Self-directed deep learning with a peer-to-peer challenge: evaluation of e-learning at HKUMed
BLENDED LEARNING APPROACH

Interactive Forum
Live active learning sessions

Instructional videos with self-assessment questions
Questions with feedback

Online Forum
Asynchronous forum discussions on Moodle (LMS)
Does a switch to e-learning impact student learning?
What are the main drawbacks of e-learning?
AIM:
Evaluate students’ study process and experience in order to understand the impact of e-learning initiatives
METHODS

WHAT WE DID...

1. SURFACE / DEEP LEARNING (REVISED STUDY PROCESS QUESTIONNAIRE, R-SPQ-2F)

2. LEARNING EXPERIENCE (QUESTIONNAIRE)

3. LEARNING EXPERIENCE (IN-DEPTH INTERVIEWS)
Blended Learning

Year 1 MBBS students
(N=65)

Traditional Classroom Learning

Year 2 MBBS students
(N=24)
Year 1 MBBS (Blended learning)

Year 2 MBBS (Traditional learning)

Deep Approach
Surface Approach

*P<0.005

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STUDENT PERCEPTION

Learning Experience Questionnaire
Blended Learning

Year 1 MBBS students (N=46)

Traditional Classroom Learning

Year 2 MBBS students (N=16)
1. Stimulated my interest such that I do more outside reading on the subject.
2. Encouraged me to ask questions about issues and topics in this field.
3. Allows me to develop autonomy in learning.
4. Has a manageable workload.
5. Provides good quality feedback.
6. Provides good lecturer-student interactions.
7. Provides good student-student interactions.
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STUDENT PERCEPTION

QUALITATIVE EVALUATION

Learning Experience
In-Depth Interview
Interview till saturation of themes (12 Year 1 MBBS students)

Transcript recorded and validated

Data analyzed by grounded theory and thematic analysis
How does switching to e-learning impact student learning?
FLEXIBILITY ENABLES DEEP LEARNING

1. Reviewing lecture videos for revision
2. Adjusting learning pace
3. Choosing optimal time to study
4. Consolidate notes and research while watching lecture videos
E-Learning
Self-Directed Learning

Autonomy in learning

Learning challenges
INSTRUCTIONAL SCAFFOLDING - FACILITATE STUDENT LEARNING

1. Clear learning order
2. Clear and specific learning outcomes
3. Clarity of lecture materials (captions, visual aids, etc.)
4. Extra learning resources
5. Technical support for online tools
What are the main drawbacks of e-learning
HOW TO FACILITATE STUDENT-Student INTERACTIONS

Mutually supportive learning environment
Knowledge sharing
Supported by peers, seniors and teachers
Online wellbeing

Sense of isolation
Online Forum
Smaller group incentives
CO-CREATING THE CURRICULUM