Emotional Intelligence and Self-Efficacy Among Physical Education Teachers

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Research has documented a positive association between Emotional Intelligence (EI) and well-being, performance and self-efficacy. The purpose of the current study was to examine potential associations between EI and self-efficacy among physical education teachers. The Trait Emotional Intelligence Questionnaire (TEIQue) and the Teacher Sense of Efficacy Scale (TSES) were administered to a sample of 119 physical education teachers. The main results show a positive association between EI and self-efficacy, and more particularly that the sociability factor of EI predicted the TSES total score. Moreover, neither age nor teaching time experience was related to EI or self-efficacy scores. These results both confirm and extend previous findings on the association between EI and self-efficacy. Suggestions are provided for specific EI training for physical education teachers.

Keywords: teaching, emotion, TEIQue, TSES

Emotional intelligence (EI) is the ability to recognize and express emotions in yourself and to understand the emotions of others. In other words, the construct of EI refers to the individual differences in the perception, processing, regulation, and utilization of emotional information. When the EI concept was first introduced, the interest remained limited to a small scientific community until the publication of the book Emotional Intelligence by Daniel Goleman (1995).

Research devoted to EI has now split off into two distinct perspectives—the ability model and the trait model. Both perspectives share the idea that cognitive abilities are not the unique predictor of successful adaptation but that emotional competencies have to be taken into consideration. However, these perspectives markedly differ regarding their conceptualization of such emotional competencies and their measurement (Mikolajczak, Luminet, & Menil, 2006). On the one hand, ability models (Mayer & Salovey, 1997) conceive EI as an ability encompassing four dimensions: (a) emotions identification; (b) emotions utilization; (c) emotions understanding and (d) emotions regulation. In this ability perspective, EI is assessed via intelligence-like tests. On the other hand, trait models (Petrides & Furnham, 2001) consider EI as a multifaceted construct encompassing 13–15 (depending on
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the model) emotion-related behavioral dispositions thought to affect the ways an individual would cope with demands and pressures. In this trait perspective, EI is evaluated via personality-like questionnaires. While ability tests capture maximal performance, trait tests aim to capture typical performance (Petrides & Furnham, 2003).

A vast amount of research has documented a positive association between trait EI and well-being related variables (Petrides, Pita, & Kokkinaki, 2007; Schutte, Malouff, Simunek, Hollander, & McKenley, 2002). Trait EI is negatively related to psychopathology (Malterer, Glass, & Newman, 2008). Trait EI is also a significant moderator of responses to stress (Mikolajczak & Luminet, 2008; Mikolajczak, Roy, Luminet, Fillée, & de Timiry, 2007). On the other hand, some studies have demonstrated a positive link between EI and performance related variables, like job performance and self-efficacy (Chan, 2004; Sy, Tram, & O’Hara, 2006).

The relationships between EI and job performance were first studied far from the educational context. Indeed, several lines of evidence suggest a positive influence of EI on job performance contributing to its fast-growing use in the business world (Goleman, Boyatzis, & McKee, 2002). However, studies investigating relationships between EI and performance at the individual level suggest that the current excitement surrounding the potential benefits from EI in the workplace may be premature or even misplaced. Indeed, although EI appears to be related to performance and effective outcomes in some cases (Bachman, Stein, Campbell, & Sitarenios, 2000; Bar-On, 1997; Dulewicz & Higgs, 2000; Janovics & Christiansen, 2001), the results are very limited and often contradictory (Zeidner, Matthews, & Roberts, 2004). Moreover, the literature is replete with unsubstantiated generalizations, with much of the existing evidence bearing on the role of EI in occupational success based either on anecdotal, impressionistic evidence and/or unpublished or in-house research (Barrett, Miguel, Tan, & Hurd, 2001). However, few studies have investigated the relationships between EI and performance at the group level (Day & Caroll, 2004; Feyerherm & Rice, 2002; Jordan, Ashkanasy, Härtel, & Hooper, 2002; Rapisarda, 2002). According to Jordan and Troth (2004), EI and, more particularly, the ability to deal with one’s own emotions, allowed team members to be more inclined to listen to alternative viewpoints and to look for superior solutions, without feeling threatened by the possibility of being wrong. Turning toward the educational context, teachers’ intrapersonal and interpersonal emotional intelligence were found to significantly predict active coping strategy (Chan, 2008). In teachers, emotion-regulation ability (one of the four dimension of EI) may contribute to greater job satisfaction and feelings of personal accomplishment (Brackett, Palomera, Mojsa, Reyes, & Salovey, 2010).

Finally, some studies have reported positive associations between EI and the concept of self-efficacy, that is “the belief in one’s capabilities to organize and execute the courses of action required to produce given attainments” (Bandura, 1997, p.3). At the school level, perceived self-efficacy beliefs have been powerfully related to meaningful outcomes such as teachers’ persistence, enthusiasm, commitment and instructional behavior (Tschanen-Moran & Woolfolk Hoy, 2001). According to Gibson and Dembo (1984), teachers with high self-efficacy are better able to keep students engaged in learning activities whereas teachers with low self-efficacy demonstrated a lack of persistence and used criticism in feedback given to students. In addition, teacher self-efficacy is related to student
characteristics such as motivation, achievement and efficacy (Tschannen-Moran, Woolfolk Hoy, & Hoy, 1998).

Chan (2004) reported that secondary teachers’ general self-efficacy was positively predicted by positive regulation (a subscale of the Emotional Intelligence Scale (EIS); Schutte et al., 1998), reflecting teachers’ optimism or positive expectancies using mood regulation. Moafian and Ghanizadeh (2009) showed that emotional awareness, interpersonal-relationships and problem solving (based on Bar-On, Emotional Quotient; Bar-On, 2000) were the best predictors of self-efficacy among Iranian English Foreign Language (EFL) teachers. Rastegar and Memarpour (2009) confirmed these results with the Schutte’s scale. If self-efficacy is significantly predicted by some components of EI, this suggests that differences between teachers may affect this relationship. This means that it could be useful to suggest coping strategies of mood regulation to enhance self-efficacy among teachers.

As noted earlier, some studies have investigated the relationships between EI and self-efficacy with different EI measures and on different samples (e.g., secondary teachers, EFL teachers). Since the Trait Emotional Questionnaire (TEIQue) developed by Petrides (2009) is probably the most interesting measure of EI (Pérez, Petrides, & Furnham, 2005), the aim of the current study was to extend the association between EI and self-efficacy on a sample of physical education teachers. Teaching physical education involves daily work based on social and physical interactions, for which the teacher must regulate his or her own emotions, but also those of students and of the key stakeholders of education (e.g., parents, colleagues, school principal). As the school life and experiences of the students are highly emotional, especially in physical education, a teacher must be able to emotionally understand the students to offer meaningful and relevant learning content (Debois, Blondel, & Vettraino, 2007). A teacher’s interpretation of student emotion is linked to her thinking and decisions about educational content, curriculum, and pedagogy (McCaughtry, 2004). Therefore, we predict some association between the sociability factor of the TEIQue and self-efficacy among physical education teachers.

Methods

Participants

Participants in the current study were 119 elementary (n = 27) and secondary (n = 92) physical education teachers from different schools in the French speaking part of Belgium. The convenient sample consisted of 53 females and 66 males—all white Caucasians—with a mean age of 42.1 years (SD = 10.3). Their physical education teaching experience ranged between one and 38 years, with a mean of 18.2 years (SD = 10.9). The participants were solicited to participate voluntarily in the study.

Emotional Intelligence and Self-Efficacy assessments

Global Trait Emotional Intelligence was assessed using the French version of the Trait Emotional Intelligence Questionnaire (TEIQue; Petrides, 2009). The TEIQue consists of 153 items arranged on a 7-point Likert scale (from strongly agree to strongly disagree). It provides scores for 15 subscales, four factors (well-being, self-control, emotionality, and sociability) and global trait EI including all
the 15 subscale scores. The well-being factor (e.g., *I believe I’m full of personal strengths*) comprises three subscales (self-esteem, optimism, and happiness); the self-control factor (e.g., *I usually try to resist negative thoughts and think of positive alternatives*) comprises three subscales (stress management, impulsiveness, and emotional regulation); the emotionality factor (e.g., *I’m usually able to express my emotions when I want to*) comprises four subscales (emotion perception, emotion expression, empathy, and relationship skills); and the sociability factor (e.g., *I usually find it difficult to change other people’s opinions*) comprises three subscales (social competence, assertiveness, emotion management). Two additional subscales (adaptability and self-motivation) are included in the total score. The TEIQue shows excellent psychometric properties (see Mikolajczak, Luminet, Leroy, & Roy, 2007 for the psychometric properties of the French adaptation). In the current study only factors and total score were used and Cronbach’s alpha ranged from 0.75 to 0.86.

The Teacher Sense of Efficacy Scale (TSES) (Tschannen-Moran & Woolfolk Hoy, 2001) was used for assessing self-efficacy. This 24 items scale includes three factors: efficacy in student engagement (e.g., *How much can you do to help your students think critically?*), efficacy in instructional strategies (e.g., *How well can you respond to difficult questions from your students?*), and efficacy in classroom management (e.g., *To what extent can you make your expectations clear about student behavior?*). Each factor comprises of 8 items arranged on a 9-point Likert scale (from nothing to a great deal). The overall reliability of this instrument is high with a Cronbach alpha of 0.94.

### Statistical Analyses

All statistical analyses were performed using Statistica (9.1) for Windows (Statsoft France, 2010). Differences on TEIQue dimensions and on total score as well as subscores of the TSES between genders were assessed with multivariate analysis of variance (MANOVA), with TEIQue and TSES scores as dependent variables and group (male vs female) as the independent variable. Spearman correlations and stepwise multiple regression analyses were used to examine the relationship between the TEIQue and the TSES.

### Results

The mean scores and standard deviation for TEIQue and TSES scales and their subscales are presented in Table 1. Multivariate analysis showed that female physical education teachers exhibited significantly higher scores for the emotionality factor of the TEIQue, and lower scores for the self-control and sociability factors of the TEIQue than male physical education teachers.

The correlations among the total score and the four factors of the TEIQue and the total score and the three factors of the TSES are summarized in Table 2. Significant positive correlations were found between the total TEIQue score and the total TSES score ($r = .28$), as well as with the three factors of the TSES (student engagement, $r = .19, p = .04$; instructional strategies, $r = .31, p < .01$; and classroom management, $r = .22, p = .01$). In contrast, the TSES total score was positively correlated only with the sociability factor of the TEIQue ($r = .36, p < .01$). The
sociability factor of the TEIQue was positively correlated with the three factors of the TSES (student engagement, $r = .27$, $p < .01$; instructional strategies, $r = .32$, $p < .01$; and classroom management, $r = .34$, $p < .01$). The self-control factor of the TEIQue was positively correlated with the instructional strategies factor of the TSES ($r = .25$, $p < .01$). In addition, neither age nor years of physical education teaching was correlated to the TEIQue and the TSES (all $p > .05$).

Table 1  Comparisons Between Females and Males for the Trait Emotional Intelligence Questionnaire (TEIQue) Total Score and factors as Well as for the Teacher Sense of Efficacy Scale (TSES) Total Score and Factors.

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
<th>Female</th>
<th>Male</th>
<th>F(8,110)</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well-being</td>
<td>145.46 ± 15.46</td>
<td>144.67 ± 18.30</td>
<td>146.09 ± 12.84</td>
<td>0.24</td>
<td>0.62</td>
</tr>
<tr>
<td>Self-control</td>
<td>148.08 ± 21.32</td>
<td>142.88 ± 24.40</td>
<td>152.25 ± 17.58</td>
<td>5.91</td>
<td>0.01</td>
</tr>
<tr>
<td>Emotionality</td>
<td>189.39 ±24.01</td>
<td>195.41 ± 25.05</td>
<td>184.56 ± 22.16</td>
<td>6.27</td>
<td>0.01</td>
</tr>
<tr>
<td>Sociability</td>
<td>140.38 ±18.86</td>
<td>136.45 ± 19.73</td>
<td>143.54 ± 17.66</td>
<td>4.26</td>
<td>0.04</td>
</tr>
<tr>
<td>TEIQue Total</td>
<td>718.70 ± 72.57</td>
<td>712.92 ± 83.31</td>
<td>723.34 ± 62.93</td>
<td>0.60</td>
<td>0.43</td>
</tr>
<tr>
<td>Student engagement</td>
<td>47.92 ± 8.09</td>
<td>48.22 ± 6.66</td>
<td>47.68 ± 9.13</td>
<td>0.13</td>
<td>0.71</td>
</tr>
<tr>
<td>Instructional strategies</td>
<td>52.37 ± 7.17</td>
<td>52.52 ± 7.34</td>
<td>52.25 ± 7.08</td>
<td>0.04</td>
<td>0.83</td>
</tr>
<tr>
<td>Classroom management</td>
<td>56.01 ± 7.39</td>
<td>55.56 ± 6.36</td>
<td>56.36 ± 8.16</td>
<td>0.34</td>
<td>0.56</td>
</tr>
<tr>
<td>TSES Total</td>
<td>156.31 ± 19.22</td>
<td>156.32 ± 16.72</td>
<td>156.30 ± 21.14</td>
<td>0.01</td>
<td>0.99</td>
</tr>
</tbody>
</table>

Table 2  Correlations Between the Trait Emotional Intelligence Questionnaire (TEIQue) Total Score and Factors and the Teacher Sense of Efficacy Scale (TSES) Total Score and Factors.

<table>
<thead>
<tr>
<th></th>
<th>Student engagement</th>
<th>Instructional strategies</th>
<th>Classroom management</th>
<th>TSES Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well-being</td>
<td>0.19</td>
<td>0.14</td>
<td>0.13</td>
<td>0.28</td>
</tr>
<tr>
<td></td>
<td>p = .04</td>
<td>p = .12</td>
<td>p = .01</td>
<td>p = 0.001</td>
</tr>
<tr>
<td>Self-control</td>
<td>0.01</td>
<td>0.25</td>
<td>0.08</td>
<td>0.17</td>
</tr>
<tr>
<td></td>
<td>p = .34</td>
<td>p = .06</td>
<td>p = .38</td>
<td>p = 0.05</td>
</tr>
<tr>
<td>Emotionality</td>
<td>0.27</td>
<td>0.15</td>
<td>0.13</td>
<td>0.36</td>
</tr>
<tr>
<td></td>
<td>p = .002</td>
<td>p = .09</td>
<td>p = .14</td>
<td>P &lt; 0.001</td>
</tr>
<tr>
<td>Sociability</td>
<td>0.27</td>
<td>0.15</td>
<td>0.22</td>
<td>0.28</td>
</tr>
<tr>
<td></td>
<td>p = 0.001</td>
<td>p = .01</td>
<td>p = 0.001</td>
<td>P &lt; 0.001</td>
</tr>
</tbody>
</table>
Stepwise regressions showed that the TSES total score was explained only by the sociability factor of the TEIQue ($\beta=0.39; F = 4.7; p < .01; R^2 = .14$), and that the TEIQue total score was explained only by the instructional strategies factor of the TSES ($\beta =0.31, F = 4.6, p = .003; R^2 = .11$).

**Discussion**

The main results of the current study showed a positive correlation between EI and self-efficacy among physical education teachers, and that the sociability factor of EI predicted the TSES total score. Moreover, neither age nor teaching experience were related to EI or self-efficacy scores. In addition, females exhibited higher scores for the emotionality factor of EI, and lower scores for the self-control and sociability factors than males. Even if the associations were rather small (i.e., correlations between 0.19 and 0.36), the present results may be relevant to the field.

**Discussion**

The present results show that females scored higher for the emotionality factor of the TEIQue and scored lower for the self-control and sociability factors of the TEIQue than males. These findings confirm the empirical support for a gender difference on dimensions relating to control and regulation of one’s own emotions. Petrides and Furnham (2000) reported higher scores for females on empathic factor of trait EI, whereas males exhibited higher effectiveness for inhibiting emotional expression. As the empathic and emotional expression factors are two main components of the emotionality subfactor as defined by Petrides and Furnham (2001), one can consider the results of Petrides and Furnham (2000) as highly consistent with the present findings. In accordance with previous studies (Di Fabio & Palazzeschi, 2008; Furnham, 2000), our results showed that males obtained higher scores in the intrapersonal dimension while females scored higher on the interpersonal dimension. Nevertheless, as mentioned by Sánchez-Núñez, Fernández-Berrocal, Montañez, and Latorre (2008), findings based on self-reports of EI measures are very disparate concerning gender differences. Moreover, this disparity is not only explained by the kind of assessment tool used, either self-report or performance measures, but also by the variability of the sociodemographic characteristics of the sample. Future research may then put the emphasis on the selection of a sufficiently large and consistent sample. However, a representative sample was not conceivable in this study as global data about the physical education teacher population in the French speaking part of Belgium were not available.

The emotionality dimension of EI is not always related to better adaptation and well-being. Indeed, Quoidbach and Hansenne (2009) have recently reported that emotion appraisal was negatively correlated with the health care quality provided by teams. In other words, emotion appraisal without emotion regulation is negatively associated with job performance. High scores on the emotionality factor could therefore restrain the ability of teachers to focus on the interpersonal part of their job as they encounter difficulties to manage their own emotions. Consequently, teaching self-efficacy is affected and opportunities to learn in the appropriate conditions are diminished for students (Jennings & Greenberg, 2009). Expressing the right level of emotionality regarding to the teaching situation should therefore be a main objective of physical education teacher programs.

In the current study, neither age nor years of teaching experience were correlated with the TEIQue and the TSES. These results are consistent with previous
studies showing no association between these variables and both EI and self-efficacy among teachers (Chan, 2004; Penrose, Perry, & Ball, 2007; Rastegar & Memarpour, 2009). Therefore, one can suggest that efficacy in teaching is independent of age and teaching experience (i.e., young teachers can instruct students as efficiently as older or more experienced colleagues), but rather associated to individual differences in EI and self-efficacy.

**Self-control factor of the TEIQue was positively correlated with the instructional strategies factor of the TSES.** Instructional strategies are related to items such as “how well can you implement alternative strategies in your classroom”, and “how well can you provide appropriate challenges for very capable students”. This means that (at the individual level) teachers with high self-control are more able to challenge the diversity of situations encountered in a classroom. Teachers characterized by higher self-efficacy have been found to improve student behavior, learning, and management in the classroom (Chase, Lirgg, & Carson, 2001), and one can hypothesize that they exhibit improved abilities to organize and adapt their teaching to the diversity of classroom experiences, especially in the context of physical education. Physical education teachers face multiple social interactions in a more complex context than classroom teachers. Teachers who have been prepared to teach physical education have specialized knowledge (i.e., movement skills, observational skills) that help them make appropriate decisions and understand how to develop and maintain productive learning in a highly fluid and fast-moving environment (Rink & Hall, 2008). Besides, student physiological and psychological reactions to physical fitness, motor development, competition or body expression are highly personal. Each individual must therefore receive an education related to those personal characteristics. The emotional awareness and emotion regulation of physical education teachers could influence the efficacy of this pedagogical relationship. Students in classes taught by physical education specialists, in comparison with nonspecialists, achieve more, have higher fitness levels and exhibit a more positive attitude toward physical activity (Rahim & Marriner, 1997; Sallis et al., 1997).

If the teachers are more likely to ‘clearly organize’ pedagogical content regarding everyone’s roles and responsibilities, the latter will become more confident in their teaching, with a transition from concern for the self as disciplinarian in the classroom to concern for interpersonal relationships and creator of a caring environment for the student (Lundeen, 2004). Eventually, this progress will keep disruptive emotions and impulses under control and help teachers to be more confident in their ability to teach and use appropriate instructional strategies in the gym. These findings are consistent with the results reported by Magyar et al. (2007), showing that the ability to regulate one’s emotions was the most influential emotional skill in a group of sport camps leaders. A physical education teacher with a high level of self-control, providing instructional strategies adapted to the diversity of the physical education class, could therefore implement an optimal classroom environment for the students. This could lead to positive social, emotional and academic outcomes for the student (Jennings & Greenberg, 2009).

**Further exploration into the sociability factor of the TEIQue showed positive correlation with the TSES total score, defining sociability as the main predictor of self-efficacy.** Physical education teachers must develop responsibility, encourage social interactions, provide similar rewards and avoid malicious comparisons.
between the students (González-Cutre, Sicilia, Moreno, & Fernández-Balboa, 2009). Moreover, effective physical education teachers have good listening and communication skills, which in turn help them to nurture their students’ confidence. This major role in creating learning environments that promotes social development is one of the main objectives of physical education teaching. For physical education teachers, the importance of social competencies is emphasized by findings indicating that poor social support from teachers may act as a significant factor leading to reduced students’ motivation (Bo, Weidong, Haichun, & Rukavina, 2010). More generally, participants with low score on sociability are unable to understand others’ emotions and are less likely to be good networkers, unsure of what to do or say in social situations (Petrides, 2009). Consequently, physical education teachers with high interpersonal skills will be able to instruct students in a more confident way and, eventually, could implement an effective teaching approach. Developing these social skills within physical education teacher education programs with an emphasis on teacher-students interaction could be very interesting as sociability and teaching efficacy are two closely connected concepts. The Prosocial Classroom model (Jennings & Greenberg, 2009), which highlights the importance of the teachers’ social and emotional competence (SEC) for a supportive teacher-student relationship, an effective classroom management, and a successful social and emotional learning program implementation, could therefore be of interest in the physical education context.

Finally, the current study showed that the total TEIQue score was positively correlated with the TSES total score, as well as with the three factors of the TSES. Teacher self-efficacy (i.e., the teacher’s belief about their teaching competences, Tschannen-Moran et al., 1998) is largely recognized in the literature as one of the most important variables related to a wide range of positive teaching and learning outcomes (Gibson & Dembo, 1984; Woolfolk & Hoy, 1990). Tschannen-Moran et al. (1998) reported the impact of teacher self-efficacy on several outcomes, such as teachers’ classroom behaviors, effort and goal-setting, openness to new ideas and willingness to try new methods, planning and organizational competencies, persistence, resilience, commitment and enthusiasm for teaching, and longevity in their chosen career. In addition, teacher self-efficacy has been shown to influence student achievement, attitude and emotional growth and is related to the health of the organization, atmosphere in the school, classroom based decision-making and student self-efficacy (Penrose et al., 2007). As a study carried out on a comparable sample size ($n = 158$) with teachers of other subject matters (i.e., language, math/science, social studies) showed that self-efficacy beliefs were significantly predicted by the components of perceived emotional intelligence (Chan, 2004), we might carefully hypothesize that the present results with physical education teachers are consistent with previous findings about teaching profession in general. Nevertheless, our research could be considered as an exploratory study. Due to the moderate sample size, the results presented in this study should be interpreted carefully. A potential bias of the participant recruitment might be acknowledged since the physical education teachers’ decision to participate in the study could be correlated with traits that affect the study. Moreover, the use of a self-report questionnaire to assess EI and self-efficacy might have induced a social desirability bias leading participants to over-report their interventions so that they would be viewed more favorably by others. To reduce some of these biases, anonymity was strictly respected at each
Interventions designed to improve EI have recently flourished, particularly among children, managers and other people with affective difficulties (Matthews, Zeidner, & Roberts, 2002). Despite the huge expansion of EI development methods and the preliminary evidence for their effectiveness, very few EI programs are based on a solid theoretical model and even fewer have been rigorously tested (Matthews et al., 2002). First, these training programs lack a clear theoretical and methodological rationale and use a miscellany of techniques whose psychological bases are sometimes questionable (Matthews et al., 2002; Matthews, Zeidner, & Roberts, 2007). Second, they usually target only some EI dimensions (e.g., targeting emotion identification but not emotion management) and add a number of skills that are not considered as parts of EI, such as problem resolution, alcohol or drugs prevention, and reduction of violence (e.g., Topping, Holmes, & Bremmer, 2000). Third, when evaluations of these programs exist, they are often limited to subjective impression right after the training given by teachers for EI training at school or by the director for EI training at work, without considering the long-term effects (Aber, Brown, & Henrich, 1999; Goleman, 1995; Matthews et al., 2002). Finally, none of the EI training evaluations to date have included a control group.

As regards to these limitations, an experimental study showed a significant increase in emotion identification and emotion management abilities after a theoretically based EI formation in the training group as compared with the control group (Nelis, Quoidbach, Mikolajczak, & Hansenne, 2009). Moreover, follow-up measures after 6 months revealed that these changes were persistent. Consistent with the previous findings, the same research group showed in a more recent study (Nelis et al., 2011) that EI can increase after a brief training and, more importantly, leads to a wide array of positive consequences (i.e., physical health, mental health, happiness, life satisfaction, global social functioning, and employability). This experimental assessment implemented in a rigorous scientific approach could therefore be considered as an important contribution to an improved quality of teaching by physical education teachers. Nevertheless, in the context of physical education, preservice and ongoing teacher training are often focused on the development of specific knowledge and skills, even though understanding students’ emotions may be as critical to make effective decisions about content, curriculum, and pedagogy (McCaughtry, 2004). For instance, The Emotionally Intelligent Teacher training (Brackett & Caruso, 2006) could pave the way to a specific physical education EI training. It will be important to explore whether these future interventions can result in improvements in EI and self-efficacy for physical education teachers, and, above all, in positive student outcomes.

**Conclusions**

The present results show positive correlations between self-efficacy and EI, and more particularly with the sociability factor. Based on those relationships between teacher self-efficacy and positive teaching and learning outcomes, an EI training with reference to the training sessions suggested by Nelis et al. (2009) could be adapted to the specific context of physical education teaching. However, further studies are needed to provide deeper analysis of this relationship between EI and
self-efficacy in the specific context of physical education teaching. For instance, even if EI and self-efficacy were assessed by validated scales, tools such as interviews, diaries, audio and video recording of physical education lessons could produce more information to understand the teacher’s ability to identify, assess, and control his/her own and students’ emotions. Moreover, it could be interesting to perform an external evaluation of EI and teacher self-efficacy. Tools such as the TEIQue 360° (Petrides, 2009) addressed to peers or students could reinforce the accuracy of the results, limiting the biases of self-report assessment via self-perception questionnaires. Indeed, there are many ways that emotions can be communicated consciously and unconsciously. Although teachers may often attempt to mask their feelings, students could be able to appraise the teacher’s emotional skills (Sutton & Wheatley, 2003), providing a cross validation of the teacher’s self-perceptions. Finally, given the current lack of uniformity relating to the methodological approach of those concepts, there is a need for a systematic and consistent assessment to extend our knowledge of physical education teaching.

References


