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Research Paper



Attitude towards Academic Misconduct, Cheating and Plagiarism: A Cultural & Religious Perspective

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ABSTRACT

Objective: To determine the attitude of undergraduate medical students towards academic misconduct in Arab region.

Methodology: It was a cross sectional study conducted at King Faisal University, Al Ahsa Saudi Arabia in December 2015. The students were evaluated through self-reported questionnaire consisting different questions on assessing their educational dishonesty and cheating behavior.

Results: Four hundred eighty-seven students participated in the study and completed the questionnaire; of which 51% (N = 250) were males and 49% (N = 237) were females. There was a significant difference in the attitudinal response for seven senariosscenarios, all of which were very highly significant i.e. copying answers in examination, chatting with colleague while he is done his work, copying from book without referencing, resubmitting work for another part of the course, submitted the previous year by senior, X is writing work for his colleague and writing "procedure normal" when he didn't perform (p < 0.001). For religious perspective, all the questions were significant in terms of year of education (P < 0.001).

Conclusion: Our study suggested that students are aware of the different misconduct behavior but we cannot be sure if they are indulged in certain activities or not. Furthermore, a religious perspective to be equally significant throughout however, gender difference was obvious.

I. INTRODUCTION

In an era of high demand of professionalism and competency from the physicians, it is crucial that academic misconduct should be addressed as an important element of any education, but especially for medical education. Academic misconduct in medical school produces incompetent and dishonest physicians who start their practice with same behavior and treat the patients by causing them harm. Increased rate of such misconduct among medical students affect their future and professionalism badly [1].

Academic misconduct is defined, any action or attempted action that may result in creating an unfair academic advantage for oneself or an unfair academic advantage or disadvantage for any other member or members of the academic community [2].

Honesty and morality are important paragons of virtue in medical profession. Despite the fact that medical students consider cheating as unethical [3], fifty-eight [1] to ninety-four percent [4] of them have been reported to admit to cheat at least once during their medical school. On the contrary, the survey conducted in University of Utah, college of Medicine suggests the opposite results where the rate of cheating among the students was found to be less [5]. It is further evidenced by research that if someone is dishonest at undergraduate level, it is more likely that he will continue this behavior throughout his studies [6]. Not only this, but these individuals have shown a positive relationship between misconduct at undergraduate level and unethical behavior at workplace [7]. Professionalism is a vital characteristic of medical profession. Unprofessional doctors usually end up in downfall towards their professional responsibilities. They

manipulate medical records, unduly hospitalize the patients for longer duration for more payments, fabricate the clinical data for research and steals other peoples' work [8]. The act of cheating is very old phenomenon. It has been in place since the examination techniques were first introduced and the trend has been continuing till date with new concerns regarding the adoption of technological devices in the modern cheating process [9]. Literature suggests that most of medical students contemplate academic misconduct to be illegal and invalid and that they would not be engaged in such act [10]. The behaviors, which lead students to indulge in such misconduct, are multifactorial and could broadly be divided as individual and social and behavioral development, individual environmental. Those factors may include characteristics, negative role models and institutional disciplines. Elzubeir & Rizk further mentioned in their study that male students were more prone to cheat as compared to females, however, Whitley [11] presents no such difference among the male and female medical students. Regarding religious perspective, Bloodgood [12] described that the relationship between religiosity and misconduct behavior could be considered as an important index in terms of religion in one's life. However, authentication of such relationship is sparse and the literature doesn't show the proper consensus due to lack of research over this perspective [13]. Literature somewhere suggests that religion might have an impact on unethical behaviour and that the religious values could possibly lead to decrease students' misconduct [13,14]. One possible reason for the disparity could be the way in which religiosity had been measured. The published work in this area includes as much as one or few simple measures of religion [15,16]. Allport [17] found that it is more important in predicting behaviour to know one's religious motivation than to which religious group he belongs.

The academic misconduct includes different behaviors including cheating and plagiarism. Sierles defines cheating as, copying from another student or from unauthorized notes during an examination, previewing the examination illegally, submitting someone else's work as one's own, falsifying experimental data, and asking another student for answers to an examination that one student had taken but the other had not [1] whereas, plagiarism is using intellectual material produced by another person without acknowledging its source [2]. Using the same definition as Sierles and the centre of student conduct California (CSC), present study focuses on the responses from medical students with respect to their perception towards the given questionnaire involving academic misconduct and determine the association between the said and practiced attitudes and behaviours in terms of religiosity. The study will further be an aid to the literature in showing the data from Arab region, which may be used to improve controlling the misconducting measures during study at medical colleges.

II. METHODOLOGY

The study is a cross sectional survey conducted in December 2015 at College of Medicine, King Faisal University, Al Ahsa Saudi Arabia. An ethical approval has been taken from research and ethic committee from the university. In 2012, the problem-based curriculum (PBL) was introduced in the college and all the students from year preparatory to 4th year (total 5 academic years) belonging to the new curriculum were included in the study. Data was collected at the end of each session in the classroom and students were informed regarding the study. After obtaining verbal consent and assuring them regarding the anonymity, students were asked to fill the questionnaire voluntarily. The questionnaire has been adopted from the study already conducted and published paper [19] with just change of names in scenario. It was divided into three parts. The first part contained questions on demographics, second part was scenario based that mentioned different scenario and check the opinion in different situations. This questionnaire already validated and pilot tested and applied [19]. In addition, one section was included as a third part that was about religious beliefs [20] and in this section the perception of students towards cheating in terms of those religious factors was checked, this portion has been checked as pilot study and found overall around 0.75 reliability coefficient. Data was collected and then entered into SPSS version 20.0 (SPSS Inc., Chicago, Illinois, USA). Descriptives analyses were performed for demographics and chi-square test was applied to compare the different groups. P - value of <0.05 was considered as significant.

III. RESULTS

Four hundred eighty-seven students participated in the study and completed the questionnaire; of which 51% (N = 250) were males and 49% (N = 237) were females (Table 1). Thirty-seven percent students belonged to preparatory year followed by 31% who belonged to first year. The percentage decreased down to 12% for each 3rd and 4th year participants and further reduced to 8% for 2nd year. Majority of the students were from preparatory and first year hence the most common age was 18, 19 and 20 years respectively.

Demographic Features	Frequency (%)		
AGE GROUPS			
18 Years	93 (19%)		
19 Years	165 (34%)		
20 Years	101 (21%)		
21 Years	45 (9%6)		
22 Years	46 (9%)		
23 Years	33 (7%)		
GENDER			
Male	250 (51%)		
Female	237 (49%)		
YEAR OF STUDY	beet Notana		
Preparatory Year	178 (37%)		
1st Year	153 (31%)		
2nd Year	39 (8%)		
3rd Year	59(12%)		
4th Year	58 (12%)		

Table 1: Demographic Characteristics

Responses towards the questionnaire based on scenarios:

For almost half of the scenarios, there was no significant difference in the attitudinal responses between the years. There was a significant difference in the attitudinal response for seven senarios (Table 2). All of these were very highly significant $(1^{st}$ year vs others year): copying answers in examination, chatting with colleague while he is done his work, copying from book without referencing,

chatting with colleague while he is done his work, copying from book without referencing, resubmitting work for another part of the course, submitted the previous year by senior, X is writing work for his colleague and writing "procedure normal" when he didn't perform (p<0.001).

Scenarios	Frequency (%)						P - value
	Responses	Prep-Year	1 year	2 year	3 year	4 year	(95%CI)
Abdullah forges Dr. X's signature on a piece of work-for example, patient presentation, record of achievement.	YES NO NOT SURE	118 (66%) 19 (11%) 39 (22%)	112 (73%) 6 (4%) 35 (23%)	31(80%) 4 (10%) 4 (10%)	45 (76%) 4 (7%) 10 (17%)	41 (72%) 7 (12%) 9 (16%)	0.141 (0.088 - 0.146)
Abdullah copies answers in an exam from Hasa n	YES NO NOT SURE	137 (77%) 29 (16%) 11 (7%)	149 (97%) 2 (1.5%) 2 (1.5%)	35 (90%) 2 (5%) 1 (2%)	54 (91%) 4 (7%) 1 (2%)	47 (81%) 8 (14%) 3 (5%)	0.005 (0.00 - 0.006)
Abdullah chats to Hana n about the OSCE/OSPE. Hana n has just completed and Abdullah is about to go into	YES NO NOT SURE	45 (25%) 52 (29%) 80 (46%)	84 (55%) 21 (14%) 48 (31%)	19 (49%) 12 (31%) 8 (20%)	26 (44%) 20 (34%) 13 (22%)	36 (62%) 13 (22%) 9 (16%)	0.0005 (0.000-0.006)
Abdullah copies from textbooks or published papers and lists them as references	YES NO NOT SURE	37 (21%) 105 (59%) 35 (20%)	18 (12%) 128 (84%) 7 (4%)	7 (18%) 30 (77%) 2 (5%)	7 (12%) 42 (72%) 9 (16%)	20 (34%) 32 (55%) 6 (11%)	0.288 (0.234 - 0.313)
Abdullah copies directly from textbooks or published papers without acknow ledging the source.	YES NO NOT SURE	94 (53%) 42 (23%) 43 (24%)	122 (80%) 12 (7%) 19 (13%)	31 (79%) 2 (6%) 6 (15%)	49 (83%) 7 (12%) 3 (5%)	42 (72%) 9 (15%) 7 (13%)	0.005 (0.000-0.006)
Abdullah copies Hasan's work—for example, patient presentation, SSM report, and case discussion	YES NO NOT SURE	125 (71%) 31 (18%) 20 (11%)	125 (82%) 16 (10%) 12 (8%)	26 (66%) 3 (8%) 10 (26%)	40 (68%) 11 (19%) 8 (13%)	41 (71%) 10 (17%) 7 (12%)	0.19 (0.001 - 0.019)
Abdullah lends Hasan his work to look at, and he copies it without telling him.	YES NO NOT SURE	115 (65%) 44 (25%) 17 (10%)	114 (74%) 30 (20%) 9 (6%)	30 (77%) 4 (10%) 5 (13%)	40 (69%) 16 (28%) 2 (3%)	43 (74%) 9 (16%) 6 (10%)	0.141 (0.087 - 0.143)
Abdullah lends Hasan his work to copy.	YES NO NOT SURE	106 (61%) 46 (26%) 23 (13%)	94 (61%) 19 (12%) 40 (26%)	17 (44%) 9 (23%) 13 (33%)	31 (52%) 17 (29%) 11 (19%)	30 (54%) 14 (25%) 12 (21%)	0.97 (0.054 - 0.102)
Abdullah writes a piece of work—for example, patient presentation etc., for Hazan	YES NO NOT SURE	73 (31%) 54 (31%) 49 (28%)	96 (62%) 27 (18%) 30 (20%)	20 (51%) 10 (26%) 9 (23%)	27 (46%) 16 (27%) 16 (27%)	25 (44%) 17 (30%) 15 (26%)	0.01 (0.000 - 0.006)
Abdullah writes "Nervous system examination—normal" in his patient presentation when he hasn't performed the procedure	YES NO NOT SURE	71 (40%) 39 (22%) 67 (38%)	118 (77%) 11 (7%) 24 (16%)	29 (74%) 5 (13%) 5 (13%)	50 (85%) 6 (10%) 3 (5%)	40 (72%) 8 (14%) 8 (14%)	0.005 (0.000 - 0.006)
Abdullah resub mits work already submitted for a different part of the course— for example, a report for his fourth year project	YES NO NOT SURE	65 (37%) 38 (22%) 72 (41%)	55 (36%) 40 (26%) 58 (38%)	14 (36%) 10 (26%) 15 (38%)	19 (32%) 24 (41%) 16 (27%)	28 (49%) 18 (32%) 11 (19%)	0.166 (0.118 - 0.182)

 Table 2: Responses towards the questionnaire based on scenarios

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Abdullah submits his thesis	YES	53 (30%)	67 (44%)	16 (41%)	23 (39%)	26 (46%)	0.22
from a previous degree for his	NO	47 (26%)	29 (19%)	6 (15%)	17 (29%)	18 (31%)	(0.001 -
special study module.	NOT SURE	78 (44%)	57 (37%)	17 (44%)	19 (32%)	13 (23%)	0.019)
Abdullah submits work	YES	86 (48%)	111 (73%)	26 (67%)	39 (66%)	41 (72%)	0.005
submitted the previous year	NO	39 (22%)	19 (12%)	7 (18%)	11 (19%)	11 (19%)	(0.000 -
by his senior	NOT SURE	53 (30%)	23 (15%)	6 (15%)	9 (15%)	5 (9%)	0.006)
Abdullah and Hasan submit the same report.	YES NO NOT SURE	89 (50%) 40 (22%) 49 (28%)	108 (71%) 25 (16%) 20 (13%)	26 (67%) 6 (15%) 7 (18%)	35 (59%) 11 (19%) 13 (22%)	39 (68%) 8 (14%) 10 (18%)	0.0005 (0.000 - 0.006)

Attitude Towards Academic Misconduct, Cheating And Plagiarism:

Religious Perspective:

There were six questions on religious perspective in terms of cheating and responses were collected on Likert scale. The questions were analyzed with two variables i.e. gender and year of study. Regarding gender difference, results were found to be highly significant in between males and females for two questions i.e. responsibility (p-value 0.002) and self-accountability (p-value 0.004) respectively. However, the year of education was found to be quite significant for all the questions with p-value of < 0.001.

DISCUSSION

The present study was focused to investigate the attitude and behavioral response of undergraduate medical students towards scenarios describing academic misconduct. Approximately half of the scenarios were found to have significant results where students know what is academic misconduct and rest of the seven scenarios where there was no significant difference. Therefore, based on the results we may not argue whether they had or would consider engaging in those behavior during their practices as physicians. While taking academic misconduct in terms of religious perspective, we found a significant difference in the years however gender was found to influence only two factors i.e. responsibility and self-accountability. Unfortunately, the collected data was skewed therefore; we could not compare the results among each year. Literature suggests that students get involved in academic misconduct behavior in order to achieve good grades however they are not aware of the consequences which may affect their future professional development; and the punishment which they may face against this unlawful activity [20]. Hafeez K et al conducted a study and found that 55% of the medical students were indulged in cheating and a large number of students accepted copying assignments from their senior classmates [21]. S C Rennie [18] reported in his study that he found a significant difference among the year of study and attitude towards misconduct where first year students were not aware of the different behavior regarding misconduct. Similar results reading difference among year were suggested in 2013 by Kamran and 1996 by Baldwin [22]. This suggests that the new comers as first year students may not have a broader idea of misconduct. Increased honesty in year one in such areas reflect integrity amongst the new comers to medical school, a greater ignorance of the complexity of the issues, and/or the lack of experience or opportunity to engage in the scenarios. Different educational experiences at different institutes of the different years of students may be the influential factors towards their behavior.

A new perspective has been explored in our study which so far not being addressed in Saudi Arabia. It was related to perception based on religious faith regarding to their understanding relevant to misconduct in educational activities. Regarding religiosity and academic misconduct, we have found significant differences among the gender. Though Huelsman, M.A. suggests that religiosity and academic dishonesty were not significantly associated [23], but cannot comparable to this study as this one has checked only their perception. Another study conducted by John R. Godfrey compared the behavior among religious and non-religious school in terms of academic misconduct and he found that there was no difference among cheating patterns however, the awareness regarding such terms were well understood by students attending religious schools [24]. Burton JH found some similar results in his study conducted in business school and suggested that there were positive indications in terms of religious activities were less likely to engage in unethical test taking practices. This may indicate not just higher ethical values in these students but also the positive impact of participating in religious activities that reinforce ethical values [25].

Our study suggested that students are aware of the different misconduct behavior but we cannot be sure if they are indulged in certain activities or not. Furthermore, a religious perspective to be equally significant throughout however, gender difference was obvious for a few factors. Due to lack of symmetrical data, we could not compare the results among the different year Nevertheless no empirical data available to depict that the data collection in Arab culture seems difficult, however in our experience, our students were reluctant to take part in the study thus results in such asymmetry either because they don't understand the questionnaire or the new PBL system already caries a number of paper work for them which might result in the exhaustion and one more paper as research questionnaire looks burden to them.

REFERENCES

- [1]. Sierles F, Hendrickx I. Cheating in medical school. Academic Medicine. 1980 Feb 1;55(2):124-5
- [2]. Centre of student conduct, University of California, Definitions and examples of misconduct. Available from: http://sa.berkeley.edu/conduct/integrity/definition [Accessed on: 26/01/2016]
- [3]. Anderson RE, Obenshain SS. Cheating by students: findings, reflections, and remedies. Academic Medicine. 1994 May 1;69(5):323-.
- [4]. Hrabak M, Vujaklija A, Vodopivec I, Hren D, Marušić M, Marušić A. Academic misconduct among medical students in a postcommunist country. Medical education. 2004 Mar1;38(3):276-85.
- [5]. Cockayne TW, Samuelson Jr CO. The crime and punishment of cheating in medical school. InProceedings of the... annual Conference on Research in Medical Education. Conference on Research in Medical Education 1982 Dec (Vol. 22, pp. 166-171).
- [6]. Malouff JM, Sims RL. Viewpoint: Applying an Employee-Motivation Model to Prevent Student Plagiarism. Journal of Education for Business. 1996 Sep 1;72(1):58-61.
- [7]. Sims RL. The relationship between academic dishonesty and unethical business practices. Journal of Education for Business. 1993 Apr 1;68(4):207-11.
- [8]. Fred HL. Dishonesty in medicine revisited. Texas Heart Institute Journal. 2008 Jan 1;35(1):6. 9. Curran K, Middleton G, Doherty C. Cheating in exams with technology. International Journal
- [9]. Elzubeir MA, Rizk DE. Exploring perceptions and attitudes of senior medical students and interns to academic integrity. Medical education. 2003 Jul 1;37(7):589-96.
- [10]. Whitley Jr BE. Gender differences in affective responses to having cheated: The mediating role of attitudes. Ethics & Behavior. 2001 Jul 1;11(3):249-59.
- [11]. Bloodgood JM, Turnley WH, Mudrack P. The influence of ethics instruction, religiosity, and intelligence on cheating behavior. Journal of business ethics. 2008 Oct 1;82(3):557-71.
- [12]. Rettinger DA, Jordan AE. The relations among religion, motivation, and college cheating: A natural experiment. Ethics & Behavior. 2005 Apr 1;15(2):107-29.
- [13]. Weaver GR, Agle BR. Religiosity and ethical behavior in organizations: A symbolic interactionist perspective. Academy of management review. 2002 Jan 1;27(1):77-97.
- [14]. Salsman JM, Brown TL, Brechting EH, Carlson CR. The link between religion and spirituality and psychological adjustment: The mediating role of optimism and social support. Personality and social psychology bulletin. 2005 Apr 1;31(4):522-35.
- [15]. Spilka, Bernard; Hood, Ralph W.; Hunsberger, Bruce; Gorsuch, Richard New York, NY, US: Guilford Press The psychology of religion: An empirical approach (3rd ed.). (2003). xvi 671 pp.

[16]. Allport GW. The religious context of prejudice. Journal for the scientific study of religion. 1966 Oct 1;5(3):447-57.

- [17]. Rennie SC, Rudland JR. Differences in medical students' attitudes to academic misconduct and reported behaviour across the years—a questionnaire study. Journal of medical ethics. 2003 Apr 1;29(2):97-102.
- [18]. Kasule OH. Medical professionalism and professional organizations. Journal of Taibah University Medical Sciences. 2013 Dec 31;8(3):137-41.
- [19]. Jordan AE. College student cheating: The role of motivation, perceived norms, attitudes, and knowledge of institutional policy. Ethics & Behavior. 2001 Jul 1;11(3):233-47.
- [20]. Hafeez K, Khan ML, Jawaid M, Haroon S. Academic misconduct among students in Medical Colleges of Karachi, Pakistan. Pakistan journal of medical sciences. 2013 May;29(3):699.
- [21]. Baldwin Jr DC, Daugherty SR, Rowley BD, Schwarz MD. Cheating in medical school: a survey of second-year students at 31 schools. Academic Medicine. 1996 Mar 1;71(3):267-73.
- [22]. Huelsman MA, Piroch J, Wasieleski D. Relation of religiosity with academic dishonesty in a sample of college students 1. Psychological reports. 2006 Dec;99(3):739-42.
- [23]. Godfrey JR, Waugh RF. The perception of students from religious schools about academic dishonesty. Issues in Educational Research. 1998;8(2):95-116.
- [24]. Burton JH, Talpade S, Haynes J. Religiosity and test-taking ethics among Business School students. Journal of Academic and Business Ethics. 2011 Jul 1;4:1.