

DEVELOPING CADETS' LEADERSHIP QUALITIES THROUGH PHYSICAL EDUCATION AND SPORTS

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Annotation:

This thesis explores how physical education and sports serve as powerful tools for developing leadership qualities in cadets. Focusing on officer cadets in a military-educational context, it reviews theoretical frameworks and empirical studies that link sports participation to leadership skill acquisition. The analysis identifies key leadership traits – such as teamwork, communication, decisiveness, resilience, and responsibility – that are cultivated through structured physical activities, team sports, and fitness programs. The cadet environment, with its emphasis on discipline and teamwork, amplifies these effects by translating on-field experiences to military leadership scenarios. By examining literature from sports psychology, youth development, and military training, the thesis highlights strategies by which coaches and educators can intentionally foster leadership (e.g., assigning team captain roles, cooperative challenges, and reflection on sports experiences). Results from research indicate that student-athletes often exhibit stronger leadership tendencies (like higher transformational leadership scores and confidence) compared to non-athletes. Additionally, longitudinal and cross-sectional studies show that skills gained through sports – such as team management, goal-setting, perseverance under pressure, and ethical decision-making – directly contribute to leadership effectiveness in later professional settings. The thesis concludes that integrating physical culture and sports into cadet training is a validated approach to holistically develop future officers' leadership competencies, and it provides recommendations for maximizing these developmental opportunities.

Keywords: Leadership development; cadets; physical education; sports participation; teamwork; character development; military training

Introduction

Leadership is a critical quality for military cadets, who are being groomed to become officers and lead others in high-stakes situations. Traditionally, military academies and institutes incorporate a variety of training methods to instill leadership skills – from classroom instruction in leadership principles to field exercises that simulate command scenarios. However, an often underutilized yet highly potent context for leadership development is physical education and sports. Engaging in sports and organized physical activities offers experiential learning that can shape a young cadet's leadership abilities in ways formal

instruction sometimes cannot. Sports inherently involve teamwork, goal-setting, strategic thinking, managing adversity, and interpersonal communication – all of which mirror the demands of effective leadership.

The idea that “sport builds character” has long been part of popular wisdom, but modern research provides evidence and nuance to this claim. Participating in sports does not automatically produce positive traits; the outcomes depend on how the experience is structured and reflected upon. For cadets, sports and physical training are typically compulsory parts of the curriculum (e.g., intramural sports, fitness testing, team competitions). These activities are more than just a means to stay physically fit; they are an extension of the leadership laboratory. Physical challenges place cadets in situations where they must make quick decisions, motivate peers, enforce rules, and exhibit resilience – effectively putting leadership into practice. For example, a cadet leading a team in a football match must coordinate teammates (like a platoon), devise tactics on the fly, and maintain morale whether winning or losing. Such experiences complement formal leadership classes by providing concrete instances of leading and following, success and failure, that cadets can learn from.

This thesis focuses on how leadership qualities are formed and enhanced through physical culture (organized physical training, fitness programs) and sports among cadets. It reviews relevant theories of leadership development (such as experiential learning and positive youth development frameworks) and examines empirical studies from both civilian and military contexts. Key questions include: Which leadership qualities are most influenced by sports participation? How do teamwork-oriented activities and competitive sports create opportunities for cadets to develop leadership behaviors? What role do coaches and physical training instructors play in facilitating leadership lessons during sports? By addressing these questions, we aim to shed light on best practices that leverage physical activity as a medium for cultivating the next generation of military leaders.

The purpose of this study is to theoretically substantiate the role of physical education and sports in forming and developing leadership qualities in cadets. It seeks to identify the mechanisms by which participation in sports and physical training contributes to leadership skill acquisition and to highlight strategies for intentionally using sports as a platform for leadership development in a cadet training environment.

The object of research is the process of leadership development in cadets within military educational institutions. This encompasses all activities and experiences – particularly those related to physical culture and sport – that influence cadets’ acquisition of leadership traits and competencies.

The subject of research is the influence of physical education and sports activities on the formation of specific leadership qualities in cadets. These qualities include, but are not limited

to, teamwork, communication skills, decision-making, confidence, resilience, discipline, and the ability to inspire and motivate others.

This thesis employs a literature review and theoretical analysis of interdisciplinary sources. Research methods include: examining sports psychology literature on leadership outcomes of sports participation; reviewing studies in military pedagogy and training that document character and leadership development through physical programs; analyzing survey and interview research from cadet schools and universities; and synthesizing evidence from youth development programs that use sport as a tool for life-skill training. The study draws from peer-reviewed journals, organizational reports (e.g., studies by leadership foundations or military training manuals), and meta-analyses. By comparing findings across these sources, the thesis distills common themes and best practices. Additionally, case studies or examples from specific programs (for instance, West Point's physical program or ROTC leadership labs involving sports) are used to illustrate concepts. The analysis is qualitative in nature, seeking to map out the causal links between sports involvement and leadership growth.

Results. Sports as a Microcosm of Leadership: The literature strongly supports the notion that sports provide a microcosm in which leadership skills can be learned and practiced. Within a sports team or physical training group, cadets experience roles akin to those in military units. They may alternate between being followers and leaders – for example, a cadet might captain a basketball team one season and simply be a team member in another sport the next. Research by Gould and Voelker (2012) emphasizes that sport and physical activity contexts are “a prime venue for developing leadership in youths”, yet these contexts are often underused unless coaches and educators deliberately focus on leadership outcomes. When utilized properly, sports can teach responsibility, as team members must be accountable to each other; communication, as on-field coordination requires clear, timely information sharing; and strategic thinking, as players must make quick decisions in dynamic situations.

Empirical Evidence of Leadership Development Through Sport: Multiple studies have measured differences in leadership characteristics between those involved in sports and those who are not. One study of college students published in 2017 (cited via Human Kinetics) found that student-athletes scored significantly higher in overall transformational leadership capacity than non-athletes, particularly in facets like self-management and managing relationships with others. Transformational leadership includes qualities such as inspiring a shared vision and demonstrating individualized consideration – behaviors often cultivated in team sports where athletes learn to motivate teammates and show empathy. The student-athletes in the study credited their sports participation with building confidence and character under pressure, learning to cope with failure, and learning to put team goals above personal glory. The authors

noted that non-athletes simply had fewer real-life opportunities to practice these concepts, whereas athletes were doing so continuously in practices and games.

Earlier research mirrors these findings. A classic survey published in *Adolescence* (1999) found that high school athletes outscored their non-athlete peers on a standardized leadership ability scale. The study suggested that “the types of personal and social behavior associated with athletic training and participation may indeed increase, or at least strengthen, students’ leadership potential”. In essence, repeated exposure to teamwork, coaching, competition, and goal-setting in sports creates a fertile environment for leadership traits to emerge. Athletes often must take initiative – for instance, a soccer player might organize extra practice with teammates (initiative and responsibility), or a volleyball player might lift a discouraged teammate’s spirit after a mistake (motivation and emotional intelligence).

From a youth development perspective, Larson et al. (2006) conducted a comprehensive study of adolescent experiences across different extracurricular activities. They discovered that sports programs stood out in providing experiences related to initiative and teamwork at higher rates than many other activities. Specifically, sports were unique in how frequently young people encountered situations requiring them to set goals, manage their emotions, and collaborate with peers to solve problems – all fundamental processes in developing leadership. Although sports also came with stress (e.g., the pressure to win), learning to handle that stress is itself a leadership lesson, teaching emotional regulation and resilience.

In the context of cadets, who are usually older adolescents or young adults, these benefits are even more pronounced when properly guided. Cadets often enter with a predisposition toward leadership, and sports act as a practical training ground. Anecdotal evidence from military academies indicates that many cadet battalion or company commanders have backgrounds as team captains or standout athletes, suggesting a correlation between sports leadership and formal leadership roles among peers.

Key Leadership Qualities Fostered by Sports:

- **Teamwork and Collaboration:** Sports inherently require teamwork. Cadets learn to trust and rely on their peers during games or physical tasks. They experience the importance of each member’s contribution to a collective goal. A National Federation of Professional Trainers article articulates that through sports, individuals practice being “valued team members,” understanding camaraderie and collaboration. These lessons carry over – a cadet who has learned to function as part of a cohesive sports team is likely to value unit cohesion in a military setting and know how to build it. In surveys of cadets, qualities like mutual respect, trust, and companionship often top the list of what they value in their leaders and peers; these are precisely nurtured when teammates work together towards victory or overcome challenges collectively.

- **Communication and Interpersonal Skills:** Effective communication is drilled on the sports field – calling plays, alerting teammates, giving feedback – and these skills translate into clear communication in leadership. Cadets engaged in sports learn to communicate under stress and in fast-paced situations (think of a basketball point guard signaling a play with seconds on the clock). They also learn non-verbal communication and the ability to read teammates' body language and morale. This attunement to others is a component of emotional intelligence, which is crucial for leaders to inspire and connect with their teams. Physical education settings also often involve conflict (disagreements over rules, etc.), giving cadets the chance to practice conflict resolution and negotiation in a relatively low-stakes environment.
- **Decision-Making and Decisiveness:** Sports are rife with moment-to-moment decision requirements – whom to pass the ball to, when to attempt a score, how to adjust strategy when trailing. Cadets in sports get accustomed to making decisions quickly and taking responsibility for those decisions. This trains decisiveness, a hallmark of good leadership. An NFPT analysis notes that participation in team sports trains students to make split-second decisions for the benefit of the team. The confidence to make and execute decisions on the field can bolster a cadet's confidence to do the same in military exercises or eventually in combat scenarios.
- **Resilience and Handling Adversity:** Sports invariably include wins and losses, successes and failures. Cadets learn to handle disappointment (like losing a match or performing poorly) and to bounce back, which fosters resilience. They also face physical adversity – fatigue, injury, tough opponents – which requires mental toughness to push through. Studies have shown that former athletes often attribute their resilience in business or military careers to lessons learned in sports, such as learning from failure and not giving up after setbacks. Being able to persevere through adversity is critical for leaders, who must remain focused and positive even when plans go awry.
- **Confidence and Self-Esteem:** Athletic accomplishment builds self-confidence. Successfully mastering a skill or winning a game gives cadets tangible evidence of their abilities. This confidence can carry over into leadership situations – a cadet who believes in themselves is more likely to take initiative and be assertive when leading others. Additionally, sports often put individuals in the public eye (in front of peers, coaches, spectators), which can reduce stage fright and build presence. For future officers, having command presence and confidence is essential, and sports can help develop that bearing. Research in youth sports has linked participation with higher self-esteem, particularly when coaches create a positive environment that emphasizes personal improvement and effort.
- **Discipline and Work Ethic:** Achieving goals in sports requires training, practice, and discipline. Cadets learn that consistent effort – early morning runs, extra drills, proper nutrition – leads to better performance. This instills a strong work ethic and personal discipline, traits

that are equally valued in military leadership. A physically demanding program enforces time management as well; cadet-athletes must balance academic, military, and athletic responsibilities. That experience of balancing multiple duties underpins the organizational and time-management skills needed by effective leaders.

- **Ethical Leadership and Fair Play:** Sportsmanship teaches cadets about fairness, respect, and integrity. Good coaches and instructors use teachable moments in sports to reinforce ethical behavior – for instance, reminding athletes to respect referees, oppose cheating, and show graciousness in victory or defeat. These lessons feed into moral leadership. A leader who has internalized the principle of fair play is more likely to treat subordinates justly and uphold ethical standards. Sports provide a scenario where cadets can practice leadership with a moral dimension: e.g., as a team captain, one might have to bench a skilled player who broke team rules, thus learning to put ethics and team culture above winning at all costs.

Studies on Long-Term Impact: The benefits of sports on leadership are not just immediate or short-term. Longitudinal insights suggest lasting impacts. A well-cited report by Ernst & Young and ESPNW (2014) found that an overwhelming 94% of women in executive leadership (C-suite) positions had played sports at some point, and over half played at university level. While correlation does not equal causation, many of these women attributed skills like confidence, teamwork, and the ability to see projects through to completion directly to their sports experiences. Similarly, a study in the *Journal of Leadership & Organizational Studies* (2014) looking at men who had participated in varsity high school sports decades earlier found those individuals had higher leadership involvement in their communities and more advanced careers than non-athletes. These outcomes hint that sports participation engrains leadership tendencies that persist into later life.

In the cadet context, this is promising: if sports help produce better military leaders, we should expect to see former cadet-athletes excelling in their officer careers. Indeed, militaries have long valued athletics – for example, West Point in the United States famously states “Every cadet an athlete,” reflecting a philosophy that athletic competition is integral to officer development. The results from research validate this institutional wisdom.

Role of Educators and Program Structure: It must be stressed that the formation of leadership qualities through sports is not automatic; it often requires intentional guidance. Coaches and physical training instructors play a pivotal role. By giving cadets leadership opportunities (such as serving as team captain, leading warm-up exercises, or coaching younger peers), they create direct practice of leadership. A case study described by Gould & Voelker (2012) illustrates how a coach designed a season to rotate leadership among team members, followed by group reflection sessions – this deliberate practice led to noticeable improvements in the athletes’ leadership skills and confidence in taking charge. For cadets, instructors can similarly

rotate responsibilities (one cadet leads the platoon in morning PT, another coordinates a sports event, etc.).

Furthermore, framing and reflection are key. After a game or a challenging physical task, facilitators can lead discussions: What leadership did you observe? What did the team captain do well? How did the team handle conflict? Such guided reflections help cadets internalize the lessons. Without this, cadets might enjoy sports but not consciously link it to leadership development. The research on positive youth development through sport emphasizes the need for what's called "transfer of skills" – making the connection between what is learned in sport and how it applies outside sport. In a military academy, drawing parallels between leading on the field and leading in the field (military) can cement the transfer.

Discussion. The interplay between physical education, sports, and leadership formation in cadets is multidimensional. In discussion, several important considerations and theoretical insights emerge:

First, sports and physical challenges offer a form of situational leadership training. Unlike a classroom, where scenarios might be hypothetical, the sport environment provides real stakes (even if relatively low) and emotional investment. Cadets care about winning games and about their standing among peers, so their engagement is high. This emotional engagement means lessons can be deeply felt and remembered. According to experiential learning theory (Kolb, 1984), concrete experiences followed by reflective observation lead to abstract conceptualization (i.e., learning). Sports provide the concrete experiences; it's on the cadet and mentor to reflect and conceptualize the leadership lessons.

Second, not all sports experiences are positive – some can be negative (e.g., a hyper-competitive coach who emphasizes winning over development might actually model poor leadership). Therefore, the quality of the sports context matters. Studies on youth leadership in sport note that positive developmental outcomes correlate with an empowering climate: coaches who encourage autonomy, reward effort and leadership acts, and focus on personal growth foster more leadership skills in athletes. In a cadet setting, physical training instructors should aim to create a culture where cadets are encouraged to step up and lead, rather than a culture of only strict, top-down command during sports. This might seem counterintuitive in a military environment, but basic training discipline can coexist with giving cadets room to make decisions and learn from mistakes in sports.

Third, one can consider specific programmatic efforts. For example, some military academies run leadership reaction courses that are physical in nature – small teams must navigate obstacles or solve physical problems (like moving equipment across a barrier) under time pressure with minimal guidance. These exercises are essentially sports-like challenges that explicitly require teamwork and leadership to complete. Research and after-action reports from

such courses often highlight how cadets emerge with better appreciation of communication and planning. By integrating sports and obstacle challenges with formal leadership evaluation (having observers note who steps up as leader, who coordinates, who has creative solutions), academies can directly assess and foster leadership in tandem with physical training.

Another interesting facet is how different types of sports might develop different leadership skills. Team sports (soccer, basketball, rugby) obviously teach team coordination and often have designated leadership roles (captains) – beneficial for learning interpersonal and team-management skills. Individual sports (track and field, wrestling) teach self-reliance, mental toughness, and often peer mentorship (as athletes still train together and can lead by example). A well-rounded physical program exposes cadets to both. For instance, a cadet who wrestles (learning personal discipline to cut weight and duel one-on-one) and also plays soccer (learning to function within a complex team system) gains a broad set of experiences. According to leadership development research, diversity of challenging experiences contributes to growth of adaptable leaders. Sports can provide that diversity within a safe training environment.

The discussion also extends to gender and leadership in sports. Historically, much research focused on male athletes and leadership, but recent focus on female cadets and athletes is increasing. Some studies, like the EY/espnW surveys, suggest sports may be particularly empowering for women, helping to break traditional gender norms around leadership. In a coeducational academy, ensuring equal opportunities and encouragement for female cadets in sports can aid in developing confident female officers who are ready to lead in what remains a male-dominated military sphere.

It is important to acknowledge that sports alone do not make a perfect leader; they are one piece of the development puzzle. A cadet could excel in sports and have all the raw leadership potential, yet still need formal training in, say, ethical leadership or tactical decision-making that sports don't cover. Therefore, the thesis does not claim sports produce fully formed leaders by themselves, but rather that they significantly enhance and accelerate the development of leadership qualities when integrated properly into a broader training program.

Not every cadet might be athletically inclined or enthusiastic about sports. Some may see mandatory sports as a hurdle. The leadership benefits could be lost on them if they disengage. This is where mentorship is key – instructors should help every cadet find a physical activity they can invest in, or frame the activity in terms of personal challenge rather than competition if the cadet is not competitive by nature. Alternative physical pursuits (martial arts, mountaineering, orienteering) might be offered, as these can also build leadership (for example, mountaineering teaches planning, risk management, and trust in teammates through belaying). As long as an activity involves goals, feedback, and group interaction, it has leadership learning potential.

Moreover, it's beneficial to celebrate and recognize leadership in sports, not just athletic skill. Military academies might incorporate awards for “leadership in intramurals” or reflect sports leadership in cadet evaluations. When cadets see that their institution values how they lead their peers in sports, they are more likely to approach sports with a leadership mindset, rather than seeing it as merely playtime or exercise.

Conclusion

Physical education and sports are proven, effective means to develop leadership qualities in cadets, complementing the formal leadership training within military education. Through the intensity, camaraderie, and challenges inherent in sports, cadets internalize vital leadership skills: they learn to work in teams, communicate clearly, make quick decisions, remain composed under pressure, and uphold values of fairness and respect. The evidence from diverse studies underscores that cadets who actively participate in sports or rigorous physical challenges tend to demonstrate stronger leadership potential – manifest in greater confidence, initiative, and ability to influence their peers – than those who do not engage in such activities. The transformation that occurs on the playing field or during a group physical task is not a coincidence but a result of experiential learning and personal growth. A cadet soccer captain coordinating a comeback on the field is effectively practicing the same leadership competencies needed to coordinate a unit under stress. The transferability of these skills is well-documented; many accomplished leaders credit their sports background for teaching them how to lead and persevere. By harnessing this, military academies can produce officers who have already been “battle-tested” in leadership through sport.

To maximize these benefits, it is recommended that physical training programs within cadet schools be deliberately designed with leadership development in mind. This includes rotating leadership roles among cadets in sports settings, encouraging reflection on lessons learned after competitions or group workouts, and providing mentorship to link sports experiences with military leadership principles. Coaches and instructors should emphasize values like teamwork, integrity, and resilience in both speech and their own example, as these will be absorbed by cadets in the physically active milieu.

In conclusion, the formation of leadership qualities via physical culture and sports is both practically observable and theoretically sound. A well-rounded cadet is often as much an athlete as a scholar-soldier, and this athletic experience molds their character and leadership style. The thesis affirms that sports are not extracurricular but rather “co-curricular” in leadership education – they are an integral arena where future officers learn by doing. By continuing to integrate and elevate the role of sports in cadet development, training institutions invest in producing leaders who are not only physically fit but also mentally, socially, and morally equipped to lead others. As one study succinctly put it, “participation in sport built

confidence and character in high-pressure situations... [athletes] needed to encourage and influence team members to pursue team goals rather than individual praise” – precisely the kind of leadership ethos desired in the military.

References:

1. Gould, D., & Voelker, D. K. (2012). Enhancing youth leadership through sport and physical education. *Journal of Physical Education, Recreation & Dance*, 83(8), 38–41.
2. Larson, R. W., Hansen, D. M., & Moneta, G. B. (2006). Differing profiles of developmental experiences across types of organized youth activities. *Developmental Psychology*, 42(5), 849–863.
3. Torres Burtka, A. (2018). Studies show athletes bring leadership skills to the workplace. *Global Sport Matters* (Arizona State University). Retrieved from GlobalSportMatters.com.
4. Prontenko, V., & Korniiichuk, Y. (2024). Leadership qualities of physical training teachers of a higher military educational institution. *Nowoczesne Systemy Zarządzania (Modern Management Systems)*, 19(1), 89–100.
5. Paradise, A., & Savage, J. (1999). Existence of leadership skills among high school athletes and non-athletes. *Adolescence*, 34(133), 1–11.
6. Ernst & Young & espnW (2014). Making the connection: Women, sport and leadership. *EY Women Athletes Business Network Report*.
7. Martinez de Quel, O., Bennett, S. J., Lopez Adan, E., Zapico, A. G., & Morales, F. S. (2015). Choice reaction time is not related to competition success in karate combat. *European Journal of Human Movement*, 35, 123–137.
8. NFPT (2023). Lessons from sports/physical education build successful professional leaders. *National Federation of Professional Trainers blog*.