

Interns training programme for Protocol based assessment & primary management of polytrauma patients.



Bharati Vidyapeeth University Medical College, Pune-411 043 Maharashtra, India.

Dr. Mrunal N. Ketkar. M.S. (Gen. Surgery), Associate Professor, Dept. Of Surgery,

Background

A common observation world wide is that the clinical skills of medical graduate are on a decline. The year of internship should be utilized to inculcate application of theoretical knowledge and critical decision making. In our project Protocol Based approach and Case Based Learning (CBL) have been used to achieve these goals.

Aims & Objectives

- To introduce protocol based assessment as part of Intern training.
- To introduce Case Based Learning (CBL).
- To evaluate the project by quantitative & qualitative methods.

Material and methods

- Study group : 30 (Interns, Jr. Residents from Surgery, Orthopedics, Medicine & Anesthesia)
- Pre-reading material given a week prior.
- Faculty training.

Day One

Check list based assessment.

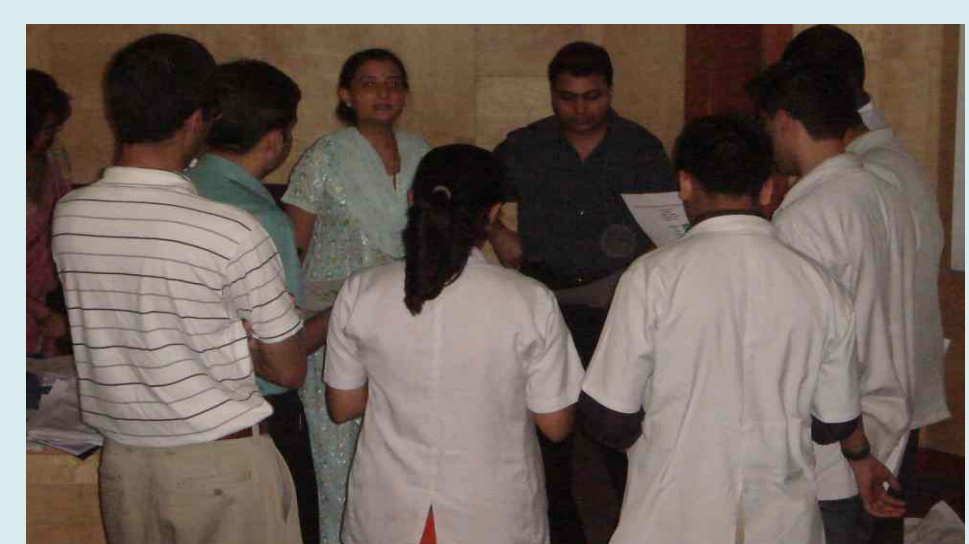
Day Two

Morning session:-

- MCQ Pretest.
- Lecture on "Protocol based assessment and primary management of polytrauma patients".

Afternoon session:-

Demonstration & Hands on training.
Students split in group of 5-6 each.



CBL Demonstration.



Orthopedic Demonstrations.



Hands on training in BLS.



Neo-natal and pediatric CPR.

Day Three



CBL Demonstration and Practice session.



After one week

- CBL Check list based assessment.
- MCQ Post-test .
- Feedback Questionnaire I filled.
- Asked to maintain log book .

After 3 months

- Feedback Questionnaire II distributed.
- The feedback along with Log Books collected.

Reflections:

- The completion of project required a team & I had an excellent TEAM.
- Gave me confidence to experiment with newer teaching methods.

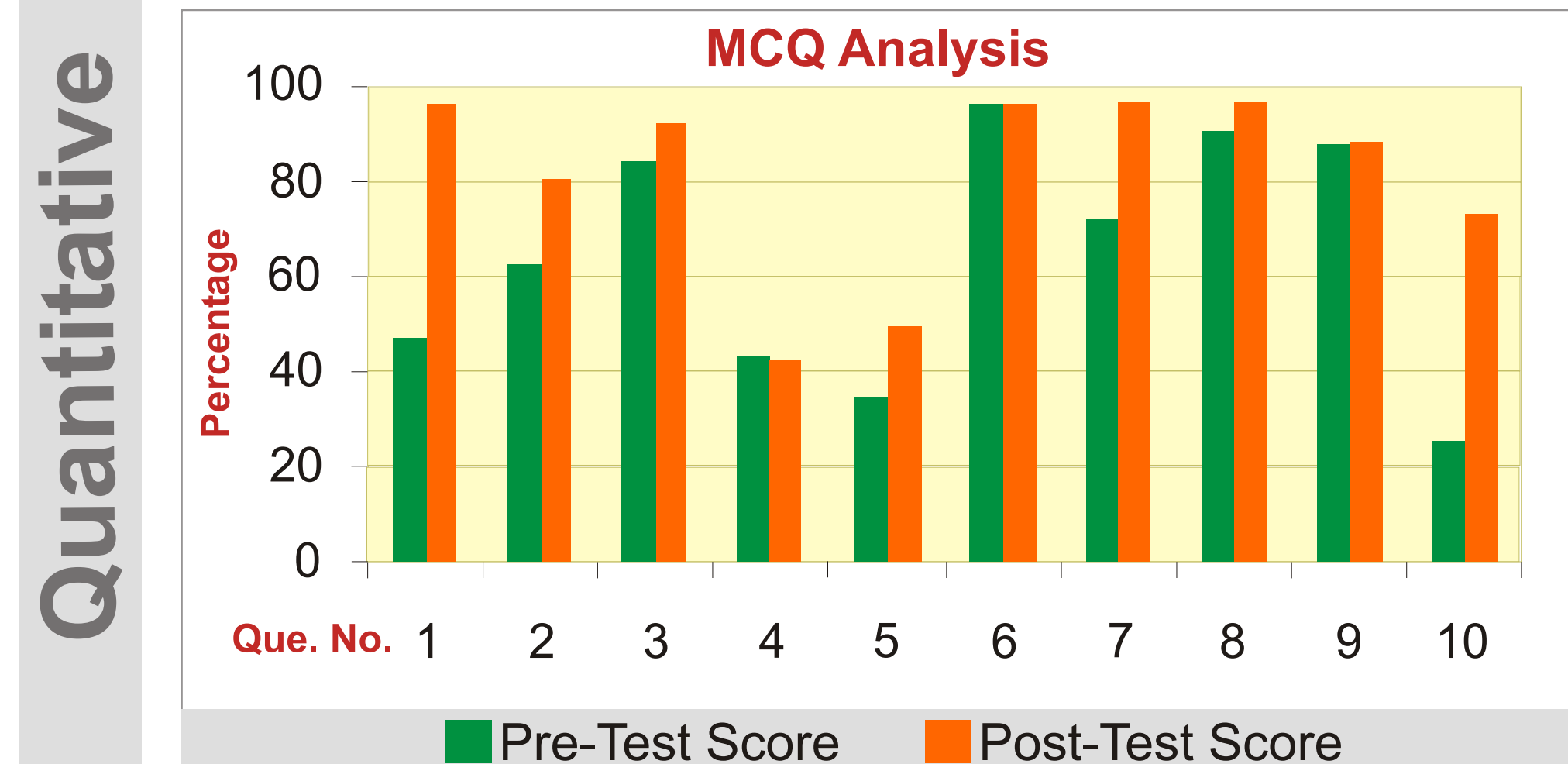


- Improved my organizational skills.

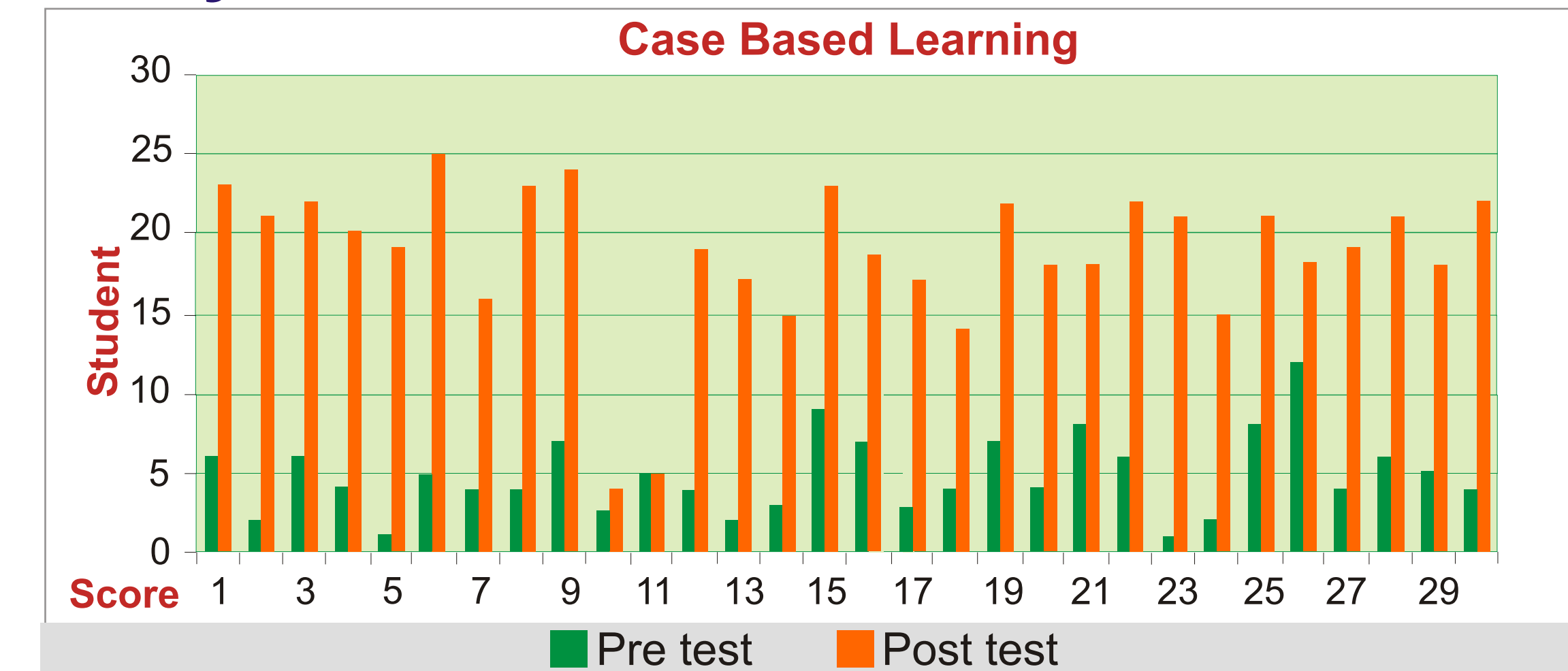
Acknowledgements : My TEAM from Surgery Department and Clinical Co-ordination Committee.

Outputs & results

MCQ: Analysis of Pre and Post test.



Analysis of Check list based assessment.



Feedback Questionnaire I :-

I) Awareness of CBL as teaching method-

- only 7.1 % were aware.
- 58% agreed that CBL gave them opportunity similar to hands on training.



II) About the training programme-

III) About Protocol based approach & Self assessment by learners-

Qualitative

Questions	Response
Appropriate time	61 % thought beginning of internship was appropriate
Difficulty level	73.1 % Easy
	5.4% Not So difficult
Pace of teaching	96.2% adequate
Gain knowledge at the end of session	19.2% thought 75 -100%gain
	53.8% thought 50 -75%gain
	23.1% thought 25 -50%gain
Overall impression about the teaching learning	57.7% - Excellent
	34.6% - Good
	7% - Fair

Sr no.	Questions	Strongly agree	Agree	disagree	Undecided
1	Need for a protocol based approach to clinical emergencies.	53.8%	42.3%		
2	Improved confidence in approach to polytrauma.	34.6%	57.7%		7.7%
3	Improved decision making in Critically ill patient.	38.5%	53.8%		7.7%
4	Will help to recognize life threatening condition early.	30%	61.5%	3.8%	3.8%
5	Participation in emergency		as initiator 46.2%		as assistant 30.8%

Feedback Questionnaire II analysis:- > 97% claimed to have increased level of confidence

- Few responses to the open ended questions-
- "Ideal way of learning"
 - "Helps us to think and act fast"
 - "Opportunity to be in the decision maker's shoes"
 - "Gave us a feel of real life situation"

Discussion

Intern training programme

- History taking and clinical examination well covered at the UG level.
- There is a need for formal education programme for interns.
- It gives opportunity to apply knowledge, improve clinical reasoning, & acquire essential practical skills & attitudes effectively.

Case Based Learning

- Cases have traditionally been used to teach decision making skills.
- Advantages
 - Develop critical thinking (sort out factual data, apply analytic tools, articulate issues, reflect on their experiences, and draw conclusions.)
 - Develop communication skills.
 - Opportunity to see theory in practice.
 - More engaged, interested, & involved.

Protocol based assessment & management

- Simplifies the management , clinically safe.
- Uniformity in approach to the emergency.
- Standardizes the assessment and evaluation of patient.
- Avoids confusion, repetition of actions and expedites the management.

Conclusions

- Training programme for Interns is essential. It facilitates application of theory in practice.

CBL facilitates-

- analytical thinking,
- application of knowledge,
- simultaneous treatment decisions,
- opportunity similar to hands on training
- Protocol based approach-
 - gave confidence and
 - simplified the management



Future

- Continue the intern training programme every year.
- Extend the concept of Protocol & CBL to other common emergencies.
- Conduct trauma life support programme.

Limitations

- Less number of interns.
- There is no way to measure improved level of confidence in clinical practice objectively.
- Lack of interdepartmental coordination.