Stress, happiness and psychological well-being among college students: Role of sports in mental health

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Abstract
The importance of sports in a student’s life is invaluable and goes much further than the basic physical benefits. The current study aims to investigate the impact of sports on mental health by exploring stress, happiness and psychological well-being among college students. The sample for current investigation consists of 100 (50 who indulge in sports regularly, 50 who are not into any sports activity) students from the colleges of Mohali and Chandigarh. Perceived stress scale (Cohen, 1983), Psychological well-being Scale (Ryff, 1995), and General happiness Scale (Lyubomirsky & Lepper, 1999) were administered to the sample. t-test was applied to compare sports playing and non-sports playing individuals. Results indicate significant differences between sports playing and non-sports playing students on levels of stress, happiness and psychological wellbeing.

Keywords: happiness, sports, stress, mental health, college students

Introduction
College life is marked with number of changes that if not managed well can bring turmoil in life. The transition from childhood to young adulthood marked by beginning of college is particularly a stressful time (McNamara, 2000) [31]. Stress levels among college students are higher than any other age group (David, 2009) [10] and this high level of stress negatively affects the health of students (Elizabeth, 2003) [15]. The students tend to be high on stress levels as they have to manage their college life while preparing themselves for life beyond college. Stress is defined as a condition subjectively experienced by an individual who identified an imbalance between demands addresses to him/her and the resources available to counter these demands (Lazarus, 1990) [27]. Stress not only badly affects physical health of an individual but also has adverse effects on psychological and cognitive health (Shankar & Park, 2016) [42]. Stress in student life is related to poor academic performance, depression and serious health problems (Misra & McKean, 2000) [33]. Academic pressures combined with emotional factors result in higher levels of stress for students (Bamnhair, 2015), Though stress during college life is a reality but stress should be prevented from becoming students’ way of living in college because it has terrible effect and may result in failure in later life also. Students must learn to enhance their stress management abilities so that they can live a healthy life after entering the society as adults (Kai-Wen, 2010) [22]. Playing sports is one such way that can lead towards lowered stress levels (Kerr & Vlaswinkel, 1995; Miller & Kerr, 2002; Martin, Vause & Schwartzman, 2005; Moksens et al., 2010; Rumbold, 2012; Anderson, 2013) [24, 32, 29, 39, 1]. Present study looks into the role of sports on stress levels as well as happiness and psychological well-being among students.

Happiness is life experience marked by a preponderance of positive emotion. The word ‘happiness’ derives from the term for good fortune, or “good hap,” and indeed the terms used to translate it in other languages have similar roots. In this sense of the term—call it the “well-being sense”—happiness refers to a life of well-being or flourishing. Martin Seligman (2002) [29] in his book Authentic Happiness gives the positive psychology definition of happiness as consisting of both positive emotions (like comfort) and positive activities (like absorption). Encouraging people to take up purposeful activities such as physical activity, being a form of exhilaration of external factors, can help people live healthy and balanced lives (Um Sh, 2004) [71]. Happiness can be bought among individuals by encouraging them to
participate in physical activities as it helps them to lead a healthy and fulfilling life (Jouybari, 2011) [23]. Students constitute an important part of any nation’s population and are among the vulnerable group, thus, providing them experience of happiness becomes a responsibility for the adult population (Mohammadi, Batvandi & Saberi, 2015) [34]. Psychological well-being is usually conceptualised as some combination of positive affective states such as happiness (the hedonic perspective) and functioning with optimal effectiveness in individual and social life (the eudaemonic perspective) (Deci & Ryan 2008) [40]. Psychological well-being refers to how people evaluate their lives. According to Dierer et al. (1999) [10], these evaluations may be in the form of cognitions or in the form of affect. However, it is not a static concept; it gets enhanced with age, education and consciousness (Keyes et al., 2002) [23], Ryff’s (1989) [41] extensive work in the field has led to development of a multidimensional model of psychological well-being. The model consists of six dimensions; autonomy, environmental mastery, personal growth, positive relations with others, purpose in life and self-acceptance. All these dimensions play an important role in maintaining the overall psychological health of an individual. Psychological well-being is important attribute to lead a healthy and happy adult life for every individual and foundations of adult life is laid in college, thus making it a crucial aspect of college years (Sujata & Jayakumar, 2017). Physical activity during college years is one such factor that may influence psychological well-being of students. Individuals who engage have higher levels of psychological well-being compared to the ones who live a sedentary life (Powell, 2014) [33]. There is lack of research on role of sports in maintaining psychological well-being and happiness among college students in Indian context. The primarily aim of the current study was to investigate the role of sports in mental health of students and three variables i.e. stress, happiness and psychological well-being are studied in this regard. Based on review of literature following hypothesis were framed

1. Sports playing students will have lower levels of Stress.
2. Sports playing students will have higher levels of Happiness and psychological well-being than their peers.

Methodology

The sample for the current investigation consists of 100 male students of first year of college (Graduation), who were further divided on the basis of their participation in sports activity, that is, 50 who engage in sports on daily basis and 50 who are not into sports activities. Only those students were included who are not into competitive sports but play sport as a form of physical activity. The age group of the sample is 18-20 years. The sample was collected from the colleges of Chandigarh and Mohali. The students who belong to middle socio-economic families living in urban areas and have equal access to playgrounds and parks were included in final sample.

Measures:

Perceived stress scale (PSS)
The Perceived stress scale (Cohen, 1983) [8] is a 10-item instrument which asks participants to respond to a series of statements designed to evaluate the degree of stress experienced. It has strong psychometrics with coefficient alpha reliabilities ranging between .84 and .86.

Psychological Well-Being Scale (PWBS)
Psychological well-being scale (Ryff et al., 1995) [41] is an 18 item scale. All responses are made on 7-point scale ranging from 1 (strongly agree) to 7 (strongly disagree). This measure has adequate reliability of .70 (Ryff et al., 2007) [25].

General happiness Scale (GHS)
General happiness Scale is a 4 item scale designed to measure subjective happiness. Each of items is completed by choosing one of 7 options that finish a given sentence fragment.

Results

Table showing descriptive statistics and group differences on stress, happiness and Psychological well being

<table>
<thead>
<tr>
<th>Variables</th>
<th>Group-I</th>
<th>Group-II</th>
<th>t value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stress</td>
<td>20.2</td>
<td>29.1</td>
<td>10.4**</td>
</tr>
<tr>
<td>Happiness</td>
<td>17.2</td>
<td>11.7</td>
<td>6.48**</td>
</tr>
<tr>
<td>Psychological Well-Being</td>
<td>75.1</td>
<td>44.2</td>
<td>14.31**</td>
</tr>
</tbody>
</table>

*p≤ .01 level *p≤ .05 level
Group I= Students who engage in sports
Group II=Students who do not engage in sports

Discussion

The primary objective of this study was to study the role of sports in maintaining mental health through the variables of stress, psychological well-being and happiness among college students. The findings of this study that playing sports is related with lower level of stress among students are in line with previous researches (Anshel, 1996; Biddle, Fox & Bautcher, 2000; Nguyen-Michel et al., 2006; DeCamps et al., 2012) [2, 6, 35, 11]. Though the number of college students engaging in sports is less than average but physical activity is related to lower levels of stress among sports playing students (Lippke et al., 2015) [28] College time is a period of adjustment at inter as well as intrapersonal level and sports a mean of physical activity helps in reduction of reaction towards stress that comes up when life needs us to adjust and cope and respond to new experiences (Nguyen-Michel et al., 2006) [35]. Physical activity acts as an important coping mechanism in anxious situations and enhances positive affect in such conditions (Thome & Espelage, 2004) [46]. Sports activities during college life help students to build up resistance to stressful conditions and making them less prone to negativities of stress (Holland, 1997). Considering the deleterious effects of stress and sedentary behavior on health, these results have implications for lifetime physical and mental health.

The results show that students who engage in sports on regular basis are high on happiness quotient. Findings are consistent with various previous researches (Argyle & Martin, 1991; Csik-szentmihalyi & Wong, 1991; McHale, 2009; Ghasempour et al., 2013; Rasmussen & Laumann, 2013; Shrivani, Pourrabbasi & Khashayar, 2013; Shiat & Keikha, 2013; Huang & Humphrey, 2011) [3, 9, 17, 38, 19]. Participation in sports makes people happier by reducing stress levels and improving mood which in turn tends to make people happier, and also creates positive after effects which helps in bringing long-term happiness (Sullivan, 2014) [45]. Ghasemi, Abedi & Bagheban (2009) found that better physical health resulting from sports activity not only increases happiness but also motivates individual to participate in sports more, thus creating a circular relationship between sports and happiness. Health is a strong factor that through which sports

"23"
participation leads to higher levels of happiness (Huang & Humphreys, 2011) [19]. Availability of public sports facilities in close proximity of individual’s homes is another factor that positively influences happiness as participation is sports become more likely (Pawlowski, Breuer & Leyva, 2011) [30]. Students who engage regularly in sports have higher levels of psychological well-being than those who do not engage in sports. These findings are consistent with few other previous researches (Bozoian, Rejeski, & McAuley, 1994; Bray & Kwan, 2006; Powell, 2014) [17, 7]. Edwards & Ben (2008) [14] found sports skills and psychological well-being to be interrelated concepts. As sports participation for college students act as opportunity to improve their personal well-being (Keating et al., 2010) [23]. From a psychological perspective sports improves wellbeing by enhancing feelings of control, self-esteem and self-efficacy (Krawczynski & Olszewski, 2006) [26] and also leads to more positive social interactions. Moreover, individuals with high levels of self-efficacy are more likely to engage in physical activities and this circle keeps on adding in to psychological well-being (McAuley, Lox, & Duncan, 1993) [20]. In college students, exercise leads to better psychological health as it lowers down levels of depression and negative affect (Thome & Espelage, 2004) [30]. In addition to above cited benefits sports as a kind of physical activity also alleviates negative moods, reduces anger, and anxiety and also make students felt more socially integrated into their community as it gives opportunity to engage with members of community (Hassmen, Koivula, & Uutela, 2000) [18].

One of the limitations of study is that it included only male students. For more inclusive results female students also need to be included in sample. But this limitation stems from another limitation prevalent in our society. That is, female students have much less access to open spaces for sports and recreation as compared to their male counterparts. Another limitation is that sample in based in urban areas only, for further better comparisons students from rural areas should also be included.

Conclusion
The results of this study conclude that sports have a valuable influence on mental health of students. Sports participation not only reduces levels of stress among students but also improves happiness and psychological well-being. Considering the positive influence sports have on psychological health, health promotion programs for college students can benefit from incorporation of physical activity strategies to reduce stress and enhancing psychological well-being. It is important to encourage students to make sports a part of their lifestyle so that they can reap various physical, emotional and psychological benefit of this physical activity. Parents, teachers and administrators all should focus on making sports participation essential for the students.

References
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