are employed. Approximately 4% of ATs are working in non-traditional or emerging settings which conclude that the change in the scope of practice can open more of these non-traditional settings; creating more jobs in the state, reducing health care costs and improving the overall economy.

Non Traditional Settings and the Return on Investment for CT Companies^{1,3,8,9,10,11,12,13,14}

Currently the scope of practice for ATs is being interpreted in a manner where ATs cannot practice to their fullest education and training. These settings include: Physical Therapy/Sports Medicine Clinics, Industrial and Corporate Settings, and Physician's Offices. Although there are some ATs in CT working in these settings there are so many more that would employ ATs with the change in the statute.

Physician Office Settings: ⁹

The ATs in this setting facilitate cost effective care and improve efficiency of the medical team.

- Decreased patient wait times and improved access to care
- ATs triage minor injuries allowing the physicians and nurses to attend to the more critical patients showing the ATs effectiveness as part of a comprehensive wellness team

Outpatient Rehabilitation ^{9,10}

According to the demographic data of CT ATs, almost 20% ⁸ of ATs work in a clinic setting and are not being utilized to their full capacity as they are restricted in the clinic. Connecticut ATs working in a clinic are often contracted out to local high schools and work in a traditional setting. When an AT is contracted for less than a 40-hour work week, the remainder of their time is spent in a clinic. In some situations, clinics utilize athletic trainers to work as aides and assistants to front desk personnel instead of utilizing their full education due to some current restrictions with in the clinical setting. It is well documented⁷ that there is a shortage of therapy providers nationwide, resulting in longer wait times for access to care and more chronic illness/ailment as a result:

- ATs provide a cost effective, viable solution to fill that shortage that is straining our healthcare system
- ATs are a resource to provide consumers with the services they need to resume healthy, productive lives and reduce the risk of chronic injury and recurrence
- Demographic trends reflect that the population is living longer and are remaining more active in their later years
- A Bureau of Labor Statistics study showed that injuries related to athletic activities of middle aged adults were the result of 488 million days of restricted work in 2002. ¹⁵

All of these measures aid in cost containment and overall stress on the healthcare system. ATs have demonstrated integral contributions to the healthcare market in this setting.

Athletic Trainers in the Workplace ⁸

When working to the fullest extent of their education and training athletic trainers can benefit the workplace greatly as outlined below. The change in the athletic training scope of practice can bring some of the below listed information to fruition for Connecticut.

Benefits of the AT in a workplace setting ^{9,11,12,13,14}

According to the NATA's national manager for business development, in 2014 five states reported workers compensation carriers who recognize the AT as a healthcare provider. Ohio's workers compensation for instance recognizes athletic trainers as qualified health care providers and reimburses directly for their services.

Concentra's Athletic Health Specialist (WAHS) program employs ATs and Physical Therapists.¹¹ The company believes that by employing conditioning programs, injury screenings, and health and fitness improvement strategies, its incidence of lost workdays were reduced by more than half and associated workers' compensation costs decreased significantly.¹¹

Within the first year of the program:¹¹

- WAHS prevented 289 urgent care visits
 - Saving over \$900,000 (\$3,250 typical cost per case), according to the company's safety manager.

Ergonomics Plus¹² is a company that is focused on workplace injury prevention and hires ATs which they contract to warehouses and industrial corporate companies. Some of their clients include:¹²

- General Electric
- Amazon
- Schneider Electric
- DuPont
- Grainger

The Industrial Athlete, Inc.¹³ also hires ATs and reported that their Sports Medicine Model had lower costs (approximately 1/3 that of traditional medicine) yet had higher quality care resulting in better outcomes. The Industrial Athlete provides ATs on site, supervised by corporate management and physician teams, to any industry that is in need of controlling medical costs. They provide companies with:¹³

- Injury Prevention
- On-site Rehabilitation
- On-site emergency care

The Return on Investment of an AT ^{1,3,9,11,12,13, 14}

- Of companies that kept return on investment (ROI) data, 100 percent reported a positive ROI with more than 80 percent indicating a ROI of \$3 or more for every \$1 invested.
- More than 85 percent of companies reported that both the number and costs of work-related injuries decreased by at least 25 percent.
- More than 90 percent of respondents indicated employee days away from work decreased by 25 percent or more at their company.

- Almost half of the companies had their emergency room costs reduced by 50 percent or more.
- More than 50 percent of surveyed companies reported a decrease in costs associated with workplace injuries.
- Of these companies, 35 percent reported a decrease in costs of more than 50 percent.

Of the companies that tracked their return on investment: ¹⁴

- 2 (7.7%) reported a ROI of \$1
- 3 (1.5%) reported a ROI of \$2
- 3 (11.5%) reported a ROI of \$3
- 6 (23.1%) reported a ROI of \$3 - \$5
- 6 (23.1%) reported a ROI of \$5 - \$7
- 6 (23.1%) reported a ROI of more than \$7

Healthcare Costs ¹⁴

Of respondents that followed their healthcare costs:

- 45 percent reported that the athletic trainer made an impact on healthcare costs within 6 months.
- 100 percent reported that the athletic trainer made an impact on healthcare costs within 1 year.

The US Bureau of Labor Statistics ¹⁵

The Bureau of Labor Statistics (BLS) projects a 30 percent increase in athletic training jobs in the next 8 years. The BLS recognizes that ATs can work in multiple settings with multiple types of people, including young children, athletes and the older population. Additionally, the BLS reports that:

“Insurance and workers’ compensation costs have become a concern for many employers and insurance companies, especially in areas where employees are often injured on the job. For example, military bases hire ATs to help train military personnel in how to properly lift items or to create training programs aimed at keeping injury rates down. More insurance companies are recognizing ATs as healthcare providers and are reimbursing the cost of an athletic trainer’s services.” ¹⁵

Connecticut Business and Industry Association¹⁴

In 2009 the Connecticut Business and Industry Association (CBIA) reported a survey on CT Companies. They reported the breakdown of companies in CT in 2009 with a projected growth in the next few years:

- 30% manufacturing
- 17% from the service sector
- 15% professional services
- 7% nonprofit associations
- 7% wholesale trade
- 6% construction
- 6% insurance and finance
- 5% retail
- 7% other industry sectors

Judging by the percentages of companies in CT there is a high potential of growth for ATs to help reduce healthcare costs, especially in work related industries such as manufacturing, construction and other industry sectors.

Highlights

- Increased job opportunities will allow graduates of CT's five Athletic training programs to stay in CT. CT has the high percentage of young people leaving the state and we need to keep these bright young adults in the state. State short term occupational projections for athletic training in the state alarmingly include a -.02 change.¹⁷ The updates to the CT state practice act can help turn this number to a positive.
- Due to an ATs skill in biomechanical assessment, OSHA recognizes the athletic trainer as having the skills to function as an ergonomics consultant.¹³
- ATs cannot practice to their fullest potential in CT
- There are many potential jobs to create in CT by utilizing an AT
- Millions of dollars can be saved in companies by using an AT able to practice fully
- Millions of dollars can be saved in healthcare costs due to an ATs specialization in the area of Prevention^{2,14}
- Return on Investment:¹⁴
 - Of companies that kept return on investment (ROI) data, 100 percent reported a positive ROI with more than 80 percent indicating a ROI of \$3 or more for every \$1 invested.

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CH 9: Healthcare Professions Directly Impacted

This chapter outlines the healthcare professions that will be directly impacted by this scope of practice change. The CATA has the utmost respect for all healthcare professions and hopes the scope of practice update will increase access and healthcare provided to CT residents. The efforts taken by the CATA to meet with and discuss the nature of this change with all the listed parties are outlined below. The CATA looks forward to continued collaboration and discussion with all groups in order to reach a consensus. We feel as though we have addressed many of these concerns with this scope of practice report submission.

Profession	Projected impact on profession	Nature of impact	CATA Efforts
Physicians	<ul style="list-style-type: none"> • Increased communication • Improved healthcare • Improved collaboration • Improved comprehensive care • Optimization of patient care 	Positive	<p>Orthopedic Society of CT 2014: Requested via email with President of Orthopedic Association of CT (2014). GAC Chair spoke with president of association via phone (Sept 2014). A follow up call was made in Fall of 2015.</p> <p>2016: CATA President communicated with secretary of the association in 2016 regarding scope of practice submission to the Department of Public Health. The Orthopedic Association of CT submitted a neutral letter regarding suggested changes to the CT Athletic Training practice act during the 2016 legislative session.</p>

			<p>Individual Orthopedic Physicians 2014-2015: CATA met with various orthopedic physicians in 2014 and 2015 regarding the scope summary and proposed language.</p> <p>2016: Numerous orthopedic physicians individually submitted letters of support in the 2016 legislative session.</p> <p>CT State Medical Society 2014: Met with Chair of the CT State Medical Society’s (CSMS) Committee on the Medical Aspect of Sport in August of 2014. A meeting with the entire CSMS Committee was held in September of 2014 and follow up meetings were held throughout the year and spring of 2015.</p> <p>2016: The CATA remains an active member of the Committee on the medical aspect of sport and CSMS submitted a letter of support during the 2015 legislative session.</p>
Nurses	<ul style="list-style-type: none"> • Increased communication • Improved comprehensive care • Improved health care • Optimization of patient care 	Positive	<p>CT APRN Society 2015: Met with members of the CT APRN society in June of 2015. The members we met with agreed to review our scope of practice report and provide us with feedback.</p> <p>2015: Before submission of the 2015 scope of practice report to the Department of Public Health the CATA sent the report and proposed language changes to the APRN society with no response.</p> <p>2016: During the 2016 legislative session the CT APRN society submitted a letter of opposition in regard to the CT athletic training scope of practice. The CATA wrote to the CT APRN Society asking to meet and discuss with littl reciprocation.</p>

		<p>CNA 2015: The CATA met with the Connecticut Nurses Association multiple times during 2015-2016 and we have heard their concerns and understand them. We are looking forward to continuing to work with them and feel as though we have addressed some of their concerns.</p>
<p>Physical Therapists</p>	<ul style="list-style-type: none"> • Collaboration of healthcare professionals for the optimization of patient care • Improved comprehensive care for physical medicine and rehabilitation mainly in the area of musculoskeletal injuries • Perceived that ATs would take jobs from PTs “turf battle”, however each profession is uniquely trained in overlapping competencies and proficiencies of rehabilitation. • We have done our diligence in meeting with the CPTA and communicating changes and remaining transparent through the past 3 years. 	<p>Positive</p> <p>2014: Met on 7/11/14 with Director of Doctor of Physical Therapy Program at the University of Connecticut Met on 7/28/14, with Regional Sports Medicine Director of Select Physical Therapy, the largest outpatient rehabilitation company in CT</p> <p>CATA President and CPTA president met in Dec of 2014 and a follow up meeting with the new CPTA president followed in 2015. In June of 2015 the CATA governmental affairs committee chair and president along with the CATA lobbyist met with CPTA president and lobbyist. The CPTA gave us some suggestions on who they would like us to follow up with in regards to their membership.</p> <p>2015: We respected the request of the CPTA and met with 3 of the 4 physical therapy program directors in the state of CT. We highly regarded the suggestions of the program directors and the CPTA and thus in turn changed the term “individual” to “physically active individual” in the 2016 submission of the CT athletic training practice act submission to the Public Health Committee in the 2016 legislative session. We also sent the scope of practice report to the CPTA before submission to DPH in 2015.</p> <p>2016: We met with the CPTA in April of 2016 in order to discuss the proposed bill and received their feedback a couple of weeks after our meeting. We asked to discuss their comments and suggestions further with</p>

			no response. We feel as though we have addressed their concerns with this current scope of practice report and proposed language and we look forward to further collaboration.
Occupational Therapists	<ul style="list-style-type: none"> • Change allows us to better address unhealthy lifestyle behaviors, and allows collaboration if necessary • The impact is seen as neutral (on the part of the CATA) due to the differences in the scope of an athletic trainer and an Occupational Therapist. Occupational Therapist deal with conditions outside of an ATs scope and we recognize this and would refer to the OT appropriately. • An athletic trainer would be seen providing prevention and wellness in the workplace as well as other services in their education and training 	Neutral	<p>2014: Met with ConnOTA president and governmental affairs chair in November of 2014. We were able to discuss various aspects of the scope report and better understand each other's positions. A follow up email was sent and received a few weeks post meeting with a synopsis of what was discussed.</p> <p>A follow up email was sent in Aug of 2015 in order to meet and further discuss the scope of practice and specifics. The CATA also sent the scope of practice report to the ConnOTA while submitting to the DPH in 2015.</p> <p>2015: In October the CATA GAC and the legislative chair of the ConnOTA discussed the scope of practice report and suggested changes and the CATA was under the impression the changes were understood. After reading the letter of opposition the CATA reached out again to the ConnOTA, a conference call was held and the CATA received feedback on the proposed bill. It was clear the ConnOTA felt as though ATs do not have the education to do what was proposed despite the conversations we had and the proof of educational competencies. We look forward to further collaboration.</p>
Dietitians-Nutritionists	<ul style="list-style-type: none"> • We work well with dieticians & Nutritionists, we don't anticipate any changes and will continue to refer to the proper healthcare provider • ATs are educated on the recognition of disordered eating and work with and <i>refer athletes to nutritionists</i> when the issue is outside of the scope of an AT 	Neutral	

Chiropractors	<ul style="list-style-type: none"> Chiropractors will be able to hire ATs in their offices in order to provide care alongside them in turn improving healthcare, increasing communication and collaboration between healthcare providers and improving comprehensive care for CT residents 	Positive	<p>Met with the Chiropractic Association in April 2015. The associations seemed to agree on many of the changes noted in the scope of practice report.</p> <p>2016: The CATA reached out to the Chiropractic Association through the groups lobbyists during the 2016 legislative session but no meeting was held.</p>
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CH 10: The Ability to Practice to the Full Extent of the Athletic Trainers' Education and Training

The professional domains of athletic training include: (1) injury/illness prevention and wellness, (2) clinical evaluation and assessment, (3) immediate and emergency care, (4) treatment and rehabilitation and (5) organizational and professional health and well-being.¹ As such athletic training stresses the importance of injury prevention. ATs have demonstrated their ability to provide the emergency care on thousands of athletic fields across the nation and have demonstrated success in rehabilitating various injuries and managing illnesses. ATs are recognized nationally for their role in the injury prevention and care of concussions and exertional heat illnesses, among other conditions.

The proposed scope of practice changes will reinforce the standing orders of the AT and the direction they receive from the physician signing those orders. The new language places new requirements on the use of standing orders mandating an annual review and better communication between the athletic trainer and physician. The proposed language better delineates the necessary guidelines that should be included in the standing orders to include concussion management, emergency management and referral. The proposed language requires that a licensed health care provider (e.g., the provider signing standing orders or a prescription for rehabilitative services) determine the patient is free of co-morbidities that would preclude an athletic trainer from providing care to a patient

ATs have traditionally been known for the care of athletic populations including *youth* and interscholastic players to elite professionals. Due to the restricting definition of athlete unique to Connecticut which includes a 3 times per week criteria – athletic trainers' often cannot serve the youth population and recreational athletes who would greatly benefit from their care because some of these individuals do not participate in sport or physical activity three times/week.

Furthermore, the skyrocketing costs of injuries across the United States,² have highlighted the value of ATs serving non-athletic populations, especially in workplace and Physical Medicine and Rehabilitation (PM & R) settings. ATs are employed nationally in various industries applying preventive wellness care, onsite injury assessment, treatment, and rehabilitation. ATs are also serving other physically active populations that include the U.S. military, performing arts, law enforcement and firefighters, and members of the general public.³

In turn, athletic training education has evolved in response to this growth in patient population. All athletic training students receive extensive education in domains listed in the first paragraph of this chapter and throughout the scope of practice report. ATs are taught to recognize illnesses, and often deal with medical conditions such as asthma, diabetes, concussions, allergic reactions and common illnesses like the flu which are often seen in the athletic population and traditional athletic settings athletic trainers are found in. The education and skill of the athletic trainer is well-adapted to provide care for most sectors of the population.

The requested changes in language will also recognize the existence of pre-professional (entry-level) Master's degree programs in athletic training. Current language recognizes the need for license applicants to have a baccalaureate degree. However, there has been a growth of Master's degree programs in athletic training at the entry-level and all programs will be required to transition to a Master's degree in the near future discussed in Chapter 6. Proposed language will acknowledge the graduates of these programs.

Finally, the proposed scope of practice changes will assist in correcting a typographical error that is present in current licensure law. Presently ATs are restricted to 'light massage'. The original proposed bill called for a comma after light, but was dropped inadvertently during the legislative process. The original intent was to recognize the use of modalities such as lasers (light) in the athletic training setting, as well as massage. Unfortunately, the missing comma allows for "light massage," limiting athletic training practice.

> 1.1. Employment limitations

ATs in Connecticut are significantly limited in the patient and client population that they can care for by the definition of athlete in the current athletic training scope of practice. As previously mentioned CT is the only state that has a definition of athlete with a specific amount of times an individual must participate in activity before they are considered an athlete. Connecticut's regulations are outdated in comparison to many of the more recent legislative acts enacted nationally. As such it is important to update the current scope of practice to reflect the latest trends and the enhanced value of the athletic trainer in serving youth, recreational, and 'non-athletic' but physically active populations. The proposed changes will permit ATs to take a more active role in caring for youth and recreational athletes on the sidelines, in addition to applying preventive techniques, assessment and treatment in work- place settings, effectively reducing health care costs and improving business viability.

The three-day requirement in defining an athlete has an effect on athletic training practice. Several youth sports do not meet three days per week thus, those athletes would be precluded from the care of an athletic trainer. This contrasts the recognition of ATs at the state level for their role in injury prevention and care. Athletic trainers and the Connecticut Athletic Trainers' Association have worked closely with many legislators and athlete safety advocates on issues concerning automatic external defibrillators (AEDs), helped pass one of the first concussion bills in the nation as well as heavily assisted with updating this bill recently, worked on and assisted with the recent passing of the sudden cardiac arrest bill and are constantly working to improve the safety of the Connecticut residents. ATs have been selected by the legislature to serve on a task force to identify best practices in concussion injuries occurring in youth sports, yet may not be allowed to offer their care on the field at the time of injury.

The current scope of practice prevents ATs from providing immediate and rehabilitative care to those individuals who can truly benefit from our expertise. Military, firefighters, industrial workers and even dance companies clearly demonstrate "the strength, agility, flexibility, range of motion, speed or stamina" characterized by the athlete definition in the current licensure laws. However, the requirement of where the individual participates ("regular participant in sports or recreational activities"), and how many times per week they participate, makes these individuals fall outside of the scope of care for ATs, despite a similarity of injury.

Another limitation of the current licensure law is its failure to recognize the role ATs have in dealing with acute and chronic medical conditions. Acute conditions frequently arise and require immediate assistance by the athletic

trainer; these include diabetic emergencies, respiratory issues such as asthma, allergic reactions, seizures and sudden cardiac emergencies. The existing law does not account for such emerging conditions, although the AT has significant education and training in these areas as addressed in Chapter 6, which places the athletic trainer in a potentially difficult situation – choosing to come to the rescue of a person in need versus the state-mandated restriction to care for injuries only. Connecticut statutes recognize a role for the athletic trainer in caring for these emerging conditions, providing for ATs to administer medications such as glucagon, epi-pens and asthma inhalers, but only for ATs employed at a high school.

> 1.2. Places ATs work around the country

Workplace Settings

ATs are employed in locations outside of the ‘athletic setting.’ One of the fastest areas of professional opportunities is the industrial setting. ATs are hired to develop preventive programs to reduce onsite work injuries and healthcare costs. Zimmerman⁷ noted a 54% decrease in workman’s compensation claims at a Michigan plant with the introduction of fitness program initiated by trained personnel. NASA and the Kennedy Space Center employ ATs and rehabilitative technicians to develop programs to prevent onsite workplace injury and exercise programs that will help overcome bone and muscle atrophy incurred during space flight. Boeing, Delta Airlines and Kimberly-Clark employ ATs in preventive and on-site injury management roles.⁸ Robinette described a program at UPS, using a multidisciplinary team including ATs and ergonomic specialists that provided preventive education, injury intervention and post-rehabilitative expertise.⁹ The program significantly reduced healthcare costs by 60%, with an 85% reduction in annual injury rates. AT positions have increased across the United States with companies like Workfit Inc., Welltrail and The Industrial Athlete developing injury prevention programs.

The performing arts have seen a dramatic rise in the employment of ATs. The Radio City Rockettes maintains several ATs on their staff providing acute and rehabilitative care. The Cirque du Soleil and similar acrobatic circuses have ATs serving with their shows. ATs are serving with ballet companies such as the Cincinnati Ballet and multiple dance organizations through the Harkness Center in New York City. ATs also provide care for cast members at Disneyland through an agreement with a local hospital. ATs are becoming commonplace working with our military. The Naval Base in San Diego, houses a sports medicine center which employs ATs. ATs serve in the naval base near Norfolk (VA), Fort Bragg (NC), with the U.S. Army and Marines, and with branches of U.S. Special Forces (e.g., Navy SEALs).

State Licensure Laws

Nationally, several states have given statutory recognition to a larger scope of practice for the athletic trainer, Georgia recognizes the athletic trainer’s ability to provide care for an athletic injury that occurs to a person as a result of “any activities requiring physical strength, agility, flexibility, range of motion, speed or stamina without respect to where or how the injury occurs”. It should be noted that unlike Connecticut, the patient population is not limited to ‘athlete’. Furthermore, Indiana notes the presence of ATs in “a clinic accessible to the general public...” in identifying the need for referrals from a licensed health care professional.

In Michigan, athletic training means “...the clinical evaluation and assessment of an individual for an injury and illness...” not limiting the scope of practice to athletes. Ohio does not mention “athlete” in defining the scope of athletic training. Ohio law defines athletic training as the “practice of prevention, recognition, and assessment of an athletic injury...” Later in the law, athletic injuries are defined as an injury “that affects the individual’s participation or performance in sports ... or other activity that requires physical strength, agility, speed...” Once again the scope does not require ATs to care only for athletes. Pennsylvania permits an athletic trainer to provide services to a “physically active person under the care of a physician, dentist or podiatrist.

Nebraska recognizes the presence of ATs in an “outpatient medical facility” without identifying a specific patient population. Virginia and Wisconsin permit an athletic trainer to treat an individual incurring ‘a substantially similar injury or condition resulting from occupational activity’ to include the rehabilitation of these under the direction of a health care provider as previously defined.

Locally, Vermont defines athletic training as “the application of principles and methods of conditioning, the prevention, immediate care, and treatment of athletic or orthopedic injuries within the scope and training.” Similar to wording in the proposed Connecticut scope of practice change request, Vermont permits ATs to provide care “to athletes or the physically active who have an athletic or orthopedic injury and have been determined by a physician’s examination to be free of an underlying pathology that would affect treatment.”

> 1.3. Athletic training Education Programs in the State

Currently, Connecticut has five undergraduate Athletic training Education Programs as outlined in earlier chapters. The schools include, 3 state schools: Central Connecticut State University, Southern Connecticut State University, and the University of Connecticut and 2 private institutions: Sacred Heart University and Quinnipiac University. Retention statistics can be found in Chapter 9 of this scope of practice report.

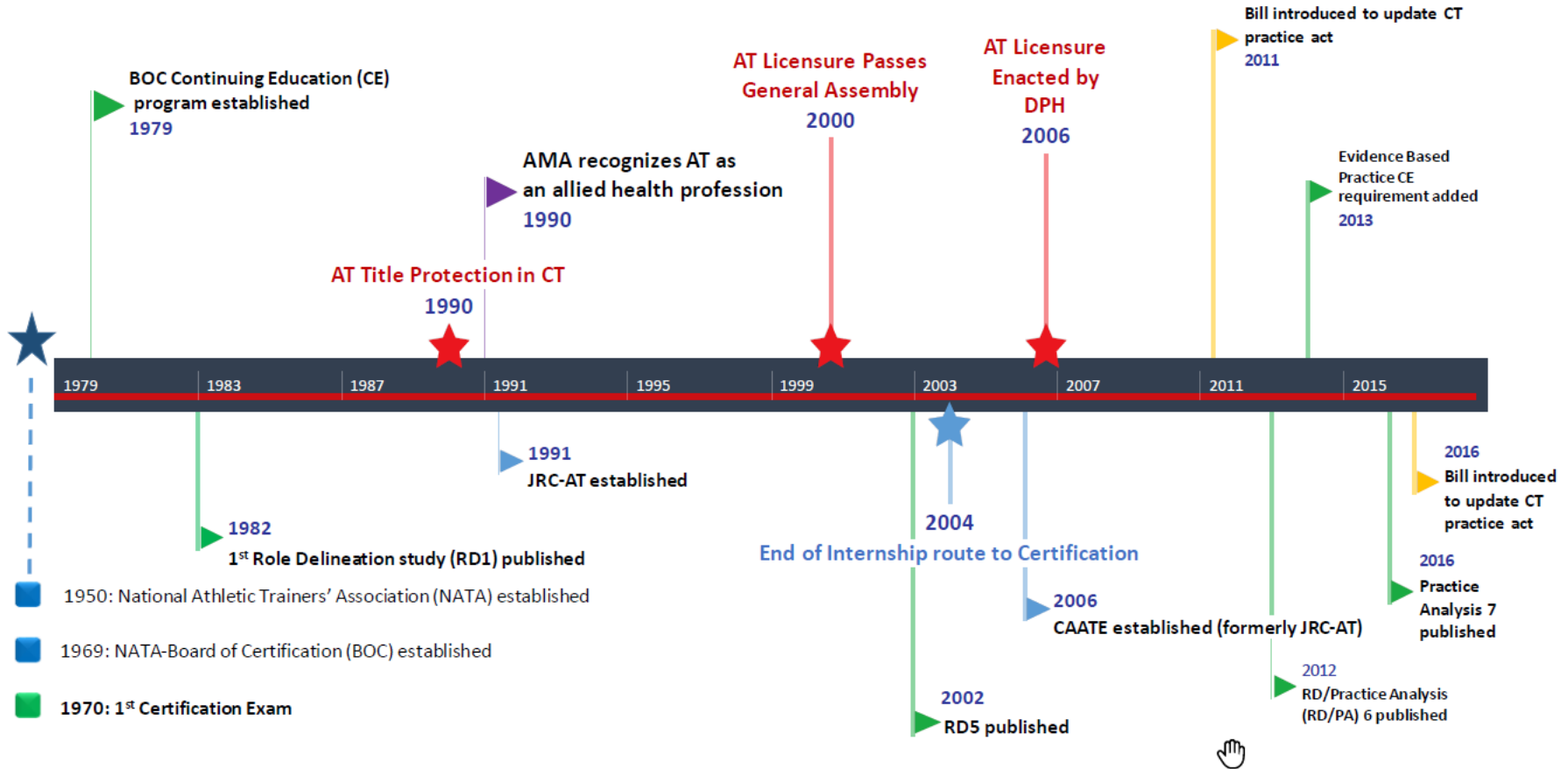
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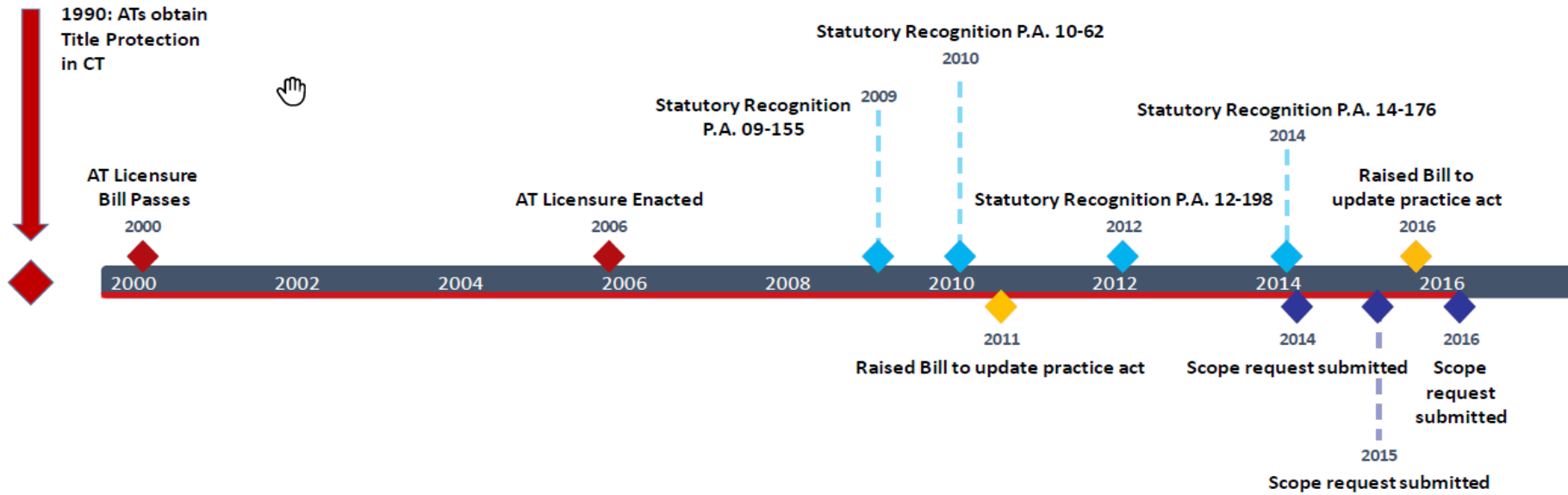
APPENDICIES:

Chapter 1: Timeline of the evolution of athletic training

AT Education & Regulatory Timeline



AT Legislative & Regulatory Timeline



Chapter 6:

This appendix includes a list of position statements relevant to Chapter 6 of the document and highlights some of the education and expertise possessed by athletic trainers.

For a full list of position statements by the NATA please visit: <http://www.nata.org/access-read/public/position-statements>

- 1. Management of Sport Concussion (March 2014)*
- 2. Pre-participation Physical Examinations and Disqualifying Conditions (February 2014)*
- 3. Conservative Management and Prevention of Ankle Sprains in Athletes (August 2013)*
- 4. Lightning Safety for Athletics and Recreation (March 2013)*
- 5. Evaluation of Dietary Supplements for Performance Nutrition (February 2013)*
- 6. Anabolic-Androgenic Steroids (September 2012)*
- 7. National Athletic Trainers' Association Position Statement: Sudden Death in Sport (February 2012)*
- 8. National Athletic Trainers' Association Position Statement: Safe Weight Loss and Maintenance Practices in Sport and Exercise (June 2011)*
- 9. Pediatric Overuse Injuries (April 2011)*
- 10. Preventing, Detecting, and Managing Disordered Eating in Athletes (February 2008)*
- 11. Management of the Athlete with Type 1 Diabetes Mellitus (December 2007)*
- 12. Management of Asthma in Athletes (September 2005)*
- 13. Endorsed by the American Academy of Pediatrics*
- 14. Head down contact and spearing in tackle football (March 2004)*
- 15. Fluid replacement for athletes (June 2000)*
- 16. Exertional heat illnesses (September 2002)*
- 17. Emergency planning in athletics (March 2002)*
- 18. Environmental Cold Injuries*
- 19. Acute Management of the Cervical Spine Injured Athlete*
- 20. Skin Disease*

Introduction

This document is to be used as a guide by administrative, academic, and clinical program personnel when structuring all facets of the education experience for students. Educational program personnel should recognize that the Competencies are the **minimum requirements** for a student's professional education. Athletic training education programs are encouraged to exceed these minimums to provide their students with the highest quality education possible. In addition, programs should employ innovative, student-centered teaching and learning methodologies to connect the classroom, laboratory and clinical settings whenever possible to further enhance professional preparation.

The acquisition and clinical application of knowledge and skills in an education program must represent a defined yet flexible program of study. Defined in that knowledge and skills must be accounted for in the more formal classroom and laboratory educational experience. Flexible in that learning opportunities are everywhere. Behaviors are identified, discussed, and practiced throughout the educational program. Whatever the sequence of learning, patient safety is of prime importance; students must demonstrate competency in a particular task before using it on a patient. This begins a cycle of learning, feedback, refinement, and more advanced learning. Practice with concepts by gaining clinical experience with real life applications readies the student for opportunities to demonstrate decision-making and skill integration ability, Clinical Integrated Proficiencies (CIP). CIPs are designed to measure of real life application. Students should be assessed in their performance of CIPs on actual patients. If this is not possible, standardized/simulated patients or scenarios should be used to measure student proficiency.

Also, inherent in this document is the understanding that a comprehensive basic and applied science background is needed for students to develop appropriate levels of professional competence in the discipline-specific knowledge and skills described in this document.

All facets of the educational programs must incorporate current knowledge and skills that represent best practice. Programs must select such content following careful review of the research literature and consideration of the needs for today's entry-level practitioner. Because the knowledge within a profession is dynamic, information regarding current best practice is fluid and requires on-going examination and reflection.

Summary of Major Changes included in 5th Edition

- The 12 content areas of the previous edition have been reorganized into 8 to eliminate redundancies and better reflect current practice.
 - The pathology content area was eliminated, and these competencies are addressed throughout other content areas.
 - The risk management/prevention and nutritional considerations content areas were combined to form the new **Prevention and Health Promotion (PHP)** content area. This change was made to reflect the current emphasis on prevention and wellness across health care and the lifespan.
 - The orthopedic clinical exam/assessment and medical conditions/disabilities content areas were combined to form the **Clinical Examination and Assessment (CE)** content area. This change was made to emphasize that athletic trainers use one standard clinical examination model that changes based on the findings and needs of the patient.
 - The therapeutic modalities, conditioning and rehabilitative exercise and pharmacology content areas were combined to form one content area that incorporates all aspects of **Therapeutic Interventions (TI)**.
 - A new content area was added to provide students with the basic knowledge and skills related to **Evidence-Based Practice (EBP)**. The importance of using EBP concepts and principles to improve

patient outcomes is being emphasized throughout the health care system and is reflected within this new content area.

- The **Acute Care (AC)** content area has been substantially revised to reflect contemporary practice.
 - The addition of skill in assessing rectal temperature, oxygen saturation, blood glucose levels, and use of a nebulizer and oropharyngeal and nasopharyngeal airways reflects recommendations of NATA position statements that are published or in development.
- The content areas now integrate knowledge and skills, instead of separate sections for cognitive and psychomotor competencies. The action verb used in each competency statement identifies the expected outcome. In some places, knowledge is the expectation and not skill acquisition. For example, acute care competency #9 (AC-9) requires that athletic training students be knowledgeable about the various types of airway adjuncts including oropharyngeal airways (OPA), nasopharyngeal airways (NPO) and supraglottic airways. However, the accompanying skill competency AC-10 does not require skill acquisition in the use of the supraglottic airways.
- The **Clinical Integration Proficiencies (CIP)**, which are ideally assessed in the context of real patient care, have been removed from the individual content areas and reorganized into a separate section. This reorganization reflects clinical practice and demonstrates the global nature of the Proficiencies. For example, rather than just assessing students' ability to examine a real patient in a real clinical setting, the new CIPs require that students demonstrate the ability to examine and diagnose a patient, provide appropriate acute/emergent care, plan and implement appropriate therapeutic interventions, and make decisions pertaining to safe return to participation. This approach to student assessment better reflects the comprehensive nature of real patient care.

Comparison of the Role Delineation Study/Practice Analysis, 6th Ed and the Competencies

The Role Delineation Study/Practice Analysis, 6th ed (RDS/PA) of the Board of Certification serves as the blue print for the certification examination. As such, the Competencies must include all tasks (and related knowledge and skills) included in the RDS/PA. Working with the BOC, we compared the RDS/PA with this version of the Competencies and can confidently state that the content of the RDS/PA is incorporated in this version.

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Foundational Behaviors of Professional Practice

These basic behaviors permeate professional practice and should be incorporated into instruction and assessed throughout the educational program.

Primacy of the Patient

- Recognize sources of conflict of interest that can impact the client's/patient's health.
- Know and apply the commonly accepted standards for patient confidentiality.
- Provide the best healthcare available for the client/patient.
- Advocate for the needs of the client/patient.

Team Approach to Practice

- Recognize the unique skills and abilities of other healthcare professionals.
- Understand the scope of practice of other healthcare professionals.
- Execute duties within the identified scope of practice for athletic trainers.
- Include the patient (and family, where appropriate) in the decision-making process.
- Work with others in effecting positive patient outcomes.

Legal Practice

- Practice athletic training in a legally competent manner.
- Identify and conform to the laws that govern athletic training.
- Understand the consequences of violating the laws that govern athletic training.

Ethical Practice

- Comply with the NATA's *Code of Ethics* and the BOC's *Standards of Professional Practice*.
- Understand the consequences of violating the NATA's *Code of Ethics* and BOC's *Standards of Professional Practice*.
- Comply with other codes of ethics, as applicable.

Advancing Knowledge

- Critically examine the body of knowledge in athletic training and related fields.
- Use evidence-based practice as a foundation for the delivery of care.
- Appreciate the connection between continuing education and the improvement of athletic training practice.
- Promote the value of research and scholarship in athletic training.
- Disseminate new knowledge in athletic training to fellow athletic trainers, clients/patients, other healthcare professionals, and others as necessary.

Cultural Competence

- Demonstrate awareness of the impact that clients'/patients' cultural differences have on their attitudes and behaviors toward healthcare.
- Demonstrate knowledge, attitudes, behaviors, and skills necessary to achieve optimal health outcomes for diverse patient populations.
- Work respectfully and effectively with diverse populations and in a diverse work environment.

Professionalism

- Advocate for the profession.
- Demonstrate honesty and integrity.
- Exhibit compassion and empathy.
- Demonstrate effective interpersonal communication skills.

Evidence-Based Practice (EBP)

Evidence-based practitioners incorporate the best available evidence, their clinical skills, and the needs of the patient to maximize patient outcomes. An understanding of evidence-based practice concepts and their application is essential to sound clinical decision-making and the critical examination of athletic training practice.

Practicing in an evidence-based manner should not be confused with conducting research. While conducting research is important to the profession of athletic training, developing the ability to conduct a research project is not an expectation of professional education. This section focuses on the knowledge and skills necessary for entry-level athletic trainers to use a systematic approach to ask and answer clinically relevant questions that affect patient care by using review and application of existing research evidence. One strategy, among others, is to use a five-step approach: 1) creating a clinically relevant question; 2) searching for the best evidence; 3) critically analyzing the

evidence; 4) integrating the appraisal with personal clinical expertise and patients' preferences; and 5) evaluating the performance or outcomes of the actions. Each competency listed below is related to such a systematic approach and provides the building blocks for employing evidence-based practice. Other specific evidence-based practice competencies have also been included in appropriate content areas.

All items listed in parentheses (eg) are intended to serve as examples and are not all encompassing or the only way to satisfy the competency.

Knowledge and Skills

EBP-1. Define evidence-based practice as it relates to athletic training clinical practice.

EBP-2. Explain the role of evidence in the clinical decision making process.

EBP-3. Describe and differentiate the types of quantitative and qualitative research, research components, and levels of research evidence.

EBP-4. Describe a systematic approach (eg, five step approach) to create and answer a clinical question through review and application of existing research.

EBP-5. Develop a relevant clinical question using a pre-defined question format (eg, PICO= Patients, Intervention, Comparison, Outcomes; PIO = Patients, Intervention, Outcomes).

EBP-6. Describe and contrast research and literature resources including databases and online critical appraisal libraries that can be used for conducting clinically-relevant searches.

EBP-7. Conduct a literature search using a clinical question relevant to athletic training practice using search techniques (eg, Boolean search, Medical Subject Headings) and resources appropriate for a specific clinical question.

EBP-8. Describe the differences between narrative reviews, systematic reviews, and meta-analyses.

EBP-9. Use standard criteria or developed scales (eg, Physiotherapy Evidence Database Scale [PEDro], Oxford Centre for Evidence Based Medicine Scale) to critically appraise the structure, rigor, and overall quality of research studies.

EBP-10. Determine the effectiveness and efficacy of an athletic training intervention utilizing evidence-based practice concepts.

EBP-11. Explain the theoretical foundation of clinical outcomes assessment (eg, disablement, health-related quality of life) and describe common methods of outcomes assessment in athletic training clinical practice (generic, disease-specific, region-specific, and dimension-specific outcomes instruments).

EBP-12. Describe the types of outcomes measures for clinical practice (patient-based and clinician-based) as well as types of evidence that are gathered through outcomes assessment (patient-oriented evidence versus disease-oriented evidence).

EBP-13. Understand the methods of assessing patient status and progress (eg, global rating of change, minimal clinically important difference, minimal detectable difference) with clinical outcomes assessments.

EBP-14. Apply and interpret clinical outcomes to assess patient status, progress, and change using psychometrically sound outcome instruments.

Prevention and Health Promotion (PHP)

Athletic trainers develop and implement strategies and programs to prevent the incidence and/or severity of injuries and illnesses and optimize their clients'/patients' overall health and quality of life. These strategies and programs also incorporate the importance of nutrition and physical activity in maintaining a healthy lifestyle and in preventing chronic disease (eg, diabetes, obesity, cardiovascular disease).

Knowledge and Skills

General Prevention Principles

PHP-1. Describe the concepts (eg, case definitions, incidence versus prevalence, exposure assessment, rates) and uses of injury and illness surveillance relevant to athletic training.

PHP-2. Identify and describe measures used to monitor injury prevention strategies (eg, injury rates and risks, relative risks, odds ratios, risk differences, numbers needed to treat/harm).

PHP-3. Identify modifiable/non-modifiable risk factors and mechanisms for injury and illness.

PHP-4. Explain how the effectiveness of a prevention strategy can be assessed using clinical outcomes, surveillance, or evaluation data.

PHP-5. Explain the precautions and risk factors associated with physical activity in persons with common congenital and acquired abnormalities, disabilities, and diseases.

PHP-6. Summarize the epidemiology data related to the risk of injury and illness associated with participation in physical activity.

Prevention Strategies and Procedures

PHP-7. Implement disinfectant procedures to prevent the spread of infectious diseases and to comply with Occupational Safety and Health Administration (OSHA) and other federal regulations.

PHP-8. Identify the necessary components to include in a preparticipation physical examination as recommended by contemporary guidelines (eg, American Heart Association, American Academy of Pediatrics Council on Sports Medicine & Fitness).

PHP-9. Explain the role of the preparticipation physical exam in identifying conditions that might predispose the athlete to injury or illness.

PHP-10. Explain the principles of the body's thermoregulatory mechanisms as they relate to heat gain and heat loss.

PHP-11. Explain the principles of environmental illness prevention programs to include acclimation and conditioning, fluid and electrolyte replacement requirements, proper practice and competition attire, hydration status, and environmental assessment (eg, sling psychrometer, wet bulb globe temperatures [WBGT], heat index guidelines).

PHP-12. Summarize current practice guidelines related to physical activity during extreme weather conditions (eg, heat, cold, lightning, wind).

PHP-13. Obtain and interpret environmental data (web bulb globe temperature [WBGT], sling psychrometer, lightning detection devices) to make clinical decisions regarding the scheduling, type, and duration of physical activity.

PHP-14. Assess weight loss and hydration status using weight charts, urine color charts, or specific gravity measurements to determine an individual's ability to participate in physical activity in a hot, humid environment.

PHP-15. Use a glucometer to monitor blood glucose levels, determine participation status, and make referral decisions.

PHP-16. Use a peak-flow meter to monitor a patient's asthma symptoms, determine participation status, and make referral decisions.

PHP-17. Explain the etiology and prevention guidelines associated with the leading causes of sudden death during physical activity, including but not limited to:

PHP-17a. Cardiac arrhythmia or arrest

PHP-17b. Asthma

PHP-17c. Traumatic brain injury

PHP-17d. Exertional heat stroke

PHP-17e. Hyponatremia

PHP-17f. Exertional sickling

PHP-17g. Anaphylactic shock

PHP-17h. Cervical spine injury

PHP-17i. Lightning strike

PHP-18. Explain strategies for communicating with coaches, athletes, parents, administrators, and other relevant personnel regarding potentially dangerous conditions related to the environment, field, or playing surfaces.

PHP-19. Instruct clients/patients in the basic principles of ergonomics and their relationship to the prevention of illness and injury.

Protective Equipment and Prophylactic Procedures

PHP-20. Summarize the basic principles associated with the design, construction, fit, maintenance, and reconditioning of protective equipment, including the rules and regulations established by the associations that govern its use.

PHP-21. Summarize the principles and concepts related to the fabrication, modification, and appropriate application or use of orthotics and other dynamic and static splints.

PHP-22. Fit standard protective equipment following manufacturers' guidelines.

PHP-23. Apply preventive taping and wrapping procedures, splints, braces, and other special protective devices.

Fitness/Wellness

PHP-24. Summarize the general principles of health maintenance and personal hygiene, including skin care, dental hygiene, sanitation, immunizations, avoidance of infectious and contagious diseases, diet, rest, exercise, and weight control.

PHP-25. Describe the role of exercise in maintaining a healthy lifestyle and preventing chronic disease.

PHP-26. Identify and describe the standard tests, test equipment, and testing protocols that are used for measuring fitness, body composition, posture, flexibility, muscular strength, power, speed, agility, and endurance.

PHP-27. Compare and contrast the various types of flexibility, strength training, and cardiovascular conditioning programs to include expected outcomes, safety precautions, hazards, and contraindications.

PHP-28. Administer and interpret fitness tests to assess a client's/patient's physical status and readiness for physical activity.

PHP-29. Explain the basic concepts and practice of fitness and wellness screening.

PHP-30. Design a fitness program to meet the individual needs of a client/patient based on the results of standard fitness assessments and wellness screening.

PHP-31. Instruct a client/patient regarding fitness exercises and the use of muscle strengthening equipment to include correction or modification of inappropriate, unsafe, or dangerous lifting techniques.

General Nutrition Concepts

PHP-32. Describe the role of nutrition in enhancing performance, preventing injury or illness, and maintaining a healthy lifestyle.

PHP-33. Educate clients/patients on the importance of healthy eating, regular exercise, and general preventative strategies for improving or maintaining health and quality of life.

PHP-34. Describe contemporary nutritional intake recommendations and explain how these recommendations can be used in performing a basic dietary analysis and providing appropriate general dietary recommendations.

- PHP-35.** Describe the proper intake, sources of, and effects of micro- and macronutrients on performance, health, and disease.
- PHP-36.** Describe current guidelines for proper hydration and explain the consequences of improper fluid/electrolyte replacement.
- PHP-37.** Identify, analyze, and utilize the essential components of food labels to determine the content, quality, and appropriateness of food products.
- PHP-38.** Describe nutritional principles that apply to tissue growth and repair.
- PHP-39.** Describe changes in dietary requirements that occur as a result of changes in an individual's health, age, and activity level.
- PHP-40.** Explain the physiologic principles and time factors associated with the design and planning of pre-activity and recovery meals/snacks and hydration practices.
- PHP-41.** Identify the foods and fluids that are most appropriate for pre-activity, activity, and recovery meals/snacks.

Weight Management and Body Composition

- PHP-42.** Explain how changes in the type and intensity of physical activity influence the energy and nutritional demands placed on the client/patient.
- PHP-43.** Describe the principles and methods of body composition assessment to assess a client's/patient's health status and to monitor changes related to weight management, strength training, injury, disordered eating, menstrual status, and/or bone density status.
- PHP-44.** Assess body composition by validated techniques.
- PHP-45.** Describe contemporary weight management methods and strategies needed to support activities of daily life and physical activity.

Disordered Eating and Eating Disorders

- PHP-46.** Identify and describe the signs, symptoms, physiological, and psychological responses of clients/patients with disordered eating or eating disorders.
- PHP-47.** Describe the method of appropriate management and referral for clients/patients with disordered eating or eating disorders in a manner consistent with current practice guidelines.

Performance Enhancing and Recreational Supplements and Drugs

- PHP-48.** Explain the known usage patterns, general effects, and short- and long-term adverse effects for the commonly used dietary supplements, performance enhancing drugs, and recreational drugs.
- PHP-49.** Identify which therapeutic drugs, supplements, and performance-enhancing substances are banned by sport and/or occupational organizations in order to properly advise clients/patients about possible disqualification and other consequences.

Clinical Examination and Assessment (CE)

Athletic trainers must possess strong clinical examination skills in order to accurately assess and effectively treat their patients. The clinical examination is an on-going process, repeated to some extent each time the patient is treated. The development of these skills requires a thorough understanding of anatomy, physiology, and biomechanics. Athletic trainers must also apply clinical-reasoning skills throughout the physical examination process in order to assimilate data, select the appropriate assessment tests, and formulate a differential assessment.

The competencies identified in this section should be considered in the context of the competencies identified in other domains. For example, the knowledge and skills associated with acute care and therapeutic interventions, while applicable for this domain, are not repeated here.

The clinical examination process is comprehensive and may include a review of the systems and regions identified below based on the patient's relevant history and examination findings. Consideration must also be given to the

patient's behavioral and cognitive status and history; competencies addressing this content area are included elsewhere.

Systems and Regions

- a. Musculoskeletal
- b. Integumentary
- c. Neurological
- d. Cardiovascular
- e. Endocrine
- f. Pulmonary
- g. Gastrointestinal
- h. Hepatobiliary
- i. Immune
- j. Renal and urogenital
- k. The face, including maxillofacial region and mouth
- l. Eye, ear, nose, and throat

Knowledge and Skills

- CE-1.** Describe the normal structures and interrelated functions of the body systems.
- CE-2.** Describe the normal anatomical, systemic, and physiological changes associated with the lifespan.
- CE-3.** Identify the common congenital and acquired risk factors and causes of musculoskeletal injuries and common illnesses that may influence physical activity in pediatric, adolescent, adult, and aging populations.
- CE-4.** Describe the principles and concepts of body movement, including normal osteokinematics and arthrokinematics.
- CE-5.** Describe the influence of pathomechanics on function.
- CE-6.** Describe the basic principles of diagnostic imaging and testing and their role in the diagnostic process.
- CE-7.** Identify the patient's participation restrictions (disabilities) and activity limitations (functional limitations) to determine the impact of the condition on the patient's life.
- CE-8.** Explain the role and importance of functional outcome measures in clinical practice and patient health-related quality of life.
- CE-9.** Identify functional and patient-centered quality of life outcome measures appropriate for use in athletic training practice.
- CE-10.** Explain diagnostic accuracy concepts including reliability, sensitivity, specificity, likelihood ratios, prediction values, and pre-test and post-test probabilities in the selection and interpretation of physical examination and diagnostic procedures.
- CE-11.** Explain the creation of clinical prediction rules in the assessment and prognosis of various clinical conditions.
- CE-12.** Apply clinical prediction rules (eg, Ottawa Ankle Rules) during clinical examination procedures.
- CE-13.** Obtain a thorough medical history that includes the pertinent past medical history, underlying systemic disease, use of medications, the patient's perceived pain, and the history and course of the present condition.
- CE-14.** Differentiate between an initial injury evaluation and follow-up/reassessment as a means to evaluate the efficacy of the patient's treatment/rehabilitation program, and make modifications to the patient's program as needed.

CE-15. Demonstrate the ability to modify the diagnostic examination process according to the demands of the situation and patient responses.

CE-16. Recognize the signs and symptoms of catastrophic and emergent conditions and demonstrate appropriate referral decisions.

CE-17. Use clinical reasoning skills to formulate an appropriate clinical assessment for common illness/disease and orthopedic injuries/conditions.

CE-18. Incorporate the concept of differential assessment into the examination process.

CE-19. Determine criteria and make decisions regarding return to activity and/or sports participation based on the patient's current status.

CE-20. Use standard techniques and procedures for the clinical examination of common injuries, conditions, illnesses, and diseases including, but not limited to:

CE-20a. history taking

CE-20b. inspection/observation

CE-20c. palpation

CE-20d. functional assessment

CE-20e. selective tissue testing techniques / special tests

CE-20f. neurological assessments (sensory, motor, reflexes, balance, cognitive function)

CE-20g. respiratory assessments (auscultation, percussion, respirations, peak-flow)

CE-20h. circulatory assessments (pulse, blood pressure, auscultation)

CE-20i. abdominal assessments (percussion, palpation, auscultation)

CE-20j. other clinical assessments (otoscope, urinalysis, glucometer, temperature, ophthalmoscope)

CE-21. Assess and interpret findings from a physical examination that is based on the patient's clinical presentation. This exam can include:

CE-21a. Assessment of posture, gait, and movement patterns

CE-21b. Palpation

CE-21c. Muscle function assessment

CE-21d. Assessment of quantity and quality of osteokinematic joint motion

CE-21e. Capsular and ligamentous stress testing

CE-21f. Joint play (arthrokinematics)

CE-21g. Selective tissue examination techniques / special tests

CE-21h. Neurologic function (sensory, motor, reflexes, balance, cognition)

CE-21i. Cardiovascular function (including differentiation between normal and abnormal heart sounds, blood pressure, and heart rate)

CE-21j. Pulmonary function (including differentiation between normal breath sounds, percussion sounds, number and characteristics of respirations, peak expiratory flow)

CE-21k. Gastrointestinal function (including differentiation between normal and abnormal bowel sounds)

CE-21l. Genitourinary function (urinalysis)

CE-21m. Ocular function (vision, ophthalmoscope)

CE-21n. Function of the ear, nose, and throat (including otoscopic evaluation)

CE-21o. Dermatological assessment

CE-21p. Other assessments (glucometer, temperature)

CE-22. Determine when the findings of an examination warrant referral of the patient.

CE-23. Describe current setting-specific (eg, high school, college) and activity-specific rules and guidelines for managing injuries and illnesses.

Acute Care of Injuries and Illnesses (AC)

Athletic trainers are often present when injuries or other acute conditions occur or are the first healthcare professionals to evaluate a patient. For this reason, athletic trainers must be knowledgeable and skilled in the evaluation and immediate management of acute injuries and illnesses.

The competencies identified in this section should be considered in the context of the competencies identified in other domains. For example, the knowledge and skills associated with the process of examination and documentation, while applicable for this domain, are not repeated here. Likewise, the knowledge and skills associated with the administrative and risk management aspects of planning for an emergency injury/illness situation are not repeated here.

Knowledge and Skills

Planning

AC-1. Explain the legal, moral, and ethical parameters that define the athletic trainer's scope of acute and emergency care.

AC-2. Differentiate the roles and responsibilities of the athletic trainer from other pre-hospital care and hospital-based providers, including emergency medical technicians/ paramedics, nurses, physician assistants, and physicians.

AC-3. Describe the hospital trauma level system and its role in the transportation decision-making process.

Examination

AC-4. Demonstrate the ability to perform scene, primary, and secondary surveys.

AC-5. Obtain a medical history appropriate for the patient's ability to respond.

AC-6. When appropriate, obtain and monitor signs of basic body functions including pulse, blood pressure, respiration, pulse oximetry, pain, and core temperature. Relate changes in vital signs to the patient's status.

AC-7. Differentiate between normal and abnormal physical findings (eg, pulse, blood pressure, heart and lung sounds, oxygen saturation, pain, core temperature) and the associated pathophysiology.

Immediate Emergent Management

AC-8. Explain the indications, guidelines, proper techniques, and necessary supplies for removing equipment and clothing in order to access the airway, evaluate and/or stabilize an athlete's injured body part.

AC-9. Differentiate the types of airway adjuncts (oropharyngeal airways [OPA], nasopharyngeal airways [NPA] and supraglottic airways [King LT-D or Combitube]) and their use in maintaining a patent airway in adult respiratory and/or cardiac arrest.

AC-10. Establish and maintain an airway, including the use of oro- and nasopharyngeal airways, and neutral spine alignment in an athlete with a suspected spine injury who may be wearing shoulder pads, a helmet with and without a face guard, or other protective equipment.

AC-11. Determine when suction for airway maintenance is indicated and use according to accepted practice

protocols.

AC-12. Identify cases when rescue breathing, CPR, and/or AED use is indicated according to current accepted practice protocols.

AC-13. Utilize an automated external defibrillator (AED) according to current accepted practice protocols.

AC-14. Perform one- and two- person CPR on an infant, child and adult.

AC-15. Utilize a bag valve and pocket mask on a child and adult using supplemental oxygen.

AC-16. Explain the indications, application, and treatment parameters for supplemental oxygen administration for emergency situations.

AC-17. Administer supplemental oxygen with adjuncts (eg, non-rebreather mask, nasal cannula).

AC-18. Assess oxygen saturation using a pulse oximeter and interpret the results to guide decision making.

AC-19. Explain the proper procedures for managing external hemorrhage (eg, direct pressure, pressure points, tourniquets) and the rationale for use of each.

AC-20. Select and use the appropriate procedure for managing external hemorrhage.

AC-21. Explain aseptic or sterile techniques, approved sanitation methods, and universal precautions used in the cleaning, closure, and dressing of wounds.

AC-22. Select and use appropriate procedures for the cleaning, closure, and dressing of wounds, identifying when referral is necessary.

AC-23. Use cervical stabilization devices and techniques that are appropriate to the circumstances of an injury.

AC-24. Demonstrate proper positioning and immobilization of a patient with a suspected spinal cord injury.

AC-25. Perform patient transfer techniques for suspected head and spine injuries utilizing supine log roll, prone log roll with push, prone log roll with pull, and lift-and-slide techniques.

AC-26. Select the appropriate spine board, including long board or short board, and use appropriate immobilization techniques based on the circumstance of the patient's injury.

AC-27. Explain the role of core body temperature in differentiating between exertional heat stroke, hyponatremia, and head injury.

AC-28. Differentiate the different methods for assessing core body temperature.

AC-29. Assess core body temperature using a rectal probe.

AC-30. Explain the role of rapid full body cooling in the emergency management of exertional heat stroke.

AC-31. Assist the patient in the use of a nebulizer treatment for an asthmatic attack.

AC-32. Determine when use of a metered-dose inhaler is warranted based on a patient's condition.

AC-33. Instruct a patient in the use of a meter-dosed inhaler in the presence of asthma-related bronchospasm.

AC-34. Explain the importance of monitoring a patient following a head injury, including the role of obtaining clearance from a physician before further patient participation.

AC-35. Demonstrate the use of an auto-injectable epinephrine in the management of allergic anaphylaxis. Decide when auto-injectable epinephrine use is warranted based on a patient's condition.

AC-36. Identify the signs, symptoms, interventions and, when appropriate, the return-to-participation criteria for:

AC-36a. sudden cardiac arrest

AC-36b. brain injury including concussion, subdural and epidural hematomas, second impact syndrome and skull fracture

- AC-36c.** cervical, thoracic, and lumbar spine trauma
- AC-36d.** heat illness including heat cramps, heat exhaustion, exertional heat stroke, and hyponatremia
- AC-36e.** exertional sickling associated with sickle cell trait
- AC-36f.** rhabdomyolysis
- AC-36g.** internal hemorrhage
- AC-36h.** diabetic emergencies including hypoglycemia and ketoacidosis
- AC-36i.** asthma attacks
- AC-36j.** systemic allergic reaction, including anaphylactic shock
- AC-36k.** epileptic and non-epileptic seizures
- AC-36l.** shock
- AC-36m.** hypothermia, frostbite
- AC-36n.** toxic drug overdoses
- AC-36o.** local allergic reaction

Immediate Musculoskeletal Management

- AC-37.** Select and apply appropriate splinting material to stabilize an injured body area.
- AC-38.** Apply appropriate immediate treatment to protect the injured area and minimize the effects of hypoxic and enzymatic injury.
- AC-39.** Select and implement the appropriate ambulatory aid based on the patient's injury and activity and participation restrictions.

Transportation

- AC-40.** Determine the proper transportation technique based on the patient's condition and findings of the immediate examination.
- AC-41.** Identify the criteria used in the decision-making process to transport the injured patient for further medical examination.
- AC-42.** Select and use the appropriate short-distance transportation methods, such as the log roll or lift and slide, for an injured patient in different situations.

Education

- AC-36.** Instruct the patient in home care and self-treatment plans for acute conditions.

Therapeutic Interventions (TI)

Athletic trainers assess the patient's status using clinician- and patient-oriented outcome measures. Based on this assessment and with consideration of the stage of healing and goals, a therapeutic intervention is designed to maximize the patient's participation and health-related quality of life.

A broad range of interventions, methods, techniques, equipment, activities using body movement, and medications are incorporated into this domain. These interventions are designed to enhance function by identifying, remediating, and preventing impairments and activity restrictions (functional limitations) to maximize participation. Rehabilitation is conducted in a wide variety of settings (eg, aquatic, clinic) with basic and contemporary equipment/modalities and on a wide range of patients with respect to age, overall health, and desired level of activity. Therapeutic interventions also include the use of prescription and nonprescription medications. For this reason, the athletic trainer needs to be knowledgeable about common prescription and nonprescription drug indications, adverse reactions, and interactions.

The competencies identified in this section should be considered in the context of the competencies identified in other content areas. For example, the knowledge and skills associated with the process of examination and

documentation, while applicable for this content area, are not included here.

Therapeutic interventions include:

- Techniques to reduce pain
- Techniques to limit edema
- Techniques to restore joint mobility
- Techniques to restore muscle extensibility
- Techniques to restore neuromuscular function
- Exercises to improve strength, endurance, speed, and power
- Activities to improve balance, neuromuscular control, coordination, and agility
- Exercises to improve gait, posture, and body mechanics
- Exercises to improve cardiorespiratory fitness
- Functional exercises (eg, sports- or activity-specific)
- Exercises which comprise a home-based program
- Aquatic therapy
- Therapeutic modalities
 - superficial thermal agents (eg, hot pack, ice)
 - electrical stimulation
 - therapeutic ultrasound
 - diathermy
 - therapeutic low-level laser and light therapy
 - mechanical modalities
 - traction
 - intermittent compression
 - continuous passive motion
 - massage
 - biofeedback
- Therapeutic medications (as guided by applicable state and federal law)

Knowledge and Skills

Physical Rehabilitation and Therapeutic Modalities

- TI-1.** Describe and differentiate the physiological and pathophysiological responses to inflammatory and non-inflammatory conditions and the influence of these responses on the design, implementation, and progression of a therapeutic intervention.
- TI-2.** Compare and contrast contemporary theories of pain perception and pain modulation.
- TI-3.** Differentiate between palliative and primary pain-control interventions.
- TI-4.** Analyze the impact of immobilization, inactivity, and mobilization on the body systems (eg, cardiovascular, pulmonary, musculoskeletal) and injury response.
- TI-5.** Compare and contrast the variations in the physiological response to injury and healing across the lifespan.
- TI-6.** Describe common surgical techniques, including interpretation of operative reports, and any resulting precautions, contraindications, and comorbidities that impact the selection and progression of a therapeutic intervention program.
- TI-7.** Identify patient- and clinician-oriented outcomes measures commonly used to recommend activity level, make return to play decisions, and maximize patient outcomes and progress in the treatment plan.
- TI-8.** Explain the theory and principles relating to expected physiological response(s) during and following therapeutic interventions.

- TI-9.** Describe the laws of physics that (1) underlay the application of thermal, mechanical, electromagnetic, and acoustic energy to the body and (2) form the foundation for the development of therapeutic interventions (eg, stress-strain, leverage, thermodynamics, energy transmission and attenuation, electricity).
- TI-10.** Integrate self-treatment into the intervention when appropriate, including instructing the patient regarding self-treatment plans.
- TI-11.** Design therapeutic interventions to meet specified treatment goals.
- TI-11a.** Assess the patient to identify indications, contraindications, and precautions applicable to the intended intervention.
- TI-11b.** Position and prepare the patient for various therapeutic interventions.
- TI-11c.** Describe the expected effects and potential adverse reactions to the patient.
- TI-11d.** Instruct the patient how to correctly perform rehabilitative exercises.
- TI-11e.** Apply the intervention, using parameters appropriate to the intended outcome.
- TI-11f.** Reassess the patient to determine the immediate impact of the intervention.
- TI-12.** Use the results of on-going clinical examinations to determine when a therapeutic intervention should be progressed, regressed or discontinued.
- TI-13.** Describe the relationship between the application of therapeutic modalities and the incorporation of active and passive exercise and/or manual therapies, including therapeutic massage, myofascial techniques, and muscle energy techniques.
- TI-14.** Describe the use of joint mobilization in pain reduction and restoration of joint mobility.
- TI-15.** Perform joint mobilization techniques as indicated by examination findings.
- TI-16.** Fabricate and apply taping, wrapping, supportive, and protective devices to facilitate return to function.
- TI-17.** Analyze gait and select appropriate instruction and correction strategies to facilitate safe progression to functional gait pattern.
- TI-18.** Explain the relationship between posture, biomechanics, and ergonomics and the need to address these components in a therapeutic intervention.
- TI-19.** Identify manufacturer, institutional, state, and/or federal standards that influence approval, operation, inspection, maintenance and safe application of therapeutic modalities and rehabilitation equipment.
- TI-20.** Inspect therapeutic equipment and the treatment environment for potential safety hazards.

Therapeutic Medications

- TI-21.** Explain the federal, state, and local laws, regulations and procedures for the proper storage, disposal, transportation, dispensing (administering where appropriate), and documentation associated with commonly used prescription and nonprescription medications.
- TI-22.** Identify and use appropriate pharmaceutical terminology for management of medications, inventory control, and reporting of pharmacological agents commonly used in an athletic training facility.
- TI-23.** Use an electronic drug resource to locate and identify indications, contraindications, precautions, and adverse reactions for common prescription and nonprescription medications.
- TI-24.** Explain the major concepts of pharmacokinetics and the influence that exercise might have on these processes.
- TI-25.** Explain the concepts related to bioavailability, half-life, and bioequivalence (including the relationship between generic and brand name drugs) and their relevance to the patient, the choice of medication, and the dosing schedule.
- TI-26.** Explain the pharmacodynamic principles of receptor theory, dose-response relationship, placebo effect, potency, and drug interactions as they relate to the mechanism of drug action and therapeutic

effectiveness.

TI-27. Describe the common routes used to administer medications and their advantages and disadvantages.

TI-28. Properly assist and/or instruct the patient in the proper use, cleaning, and storage of drugs commonly delivered by metered dose inhalers, nebulizers, insulin pumps, or other parenteral routes as prescribed by the physician.

TI-29. Describe how common pharmacological agents influence pain and healing and their influence on various therapeutic interventions.

TI-30. Explain the general therapeutic strategy, including drug categories used for treatment, desired treatment outcomes, and typical duration of treatment, for the following common diseases and conditions: asthma, diabetes, hypertension, infections, depression, GERD, allergies, pain, inflammation, and the common cold.

TI-31. Optimize therapeutic outcomes by communicating with patients and/or appropriate healthcare professionals regarding compliance issues, drug interactions, adverse drug reactions, and sub-optimal therapy.

Psychosocial Strategies and Referral (PS)

Athletic trainers must be able to recognize clients/patients exhibiting abnormal social, emotional, and mental behaviors. Coupled with recognition is the ability to intervene and refer these individuals as necessary. Additionally, athletic trainers appreciate the role of mental health in injury and recovery and use interventions to optimize the connection between mental health and restoration of participation.

Knowledge and Skills

Theoretical Background

PS-1. Describe the basic principles of personality traits, trait anxiety, locus of control, intrinsic and extrinsic motivation, and patient and social environment interactions as they affect patient interactions.

PS-2. Explain the theoretical background of psychological and emotional responses to injury and forced inactivity (eg, cognitive appraisal model, stress response model).

PS-3. Describe how psychosocial considerations affect clinical decision-making related to return to activity or participation (eg, motivation, confidence).

PS-4. Summarize and demonstrate the basic processes of effective interpersonal and cross-cultural communication as it relates to interactions with patients and others involved in the healthcare of the patient.

PS-5. Summarize contemporary theory regarding educating patients of all ages and cultural backgrounds to effect behavioral change.

Psychosocial Strategies

PS-6. Explain the importance of educating patients, parents/guardians, and others regarding the condition in order to enhance the psychological and emotional well-being of the patient.

PS-7. Describe the psychological techniques (eg, goal setting, imagery, positive self-talk, relaxation/anxiety reduction) that the athletic trainer can use to motivate the patient during injury rehabilitation and return to activity processes.

PS-8. Describe psychological interventions (eg, goal setting, motivational techniques) that are used to facilitate a patient's physical, psychological, and return to activity needs.

PS-9. Describe the psychosocial factors that affect persistent pain sensation and perception (eg, emotional state, locus of control, psychodynamic issues, sociocultural factors, personal values and beliefs) and identify multidisciplinary approaches for assisting patients with persistent pain.

PS-10. Explain the impact of sociocultural issues that influence the nature and quality of healthcare received

(eg, cultural competence, access to appropriate healthcare providers, uninsured/underinsured patients, insurance) and formulate and implement strategies to maximize client/patient outcomes.

Mental Health and Referral

PS-11. Describe the role of various mental healthcare providers (eg, psychiatrists, psychologists, counselors, social workers) that may comprise a mental health referral network.

PS-12. Identify and refer clients/patients in need of mental healthcare.

PS-13. Identify and describe the basic signs and symptoms of mental health disorders (eg, psychosis, neurosis; sub-clinical mood disturbances (eg, depression, anxiety); and personal/social conflict (eg, adjustment to injury, family problems, academic or emotional stress, personal assault or abuse, sexual assault or harassment) that may indicate the need for referral to a mental healthcare professional.

PS-14. Describe the psychological and sociocultural factors associated with common eating disorders.

PS-15. Identify the symptoms and clinical signs of substance misuse/abuse, the psychological and sociocultural factors associated with such misuse/abuse, its impact on an individual's health and physical performance, and the need for proper referral to a healthcare professional.

PS-16. Formulate a referral for an individual with a suspected mental health or substance abuse problem.

PS-17. Describe the psychological and emotional responses to a catastrophic event, the potential need for a psychological intervention and a referral plan for all parties affected by the event.

PS-18. Provide appropriate education regarding the condition and plan of care to the patient and appropriately discuss with others as needed and as appropriate to protect patient privacy.

Healthcare Administration (HA)

Athletic trainers function within the context of a complex healthcare system. Integral to this function is an understanding of risk management, healthcare delivery mechanisms, insurance, reimbursement, documentation, patient privacy, and facility management.

Knowledge and Skills

HA-1. Describe the role of the athletic trainer and the delivery of athletic training services within the context of the broader healthcare system.

HA-2. Describe the impact of organizational structure on the daily operations of a healthcare facility.

HA-3. Describe the role of strategic planning as a means to assess and promote organizational improvement.

HA-4. Describe the conceptual components of developing and implementing a basic business plan.

HA-5. Describe basic healthcare facility design for a safe and efficient clinical practice setting.

HA-6. Explain components of the budgeting process including: purchasing, requisition, bidding, request for proposal, inventory, profit and loss ratios, budget balancing, and return on investments.

HA-7. Assess the value of the services provided by an athletic trainer (eg, return on investment).

HA-8. Develop operational and capital budgets based on a supply inventory and needs assessment; including capital equipment, salaries and benefits, trending analysis, facility cost, and common expenses.

HA-9. Identify the components that comprise a comprehensive medical record.

HA-10. Identify and explain the statutes that regulate the privacy and security of medical records.

HA-11. Use contemporary documentation strategies to effectively communicate with patients, physicians, insurers, colleagues, administrators, and parents or family members.

HA-12. Use a comprehensive patient-file management system for appropriate chart documentation, risk

management, outcomes, and billing.

HA-13. Define state and federal statutes that regulate employment practices.

HA-14. Describe principles of recruiting, selecting, hiring, and evaluating employees.

HA-15. Identify principles of recruiting, selecting, employing, and contracting with physicians and other medical and healthcare personnel in the deployment of healthcare services.

HA-16. Describe federal and state infection control regulations and guidelines, including universal precautions as mandated by the Workplace Safety and Health Administration (OSHA), for the prevention, exposure, and control of infectious diseases, and discuss how they apply to the practicing of athletic training.

HA-17. Identify key regulatory agencies that impact healthcare facilities, and describe their function in the regulation and overall delivery of healthcare.

HA-18. Describe the basic legal principles that apply to an athletic trainer's responsibilities.

HA-19. Identify components of a risk management plan to include security, fire, electrical and equipment safety, emergency preparedness, and hazardous chemicals.

HA-20. Create a risk management plan and develop associated policies and procedures to guide the operation of athletic training services within a healthcare facility to include issues related to security, fire, electrical and equipment safety, emergency preparedness, and hazardous chemicals.

HA-21. Develop comprehensive, venue-specific emergency action plans for the care of acutely injured or ill individuals.

HA-22. Develop specific plans of care for common potential emergent conditions (eg, asthma attack, diabetic emergency).

HA-23. Identify and explain the recommended or required components of a pre-participation examination based on appropriate authorities' rules, guidelines, and/or recommendations.

HA-24. Describe a plan to access appropriate medical assistance on disease control, notify medical authorities, and prevent disease epidemics.

HA-25. Describe common health insurance models, insurance contract negotiation, and the common benefits and exclusions identified within these models.

HA-26. Describe the criteria for selection, common features, specifications, and required documentation needed for secondary, excess accident, and catastrophic health insurance.

HA-27. Describe the concepts and procedures for revenue generation and reimbursement.

HA-28. Understand the role of and use diagnostic and procedural codes when documenting patient care.

HA-29. Explain typical administrative policies and procedures that govern first aid and emergency care.

HA-30. Describe the role and functions of various healthcare providers and protocols that govern the referral of patients to these professionals.

Professional Development and Responsibility (PD)

The provision of high quality patient care requires that the athletic trainer maintain current competence in the constantly changing world of healthcare. Athletic trainers must also embrace the need to practice within the limits of state and national regulation using moral and ethical judgment. As members of a broader healthcare community, athletic trainers work collaboratively with other healthcare providers and refer clients/patients when such referral is warranted.

Knowledge and Skills

PD-1. Summarize the athletic training profession's history and development and how current athletic training practice has been influenced by its past.

PD-2. Describe the role and function of the National Athletic Trainers' Association and its influence on

the profession.

PD-3. Describe the role and function of the Board of Certification, the Commission on Accreditation of Athletic Training Education, and state regulatory boards.

PD-4. Explain the role and function of state athletic training practice acts and registration, licensure, and certification agencies including (1) basic legislative processes for the implementation of practice acts, (2) rationale for state regulations that govern the practice of athletic training, and (3) consequences of violating federal and state regulatory acts.

PD-5. Access, analyze, and differentiate between the essential documents of the national governing, credentialing and regulatory bodies, including, but not limited to, the *NATA Athletic Training Educational Competencies*, the *BOC Standards of Professional Practice*, the *NATA Code of Ethics*, and the *BOC Role Delineation Study/Practice Analysis*.

PD-6. Explain the process of obtaining and maintaining necessary local, state, and national credentials for the practice of athletic training.

PD-7. Perform a self-assessment of professional competence and create a professional development plan to maintain necessary credentials and promote life-long learning strategies.

PD-8. Differentiate among the preparation, scopes of practice, and roles and responsibilities of healthcare providers and other professionals with whom athletic trainers interact.

PD-9. Specify when referral of a client/patient to another healthcare provider is warranted and formulate and implement strategies to facilitate that referral.

PD-10. Develop healthcare educational programming specific to the target audience (eg, clients/patients, healthcare personnel, administrators, parents, general public).

PD-11. Identify strategies to educate colleagues, students, patients, the public, and other healthcare professionals about the roles, responsibilities, academic preparation, and scope of practice of athletic trainers.

PD-12. Identify mechanisms by which athletic trainers influence state and federal healthcare regulation.

Clinical Integration Proficiencies (CIP)

The clinical integration proficiencies (CIPs) represent the synthesis and integration of knowledge, skills, and clinical decision-making into actual client/patient care. The CIPs have been reorganized into this section (rather than at the end of each content area) to reflect their global nature. For example, therapeutic interventions do not occur in isolation from physical assessment.

In most cases, assessment of the CIPs should occur when the student is engaged in real client/patient care and may be necessarily assessed over multiple interactions with the same client/patient. In a few instances, assessment may require simulated scenarios, as certain circumstances may occur rarely but are nevertheless important to the well-prepared practitioner.

The incorporation of evidence-based practice principles into care provided by athletic trainers is central to optimizing outcomes. Assessment of student competence in the CIPs should reflect the extent to which these principles are integrated. Assessment of students in the use of Foundational Behaviors in the context of real patient care should also occur.

Prevention & Health Promotion

CIP-1. Administer testing procedures to obtain baseline data regarding a client's/patient's level of

general health (including nutritional habits, physical activity status, and body composition). Use this data to design, implement, evaluate, and modify a program specific to the performance and health goals of the patient. This will include instructing the patient in the proper performance of the activities, recognizing the warning signs and symptoms of potential injuries and illnesses that may occur, and explaining the role of exercise in maintaining overall health and the prevention of diseases. Incorporate contemporary behavioral change theory when educating clients/patients and associated individuals to effect health-related change. Refer to other medical and health professionals when appropriate.

CIP-2. Select, apply, evaluate, and modify appropriate standard protective equipment, taping, wrapping, bracing, padding, and other custom devices for the client/patient in order to prevent and/or minimize the risk of injury to the head, torso, spine, and extremities for safe participation in sport or other physical activity.

CIP-3. Develop, implement, and monitor prevention strategies for at-risk individuals (eg, persons with asthma or diabetes, persons with a previous history of heat illness, persons with sickle cell trait) and large groups to allow safe physical activity in a variety of conditions. This includes obtaining and interpreting data related to potentially hazardous environmental conditions, monitoring body functions (eg, blood glucose, peak expiratory flow, hydration status), and making the appropriate recommendations for individual safety and activity status.

Clinical Assessment & Assessment/Acute Care/Therapeutic Intervention

CIP-4. Perform a comprehensive clinical examination of a patient with an upper extremity, lower extremity, head, neck, thorax, and/or spine injury or condition. This exam should incorporate clinical reasoning in the selection of assessment procedures and interpretation of findings in order to formulate a differential assessment and/or assessment, determine underlying impairments, and identify activity limitations and participation restrictions. Based on the assessment data and consideration of the patient's goals, provide the appropriate initial care and establish overall treatment goals. Create and implement a therapeutic intervention that targets these treatment goals to include, as appropriate, therapeutic modalities, medications (with physician involvement as necessary), and rehabilitative techniques and procedures. Integrate and interpret various forms of standardized documentation including both patient-oriented and clinician-oriented outcomes measures to recommend activity level, make return to play decisions, and maximize patient outcomes and progress in the treatment plan.

CIP-5. Perform a comprehensive clinical examination of a patient with a common illness/condition that includes appropriate clinical reasoning in the selection of assessment procedures and interpretation of history and physical examination findings in order to formulate a differential assessment and/or assessment. Based on the history, physical examination, and patient goals, implement the appropriate treatment strategy to include medications (with physician involvement as necessary). Determine whether patient referral is needed, and identify potential restrictions in activities and participation. Formulate and communicate the appropriate return to activity protocol.

CIP-6. Clinically evaluate and manage a patient with an emergency injury or condition to include the assessment of vital signs and level of consciousness, activation of emergency action plan, secondary assessment, assessment, and provision of the appropriate emergency care (eg, CPR, AED, supplemental oxygen, airway adjunct, splinting, spinal stabilization, control of bleeding).

Psychosocial Strategies and Referral

CIP-7. Select and integrate appropriate psychosocial techniques into a patient's treatment or rehabilitation program to enhance rehabilitation adherence, return to play, and overall outcomes. This includes, but is not limited to, verbal motivation, goal setting, imagery, pain management, self-talk, and/or relaxation.

CIP-8. Demonstrate the ability to recognize and refer at-risk individuals and individuals with psychosocial disorders and/or mental health emergencies. As a member of the management team, develop an appropriate management plan (including recommendations for patient safety and activity status) that establishes a professional helping relationship with the patient, ensures interactive support and education, and encourages the athletic trainer's role of informed patient advocate in a manner consistent with current practice guidelines.

Healthcare Administration

CIP-9. Utilize documentation strategies to effectively communicate with patients, physicians, insurers, colleagues, administrators, and parents or family members while using appropriate terminology and complying with statutes that regulate privacy of medical records. This includes using a comprehensive patient-file management system (including diagnostic and procedural codes) for appropriate chart documentation, risk management, outcomes, and billing.

Chapter 7 Appendix_NATA & APTA Settlement

The National Athletic Trainers' Association, Inc. And

The American Physical Therapy Association

JOINT STATEMENT ON COOPERATION

The National Athletic Trainers' Association, Inc. ("NATA") and the American Physical Therapy Association ("APTA") have agreed to settle their legal dispute pending in the United States District Court for the Northern District of Texas, Dallas Division.

This Joint Statement on Cooperation arises from an effort by both Associations to work together to resolve differences through dialogue and mutual cooperation.

The Associations

The NATA is the international professional membership association for athletic trainers ("ATs"). The NATA has more than 30,000 members. The NATA's mission is to enhance the quality of health care provided by certified athletic trainers and to advance the athletic training profession. Information about athletic training and the education, licensure, and certification of ATs is available on the NATA website, www.nata.org.

The APTA is the national association for licensed physical therapists ("PTs") and physical therapy assistants ("PTAs"). It has over 70,000 members. The mission of the APTA is to further the role of the physical therapy profession in the prevention, diagnosis, and treatment of movement dysfunction and the

enhancement of the physical health and functional abilities of members of the public. Information about physical therapy and the education, licensure, and specialist certification of PTs is available on the APTA website, www.apta.org.

The Litigation

The members of the NATA and the APTA share a dedication to improving the health, functioning, and well-being of their patients and clients. Over the years, these two organizations have cooperated at times on certain public policy issues, but they have also disagreed on other issues.

In early 2008, the NATA sued the APTA, alleging it had violated the antitrust laws and seeking injunctive and other relief. The APTA denies any factual basis for these allegations and contends NATA's claims lack any merit. The federal district court in Dallas denied APTA's request to dismiss the case, finding that NATA could maintain claims for declaratory and injunctive relief. The Court also stated, however, that NATA could not seek damages from APTA. Instead of continuing the legal dispute, the two sides have decided to enter into a settlement agreement and to issue this Joint Statement.

Qualifications of Physical Therapists and Athletic trainers

The APTA and the NATA acknowledge that physical therapists and athletic trainers are health care professionals authorized to provide interventions within their scope of practice as defined by applicable state law and, within that scope, to the extent of their individual educational/training competencies. The scopes of practice of the two professions overlap to some extent. The education, qualifications and training of the two professions are different. The patients and conditions treated and interventions performed by PTs and ATs are often different. The professional education of both physical therapists and athletic trainers calls for competence in some forms of manual therapy, on which physical therapists and athletic trainers are tested by their certification/licensure examinations.

Non-Exclusive Procedures

The APTA's longstanding position is that the term "physical therapy" should be used to characterize health care services only when those services are provided by a licensed PT or by a PTA acting under the direction and supervision of a licensed PT. The NATA recognizes that CPT codes 97001 and 97002 (physical therapy evaluation and physical therapy re-evaluation) are used to denote services provided by a licensed PT.

The NATA's position is that the term "athletic training" should be used to characterize health care services only when those services are provided by a licensed and/or certified athletic trainer. The APTA recognizes that CPT codes 97005 and 97006 (athletic training evaluation and athletic training re-evaluation) are used to denote services provided by a licensed and/or certified AT.

The NATA and the APTA both believe that the current Physical Medicine and Rehabilitation codes other than 97001, 97002, 97005 and 97006 are not exclusive to any one particular health care profession.

PTs are not the "exclusive" providers of manual therapy. Further, depending on individual qualifications and certification and state regulations, ATs are qualified to perform certain forms of manual therapy.

Legal Scope of Practice

The APTA and the NATA agree their members should practice within their respective licensed or regulated scopes of practice. The NATA and the APTA agree that the appropriate legal scope of practice for their respective members, as for any profession, is determined by legislatures and regulatory bodies. Both NATA and APTA agree it is a priority to protect the public from harm, and to compete ethically in the marketplace.

Access to Continuing Education

With respect to continuing education programs offered by PTs or PTAs, the APTA has agreed to clarify its existing policy on continuing clinical education for non-- PTs. The policy adopted by the APTA House of Delegates applies only to PTs and PTAs and says that they should identify the target audiences for continuing education programs and that course materials should indicate course content is not intended for use by participants outside the scope of their license or regulation. The policy also says that, in order to protect the public, physical therapists should not teach elements of physical therapy patient/client management to "individuals who are not licensed or otherwise regulated."

Because athletic trainers in the vast majority of states are licensed or otherwise regulated, this part of the policy does not apply to teaching ATs in those states where they are licensed or otherwise regulated. The House of Delegates policy does not require PTs to make determinations concerning the scope of practice of individuals who practice other professions.

The APTA and several APTA Chapters are continuing education providers approved by the National Athletic Trainers' Association Board of Certification, Inc. ("BOC"). The Associations agree that PTs and ATs are free to refrain from teaching certain content to any audience if they determine that the content is not appropriate for the audience, including, but not limited to, because someone lacks the requisite education and training.

The Professions

NATA states: ATs gain professional qualifications after: 1) graduation from a bachelor's or master's academic program accredited by the Commission on Accreditation of Athletic Training Education ("CAATE"); and 2) passing a national exam administered by the BOC, the independent credentialing body for the athletic training profession. The BOC certification program is accredited by the National Commission for Certifying Agencies ("NCCA"). Certified athletic trainers are required to obtain 75 hours of continuing education every three years. Athletic trainers are licensed, registered, and/or exempt from licensure in the statutes of 47 states. Athletic trainers serve patients through injury and illness prevention, clinical evaluation and diagnosis, appropriate interventions, management, and treatment of emergency, acute and chronic medical conditions, and rehabilitation.

- APTA states: PTs gain professional qualifications by: 1) graduating from a master's or doctoral academic program accredited by the Commission on Accreditation in Physical

Therapy Education, which is recognized by the U.S. Department of Education; and 2) passing the national physical therapy licensure examination administered by the Federation of State Boards of Physical Therapy ("FSBPT") for all fifty states. PTs provide clinical examination and evaluation, diagnoses, appropriate interventions and rehabilitation to individuals of all ages who have impairments, limitations in activities or participation, or changes in physical function or health status resulting from injury, disease, or other causes, and they provide prevention and health promotion and wellness services.

Truth in Advocacy

The NATA and the APTA agree that decisions about which professionals should be deemed qualified to provide particular services and which services provided by such professionals should be reimbursed by insurers and public programs are issues to be decided in the marketplace by consumers, insurers, federal and state legislatures, policy makers, and, in the case of athletic trainers (as dictated by state law), physicians. Thus, each Association and its individual members are free, like other citizens, to make truthful statements and to express their opinions about their professions or about others within the health care marketplace. That being said, statements made by the APTA and the NATA about PTs and ATs should not mislead consumers, insurers, physicians, or the public, and neither organization will make false or deceptive statements, including false or deceptive statements about qualifications of PTs or ATs. Specifically, neither organization will make false or misleading statements referring to PTs or ATs as "non-qualified," "unqualified," "not qualified," or any variation of these terms. Nothing in this Joint Statement shall be construed to impede the rights of either the APTA or the NATA to conduct all lawful activities, and make all lawful statements. Members and representatives of the APTA and the NATA should respect the rights, knowledge and skills of the other profession and compete honestly and ethically in the health care marketplace.

Mutual Cooperation

The APTA and the NATA acknowledge many PTs and ATs have established productive, mutually respectful and collaborative relationships. Such cooperation should be fostered. The APTA and the NATA will commit, at the level of the two national associations, to confer periodically on issues of common interest and discuss inter-professional disputes.

Inter-Association Communication

The NATA and the APTA agree to candidly discuss areas of friction between the organizations and identify issues on which the organizations can lawfully and appropriately work together to improve the health, functioning, and well-being of the communities they serve, including their patients and clients.

This Joint Statement is hereby signed on this 22ND day of September, 2009

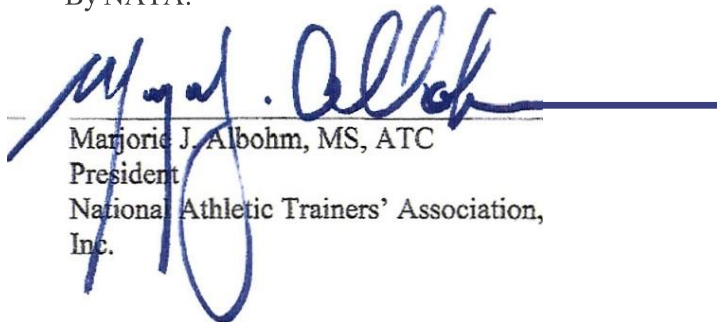
R. Scott Ward

President of APTA

Signature did not copy over to this document. Please view in original via link below.

<http://www.apta.org/uploadedFiles/APTAorg/Media/Releases/APTA/2009/NATAJointStatement.pdf>

By NATA:



Marjorie J. Albohm, MS, ATC
President
National Athletic Trainers' Association,
Inc.