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Original Research Article

Assessment of labor room communication skills among postgraduate students of obstetrics and gynecology

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ABSTRACT

Background: “Communication with patients” is an important skill needed for every physician in their clinical practice. These soft skills are required in dealing with patients at every step which include history taking from the patients, explaining them the diagnosis, the prognosis of the disease with associated complications. Dealing with empathy, taking informed consent, explaining the operative procedure and the complications associated with surgery, the art of breaking bad news are the mandatory skills for a good clinician. Labouring women like other patients also require special attention and empathy. So, the residents working in labor room need commitment to develop these soft skills in order to improve the labor room experience of expectant mothers. Objective of this study was to analyse role of a formal training in labor room communication skills among post graduate students of the department of obstetrics and gynecology.

Methods: Faculty and students’ sensitization was done after approval from institutional ‘ethics committee’ for conducting this study. Pre-workshop assessment of residents for communication skills attitude and effective communication was done through ‘communication skill attitude scale’ (CSAS) and ‘GAP-KALAMAZOO scale’. Workshop for communication skills on the framework of Calgary Cambridge patient interview model and online teaching of students through what’s app videos, role-play demonstrations was followed by reassessment of the residents through above used scales.

Results: Results depicted both improvements in attitude and effective communication skills among residents. 100% of the students were convinced and opined that good communication skills necessary for perfect clinical practice.

Conclusions: The skill to communicate with patients is a fine art and needs to be mastered to be a good clinician. A formal training in effective communication skills is absolutely necessary to bring professionalism in medical practice.

Keywords: Communication skills, Labor room, Parturient, Post graduate students

INTRODUCTION

“Communication with patients” is one of the core clinical skills which every physician needs to possess. These skills include the art of history taking from the patients, explaining the diagnosis, the prognosis and the risk of associated complications, taking informed consent, detailing preoperative orders to the patients undergoing

diagnostic and therapeutic procedures, giving therapeutic instructions, the art of breaking bad news and counselling the patients for compliance in treatment and needed lifestyle modifications.¹⁻³ Traditional medical teaching imparts students with theoretical and practical knowledge that addresses their cognitive and psychomotor domains only and does not teach them the communication skills which are most essential in dealing

with patients, specially laboring women.^{4,5} Establishment of good doctor-patient relationship is proportional to good communication skills. Good communications and counselling techniques can be taught and practiced in labor room to improve patient cooperation during labor, decrease maternal and fetal complications and increase maternal satisfaction thus improving doctor patient relationship.

As per WHO guidelines published in February, 2018, it recommends effective communication, using simple and culturally acceptable methods, between maternity care providers and women in labor.⁶ Communicating softly with the patients, listening them carefully with supportive and empathetic attitude is key to establish good rapport with them. Patients appreciate those doctors who listen them actively, encourage them clear their doubts, value their privacy and comfort. Non-verbal communications such as body language, facial expression, touch, gestures eye contact, are important parameters for effective doctor patient relationship.⁷

Arrogance, talking to patients using medical terminology and not in the language that patient can understand, giving inadequate time for doctor patient encounter are some of the factors detrimental to effective communication which creates misconduct and may lead to medico legal complications.⁸ Usually, in the absence of formal teaching, students learn communications skills from their seniors or teachers by observing them so may learn good as well as bad soft skills that their seniors or

teacher possess. Several professional bodies and also The Vision 2015 document of the MCI advocate the need to incorporate communication skills training within the formal curriculum of medical students.⁹

Aims and objectives

- To assess and improve labor room communication skills among post graduate students of the department of obstetrics and gynecology.
- To improve confidence of the students in communicating with patients.
- To improve labor room experience of the parturing mother.

METHODS

After taking approval from institutional ethics and research committees, this study was conducted in department of obstetrics and gynecology of Dr Rajendra Prasad Govt. Medical College, Kangra (Tanda) on communication skills between post graduate students and laboring patients in the month of August 2019. 1st year post graduate students were excluded from the study as their labor room experience was less and they had very little knowledge about the working of department.

A sensitization programme for participating faculty and students regarding the study was conducted and the purpose and nature of the study will be explained.

Table 1: Gap-Kalamazoo communication skill assessment form (GKCSAF).

Competency and sub-competency	Score (Likert scale)	
A. Builds a relationship	Poor	1
a. Greets and shows interest in the patient and patient's family	Fair	2
b. Uses words that show care and concern throughout the interview	Good	3
c. Uses tone, pace, eye contact, and posture that show care and concern	Very good	4
d. Responds explicitly to patient and family statements about ideas and feelings	Excellent	5
B. Opens the discussion	Poor	1
a. Allows patient and family to complete opening statements without interruption	Fair	2
b. Asks "Is there anything else?" to elicit full set of concerns	Good	3
c. Explains and/or negotiates an agenda for the visit	Very good	4
	Excellent	5
C. Gathers information	Poor	1
a. Addresses patient and family statements using open-ended questions.	Fair	2
b. Clarifies details as necessary with more specific or "yes/no" questions	Good	3
c. Summarizes and gives family opportunity to correct or add information	Very good	4
d. Transitions effectively to additional questions	Excellent	5
D. Understands the patient's and family's perspective	Poor	1
a. Asks about life events, circumstances, other people that might affect health	Fair	2
b. Elicits patient's and family's beliefs, concerns, and expectations about illness and treatment	Good	3
	Very good	4
	Excellent	5
E. Shares information	Poor	1
a. Assesses patient's and family's understanding of problems and desire for more	Fair	2

Competency and sub-competency	Score (Likert scale)	
information	Good	3
b. Explains using words that family can understand	Very good	4
c. Asks if family has any questions	Excellent	5
F. Reaches agreement (If new/changed plan)	Poor	1
a. Includes family in choices and decisions to the extent they desire.	Fair	2
b. Checks for mutual understanding of diagnostic and/or treatment plans	Good	3
c. Asks about acceptability of diagnostic and/or treatment plans	Very good	4
d. Identifies additional resources as appropriate	Excellent	5
G. Provides closure	Poor	1
a. Asks if patient and family have questions, concerns or other issues	Fair	2
b. Summarizes	Good	3
c. Clarifies future time when progress will again be discussed	Very good	4
d. Provides appropriate contact information if interim questions arise	Excellent	5
e. Acknowledges patient and family, and closes interview	Excellent	5
H. Demonstrates empathy	Poor	1
a. Clinician's demeanour is appropriate to the nature of the conversation	Fair	2
b. Shows compassion and concern	Good	3
c. Identifies/labels/validates patient's and family's emotional responses	Very good	4
d. Responds appropriately to patient and family's emotional cues	Excellent	5
I. Communicates accurate information	Poor	1
a. Accurately conveys the relative seriousness of patient's condition.	Fair	2
b. Took other participating clinician's input into account.	Good	3
c. Clearly conveys expected disease course.	Very good	4
d. Clearly presents and explains options for future care.	Excellent	5
e. Gives enough clear information to empower decision making	Excellent	5

Students' pre-workshop attitude towards importance and learning of communication skills was assessed using Communication Skills Attitude Scale (CSAS).¹⁰ CSAS consists of 26 items, 13 of which are written in the form of positive statements and 13 negative statements about communication skills learning. Each item is accompanied by a 5-point Likert scale.

Also, their pre-workshop knowledge about effective communication skills was assessed by observing their encounter with the patients by faculty of obstetrics and gynecology, self-assessment done by students themselves and 100 patients/attendants recruited for study after due consent for their labor room experience using gap-kalamazoo communication skill assessment form (GKCSAF).¹¹⁻¹³ Both patient satisfaction questionnaire (PSQ) communication competence using self-rating communication competence questionnaire (SRCCQ) were based on KALAMAZOO scale.

GKCSAF (Table 1) includes 9 evidence-based core communication competencies and 34 sub competencies to assess effective physician-patient relation (build a relationship; open the discussion; gather information; understand patient's perspective; share information; reach agreement; provide closure; demonstrates empathy; and communicates accurate information).

Workshop for communication skills (both verbal and nonverbal) was conducted for participating students

using a framework of Calgary Cambridge patient interview model through interactive lectures, small group discussions, sharing videos through Whatsapp, and role play demonstrations by the students themselves about doctor-patient encounters.¹⁴ WHO recommendations on effective communications, published in February 2018 were discussed.⁶ Further students were advised to do self-directed learning using internet. Again, after workshop students were reassessed by post training CSAS questionnaire and GKCSAF by faculty. The students again did self-assessment of communication competence using self-rating communication competence questionnaire (SRCCQ based on KALAMAZOO scale). Another set of 100 patients were assessed by patient satisfaction questionnaire (PSQ based on KALAMAZOO scale) about their labor room experience. Data collected was compiled and analyzed by Epi-info software version 3. Descriptive statistics, means and standard deviations were calculated for socio-demographic profile, CSAS score. Results for effective communication skills, observed through KALAMAZOO scale, were analyzed by "two sample independent 't'-test".

RESULTS

Socio-demographic profile

Mean age of the participants was 28.86 years. 4 (13.8%) were males and 25 (86.3%) were females. 15 (51.8%)

students were in 2nd year while 14 (48.2%) students were in 3rd year of their residency programme (Table 2).

Table 2: Students' profile.

	Male	Female
2 nd year	0	15
3 rd year	4	10
Total	4	25

Chi-square test ($\chi^2=4.9$, Df = 1 and p = 0.02577).

A total 27 (93.1%) students were of the opinion that role plays and videos were the most effective method of learning and improving communication skills while 2 (6.9%) stated that they learnt better through demonstrations.

CSAS (communication skills attitude scale) observations

Pre workshop attitude of the students for learning communication skills was assessed using communication skill assessment scale. 21 (72.4%) students were of the view that doctor patient communication is very important while post workshop all the students (n=29, 100%) changed their opinion and opined that the communications skills are the integral part of clinical skills and are absolutely necessary for good doctor patient relationship. 28 (96.5%) students felt more confident in treating patients after learning communication skills. 27 (93.1%) of the students were of the view that learning these soft skills will be helpful in their future practice

also while these pre-workshop figures were 24 (82.7%) and 23 (79.3%) respectively (Table 3).

Positive attitude for learning communication skills increased from 25 (86.3%) to 100% after the workshop.

All the students (n=29, 100%) were convinced with the utility of communication skills in medical practice and were of the view that a formal training on these soft skills should be introduced in their teaching schedule in the 1st year of their residency programme.

Work place assessment

Labor room communication skills of the students were assessed by faculty, self-assessment done by students themselves and patients/attendants using GAP-KALAMAZOO scale both before and after the workshop.

It was observed that there was significant improvement in all the skill competencies assessed by faculty (Table 4) as the p value was significant in all except competency 'F'. Even the self-assessment done by students themselves (Table 5) depicted the improvement in all the examined parameters of communication skills except 'C'.

However, the results were different in the patients/attendants assessed communication skill competencies as the p value was only significant in 4 out of 9 parameters 'B, F, G, H'. There was significant p value in competency 'G' indicating significant improvement in empathy among residents after workshop (Table 6).

Table 3: Communication skills aptitude.

	Important		Doctor-patient relationship improved		Helpful in future practice	
	Yes	No	Yes	No	Yes	No
Pre-workshop	21	8	24	5	23	6
Post-workshop	29	-	28	01	27	02

Chi-square test ($\chi^2=14.57$, Df = 5 and p = 0. 01234).

Table 4: Faculty assessment using KALAMAZOO assessment scale.

	Pre-workshop n=29	Post- workshop n=29	p value	CI	Lower limit	Upper limit
Builds a relationship	Mean=2.72 SD=0.441	Mean=3.52 SD=0.509	<0.0000001	95%	-1.05396	-0.546035
Opens the discussion	Mean=2.75 SD=0.455	Mean=3.56 SD=0.506	<0.0000001	95%	-1.06232	-0.557682
Gathers information	Mean=3.31 SD=0.541	Mean=3.59 SD=0.501	<0.04557	95%	0.554286	-0.005714
Understands the patient's and family's perspective	Mean=2.48 SD=0. 509	Mean=3.07 SD=0. 258	0.0000007	95%	-0.802277	-0.377723
Shares information	Mean=2.34 SD=0.484	Mean=3.21 SD=0.412	<0.0000001	95%	-1.10644	-0.63356
Reaches agreement (if new/changed plan)	Mean=2.69 SD=0.471	Mean=2.83 SD=0.384	0.2199	95%	-0.36605	0.086057

	Pre-workshop n=29	Post- workshop n=29	p value	CI	Lower limit	Upper limit
Provides closure	Mean=3.03 SD=0.421	Mean=3.52 SD=0.509	0.0001909	95%	-0.735716	-0.244284
Demonstrates empathy	Mean=2.52 SD=0.574	Mean=3.52 SD=0.509	<0.0000001	95%	-1.28538	-0.714619
Communicates accurate information	Mean=2.9 SD=0.31	Mean=3.59 SD=0.501	<0.0000001	95%	-0.910091	-0.469909

CI = Confidence limit.

Table 5: Self-assessment of communication skills by students using KALAMAZOO assessment scale (SRCCQ).

	Pre-workshop n=29	Post- workshop n=29	p value	CI	Lower limit	Upper limit
Builds a relationship	Mean=3.31 SD=0.471	Mean=4.0 SD=0.267	<0.0000001	95%	-0.89262	-0.48738
Opens the discussion	Mean=3.59 SD=0.501	Mean=3.9 SD=0.489	0.02051	95%	-0.570425	-0.0495749
Gathers information	Mean=3.69 SD=0.471	Mean=3.9 SD=0.31	0.05055	95%	-0.420527	0.00052743
Understands the patient's and family's perspective	Mean=3.86 SD=0.693	Mean=4.0 SD=0.267	0.3168	95%	-0.419691	0.139691
Shares information	Mean=3.66 SD=0.484	Mean=3.93 SD=0.258	0.01119	95%	-0.475398	-0.0646019
Reaches agreement (if new/changed plan)	Mean=3.72 SD=0.455	Mean=4.1 SD=0.409	0.01474	95%	-0.607585	-0.152415
Provides closure	Mean=3.76 SD=0.511	Mean=4.03 SD=0.186	0.01132	95%	-0.475001	-0.0649994
Demonstrates empathy	Mean=3.69 SD=0.471	Mean=4.0 SD=0	0.01404	95%	-0.48916	-0.13084
Communicates accurate information	Mean=3.62 SD=0.494	Mean=3.97 SD=0.186	0.001033	95%	-0.548795	-0.151205

SRCCQ: Self-rating communication competence questionnaire, CI: Confidence limit.

Table 6: Assessment of communication skills by patients using KALAMAZOO assessment scale (PSQ).

	Pre-workshop n=100	Post- workshop n=100	p value	CI	Lower limit	Upper limit
Builds a relationship	Mean=2.77 SD=0.468	Mean=2.87 SD=3.338	0.7673	95%	-0.768489	0.568489
Opens the discussion	Mean=2.32 SD=0.75	Mean=2.57 SD=0.573	0.008777	95%	-0.436208	-0.0637923
Gathers information	Mean=2.63 SD=0.544	Mean=2.55 SD=0.592	0.3209	95%	-0.078547	0.238547
Understands the patient's and family's perspective	Mean=2.43 SD=0.782	Mean=2.38 SD=0.616	0.6161	95%	-0.146376	0.246376
Shares information	Mean=1.98 SD=0.586	Mean=2.1 SD=0.611	0.1579	95%	-0.286948	0.046948
Reaches agreement (if new/changed plan)	Mean=2.09 SD=0.588	Mean=2.46 SD=0.558	0.0000087	95%	-0.529855	-0.210145
Provides closure	Mean=2.31 SD=0.486	Mean=2.52 SD=0.502	0.002994	95%	-0.347786	-0.0722136
Demonstrates empathy	Mean=2.05 SD=0.5	Mean=2.39 SD=0.53	0.00000564	95%	-0.483686	-0.196314
Communicates accurate information	Mean=2.48 SD=0.541	Mean=2.67 SD=0.533	0.1317	95%	-0.339764	-0.0402355

PSQ: Patient satisfaction questionnaire, CI: Confidence limit.

DISCUSSION

Good communication skills are an important art for good clinical practice. In tradition teaching there is no formal training and students learn these skills by observing their seniors, teachers and mentors.

Chaudhary et al. studied the attitude of the students towards learning the communication skills and found that only 78.1% of the student exhibited positive attitude towards learning these soft skills.³ In a similar study by Laiane and associates observed the improvement in communication skill attitude in 80% of their participants.¹⁵ 80% of the students admitted that there was significant improvement in their communication skills after the workshop. In the present study, before workshop, 21 (72.4%) students were of the view that doctor patient communication is very important while post workshop all the students (n=29, 100%) admitted that these are absolutely necessary for being good clinician. The improvement in the CSAS score was in agreement with the study done by Laiane and associates.¹⁵ Wright et al, also studied students' attitude toward learning these skills.¹⁶

They observed that the positive attitude increases by perceived relevance of the skills by the students. In the present study, high attitude of our residents for learning these communication skills was due to fact that they were aware of the importance of these skills. So the results of our study are concordant to the findings made Wright et al. in their studies.¹⁶ Isabel et al, stated that 100% of the students were of the view that communication skills are important, affects doctor's competence and professional satisfaction.¹⁷ These findings were in accordance to our study, post workshop all the students 100% opined that the communications skills are the important tool for good doctor patient relationship. 28 (96.5%) were confident in treating patients after learning communication skills. 27 (93.1%) of the students considered these skills as asset for future practice.

Isabel et al, in their exploratory study on communication skills among medical students before and after the clerkship used SEGUE framework for the assessment of communication skills.¹⁷ In their study mean age of participants was 22.7 years (SD 0.63). Twenty-six were males (38.2%) and 42 were females (61.8%).

All students were of same class. In this study mean age of the participants was 28.86 years. 4 (13.8%) were males and 25 (86.3%) were females. 15 (51.8%) students were in 2nd year while 14 (48.2%) students were in 3rd year of their residency programme. The difference in the mean age was due the fact that authors were assessing the communication skills of our residents in their post-graduation and we had included the students of 2nd and 3rd year to increase the sample size of the study group.

There are different observations by different researchers regarding the changes in learned communication skills.¹⁸⁻²⁰ In the present study pattern regarding the changes in different communication competencies was uniform and there was statistical improvement in the communication skills assessed by faculty and students themselves as the p value was significant in almost all the communication competencies while a complex pattern was observed by the soft skills assessed by patients and her attendants. Interestingly, gathers information, reaches agreement, provides closure and demonstrates empathy components of skill competencies showed an improvement among patients/attendants assessed residents. This could be due to the greater clinical experience of the residents that have contributed to a more empathic behavior.

CONCLUSION

The skill to communicate with patients is a fine art that needs to be mastered for being a good clinician. A formal training in effective communication skills is absolutely necessary to bring professionalism in medical practice. The present study points towards the need of regular training in effective communication skills should be included in the medical school curriculum. Such sort of studies on workplace assessment will definitely improve clinical competence of medical professional.

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