Evaluation of Faculty Members by Students in Birjand University of Medicine, 2003-2004

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Abstract

Background and purpose: Evaluation of faculty members is a kind of educational evaluation to determine success of faculty members in reaching the educational goals. Regarding the controversy about the validity of this kind of evaluation, this study was done to examine faculty members and students view point about content and implementation of evaluation of faculty members by students and feedback of the results in the second term of academic year 2003-4 in Birjand University of Medicine.

Methods: All faculty members and students participated in this descriptive study. Their opinions were studied using two questionnaires for students and faculty members separately, whose content validity were confirmed after a survey from specialists and pilot study and reliability of results were studied through calculating Cronbach’s alpha coefficient for internal consistency. Data were analyzed through calculating frequencies and K2-test, α=0.05.

Results: Of all faculty members, 95% (30 from clinical and 30 from non clinical departments) were aware of having been evaluated by students, 81.7% of them recognize educational development center of the University as the responsible body for evaluation. 91.7% of them received the feedback of the evaluation results. 45% of them agreed that announcement of evaluation results was helpful to improve teaching. 40% believed that questionnaires were responded without dutifulness and carefulness by students.

Conclusion: The aim of teaching evaluation is to improve teaching by faculty members. But it seems that many faculty members do not regard this evaluation tool so valid for measuring their teaching activities. The inappropriateness of most of the questionnaires, unfair judgment of student, and careless selection of the sample of students who answer the questionnaires are major issues for further development.

Key words: Evaluation, Faculty Member, Student, Medical University of Birjand

Introduction

The aim and main role of higher education is to train specialized human work force needed by society with minimal required competencies to undertake tasks within their professions. Evaluation is one of the main factors can direct education from a static status to a dynamic and high quality one. (1)

There are two main reasons to conduct educational evaluation. Firstly, the attitude of program participants about the results of evaluation may be uplifting and improve activities; secondly, evaluation helps us to be accountable of the expenses including time, money and facilities (2). The most important reason to conduct faculty members evaluation by students and focusing
to improve this kind of evaluation is to provide faculty members with proper feedback to improve their teaching methods (3,4). Studies about evaluation of faculty members show that main methods to evaluate faculty members are evaluation by the head of department, their peers, and students and self-evaluation (5). Student’s opinions are asked formally or informally about personal and professional characteristics of faculty members to evaluate them.

Evaluation of faculty members by students is one of the most controversial methods of evaluation. There are contrasting ideas about accuracy of the results of this kind of evaluation. However, this method is used for many purposes. According to Torn, Scott and Bird (1976) and Akanel and Smart (1979) using students’ opinions to evaluate faculty member is the only tangible information source in faculties and universities all over the world. Mc Kish (1979) believer that this method is useful to improve teaching methods, provide relevant information to judge teaching effectiveness, help students choose professors and academic units and finally force students to give their opinions about faculty members teaching and training (6).

There are several tools to collect students’ opinion about faculty members; the commonest and most important one is questionnaire. This study was done to know faculty members’ and students’ view about content and implementation of this kind of evaluation and feedback of the results in the second term of academic year 1382-1383 in Medical University of Birjand.

**Methods**

A descriptive-analytic study was done in the second half of academic year 1382-1383. All faculty members and students of Medical University of Birjand participated in the study using two questionnaires. Questionnaires were developed aligned with research aim for faculty members and students separately. 24 - item questionnaire of faculty members included items for their general characteristics, awareness of how the evaluation is implemented, their opinion about the evaluation system and teaching by themselves, their opinion about evaluation teams, evaluation process and effects of announcement of evaluation results. 11-item questionnaire of students included items for their general characteristics, their opinion about time of evaluation, how dutifully and honestly they responded to questionnaires, how valuable the results were considered. Content validity of questionnaires were confirmed after doing a survey form experts and accomplishing preliminary study. Reliability of the results were assessed through calculating Cronbach alpha coefficient for internal consistency. 0.8. Data were gathered and coded. Frequency table used for descriptive statistics and K^2^-test for inferential statistics. P<0.05 was considered as significance level.

**Results**

60 out of 75 faculty members and 280 out of 300 students responded to questionnaires. Therefore the response rate was 80% and 93% respectively. 50% of faculty members who responded were from basic sciences departments and 50% from clinical. 955 of them were aware of evaluation of faculty members in non clinical units and 91.7% were aware of evaluation of faculty members in clinical stages. 91.7% have received feedback of evaluation’s result. 81.7% have received feedback of evaluation’s result. 81.7% thought of Educational Development Center of the University as the responsible agent for evaluation. 41.7% believed that results were comprehensible and 41.6% perceived them as partially comprehensible. 88.3% believed that the results didn’t reflect their academic position of one faculty member among others. 45% perceived this method was not influencing on teaching. 45% of faculty members believed that evaluation had a great impact on teaching. 45% believed that it had a moderate impact and others thought that this kind of evaluation had a slight impact only 28.3% of faculty members agreed with running method.
and others believed that it was not suitable and needed to be changed. 71.7% disagreed to continue evaluation using this method. 56.4% believed that changes in implementation of this method needs to be made, and 15.4% of faculty members agreed that faculty member received questionnaires at the proper time. 52.5% of questionnaires in non-clinical stages were responded before the final exam, 32.5% after the exam an 5% in the last session of related units. 40% of faculty members believed that students responded to questionnaires without dutiful men and careful men. 40% of them believed that questionnaire were responded unfairly by students. 30% emphasized on unfair men of student in responding to questionnaires and 93.3% beveled that an explanatory program about evaluation goals and its implementation was really necessary (Table 1).

Regarding the students’ perspective results showed that 26.7% of students were in basic medical sciences stage, 12.5% in physiopathology stage, 30.4% in clerkship, and 30.4% in internship stage. 40% of them believed that questionnaires weren’t suitable to evaluate teaching quality. 78.2% of them responded carefully and dutifully and 9.6% believed that questionnaires were responded without carefulness and dutifulness. 80% of them were not aware of the evaluation center. 82.8% believed that the value of evaluation results were little perceived. 99.3% of students believed that an explanatory program needed to be delivered before distribution of question names among students (Table 2).

**Discussion**

Faculty members’ evaluation is a sort of educational evaluation to determine how successful are faculty member in reaching their educational goals (6). Regarding this fact, evaluation results could be used to reinforce strengths and remove drawbacks. The results could also be used as a basis to make decisions for educational planning and lead to academic improvement of university (7,8).

Considering the above, evaluation systems should be founded on a scientific and accrete basis to use results properly.

A faculty members’ view of being evaluated by students view point of faculty members about

**Table 1. Faculty members’ opinion about content of evaluation, its implementation and feedback of the results**

<table>
<thead>
<tr>
<th>Question</th>
<th>Very high</th>
<th>High</th>
<th>Moderate</th>
<th>Low</th>
<th>Very low</th>
</tr>
</thead>
<tbody>
<tr>
<td>How comprehensible is the feedback of evaluation results?</td>
<td>5%</td>
<td>41.7%</td>
<td>41.6%</td>
<td>6.7%</td>
<td>5%</td>
</tr>
<tr>
<td>How influencing is the evaluation on your teaching?</td>
<td>6.7%</td>
<td>38.3%</td>
<td>45%</td>
<td>6%</td>
<td>4%</td>
</tr>
<tr>
<td>How much do the results of evaluation have effects on welfare facility?</td>
<td>1.7%</td>
<td>0%</td>
<td>6.7%</td>
<td>31.6%</td>
<td>60%</td>
</tr>
<tr>
<td>Do the results of evaluation influence the rank of medical university?</td>
<td>5%</td>
<td>13.3%</td>
<td>45%</td>
<td>1.7%</td>
<td>35%</td>
</tr>
<tr>
<td>How dutiful and careful are students in responding to questionnaires?</td>
<td>3.3%</td>
<td>3.3%</td>
<td>53.4%</td>
<td>18.3%</td>
<td>21.7%</td>
</tr>
<tr>
<td>How fair are students in responding to questionnaires?</td>
<td>3.3%</td>
<td>16.7%</td>
<td>50%</td>
<td>18.3%</td>
<td>11.7%</td>
</tr>
<tr>
<td>How suitable are items on evaluation questionnaire for evaluating educational activities?</td>
<td>1.7%</td>
<td>18.3%</td>
<td>51.7%</td>
<td>20%</td>
<td>8.3%</td>
</tr>
<tr>
<td>Do the results show your academic status comparing to other faculty members?</td>
<td>1.2%</td>
<td>5.5%</td>
<td>5%</td>
<td>55.4%</td>
<td>32.9%</td>
</tr>
</tbody>
</table>
Table 2. Frequency of students’ opinion about content of evaluation, its implementation, and feedback of the results

<table>
<thead>
<tr>
<th></th>
<th>Very high</th>
<th>High</th>
<th>Moderate</th>
<th>Low</th>
<th>Very low</th>
</tr>
</thead>
<tbody>
<tr>
<td>How suitable are evaluation questionnaires to evaluate teaching?</td>
<td>1.4%</td>
<td>11.4%</td>
<td>47.2%</td>
<td>25%</td>
<td>15%</td>
</tr>
<tr>
<td>How much are the value of results perceived?</td>
<td>0.4%</td>
<td>1.01%</td>
<td>15.7%</td>
<td>27.8%</td>
<td>55%</td>
</tr>
<tr>
<td>How dutifully and carefully are questionnaires responded?</td>
<td>39.3%</td>
<td>38.9%</td>
<td>12.2%</td>
<td>7.1%</td>
<td>2.5%</td>
</tr>
<tr>
<td>Is an explanatory program needed before distributing evaluation questionnaire?</td>
<td>50.7%</td>
<td>48.6%</td>
<td>0.7%</td>
<td>0%</td>
<td>0%</td>
</tr>
</tbody>
</table>

the impact of evaluation in this study confirmed by a study in Medical University of Ahvaz in 1380, which showed that most of faculty members believed feed back of evaluation results to faculty members was useful to improve quality of teaching (7). Another study in the same university in 1378 showed that 72.6% of faculty members agreed with evaluation of faculty members by student (9). However, 57.5% of faculty members of Shahid Beheshti University thought that evaluation had a moderate impact on educational process and believed that students’ lack of information about teaching process cause their judgment to be inaccurate. Therefore they didn’t believe in the results of evaluation (7). A similar study in Iran Medical University showed that in heads of department and faculty members’ view point evaluation of faculty members by students had a slight impact (10). Different results of these studies might have been caused by lack of a uniform program to evaluate faculty members in medical universities in Iran.

Faculty members’ opinion showed their uncertainty about dutifulness, care fullness and fair judgment of students and they thought that factors like checking of students’ presence by faculty member, scores they had given to students and their communication with students influenced their responses.

Faculty members of Iran Medical University believed that evaluation might practically be a threat to faculty members and leads to the danger of using non proper ways to make students pleased. Faculty members would try to get high scores in evaluation thought making unreal friendship with students, avoid being serious and strict instead of improving quality of teaching (10). However a study in Share-Kord didn’t prove that factors like stricture and exerting more control by faculty members, social conflicts and applied assessment methods as confounding factors for teaching in evaluating results. (11) 64% of faculty members of Jahrom Medical University highly agreed with evaluation of faculty members by students and 76% believed that students paid more attention to faculty members’ temper, manner and personality than content and methods of teaching in evaluating them.

In this study many faculty members believed that evaluation should be done before the end of terms and announcement of students’ scores, tension and boredom intervene the evaluation. However study by Rafiee and Seifi showed that the result of evaluation weren’t influenced by time factor (17). Note that importance of the time of evaluation especially in stage that evaluation is done by a few number of students should not be ignored.

In this study only 20% of faculty members believed that questionnaires are suitable for evaluating their activities thoroughly. This might have been caused by lack of awareness of
faculty members about evaluation, and most of them (93.3%) believed that delivering an explanatory program to faculty members about the goals and implementation and impacts of evaluation was needed. According to Matcuffand Marto evaluation of faculty members by students using questionnaires is a usual work. However, the results should be valid and reliable in order to be put into action (13). Their knows reliability and validity of results using these questionnaires as the most important features of these questionnaires and believer that questionnaires for evaluating effective teaching must be based on theoretical principles and results of scientific researches to successful (14,15). Many studies have shown that results of evaluation of faculty members by students will be valid and reliable when well designed multidimensional evaluation methods like March Method are used (16).

Finally, evaluation of faculty members by students could be a valuable indicator for education impact and could be effective in improving education, although this kind of evaluation will be helpful when it is a part of a comprehensive program including other methods of evaluation, besides a systematic program for development of faculty members (18).

B. Students’ view of evaluation of faculty members by them. Only 12% of students believed that questionnaire’s items were suitable to evaluate faculty members’ teaching. Assessing validity of evaluation results using questionnaires in Medical University of Semnan leads to uncertainly about the results and proposing essential steps to reform questionnaires to improve validity (19). According to Nehring students as recipients of professional services delivered by faculty members are the best resource to identify clinical teaching behaviors of them. Flager also emphasizes that regarding great impact of clinical professors or students’ learning, faculty members’ behavior in and administrative position of faculty members could influence evaluation of them by students (23). Results of this study didn’t show any significant relationship between academic grade of students and their attitudes toward impacts of evaluation on teaching by faculty members (Table 3). But there were a significant correlation between responding to questionnaires and ?? and being in mood to respond them (Table 4). Students in lower grades (basic medical sciences stage) responded more carefully. Little awareness of students about the responsible agent for evaluation and their viewpoint about perceived value of the results shows that the Educational Development Center should hold explanatory sessions for students before evaluation to explain the importance and uses of evaluations’ results. As most of the students (99.3%) also emphasized on implementing explanatory program before distributing questionnaires which in turn indicates the importance of holding such a program.

Acknowledgement: this study was supported by Education Deputy of Medical University of Birjand.

Table 3. Relationship between academic stage of students and their response to: “How suitable are questionnaire’s items to evaluate teaching?”

<table>
<thead>
<tr>
<th>Stage</th>
<th>Low</th>
<th>Mod</th>
<th>High</th>
<th>Sum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number</td>
<td>Percent</td>
<td>Number</td>
<td>Percent</td>
</tr>
<tr>
<td>Basic medical science</td>
<td>23</td>
<td>30.7%</td>
<td>37</td>
<td>49.3%</td>
</tr>
<tr>
<td>Physiotherapy</td>
<td>19</td>
<td>54.3%</td>
<td>13</td>
<td>37.1%</td>
</tr>
<tr>
<td>Clerkship</td>
<td>38</td>
<td>44.7%</td>
<td>38</td>
<td>44.7%</td>
</tr>
<tr>
<td>Internship</td>
<td>32</td>
<td>37.6%</td>
<td>44</td>
<td>51.8%</td>
</tr>
<tr>
<td>Sum</td>
<td>112</td>
<td>40.5%</td>
<td>132</td>
<td>41.7%</td>
</tr>
</tbody>
</table>

\[X^2=9.47\quad \text{df}=6\quad P=0.15\]
Table 4. Relationship between academic stage of students and their response to: “Are the questionnaires responded dutifully and carefully?”

<table>
<thead>
<tr>
<th>Stage</th>
<th>Response</th>
<th>Low</th>
<th>Percent</th>
<th>Mod</th>
<th>Percent</th>
<th>High</th>
<th>Percent</th>
<th>Sum</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number</td>
<td>35</td>
<td>46.7%</td>
<td>31</td>
<td>41.35</td>
<td>9</td>
<td>12%</td>
<td>75</td>
<td>100%</td>
</tr>
<tr>
<td>Basic medical science</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physiopathology</td>
<td>8</td>
<td>22.9%</td>
<td></td>
<td>14</td>
<td>40%</td>
<td>13</td>
<td>37.1%</td>
<td>35</td>
<td>100%</td>
</tr>
<tr>
<td>Clerkship</td>
<td>32</td>
<td>37.6%</td>
<td></td>
<td>31</td>
<td>36.5%</td>
<td>22</td>
<td>25.9%</td>
<td>85</td>
<td>100%</td>
</tr>
<tr>
<td>Internship</td>
<td>35</td>
<td>41.2%</td>
<td></td>
<td>33</td>
<td>38.8%</td>
<td>17</td>
<td>20%</td>
<td>85</td>
<td>100%</td>
</tr>
<tr>
<td>Sum</td>
<td>110</td>
<td>39.3%</td>
<td></td>
<td>109</td>
<td>38.9%</td>
<td>61</td>
<td>21.8%</td>
<td>280</td>
<td>100%</td>
</tr>
</tbody>
</table>

\[ \chi^2 = 11.69 \]  \hspace{1cm}  df = 6  \hspace{1cm} P = 0.05

Questionnaire No 1 for faculty members

Name: 
Surname: 
Last degree:

1. You are from
   □ a basic science department
   □ a clinical department
   □ both

2. Are you aware of students evaluation of faculty members’ nonclinical teaching?
   □ Yes    □ No

3. Are you aware of students evaluation of faculty members’ clinical teaching?
   □ Yes    □ No

4. Have you ever received the results of students evaluation of your teaching in …
   Clinical sciences □ Yes □ No
   Basic sciences □ Yes □ No

5. If your answer to the previous question was yes, when did you receive the results?
   □ □ Months after the end of the course

6. The responsible agent for evaluation in the medical university is:
   □ Faculty of medicine
   □ Head of the department
   □ I don’t know
   □ Educational deputy of the hospital
   □ Educational development center

7. Were the results of evaluation comprehensible, if you have received any?
   □ Completely □ Moderately □ A little
   □ Very little

8. Do the results show your academic status among your peers?
   □ Yes    □ No

9. Do the results show your academic status among other departments?
   □ Yes    □ No

10. Do the results show your academic status among all faculty members?
    □ Yes    □ No

11. How influencing are evaluation results on your teaching?
    □ Very deep □ Deep □ Moderate
    □ Very little

12. Do you agree with evaluation process as it is running now?
    □ Yes    □ No

13. What changes do you suggest, if your answer to the previous question is no?
    □ Changes in content of questions
    □ Changes in implementation of evaluation
    □ Others
    □ No changes

14. Do you think how influencing are evaluation results on facilities specified for you?
    □ Very high □ High □ Moderate
    □ Low □ Very low

15. Do you think how influencing are evaluation results on rank of university related to scores of its faculty members?
    □ Very high □ High □ Moderate
    □ No influences

16. Do you know which groups evaluate faculty members?
    □ Students
    □ Head of the educational department
Chair of the faculty of medicine  
Chancellor of the university  
Head of the related ward  
Educational deputy of the hospital  
Educational deputy of the university  
Faculty members from all departments  

17. Do you know which groups’ opinions influence ranking?  

Students  
Head of the educational department  
Chair of the faculty of medicine  
Chancellor of the university  
Head of the related ward  
Educational deputy of the hospital  
Educational deputy of the university  
Faculty members from all departments  

18. When are the questionnaires distributed among students in non clinical stage?  

After delivering half of content  
After delivering 2/3 of content  
In the last session  

19. In your opinion is the time right for distribution in …  

Non clinical stage Yes No  
Clinical stage Yes No  

20. In your opinion how carefully and dutifully do students answer the questionnaires?  

Very high High Moderate Low Very low  

21. In your opinion how honestly do students answer the questionnaires?  

Very high High Moderate Low Very low  

22. In your opinion is an explanatory program needed for students before distribution of questionnaires among them?  

Yes No  

23. How suitable are items on evaluation questionnaire of clinical and non clinical teaching to completely evaluate your activities?  

Very high High Moderate Low Very low  

24. In your opinion is an explanatory program needed for faculty members about implementation of evaluation and aims and impacts of it?  

Yes No  

Questionnaire No2 for students  

Dear student, this questionnaire has been developed to study efficiency of evaluation forms of clinical and non clinical teaching. Please answer carefully. It is not necessary to write your names and surnames. Information of this questionnaire will be confidential.  

1. Which academic stage are you in as a medical student?  

Basic science  
Clerkship  
Physiopathology  
internship  

2. In your opinion how suitable are items on evaluation forms to evaluate faculty members teaching?  

Very high High Moderate A little Very little  

3. When do you often receive evaluation form on clinical teaching?  

After passing a half of the course  
After passing 2/3 of the course  
In the last session of the course  
Before the final exam of the course  
After the final exam of the course  
No forms I have received  

4. When do you receive evaluation form of clinical teaching?  

Around the middle of the course  
At the end of the course  
Before the final exam  
After the final exam  
No form I have received  

5. Do you answer the evaluation forms carefully and dutifully?  

Yes, I answer spending sufficient attention  
I answer with partial attention  
No need to spend time and attention to answer  

6. Do you answer the evaluation forms honestly?  

Yes, if it is harmless to me  
No, I’ll be fair in answering unless my answers are harmful to me  

7. Do you think that fairness may cause problems in your score?  

Yes No
8. In your opinion how valuable are the results of evaluation considered?
   - Very high
   - High
   - Moderate
   - Low
   - Very low

9. Do you know which one is responsible for evaluation?
   - Head of the department
   - Educational deputy of the hospital
   - Faculty of medicine
   - Educational development center
   - I don’t know

10. In your opinion do you need an explanatory program before distribution of questionnaires?
    - Yes
    - No

11. How many terms have you received the questionnaires?
    - term.

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