Original Article

# **Effect of Time Management Skills on Academic Performance of Medical Students**

Shaur Sarfaraz<sup>1</sup>, Muhammad Kashif Nisar<sup>2</sup> and Erum Afaq<sup>3</sup>

Management Skills on Academic Performance

# **ABSTRACT**

**Objective:** To assess time management skills with respect to effect on academic performance of medical students.

Study Design: Descriptive / cross-sectional study

Place and Duration of Study: This study was at the Department of Medical Education, Dow University of Health Sciences, Karachi from 1<sup>st</sup> January 2015 to 31<sup>st</sup> December 2015.

Materials and Methods: The sample of the study consists of 652 medical college students. Academic performance has been checked by student affairs and examination department of college.

Results: The relationship between medical students' time management scores and academic performance ratings is measured. A positive and significant relationship was discovered between time management score and performance rating (r= 0.584, p= <0.001). Correlation is significant at the 0.01 level (2-tailed). Male students have better time management scores.

**Conclusion:** This research work underlines the crucial need of understanding the rt of "time management in academic performance.

Key Words: Time management skills, Academic performance, Medical students

Citation of articles: Sarfaraz S, Nisar MK, Afaq E. Effect of Time Name when Skills on Academic Performance of Medical Students. Med Forum 2017;28(8):18-20.

## INTRODUCTION

A time management skill is not just skill to know or to learn, it is a pathway. Time management "is a set of principles, practices, skills, tools, and systems that work together to help you get more value out of your time with the aim of improving the quality of your life. Awareness of time management skills is cruci every student in their college/university life to ega plan, concentrate and study effectively quality output. This will give an efficient control in the work and health status and task related stress call also be managed in a better way.<sup>3</sup> Ezeala and tranga<sup>4</sup> reported a huge proportion of undergradu to students of health sciences have unawareness and manderstanding of study skills and time menagement, abits.

Medical students in the study period are entailed to

understand and make con pts of a huge range of medical and scientific subjects. It is clear that unprofessional and improper way of studying integrated subjects will lead them to have failure in getting good grades that results in demotivation, loss of passion to learn.5

Correspondence: Dr. Shaur Sarfaraz, Postgraduate Student MHPE, DIME, Dow University of Health Sciences, Karachi. Contact No: 0333-0200694

Email: dit.drshaur@gmail.com

Received: May 05, 2017; Accepted: June 10, 2017

Personalty, IQ, family background, gender and age, as wird factors such as learning styles and methods of study would have the effect on learning and ac demic performance. 6 It is more obvious for medical to understand the value of time management what dealing with excessive academic curriculum.7 rudents from developing countries have lots of problems and difficulties during their academic time period, researchers are engaged to find out and discover factors affecting student's performance. One of the factors identified is that students do not give that much importance to the time management while they know it is affecting their academic performance.8

Time management is an asset that is having its own value, it is one of the fact that the need is increasing day by day but due to lack of awareness, Pakistani researchers are bit lacking behind regarding time management and its effect on performance of students in all aspects evaluated in medical students. However, efficient group of researchers suggest time management is affecting academic performance and are working on it. 10 Time management skills help them prioritize, stay realistic, they can manage good timetabling that will make them aware how to work along a path and solve problems, and students can plan long term goals and can be focused person for getting "best results". 11.

### MATERIALS AND METHODS

This is a cross-sectional study in which descriptive survey was carried out at Dow University of Health Sciences, Karachi from 1st January 2015 to 31st December 2015. The sample of the study consists of 652 medical college students. Student's cumulative grade point average (GPA) is a grading criteria of

<sup>&</sup>lt;sup>1.</sup> Department of Medical Education, Dow Institute of Medical Education (DIME), DUHS, Karachi.

<sup>&</sup>lt;sup>2.</sup> Department of Biochemistry, JM&DC, Karachi.

<sup>3.</sup> Department of Physiology, Liaquat National Hospital & Medical College, Karachi.

measuring performance related to academics, was secured by an open ended question asking to write the most recent cGPA Scale ranging from 1-4 that they have obtained in their last university exam. The selfreported cGPA was later validated by the student affairs department and examination branch (Departments that have information regarding results and evaluation of each student). The questionnaire used in this study was acquired and modified questionnaire developed by Britton and Tesser1991 and John W. Olmstead MBA, Ph.D.2005<sup>12,13</sup>, regarding time management skills. These two Questionnaires had taken in consideration and modified according to our study design and has been checked by Cronbach's alpha for the reliability. A self-administered also called drop-off and pick procedure was employed to distribute the questionnaire and gathered information from the respondents who are students from medical colleges of Karachi.

The study consists of 652medical students. The data is then gathered and transferred into SPSS 21 (Statistical Packet for Social Sciences) program. The descriptive statistics such as frequency (f), percentage (%), arithmetical mean  $(\bar{x})$ , range, standard deviation (S), Pearson correlation coefficient (r) and one sample T-test analysis (t) were used in the data analysis.

# **RESULTS**

Out of 652 medical students (471) 72.2% were females and (181) 27.8% were males students (Table 1). Mean age of the students was 19.43±1.352 with the range of 18-23 years. Figure 1 represents the ages of the sample students that were 18 year old students 235 (35.9%), 19 year old students were 115 (17.6%), 20 year old students that are 156 (23.9%), 21 year old students were 89 (13.7%), 22 year old students were 3 (8%) and 23 year old student is were only 6 (0.9%). The texplains that the majority of the students were of 18 years and 20 years.

Table 2 shows the time mand smoot sources and c GPA along with mean ageof medical sudents. Mean of time management scores of medical students was (2.41±0.545) which describes that medical students have good time management skills as time management scores are coded as 1-4 that is ranging from low(1-1.9),moderate(2–2.9) and (high 3-4). Furthermore the relationship of the time management scores is more evident by the cumulative grade point average cGPA (1-4) that is plotted on a conventional scale ranging from average (1-1.9),good (2–2.9) ,excellent(3-4). The mean of cGPA of medical students was (2.55±0.446) which proves that better time management skills can lead to good cGPA.

There is (471) 72.2% female students and (181) 27.8% male students enrolled. In this study, Male students seem to have slightly better time management skills than the female students as mean of time management score is  $2.56\pm0.519$  as compared with the mean of time management scores of female students that is  $2.35\pm0.54$  with statistically highly significant P value of <0.001. This is more evident by the cGPA calculated , as male

students have mean of  $2.65\pm0.371$  which was higher than the mean of female students  $2.51\pm0.466$  with statistically highly significant P value of <0.001. (Table 3)

Table No.1: Frequency and percentage of genders

Gender	No.	%
Male	471	72.2
Female	181	27.8

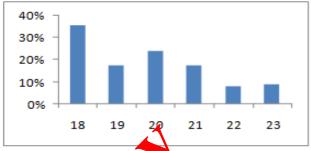


Figure No. 1: The graph representing the ages of the supply turnts

Table No.2: Bay line characteristics of study particip ints whether Academic Performance (n=652)

Variabl	Medical Students Mean±SD
A ve (yrs)	19.43±1.352
Time management Scores	2.41±0.545
c, mulative grade point average	2.55±0.446

Table No.3: Comparison of time management scores and its effect on GPA between male and female students

Variable	Males (n=181,	Females (n=471,	P value
v arrabic	27.8%)	72.2%)	varue
Time Mx Scores	2.56±0.519	2.35±0.541	< 0.001
cGPA	2.65±0.371	2.51±0.466	< 0.001

Table No.4: Correlation between TMx Scores and Academic Performance of student

Variable	Total TMX scores	cGPa	P Value
Total TMx scores	1	.584**	< 0.001
cGPA	.584**	1	< 0.001

TMx Scores: time management scores, cGPA: cumulative grade point average

When the relationship between medical students time management scores and academic performance is measured by Pearson correlation coefficient, a positive strong correlation and significant relationship was observed between time management score and academic performance (r=0.584, p=<0.001) correlation is significant at the level of 0.01 (2-tailed) that denotes that more the time management skills, better the academic performance of the students. (Table 4)

<sup>\*\*</sup> Correlation is significant at the 0.01 level (2-tailed)

# **DISCUSSION**

Many factors such as student's motivation, stress, and socioeconomic status influence the student's academic performance. One of the most important determinants of student's academic profile is time management skill which has a positive effect on their academic achievement. Studies on this issue reports that students utilizingtheir time effectively have been shown to have high academic achievement. 9,12,14. Androniceanu et al<sup>16</sup> reported a positive relationship between students' time management skills and academic achievement and the same is also reported in several studies.<sup>17</sup> Findings of our study are also consistent with these studies. We also concluded that the students having good time management scores (2.41±0.545) have an excellent cumulative GPA rating (2.55±0.446). According to Karakose et al female students were found to be more successful than male students. In one more study conducted by Trueman and Hartley<sup>18</sup>, on university students female students were found considerably better than male students in time management skills. <sup>19</sup> On contrast to this we found exactly opposite results of these studies that is in our research male students have good time management scores  $(2.56\pm0.519)$  than female students  $(2.35\pm0.541)$ and these good time management skills are reflected in their academic performance in terms of c GPA rating which is  $(2.65\pm0.371)$  for males and  $(2.51\pm0.466)$  for females and these findings are highly significant at the p value of <0.001. To the best of our knowledge these finding are being reported for the first time and w consider these results unique in comparison to previous studies. As a result of the present research, a significapositive correlation of time management scores with the GPA was established between time management score and academic performance rating (r= 0.5 1, p= 2.000) correlation is significant at the level of (1).

# **CONCLUSION**

Medical students who was good in time management and time planning scored wood on likert scale of time management questionnal and their high scores are reflected in their acade to performance as they obtained excellent rating of their GPA.

#### **Author's Contribution:**

Concept & Design of Study: Shaur Sarfaraz
Drafting: Muhammad Kashif Nisar
Data Analysis: Muhammad Kashif Nisar
Revisiting Critically: Erum Afaq
Final Approval of version: Shaur Sarfaraz

**Conflict of Interest:** The study has no conflict of interest to declare by any author.

## REFERENCES

- 1. The study guide and strategies 2011. Available from: http://www.studygs.net/timman.htm.
- Effexis. Time Thoughts. Time Management. 2004-2011.

- JA. How to improve Time Management Skills for Professional Role 2016.
- 4. Ezeala CC, Siyanga N. Analysis of the study skills of undergraduate pharmacy students of the University of Zambia School of Medicine. J Educa Evalu Health Profess 2015;12.
- 5. Zarshenas L, Danaei SM, Mazarei E, Najafi HZ, Shakour M. Study skills and habits in Shiraz dental students; strengths and weaknesses. J Edu Health Prom 2014;3.
- Mashayekhi F, Rafati S, Mashayekhi M, Rafati F, Mohamadisardoo MR, Yahaghi E. The relationship between the study habits and the academic achievement of students in Islamic Azad Univ of Jiroft Branch. Int J Curr Res Acad Rev 2014;2(6):182-7.
- 7. Karakose T. The relationship between medical students' time management skills and academic achievement. Studies on Ethno-Medicine 2015;9(1):19-24.
- 8. Karim S, Kandy M Time management skills impact on self-efficacy a. I academic performance. J Am Sci 2011;74(2)
- J Am Sci 2011;7(12)
   Macan TH, Shah, i. Dipboye RL, Phillips AP. College student the management: Correlations with academy performance and stress. J Educ Psy hol 1990;82(4):760.
- 10. Bur J, Jackson T, Holtzman S, Roberts RD, Mandigo T. Examining the efficacy of a time management intervention for high school students. FT3 Research Report Series 2013;2013(2).
- Practice: A Model of In-School Professional Development 2013.
- 12. Britton BK, Tesser A. Effects of time-management practices on college grades. J Educ Psychol 1991;83(3):405.
- Olmstead JW. Effective Time Management Skills & Practices Self-Assessment Questionnaire. St. Louis: Missouri; 2005.
- 14. Misra R, McKean M. College students' academic stress and its relation to their anxiety, time management, and leisure satisfaction. Am J Health Stud 2000;16(1):41.
- 15. Macan TH. Time management: Test of a process model. J Applied Psychol 1994;79(3):381.
- 16. Androniceanu A. Research on management capacity of medical units for addicts to deliver quality services in time of crisis. Revista de cercetare si interventie sociala 2014;47:78.
- Başak T, Uzun Ş, Arslan F. Hemşirelik yüksek okulu öğrencilerinin zaman yönetimi becerileri. TAF Preventive Med Bulletin 2008;7(5):429-34.
- 18. Afyon. University Students Time Management Skills with the Relationship between Academic Successes [Master Thesis]. Unpublished: Kocatepe University; 2015.
- Mark T. A comparison between the time management skills and academic performance of mature and traditional-entry university students. Journals of Higher Educ, University of Keel 2000.