PERCEIVED FACTORS KEEPING STUDENTS IN OR AWAY FROM DOING SPORTS AND PHYSICAL ACTIVITIES IN TAIWAN REGION

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Abstract:
In the last six or so decades, researchers have investigated, proved and shown the benefits of sports and physical activities on students’ physical and mental health, academic performance and overall personal development. However, many researchers found that more and more students were staying away from sports and physical activities. Today, more than 80% of adolescent and 40-50% of college students globally did not meet the current physical activity per day recommended by the World Health Organization, thus keeping them unhealthy and unfit. This led researchers around the world to investigate the perceived facilitators and barriers that keep students away from these healthy activities. But, so far Taiwan region is concerned, no internationally published study has been done on this topic. To fill up the gap, the present quantitative, descriptive cross-sectional study investigated what perceived benefits and barriers keep in or away Taiwanese students from doing sports and physical activities. 9 self-designed multiple-choice paper survey questionnaires were administered among 199 students of different age groups, studying at different class levels at three educational institutes in New Taipei City, Taiwan during the six months, April to October, 2021. The collected data was then analyzed using Microsoft Excel Pivot table. Results: 82% of students knew doing physical activities could keep them physically and mentally healthy, but only 28% did enough exercise. Main responsible factors were: too much school works, part-time jobs, not enough social encouragements, lack of interest, no self-confidence in sports, and lack of knowledge respectively.
1. Introduction

1.1 Background and Literature Review
In the last six decades or so, many researchers, scholars and experts have investigated and published many research papers, articles, theses and dissertations on the correlation between education and sports and physical activities, the impact and benefits sports and physical activities offer on students’ physical health, mental health, as well as on academic achievements. In spite of all these research findings and benefits offered, on the contrary, the number of students involving in sports and physical activities is decreasing significantly day by day. One study published in The Lancet Child & Adolescent Health journal produced by researchers from the World Health Organization, finds that more than 80% of school-going adolescents globally did not meet current recommendations of at least one hour of physical activity per day. This finding was based on the study conducted during 2001-2016, and reported by 1.6 million 11 to 17-year-old students across 146 countries around the world (The Lancet Child & Adolescent Health, 2021). So, many researchers around the world have investigated what keeps in or away students away from doing these healthy physical activities.

But, so far Taiwan is concerned, no internationally published study has been done on this topic. Thus, the main purpose of this study is to investigate and find out what facilitators keep in or barriers keep away these students from doing sports and physical activities, and discover the ways to encourage them to involve in these healthy activities to keep them physically and mentally healthy, which will eventually lead them to achieving better academic achievement, and success in life in the long run.

To paraphrase Gorton (2010), since the publication of James Coleman’s classic The Adolescent Society (1961), a large number of researchers like Eidsmoe (1961), Edwards
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(1967), Rehberg & Schaefer (1968), Schafer & Armer (1968), Spady (1970), Hanks & Eckland (1976), Otto & Duane (1977), Landers & Landers (1978) have been inspired and many further researches have been done and published on the impact of sports on academic achievement.

The inspiring train continued. In their research literature review, Tomporowski, Davis, Miller, and Naglieri’s (2008) stated that systematic exercise programs may actually enhance the development of specific types of mental processing known to be important for meeting challenges encountered both in academics and throughout the lifespan. Mohammad, Asif, Umar & Uzma (2012) found that there is a link between participation in sports and academic performance. They found sports activities had positive influence by enhancing memory, academic focus, concentration, improving grades, and ability to succeed academically.

In his study for Master’s thesis, Prasad (2012) compared two groups of students from decile 1 and decile 2 schools. It was found that students who participate in sports generally do better than those who do not. His support for this statement lied in the number of students who reported playing a sport compared with those reported with no sport involvement. Prasad stated that in school 1, of the 52 students who participated in the study, 83% of the students were sports participants compared to school 2’s 68% of 34 students.

On their review on literature, Michael, Merlo, Basch, Wentzel, & Wechsler (2015) summarized and highlighted the critical connection between health and academic achievement. They stated that the evidence in their literature review supports the need for school health services by demonstrating the association between chronic conditions and decreased achievement. Donnelly et al. (2016) also found the evidence to suggest that there are positive associations among physical education, fitness, cognition, and academic achievement. Based on the evidence available, they concluded that physical education has a positive influence on cognition as well as brain structure and function.

Not only physical activities improve academic achievement, Andersen et al.’s (2017) study revealed that there is a positive effect of physical fitness even on attendance in post-compulsory education by establishing the relation between physical fitness, academic achievement and post-compulsory education commencement, concluding that physical fitness helped more students to attend higher study.

In a two-year, with three-time points longitudinal study of five public junior high schools in two suburban municipalities in Okinawa prefecture, Japan from April 2015 to July 2017, Kyan, Takakura, & Miyagi (2018) detected a possibility that an increase in physical fitness leading to good academic achievement among junior high school boys, regardless of between-person differences of physical level.

In a two-semester study in a Shanghai high school to examine the effect of a strengthened physical education pilot program consisting of specialized sports training on students’ academic performance in the high school context, Zhang, Ma, Zhao, Shen, & Jiang (2019) found that strengthened physical education had a significantly positive
effect on overall academic performance among the high school students, especially in Chinese language and English language scores.

In his qualitative-longitudinal case study of a high school student for two semesters to investigate the impact of exercise, sports participation and physical activities on academic performance, Ngangbam (2020, not published yet) found a very significant change on the part of the studied subject. Not only changed in his attitude from indifference to seriousness in the class, it was found that the subject of study also improved his score from 80% to 95% in his English test.

Recently, in their longitudinal study of 7, 11 and 14 year old students, Vasilopoulos, & Ellefson (2021) examined the relationship amongst physical activity, self-regulation in a multi-dimensional approach and educational outcomes. They found out that emotional regulation was linked to physical activity in early childhood to subsequently affect academic achievement. Not only sports and physical activities improve students’ physical health and mental health, it also directly influences social cognition, the processes by which people draw inferences about other people’s belief and intentions, and how people weigh social situational factors in making these inferences (Lopez, Vera, Lopez V., Jaramillo, 2020).

In spite of all these studies, proofs, and benefits sports and physical activities offer to student community, studies consistently show that physical activity have been declining day by day sharply among students. The decline in physical activity during adolescence is a key public health concern today. Declines are reported with both self-report, and objective measures of physical activity. Similarly, declines are documented in cross-sectional, and longitudinal studies. According to Kenneth, Edward, John, Daria & Hyacinth (2007), age-related declines in physical activity are reported in several countries, including the USA, Canada, Finland, and in Amsterdam.

Considering the declining trend in the adolescent and adulthood, Crumbley, Ledoux, and Johnston (2019) talked about the importance of instilling a habit of doing physical activities during childhood. They stated that as physical activity and sedentary behaviors are developed during the early childhood period, for physical activity to occur in children, parents should also be engaged in and model the physical activity behaviors, increasing the likelihood of young children learning to be physically active.

Seeing the declining trend in physical activity level, many researchers started to investigate the facilitators and barriers, the responsible factors which either help students to stay in or away from doing sports and physical activities. In the past decades, researchers in many countries, especially in the USA, Canada, Europe and some countries of Asian continent have already done researches and investigations on why larger part of student community stay in or away from doing sports and physical activities, found out the factors, and published in public domain. From the research results, it is found that every country has its own responsible benefits and barriers depending on the socio-cultural and socio-economic background, demographic structure and other factors. Some factors were found quite common while other factors were unique and different from country to country.
The influencers which keep students in or away from doing sports and physical activities can be divided into two categories as internal and external influencers. In their study at Baskent University Faculty of Health Sciences in Turkey, Arzu, Tuzun, & Eker (2006) found that lack of time due to busy lesson schedule, parents’ giving priority on academic success over exercise, and lack of time due to responsibilities related to the family and social environment were the important external factors for university students staying away from sports and physical activities.

A study investigated by Manuel, Antonio and Antonio (2010) in the University of Almeria (Spain) found that the main barriers were lack of time and lack of social support as for external barriers while not liking the physical activity, not seeing its practicality or usefulness, feeling lazy or with apathy, or thinking that they were not competent in this type of activities were the internal barriers. In their study, Rodolfo, Anna and Oscar (2014) also found that among Spanish university students, too much work and lack of time for exercise were the two highest external barrier factors while fatigue - laziness has been the most highlighted internal barriers.

Regarding internal barriers, in one study in Musket, Oman by Youssef, Shafie, Al-Mukhaini and Al-Balushi (2013), it was found that substantial proportions of students expressed other recreational activities were more entertaining than exercising (72.2%), having limited energy to exercise (43.3%) and thinking that exercise was difficult and too tiring (40.1%). Only 18.0% were not thinking that exercise has positive health effects. As for external barriers, a high proportion of students agreed that parents give priority to academic success (71.5%) or that they lacked leisure time due to academic responsibilities (65.4%). Other perceived external barriers were lack of exercise equipment in the home (53.5%) and lack of leisure time because of social and family responsibilities (39.6%).

In their study in western part of Saudi Arabia, Awadalla, AboeyJazed, Hassanein, Khalil, Aftab, Gaballa, and Mahfouz (2014) stated that the significant barriers among physically inactive students were: time limitations as the biggest factor (51.3%) followed by lack of accessible and suitable sports places (31.1%), other important priorities (28.1%), lack of friends to encourage (27.8%), lack of support and encouragement from others (23.2%); lack of safe sporting places (22.8%), high cost (17.7%) as the external factors while lack of motivation (19.6%), not being interested in sports (18.5%), lack of sports skills (17.8%), and feeling tired on physical activity (15.8%) as the internal barriers.

Smetaniuk, T. et al. (2017) explored the physical activities and sedentary behavior of Canadian Master of Physical Therapy university students as well as the associated facilitators and barriers. In their study, they explored a full 74% of participants did not meet the recommended physical activity guidelines. Barriers to physical activity included academic pressure to perform, inconsistent and interrupted scheduling due to clinical placements outside their university community, limited time, fatigue, classroom design, and weather. Besides these barriers, the Master Physical Therapy students also identified facilitators which could help them do physical activities, like social supports, purchasing memberships to instill a sense of obligation, active transportation, and team sports.
In their study of the “Correlation between physical activity and self-efficacy in Chinese university students”, Hao and Xia (2017) found that self-efficacy plays an important role in influencing the Chinese university students to involve in physical activities. Self-efficacy refers to a person’s belief in his/her ability to execute behaviors necessary to achieve desired outcomes. It is associated with many health behaviors such as smoking cessation and physical activity. It determines whether health behavior change will be initiated, how much effort will be expended, and how long it will be sustained in the face of obstacles and failures.

Alkhateeb, Alkhameesi, Lamfon (2019) stated that among the university students in Saudi Arabia, the most common barrier for not practicing exercise among the university students was time restrictions, accounting for 18.5% of all the reasons, followed by lack of motivation (16.1%), unsuitable weather (7.2%), and low income (2.6%).

1.2 Why this Research
So far Taiwan region is concerned, there is no such known locally representative and internationally published research on this topic of facilitators and barriers which can keep students in or away from doing sports and physical activities. By finding out the these influencers which keep students in or away from doing these very beneficial physical activities through this present research, people, especially teachers, parents and concerned institutes and authorities in Taiwan region can understand better the importance of doing sports and physical activities, and can encourage students to do exercise, sports and physical activities regularly for their physical and mental health, moral behavior, academic performance, and help overall personality development in Taiwan region. This research also will open the door wide for future researchers.

2. Method

The present research is a quantitative, descriptive cross-sectional study. The present research used a self-designed survey questionnaire consisting of 9 questions with multiple-choice answers. With permission from the classroom teachers, the 9 multiple-choice paper questionnaires was distributed among the surveyed students. To investigate the perceived facilitators and barriers to physical activities, the present research focused on collected statistical data from students during the months of April to October, 2021, which can fairly represent the students’ population in Taiwan, especially high school and college students. Once the students finished marking their answers, the questionnaires were collected and entered in the Microsoft Excel software for further study.

For data analysis, Microsoft Excel Pivot table was utilized. Through Microsoft Excel, the entered raw data was coded and converted into statistical numbers. Using the Microsoft Excel Pivot table, the converted statistical numbers were then transformed to pie chart and put to table for clear display of the results of frequency of distribution and
percentage. The following table shows the 9 self-designed multiple-choice paper survey questionnaire.

<table>
<thead>
<tr>
<th>Multiple-choice questions</th>
<th>Answer A</th>
<th>Answer B</th>
<th>Answer C</th>
<th>Answer D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Do you do exercise or sports? If yes, how many times a week?</td>
<td>A) 1 time</td>
<td>B) 2 times</td>
<td>C) 3 times</td>
<td>D) More than 3 times</td>
</tr>
<tr>
<td>2. If you don’t like exercise or sports, then please give reason/s.</td>
<td>A) Not interested</td>
<td>B) I’m not good at sports</td>
<td>C) I don’t need it</td>
<td>D) Others</td>
</tr>
<tr>
<td>3. If you do exercise or sports, then please give reasons.</td>
<td>A) Health and fitness</td>
<td>B) Friends and family</td>
<td>C) Interest</td>
<td>D) Give other reasons</td>
</tr>
<tr>
<td>4. If you don’t do exercise or sports, then please give reasons.</td>
<td>A) School and study works</td>
<td>B) Family chore</td>
<td>C) Part-time job</td>
<td>D) Other reason/s</td>
</tr>
<tr>
<td>5. Do you think your school provides enough PE classes for your health and fitness?</td>
<td>A) Yes</td>
<td>B) No</td>
<td>C) Maybe</td>
<td>D) I have no idea</td>
</tr>
<tr>
<td>6. Do your parents encourage you to do sports or exercise?</td>
<td>A) Yes</td>
<td>B) No</td>
<td>C) Sometimes</td>
<td>They don’t care.</td>
</tr>
<tr>
<td>7. Do your school teachers encourage you to do sports or exercise?</td>
<td>A) Yes</td>
<td>B) No</td>
<td>C) Sometimes</td>
<td>They don’t care.</td>
</tr>
<tr>
<td>8. Do you think doing regular exercise or sports can help you to do better in you study?</td>
<td>A) Yes</td>
<td>B) No</td>
<td>C) Maybe</td>
<td>D) I have no idea</td>
</tr>
<tr>
<td>9. Do you think doing regular exercise or sports can keep your mind and body healthy?</td>
<td>A) Yes</td>
<td>B) No</td>
<td>C) Maybe</td>
<td>D) I have no idea</td>
</tr>
</tbody>
</table>

2.1 Participants
199 high school and College students from Hungkuo Delin University of Technology, Nan Chiang Vocational Senior High School, and Qingshui High School in New Taipei City, Taiwan joined the survey. Though 199 student sample was not a big sample and they were studying in New Taipei City, they pretty fairly represented the student community of Taiwan as they were from different parts of Taiwan. These students belonged in the age group of 15 to 25 who were studying in different grades.

3. Results
The following Table 2 shows each of the 9 questions used during the survey which were analyzed using Microsoft Excel Pivot Table.
Table 2: Results of the 9 questions with multiple-choice answers

<table>
<thead>
<tr>
<th>Multiple-choice questions</th>
<th>Answer A</th>
<th>Answer B</th>
<th>Answer C</th>
<th>Answer D</th>
<th>No response</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Do you do exercise or sports?</td>
<td>A) 1 time 58 (29%)</td>
<td>B) 2 times 55 (28%)</td>
<td>C) 3 times 24 (12%)</td>
<td>D) More than 3 times 56 (28%)</td>
<td>6 (3%)</td>
</tr>
<tr>
<td>If yes, how many times a week?</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. If you don’t like exercise or sports, then please give reason/s.</td>
<td>A) Not interested 57 (29%)</td>
<td>B) I’m not good at sports 49 (25%)</td>
<td>C) I don’t need it 14 (7%)</td>
<td>D) Others 33 (16%)</td>
<td>46 (26%)</td>
</tr>
<tr>
<td>3. If you do exercise or sports, then please give reasons.</td>
<td>A) Health and fitness 58 (29%)</td>
<td>B) Friends and family 55 (28%)</td>
<td>C) Interest 24 (12%)</td>
<td>D) Give other reasons 56 (28%)</td>
<td>6 (3%)</td>
</tr>
<tr>
<td>4. If you don’t do exercise or sports, then please give reasons.</td>
<td>A) School and study works 73 (37%)</td>
<td>B) Family chore 26 (13%)</td>
<td>C) Part-time job 39 (20%)</td>
<td>D) Other reason/s 36 (18%)</td>
<td>25 (12%)</td>
</tr>
<tr>
<td>5. Do you think your school provides enough PE classes for your health and fitness?</td>
<td>A) Yes 67 (34%)</td>
<td>B) No 41 (21%)</td>
<td>C) Maybe 70 (35%)</td>
<td>D) I have no idea 20 (10%)</td>
<td>1 (0%)</td>
</tr>
<tr>
<td>6. Do your parents encourage you to do sports or exercise?</td>
<td>A) Yes 89 (45%)</td>
<td>B) No 29 (14%)</td>
<td>C) Sometimes 49 (25%)</td>
<td>They don’t care 32 (16%)</td>
<td></td>
</tr>
<tr>
<td>7. Do your school teachers encourage you to do sports or exercise?</td>
<td>A) Yes 100 (50%)</td>
<td>B) No 37 (19%)</td>
<td>C) Sometimes 40 (20%)</td>
<td>They don’t care 22 (11%)</td>
<td></td>
</tr>
<tr>
<td>8. Do you think doing regular exercise or sports can help you to do better in your study?</td>
<td>A) Yes 90 (45%)</td>
<td>B) No 13 (7%)</td>
<td>C) Maybe 75 (38%)</td>
<td>D) I have no idea 20 (10%)</td>
<td>1 (0%)</td>
</tr>
<tr>
<td>9. Do you think doing regular exercise or sports can keep your mind and body healthy?</td>
<td>A) Yes 163 (82%)</td>
<td>B) No 3 (1%)</td>
<td>C) Maybe 26 (13%)</td>
<td>D) I have no idea 7 (4%)</td>
<td></td>
</tr>
</tbody>
</table>

4. Discussion

In the last 60 years or so, many scholars, experts in the field of education, sports and psychology have done many researches about the benefits sports and physical activities offer to student community. But today, more and more students are found staying away from sports and physical activities, thus keeping student community unhealthy and unfit. The main purpose of the present research is to find out the perceived benefits and barriers which are responsible for keeping in or away Taiwanese students from doing sports and physical activities.

**Question 1:** Do you do exercise or sports? If yes, how many times a week?
A) 1 time,
B) 2 times,
C) 3 times,
D) More than 3 times.
Figure 1 of question 1 shows that out of total 199 adolescent and college students, 56 (28%) students do enough exercise, at least the number of sessions is concerned. The remaining 143 (72%) students either don’t do, do little, or do not meet the 60 minutes per day of moderate-to-vigorous intensity physical activities for adolescents and at least 150–300 minutes of moderate-intensity aerobic physical activity, or at least 75–150 minutes of vigorous-intensity aerobic physical activity recommended by the World Health Organization.

**Question 2:** If you don’t like exercise or sports, then please give reason/s.
A) Not interested,
B) I am not good at sports,
C) I don’t need it,
D) Give other reason ----

Figure 2 shows why students don’t involve in regular sports, exercise or any physical activities. Out of 199 students, 57 (29%) students chose “Not interested” as the first internal barrier. This was followed by the second internal barrier – “I am not good at sports” with 49 (25%) students. It means “interest” plays a big role.
**Question 3:** If you do exercise or sports, please give reason/s why?
A) Health and fitness,
B) friends & family members,
C) interest,
D) Give other reason

**Figure 3:** Reasons for doing exercise/sports

<table>
<thead>
<tr>
<th>Reason</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A) Health &amp; fitness</td>
<td>29%</td>
</tr>
<tr>
<td>B) Family &amp; friends</td>
<td>28%</td>
</tr>
<tr>
<td>C) Interest</td>
<td>12%</td>
</tr>
<tr>
<td>D) Other reason/s</td>
<td>3%</td>
</tr>
</tbody>
</table>

On the other hand, Figure 3 shows interest is the least choice students made on why students do sports or physical activities. Out of 199, only 24 (12%) of them do because of “interest” while 55 students (28%) chose “health and fitness” and another 58 (29%) opted “family and friends” as the reasons why they do sports and physical activities.

**Question 4:** If you don’t do regular sports or exercise, then what keeps you away from doing exercise or sports?
A) School and study works,
B) family chores,
C) part time job,
D) Other reason/s.

**Figure 4:** External factors for not doing exercise/sports

<table>
<thead>
<tr>
<th>Reason</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A) School &amp; study works</td>
<td>37%</td>
</tr>
<tr>
<td>B) Family chores</td>
<td>13%</td>
</tr>
<tr>
<td>C) Part-time job</td>
<td>20%</td>
</tr>
<tr>
<td>D) Other reason/s</td>
<td>18%</td>
</tr>
</tbody>
</table>
In Figure 4, among the external barriers, “School & study works” is the highest students opted. Out of 199 students, 73 (37%) chose school and study works as the biggest factor which keep them away from sports or physical activities. It is followed by “Part-time jobs” with 39 (20%) students. Only 26 (13%) chose “family chores” as the external barrier which keep them away from sports and physical activities. So, concerned authorities need to discuss if students are kept too busy on study sacrificing their health.

**Question 5:** Do you think your school provides enough PE classes for your health and fitness?
A) Yes,
B) No,
C) Maybe,
D) I have no any idea.

From Figure 5, it can be seen that out of 199 students only 41 (21%) of them think the given physical education classes (2 periods) are not enough for health and fitness. The remaining 151 (79%) of the students are not even aware of how much time they need to spend on physical or sports activities to stay healthy and fit. In their study, Ching-Lin Wu and Chen-Kang Chang (2019) reported that only 12.1% of 15–18 year-olds (19.4% of boys and 5.8% of girls) met the World Health Organization standard of at least 60 min of moderate to vigorous physical activity per day followed by more alarming result with only 5.4% younger children of 13–15 year-olds (8.7% of boys and 1.9% of girls) meeting the WHO standard. In addition, only 5.8% of 7–12 year-old boys and 2.8% of girls participated in moderate physical activity more than 4 times a week. It clearly indicates that children and youth in Taiwan are not receiving sufficient levels of physical activity in schools.

**Figure 5: Opinions on the frequency of PE classes**

**Question 6:** Do your parents encourage you to do sports or exercise?
A) Yes,
B) No,
C) Sometimes,
D) They don’t care.

**Figure 6: Parents’ role on doing exercise/sports**

From the result of question 6 in Figure 6, it can be seen that social support also plays a very important role in deciding whether adolescent students would involve or not in sports or physical activities. From the column chart, it can be clearly seen that out of 199 students 89 (45%) of them chose “Yes” while 49 (25%) chose “Sometimes” 32 (16%) “They don’t care” and 29 (14%) chose “No” respectively. From the figure, it looks like more parents encourage their children do sports and physical activities. But the truth is that the remaining 110 (55%) of parents don’t encourage their children to do these healthy activities. Even the 45% of parents’ encouragement doesn’t ensure their children would do these physical activities. Thus, this figure shows that social support, especially from parents play a very important role in helping students in doing sports and physical activities.

**Question 7:** Do your school teachers encourage you to do sports or exercise?
A) Yes,
B) No,
C) Sometimes,
D) They don’t care.

Next to parents, teachers also play a very big role in encouraging students to do sports and physical activities. As can be seen from pie chart in figure 7, the support students get from teachers is pretty good with 100 (50%) out of 199 students chose the answer “Yes”. It means another 50% of teachers don’t give enough support to their students, thus leading adolescent and college students stay away from such good habits.
Question 8: Do you think doing regular exercise or sports can help you to do better in your study?
A) Yes,
B) No,
C) Maybe,
D) I have no idea.

In question 8, “Do you think doing regular exercise or sports can help you to do better in your study?”, 45% of students answered “Yes” while 55% of them were not sure if sports and physical activities can help them in their academic performance.

Question 9: Do you think doing regular exercise and sports can keep your mind and body healthy?
A) Yes,
B) No,
C) Maybe,
D) I have no idea.
From the last Figure 9 of question 9, one very interesting fact comes out. Out of total 199 students, 163 (82%) students know that doing regular sports or physical activities can keep them healthy physically and mentally. 26 (13%) students chose “Maybe”, 7 (4%) “I have no idea” and only 3 (1%) students chose “No) respectively. It means most of the students (82%) know and agree that doing sports and physical activities can keep them healthy physically and mentally, but only 28% of them spend enough time on sports or physical activities per week. It means they need encouragement. Boiché and Sarrazin (2009) found that parental support and the value parents’ grant to sport were positively associated with children’s sport participation. So do with teachers. When parents place increasingly greater importance on physical-sport practice, the likelihood of their children being physically inactive is greatly reduced (2012). From figures 2 and 3, it is also clear that external factors influenced student community more than internal factors.

From this study, it can be concluded that among the important factors which keep students in or away from doing sports and physical activities are: too much school works, part-time jobs, and not enough social encouragements, lack of interest, no self-confidence in sports, and lack of knowledge respectively.

5. Limitations of the study

Although this is a quantitative, cross-sectional study among Taiwan students, the data was collected only from 199 high school and college students as well as only from 3 institutes in New Taipei City. Elementary and university students were not covered. Also, some more questions can be added, and the present self-designed questions can be modified if necessary. The result would be even more complete, accurate, and reliable if the sample data were collected in a large scale from different educational institutes from around Taiwan.
6. Conclusion

In spite of all the benefits sports and physical activities offer, the rate and number of students involving in sports and physical activities is declining significantly day by day. The present study investigated the influencers - facilitators and barriers that keep in or away Taiwanese adolescent and college students from doing sports and physical activities. The present study found that the main responsible factors which helped Taiwanese students to involve in exercise, sports or physical activities were: interest and social supports, especially from parents and teachers. On the other hand, too busy on school works, part-time jobs, not enough social support and encouragements, lack of interest, no self-confidence in sports, and lack of knowledge respectively were the barriers. Another factor was too little time given on physical education classes. One very interesting finding was that, though most of the students (82%) knew that doing sports and physical activities could keep them physically and mentally healthy, only 28% of them spent enough time on doing sports or physical activities per week. It means the remaining more than 70% of student community live in sedentary lifestyle. So, it is time for the concerned authorities, parents and teachers to take this matter seriously, and encourage and support student community to keep the good habit of doing sports and physical activities regularly for their health, fitness, academic performance, and for an overall development.

Conflict of Interest Statement
The author has no conflict of interest to disclose/declare.

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