Efficacy Of Orientation Classes In Local Languages As A Part Of Foundation Course In New Competency Based Medical Education Curriculum.

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Abstract- Learning something in one language and application of the acquired knowledge in some other language often becomes very troublesome. All the books and instructions are in English in teaching Medical sciences, but the students have to deal with the patients’ problem in local languages. Communication skill depends largely on the knowledge of the language we use, and obviously the outcome would be better if both the patients and students (would be doctor) are communicating in the same language. Medical Council of India, has started with the incorporation of lots of different topics in Foundation course (1st month of Medical curriculum) along with local language with the idea for improvement of communication skill and attitude of students towards their patients. Our topic of discussion is effect of teaching local language during the Foundation course and to note whether the students use the local language during early clinical exposure or not.

The Bengali speaking students were mentors (35) and other students (65) were participants. Mentors were asked to teach two Bengali words per day to the participants during foundation course. After one month of four early clinical exposures, the students were asked to give their idea about the project. We have taken pre and post scoring for the same questionnaire before and after the completion of the project. Data collected were analysed for statistical evaluation. The students understand local language, Bengali more (15.38%) after the whole session, they communicated (talked) more with people in Bengali (23.07%), they were able to understand the patient’s problem in Bengali (29.23%) more and communicated accordingly. It was showing that with the idea of local language students were more confident than before and that can positively affect health care delivery system and doctor patient relationship.

Index Terms- Foundation Course, Competency Based Medical Education, Curriculum., Local Language, Orientation Classes,

I. INTRODUCTION

Teaching local language as a part of foundation course in new competency based medical education curriculum has been started since the academic year (2019-2020) in India. The project started with the 1st year Medical students. It is known to all that when we are asked to tell or describe something, then we always choose a language that is easy for us to express our thoughts and emotions. Though the students are taught medicine in English but the patients may be only knowing their mother tongue (local language) to express their problem. In a study done by Mirza DM (1) and Hashim MJ, it was shown how communication skills training in English alone can leave Arab medical students non-confident with patient communication in their native language [1]. In India we have so many local languages (26, official local languages) apart from Hindi and English, that it often becomes very difficult for the students to understand the problem of patients expressed in their local languages. In another study by Drouin J et al, it was shown that educating future physicians for a minority population can help the doctor patient relationship [2]. There are many studies done to support the use of local languages for better patient interaction with the doctor [3,4,5]. Maria Shoai et al, in their study also have proved that language barrier between doctor and patient can be a compromising factor for quality of patient care [6].

A short pilot study was conducted before the starting of the study with a group of 5 students (3 Non Bengali speaking students and 2 Bengali speaking students of the 1st year MBBS batch 2019-2020. This study was done to observe whether teaching local languages as a part of Foundation course in new competency based medical education (CBME) curriculum [7] is effective to increase the orientation of students for early clinical exposure or not.

II. RESEARCH DETAILS

Aims:
To note the change in orientation of students, taught in local languages as a part of foundation course in new competency based medical education curriculum for early clinical exposure.

Objectives:
1. To sensitise the students about competency based curriculum.
2. To sensitise the teachers about competency based curriculum.
3. To note students’ idea about the local languages before the starting of foundation course.
4. To note students’ idea about the local languages at the end of foundation course.
5. To note the use of local languages by the students during early clinical exposure.
6. To collate the feedback of students about the change in orientation after getting some idea about the local languages during foundation course and its use during early clinical exposure.

Material and Methods:

Study design: Observational study

Study duration: The foundation course(1 month ) and 1st month of new CBME curriculum (therefore, total 2 months)

Study participants: Students of 1st year MBBS.(2019-2020 batch)

Inclusion criteria: All the students, willing to participate in the study.

Exclusion criteria: Students from previous batch.

Sample size: Approximately 100. 1st MBBS students(65 Non Bengali speaking students were participants and 35 Bengali speaking students were mentors).

Sampling method: All the students willing to participate in the study were taken in to consideration for collecting data.

Ethical consideration: IEC approval was taken.

III. STUDIES AND FINDINGS

Observation & Results:

4 (four) students were absent from mentor group; so the study was done with 31 mentors and 65 participants(total-96 students). The whole session of two months were utilised by the 1st year students to learn local language (Bengali) for communication with patients during early clinical exposure sessions. The participants showed interest and they interacted with the patients mainly under the supervision of their mentors in local language as far as possible. The whole session was supervised by the faculty.

Following are the data received after the session and the Table I, showed how the session helped the students to understand the patients’ problem in local language. There were significant changes in patient interaction after the local language classes, as answered by the students for the first 6 (six) questions in questionnaire (annexure). These questions were all related to understanding and communicating in local language (Bengali). From question number 7 onward the students were asked regarding their communication in Hindi(National language) also. In Table-Lq1 q2…q13…denotes the question numbers as shown in questionnaire (annexure). q_Pre and post denotes the values of pre test and post test respectively. All the results for 95% confidence interval showed statistical significant (P < 0.05) change in result for pre vs post-tests. It signifies that the session with local language significantly increases the understanding and communication skill of the students in terms of dealing with the patients. 6 point Likert Scale was used to take the data input.

In Graph -I the representation of the pre vs. post-test scoring is shown .In this graph, Series 1---Response in pre-test, Series 2---response in post-test and 1 to 13 on the left hand side of the graph represents the question numbers as per the questionnaire box(annexure). In this graph we can see clearly that for 1st 6 questions, there were significant changes in post score. Like, for the 1st question, (Do you understand local language, Bengali ?) pre score was 20% and post score was 35.38%. Similarly there are changes from 33.85 to 56.92% in 2nd question (Can you freely communicate(talk) with people in Bengali?),38.46 to 50.77% in 3rd question (Will you be able to introduce yourself to a patient in Bengali?).40 to 64.62% in 4th question (Will you be able to ask the patient his/her name in Bengali?),44.62 to 75.38% in 5th question (Will you be able to ask the patient his/her problem in Bengali?), 58.46 to 87.69% in 6th question (Will you be able to understand the patient’s problem in Bengali?). For the next 7 questions analysis showed varied result and they are related to knowledge of Hindi in students.

From the feedback given by the students regarding the orientation classes in local language as a part of foundation course in new CBME curriculum the chart (Table-II) was made.
100% students agreed that, the need for knowing the local language, the ways of knowing the local language and improving it were made clear in the session. 100% students got motivated to know about the local language after the session. 95.2 % students opined that the session for local language was useful for interacting well with patients and relatives. With reference to Graph II and III, 96.8% agreed that there are possible ways to improve their local language skill(talking) in future and majority (90.3%) of students agreed to practice local language skill with their peer group. Except for 4.8% students, 93.5% students accepted the session was beneficial not only for improving doctor patient relationship but also for other purposes. 44 students answered the open question in feedback form(Annexure) as Graph IV. From Table-II, and Graph II,III,IV it is quite evident that the students understood the role of knowing local language very well as also the importance of it to improve the doctor-patient relationship.

IV.DIscussion:

The whole study was planned according to the recommendation of MCI for the Foundation course. In “Medical Education in India: Current challenges and the way forward” Anjali Solanki et al, shown the right pathway for the changes needed in Medical education system[8]. As anticipated the study was taken up by the whole batch of students very enthusiastically. Mentor students took great initiative to teach Bengali to the group participants. They have successfully made the participants talk and communicate with the patients in Bengali. We tried to involve not only the non Bengali students but also the Bengali speaking students in this project. It was a challenge to make the non Bengali students motivate to learn Bengali as 65 students out of 100 were from outside West Bengal. Their languages were, Assamese, Oriya, Tamil, Telugu, Kannada, Rajasthan, Bhojpuri, Bihari, Malayalam, Marathi etc. As the students understood the importance of knowing local language they learned Bengali very quickly. They used the knowledge during their early clinical exposure classes. In the result it is being reflected very well. They understand local language, Bengali more(15.38%) after the whole session ,they communicated(talked) more with people in Bengali (23.07%) ,they were able to introduce themselves to a patient in Bengali more confidently than before (12.31%), they were able to ask the patient his/her name in Bengali(24.62% more than before), they were able to ask the patient his/her problem in Bengali (30.76% more), and they were able to understand the patient’s problem in Bengali (29.23% more) and communicated accordingly. As compared with the study done by Burbano O’Leary SC[9] our study also showed that with the idea of local language students were more confident than before. Same type of studies were done by Monroe AD and Shirazian T[10] & Timmins CL[11] to prove that linguistic barriers can always affect health care delivery system and doctor patient relationship.

Sample size was not large(100) and the duration was only two months for this study to be completed, so any concrete inference cannot be drawn from this study. For getting better idea of knowing importance of local language we can extend the study for the next whole year or more. Therefore, this study will continue in future for evaluating the impact regarding understanding the role of local language in health care delivery system.

V.CONCLUSION:

Sensitization of the students and teachers about competency based curriculum was done successfully with role play , video and lecture classes. Students’ idea about the local languages before and after the starting of foundation course was taken with same questionnaire that showed positive influence and statistically significant results. The observation check list was used to note the use of local languages by the students during early clinical exposure and it was found that students were using local language successfully. They were able to ask the patient his/her problem in Bengali, 30.76% more than before, and they were able to understand the patient’s problem in Bengali 29.23% more than before. There was significant increase in use of local language and more interactions were made during early clinical exposure classes than before. After getting the feedback of students about the change in orientation (after getting some idea about the local language during foundation course and its use during early clinical exposure ) we draw an impact pathway that showed how they understood the ways and need for knowing the local language (100%), and improving in the class (100%). They also understood that local language class was useful for interacting well with patients and relatives (95.2% cases). After the session 100% students got motivated to know the local language more than before and 96.8% understood that there were possible ways to improve local language skill(communication) in future . 90.3% agreed to go on practicing the local language skill with classmates and seniors too.

As per the enthusiasm shown by the students (both the participants and mentors) it was quite obvious that the project was successful to imbibe the idea among the students about the importance of knowing local language during Foundation course in 1st year MBBS course. The data analysis showed positive outcome i,e, there were improvement in students attitude and communication skill regarding patient interaction after the orientation classes for local language(Bengali).

Therefore, we can conclude that the orientation classes in local language for Bengali as a part of foundation course in new competency based medical education curriculum was effective in understanding the patients’ problem thereby improving doctor patient relationship.

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VII. REFERENCES


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### ANNEXURE

**Table- 1: Comparison of pre and post test scores,**

*(done by t test for the 1st six(6)questions.)*

<table>
<thead>
<tr>
<th>Variables</th>
<th>Mean</th>
<th>[95% Confidential Interval]</th>
<th>P value</th>
</tr>
</thead>
<tbody>
<tr>
<td>q1_pre</td>
<td>2.4</td>
<td>2.064113</td>
<td>2.735887</td>
</tr>
<tr>
<td>q1_pst</td>
<td>3.569231</td>
<td>3.165459</td>
<td>3.973002</td>
</tr>
<tr>
<td>q2_pre</td>
<td>2.215385</td>
<td>1.910355</td>
<td>2.520414</td>
</tr>
<tr>
<td>q2_pst</td>
<td>3.153846</td>
<td>2.797366</td>
<td>3.510326</td>
</tr>
<tr>
<td>q3_pre</td>
<td>2.8</td>
<td>2.422682</td>
<td>3.177318</td>
</tr>
<tr>
<td>q3_pst</td>
<td>3.661538</td>
<td>3.315863</td>
<td>4.007214</td>
</tr>
<tr>
<td>q4_pre</td>
<td>3.461538</td>
<td>3.043507</td>
<td>3.87957</td>
</tr>
<tr>
<td></td>
<td>q4_pst</td>
<td>q5_pre</td>
<td></td>
</tr>
</tbody>
</table>

For the next 7 questions comparison was not done as these questions were for Hindi.
Table-II : Role of Local language—Bengali in orientation of medical students.

<table>
<thead>
<tr>
<th>SL.NO</th>
<th>STATEMENT</th>
<th>Yes %</th>
<th>No %</th>
<th>May be %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The need for knowing the local language is made clear in the class.</td>
<td>100%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Ways of knowing the local languages and improving it are made clear in the class.</td>
<td>100%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Local language class is useful for interacting well with patients and relatives.</td>
<td>95.2%</td>
<td>4.8%</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>After the class I got motivated to know the local language more than before.</td>
<td>100%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>There are possible ways to improve my local language skill(talking) in future.</td>
<td>96.8%</td>
<td>3.2%</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Local language class was beneficial not only for improving doctor patient relation but also for other purposes</td>
<td>93.5%</td>
<td>4.8%</td>
<td>1.6%</td>
</tr>
<tr>
<td>7</td>
<td>Will you go on practicing the local language skill with your classmates and seniors?</td>
<td>90.3%</td>
<td></td>
<td>9.7%</td>
</tr>
</tbody>
</table>

Graph-I: Comparison of changes in pre vs post test
Graph-II: Usefulness of local language class for interaction with patients and relatives.

Graph III: Usefulness of local language class to improve doctor patient relationship and other purposes.
Graph IV: Ideas of the students regarding usefulness of knowing local language.
Questionnaire For Students

NEET rank…

Age…

Sex…

Place of residence…

Languages…

(Give your opinion according to the 6-point Likert scale which reads:

Very strongly Disagree 1  Agree 4
Strongly Disagree  2                             Strongly agree 5
Disagree 3                                     Very strongly agree 6)

1. Do you understand local language, Bengali ?(yes/no)
2. Can you freely communicate(talk) with people in Bengali?(yes/no)
3. Will you be able to introduce yourself to a patient in Bengali? (yes/no/may be)
4. Will you be able to ask the patient his/her name in Bengali? (yes/no/may be)
5. Will you be able to ask the patient his/her problem in Bengali? (yes/no/may be)
6. Will you be able to understand the patient’s problem in Bengali ? (yes/no/may be)
7. Do you understand Hindi ?(yes/no)
8. Can you freely communicate(talk) with people in Hindi?(yes/no)
9. Will you be able to introduce yourself to a patient in Hindi? (yes/no/may be)
10. Will you be able to ask the patient his/her name in Hindi? (yes/no/may be)
11. Will you be able to ask the patient his/her problem in Hindi? (yes/no/may be)
12. Will you be able to understand the patient’s problem in Hindi? (yes/no/may be)
13. Will you be able to communicate with your fellow students from different part of the country in Hindi? (yes/no/may be)