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Evaluation of the Learning Environment based on the Dundee Ready Education Environment Measure Model from the Perspective of Primary School Students in Roudsar City

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ABSTRACT

Educational environment plays a vital role on effectiveness of learning and educational activity. The DREEM questionnaire is a tool for assessing educational environment. We estimated the dental students' perceptions of their educational environment. This was a descriptive study using a convenience sampling in addition to DREEM questionnaire which was carried out on 23 female students of Roudsar city in 2015. The mean and standard diversion scores of perception. Students in the five areas including: the area of learning $34/2\pm5/66$ of 60 score, teachers area $34/62\pm5/23$ of 55 score, areas of academic ability $25/94\pm4/36$ of 40 score, educational environment $33/33\pm5/05$ of 50 score and the perception of students in the social condition $24\pm1/40$ of 35 score. Total score was 168 of 200 score. Educational environment of learning is important, so improving this situation should be responsible priority.

Keywords: Students, Educational Environment, DREEM, Evaluation

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INTRODUCTION

Educational climate is an important factor for effective learning to occur. Indeed, that has been highlighted as a key to the delivery of a high-quality medical education [1, 2]. The Dundee Ready Education Environment Measure has been developed in Dundee [3] to measure the undergraduate educational climate of the Schools. [4]. It consists of 50 statements in five subscales

(12 items), students' perceptions of teachers (11 items), one: students' academic self-perceptions (8 items), two: students' perceptions of atmosphere (12 items) and three: students' social self-perceptions (7 items).

The DREEM evaluate the educational environment in undergraduate medical education institutions which has been recommended as the most suitable tool for this purpose. It has been translated into eight languages and used in at least 20 countries. It is widely used as an evaluation measure to diagnose problems in the current educational environment as well as to compare the educational environment experiences among

different groups. The DREEM has been used to examine the relationship between the educational environment and other measures.

Methods of reporting and analysis of DREEM data emerge inconsistent. Greater perspicuity and monotony of approach in data reporting and analysis would enable meaningful comparisons across institutions and guide good practice [5]. evidence that the educational There is environment envisage by students has an effect on consent with the course of study, perceived wellbeing, breathing and academic success [6-10]. One of the most important concepts of the DREEM is that it provides a standardized way for international comparisons between medical schools as well as allowing them to benchmark their educational climate [11]. The DREEM has most commonly been used among medical students in undergraduate medical schools (n1/431 papers); but it has also been used by other groups including graduates (interns/residents) [12-15], dental [16] and chiropractic [17, 18] students, and teaching staff [19]. Training managers are supposed to individuals. The human relations will be more effective. In addition, many factors have influence on the educational process including the teacher as the human factor in the educational environment who substantial play considerable roles. Teacher by teaching inclusive He had to deal with major influences on him, May Behavioral change in him. In addition, a comprehensive understanding of the environment motivates the students to learn [20]. Educational atmosphere influences in training, student behavior and future so know the students in this area can be Authorities and meet the needs of teachers.

The goal of current survey, conducted in 2015, was to examine Roudsar students and assess learning environment based on (by) DREEM.

MATERIALS AND METHODS

The DREEM questionnaire was distributed to all the 10 old students (23 students). The questionnaires were administered by students at the end of lecttuer courses, after explaining the purpose of the study. Papers were completed anonymously and collected at the same time. Five students were asked to fill the questionnaires as a pretest in order to make sure that the questions are clear.

DREEM consists 50- questions that each of them is scored on a 5-point scale (4 = Strongly agree, 3 = Agree, 2 = Unsure, 1 = Disagree and 0 = Stronglydisagree). Reverse scoring is necessary for items 4, 8, 9, 17, 25, 35, 39, 48 and 50. Thus, higher scores indicate a more positive evaluation. Depending on DREEM questionnaire, student's perception on educational environment items subdivided into 5 subscales. This subscale gives opportunity to researcher to identify weaknesses or strengths of course. Also it indicates, individual items with a mean score of 3 and above, reflect a positive educational climate and are considered strength of school, while items with a mean score below 2 are considered weaknesses of medical faculty. Items with a mean score between 2 and 3 reflect areas that are neither strengths nor weaknesses but areas that could be improved. of separate elements the DREEM questionnaire and their maximum scores are:

- Students' Perceptions of Learning: 12 items (items 1, 7, 13, 16, 20, 22, 24, 25, 38, 44, 47 and 48) (maximum score 48)
- Students' Perceptions of Teachers: 11 items (items 2, 6, 8, 9, 18, 29, 32, 37, 39, 40 and 50) (maximum score 44)
- Students' Perceptions of their Academic Skills: 8 items (items 5, 10, 21, 26, 27, 31, 41 and 45) (maximum score 32)
- Students' Perceptions of the Learning Atmosphere: 12 items (items 11, 12, 17, 23, 30, 33, 34, 35, 36, 42, 43 and 49) (maximum score 48)
- Students' Perceptions of the Social Environment: 7 items (items 3, 4, 14, 15, 19, 28 and 46) (maximum score 28) [21].

The questionnaire had been translated, validated and administered particularly in Medical Schools in many countries such as Saudi Arabia and Republic of Yemen [22], Trinidad [23], India [24], Australia [25], Sri Lanka [26], Chile [27], Nigeria and in Nepal [28], Leeds (UK) [29] and Greece [30,31]. Descriptive statistics were used to calculate means, minimum and maximum values and standard deviations. The data were statistically analyzed using SPSS 11. ? was 0.93 and did not increased 'if item deleted' for any of the 50 items, i.e. there is no need to remove any of the questions. The mean and standard diversion scores of student's perception in the five areas are listed in Table 1. Total score was 168 of 200.

Table1: DREEM subscale scores

Score	Mean ± SD	
Perceptions of Learning	34/2 ± 5/66	
Perceptions of Teachers	$34/62 \pm 5/23$	
Perceptions of their Academic Skills	25/94 ± 4/36	
Perceptions of the Learning Atmosphere	$33/33 \pm 5/05$	
Perceptions of the Social Environment	24 ± 1/40	
0verall	168	

Among the five areas, perceptions of the Social Environment earned the highest rating while Perceptions of Learning has earned the least rating. The average was calculated for each individual item: questions with average of 3.5 or (Questions: 2,10,12,13,19,27,33,40) represent real strengths educational atmosphere, average of between 2-3 (Questions: 3,4,8,9,11,18,34,35,39,42) describes cases that should be on the agenda of administrators and teachers, average of 2.5 or less (Questions: 3,4,8,9,14,17,25,28,39,42,48,50) where they have weaknesses were true. Item of "My social life is good" has earned highest rating and item of "the students irritate the course organizers" earned the least rating (Table 2).

DISCUSSION

The present survey was conducted to investigate the students on the evaluation of the learning environment. In recent years, experts to review the educational environment and more important to show interest [32]. Educational environments are also students' perceptual field. The DREEM questionnaire has been helpful in identifying the strengths and weaknesses of the educational climate. There is no accepted agreement on what is an acceptable DREEM inventory score from published literature [33]. Nevertheless, our DREEM score of 168 was similar to many other reports.

The general interpretation of the questionnaire scores based educational environment DREEM (with a score of 168) was excellent. Students had to learn positive perception greatly. The perception of students of instructor training course was just a model. Students were sure of his scientific ability. The students had a very positive

attitude to learning atmosphere and perception of social conditions were very good students.

Among the five areas, perceptions of the social environment earned the highest rating while

Perceptions of Learning has earned the least rating. In this case the role of teachers in creating an effective and appropriate learning environment by analyzing the physical environment, want to learn better prepare its students [34]. To achieve this goal, teachers ought to involve students in issues related to their learning, because the educational environment has a direct impact on learning. Therefore conditions should be a priority of the authorities [35, 36]. In addition, training courses for promotion of learning skills in consultation with the student and proper managing of problems can help to improve the condition of students [32, 37].

The results of this study showed that students are interested in the feedback of their professors. In general, professors must be in a position to provide training so that learners share their educational activities. In such a situation continues Current thinking is possible and they feel they have merit [38-40]. The context of the training, the determining factor to motivate Learning because learning behaviors leading to progress strengthen education and is important in the vocational training process [41]. Between the educational climate Students demographic information (age, birth and etc.), the difference was not statistically significant (P<0/001) Perhaps one of the reasons was low sample volume and uniformity groups of variables of group.

CONCLUSION

The DREEM inventory may be a useful tool for course/program organizers to ensure and maintain high quality educational environments and recheck students' standpoint.

Acknowledgement

Thanks to the 10^{th} -year students for announcement of survey during filling the forms as well as the school officials and teachers who help us out in this way.

Table 2: Mean dreem score for peer item

1.1 man encouraged to participate during teaching sessions 3/04±1/09 good	Questions	Meam±SD	Interpretation of results
3. There is a good support system for students who get stressed	1. I am encouraged to participate during teaching sessions	3/04±1/09	good
4.1 am too tired to enjoy the course 2/68±1/52 The need to improve 5. Learning strategies which worked for me before continue to work for me now 2/68±1/30 good 7. The teaching is often stimulating 3/4±1/30 good 7. The teaching is often stimulating 3/4±1/30 good 7. The teaching is often stimulating 3/4±1/30 good 7. The teachers are authoritarian 2/38±1/49 The need to improve 9. The teachers are authoritarian 2/38±1/49 The need to improve 9. The teachers are authoritarian 2/38±1/49 The need to improve 10.1 am confident about my passing this year 3/7±0/63 good 11. The atmosphere is relaxed during consultation/clinic teaching 2/66±1/46 The need to improve 12. This program is well timetabled 3/45±0/67 good 13. The teaching is student centred 3/56±0/73 good 13. The teaching is student centred 3/56±0/73 good 14.1 am rarely bored on this program 1/68±1/39 bad 15. Ihave good friends on this program 1/68±1/39 bad 15. The teaching is a problem on this program 3/99±1/54 good 17. Cheating is a problem on this program 1/30±1/32 bad 17. Cheating is a problem on this program 1/30±1/32 bad 17. The teaching is well focused 3/13±1/17 good 17. The teaching is well focused 3/13±1/17 good 20. The teaching is well focused 3/13±1/18 good 27. The teaching is well focused 3/13±1/19 good 23. The teaching is well focused 3/19±1/10 good 23. The teaching is well focused 3/19±1/10 good 24. The teaching is well focused 3/19±1/10 good 25. The teaching were well-about the students 3/26±1/109 good 25. The teaching were well-about the students 3/26±1/109 good 25. The teaching were well-about the students 3/26±1/109 good 25. The teaching were well-about the good use 3/26±1/109 good 3/25±1/109 goo			
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