

The three dimension model for grassroots sport: An opportunity to transform coaches professional practice with the use of Olympic Values Education Program in Puerto Rico

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ABSTRACT

Sports in an important cultural expression in human society. In Puerto Rico has been a cultural value for all society². Benefits for sports participant has been documented in physical, psychological and social dimension²³. But sports grant opportunity in the Island has provoke a high performance approach toward grassroots sports. This traditional pyramidal approach has been identified with one of the sport dropout causes. Therefore sedentarism and eventually child obesity has been related to sport dropout. A professional practice paradigm shift is needed in the grassroots sports to a more holistic approach. In this document a Three Dimension Model (3DM) is been suggested as a strategy to transform the actual Puerto Rico grassroots sports coaches medal approach. The 3DM is the first effort to formally state a “wake up call” toward the high performance approach in Puerto Rico’s grassroots sports. The model suggest the combination of Balyi’s Long-Term Athlete Development⁴ with the Olympic Values Education Program (OVEP)¹⁵ to proper impact body and mind of young athletes. **Keywords:** Sport; Grassroot sport; Olympic values.

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THE IMPORTANCE OF SPORT IN THE SOCIETY

Sports have been a natural and common cultural expression in the human being since the beginning of times. Evidence of different type of sports has been documented since ancient times. Celebration and religious rituals was express thru sports festivals and competitions. Ancients Olympic Games date from the year 767 B.C. and evidence of other sports games are from earlier years.⁸

In contemporary society sports is an important part. Professional sports, Olympic Games and other form of physical activity have been established as "an important socialization agency" (Hodge and Lonsdale, 2011). Authors state "sport has a meaningful role to play in this regard". As Morales Guzman (2001) state cite in Alvarez (2015) "sports is a human expression which involve a huge number of people, including participants and spectators". Merkel (2013) reports that in the US 75% of every family "with school-age children have at least one child" in organize sports.

"Sports is a relevant cultural expression in the Puerto Rico society".^{2, 8} Puerto Rico international participation start in 1930 at the Central American and Caribbean Games in La Habana Cuba and in the Olympic games in 1948 (London).⁸ One of the important dimensions of sport in Puerto Rico is society mobility thru ought college sports grants. As the Economic Mobility Pathways (2016) projects establish. Education is one of the pathways pillars to society mobility. Found in 1929 Puerto Rico has a 19 college's sports league named "Liga Atlética Interuniversitaria de Puerto Rico y las Islas Vírgenes" which offer full or half scholarship in 18 sports. Therefore grass root sports coaches and parents focus their sports training toward a high performance approach as strategy to obtain a college scholarship. Merkel (2013) connect this approach with "controversial topics, such as early specialization, identification of elite players, trained and untrained coaches, increasing injury rates and moral issues of character and sportsmanship".

HIGH PERFORMANCE APPROACH TOWARD GRASS ROOT SPORT

The high performance approach toward grass roots sports is been debate in the sports scientific community. Studies have found high levels of sport dropout in early sports specialization participants. Merkel (2013) identify a disconnection between young athletes and adults in sports participation expectative as a cause of sports dropout. Petros (2017) state that "Youth Sport Dropout has been an issue for researcher since the early 1970's". As Gould & Petlichoff (1970) identify, as cite in Petros (2017) sport dropout prevalence identify 35%. Merkel (2013) confirm the same tendency (35%) but in adolescence ages (15 years old) the author reports an 80% dropout rate. Recently, Latorre-Roman, Garcia Pinillos and Lopez Robles (2018) report as high as 96.5% of sports dropout in a 10 years data recollection (2004-2014) of the best 10 track and field youth athletes of Spain.

Sport dropout must be a major concern for the sports and health community. Studies have connected sport dropout to sedentarism and other health problems. For example Merkel (2013) point put that children 8-18 are replacing outdoors "traditional pickup games" with an average of 7.5 hours of passive-sedentarism activities. In Puerto Rico like in other parts of the world, statistics of child obesity have identified a positive tendency over the past decades.^{7, 15, 23, 25, 30} Sports has been identified as an alternative for this health problem. Literature has recommended for children and adolescence, good nutrition program, physical activity and low levels of sedentarism,^{7, 15, 23, 25, 30}

Scientific literature establishes that Sports-based programs can influence positively adolescence or young athletes.¹⁵ Merkel (2013) states Sports base programs "assist in breaking the vicious cycles of inactivity and

unhealthy lifestyle". The influence of Grassroots Sports Coaches (GSC) in young athletes has been established (Rutten et al. 2011). Prosocial behaviour (PSB) during adolescence is one important factor. Eisenberg, Fabes and Spinard (2006) cite on Inglés et al (2009) and validated by Hodge, K. and Lonsdale, C. (2011) defined prosocial behaviour as the "voluntary conduct to help others". At this maturation phase (adolescence) conflict conduct emerge or display with negative behaviour as antisocial conduct, aggressiveness, bullying, violence, depression and social anxiety.¹⁵ Positive conduct must be reinforced to support healthy life skills that can be transfer to other stages of life. Lack to promote prosocial behaviour can lead to health risk conduct in adolescence.¹ For example, actual scientific literature point out that performing enhancing substance use among young athletes has been documented. Calfee y Fadale (2005) states that "appearance and athletic abilities" are one of the reasons for performing enhancing substance use in young athletes. This kind of conduct can cause serious health problems.¹⁷ As an example Tzortzi, Lappas, Konstantinidi, Telonaiatis, Tzavara and Behrakis (2018), identify the "increased popularity and use of the water-pipe" smoking, "especially among adolescents and young adults." Sports-Based programs has proven to be an effective to promote healthy lifestyle.^{11, 12, 15, 30}

Sports benefits and contribution to participants has been documented by physiologist, physiologist and social sciences researchers. To set the goal for sport participation only focus on the High Performance Level is a narrow vision. Especially if we consider young athletes probability to eventually compete at the elite levels as adults.²³ Nevertheless if the young participant will eventually follow sport into high performance level or recreational sports. Grassroots sports "praxis" must transform and focus in the participants mind and body benefits as the classic Latin old saying state: "mens sana in corpore sano."

MENS SAN IN CORPORE SANO: BENEFITS OF IN GRASSROOTS SPORTS

Grassroots Sports participation can benefit young athletes in at least three major areas. They are: Physical, Psychological and Pro Social Behavior.²³ In terms of physical benefits the impact of sports in the human physiology has been extensively recognize (Lee et al, 2014). Organize sports fi follow the recommended physical activity requirements for children (60 Minutes per day in a daily basis), can be a helpful tool against obesity.²³

But in addition of physical health, physical activity can bring positive effects to brain functioning.²² Study have document how the aerobic exercise interacts with neurotrophic factors to predict cognitive functioning in adolescents.¹⁸ A positive relation between aerobic capacity and cerebral connection (Phase-Locking values) in females adolescence was found by Kamijo et al (2016). Bidzan-Bluma and Lipowska (2018) identify improvement in attention, thinking, language, learning and memory after a systematic review of studies related to this area. This brain positive impact of the physical activity has been related to Academic Success.^{14, 15, 16}

Finally as mention earlier, in addition of body and mind benefits. Physical activity impact the Pro Social Behaviour of sports participant. Researchers as Kirby, Moraczewski, Velonskey & Redcay (2018) use the term "Social Brain" to explain their research conclusion. Authors identify a positive impact in the "Neural sensitivity" of 40 participants (7 to 13 years old) expose to high social experience (Sports). Findings recognize GRS to impact the human physiology of the participant (Lee, Wong, Lau, Lee, Yau & So, 2014), but also to influence athlete's prosocial behaviour, Freeman & Rees (2017). Therefore Sports-Based programs has been designed to promote positive prosocial behaviour in adolescence and young athletes. Scientific literature has an overwhelming evidence of this kind of program in the school scenario.

The Goldberg and Elliot ATLAS program (Athletes Training & Learning to Avoid Steroids) was designed for young male athletes involved in all types of school sports. It focuses on “the consequences of drug and athletic supplement use, body image perception, practicing how to refuse a drug offer, media awareness, and sports nutrition and strength training as alternatives to performance enhancing drugs”. ATLAS report a drug and alcohol use reduction in 3,200 high school athletes after 5-year of the program. The ATLAS sister program ATHENA design for young women athletes was listed by the Anabolic Steroid Control Act a federal law from the United State of America Congress in 2004.^{11, 12}

Life of an Athlete (LOA) design by John Underwood in 2010 is another sport-base program example that has “reduce student athlete’s drinking behaviour through providing comprehensive information on the effects of alcohol on the body and on athletic performance”. With an extensive 17,000 student’s participation.³⁰

Recently in the year 2016 the International Olympic Committee develop a second version of the Olympic Values Education Program (OVEP). Originally created by Dr. Deanna L. Binder OVEP toolkit was “designed for learners from 8 to 18 years, often with English as a second language” with “activities for a variety of different age levels and reading abilities.”^{15, 16} OVEP developers “summarizes over 500 peer-review scientific reports that describe the benefits of physical activity, sports and physical education” in adolescence.^{15, 16}

OVEP is a practical application of Olympic Movement founder ideas. Coubertin as an educator promotes a sports-base program in schools. He “believed that young people needed to train their bodies as well as their minds”.¹⁵ Sports use to disseminate positive values is an essential objective of the Olympic Movement.⁸ OVEP promotes a considerable holistic approach to benefits the individuality of the participant, by “challenging and enrich a student’s learning experiences” of the participant.^{15,16} OVEP “can build resilience and social skills and can have profound effects on the student’s life and that of their community” as it state in the OVEP Manual.^{15, 16}

OVEP implementation has been successful in the school scenario. Sukys, Majauskiene & Dumciene (2016) implement OVEP for three years. 411 students participate in the Olympic Education program as part of the formal academic curricula. A total of 430 don't have the OVEP program. After the three years prosocial behaviour in the OVEP program participant was significantly high scores than the NO-OVEP group. Considering as Hodge and Lonsdale (2011) establish, that sports in “an important socialization agency, sport has a meaningful role to play in this regard”. OVEP is an opportunity to promote a holistic approach in grassroots sports scenario. As Rutten et al. 2011 point out Sport Coaches can develop a “favourable moral atmosphere” that will “positively associated with more prosocial behaviour”. Researchers find that “supportive coach–athlete relationships were associated with both less antisocial and more prosocial behaviour in the sports context”, Rutten et al. 2011. OVEP could be an alternative to promote PSB if its use formally in the daily training program.

3DM: TRANSFORM THE GRASSROOTS SPORT COACHES PROFESSIONAL PRACTICE

Sports context by itself will not necessarily improve health or pro social behaviour benefits. Social nature of sport provide opportunities for both pro and antisocial behavior.²⁷ GSC professional practice must enforce systematically a positive and adequate approach. As mention earlier, consequence of the sport dropout cause by the high performance approach can be detrimental to individual and society in general. “One of the frequently cited reasons for young athletes dropping out of sports programmed is that they stopped having fun”.¹⁵ But are GRS prepare to make the professional practice change and take advantage of sports and their benefits.

In the US 80% of baseball coaches in the “little league” and 92% of high school coaches lack of a formal training.²³ In Puerto Rico Sport Coaches Certification is less formal than in other countries. Level I Coach Certification consist of 24 contact hours and for the Level II 32 contact hours is require.² In other countries like Cuba Sports Coaches is a 5 year college education career. Knowing the discrepancy levels of coach education in Puerto Rico with other latitudes.² The Sports and Recreation Department promote after any coach certification a mandatory 32 contact hours of professional development every two years.² Due to this professional development requirements for the GSC in Puerto Rico. OVEP can be a useful tool in this coach education process. GSC certify with Olympic Education (OVEP) can offer sports sessions with “best practice” and impact in a positive manner the body and mind of young athletes.

To seek this goal GSC need new forms of sports training has been design. Long-Term Athlete Development (Balyi, I.), Development Model of Sports Participation (Côté, J.), Psychological Characteristics of Developing Excellence (Abotts, et al) and Model of Talent Development in Physical Education (Bailey and Morley) are few of them.³ In Puerto Rico there is a lack of specific models to help sport coaches oriented their training program.² Therefore base on all the scientific data presented a Three Dimension Model (3DM) is suggested as a holistic approach to grassroots sports training in our cultural context. Base on the Biopsychosocial Model of Development,³ 3DM is intended to attend the physical, psychological and social expectative of the young athletes. Basic concept for this 3DM, sports training program will be to have a fun sports training experience, individual development oriented and more focus in skills acquisition and physical conditioning over the competition emphasis.

The first component or **Dimension One- Fun**, consist of a GSC effort to offer a fun and attractive experience. As Merkel, (2013) state “for the very young athlete the goals of participation are to be active, have fun, and to have a positive sports experience through learning and practice of fundamental skills”. In this dimension is an combination of the Balyi LTAD phase one “Fundamentals” and the Siedentops public health goals to “emphasis in an playful activity above all”.³ With this orientation GSC can attend the participant needs in the “ABC of athletics” (Ability, Balance and Coordination) due to the lack of proper physical education programs in Puerto Rico. With a sports-participation approach to overcome sports dropout and the high levels of sedentarism.

Second, the **Dimension Two- Development** consist of the Body and Mind component with specific orientation to attend the physical, psychological and social needs of the young athlete. For the physical or body component, GSC will focus in the individual development process of the participant. As Balyi and Way states “the development ages of athletes should be identified and monitored by coaches”. The actual practice of periodizing annual programs based on a sports calendar. Will be substitute by identified the Peak Height Velocity (PHV) or the rate of growth of young athletes, to proper determine their LTAD stages. Then, GSC could know better the “window of trainability” to develop speed, skills, flexibility, strength and endurance in the more accurate “sensitive period” of young athletes.

For the psychological and social needs or the mind component part. The integration of the Olympic Education, OVEP is recommended. In our cultural context Olympism is a strong cultural value that will help to ensure emotional, social, and educational and behaviour changes (IOC, 2016). OVEP can be integrated as an intra-disciplinary strategy. For example as part of the warmup of at the beginning of the session. Other form can be as an inter-disciplinary strategy were GSC could combine a specific tactical training with the social concept of “teamwork”. OVEP can be an independent curriculum, like a recovery session once a week.

Finally the **Dimension Three- Demonstration**, is oriented to significant minimize the levels of the competitive focus of the sports participation. Based on Balyi “70:30 Training/Competition Ratio” recommendation for these ages. In this 3DM concept the competition must be considering the acquisition of skills and physical condition over sports results. Programs as IAAF Kids Athletics develop by the International Association of Athletic Federation are the paradigm suggested for the competition part of this model. Created in 2005 this program transform an individual sport to a “Team Event for Children” (<https://www.iaaf.org>).

FINAL NOTES

The 3DM is the first effort to formally state a “wake up call” toward the high performance approach in Puerto Rico’s grassroots sports. More work must be done to fully develop a model theory and then experimental research projects to evidence this new paradigm. Researches and Institution has been promoting models and strategies based in an extensive scientific literature. Therefore GSC should make a reflective process over their professional practice in youth sports. The traditional pyramidal High Performance Approach and early specialization toward grass roots participant has been identify with one of the sport dropout causes. An holistic approach has been recommended for these young athletes. These sports oriented theory recommend impacting physical, psychological and social needs of the participant. 3DM is a practical application of this theory in the cultural context of Puerto Rico grassroots sports. The model suggest the use of currents tendency such as Balyi’s LTAD to accurate develop the physical or body components of young athletes and the Olympic Education (OVEP) for the psychological and social component (Mind). An opportunity to transform the actual Puerto Rico GSC medal approach. To a professional practice paradigm shift base in a holistic approach, much close to a Paidotribo. This sports coach figure of the Ancient Greek, that was responsible of the body and mind preparation of young athletes.

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Grassroots sport policy could therefore make an important contribution to achieving the goals of the EU's Juncker Plan. The HLG considered furthermore that several issues which are fundamental to the beneficial social contribution of grassroots sport and are often linked should be investigated and recommendations elaborated. These are: a. to providing opportunities for, and encouraging minority and female involvement in grassroots sports, as participants from a young age, volunteers and professionals; b. to increase physical activity by encouraging active commuting, incentive programs and use of existing open space and infrastructure; c. to closely work with the sport movement so as to ensure the implementation on Good Governance principles in grassroots sport. June 2016. 12. Entourage Technical Courses for Coaches Olympic Scholarships for Coaches Athlete Career Transition NOC Athletes' Commission Activity Grant. Sport Development Development of National Sports System Continental Athlete Support Grant Youth Athlete Development Refugee Athlete Support. From grassroots to elite level, from amateur structures to professional athletes, sport development occupies an important place within the programmes implemented by Olympic Solidarity, in collaboration with the International and National Federations and other key partners. Start by marking "Creative Schools: The Grassroots Revolution That's Transforming Education" as Want to Read: Want to Read saving list. The book is mainly targeted to teachers and other education professionals but it has obvious implications and utility for government and family. The foot notes and bibliography are very extensive and interesting, providing many references to academic papers, books and multimedia resources. ...more. Sport is a human activity resting on fundamental social, educational and cultural values. It is a factor making for integration, involvement in social life, tolerance, acceptance of differences and playing by the rules[1]. For many people, sports and in particular football, is part of their identity. However, many of these people, especially young people, take their frustration with them to the pitch or to the stadium. In this context emerged the SAVE IT project (Saving the dream of a grassroots sport based on values). SAVE IT is a European project belongs to the Programme Erasmus + SPORT. "Development of contents for serious games with the goal to being used by kids and young practitioners. To achieve previous goals, a complete methodology has been established. Many supporters of the sport management professional models again received support and operational point of call in sports organizations. During the last decades market needs to have professional managers in the field of sports has increased significantly. Sport has become one of the main activities of global business. Coach Executive Director. Assistant Coach Coach. Doctor Assistant Coach. Case studies, management theory. and its interrelation with the practice being taken in direct analysis, made to understand in more detail how to act in certain cases management. The globalization of sport brings with it many benefits for the sport, which is ever more being used as a vehicle crosses traditional lines of gender, religion, and geographical barriers.