

Comparative Study on Second Year Syndrome among Medical, Dental and Paramedical Students

Govindarajan Sumathy¹, Bhaskaran Sathyapriya², Chandrakala B* M S Shruthi³,
Vasundara C³

1. *Professor and Head, Department of Anatomy, Sree Balaji Dental College & Hospital, Bharath Institute of Higher Education & Research, Chennai.*
 2. *Professor, Department of Anatomy, Sree Balaji Dental College & Hospital, Bharath Institute of Higher Education & Research, Chennai.*
 3. *Graduate student, Sree Balaji Dental College and Hospital, Bharath Institute of Higher Education and Research*
- *Senior Lecturer, Department of Anatomy, Sree Balaji Dental College & Hospital, Bharath Institute of Higher Education & Research, Chennai.*

Corresponding author

*Dr. Chandrakala B**

*Professor and Head, Department of Anatomy,
Sree Balaji Dental College & Hospital,
Bharath Institute of Higher Education & Research,
Chennai*

Abstract

Second year syndrome otherwise called as Medical students' disease is a condition often reported in medical students who often perceive themselves to be experiencing the symptoms of the disease that they are studying. A study is done through a survey to assess the presence and awareness of the disease in students studying in dental, medical and paramedical courses. The main aim of the study is to create awareness among students about Second year syndrome⁽¹¹⁾.

Key words: *Second year syndrome, students, disease, study, psychology*

INTRODUCTION

The main objective of this research was to create awareness about Second year syndrome among the student population. Second year syndrome otherwise called as Medical students' disease is a condition often reported in medical students who perceive themselves to be experiencing the symptoms of the disease they are studying. It is a form of acute hypochondriasis. This syndrome is mainly found in students studying medicine⁽¹⁾. This study is conducted using medical, dental and paramedical students to find out whether the area of study in the various medical fields affects the prevalence of the syndrome and whether the syndrome affects the students in a different way according to their area of study.

Number of studies have been done worldwide which divides the "Medical Student's Syndrome" into two components, the first one is a cognitive component which includes the thoughts of a student that he has the disease that is being studied and the second one is a distress component that includes anxiety due to the cognitive component⁽⁹⁾. Comparison of these two components shows that the cognitive component is present among all students and is progressing from the start of the medical education to the senior level while the distress component is more among younger students and becomes insignificant among older students because with time, the

students get more knowledge and increase in maturity level is also seen.

A study conducted by Dr. Oliver Howes and Dr. Paul Salkovskis found that 2nd year syndrome was prevalent in 70% of the student population studying medicine. In their second study they found that 79% of the medical students they had chosen for their study had demonstrated a history of 2nd year syndrome⁽⁶⁾. This shows that this syndrome can not only affect a student more than once but it also shows that more than half of the people who experienced this syndrome have experienced this before without knowledge. Another study conducted by Dr. G. Singh and colleagues which was published in 2004 examined whether being at a medical school causes anxiety and worry in students. They used a total of 449 medical students and 485 non-medical students across four years of study and their health anxiety was evaluated using the Health Anxiety Questionnaire. They found no evidence to prove that medical school causes more anxiety and fear⁽²⁾⁽³⁾. In fact, it was found that the anxiety levels of medical students were lower compared to non-medical students⁽⁵⁾. In a study conducted by Dr. Ingrid Candel and Dr. Harald Merckelbach it was found that gender and age were not significant predictors of MSS but, both thought suppression and fantasy proneness, strongly predicted MSS complaints⁽⁴⁾. In the present study that was conducted, 123 students were made to take an online survey with questions regarding 2nd year syndrome.

MATERIALS AND METHODS

A survey was conducted online using a survey platform and the data collected was statistically analysed. The survey contains 14 questions and the field of study was taken as the main criteria. The survey was distributed among 123 medical, dental and paramedical students. The questions included in the survey are :

1. Which medical field do you belong to?
2. Are you aware of what 2nd year syndrome or Medical students' disease is?
3. Second year syndrome is when students studying in medical fields perceive themselves to be experiencing the symptoms of the disease they are studying. Have you ever experienced this?
4. If you have experienced this, what type of disease did you diagnose yourself with?
5. Have you ever diagnosed yourself correctly?
6. What is the name of the particular disease you thought you had contradicted?
7. Do you think you are more prone to think you are experiencing the symptoms of a psychological disease or a physical one?
8. Do you think Second year syndrome can be written off as a phase in a medical students life or do you think it should be taken more seriously?
9. How do you think this affects a person?
10. Which of the following preventive measures do you think is most effective? Healthier lifestyle, better sleep, talking to a professional or talking to a friend?
11. Have you ever experienced this before becoming a student in the medical field?
12. Have you ever diagnosed yourself using the internet before becoming a medical student?
13. If you have, do you think that because you are used to self-diagnosis that you are more prone to have Second year syndrome?
14. Do you think Second year syndrome plays a major role in a medical student's life?

Discussion and Results

1. The survey was taken by a total of 123 students. It was found that almost half of the students were unaware of 2nd year syndrome
2. It was also found that 43.1% had experienced this syndrome The results of the survey are represented in the form of graphs below:

Select your stream
121 responses

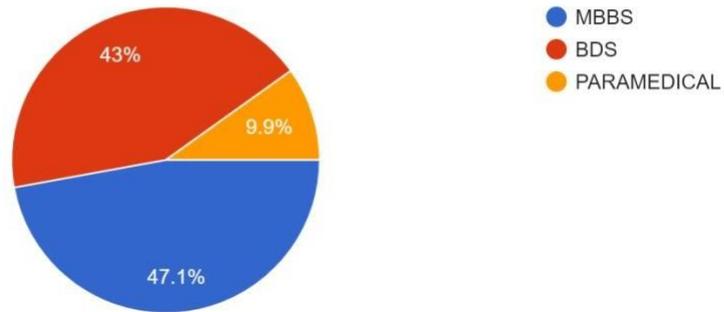


Figure 1: Pie Chart showing the different streams selected by students

Course of year
121 responses

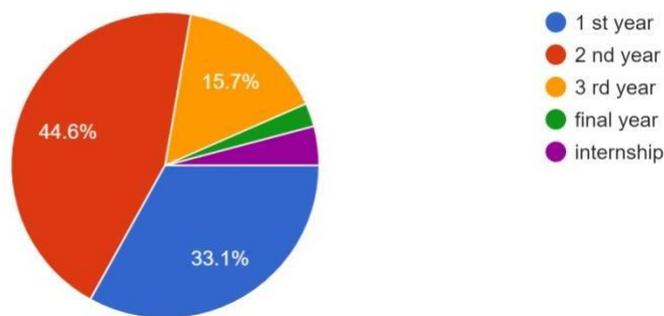


Figure 2: Pie Chart showing the course of year of study

Are you aware of what 2nd year syndrome or medical student's disease is ?
121 responses

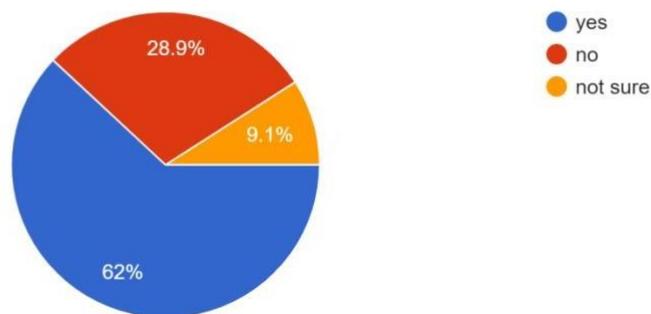


Figure 3: Pie Chart showing the level of awareness of the Syndrome among Medical students

2nd year syndrome is when students studying in medical fields perceive themselves to be experiencing the symptoms of the disease they are studying .Have you ever experienced this ?
121 responses

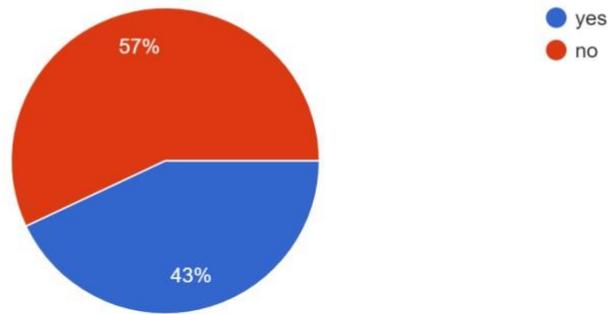


Figure 4: Pie Chart showing experienced Vs non experienced ratio

Have you ever diagnosed yourself correctly ?
121 responses

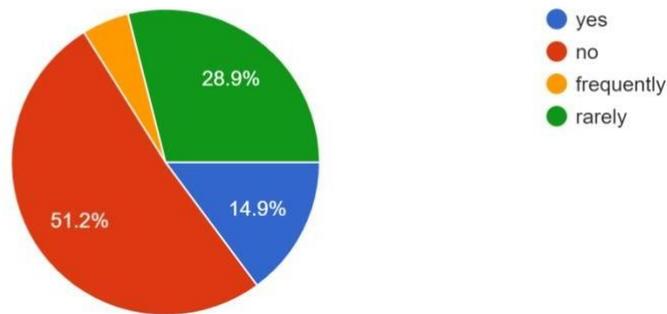
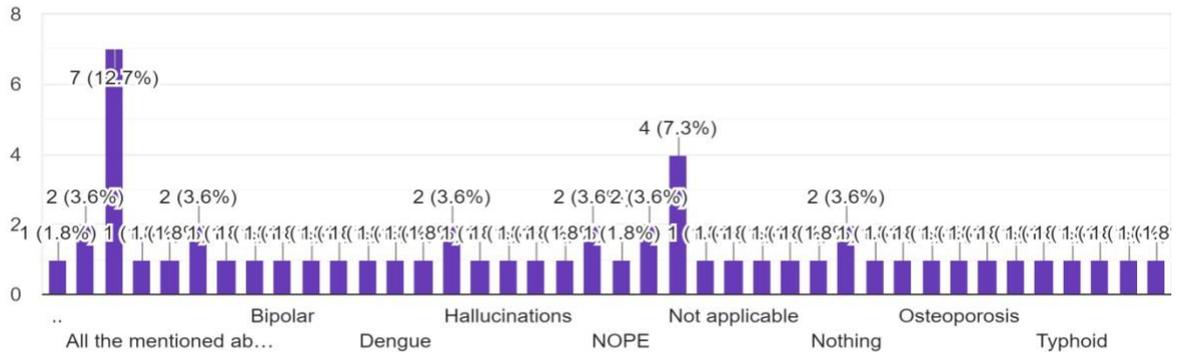


Figure 5: Pie chart showing the diagnosis analysis of students

What is the name of the particular disease you thought you had contradicted ?

55 responses



Graph 1: Showing the various diseases students contradicted with Second Year Syndrome

According to you , which type of disease you think you are more prone to ?

121 responses

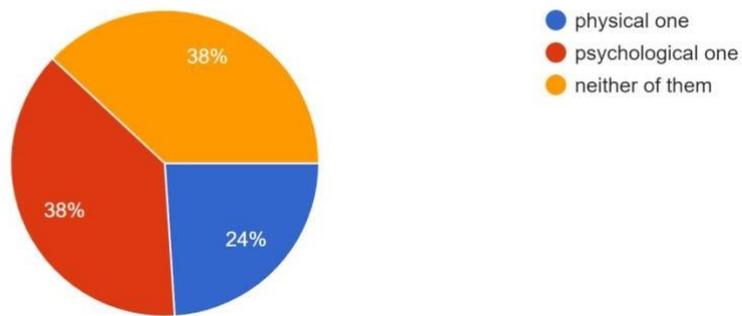


Figure 6: Pie Chart showing the diseases the students think they are prone to

2nd year syndrome should be taken as ?
121 responses

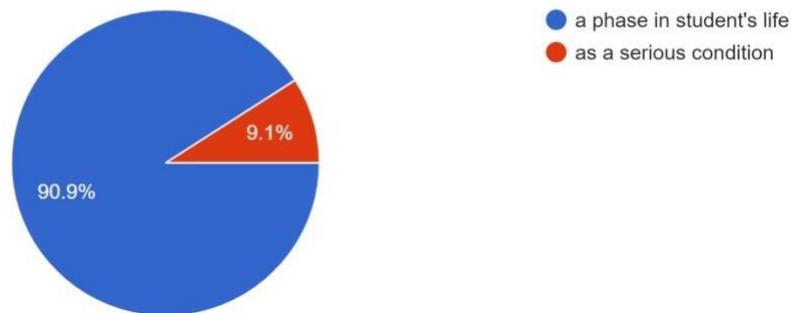


Figure 7: Showing the results of how students perceive the syndrome

Which of the following preventive measures do you think is most effective ?
121 responses

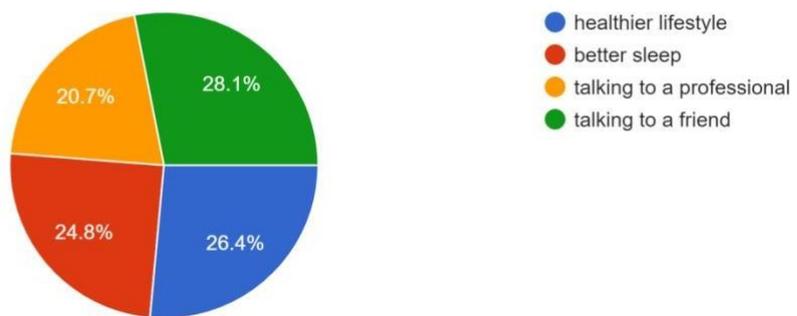


Figure 8: Showing the results of various preventive measures students feel effective

Have you ever experienced this before becoming a student in the medical field ?
121 responses

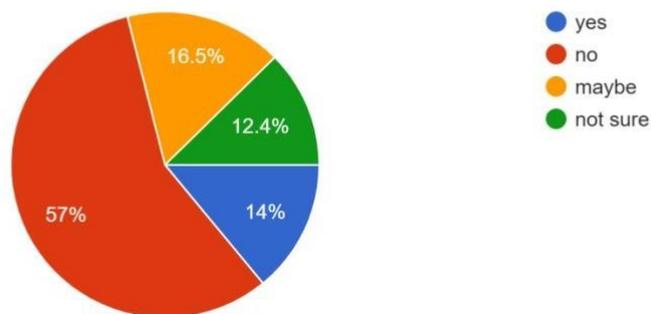


Figure 8: Showing levels of experience the students had before joining medical field

Do you think 2 nd year syndrome plays a major role in a medical student's life?

121 responses

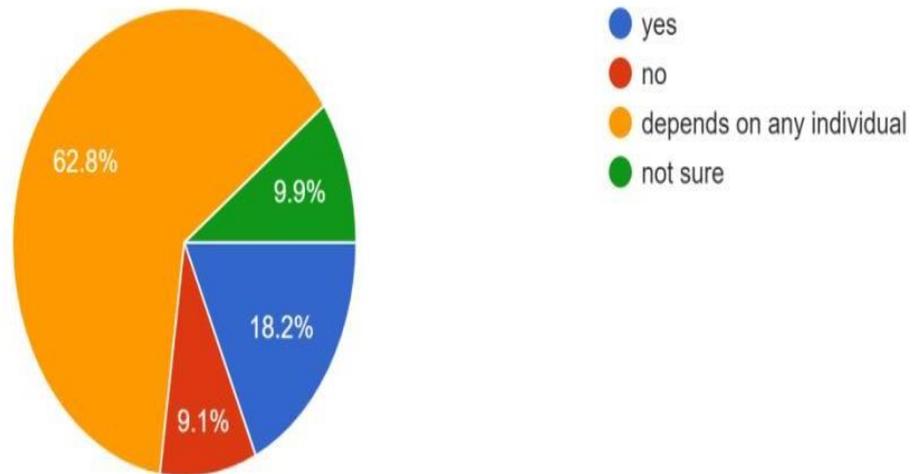


Figure 9: Showing the role the disease plays in a medical student's life

The survey consisted of 14 questions and the medical field was taken as the main criteria.

1. It was found that almost 62% of the students were aware of 2nd year syndrome, the remaining 38% were completely unaware of it
 2. It was also found that 43% of the students had experienced 2nd year syndrome before, out of which most of them had diagnosed themselves with a psychological disease
 3. More than half of the students thought they were more prone to diagnosing themselves with a psychological disease compared to a physical one
 4. Almost 90.9% of the students felt that 2nd year syndrome should be taken as a phase in every student's life rather than taking it seriously
 5. Students felt that talking to a friend was the most effective preventive measure for 2nd year syndrome
 6. Nearly 62.8% students felt that second year syndrome was a major part of a medical students' life
- a. Second year syndrome is one such condition that is frequently reported in medical trainees, where they experience the symptoms of the disease they are studying. In a review done by Dr. Brian Hodges, he noted that medical student syndrome (MSS) was first reported in the 1960s

In a study conducted by Dr. M.Hardy and Dr. L.Calhoun they investigated psychological distress and MSS in students studying abnormal psychology. The study found that students studying psychology were more worried about their psychological health compared to students who didn't study psychology⁽¹⁰⁾. The authors also claimed that the students who learned about various psychological disorders demonstrated decreased anxiety about their own mental health, and increased likelihood of seeking out mental health services on the university campus for personal psychological distress⁽⁸⁾. This study was conducted on psychology students. The results obtained by this study and MSS study were slightly similar although the study conducted by Dr. Hardy and Dr. Calhoun revolved around psychological health.

The study conducted by Dr. Oliver Howes and Dr. Paul Salkovskis showed close results to the present study. Their study showed higher percentages compared to the present study. The study conducted by Dr. G. Singh and his colleagues focused on the comparison between medical and non-medical students⁽⁵⁾. Their study found that medical students seemed less anxious compared to non-medical students. In Dr. Ingrid Candel and Dr.Harald Merckelbach's study, they found that suppression and fantasy proneness were leading factors for MSS⁽⁴⁾. This seemed in accordance with the results of the present study on the behaviour and thoughts of the students surveyed⁽⁷⁾.

Taken as a whole, the results of studies to date appear to be very mixed as to whether students are more prone to suffering hypochondria-like conditions related to the subjects they are studying⁽⁶⁾⁽¹²⁾. Even if the rates of hypochondria are higher in medical, dental and paramedical students, it might be that these students seek out such courses because of pre-existing conditions they have or think they have. More research with bigger samples, better control groups, and better control for pre- existing medical problems are warranted , as there does appear to be some evidence that such conditions exist even if there may be good explanations as to why.

CONCLUSION

The comparative study is on Second year syndrome among medical, dental and paramedical students. It was found that only about 3/4th of the students were actually aware of 2nd year syndrome. Second year syndrome is a disease by which students studying in the medical field

perceive themselves to be experiencing the symptoms of the disease they are studying. The main objective of this research is to create awareness about 2nd year syndrome taming the student population.

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