THE SCHOOL-FAMILY ALLIANCE TO CREATE INCLUSIVE PRESCRIPTIONS: PHYSICAL EDUCATION AS A MEANS OF EMPOWERMENT FOR EDUCATIONAL AND TRAINING STRATEGIES

L'ALLEANZA SCUOLA-FAMIGLIA PER LA REALIZZAZIONE DI PROGETTAZIONI INCLUSIVE: L'EDUCAZIONE FISICA COME MEZZO DI MIGLIORAMENTO DELLE STRATEGIE EDUCATIVE E FORMATIVE

Francesca Latino

University of Bari "Aldo Moro", Bari, Italy. francesca.latino@uniba.it

Abstract

The co-responsibility between school and parents to improve the educational design gives the physical education a key role as means for empowerment of educational strategies shared both by scholastic institutions and by families to establish a curricular and extracurricular continuum. Physical education is involved in the process of full inclusion process and is seen as a strategy to improve the educational development of the youngest. Considering the evidence available in the literature, we concluded that the educational values of physical education could offer a decisive contribution to the education and formation of young people. Thus, the purpose of this report is to suggest that physical education provides multiple routes to enhance lifelong habits for learning and for positive behaviors, in order to respond to multiple educational needs of the youngest.

La corresponsabilità tra Scuola e genitori per il miglioramento della progettualità educativa riconosce un ruolo di fondamentale importanza alla disciplina dell'educazione fisica quale mezzo di miglioramento di strategie educative condivise tra istituzioni scolastiche e famiglia, al fine di stabilire un continuum curricolare ed extracurriculare. L'educazione fisica è coinvolta nel processo di piena inclusione ed è vista come una strategia per migliorare lo sviluppo educativo dei più giovani.

Considerando le evidenze disponibili in letteratura, abbiamo concluso che i valori educativi dell'educazione fisica potrebbero offrire un contributo decisivo all'educazione e alla formazione dei giovani. Pertanto, scopo di questo lavoro è quello di evidenziare come attraverso l'educazione fisica si possano realizzare molteplici percorsi per migliorare le abitudini di apprendimento e i comportamenti positivi, al fine di rispondere ai molteplici bisogni educativi dei più giovani.

Keywords: educational alliance, inclusiveness, physical education. **Parole chiave:** alleanza educativa, inclusività, educazione fisica.

Introduction

To grow is an individual event rooted in the relationship with the others and we cannot talk about the grow of the development of human potential or the centrality of the person considering him as detached from a system of relationship whose quality and richness is the fundamental asset of one's growth (MIUR, 2009). The collaboration of an entire educational society, prominently school and family, is needed to educate a child. In the last decades, education research has drawn up various proposals to describe the educational continuum between the process of

skill acquisition at school and the activities carried out at home and in the family (Epstein, 1990; Pallisera, 2018). An example is the ecological model by Bronfenbrenner (1986), based on promoting the intersections between the two education ecosystems. Working from those baselines, Epstein (2018) introduced terms such as school-like families and family-like schools to represent the educational integrated and cooperative approach, in which families are a support for strengthening school skills and schools are a support for offering an affective and caring relationship. To build participative contexts it is necessary to establish and to plan with clarity the moments of discussion, of confrontation, of collaboration and of cooperation, each in its own role. A school open to the families and as inclusive as possible must carefully take care of the fragile relationship among parents and relatives, pupils, school and out-of-school staff with a view to building tangible and meaningful alliances (Martínez Agut, Angeles Ull, & Aznar Minguet, 2014). The link between participation and inclusion is very close: including also means break down barriers and encourage the growth and the active participation of all.

The plurality of educational interventions, the multiplicity of the professional components at stake and the affective and emotional charge gravitating to the pupils with disabilities needs some explicit understanding of the method, of the objectives, of the expected outcome, leaning on a series of educational alliances, based on codes of trust and responsibility (Zappella, & Li, 2019). Only an educational alliance investing all the main figures gravitating around people with disability allow them to grow through relationship (Sanders, & Epstein, 2005). That approach requires availability to comprehension of different ways to interact, to communicate and to be. It requires to accept the weaknesses and fragility the encounter with the disability can bring out. It is structured in a shared environment overcoming the gap between self and the other. It requires availability to 'put yourself in the shoes of others', seeking an access to his inner self to feel his moods from within so as to encourage empathetic listening (Rule, & Kyle, 2008). Consequently, the relationship between school and family must be based on collaboration, through a solid educational alliance in order to support the pupil's development process. The family, indeed, is an essential reference point for correct inclusion: source of valuable information and, actually, it is the place where the continuity between school and out-of-school is achieved (Cosmin Blândul, 2012).

In this light, Physical Education (PE) is considered bearers of an outstanding educational potential, if it is moved by a real pedagogical approach. The educational values of PE are fundamental, and they could offer a decisive contribution to the education and formation of young people. In fact, PE: (i) supports the processes of development of motor, cognitive, emotive, and relational skills conveying values such as respect of oneself and others, equal opportunities and solidarity; (ii) helps to enhance their own potential, admitting limitations; (iii) encourages the confrontation with oneself and the others (Janssen, & LeBlanc, 2010).

Several studies show how skills acquired in sport are successfully transferable to other cultural contexts, from very early childhood. In addition to spreading the values of solidarity, of loyalty, of respect for the person and the rules, funding principles of a healthy society, sport and play are extraordinary tools to build skills transferable in other life contexts (Catalano, Berglund, Ryan, Lonczak, & Hawkins, 2004). The organization of a competition, the definition of the roles, the determination of the times, the playing strategies are all intellectual skills

transferable in any context of life and represent abilities that everyone should be able to put into practice to make decisions or prepare a program of action (Gould e Carson, 2008; Gould, Collins, Lauer, & Chung, 2007). The activities of movement are occasions to favour creativity and emotional investment because the educative perspective is to support the processes leading to autonomy, to the grow in self-esteem, to the capacity for initiative and to self-awareness at various levels, both physical and emotional (Colella, 2011).

Today more than ever, the activation of inclusive designs through the contribution offered by physical education is essential to implement a strong alliance between School and family to activate a positive contamination of universal and timeless values of motor activities as the structuring of society requires a cultural and social pact that guarantees in all formal and informal environments the acquisition of skills that could transform the lives of children: movement is life, movement educates and builds the character, defines our choices and the collective future, the first step to success (Vaquero-Solís, Tapia-Serrano, Hortigüela-Alcalá, Sierra-Díaz, & Sánchez-Miguel, 2021). It is for this reason that the educational movement cannot be to the advantage of a few, as the aggregative moments it can express often become a lifeline for many young people. Moreover, it is widely acknowledged that PE during childhood may be important for cognitive and brain health (Singh et al., 2019). A great deal of scientific research published during the last decade has confirmed that PE is positively associated with academic achievement among school-aged youth (Castelli et al., 2014; Donnelly et al., 2016; Sibley & Etnier, 2003; Singh et al., 2019; Vazou, Pesce, Lakes, & Smiley-Oyen, 2016).

In this context, acting through an inclusive teaching allows to enhance and capitalize the individual differences present in all pupils, with particular attention to those situations where such differences create substantial barriers to learning and to social participation. In fact, it has long ceased to be considered an access line only for students with disabilities or with special educational needs, qualifying itself as a quality teaching for all. We can increasingly consider it as a style of teaching, a daily didactic and educational orientation (Casolo, 2011). Therefore, to promote the improvement of the quality of teaching-learning processes is of paramount importance in order to respond to multiple educational needs.

1. Physical education as educative and formative strategy

Physical education is involved in the process of full inclusion process and is seen as a strategy to improve the educational development of the youngest. To establish an educational continuum between the process of acquiring the school skills and activities that take place at home and in the family plays a key role in the implementation of a common and shared educational pact (Gurlui, 2014). PE is able to build a cooperative learning environment and develop virtuous peer learning processes. Several research have shown that participation in the physical activity practice induces the pupils to: (i) achieve better learning outcomes; (ii) promote greater self-regulation and general well-being; (iii) have more positive attitude towards the school and cultivate more ambition regarding their own growth and learning (Monacis, Colella, & Scarinci, 2020). In a perspective of an inclusive physical education is of fundamental importance to realize a methodological orientation aimed to organize the learning process with mixed teams, which include pupils with and without deficiencies (Wilkinson, & Penney, 2021).

Exploiting a model of psychoeducational intervention that integrates the educational aspect with the psychological and relational ones, through motor activities, it is possible to create the conditions for the person with disability to benefit from a learning context seen as growth and structuring of personality (search for autonomy). That primarily means to value the diversity of the pupil: the diversity is to be considered a resource and a wealth, in this sense collaboration and teamwork are essential for the growth of all (Hodge, Lieberman, & Murata, 2012). The deep and indissoluble relationships that bind corporeity to the formation of one's own individual and social identity and to the learning support a new holistic vision of motricity which cannot be reduced exclusively to a mere resultant of strictly biological processes, but it must be considered an expression of intelligence, affectivity and conscious self-determination. In a dynamic exchange with social behaviours and communication systems, the related to learning cognitive processes can be considered all cognitive mechanisms based on motricity (Weiss, 2011).

On the basis of that consideration, the didactic setting developed in the field of PE, especially in the first cycle, represents an excellent inclusive framework for the overall growth of pupils with and without disabilities. Besides, peers represent a resource of significant potential to facilitate the process of real inclusion of the pupil with disabilities both in the community and in the school. It is necessary a series of actions, both direct and indirect, that help to create an inclusive climate within the classroom where acceptance of diversity is taught as a value, in whatever form it appears (Young, & Sternod, 2011).

But there is more: disability is a condition that inevitably involves the family. The parents are carriers of a decisive knowledge for the planning of a truly inclusive teaching; for this reason, it is necessary to look at the educational relationship in a system perspective. Disability is not an individual condition, but the result of the relationship between the individual and the context. For the success of a path of inclusion is essential to recognize that all parties have a decisive weight (Penney, Jeanes, O'Connor, & Alfrey, 2018).

The National Guidelines 2012 confirm this vision of physical education that: "promotes the knowledge of self and its potential in the constant relationship with the environment, the others and the objects. [...] therefore, it is an occasion to promote cognitive, social, cultural and emotional experiences [...], promotes the value and respect of agreed and shared rules and the ethical values that are the basis of civil coexistence [...]. To participate in sports and motor activities means sharing group experiences with other people promoting the inclusion of pupils with various forms of diversity and enhancing the value of cooperation [...] through the motor dimension the pupil is facilitated in the expression of communicative requests and discomforts of various kinds that cannot always communicate with the verbal language" (MIUR, 2012).

Physical education has, therefore, an essential value in the inclusive design process because it is the most favourable environment not only to explore and try experiences related to body and motor action, complete expression of the person, but above all because it allows to involve the entire existential field of the pupil, creating strong bonds with all dimensions of personality, acting as *a trait de union* between school and family environment. The executive aspect of the motor action integrates itself with the value, semantic and relational aspects and motor behaviour becomes an expression of one's 'being' (Gomez Paloma, 2009).

2. Inclusive educational design for physical education

Inclusive teaching is the teaching of all that is based on customization and individualization through active, participative, constructive, and affective methodologies. The quality of inclusive teaching is determined by reflectivity and educational intentionality, by the search for motivations and alternative hypotheses, by the ability to change perspectives of meaning and to create transformative learning (Grenier, Patey, & Grenier-Burtis, 2022).

As claimed by Pennac (2008) "every student plays his instrument, there's nothing to do. The hard thing is to know our musicians well and find harmony. A good class is not a regiment that marches in step it is an orchestra that plays the same symphony". An inclusive teaching is therefore a didactic thought, planned and designed, from the beginning, on the basis of individual variables, able to be accessible to all students not only for some with special educational needs. To design in an inclusive way means thinking about forms of multimodal and multilevel personalised teaching, whatever the contents to convey, because each student faces learning at different levels and ways avoiding, thus, "route emergencies" that force a posteriori to modify what designed for an "ideal class", thus avoiding loss of effectiveness of the teaching action itself (Tanure Alves, van Munster, dos Santos Alves, & de Souza, 2022). A poorly designed and conducted didactics may run the risk of creating barriers to learning. Inclusive teaching is therefore intended as an innovative and flexible teaching style which facilitates the participation, the enhancement, and the educational success of all students. Inclusive teaching challenges teachers to develop a wide repertoire of teaching strategies considered effective not only for students with special needs but for all. That means every teacher can improve its effectiveness, first of all knowing and then using, monitoring and evaluating the best strategy in order to help students to become more effective students (Lundvall, & Fröberg, 2022). Numerous surveys show how essential are the meta cognitive and cooperative strategies, the development of social and emotional skills as well as the creation of a positive atmosphere in class to an inclusive type of teaching. Developing a broad repertoire of effective strategies is indispensable, provided that these reflect the knowledge of the characteristics and needs of the students and of environmental circumstances, as well as the professional and personal knowledge and skills of teachers (Meir, 2022).

In addition to the dimension of effectiveness in relation to choices and methodological-didactic actions to make, an inclusive teacher cannot forget the importance of relational and emotional skills. Numerous studies show how the appropriate mental attitude of the teachers, the emotional proximity and the ability to give appropriate and positive feedback to students are decisive elements for their academic success and for the creation of a good classroom climate (Makopoulou, Penney, Neville, & Thomas, 2022; van Doodewaard, & Knoppers, 2021). In an inclusive school context, the training of teachers in relation to their social and emotional skills can certainly not be underestimated. The quality of the class climate (made of relationships and emotional experiences) is crucial for the success of the students who learn best when they are in an emotionally safe and predictable environment, that motivates and stimulates them towards positive and inclusive goals.

3. The influence of Physical Education on Academic Performance: an inclusive perspective of development of individual potential.

Motor and sports activities unquestionably assume an educational value for all, able and disable, for the latest the game, the movement, the sport assume an added value, giving visibility to their physical and cognitive abilities (Fletcher, & Chróinín, 2022). Every form of educational intervention is born from the ability of the teacher to remove obstacles, focusing on functional capabilities and suggesting educational proposals suitable not adapted. It becomes necessary to identify the abilities of "the most fragile" to enhance his abilities within the class group; the consequent educational proposal will have to respond to the needs of pupils, taking into account the conditions of extreme heterogeneity of the classes aiming at the discovery of their body and their motor and communication skills to increase esteem and self-confidence (Vargas-Hernández, & Tovar Vergara, 2022). Starting from the premise that every student needs, indifferently, appropriate educational proposals and that, whatever the difficulty, the educator will have to create the conditions for reception and cooperation, that allow adequate participation in the activity, Physical education could act as a facilitator of school learning in subjects with special educational needs.

The most recent scientific research indicates that cognitive development occurs together with motor development (Pluck, Bravo Mancero, Ortiz Encalada, Urquizo Alcivar, Maldonado Gavilanez, & Chacon, 2020). For example, it has been shown that higher levels of motor coordination in students are related to better performance in academic competence (Guillamón, Cantó, & García, 2020). This growing body of literature suggests that PE may have a significant influence on academic performance through a variety of direct and indirect physiological, cognitive, emotional, and learning mechanisms (Santana, Azevedo, Cattuzzo, Hill, Andrade, & Prado, 2017; Sibley et al., 2003). Furthermore, evidence accrued over the past decade proposed that qualitative exercise interventions that are mentally challenging, lead to procedural and declarative skill development. Engaging in high amounts of PE constitutes an advantageous leisure activity for children, not only to improve their educational growth but also to build their self-concept and, finally, facilitate their academic performance. (Dapp, & Roebers, 2019).

Scientific findings indicate that a higher level of PA provides children opportunities to improve scholastic performance, and at the same time to promote a better physical and mental health (Alvarez-Bueno, Pesce, Cavero-Redondo, Sanchez-Lopez, Martinez-Hortelano, Martinez-Vizcaino, 2017). Moreover, in a recent review, Tomporowski, McCullick, Pendleton, and Pesce (2014), evaluated the effects of acute and chronic exercise training differentiating between those that adhere to a quantitative approach and based upon considerations of intensity and duration, and those that adhere to a qualitative approach and based on type and mental engagement. They concluded that both types of exercise, quantitative and qualitative, enhance the cognitive processing, highlighting the role of metacognitive processes and their regulation on children's behavior and academic performance.

Therefore, given data from reviews and reports, the investigation of the relationship between an active lifestyle and cognition in school-aged children have a key role in scholastic achievement.

Conclusions

The expansive and ever-growing literature provided by the present overview does support the view that physical education is beneficial for cognitive health and performance among school-aged youth. This could be achieved through various

forms of physical activity performed in the school context and with different characteristics.

Students should be given opportunities to engage in a wide variety of physical activities, also through the idea that physical and mental well-being can be achieved using different strategies from those to which we are accustomed. Accordingly, school-based interventions that provide increased physical activity may increase the odds of children and adolescents forming lifelong habits for learning and for positive behaviors. Thereby, it is desirable, in this respect, that schools offer the ideal opportunity for youth to meet the physical activity practice as an evidence-based strategy to improve the educational development and academic performance of the youngest.

References

Alvarez-Bueno, C., Pesce, C., Cavero-Redondo, I., Sanchez-Lopez, M., Martinez-Hortelano, J.A., & Martinez-Vizcaino, V., (2017). The effect of physical activity interventions on children's cognition and metacognition: a systematic review and meta-analysis. Journal of the American Academy of Child and Adolescent Psychiatry, 56(9):729-738.

Bronfenbrenner, U. Ecologia dello sviluppo umano. Il Mulino, 1986

Casolo, F. Didattica delle attività motorie per l'età evolutiva. Milano: Vita e Pensiero, 2011.

Castelli, D.M., Centeio, E.E., Hwang, J., Barcelona, J.M., Glowaki, E.M., Calvert, H.G., & Nicksic, H.M., (2014). VII. The history of physical activity and academic performance research: informing the future. Monographs of the Society for Research in Child Development, 79:119–48.

Catalano, R. F., Berglund, M. L., Ryan, J. A. M., Lonczak, H.S., & Hawkins, J. D. (2004). Positive youth development in the Unitesd States: research findings on evaluation of positive youth development programs. The annals of the American accademy, 591, 98-124.

Colella, D. (2011). Competenze motorie e stili di insegnamento in educazione fisica. Cqia Rivista, Numero III, 85-93.

Cosmin Blândul, V. (2012). The Partnership Between School and Family - Cooperation or Conflict? Procedia - Social and Behavioral Sciences, 47, 1501-1505. https://doi.org/10.1016/j.sbspro.2012.06.850.

Dapp, L.C., & Roebers, C.M., (2019). The Mediating Role of Self-Concept between Sports-Related Physical Activity and Mathematical Achievement in Fourth Graders. International Journal of Environmental Research and Public Health, 16, 2658; doi:10.3390/ijerph16152658

Donnelly, J.E., Hillman, C.H., Castelli, D., Etnier, J.L., Lee, S., Tomporowski, P., Lambourne, K., & Szabo-Reed, A.N., (2016). Physical activity, fitness, cognitive function, and academic achievement in children: A systematic review. Medicine & Science in Sports & Exercise, 48(6), 1197–1222.

Epstein, JL. School, family, and community partnerships: preparing educators and improving schools. Routledge, 2018.

Epstein, JL. (1990) School and Family Connections:, Marriage & Family Review, 15:1-2, 99 126, DOI: 10.1300/J002v15n01 06

Fletcher, T. & Chróinín, D. (2022) Pedagogical principles that support the prioritisation of meaningful experiences in physical education: conceptual and practical considerations, Physical Education and Sport Pedagogy, 27:5, 455-466, DOI: 10.1080/17408989.2021.1884672

Gomez Paloma, F. Corporeità, didattica e apprendimento: le nuove neuroscienze dell'educazione. Salerno: Edisud, 2009.

Gould, D., & Carson, S. (2008). Life skills development through sport: Current status and future directions. International review of sport and exercise psychology, 1, 58-78

Gould, D., Collins, K., Lauer, L., & Chung, Y. (2007). Coaching life skills through football: A study of award winning high school coaches. Journal of applied sport psychology,16-37.

Grenier, M., Patey, M.J., & Grenier-Burtis, M. (2022) Educating students with severe disabilities through an inclusive pedagogy in physical education. Sport, Education and Society 0:0, pages 1-14.

Guillamón, A.R., Cantó, E.G., & García, H.M., (2020). Motor coordination and academic performance in primary school students. Journal of Human Sport and Exercise, in press. doi:https://doi.org/10.14198/jhse.2021.162.02

Gurlui, I. (2014). Educational partnership in primary education. Procedia - Social and Behavioral Sciences 180: 606-611.

Hodge, S.R., Lieberman, L.J., & Murata, N.M. (2012). Essentials of Teaching Adapted Physical Education: Diversity, culture, and inclusion (1st ed.). Routledge. https://doi.org/10.4324/9781351217385

Indicazioni Nazionali per il Curricolo della scuola dell'infanzia e del primo ciclo d'istruzione. Numero speciale degli Annali della Pubblica Istruzione, Anno LXXXVIII, Le Monnier: Firenze.

Janssen, I., & LeBlanc, A.G., (2010). Systematic review of the health benefits of physical activity and fitness in school-aged children and youth. International Journal of Behavioral Nutrition and Physical Activity, 7:40.

Lundvall, S., & Fröberg, A. (2022) From individual to lifelong environmental processes: reframing health in physical education with the sustainable development goals. Sport, Education and Society 0:0, pages 1-13.

Makopoulou, K., Penney, D., Neville, R., & Thomas, G. (2022) What sort of 'inclusion' is Continuing Professional Development promoting? An investigation of a national CPD programme for inclusive physical education. International Journal of Inclusive Education 26:3, pages 245-262.

Martínez Agut, M.P., Angeles Ull, M. & Aznar Minguet, P. (2014) Education for sustainable development in early childhood education in Spain. Evolution, trends and proposals, European Early Childhood Education Research Journal, 22:2, 213-228, DOI: 10.1080/1350293X.2013.783299

Meir, D. (2022) A qualitative systematic review of critical pedagogy in Physical Education and Sport for Development: exploring a dialogical and critical future for Sport for Development pedagogy. Sport, Education and Society 27:3, pages 300-319.

MIUR, nota prot. n. 4274 del 4 agosto 2009 "Linee guida per l'integrazione scolastica degli alunni con disabilità".

Monacis, D., Colella, D., & Scarinci, A. (2020). Health education intervention in primary school: active breaks for the promotion of motor activity. Form@re - Open Journal Per La Formazione in Rete, 20(1), 336-355.

Pallisera, M., Vilà, M., Fullana, J., Castro, M., Puyaltó, C., & Díaz-Garolera, G. (2018) Proposals for improving the transition process of young people with intellectual disabilities in Spain: insights from focus groups of professionals, young people and their families, European Journal of Special Needs Education, 33:3, 287-301, DOI: 10.1080/08856257.2017.1306966

Pennac, D. Diario di scuola. Feltrinelli editorie, 2008.

Penney, D., Jeanes, R., O'Connor, J., & Alfrey, L. (2018) Re-theorising inclusion and reframing inclusive practice in physical education, International Journal of Inclusive Education, 22:10, 1062-1077, DOI: 10.1080/13603116.2017.1414888

Pluck, G., Bravo Mancero, P., Ortiz Encalada, P.A., Urquizo Alcivar, A.M., Maldonado Gavilanez, C.E., & Chacon, P., (2020). Differential associations of neurobehavioral traits and cognitive ability to academic achievement in higher education. Trends in Neuroscience and Education, 18, 100124.

Rule, A.C., & Kyle, P. (2008), Community-Building in a Diverse Setting, in "Early Childhood Education" Journal, Volume 36, Number 4/2008, Springer Netherlands Publisher.

Sanders, M., & Epstein, J. (2005), School-Family-Community Partnerships and Educational Change: International Perspectives, in "Extending Educational Change", Springer Netherlands, 203-208.

Santana, C.C.A., Azevedo, L.B., Cattuzzo, M.T., Hill, J.O., Andrade, L.P., & Prado, W.L., (2017). Physical fitness and academic performance in youth: A systematic review. Scandinavian Journal of Medicine & Science in Sports, 27(6), 579–603. http://doi.org/10.1111/sms.12773

Sibley, B.A., & Etnier, J.L., (2003). The relationship between physical activity and cognition in children: a meta-analysis. Pediatric Exercise Science, 15:243–56.

Singh, A.S., Saliasi, E., van den Berg, V., Uijtdewilligen, L., de Groot, R.H.M., Jolles, J., Andersen, L.B., Bailey, R., Chang, Y.K., Diamond, A., Ericsson, I., Etnier, J.L., Fedewa, A.L., Hillman, C.H., McMorris, T., Pesce, C., Pühse, U., Tomporowski, P.D., & Chinapaw, M.J.M., (2019). Effects of physical activity interventions on cognitive and academic performance in children and adolescents: a novel combination of a systematic review and recommendations from an expert panel. Sports Medine; 53:640–647

Tanure Alves, M.L., van Munster, M.A., dos Santos Alves, I., & de Souza, J.V. (2022) The 'normal' physical education classes: the ableism facing the inclusion of disabled students. Disability & Society 0:0, pages 1-16.

Tomporowski, P.D., McCullick, B., Pendleton, D.M., & Pesce, C., (2015). Exercise and children's cognition: The role of exercise characteristics and a place for metacognition. Journal of Sport and Health Science, 4(1) 47-55.

van Doodewaard, C., & Knoppers, A. (2021) Shaping students for inclusion: a gift and a project. Dutch preservice teachers and the complexity of inclusive teaching practices in physical education. International Journal of Inclusive Education 0:0, pages 1-16.

Vaquero-Solís, M., Tapia-Serrano, M.A., Hortigüela-Alcalá, D., Sierra-Díaz, M.J., & Sánchez-Miguel, P.A. (2021). Physical Activity and Quality of Life in High School Students: Proposals for Improving the Self-Concept in Physical Education. International Journal of Environmental Research and Public Health; 18(13):7185. https://doi.org/10.3390/ijerph18137185

Vargas-Hernández, J.G., & Tovar Vergara, M. (2022). Didactic Strategies for Meaningful Learning. Teaching Innovation in University Education, pages 33-51.

Vazou, S., Pesce, C., Lakes, K., & Smiley-Oyen, A., (2016). More than one road leads to Rome: a narrative review and meta-analysis of physical activity intervention effects on cognition in youth. International Journal of Sport and Exercise Psychology, 33:1–26.

Weiss, M.R. (2011) Teach the Children Well: A Holistic Approach to Developing Psychosocial and Behavioral Competencies Through Physical Education, Quest, 63:1, 55-65, DOI: 10.1080/00336297.2011.10483663

Wilkinson, S.D., & Penney, D. (2021) Mixed-ability grouping in physical education: investigating ability and inclusivity in pedagogic practice, Sport, Education and Society, DOI: 10.1080/13573322.2021.1919612

Young, S., & Sternod, B.M. (2011). Practicing Culturally Responsive Pedagogy in Physical Education. Journal of Modern Education Review, Vol. 1, No. 1, pp. 1-9.

Zappella, E., & Li, B. (2019) Empowering Persons with Intellectual Disabilities Through Work/School Alternation: a Positive Case study. Journal of Child and Adolescent Psychiatry 1:2, pages 1-14.