Research

Facilitators and Barriers to Participation while Pursuing an Athletic Career
Retrospective Accounts of Swimmers with Disabilities

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Abstract

The purpose of this article was to explore mediating factors to pursuing a competitive swimming career as well as attributes of participation, retrospectively reported by nine retired competitive swimmers with a disability. A focus group discussion followed by a qualitative content analysis was performed. Categories of verbal comments were inductively analyzed by two trained social scientists. Trustworthiness was obtained through verbally and literally describing the proposed theme categories to the focus group participants during a feedback session, who then filled in a questionnaire depicting their agreement or disagreement with the proposed themes. The main categories generated included (a) facilitators to participation, (b) barriers to participation, and (c) participation attributions. Strongest agreement of participants with facilitator sub categories regarded (a) feeling of being an elite group, and (b) joy and fun. Participants’ retrospective accounts reflected a need for reducing barriers and enhancing facilitators and empowerment in pursuing an athletic carrier.

Keywords: Barrier, career, facilitator, Paralympics, retirement, swimmers
Physical activity and sports have developed during the recent decade as a legitimate and appropriate social environment for persons with disabilities (DePauw & Gavron, 2005; Fey & Wolf, 2009). Article 30.5 of the U.N. Convention on the Rights for Persons with Disability (United Nations, 2006) is a landmark for acknowledging the commitment of society to establishing sports for persons with disability as a normative leisure activity.

Successful athletes report psychosocial benefits of participation such as reduced depression, increased vigor, and enhanced mood (e.g., Morgan, 1985). Positive outcomes of sport participation have also been documented in athletes with disabilities (see review in Hutzler & Sherrill, 1999). Authors have compared psychological traits of athletes with disabilities to those of able-bodied athletes (e.g., Henschen, Horvat, & French, 1984; Horvat, French, & Henschen, 1986; Mastro & French, 1986), but have not specifically related them to their training and participation experiences. Several authors have specifically related the favorable psycho-social outcomes of athletes with disabilities to a sense of empowerment (Hutzler, 1990, 2003; Sørensen, 2003).

Empowerment can be defined as “restoration to individuals of a sense of their own value and strength and their own capacity to handle life’s problems” (Bush & Folger, 1994, p. 2). Empowerment is strongly anchored in the development of physical activity practices in participants with disabilities. Following the preliminary linking of disability sport and psycho-social empowerment (Hutzler, 1990), the concept of empowerment was further promoted by Sherrill (1995) as the “social doctrine” of the adapted physical activity (APA) field of study and practice.

Empowerment has also been acknowledged as one of the major criteria within the code of conduct for staff involved in organizing paralympic events (IPC-SSC, 1995), which states that “the involvement in sports should empower the athlete in his or her decision-making processes and his or her actions... the athletes should be empowered to make autonomous decisions and to further his or her development through the medium of sport” (p. 16).

The empowerment role of sport organizations is to develop human resources through the athletic medium (Thomas & Ermler 1988; Wheeler, 2001). Empowering environments and atmospheres can be provided by sport organizations (Kidman & Davis, 2007); however, the most effectively means for achieving this goal is unclear. Pensgaard and Sørensen (2002) have proposed to study self-identity, goal orientation/motivational climate, and self-efficacy as mediating factors between the individuals with disabilities and empowerment in sports. The mediating effect of individual and environmental factors has also been articulated within the recently accepted International Classification of Function and Disability (ICF; WHO, 2001). In terms of the ICF, personal and environmental variables may either limit or facilitate activity and participation of individuals with disability in social life (see Sherrill, 2004; Ustün, 2003).

In spite of the benefits attributed to physical activity of athletes with disabilities (see Hutzler & Sherrill, 1999), athletes with and without disabilities often report high levels of stress during participation in training and competition, which seem to result from a complex interplay between situational, cognitive, physiological, behavioral, personality and motivational factors, and affect the participant’s performance and psycho-social functioning (Coakley, 1992; Dale & Weinberg, 1990;
Among the most important of these psycho-social processes are the athlete's appraisal of (a) the situational demands, (b) the available personal and social resources, (c) the possible consequences of failure to meet the demands, and (d) the perceived meaning of the consequences (Smoll & Smith, 1990). Disadvantageous effects of the stress include inhibited performance, premature withdrawal from training and competition (Bull, 2001), higher degrees of injury (Andersen, & Williams, 1988; Junge, 2002; Smith, Smoll, & Ptaszek, 1990), and even psychopathological stress disorders (Miller, Vaughn, & Miller, 1990).

Several factors contribute to the participant's ability to successfully manage the stressful events that occur throughout his or her sport career; some factors are related to the actual skills and abilities needed during sport participation, and others are related to the individual's psychological resources (Johnson, Tenenbaum, & Edmonds, 2006; Raedeke & Smith, 2001). Coakley (1992) provided an interesting perspective on the challenges of athletic participation and the mechanisms facilitating and restricting burnout in adolescent athletes. He suggested that the stress phenomenon is not a personal weakness, but rather an outcome of the social organization of sport that disempowers the young athlete and delivers a feeling of being trapped in a dead-end situation, thus directing the athlete to seek other modalities for meaningful control over life. This recommendation addresses again the empowerment atmosphere that has also been linked to coping with stress within disability contexts (Lindström & Eriksson, 2005).

Thus far, no research has contributed to understanding the role of mediating personal factors (e.g., self-efficacy and identity), and environmental factors (e.g., coach, administration, family, and peer participants) affecting participation in disability sport; therefore, using the ICF as a frame of reference, the purpose of the current study was to explore the impact of environmental and personal mediating factors as facilitators and barriers to participation in and pursuing a competitive swimming career from participants' perspective.

Method

Participants
All retired swimmers with major international achievements during the last two decades coming from one sport center in Israel were invited to participate in this study. Eleven individuals were contacted, nine individuals participated (four females; five males), and two were unable to attend due to time constraints. The average age of participants was 44±8.4 years. Average number of years since retirement was 10.9±4 years. Average age at retirement was 33.1±7.7 years. Average swimming career length was 24.3±6.7 years. Current marital status was: four married, four unmarried and one divorced. Participants had the following disabilities: cerebral palsy (CP; n = 4), polio (n = 3), spinal cord injury (SCI; n = 1), and above knee amputation (n = 1). The four participants with CP had a congenital disability. The participants with polio acquired their disabilities at a very young age of one to three years, whereas the swimmers with spinal cord injury and amputation acquired their disability at an early adult age. All participants attended major international events during their competitive career. Table 1 provides individual participant information, including the self-reported reason for retirement and the type of participation in physical activities post retirement.
Table 1
Details of Participants’ Age, Disability, Family Status, and Swimming Career

<table>
<thead>
<tr>
<th>#</th>
<th>Main Achievements</th>
<th>Disability</th>
<th>M/F</th>
<th>Family status</th>
<th>Reason retired</th>
<th>Activity after ret.</th>
<th>Age ret.</th>
<th>Career years</th>
<th>Age initiated</th>
<th>Current age</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2 Paralympics Gold; Bronze</td>
<td>Polio</td>
<td>F</td>
<td>M+4</td>
<td>De-selection</td>
<td>Dancing</td>
<td>37</td>
<td>28</td>
<td>9</td>
<td>51</td>
</tr>
<tr>
<td>2</td>
<td>2 Paralympics Gold; Bronze</td>
<td>CP Di</td>
<td>F</td>
<td>S</td>
<td>Classification</td>
<td>No</td>
<td>26</td>
<td>19</td>
<td>7</td>
<td>37</td>
</tr>
<tr>
<td>3</td>
<td>Paralympics Finals</td>
<td>CP Tetra</td>
<td>F</td>
<td>S</td>
<td>Did her best</td>
<td>Swim</td>
<td>45</td>
<td>30</td>
<td>15</td>
<td>50</td>
</tr>
<tr>
<td>4</td>
<td>SM Games Gold</td>
<td>SCI C6</td>
<td>F</td>
<td>S</td>
<td>Health</td>
<td>No</td>
<td>38</td>
<td>13</td>
<td>25</td>
<td>48</td>
</tr>
<tr>
<td>5</td>
<td>Paralympics Bronze</td>
<td>CP Di</td>
<td>M</td>
<td>M+2</td>
<td>Classification</td>
<td>Swim</td>
<td>30</td>
<td>26</td>
<td>4</td>
<td>36</td>
</tr>
<tr>
<td>6</td>
<td>4 Paralympics Gold</td>
<td>Polio</td>
<td>M</td>
<td>M+4</td>
<td>Professional</td>
<td>Sailing</td>
<td>36</td>
<td>30</td>
<td>6</td>
<td>50</td>
</tr>
<tr>
<td>7</td>
<td>Paralympics Gold</td>
<td>AK</td>
<td>F</td>
<td>M+3</td>
<td>Conflicts with coach and peers</td>
<td>Swim</td>
<td>27</td>
<td>23</td>
<td>4</td>
<td>43</td>
</tr>
<tr>
<td>8</td>
<td>4 Paralympics Gold</td>
<td>Polio</td>
<td>M</td>
<td>D+2</td>
<td>Did his best</td>
<td>Swim</td>
<td>40</td>
<td>34</td>
<td>6</td>
<td>51</td>
</tr>
<tr>
<td>9</td>
<td>2 Youth games Gold</td>
<td>CP tetra</td>
<td>M</td>
<td>S</td>
<td>Did his best</td>
<td>Cycling</td>
<td>19</td>
<td>16</td>
<td>3</td>
<td>27</td>
</tr>
</tbody>
</table>

Note: CP=cerebral palsy; Di=diplegia; Tetra=tetraplegia; AK=above knee amputation; SCI=Spinal cord injury; M=married; S=single; D=divorced; +Number=number of children; SM=Stoke Mandeville; ret. = retirement

Procedure
Participants attended one focus group discussion lasting three hours. Focus group discussions have been acknowledged as an important research tool in fields such as health education (Basch, 1987) and in marketing (Vaughn, Schumm, & Singaub, 1996). A focus group is described as “an informal discussion among selected individuals about specific topics relevant to the situation at hand (Beck, Trombetta, & Share, 1986). Focus groups usually adhere to several core elements:

(a) The group is an informal assembly of target persons whose point of views are requested in order to address a selected topic; (b) the group is small, six to 12 members, and is relatively homogenous; (c) a trained moderator with a prepared layout of issues and questions sets the stage and induces participants’ responses; (d) the goal is to elicit the perceptions, feelings, attitudes, and ideas of participants concerning a selected topic; (e) focus groups do not generate quantitative information that can be projected to a larger population. (Vaughn et al., 1996, p. 5)

The main focus in our study was broadly declared as participants’ perspectives on facilitators and barriers while pursuing their athletic career. Specific questions addressed during the group discussion related to examples of barriers
and facilitators to pursuing their athletic career and the psycho-social consequences experienced. Both investigators addressed the topic to the group and co-moderated the session, but independently processed the data. Verbal contents of the meeting were transcribed and an inductive content analytical method (Mayring, 2000a, 2000b; Taylor & Bogdan, 1984) was used to formulate theme categories and sub-categories. Trustworthiness was checked across the process via bilateral agreement between category coders. In our study, the criteria for defining categories were (a) contextual factors facilitating or limiting participation, and (b) psycho-social outcomes of pursuing a competitive swimming career. Categories were parallel formulated step-by-step by the two investigators, and after about 50% of the material was read, agreement between the two investigators was reached. In order to further examine the trustworthiness of these categories, a meeting was held in which the process of analysis and the results were presented to the participants and they were then asked to provide oral feedback. During this meeting, participants were also requested to fill in a questionnaire describing the formulated categories with example citations. Participants expressed their degree of agreement with the categories on a 4-point bi-polar scale, ranging from very much agree (4) to very much disagree (1). In order to simplify the description of scale outcomes, responses were later dichotomized into agree vs. disagree labels. Frequencies of agreement vs. disagreement in each category are reported in Table 2.

### Table 2

*Categories Induced through the Focus Group Inquiry and Participants’ Agreement*

<table>
<thead>
<tr>
<th>Description</th>
<th>Agree (%)</th>
<th>Disagree (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Facilitators</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1  Peer swimmers</td>
<td>5 (56)</td>
<td>4 (44)</td>
</tr>
<tr>
<td>2  Feeling of being an elite group</td>
<td>8 (89)</td>
<td>1 (11)</td>
</tr>
<tr>
<td>3  Joy and fun</td>
<td>8 (89)</td>
<td>1 (11)</td>
</tr>
<tr>
<td><strong>Barriers</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4  Classification</td>
<td>4 (44)</td>
<td>5 (56)</td>
</tr>
<tr>
<td>5  De-selection</td>
<td>6 (67)</td>
<td>3 (33)</td>
</tr>
<tr>
<td>6  Health disorders</td>
<td>2 (29)</td>
<td>5 (71)</td>
</tr>
<tr>
<td>7  Coach</td>
<td>4 (44)</td>
<td>5 (56)</td>
</tr>
<tr>
<td>8  Peer swimmers</td>
<td>5 (56)</td>
<td>4 (44)</td>
</tr>
<tr>
<td>9  Vocational and economical conflict with training</td>
<td>4 (44)</td>
<td>5 (56)</td>
</tr>
<tr>
<td><strong>Participation attributes</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 Empowerment</td>
<td>8 (89)</td>
<td>1 (11)</td>
</tr>
<tr>
<td>11 Abandonment</td>
<td>7 (78)</td>
<td>2 (22)</td>
</tr>
</tbody>
</table>

*Note: Bold marks above 75% agreement among respondents*
Results

In the first level analysis (50% encoding), the following categories emerged:

(a) *Swimmer emotions*, including anger, hostility, avoidance, abandonment, pain, social contact, loss, trauma, joy, insult, emotional investment, personal growth; and (b) *Objects of emotions*, including events, persons and processes related to participation. While evaluating the criteria for theme category definitions, a second level of categories was generated that included classification, de-selection, health disorders, coach’s ignorance, and peer swimmers. While continuing the encoding process, some category labels were grouped together and redefined and second level categories were reassembled, with three major categories entering final agreement: (a) facilitators for participation; (b) barriers to participation; and (c) participation attributes.

Frequency of participants’ reactions to the proposed categories (Table 2) exhibited above 50% agreement in seven out of the 11 sub-categories identified, and above 75% agreement in four of these 11 sub-categories. Strong agreement was particularly visible in regard to the “facilitators” category, and the associated subcategories of empowerment and abandonment. Specific examples of the content in each category follow, grouped by major categories.

Facilitators

**Peer group support.** For some participants, peer swimmers who were engaged in the same practices across their career many hours per week were perceived as an important source of strength, encouraging adherence. One swimmer explicitly noted, “I remained because of the feeling of a peer group.”

Feeling of being part of an elite group. One swimmer described this feeling very literally. “Swimming gave us pride… we were the elite… everybody was starring at us (during the swimming competition)… it was amazing.” Swimmers also addressed their common experiences and specifically the adverse swimming circumstances as sources of strength and pride.

**Joy and fun.** In spite of the hardship of expending many training hours, most swimmers emphasized the joy of swimming. One swimmer explicitly commented, “I know that I liked it… as soon as I didn’t have fun anymore I stopped swimming (in competition).” Another swimmer combined in her remarks the mediating factors of peers and fun “I had fun with the group of people.” Eight out of nine participants (89%) agreed on both latter categories, depicting their magnitude in our focus group.

Barriers

**Changes in the classification system.** Three participants with polio or CP reported that changes in the international classification system limited their potential to maintain level of achievement and this was a major contributor to their decision to retire. The classification changes resulted in grouping different motor impairments together, thus reducing the total number of competitive classes from 29 to only 10. Associated statements included, “The new classification broke me down” and “After having participated in four Olympiads, I saw that I had no further chances in the Barcelona Paralympics.”

**Uncertain criteria for selection.** Two participants with polio reported that selections were a cause for retirement and one of them felt his achievements in national competitions were the reason for the retirement of his competitor. Specifically, one female swimmer reported...
being excluded from the swimming team two weeks prior to their departure for the Paralympics, and considered this a traumatic event for her participation in swimming and in the club activities. While reflecting on the event, the athlete made her point that with respect to selection constraints, technical (e.g., not training with the rest of the team members, but rather with an opposing team) rather than professional (performance in swimming competitions) criteria were utilized by the club administration in their decision not to select her to the team. Since the selection criteria were not commonly known, this event was perceived by the swimmer as a trauma, evoking extremely high and prolonged stress, which, among other reasons, resulted in complete avoidance of any aquatic activity. “I was in a severe break down. I couldn’t look at the swimming pool. I am happy that I abandoned it…I want to cry…The blue water I had loved so much became a source of anger and betrayal.”

Health disorders. Two participants, one with CP and one with SCI, reported that health problems were the direct reason for their retirement. Some of the disorders were non-disability-specific (“I retired because of my health condition. I had an operation”). It should be noted, however, that in the feedback questionnaire all other participants disagreed on this theme, demonstrating that this issue affected only a relative small part of our focus group.

Coach’s low competence and ignorance. One participant reported loss of confidence in the coach soon after he had experienced a spasm during swimming and felt “I was about to drown, without the coach’s acknowledging this event.” The insecurity this swimmer felt during the event was recognized by him as the major reason for his retirement from competitive swimming. Another swimmer mentioned coach ignorance when he returned to swimming for recreation purposes after his retirement. He felt this coach was indifferent towards him as he came to swim only for health and weight control purposes. Another swimmer said she was disappointed that her coach did not “fight for her” and “did not even phone” when she was dismissed from the national team. Another female swimmer explicitly mentioned her coaches applied sanctions against her after she had retired from competitive swimming, thus limiting her motivation to continue participation for health and recreation purposes. Another swimmer referred to coach neglect after retirement, suggesting that the coach did not provide him with further supervision and he had to plan a gradual procedure of reducing the training load himself. During the feedback session, one participant said that the barrier to participation that he perceived during his career was due to his coach’s low professional efficacy. According to this swimmer, the training contents and methods used in their group by some of the coaches were outdated and were not at the level used in competitive swimming clubs incorporating able-bodied swimmers.

Peer swimmers. Most swimmers with CP in our sample reported being partially rejected by some of their peer swimmers, and considered secondary to swimmers with amputation, polio or SCI. This ignorant behavior was experienced mostly within the national team and not the local club, and demonstrated by being told to swim in the outward lanes rather than in the central ones during training. They also did not receive some services, such as massage, that were given to their peer swimmers with other disability conditions.

Vocational and economical conflict with training. Three participants explicitly mentioned conflicts between
their occupation and their training requirements—up to 10 training sessions per week during the competition season. One swimmer acknowledged the money he had to invest during the prolonged training hours for child care, for missing working days, for traveling, and so on. Another swimmer was a special education teacher and reported that her employer (the Ministry of Education) was unwilling to exempt her from her teaching obligations during competitions that were taking place at the beginning or end of the school year.

Participation Attributes

Empowerment. Four participants reported personal strength gained through the training in the aquatic environment. One of them said she felt able to walk independently in the water, which was impossible for her on land. She also depicted the process of personal growth: “We swam under difficult conditions and became strong ... swimming gave us pride.” Another swimmer added, “The pool was a source of strength.” The swimmer with the most severe condition participating in the group described the impact of swimming on pride and self-esteem. “Due to the achievements in swimming, my family got to know who I am. It has helped my self-confidence a lot, even through difficult times.” She further mentioned the impact of participation in training on recovering from mourning her mother, who had died prior to her participation in the Paralympic games. All of the participants but one (89%) expressed agreement on this category.

Abandonment. Several participants described a feeling of abandonment, particularly after retirement. A female swimmer who stopped training after being de-selected to the Paralympic team complained nobody phoned, nobody asked me whether I would like to swim a little bit...so I didn’t swim, maybe gained some weight... nobody fought for me, including coaches and friends. I felt so small....

Another swimmer felt he was left alone to cope with his retirement. “I decided I wanted to retire from big competitions and gradually reduced the load. It was my own decision, my own planning, nobody helped.” Seven out of nine (78%) participants agreed on this category.

Discussion

In the current study, a group representing most retired international competitive swimmers from a major sport club for athletes with a disability retrospectively reported their perspectives on facilitators and barriers to participation during and after their competitive career, and on emotional outcomes of this career. The average and range of participant ages at retirement in our focus group suggests that about two-thirds of the participants retired prematurely. Although the early 30s is not considered premature for competitive able-bodied swimmers, in disability sport participants often follow a competitive career until their late 40s. The participants clearly articulated barriers to pursuing their careers, as well as certain facilitators mediating toward adherence. These barriers and facilitators can be identified with the personal and environmental contextual factors pertaining to participation within the ICF framework (Figure 1).

Table 1 demonstrates that most of our participants chose to continue participation, either in recreational swimming or alternative recreational activities including sailing, dancing and...
Figure 1: Factors Pertaining to Participation within the ICF Framework

cycling. The discussion that follows will address the specific facilitators and barriers to participation during the career and the retirement.

Several authors have suggested creating an empowerment atmosphere within a sport organization, and conducting an empowering dialogue aimed at enforcing strengths of participants in order to avoid the detrimental effects of stressors during a career (Kydman & Davis, 2007; Lindström & Eriksson, 2005). It should be acknowledged, however, that elite disability sports is often associated with inherently disempowering mechanisms. For example, the sport organizations are often overwhelmed with caring for achievements expressed in medal count, rather than for empowerment. In addition, the classification principle, broadly utilized in disability sport, creates, particularly in the individual sports, fragmented small groups for identification and comparing performance. Being “reclassified” may disrupt the identification scheme.

Indeed, in our group, both empowerment and abandonment were reported as participation attributes. Apparently, abandonment was related to a predominance of barriers over facilitators. Thus, it appears that a specific account of each mediating factor for participation and pursuing a career is necessary.

Among the mediating factors explicitly generated in our analysis, joy and fun and being a part of an elite group were confirmed by eight out of our nine participants (89%). No perceived barrier received such a broad agreement. Thus, the generalization of these facilitators seems better established than that of the barriers. All facilitators and most of the barriers generated (e.g., changes in the classification system, uncertainty about the
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election criteria, coach’s low competence, vocational and economical conflicts) appear to be environmental mediating factors. One factor—peer swimmers—was regarded as both a facilitator and a barrier, with five participants agreeing on each attribution (56%). It seems that the individual perception of this factor was highly contextual and should be carefully interpreted. Only one barrier generated could be described as an internal factor (health disorders). This factor was mentioned by two participants, one of them discontinued her physical activity after retirement. Furthermore, in order to facilitate participants’ adherence and empowerment, external factors are more easily accessed and influenced by organizational bodies. Therefore, we focus on external factors in the following section.

Generally, it appears that the balance between facilitators and barriers contributed to adherence or, alternatively, burnout and retirement. This balance between barriers and facilitators was related to several potential conflict contexts: (a) coach–athlete conflict; (b) peer group–athlete conflict; (c) job–training conflict; (d) club selection process–athlete conflict. The concept of conflicts as barriers to pursuing an athletic career has been acknowledged in the sport literature, suggesting that the reason most often mentioned for dropout is the time problem, which occurs when trying to coordinate education, job and competitive sport (Gabler, 1981; Kroger, 1986; Sack, 1980; Singer 1992). In a study comprising 136 elite athletes, lack of time to be with significant others and role conflict were positively associated with burnout scores (Kjormo & Halvari, 2002). Further conflict areas addressed for swimmers, gymnasts, track and field athletes and ball game players appear within the athletic environment, including the coach, sport organization, and peers (Bussmann, 1999; Gabler, 1981; Kroger 1986; Singer 1992). The relationship of the swimmer with the coach is expected to be based on a very high level of confidence, commitment and security in his or her professional competence, thus revealing positive outcomes on motivation and performance (Amorose & Horn, 2000; Black & Weiss, 1992). Bussmann (1999) illustrated the contextual role of the coach in her conclusion that:

Coaches play an extremely decisive role in the competitive development of their athlete, and their supporting or inhibiting influence cannot be estimated too highly. The coach is not only responsible for a successful career in competitive sport but he or she may also be responsible for the termination of a career. (p. 27)

Similarly, the existence of conflicts with administrators and peers may play an important role in facilitating early burnout. In contrast, conflicts can also be an important trigger of an empowerment process (see Hutzler, 2003). However, in order to facilitate empowerment, some preliminary personal mediators such as self-identity as an athlete, self-efficacy, goal-orientation, and decisiveness are required. The development of an athletic and able-bodied social identity has been addressed among elite athletes with a disability (Wheeler et al., 1999) and particularly in swimmers with a disability (Martin, Adams-Mushett, & Smith, 1995). However, if these mediators are lacking, a vicious cycle of learned helplessness may occur (Seligman, 1992). Therefore, if conflicts are associated with alternative choices and independent decision making processes, then this context would typically result in reinforced mental power and durability, and may be
considered as empowering. If, however, conflicts are associated with a forced and unexplained decision, the context may be considered disempowering and could create considerable stress and psychopathological symptoms to the individual (Campbell & Jones, 2002; Wheeler, 2001; Wheeler et al., 1999). The range from healthy to pathological reactions to stress is typically explained through the balance between the perceived facilitators and barriers as well as personal higher order executive systems appraising the threat (Antonovsky, 1987; Lazarus & Folkman, 1984). The categories we have identified as facilitators, including joy and fun during participation, the feeling of being an elite group, and the social support of the peer group, can be linked to group cohesion and unity that have been recommended in employee empowerment (Plunkett & Fournier, 1991) and appear to mediate psychosocial health and buffer stress reactions. In contrast, the environmental factors which we have identified as barriers, including uncertain criteria for selection, unrecognized classification systems, conflicts with the coach, with peers, and with the employer, as well as internal factors such as health disorders appear to threaten psychosocial health, thus promoting distress and premature retirement (burnout). All mediating factors appearing in our study with the exclusion of health disorders can be considered as organizational stressors, whose acknowledgment among 10 able-bodied athletes was more strongly represented than performance stressors (Hanton, Fletcher, & Coughlan, 2005).

Limitations

This study had several limitations, including the retrospective nature of the inquiry and the diversity of the sample in terms of age, gender, and type of disability. In addition, the participants in this study were a selected group of elite level swimmers and included a relatively small number of participants, representing a limited reference group. Finally, it should be acknowledged that our data is based on a focus group setting that may compromise the depth of information acquired.

Recommendations

Findings from this study indicate that social-environmental factors are crucial as facilitators to maintaining the careers of swimmers with disability; therefore, it is recommended that sport organizations consider implementing program and career developing procedures such as: (a) increasing their transparency of decision making, (b) incorporating athletes in the decision making process, (c) build on and augment the empowering, mediating function of the athletic social-identity, for example through modeling and peer tutoring programs (d) encouraging alternative tracks to competitive training when burnout is anticipated, (e) providing psycho-social consultation, that is intended to increase athletes’ coping strategies, both problem and emotion focused, and (f) emphasize the facilitators proposed by our participants, including joy and fun and being an elite group (table 2).

The Long-Term Athlete Development (LTAD) model (Balyi, 2001) applied by the Canadian Sport Federations and implemented in organizations serving participants with a disability appears to be a promising example. The research establishing the validity and objectivity of the integrated swimming classification (Daly, Djobova, Malone, Vanlandewijck, & Steadward, 2003; Daly, Malone, Smith, Vanlandewijck, & Steadward, 2001; Wu & Williams, 1999) is another way to empower athletes, by decreasing the uncertainty
concerning classification as a reason for de-
selection that has distressed many of our
participants.
Conflicts are expected within
organizational structures (Zeithaml,
Parasuraman, & Berry, 1990), and
procedure for identifying and solving
conflicts in sport organizations for athletes
with disabilities, such as the gap analysis
procedures, seem to be a useful strategy
(Hutzler, 2004). This procedure identifies
gaps existing between expected and
perceived services among environmental
(e.g., spectators, media, press, National
Olympic/Paralympic Committee etc.) and
internal (coach, manager, administrator,
athlete) consumers. Reducing these
gaps, as well as providing psycho-social
consultation to sport participants in order
to identify and reduce conflict states,
seems likely to enhance empowerment and
diminish stress-related emotions.

In regard to therapeutic recreation
practice, the awareness of facilitators and
barriers to pursuing sport activity and
athlete empowerment should be taught
in professional developing institutions
such as university programs and in-service
educational modules within community
recreation services.

In regard to further research, it is
recommended that verification of our
findings should be sought through in-
depth interviews, as well as extensive
quantitative study of sport participants.
For example, questionnaires on barriers/
facilitators to participation could be used.
In addition, supplementary categories
of informants should be considered to
increase the perspective studied. Potential
study participants may include family
members, coaches, and administrators
in a variety of sports. Furthermore, in
order to augment the perspective of sport
participation, interviews and quantitative
research should be conducted with
additional target audiences, such as
club members who do not make it to an
international level, or recreational athletes,
who may share a different motivational
structure than elite athletes, and therefore
may require a different treatment to bolster
empowerment.
References


International Paralympic Committee - Sport Science Committee (IPCSSC) working group (1995, April). The Paralympic movement - New directions and issues in sport science: A final report of the 2nd annual meeting of the IPCSSC. Berlin, Germany: IPCSSC.


