

TO STUDY THE EFFECT OF DELIVERING KEY POINTS IN BIOCHEMISTRY ON ACADEMIC PERFORMANCE AND ATTITUDE OF MBBS STUDENTS

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INTRODUCTION

- ▶ Biochemistry is perceived as a collection of facts.
- ▶ Most of the students learn for the sake of completing the course.
- ▶ Many textbooks deliver contents in an abstract way; few books put contents in an easier way, but entire content is not covered.
- ▶ This project has been decided to equip the students with an outline of the contents in Biochemistry by delivering key points

GOAL

- ▶ Emphasizing key points in Biochemistry has effects on the academic performance and attitude of MBBS students

OBJECTIVES

- ▶ To study the effect of delivering key points on the academic performance
- ▶ To study the effect of delivering key points in stimulating interest in Biochemistry

METHODOLOGY

- ▶ Students of MBBS (2015 batch)-250 in number were enrolled. Teaching material in the form of key points was prepared and uploaded onto intranet, accessible to 2015 batch students. Performance in formative assessment exams was analyzed between 2015 batch students and students of previous four batches (2011-2014). Questionnaires were administered to 144 students of 2015 batch. Statistical analysis done; $p < 0.05$ was considered statistically significant. Ethics committee clearance was obtained for this study

INCLUSION CRITERIA

- ▶ Performance of MBBS in Formative assessment examinations from 2011 to 2015. Response to the questionnaire from students of 2015 batch

EXCLUSION CRITERIA:

- ▶ Students who are not willing to participate

RESULTS

▶ Performance of students:

One way ANOVA showed significant difference ($P < 0.0001$) as shown by performance of students in IA exams.

Post-hoc test showed performance of 2015 batch students showed statistical significant difference in almost all IA exams when compared from 2011 to 2014 except on 2 occasions.

Response to Closed ended questions

Score	Relevant	Met objectives	Interesting	Useful	Complete content	Accessibility	timely upload	Academic performance	Like Biochemistry	Self-directed study
Strongly agree	48	35	28	47	35	50	40	40	34	36
Agree	44	52	47	39	48	42	46	50	44	45
Don't know	1	6	17	8	4	3	6	6	13	10
Disagree	2	6	7	5	11	4	7	3	7	8
Strongly Disagree	4	0	1	1	2	1	1	1	2	1

What is the best aspect of training involving key points?

Item	Proportion (%)
Facilitated Learning	24
Obtaining more Marks	6
Adequacy of contents	15
Created interest in subject	4
Exam oriented	15
Presentation of contents	36

What aspect of the training involving key points needs improvement?

Item	Proportion (%)
Time of upload	22
Content	25
Q & A include	5
Hard copy	4
Interactive	2
Clinical oriented	2
Diagram & flowcharts	20
Mark distribution	2
Search provision	5
Research	1
No improvement needed	10

DISCUSSION

- ▶ Key points improved academic performance
- ▶ Students liked presentation & adequacy of contents
- ▶ Key points helped them in learning, esp. just before examinations.
- ▶ Few students started liking Biochemistry.
- ▶ Some felt that teaching material were uploaded closer to exams; this was done to encourage students to read on their own and use these points for final revision

CONCLUSION

- ▶ Improvement in Academic performance
- ▶ Students have developed interest towards the subject
- ▶ There is a change in the attitude of students towards learning Biochemistry

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