SP Telecommunication at the Time of COVID-19

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Presenters

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Disclaimer

The presenters have no potential conflicts of interest or financial disclosure associated with this presentation.

Agenda

- Different telecommunication formats
- Pros and cons of 4 telecommunication modalities
- Applications of telecommunication (including SP training, debriefing) and lessons learned
- Approaching formative and summative assessments with telehealth
- Challenges in telecommunication practices
- Q+A / Where and how to begin?



Social Distancing

Data Capture

- Recordings (Yes/No)
 - Interview or Feedback
- Assessment
- Training
 - SPs
 - Faculty



Telecommunication Formats

- Phone
- BlueJeans
- Google Meet
- Facetime
- Google Form 🗖
- Qualtrics
- ExamSoft

- Adobe Connect
- WebEx
- Zoom

SIMULATIONIQ

Where to Start with Remote Sessions?



Meeting Recording and Assessment

Recording

Meeting recording may be stored in:

- Cloud
- Local computer
 - Recording can be transferred to more permanent location- BOX, Dropbox or Enterprise Simulation System

Assessment

- Google Form •
- Qualtrics
- ExamSoft

-Set up questions -Send SP survey assessment links

Low Tech - High Concept



Inter-professional & inter-institutional telepharmacy counselling:

- Polypharmacy cases involving BScN students interviewing SP (in-person) and seeking advice from PharmD students via telephone
- First run in January 2020



The Original "Tele" Medicine

Is face to face communication a requirement of my session?

Is it required to meet our learning objectives?

Potential Pros & Cons:

- PRO: Less "tech-y" modality, cost
- CON: Less ability to control, fidelity



The Quick-And-Dirty

- SP encounters in a third year
 PharmD advanced patient self-care course.
- Summative activity involving peer, instructor, and SP feedback.
- Moved virtual encounters in less than a week due to COVID-19



The Quick-And-Dirty

- Used what was "easily" accessible and available Adobe Connect. Speed (in moving to a virtual environment) was most important factor.
- Students had a scheduled time to login to a "room". SP, instructor, and TA/tech support were in the room for the full session.
- Used tech dry-runs the day before for students and SPs

Adobe Connect

- Pros:
 - Easily share and access files in the room.
 - Recoding function.
- Cons:
 - High technological requirements.
 - Students had to be set as "presenters".
- Lesson learned: use the right tool for the right job



Multi-format: WebEx, LCMS+, Bline



**We pay for and utilize these companies, but are not being compensated and are in no way advocating for their use.

Thinking Outside of the Box with a Small Staff







Rachel Older Simulation/Clinical Skills Center Manager

Sophie Watters Simulation/Standardized Patient Program Coordinator

Jocelyn Steffke Standardized Patient Training Coordinator

M3 Psychiatry Telemedicine Sessions

- 1. Remote session delivered utilizing WebEx, Bline, and LCMS+:
 - a. 3rd year medical students in their psychiatry rotation
 - b. Running since July 2019
 - c. Our SPs report to our simulation center



M3 Psychiatry Telemedicine Sessions

- Session directions for students, logistics, and WebEx training link (see handout)
- Door Note, Bline, and LCMS+
- Formative assessment



M3 Psychiatry Telemedicine Sessions



- Pros: Flexibility, security, and telehealth experience



Cons: Technical issues, using 3 systems: WebEx, Bline, and LCMS+ to achieve our objectives



- Cost: Difficult to determine

- 1st year medical student physical exam
- WebEx with its recording feature.
- No SPs



- Facilitators to give student directions (in lieu of a door note) and share screen images
 - i. Cardiac Exam
 - ii. Pulmonary Exam
 - iii. ENT
 - iv. Facilitators to flag students in need of remediaito



- This was originally a 3 station OSCE
 - i. In the fall, the students will complete a didactic portion





 Pros: Technique correction, security, and student engagement



Cons: rescheduling physical demonstration



Cost: saving on SPs

ZOOM



ang Call

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College of Osteopathic Medicine

Source: New York Times, 4/3/2020

ICC Team Effort



SP Educators : Lisa Culen, MS & Jamie Colvell, MPH



Mindy Roher, M.Ed Director of Operations



Lisa Culen, MS





Jamie Colvell, MPH, CHES Standardized Patient Educator

Laurie S. Callen, MA Medical Educator



Timothy Devine, CMTE Simulation Technology Specialist



Director, Simulation

Education

Simulation Control

Room Operator

Doreen McKenna Simulation Control Room Operator



Gil Darrell, BA Simulation Facilitator



Phyllis Tafuri, MA Administrative Assistant

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Utilizing Zoom for Distant Learning

- February 2016 Telemedicine OSCE
 - 6 participants [2 cases]
 - Physical exam results delivered in email
 - History, Communication, English Language skills, SOAP assessed
 - Summative exam scored Pass/Fail
 - SimIQ used for SP assessments, pre/post encounter exercises

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Utilizing Zoom for **SociALLY** Distant Learning

3/9/2020 Simulated patient programs were shut down and we have been working to deliver 100% virtual alternatives with for:

- <u>OMS1, OMS2 OSCEs</u> online case],
- OMS3 OSCE / 2PE Board Prep
- <u>PA Program</u> cases]
- Doctor Patient Continuum
- Doctor Patient Relationship
- <u>BLS skills</u> party provider),

629 participants [2 Zoom + 1

84 participants [6 cases w/feedback], 50 participants [1-2

How to start?



- Accept the "new normal" how you did things in the lab may simply not work in a virtual environment
- <u>Re-examine your objectives</u> and look for creative ways to <u>complement</u> simulation
- Find out what telecommunication services are institution- supported.
- Plan carefully and practice. Lesson learned : <u>Run betas at all stages</u>, every discovery is meaningful.

Where to Start with Zoom

- Create a profile at <u>zoom.us</u> FREE for 40 minute basic call
- Play with basic functions make calls, join calls
- Look at settings for options and ideas
- Access tutorials to learn more

• Practice, practice, practice, and more practice

Scheduling in Zoom

Profile

Meetings

Webinars

Recordings



My Meetings > Schedule a Meeting

Schedule a Meeting

Торіс	Webinar Planning Meeting-4-6-2020						
Description (Optional)	Finalize presentation details						
When	04/06/2020 8:30 ~ AM ~						
Duration	1 ~ hr 0 ~ min						
Time Zone	(GMT-4:00) Eastern Time (US and Canada)						
	Recurring meeting						
Registration	Required						
Meeting ID	 Generate Automatically Personal Meeting ID 483-747-0260 						
Meeting Password	✓ Require meeting password 437082						

Scheduling in Zoom

Meeting Password	Require meeting password 437082
Video	Host • on off Participant • on off
Audio	 Telephone Computer Audio Both Dial from United States of America Edit
Meeting Options	 Enable join before host Mute participants upon entry is Enable waiting room Only authenticated users can join Breakout Room pre-assign Record the meeting automatically on the local computer
Alternative Hosts	Example: mary@company.com, peter@school.edu

Sending Zoom Link to Participants

Click onto the click on the date of the meeting

Enter password



Copy Meeting Invitation

Meeting Invitation

Margaret Kim Liu is inviting you to a scheduled Zoom meeting.

Topic: Webinar Planning Meeting-4-6-2020 Time: Apr 6, 2020 08:30 AM Eastern Time (US and Canada)

Join Zoom Meeting https://umich-health.zoom.us/j/565652722? pwd=SkU0TTV3cGhRTFZLL1V6NEVMWFI3UT09

Meeting ID: 565 652 722 Password: 437082

One tap mobile +13126266799,,565652722# US (Chicago) +16465588656,,565652722# US (New York)



Preparing the SP for Virtual Encounters w/Zoom

1. Identified SPs comfort level/experience with technology through Google Form survey (handout) - sent to 44 SPs

NB: self-reporting was not entirely accurate!

2020 Technology Survey

Please fill out the following survey based on your experience with mobile technology and video conferencing.

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Preparing the SP for Virtual Encounters w/Zoom

2. Supported with technology / loaner laptops from campus



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Preparing the SP for Virtual Encounters w/Zoom

3. Provided **paid basic training** to 37 SPs

- Resources already available:
 - Institutional videos created for Zoom
 - Zoom's own tutorials
 - Telehealth etiquette videos (YouTube)
 - AMAZING Academic Technologies Group (ATG) DE TECHNOLOGY

Preparing the SP for Virtual Encounters w/ Zoom

- Live "work-through" meetings (in groups of 6 & 1-on-1)
- Online learning module with video examples of full encounters start to finish





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Zoom Skills - a new SP core competency in a pandemic

Proficiency Level	Types of Programs				
 Basic Zoom Skills for the SP join a call with video and microphone on toggle video/microphone on/off schedule a meeting use chat function to text 	 Programs requiring history, narrative physical, feedback Basic A/V problems with learner could be troubleshooted with text function 				
 Moderate Zoom Skills for the SP manage multiple windows screen share documents manage waiting room use chat function to file share ** 	Programs requiring live, dynamic delivery of materials to learner (e.g. patient information, PE results - files, images, audio/video - post encounter exercise, etc), observers				
 Advanced Zoom Skills for the SP move in and out of breakout rooms use chat function to file share** conduct a poll 	Could be employed as Virtual Encounter Leader (VEL) backup facilitator, Zoom skills trainer, observer				

Preparing the SP for Virtual Encounters w/ Zoom

- 4. Assessed proficiency \rightarrow added skills \rightarrow trained \rightarrow reassessed
- asked SPs to complete simple digital tasks
 - e.g. log into NYIT Zoom account,
 - change screen name to SP name,
 - share their Personal ID

After 2.5 weeks: 20 moderate proficiency, 7 advanced proficiency



Overcoming Data Capturing Challenges

- <u>Recording</u> NYIT ICC decision not to record <u>any</u> recordings of SP encounters from home
- <u>Checklists</u> SimIQ for history, physical, PARS, English Language Proficiency checklists, SOAPs, pre/post encounter exercises (Paper checklists?)
- <u>Polls</u> Available for surveys (single- or multiple-choice only)





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Zoom Pros

- intuitive- easy to set up and use
- "waiting room" option available
- SP can show patient information prior to encounter start
- easy background options
- allows breakout rooms for multiple exams
- small or large group meetings are simple







Zoom Cons

Growing pains?

- they just removed the file transfer option (as of Friday!!)

Zoom says it will fix security holes that video hackers have exploited

BY KHRISTOPHER J. BROOKS UPDATED ON: APRIL 2, 2020 / 3:10 PM / MONEYWATCH



- can't record breakout rooms
- some confusion of joining a meeting / scheduling a meeting
- settings some available in app, others on website



Timer function hard to read, can't be reset



Can't schedule concurrent meetings from one account -

(Workaround : Breakout rooms)



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Zoom Costs

- cost of product
- cost to train
- resources to cover any addition data capture necessary
- HIPAA feature, but currently not recommended

Basic	Pro		Business		Enterprise		
Personal Meeting	Great for Small Teams		Small & Med Businesses		Large Enterprise-Ready		
Free	\$14.99 /mo/host	6	\$19.99 /mo/host	0	\$19.99 /mo/host	0	
Sign up, It's Free	Buy Now		* Starting at 10 hosts for \$199.90/mo		* Starting at 100 hosts for \$1,999/mo		
Host up to 100 participants Unlimited 1 to 1 meetings 40 mins limit on group meetings Unlimited number of meetings Ticket Support Video Conferencing Features Web Conferencing Features	All Basic features + Includes 100 participants Need more participants? Meeting duration limit is 24 hrs User management Admin feature controls Reporting	9 9 9	All Pro features + Includes 300 participants Need more participants? Dedicated phone support Admin dashboard Vanity URL Option for on-premise	0 0 0	All Business features + Enterprise includes 500 participants Enterprise Plus includes 1,000 participants Unlimited Cloud Storage Dedicated Customer Success Manager		
+ Group Collaboration Features	Assign scheduler		deployment		Bundle discounts on Webinars	•	
+ Security	1GB of MP4 or M4A cloud recording	0	Single sign-on	0	and Zoom Rooms		
nal	REST API Skype for Business (Lync) interoperability + Optional Add-on Plans	0	Company branding Custom emails LTI integration Cloud Recording Transcripts	0 0 0			



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Telecommunication Challenges

- Internet bandwidth, capacity daytime vs. nighttime
- Deciding the setting (remote clinical encounter vs telehealth)
- Preparing SPs for technological proficiency
- Reviewing CS skills ratings e.g. eye contact (how much leeway to give?)
- Authenticity of the encounters
- Reliability of assessments Summative exams , Physical exams

Suggestions for Physical Exams

During COVID-19:

- Inability to reliably assess **psychomotor skills**.
- Demonstrating on themselves or others is not safe nor recommended.

Other Applications:

• Telehealth/Remote Clinical Encounters could include an in-person rater on whom exams could be done/assessed

So what about right now?

Suggestions for Physical Exams - 2

Rate the participant's demonstration of knowledge of the exam. Do they...

• Know what test:

("Now I would do a(n)

Know what test <u>and how:</u> ("Now I would do a(n) ______by____.")

Know what test and how and why:

Remote Summative Assessment for a Clinical Skills Exam



("In order to check x, I would do a(n) _____

by

Suggestions for Physical Exams - 3

Delivery of findings to participant could be :

- Written findings card (sent in email or in-meeting file)
- Image, audio, or video file of findings to synthesize, report
- Verbal findings from SP
 - "narrative style" from patient voice (e.g. "You would see my eyes are swollen and puffy and there is discharge from my right eye.")
 - "report" style, with jargon
 - Cons: can break patient/participant roles & create awkward remainder of encounter

"The Future" is Now

- Future Applications
- Delivering clerkship specific formative experiences
- Transition to Residency programs
- Workshops

Best Practices for Telecommunication

Full transparency-

- Video recording consent from all participants
- Inform participants of any observers
- Confidentiality consent form
- Meeting expectations

<u>Ensure tech competency</u> of the participants- practices a few times before the event.

<u>Pre-test the feasibility</u> of the telecommunication among participants–

- Internet connection Hardwares (computers, iPads, phone, earphone etc.)
- Audio and video

<u>Allow plenty time</u> for practice and planning logistic.

Best Practices for Telecommunication

Video Meeting Best Practices: Do's and Don'ts to ensure meeting success.

 Send the best practice to participants a few days before meeting

Institutional compliance

Beware of the security- how data is stored and transferred

- DUO- two factor authentication
- Use VPN (Virtual Platform Network)
 for internet traffic connection
- Secure cloud base storage space-BOX, Local Enterprise system
- Meeting settings randomize join meeting ID and password

Questions?



Thank you for attending this webinar!