Examining Attitudes of Physical Education Teacher Education Program Students Toward the Teaching Profession

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ABSTRACT  The purpose of this study was to investigate attitudes of pre-service teachers toward the teaching profession with respect to their gender, grade level, whether participants regularly participate in physical activities, and whether pre-service students have a teacher-parent in their family. Research was conducted on 469 pre-service physical education teachers (Mage=21.35, SDage= 2.49), 188 female (Mage=20.89, SDage= 2.30) and 281 male (Mage=21.66, SDage= 2.57) students from five different universities in Turkey. In this study the “Attitude Scale for the Profession of Physical Education Teaching” was used. It has two factors: “concern for profession” (CP) and “affection for profession” (AP). Independent sample t-test results indicated that there were no significant differences with respect to gender or having a teacher-parent in both factors and total attitude points (p> 0.05). Pre-service physical education teachers who participate in physical activity had significantly higher points in AP and the total scale in comparison to those who do not participate in physical activity (p< 0.05). ANOVA results indicated that based on grade level there were significant differences in CP and total attitude (p< 0.05). Students’ concern about employment may be associated with differences in attitude scores between grade levels. The positive effect of physical activity participation and their professional teaching education on stress resilience might also be an important factor for increasing positive attitudes toward the teaching profession.

KEY WORDS  Attitudes toward Profession, Physical Education and Sport, Pre-service Teacher.

Introduction

Personal or community development and change in one’s desired course with respect to culture, knowledge, abilities and attitudes are only achievable through education (Demirhan, 2006). Teachers, students, and education programs are the essential components of the educational process (Sönmez, 2014). Teachers might be seen as the core of these components as they are responsible for guiding students to achieve the desired outcome according to the education program. Demirtaş, Gömert and Özer (2011) indicated that the teaching profession has decisive and directive roles beyond the other factors such as physical environment and other components in the educational process.

As stated in the literature, the effectiveness of the teaching profession is dependent on three crucial factors (i) profession choices of pre-service teachers, (ii) quality of teacher training, and (iii) teachers’ personal beliefs towards the teaching profession (Şışman, 1999). The belief system is diversified from other factors that affect the quality of education, as it is deeply resistant to change (Kagan, 1992). However, studies have elucidated how belief system of teachers have been formed (Tsangaridou, 2006). Literature has theoretically demonstrated that the belief system of teachers is formed in three consecutive periods; (i) during their experiences in school, (ii) from life experiences, (iii) during their professional teacher education program in university (Pajares, 1992).

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Kullinna, Brusseau, Ferry, and Cothran (2010) emphasized the belief system of teachers as "When beliefs function to make a decision or call for action, they become important and a group of beliefs clustered around a situation or object becomes an attitude that is prone to action". Attitudes can be defined as individual's mental, emotional, and behavioural forms of expected behaviour to an environmental object, social issue or experience. In line with these definitions, Kirel (2011) explained attitude as "personal feelings, ideas and adopting particular behaviours to other people, situations or objects". Teachers attitudes can lead their decisions and may affect teacher's behaviours in this way (Pajares, 1992). Considering the ways attitude towards teaching take form and influence teaching behaviors, it is important to understand pre-service teachers' attitudes. In this perspective, how pre-service teachers are restructuring belief system and attitudes in order to adopt appropriate instructional practices are key. Early educational experiences during childhood (Rovegno, 2003), early field experiences as a teacher (Woods, Goc Karp, & Escamilla, 2000) are important factors to consider.

Studies that examine pre-service teachers' attitudes toward the teaching profession have analysed different variables. Terzi and Tezci (2007) specified that pre-service teachers have a positive attitude towards their profession. In some studies, female pre-service teachers have demonstrated higher attitude scores than male pre-service teachers have (Pehlivan, 2010; Sağlam, 2008; Terzi & Tezci, 2007) yet there were no significant differences between genders in other studies (Özder, Konedralı, & Zeki, 2010). The years spent in a bachelor program as an indicator of educational experience was also considered while examining differences in pre-service physical education teachers' attitudes. Research demonstrated that program messages are incorporated into pre-service teachers' belief system about teaching physical education related to content, teaching effectiveness, and planning (Matanin & Collier, 2003). Therefore, years spent in a teacher education program becomes a critical issue in terms of attitudes. To illustrate, Ünlü (2013) reported that attitude scores of Turkish pre-service physical education students linearly decreased from the first year to the last year of their education.

In contrast, previous studies with pre-service teachers suggest that culturally based assumptions regarding sport and physical education were important factors as pre-service teachers progressed through their professional development (Rovegno, 2003). The physical education teacher education program is in the context of sport. Considering that most physical educators and pre-service physical education teachers share athletic backgrounds, it is important to investigate effectiveness this common sport culture on attitudes toward teaching. However, there is limited literature on this variable. Similar to physical education culture, having a teacher-parent in the family is another cultural background that might be shared by pre-service teachers (Pehlivan, 2008). However, there is an insufficient body of literature investigating the effects of this variable on attitudes in the physical education context.

To date, comprehending factors associated with positive attitudes toward teaching has been vital in order to improve the quality of teaching. The purpose of this study was to examine the pre-service physical education teachers’ self-reported attitudes toward the teaching profession by gender (men and women), grade levels (first, second, third and fourth), regular physical activity participation (yes/no), and whether they have a teacher-parent in their family or not (yes/no). Therefore, based on previous literature we hypothesized that (1) there is no significant difference between attitude points of male and female pre-service physical education teachers, (2) there are significant differences among pre-service teachers from different grades, (3) there are significant differences between pre-service teachers who regularly participate in physical activities and ones who do not, and finally (4) there are significant differences between pre-service teachers who have a teacher-parent in their family and who do not.

**Methods**

**Participants**
The participants of this study were 478 pre-service physical education teachers from five different universities in Turkey. Nine of them was excluded from the study because of inaccurate or incomplete filling of the instrument. Therefore, the study was completed with 469 participants: 281 males (Mage=21.66, SDage=2.57) and 188 females (Mage=20.89, SDage=2.30) pre-service physical education teachers completed the study: 180 participants were in the 1st grade, 134 participants were in the 2nd grade, 105 participants were in the 3rd grade, and 50 participants were in the 4th grade. Demographic information about the participants is shown in Table 1.

**Design of the Study**
A descriptive survey model was implemented in this study. Data were collected by the same researchers in all data collection centres. Gender, grade level, physical activity participation status (yes/no) and having a teacher-parent in the family (yes/no) were the independent variables and coded as categorical variable. In contrast, attitude scores in both AP, CP, and total scale were dependent variables. Physical activity participation was coded as a categorical variable, not as the physical activity level. This is a limitation of this study.

**Instruments**
Demographic measures are obtained by self-reported age, grade level, physical activity participation status, and having a teacher-parent in the family.
Attitudes toward the teaching profession were assessed using a 23-item 5-point Likert-type scale developed and validated by Ünlü (2011). This scale consists of two subscales. Affection for the profession (AP) is assessed with 13 positive items and Concern for Profession (CP) is assessed with 10 negative items which indicate that lower scores in this subscale emphasize higher concern levels. In Ünlü’s (2011) study both exploratory and confirmatory factor analyses conducted to check the validity of the instrument, and it was validated with satisfactory values. Moreover, internal consistency values were assessed with Cronbach’s alpha values and revealed 0.90 for AP, for 0.86 CP and 0.88 total scale, respectively, in the original research. In our study, Cronbach alpha values were found 0.76 for AP, for 0.85 CP and 0.86 for total scale. Cronbach Alpha values, which were greater than 0.70, show that scale has high-level internal consistency and that it distinguishes item in high and medium levels (Tabachnick & Fidell, 2013).

Data Collection Procedures
To conduct the study, ethical approval was obtained by the Anadolu University Ethics Committee. Secondly, researchers contacted the heads of Physical Education and Sport Teaching departments from five different universities, and they all chose to support this study. Two researchers visited these universities, explained the purpose of the study, and collected data from pre-service physical education who wanted to participate.

Data Analysis
Data analysis was conducted on 469 surveys. This number is sufficient according to Nunnally’s (1978) recommendations on required sample size for survey studies. It highlighted that required sample size is 10 for each item in the survey. Therefore, the sample size in this study is sufficient.

Before conducting analysis, variables were examined to meet assumptions of the parametric tests. Statistics of variables showed that skewness and kurtosis values were between the range of -0.60 to -0.53, -0.77 to 0.22 and -0.71 to -0.26 for total attitude score, AP, and CP respectively. These values met the ±1.50 criterion (Tabachnick & Fidell, 2013). Independent sample t-tests were separately conducted to understand differences between the independent variables “gender”, “physical activity participation” and “having a teacher-parent in the family”. In addition to t-tests, one-way ANOVA was conducted to understand the differences between grade levels in terms of their attitude scores. IBM SPSS 22.0 (Chicago, IL) was used to conduct analyses. The significance level was determined to be 0.05.

Results
Independent samples t-test results indicated that there were no significant differences between male and female pre-service physical education teachers in the AP subscale [Male (M= 4.18, SD= 0.50), Female (M= 4.22, SD= 0.48), t (467)= -0.72, p = 0.467], the CP subscale [Male (M= 3.85, SD= 0.81), Female (M= 3.92, SD= 0.78), t (467)= -0.88, p = 0.378], and the total attitude point [Male (M= 4.04, SD= 0.54), Female (M= 4.08, SD= 0.53), t (467)= -0.94, p = 0.344]. Although there were no significant differences between genders, descriptive statistics indicated that female pre-service physical education teachers had greater scores in the AP and CP subscales in comparison to their male counterparts. Similarly, female participants had greater total attitude points in comparison to male participants (Table 2).
One-way ANOVA results indicated that the grade level variable was a significant factor for attitudes toward the profession among pre-service physical education teachers. In other words, ANOVA results indicated that there were significant differences in total attitude points \(F (3, 465)= 5.20, p= 0.002\) and CP subscale \(F (3, 465)= 7.09, p= 0.000\) but not in AP \(F (3, 465)= 1.70, p= 0.165\) among pre-service PE teachers from different grade levels. Tukey post-hoc test was employed to understand differences among groups and results are shown in Figure 1. First-year students \(M= 4.17, SD= 0.49\) had significantly higher total attitude points in comparison to third-year \(M= 3.96, SD= 0.51, p=0.009\) and fourth-year students \(M= 3.91, SD= 0.61, p=0.011\). Secondly, first-year students \(M= 4.08, SD= 0.68\) had significantly higher scores in the CP subscale in comparison to second-year \(M= 3.78, SD= 0.81, p=0.002\), third-year \(M= 3.73, SD= 0.81, p=0.006\) and fourth-year students \(M= 3.66, SD= 0.93, p=0.005\). Finally, there were no significant differences between first-year \(M= 4.24, SD= 0.48\), second-year \(M= 4.22, SD= 0.50\), third-year \(M= 4.14, SD= 0.47\), and fourth-year students \(M= 4.10, SD= 0.49\) for the AP subscale.

A total of 151 participants reported that they have a teacher parent in the family, and 318 reported they do not have teacher-parent in the family. Independent samples t-test results indicated that there were no significant differences between these two groups in AP \(t (467)= -1.13, p= 0.257\) and CP \(t (467)= -0.31, p= 0.752\) subscales and total attitude score \(t (467)= -0.79, p= 0.430\). Descriptive statistics and t-test results are shown in Table 3.

As previously emphasized, physical activity culture is a key factor for attitude variables in physical education context; 324 of the participants reported that they regularly participate in physical activities and 145 of them reported that they do not participate regularly in any physical activity. Independent samples t-test results showed that participants who regularly participate in physical activities had significantly higher scores in comparison to those who do not participate in physical activity AP \(t (467)= -1.13, p=0.257\) and total attitude scores \(t (467)= -0.79, p=0.430\), but not in CP \(t (467)= -0.31, p=0.752\) (Table 4).
TABLE 4

<table>
<thead>
<tr>
<th>Physical Activity</th>
<th>Affection for Profession</th>
<th>p</th>
<th>Concern for Profession</th>
<th>p</th>
<th>Total Attitude Score</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>4.25± 0.49</td>
<td>0.001*</td>
<td>3.89± 0.78</td>
<td>0.583</td>
<td>4.09± 0.53</td>
<td>0.041*</td>
</tr>
<tr>
<td>No</td>
<td>4.09± 0.46</td>
<td></td>
<td>3.84± 0.83</td>
<td>0.583</td>
<td>3.98± 0.54</td>
<td></td>
</tr>
</tbody>
</table>

Legend: * – p<0.05

Discussion

In this study, pre-service PE teachers’ attitudes towards teaching were examined with respect to gender, grade level, physical activity participation, and having a teacher-parent in the family. The first null hypothesis of the study was not rejected as there are no significant differences between male and female pre-service PE teachers. In all subscales of the questionnaire, males and females have reported similar attitude scores towards teaching.

Descriptive statistics indicated that female pre-service PE teachers have higher affection, total attitude score and lower concerns for profession comparing to male counterparts. These results are in line with previous literature (Bedel, 2008; Pehlivan, 2010). Doğan & Çoban (2009) explained that teaching profession was perceived as female profession and females are more willing to become a teacher in Turkish culture. On the contrary; Güneyli & Arslan (2009) has demonstrated that gender is detrimental variable for attitudes toward teaching. A possible explanation to insignificant attitude scores between genders may be attributed to the contrary; Güneyli & Arslan (2009) has demonstrated that gender is detrimental variable for attitudes toward teaching.

The results of our study indicated that having a teacher-parent in a family does not make a difference in attitude scores on any subscale in comparison to those who do not have teacher-parent in their family. As Rovegno (2003), suggested that teachers transfer early educational experiences during childhood to the educational process in professional life; teacher parents might have an effect on these experiences. To illustrate, Archer et al. (2012) reported that the family habitat and social capital of the family is effective on children’s science aspiration and potential future participation among a 10-14 years old English population. Insufficient information on how parents in the teaching profession shape attitudes toward the academic life of children does not allow the comprehension of how teachers transfer their family background to attitudes related to teaching.

Participants who regularly participate in physical activity reported that they have significantly higher affection in the profession and total attitude score in comparison to those who do not. It was expected that the regular physical activity participation would increase the positive attitudes toward physical education teaching among pre-service PE teachers. In line with our results, Pehlivan (2010) reported the regular participation in sport has positive effect on attitudes toward the teaching profession among pre-service teachers. A possible explanation may be attributed to occupational stress. It is a well-established fact that physical activity reduces stress levels and improves mental health among adults and college-aged individuals (Wu, Tao, Zhang, Zhang, & Tao, 2015). Gerber, Jonsdottir, Lindwall, and Ahlborg (2014) suggested that physical activity participation is associated with resilience to occupational stress. Thus, decreased level of stress related to occupation may be effective on positive attitudes towards teaching profession among pre-service PE teachers. More specifically, literature has demonstrated that physical activity participation is one of the major strategies for coping with stress for teachers (Austin, Shah, & Muncer, 2005).

Our study has some methodological limitations. The physical activity level was obtained by self-report as a categorical variable, and this may have led to social-desirability bias. Moreover, future studies are needed to determine how family background and physical activity level rather than participation status affect the attitudes toward teaching among pre-service PE teachers. Finally, the sample sizes with respect to grade levels were distributed unequally because of the central teacher assignment exam, which takes place in the last year.
of teacher education. Therefore, fourth-year students are generally out of faculties to prepare for this exam. Future studies in the Turkish context should consider these factors to be a limitation.

In conclusion, although female pre-service teachers have more positive attitude scores toward the teaching profession than their male counterparts do, there were no significant differences between genders. Moreover, there were no differences between pre-service teachers with respect to the teacher in a family variable. Therefore, the presence of teacher-parents does not affect pre-service physical education teachers in terms of different aspects of attitude. In contrast, physical activity participation is essential for increasing positive attitudes toward teaching through decreasing stress levels. However, it is also important to clarify the possible relationship between physical activity level and attitudes towards teaching, rather than physical activity participation preferences. Finally, pre-service PE teachers are likely to increase their concerns about teaching with the upgrading grade level. This is most probably attributed to stress caused by the central teacher assignment exam. Therefore, it is important to consider stress as a variable in future studies focusing on attitudes towards teaching among pre-service teachers in the Turkish context.

References


