Speed Up and Slow Down

Changes and Challenges of Medical Education During the Pandemic

Dr. Mark Best, Dr. Elise Everett, Dr. Peter Horneffer, Dr. Santiago Lorenzo, Dr. Teresa Pettersen, Dr. Bei Zhang
Evaluate Sessions and Win!

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*Each session evaluation completed (limited to one per session) = one contest entry

**Five (5) $25 gift cards** will be awarded

Must submit evals using the OLC conference website, beta platform mobile app
Disclosure Statement

The panel presenters have no financial relationship with the tools, programs or resource providers mentioned in this presentation.
U-PICK!
What Are Your Favorite Topics?

1. Successful and Unsuccessful online courses
2. TBL and PBL migration online
3. Online exam proctoring
4. Simulation and objective structured clinical examination (OSCE) during the pandemic
5. Popular learning tools and resources used by students
6. Popular teaching tools and resources used by faculty
7. Student and faculty support during the pandemic
8. Teaching and learning moments from the crisis
Preclinical Science

- Problem based learning (PBL)
- Clinical exam & osteopathic manipulative treatment labs
- Anatomy & mini-courses
- Key Elements
PBL

virtual

Pros?
Flexibility, no travel time

Cons?
Lack of effective connection and interaction, screen fatigue, tech problems

live

Pros?
More comradeship & interpersonal engagement

Cons?
Not flexible

hybrid

Pros?
More comradeship & interpersonal engagement

Cons?
### Objective Structured Clinical Examination (OSCE) lab sessions/teaching and feedback

<table>
<thead>
<tr>
<th>Pros</th>
<th>Cons</th>
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<tbody>
<tr>
<td>Swiftly timed</td>
<td>Setting limitations</td>
</tr>
<tr>
<td>Concepts are focused</td>
<td>Exam Room</td>
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<tr>
<td>Delivery Style</td>
<td>Personalization</td>
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<tr>
<td>Safety Measures</td>
<td>Orientation</td>
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</tbody>
</table>
Key Elements

- Be flexible
- Be a process expert, not a content expert
- Adapt to the constraints
- Ask questions
- Engage the students
- Support/Maintain social etiquette
Challenges to Delivering a Clinical Curriculum during Covid

- Student safety
- More with Less
  - Numbers and types of patients
  - Increased learner/patient ratios
  - Increased learner/faculty ratios
  - Physical space in clinical environment
- Assessment and Grading
Solutions to Delivering a Clinical Curriculum during Covid

- Student safety
  - Delayed entry into Clerkship
  - Batching
  - 8 week remote active learning curriculum
- Additional Training for Re-Entry
  - PPE, eye protection, hand washing, physical distancing, OSHA training
  - Public health education: The Green and Gold Promise
  - Symptom Screening and Covid testing (App)
  - Telehealth
Solutions to Delivering a Clinical Curriculum during Covid

- Numbers and Types of Patients
- Increased learner/patient, learner/faculty ratios
- Physical space in clinical environment

- Online cases
- Facetime, smartphones, tablets
- Virtual rounds
- Telehealth
Solutions to Delivering a Clinical Curriculum during Covid

- Assessment and Grading
  - Focus on Goals and Objectives
  - Less time based, more competency based
  - More longitudinal

- Changes
  - P/F NBME exam
  - Remote exam proctoring
  - P/F Clerkships (Bias)
  - Formative OSCEs
Technology

The Solution to Keeping Pace with Knowledge Acquisition

COVID 19’S SILVER LINING:

Social distancing has forced academia to explore the capabilities technology affords
Technology Affords a Transformation of the Educational Process

- **Lock step progression** → **Mastery-directed learning**
- **Historical precedent** → **Data-driven teaching and learning**
- **Testing to assign rank** → **Testing as a diagnostic and learning tool**
Teaching/Learning Platforms Are The Key!

- Curated content - Quality teaching materials in multiple formats
- Guided delivery
- Evidence-based strategies: Spaced retrieval/Interleaving
- Data tracking
- Greatly facilitate a student-centered active learning approach such as the flipped classroom
Key Elements of A Good Platform

- Video and text content library- first pass learning before coming to class- should be customizable
- Spaced retrieval algorithms built in: use AI to augment concept retention and understanding
- Remote proctoring- frequent testing key to good understanding of one’s progress. We are all poor judges of our own capabilities. Need for external calibration
- Mechanisms to promote non-confrontational interaction; in-class polling, game- like solution solving, Problem solving individually or in teams
- Data tracking and analyses
COVID 19’S SILVER LINING:

Forced academia to re-examine the education process
The Presenters

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