Active Students Are Healthier and Happier Than Their Inactive Peers: The Results of a Large Representative Cross-Sectional Study of University Students in Ireland

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Background: Time spent in university represents a period of transition and may be an appropriate time to promote physical activity among young adults. The aim of this study was to assess participation of university students in sport and physical activity in Ireland and to explore the association between physical activity and perceptions of overall health, mental health, and happiness.

Methods: The Student Activity and Sport Study Ireland was a cross-sectional online survey among a representative sample (n = 8122) of university students in Ireland. Binary logistic regressions were performed to examine associations between self-reported physical activity and gender (predictor variables) and individual perceptions of overall health, mental health, and happiness (binary outcomes). Results: Only 64.3% of respondents met the recommended level of 150 minutes of moderate to vigorous physical activity per week with males significantly more active than females (72.1% vs 57.8% meeting guidelines). Those meeting physical activity guidelines were more likely to report greater overall health and higher mental health and happiness scores compared with their inactive peers. Conclusions: Active students enjoy better health (overall and mental) and are happier than their inactive peers. This provides a clear rationale for providing students with opportunities to be active at university. The data provide a baseline to monitor changes in physical activity patterns.

Keywords: physical activity, sedentary behavior, health

Physical activity is associated with multiple health benefits across the life course.1-3 Regular activity has been shown to play a role in the primary and secondary prevention of cancer, cardiovascular disease, diabetes, osteoporosis, and obesity.2 In addition to these physical health benefits, regular participation in physical activity is associated with a range of positive mental health–related outcomes,4 including reduced anxiety, stress, and depression2,5 enhanced cognitive function and academic performance.6

Despite the health benefits of regular participation, approximately one-third (31.1%) of adults are physically inactive.7 The transition from adolescence to adulthood,8 and in particular the transition to college/university provides an opportunity for influencing adult behavior.9 Young adults are exposed to a number of academic, physical, emotional, and social changes10 which coupled with changes in independence, and living situations among some students, may influence key health behaviors, such as alcohol use, nutrition, and physical activity.7

Physical activity levels decline as adolescents make the transition into adulthood.8,11,12 Furthermore, males entering university education may be most at risk from sharp declines in physical activity compared with those not continuing in education.8 A meta-analysis has highlighted that 40% to 50% of college students are physically inactive.13 Although self-reported physical activity levels of school children and working adults have been well-documented,7,14 there is less information on university students’ physical activity engagement, and few are based on representative or random samples.13,15,16

In addition to inactivity, the transition to university is associated with increased exposure to other health-risk behaviors, such as poor dietary intake and substance abuse.9 Research has indicated that while individuals “grow out” of health-risk behaviors, such as smoking and binge drinking as they progress from adolescence, such positive changes are typically not seen in physical activity behaviors.8

Approximately 1 in 5 young adults (aged 19–24 y) in Ireland experience mental health problems.17 College students may be at increased risk from mental health disorders, with higher prevalence reported compared with the general population.18 Hunt and Eisenberg19 report an increase in both the prevalence and severity of mental health disorders among college students. In addition to the negative impact, mental health disorders can have on overall health, such problems may also impact academic performance.20

It is well established that regular physical activity can have a positive impact on mental health–related outcomes in adults,4 reducing depressive symptoms and improving emotional well-being.3,21 Evidence has also demonstrated an association between higher levels of physical activity and higher levels of happiness.22 Studies in student populations have demonstrated a link between physical activity and reduced symptoms of stress23,24 and fewer reports of poor mental health.24 Much of this has been in North American populations and focused on vigorous physical activity as opposed to health-enhancing moderate to vigorous physical activity (MVPA). Given the low prevalence of physical activity and high prevalence of mental health problems in young Irish people, the relationship between MVPA and mental health–related outcomes in college students warrants further investigation.

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The increasing proportion of the population now progressing to university-level education is reflective of the transition of Ireland from a middle-income to high-income country between 1987 and 2000.25 According to Eurostat data, almost 58% of Irish women have completed third-level education compared with 44% of Irish men in 2012, with these levels the highest in Europe.26 The potential of colleges to influence uptake and maintenance of physical activity behaviors, and influence other related outcomes, such as mental well-being and happiness, is vast. There is limited data available on the physical activity levels of college students across the island of Ireland, and population surveillance is outlined as a key objective within the National Physical Activity Plan.27 Furthermore, the development of a framework for health promoting colleges to include physical activity was included as an action point within the national plan,27 highlighting the role that universities and colleges can play in promotion physical activity and other aspects of student well-being.

The aim of this paper was to assess the participation of university students in Ireland in sport and physical activity and to explore to what extent physical activity is associated with overall health, mental health, and happiness.

Methods

Study Design

The Student Activity and Sports Participation Survey Ireland (SASSI) was a 3-phase study commissioned by Student Sport Ireland to investigate sports and physical activity participation, preferences, and provision in colleges/universities on the island of Ireland. The methods and results contained within this paper include phase 2 of the study, a cross-sectional analysis of university students across the island of Ireland in 2014–2015. An audit of the environment and institutional provision for sport and physical activity comprised phase 1, and objective fitness measures were undertaken on a subsample of students in phase 3.

Sampling

In order to achieve a nationally representative sample, student data obtained from the Higher Education Academy (Republic of Ireland)28 and Department of Employment and Learning (Northern Ireland)29 enrollments within each institution were categorized into 10 “fields of study.” In each institution, random sampling of student groups was undertaken in proportion to the numbers of students studying at each year of study (including undergraduate and postgraduate) within each “field of study.” Once the sampling framework was applied to identify groups of students by year and field of study, all students attending the selected class were eligible for inclusion. A total of 41 higher education institutions were contacted to participate in the phase 2 SASSI student survey. Of this, 31 institutions responded, 4 declined to participate, 5 did not respond to contact, and 1 used an unapproved protocol (e-mailing the survey link to all students in the institution). From the 31 participating institutions, the total quota sought was 10,606.

Study Procedure

Each institution assigned a “SASSI champion” who was trained to facilitate recruitment and data collection. The SASSI champion was provided with a list of randomly selected class groups within their institution and sought permission from teaching staff within their institution to access the group during class time, either before the lecturer commenced or at the end of the lecture before the students were dismissed. In order to maximize response, the online survey was administered through SurveyMonkey (San Mateo, CA) to the entire class group (chosen using an online random number generator) in the appropriate year group and field of study during a timetabled hour. Surveys were either completed by students using a computer suite on campus or by using their own devices during regular (noncomputer-based) classes. Students were not able to access and complete the survey remotely using a web link to reduce the likelihood of self-selection bias.

The survey took approximately 20 minutes to complete. All surveys were completed between October and December 2014. The institutional champion introduced the survey outlining the objectives and assuring anonymity of responses. Survey completion was incentivized within each institution by entry into a prize draw could be exchanged for purchases at a range of retail stores or food outlets. The value of the prize varied by institution but was on average €100. One prize was provided by each institution. In order to verify that sampling by the champion took place as directed, the date stamps of responses was examined for each institution. Where the majority (>90%) of responses occurred in batches and within normal college hours, it was deemed likely that the survey administration protocol was adhered to.

Student Survey

The student survey was developed to assess students’ participation in sport and physical activity, perception of the institutional sports and physical activity environment, the enablers and barriers to participation (correlates), performance support for high-level and scholarship athletes, related health behaviors, and other demographics. Survey items were derived, where possible, from existing validated instruments. Items were selected in consultation with the Student Sport Ireland Research Management Group, and advice was sought from 3 international experts with considerable expertise in the design and analysis of physical activity surveys. The survey was piloted among members of the research team, SASSI champions, and students in 4 participating institutions, and amended accordingly based on feedback.

Ethical approval was granted by Ulster University and recognized by all participating institutions. Where this was not possible, champions sought local ethical approval for the study from their institution’s ethics committee.

Outcome Measures

Demographics

Sociodemographic information included student background information (age and gender, field and year of study, full-time or part-time) and other demographics (ethnicity, marital status, socioeconomic class, employment, and accommodation).

Physical Activity Behaviors

Physical activity was measured using the International Physical Activity Questionnaire-Short Form (IPAQ-SF),30 shown to be a valid and reliable measure of physical activity in this population.31,32 Using the IPAQ scoring protocol, participants were categorized as “high,” “moderate,” or “low” active,33 with
individuals categorized as “high” active being deemed as meeting minimum physical activity requirements. Participation in muscle strengthening activities was assessed using tools from the Children’s Sport Participation and Physical Activity Young Adult Study. Student’s knowledge of the physical activity guidelines was assessed using a modified question from the Health Survey for England. Mode of transport to college/university was assessed using a single-item tool previously used in the Children’s Sport Participation and Physical Activity Young Adult Study. In addition to overall levels physical activity, students were asked about their participation in a range of organized sports and recreational physical activities. Respondents selected up to 5 activities and indicated the frequency, duration, and intensity of these activities and whether they took place within and outside the college setting.

Sedentary Behavior

Domain-specific sedentary behavior was measured using a modified version of an instrument which has been assessed for gender-specific test–retest reliability and validity. The instrument required participants to estimate time spent sitting on weekdays and weekend days across 8 domains (attending class, while studying, for transport, at work, using a computer, using a smartphone/tablet, watching television, and during leisure time). Time spent sitting in each domain was summed together to provide an overall daily total for hours spent in sedentary behavior.

Body Mass Index

Body mass index (BMI, kg·m$^{-2}$) was calculated using self-reported height and weight. Students were classified as underweight (<18.5), normal weight (18.5 ≤ BMI < 25), overweight (25 ≤ BMI < 30), or obese (≥30) according to World Health Organization references values.

Self-Rated Overall Health

Self-rated overall health was assessed using an item from the Short Form Health Survey (SF-36). which asked respondents to rate their health over the past 12 months on a 5-point scale. Responses were dichotomized by grouping those reporting either average, poor, or very poor health, and those reporting very good or good health together.

Happiness

Happiness was assessed on a 10-point Likert scale adapted from the Sport and Physical Activity Survey. Responses were dichotomized into those with a score below 7 (the median average for happiness) and those with a score of 7 or above (happy).

Mental Health

Mental health was assessed using the Mental Health Index, adopted from the SF-36 questionnaire. A single score was calculated for mental health from a 5-item index. Those with a score equal to or below the recommended cutoff score of 52 were identified as having a “probable mental health problem,” while a score above 52 was indicative of higher levels of positive mental health and well-being.

Data Analysis

Data analysis was conducted using IBM SPSS Statistics (version 22; SPSS Inc, Chicago, IL). Descriptive statistics were derived to describe and summarize the dataset. Pearson’s chi-squared tests of independence were applied to investigate the association between meeting the physical activity guidelines and gender and year of study. Binary logistic regressions were performed to examine the associations between self-reported physical activity (meeting the guidelines, moderately active or inactive); gender; and individual perceptions of health, mental health, and happiness. Binary outcome variables were health, mental health, and happiness, and the predictor variables were level of physical activity and gender. Probability was set at $P < .05$.

Results

Response Rate

A total of 31 colleges participated in the student survey. Of this, 14 colleges achieved their target quota, 12 fell slightly below (within 10%) their target quota, and 5 colleges exceeding their target. Given that the study focused on physical activity and sport, respondents who did not complete any questions focused on physical activity were regarded as nonresponders and removed from subsequent analysis. In total, 9197 survey responses were collected, representing 87% of the target quota. Following the removal of nonresponders, 8122 survey responses were included in the analysis.

Demographics

The demographics of participants are in Table 1. Approximately half (50.9%) of respondents were females. The mean age of the sample was 23.17 years (SD = 6.75). The majority of participants were from a White ethnic background (91.2%), with other ethnicities including Asian (4.3%), Black (1.9%), mixed/multiple (1.6), and other (1.1%). Respondents were mainly undergraduate students (92.4%) enrolled in full-time courses (94.1%). Based on self-reported height and weight, 65.4% of respondents were classified as “healthy weight” (BMI score between 18.5 and 24.9; Table 1).

Physical Activity Levels

Only 64.3% of participants met the minimum physical activity guidelines of 150 minutes MVPA per week and 27.5% of participants were classified as “moderately active,” while 8.1% of participants were classified as inactive. Pearson’s chi-squared tests indicated that males (71.2%) were more likely to be meeting the guidelines compared with females (57.8%), $\chi^2(2, n = 7421) = 0.139; P < .001$; Figure 1. There were no differences in the proportion of students meeting the guidelines across each year of university ($P = .31$); 50.1% of females, and 31.9% of males reported undertaking no muscle strengthening activities in the past week.

Approximately one-third (31.8%) of respondents felt that they were not undertaking “enough physical activity to keep healthy.” A significant difference was observed between genders (24.2% of males compared with 38.9% of females, $P < .001$). Over one-quarter of students classified as inactive felt that they were sufficiently active for their health. Approximately one-third of respondents (35.7%) felt they were doing the same level of activity as this time last year, with 30.9% reporting doing more activity and 30.7% reporting doing less activity.

Approximately 31.5% of respondents correctly identified the physical activity guidelines as “a minimum of 30 minutes of

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physical activity per day,” while 1.5% correctly identified “at least 150 minutes per week of MVPA” as the volume and intensity of physical activity recommended to gain the associated health benefits. Females (39.3%) were significantly more knowledgeable about the physical activity guidelines than males (26.3%) (P = .01).

Approximately 40.3% of respondents stated that they actively commuted to college, either by foot (34.05) or bicycle (6.35%). Approximately one-third (32.6%) of students usually travelled to college by car. Just over a quarter of respondents (26.8%) usually travelled to college using public transport, such as bus (19.6%) or train/tram (7.2%).

### Sporting and Recreational Physical Activity Participation

Approximately one-third (34.8%) of respondents did not participate in any sporting or recreational activity in the last 4 weeks. Differences between genders were also observed, with 28.4% of males not participating compared with 40.9% of females (Figure 2). The lowest levels of participation were within college, where only 14.3% of respondents played sport, 18.3% participated inside and outside of college, and 32.5% reported participating only through outside organizations and facilities.
Weight training or cardio workouts were the most popular activities undertaken by respondents across all settings (i.e., inside and outside of college). Weight training, cardio workout, and walking were identified as the 3 most popular activities undertaken within the college setting. Of the top 13 sports identified within college, 10 were individual activities (e.g., walking, running, swimming, etc).

**Sedentary Behavior**

Respondents reported, on average, spending 12.1 hours (SD = 7.37) per weekday engaged in sedentary behaviors (studying, attending class, watching television, using computers, etc), compared with 10.1 hours (SD = 8.67) on weekends. A higher proportion of respondents reported spending at least 8 hours per day...
engaged in sedentary behaviors on weekdays (71.2%) compared with weekends (55.8%). Television viewing, computer use, and smartphone use were the largest contributors to overall sedentary time. Male students reported more noneducation-related sedentary screen time than females on both weekdays (4.3 vs 3.6 h·d⁻¹) and weekends (5.3 vs 4.4 h·d⁻¹) (P < .01).

**Associations Between Level of Physical Activity and Health-Related Outcomes**

**Perceived General Health.** The majority of respondents (55.6%) reported their health as good or very good (Table 2). Those meeting the physical activity guidelines were 2.2 times more likely to report good or very good health than those classified as inactive (95% confidence interval [CI], 1.839–2.712; P < .001; Table 3). Furthermore, those classified as “moderately” active were 35.6% more likely to report good or very good health (95% CI, 1.104–1.666; P = .004). Males were 22.9% more likely to report good or very good health compared with females (95% CI, 1.109–1.361; P < .001; Table 3).

**Mental Health.** The overall mean mental health score for respondents was 66.7 (SD = 19.96). Based on the cut point of a mental health score ≤52, 22.7% of students were categorized as having a “probable mental health problem” (Table 2). Those meeting the physical activity guidelines were 55% more likely to report better mental health than those classified as inactive (95% CI, 1.542–1.916; P < .001; Table 4). Those classed as “moderately” active were 23% more likely to report better mental health; however, this difference was not significant (95% CI, 0.983–1.541; P = .07). Males were also 23.3% more likely to report better mental health compared with females (95% CI, 1.092–1.392; P = .001; Table 4).

**Happiness.** The majority of respondents (64.7%) reported a high level of happiness (indicated by a score of 7 or above; Table 2). Those meeting the physical activity guidelines were 2.2 times more likely to report feeling happy than those classified as inactive (95% CI, 1.828–2.693; P < .001; Table 5). Those classified as “moderately” active were 46.6% more likely to report higher happiness (95% CI, 1.104–1.666; P = .004). Males were 23.3% more likely to report feeling happy than those classified as inactive (95% CI, 1.109–1.361; P < .001; Table 5).

<table>
<thead>
<tr>
<th>Table 2 Health-Related Characteristics</th>
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<td>Overall, N (%)</td>
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<td><strong>General health</strong></td>
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<td><strong>Mental health</strong></td>
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<tr>
<td>Good</td>
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<tr>
<td><strong>Happiness</strong></td>
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<tr>
<td>Happy</td>
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<tr>
<td>Unhappy</td>
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</table>

**Table 3 Differences in Perceived General Health (Very Good, Good) due to Physical Activity Level and Gender**

<table>
<thead>
<tr>
<th>Model 1</th>
<th>Odds ratio</th>
<th>95% confidence interval</th>
<th>P value</th>
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<tr>
<td>Physical activity level</td>
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<td>Inactive</td>
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<tr>
<td>Moderately active</td>
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<td>Female</td>
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<tr>
<td>Male</td>
<td>1.229</td>
<td>1.109–1.361</td>
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**Table 4 Differences in Perceived Mental Health due to Physical Activity Level and Gender**

<table>
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<th>P value</th>
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<td>Physical activity level</td>
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<tr>
<td>Inactive</td>
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<tr>
<td>Moderately active</td>
<td>1.231</td>
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<td>Meeting guidelines</td>
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<td>Male</td>
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**Table 5 Differences in Happiness due to Physical Activity Level and Gender**

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<tr>
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<tr>
<td>Moderately active</td>
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<tr>
<td>Male</td>
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**Discussion**

The aim of this paper is to assess the participation of university/college students in sport and physical activity in Ireland and to explore whether physical activity is associated with health, mental health, and happiness.
In this study, 64.3% of participants (72.1% males and 57.8% females) met the minimum physical activity guidelines of 150 minutes MVPA per week. Recent population level data from the Healthy Ireland Survey reported 56% of men aged 15–24 years were achieving the physical activity guidelines, decreasing to 52% of men aged 25–34 years. Consistent with SASSI findings, females in the general population were less likely to meet the guidelines than males, with 34% of women aged 15–24 years and 32% aged 25–34 years meeting the guidelines. These data highlight that university/college students in Ireland, particularly females, are considerably more active than their counterparts in the general population. In addition to the guideline for levels of MVPA, the SASSI survey also highlighted low levels of muscle strengthening activities, with 50.1% of females and 31.9% of males reported undertaking no muscle strengthening activities in the past week.

Approximately one-third of students (35.7%) were not meeting the physical activity guidelines within the SASSI survey. A previous meta-analysis by Keating et al highlighted inactivity levels in the range of 40% to 50% among students, which is higher than the levels reported in the present study. Data across other countries have reported varying levels of inactivity among college students, with approximately half of students in the United States and Canada and approximately 40% of Australian students not meeting the guidelines for physical activity. More recent data from Pengpid et al have highlighted the wide variation, with the proportion of undergraduate college students categorized as inactive ranging from 22% to 81% across 23 countries. The significant gender differences reported within the SASSI survey are consistent with previous research.

Some of the inconsistencies in inactivity levels observed across studies may be attributed to the different measures employed within studies to measure physical activity levels. Research by Downs et al demonstrated that the use of the IPAQ may overestimate levels of MVPA by up to 45 minutes per day compared with accelerometer-derived data. Within the SASSI study, moderate correlations were found between the IPAQ and accelerometer-derived levels of MVPA, indicating that is a suitable tool for measuring physical activity among college students, consistent with previous findings.

The present study also assessed levels of sedentary behavior among students, highlighting that a greater proportion of students were engaged in at least 7 hours per day of sedentary behavior during weekdays (72.3%) compared with weekends (55.8%). Accelerometer-derived sedentary behavior has highlighted similar high levels of sedentary behavior among UK adults. Data on self-reported sitting time among the general population in Ireland indicated that young people aged 15 to 24 years spent the most time sitting (6.3 h•d⁻¹), with females aged 15 to 24 years found to be the most. No significant differences were observed between genders within the present study. A review of the evidence from 3 systematic reviews concluded that although the heterogeneity of the measures used in studies of sitting and health outcomes make it difficult to draw conclusions about dose–response relationships, the data suggest that those who sit for >8 hours per day have significant health risk. With mean self-reported sedentary time of 12.1 hours on weekdays and 10.1 hours on weekend days, it is clear that this population of students are likely to be damaging their health through excessive time spent in sedentary pursuits.

Research to date on the relationship between physical activity and sedentary behaviors among college students has been inconsistent. However, a number of correlates have been identified, for example, individual factors, social networks, the physical environment, and advertising and media, which may influence both behaviors in college students. Educational institutions present an ideal vehicle for lifestyle interventions to promote physical activity and reduce sedentary behaviors among university students. Access to resources, health care professionals and research expertise, within a learning environment, provides an ideal platform for influencing and changing health behaviors in this population. Given the observed levels of inactivity and sedentary behavior within the present study, further research is warranted to further explore the determinants of physical activity and the role of interventions in favorably changing health behaviors among college students.

Over half of students (55.6%) reported their general health as very good/good within the present study. The results observed within the SASSI survey are significantly lower compared with other college cohorts; for example, 92.3% of American students reported their health to be excellent, very good, or good in the National College Health Assessment II study. Previous studies among the general population in Ireland have also reported higher ratings; 88% of adults in the SLÁN survey and 92% of 15- to 24-year-old adults in the Healthy Ireland Survey. Given the lower ratings observed within the present study and the range of variables that may impact upon student health, for example, mood, social support, and sleeping habits, the overall health of college students and the determinants influencing student health warrants further investigation.

Within the SASSI study, respondents who reported meeting the physical activity guidelines were twice as likely to report feeling healthy as those classified as inactive, with males 22.9% more likely to report feeling healthy compared with females. Meeting the physical activity guidelines for MVPA has been previously shown to be positively associated with a positive perception of general health status among American college students, highlighting the association between physical activity and protective health factors.

The average mental health score of students within the SASSI study was 66.7, again representing a deviation from the general population where mean scores were reported as 86.3 and 81.6 for males and females aged 15–24 years respectively. A previous study in a smaller sample of Irish students (n = 1000) recorded a mean score of 72.6. The observed differences in mental health scores among students compared with the general young adult population may be attributable to personal, developmental, and social issues, coupled with the pressures of combining study and paid employment. Furthermore, the changing landscape of third-level education may diminish some of the protective factors against developing mental health problems during college. Increased student numbers, larger class sizes, and reduced personal support from academic staff may impact upon student experiences in relation to making friends and developing a sense of belonging.

Meeting the physical activity guidelines was also associated with higher mental health scores among respondents within the SASSI survey, with those meeting the guidelines 55% more likely to report better mental health than those classified as inactive. Males were also 23.3% more likely to report better mental health compared with females. Depressive symptoms have previously been highlighted as a risk factor for physical inactivity among college students. The associations observed between physical activity and mental health are consistent with previous research in college students. Students meeting the recommendations for vigorous physical activity have been shown to be more likely report...
positive mood profiles (lower fatigue and higher vigor) and have reduced depressive symptoms compared with their inactive peers. The gender differences observed within the SASSI survey reflect the consensus that female students are more likely to report and screen positive for major anxiety disorders and depression. Given the prevalence of mental health disorders and suicide rates, particularly among young Irish males, third-level institutions have a duty to promote mental health and well-being. Hassles, such as “academic bureaucracy,” “family expectations,” and “financial security” have been shown to have a negative impact on physical activity levels and may represent avenues that third-level institutions can target to reduce distress, and subsequently improve physical activity behaviors among students. Furthermore, the promotion of physical activity, and physical self-esteem, among students may play a role in improving overall quality of life.

There is currently a paucity of data examining the relationship between happiness and health-related behaviors in college students. Limited evidence has suggested a possible role for physical activity in improving levels of happiness. The majority of respondents within SASSI reported high levels of happiness, with those meeting the physical activity guidelines twice as likely to report feeling happier than those classified as inactive. A cross-sectional study of European countries highlighted a positive dose–response relationship between happiness and physical activity levels. A survey among Chilean students found a moderate association between daily, regular exercise and happiness. Promoting the potential role of physical activity on overall well-being, including mental health and happiness, may play a role in engaging students in positive health behaviors.

There are a number of limitations that should be taken into consideration when interpreting the findings of this study. A cross-sectional survey design was undertaken; therefore, casual relationships between physical activity and health, mental health, and happiness cannot be drawn. Physical activity was measured using a self-report instrument, yet this was validated in a subsample of participants. Health, mental health, and happiness were dichotomized based on self-reported perceptions. Future studies should seek to further explore the reported associations through the use of objective measurement tools (pedometers, accelerometers) and objective measures of assessing physical activity–related outcomes.

Conclusions

The SASSI study is the first representative, large-scale survey of student physical activity and sport participation across Ireland. This research provides a baseline marker for physical activity levels and sedentary behavior among university students, which will allow for future monitoring and evaluation of interventions and policy changes. The observed associations between health-enhancing levels of physical activity and health-related outcomes, such as general health, mental health, and happiness have been previously understudied in this population and warrant further investigation within studies employing objective measures and longitudinal design. Active college students enjoy better health and are happier than their inactive peers. College represents a key period to engage and influence numerous health behaviors among young adults, and the role that physical activity can play in improving both physical and mental well-being should not be overlooked by third-level institutions as they seek to improve student well-being. The findings of the study should help policymakers within and outside the third-level education sector to determine the most appropriate target groups for physical activity interventions and determine which interventions might hold the most promise for increasing activity. In addition, both the methodology and the findings provide a useful comparator for other countries wishing to monitor physical activity in this college-aged population.

Acknowledgments

Joey Murphy (DCU, UL), Neal Byrne (WIT) and the SASSI champions for data collection. This study was funded by Student Sport Ireland.

References


