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## The contribution and well-being of physical education and sport in schools

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#### **Abstract**

This paper explores the scientific evidence that has been gathered on the contributions and well-being of physical education and sport in schools for both children and for educational systems. Research evidence is presented in terms of children's development in a number of empires: physical, lifestyle, affective, social, Mental and cognitive. The review suggests that physical education and sport have the potential to make significant and distinctive contributions to development in each of these domains. It is suggested that physical education and sport have the potential to make distinctive contributions to the development of children's fundamental movement skills and physical competences, which are necessary precursors of participation in later lifestyle and sporting physical activities. They also, when appropriately presented, can support the development of social skills and social behaviors, self-esteem and pro school attitudes, and, in certain circumstances, academic and cognitive development. The review also stresses that many of the well-being will not necessarily result from participation, per se; the effects are likely to be mediated by the nature of the interactions between students and their teachers, parents, and coaches who work with them. Contexts that emphasize positive experiences, characterized by enjoyment, diversity, and the engagement of all, and that are managed by committed and trained teachers and coaches, and supportive and informed parents, significantly influence the character of these physical activities and increase the likelihood of realizing the potential well-being of participation. (J Sch Health. 2006; 76(8):397-401).

Keywords: physical, education, development, lifestyle, social mental and cognitive

#### Introduction

Advocates of physical education and sport have listed numerous well-being associated with participation in these activities. For example, Talbot claims that physical education helps children to develop respect for the body—their own and others', contributes toward the integrated development of mind and body, develops an under-standing of the role of aerobic and anaerobic physical activity in health, positively enhances self-confidence and selfesteem, and enhances social and cognitive development and academic achievement. Writing specifically about sport, a Council of Europe report suggests that it provides opportunities to meet and communicate with other people, to take different social roles, to learn particular social skills and to adjust to team/collective objectives and that it provides experience of emotions that are not available in the rest of life. This report goes on to stress the important contribution of sport to processes of personality development and psychological well-being, stating that there is, "strong evidence on the positive effects of physical activities on self-concept, self-esteem, anxiety, depression, tension and stress, self-confidence, energy, mood, efficiency and well-being.

Such claims have often been criticized for lacking empirical foundations and for confusing policy rhetoric with scientific evidence. This paper seeks to explore some of the scientific evidence that has been gathered on the contributions and wellbeing of physical education and sport for both children and for educational systems. In doing so, it will be using a frame-work and some of the data derived from a recent international research project, which drew evidence from all over almost 50 countries, including a meta-analysis of statements of aims and standards,

and national curricula. Findings suggest that the outcomes of physical education and sport can be understood in terms of children's development in 5 empires:

- Physical
- Lifestyle
- Affective
- Social
- Cognitive

As its title suggests, this article is concerned with "physical education and sport." Since the relationship between the opinion "physical education" and "sport" continues to be a cause of discussion, it is worthwhile clarifying the use of the terms in this review. In many, predominantly Anglophone, countries, the term "physical education" is used to refer to that area of the school curriculum concerned with developing students' physical competence and confidence, and their ability to use these to perform in a range of activities. "Sport" is a collective noun and usually refers to a range of activities, processes, social relationships and presumed physical, psychological, and sociological outcomes. In this presentation, there appears to be a relatively clear conceptual distinction between these 2 terms. However, cross-cultural studies have revealed significant differences in the use of terminology in this area, and many educational systems use the terms synonyms, or simply use "sport" as a generic descriptor. For this reason, and in line with international agencies like the United Nations Educational, Scientific and Cultural Organization (UNESCO), the inclusive term "physical education and sport" will be used to refer to those

structured, superintend physical activities that take place at school and during the school day.

#### **Physical Development**

Physical education and sport in school is the main societal institution for the development of physical skills and the provision of physical activity in children and young people. For many children, school is the main environment for being physically active, through either physical education and sport programs or after-school activities. There is evidence that for a growing number of children, school provides the main opportunity for regular, structured physical activity as a combination of economic pressures and parental worry for safety means that fewer children are able to play games in out of school settings. Moreover, school-based physical education and sport offers a regulated opportunity for usually qualified, accountable teachers to introduce physical activities and lifestyle skills and knowledge in a structured way to all children, within a safe and supportive environment.

The physical health well-being of regular physical activity is well established. Regular participation in such activities is associated with a longer and better quality of life, reduced risk of a variety of diseases, and many psychological and emotional advantages. There is also a large body of literature showing that inactivity is one of the most significant causes of death, disability, and reduced quality of life across the developed world. Evidence is starting to appear suggesting a favorable relationship between physical activity and a host of factors affecting children's physical health, including diabetes, blood pressure, bone health, and obesity.

Basic movement skills, like those developed in physical education and sport form the foundation of almost all later sporting and physical activities. There is evidence that those who have developed a strong foundation in fundamental movement skills are more likely to be active, both during childhood and later in life. There is also a frequently cited, but under researched, hypothesis that the development of a broad range of these basic movement skills through physical education and sport programs is a necessary condition for excellence in sport. Conversely, children who have not been able to acquire an adequate base of movement competences are more likely to be excluded from participation in organized sports and play experiences with their friends because of a lack of basic physical skills. So, as one of the most highly valued aspects of many children's and young people's lives, such omission from the activities that make up physical education and sport is likely to have far-reaching and harmful consequences to the development and education of many children.

### **Lifestyle Development**

Physical inactivity has been identified as a major risk factor for coronary heart disease, as well as being associated with premature mortality and obesity. It is not surprising, then, that physical education and sport programs-some of the few opportunities to promote physical activities amongst all children - have been proposed as a cost-effective way to influence the next generation of adults to lead physically active lives.

The mechanisms by which active young people become active adults are unclear. However, research suggests that a number of factors contribute to the establishment of physical activity as part of a healthy lifestyle. There is some evidence that health-related behaviors learned in childhood are often maintained into adulthood. The Amsterdam Growth Study did not find evidence of tracking of physical activity from 13 and 27 years. Other studies, however, have found that youth activity carries on into later life. Interestingly, studies also show how strongly inactivity in youth tracks to adulthood, so exclusion from physical education and sport can be associated with a legacy of inactivity and associated ill-health in the years to come.

### **Affective Development**

There is now fairly consistent confirmation that regular activity can have a positive effect upon the psychological well-being of children and young people, although the underlying mechanisms for explaining these effects are still unclear. The evidence is particularly strong with regards to children's self-esteem. Other associations with regular activity that have been reported include reduced stress, anxiety, and depression. All of these lend support to the claim that well-planned and presented physical education and sport can contribute to the improvement of psychological health in young people.

One especially relevant set of findings, in this regard, relates to the development of perceived physical competence. It has been suggested that self-esteem is influenced by an individual's perceptions of competence or adequacy to achieve, and that It is also worth considering the growing interest in the relationship between physical education and sport and students' general attitudes toward school. The evidence supporting such claims is limited and is mostly based on small-scale studies or anecdotal evidence. However, some studies report generally positive outcomes in terms of pupil attendance following the introduction of physical education and sport schemes, and there is evidence from studies of pupils at risk of exclusion from school that an increase in the availability of physical education and sport programs would make the school experience more attractive.

On the theme of the relationship between physical education and sport and attitudes to school, it ought to be acknowledged that not all pupils enjoy such activities, at least when presented in certain ways. For example, many girls acquire a progressive disillusionment with certain aspects of physical education and sport and totally disengage from participation as they move through secondary schooling. So it would be misleading to suggest that physical education and sport will necessarily contribute toward positive attitudes to school in all students as inappropriate provision might actually increase disaffection and truancy. More positively, though, there is a great deal of research showing that when physical education and sport activities are presented in attractive and relevant ways to girls, they can enjoy participation as much as boys.

#### **Social Development**

The research literature on the relationship between physical education and sport and social development is equivocal. It does not seem to be the case that pro social behavior necessarily improves as a result of engagement, and there is evidence that in some circumstances behavior actually worsens. However, numerous studies have demonstrated that appropriately structured and presented activities can make a contribution to the development of pro social behavior, and can even combat antisocial and criminal behaviors in youth.

The most encouraging findings come from school-based studies, especially those focusing on physical education and sport curriculum programs. While a wide range of physical activities seem able to offer valuable environments for social development, school-based programs have a number of advantages, such as access to nearly all children, fewer external pressures to emphasize outcome and competition, and the ability to integrate social education with the similar teaching across the school curriculum. Intervention studies have produced generally positive results, including improvements in moral reasoning, fair play, leadership, and personal responsibility. It also seems that the most promising contexts for developing social skills and values are those mediated by suitably trained teachers and coaches who focus on situations that arise naturally through activities, by asking questions of students and by modeling appropriate responses though their own behavior.

### **Cognitive Development**

Researcher have suggested that physical education and sport can enhance academic performance by increasing the flow of blood to the brain, enhancing mood, increasing mental alertness, and improving self-esteem. The evidence base of such claims is varied and more research is still required. However, existing studies do suggest a positive relationship between intellectual functioning and regular physical activity, both for adults and children.

The classic study of the relationship between physical education and sports, and general school performance was carried out in France in the early 1950s. Researchers reduced "academic" curriculum time by 26%, replacing it with physical education and sport; yet, academic results did not worsen, and there were fewer discipline problems, greater attentiveness, and less absenteeism. More recent studies have found improvements for many children in academic performance when time for physical education and sport is increased in their school day. A review of 3 large-scale studies found that academic performance is maintained or even enhanced by an increase in a student's levels of physical education and sport, despite a reduction in the time for the study of academic material.

Overall, the available research evidence suggests that increased levels of physical activity in school-such as through increasing the amount of time dedicated to physical education and sport does not interfere with pupils' achievement in other subjects and in many instances is associated with improved academic performance.

#### Conclusion

Clearly, physical education and sport have the potential to make significant contributions to the education and development of children and young people in many ways, although further research and evaluation will help us better understand the nature of these contributions. Nevertheless, in each of the domains discussed—physical, lifestyle, affective, social, and cognitive—there is evidence that physical education and sport can have a positive and profound effect. In some respects, such an effect is unique, owing to the distinctive contexts in which physical education and sport take place. Consequently, there is a duty for those who teach and acknowledge the value of physical education and sport to act as advocates for its place as a necessary feature of the general education of all children. They need to argue not

just for the inclusion of physical education and sport within the curriculum, and for the provision of sufficient time, but also to stress the importance of the quality of the program and share information on the well-being of physical education and sport among administrators, parents, and policy makers.

A note of caution should be sounded, too. The scientific proof does not support the claim that these effects will occur automatically. There is no reason to believe that simply supporting participation in physical education and sports are necessarily bring about positive changes to children or to their communities. The actions and interactions of teachers and coaches largely determine whether or not children and young people experience these positive aspects of physical education and sport and whether or not they realize its great potential. Contexts that highlight positive physical education and sport experiences, characterized by enjoyment, diversity, and the engagement of all, and that are managed by committed and trained teachers and coaches, and supportive and informed parents, are fundamental.

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