Pharmacy Technology: Teaching in a Virtual World

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The speaker and mentor have no actual or potential conflicts to disclose.



Learning Objectives for Technicians

- Outline how the pandemic impacted the classroom learning of pharmacy technician students.
- Explain how pharmacy educators need to change their teaching approach to accommodate student learning styles in an internet based classroom.
- Discuss potential ideas for maintaining classroom engagement during limited social interaction and practical learning tools.



Learning Objectives for Pharmacists

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Crisis Mode Learning

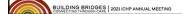
- Students used to resources at learning location
- **❖ Remote Meeting Rooms**
- Laptops and wifi hotspots
- ❖ Written lesson plans and grades -> mandatory LMS



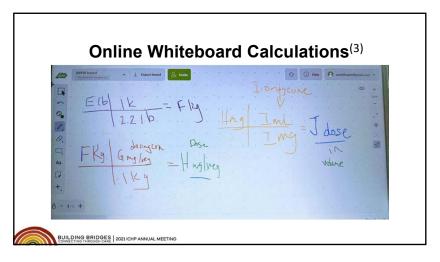


Crisis Mode Instruction

- **❖ Remote Meeting Rooms**
- **❖** Laptops and wifi hotspots
- ❖ Written lesson plans and grades → mandatory LMS
- ❖ Props and practical learning objects for labs







Pandemic Impact on Students

Financial

- ➤ Personal job loss
- > Family unit income adjustments

Social

- ➤ Lack of classmate & professor interaction
- Sequestering reduces positive time with friends

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Tactics for Reduction of Impact

Financial

- ➤ Laptop sign-out program
- ➤ Flexible course withdrawal & reenrollment

Social

- > Frequent office hours
- Develop classmate interaction activities
- Keep class synchronous for structure

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Pandemic Impact on Students

Mental

- ➤ Increased stress -> lack of focus
- ➤ Anxiety & Depression

Emotional

- ➤ Fear
- ➤ Loneliness
- ➤ Withdrawn & Isolated

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Tactics for Reduction of Impact

Mental

- Compassion for late assignments
- ➤ Longer & flexible testing times

Emotional

- Positive message announcements
- > Student check-ins
- Wellness Center referrals

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Q1 Which is *incorrect* about how students were impacted by the pandemic in Spring 20?

- A. Students initially did not have resources due to timing
- B. Students did not have any access to institution support
- C. They often encountered financial or emotional hardship
- D. Students were given the option take request incomplete grades

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Pandemic Impact on Program Pathway

Program Ideal

- Hands on practical curricula
- ➤ Clinical rotations

New Challenges

- ➤ Creative ways to simulate community/inpatient environments
- Limited sites taking students

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Challenges with Online Teaching

Questions

- Do they have the IT support?
- Are they comfortable sharing in their home?
- Do they understand how to use LMS

Possible Answers

- ➤ Direct to IT department
- ➤ Zoom backgrounds
- ➤ Instructor share

Challenges with Online Teaching cont.

Questions

- Are students even present?
- Lack of nonverbal cues to determine comprehension
- How do we ensure academic integrity?

Possible Answers

- ➤ Mandatory webcams
- ➤ Increase feedback looping
- ➤ Lockdown Browsers

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Class Management Transition to Online

Old Methods

- ➤ More rigid lesson plan structure
- ➤ Instructor handles behavior redirection
- ➤ Solicit teaching feedback at set intervals

New Applications

- ➤ Increase breaks Feel feedback
- > Reiterate new online class expectations
- ➤ Encourage active constructive criticism of instruction via surveys

Modifying Group Work Online

Old Methods

- ➤ Partners
- ➤ Circle Discussions
- ➤ Workstations
- > At board work

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New Applications

- ➤ LMS Discussion Boards
- Shared Google docs
- Breakout rooms
- > Pass the baton Zoom share screen

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Q2 Methods for maintaining collaborative learning online include?

- A. assigning students to groups
- B. break out rooms
- C. editable work documents
- D. All of the above

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Maintaining Engagement

Old Methods

- ➤ Demonstrations & practical lab
- ➤ Practical Images & Videos
- > Student Projects

New Applications

- ➤ Kahoot!
- ➤ Wheel of Names
- ➤ Flippity
- ➤ EdPuzzle
- > Jeopardy
- ➤ Brainscape
- Voicethread

Maintaining Engagement cont.

Case Studies

> Students discuss third person scenarios related to lesson material

Storytelling

➤ Instructor gives examples of experiences that exemplify lesson material





ENDINGS	CLASSES	DISEASES	B/g	FORMS	MISC
<u>\$100</u>	<u>\$100</u>	<u>\$100</u>	<u>\$100</u>	<u>\$100</u>	<u>\$100</u>
<u>\$200</u>	<u>\$200</u>	<u>\$200</u>	<u>\$200</u>	<u>\$200</u>	<u>\$200</u>
<u>\$300</u>	<u>\$300</u>	<u>\$300</u>	\$300	<u>\$300</u>	<u>\$300</u>
<u>\$400</u>	<u>\$400</u>	<u>\$400</u>	<u>\$400</u>	<u>\$400</u>	<u>\$400</u>
<u>\$500</u>	<u>\$500</u>	<u>\$500</u>	<u>\$500</u>	<u>\$500</u>	\$500

Q3 Instructors can tell that students are engaged when they:

A. relate their own experience to the material.

B.ace the test.

C.show up to class.

D.quietly listen to the lecture.



Pandemic Has Changed Us

Socially

Technologically

- > Smaller in person classes
- ➤ More touchfree options
- > Internet connections becoming the new normal
- > Online ordering, banking, recreational activities

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Technological Future of Teaching

- ➤ How much of a handson profession can be online?
- ➤ Will giving students options help with their career-life balance?
- > How realistic can we create simulations?
- > Will using hybrid or 100% online increase enrollments?
- ➤ Is it even possible to maintain educational standards?

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Questions?

Image Sources

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