



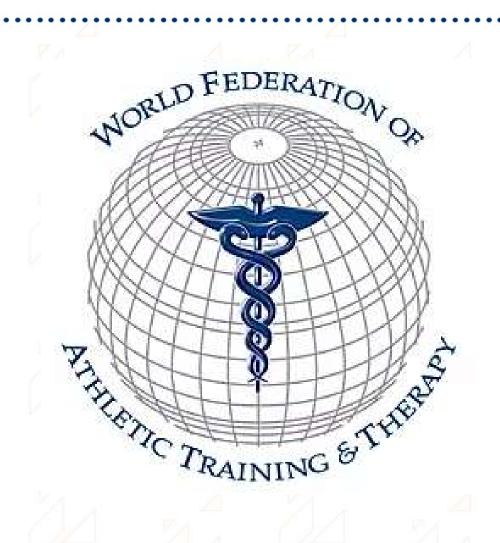
CURRY SCHOOL of EDUCATION
and HUMAN DEVELOPMENT

Development of a Collaborative, Simulation-Based Virtual Athletic Training Clinic





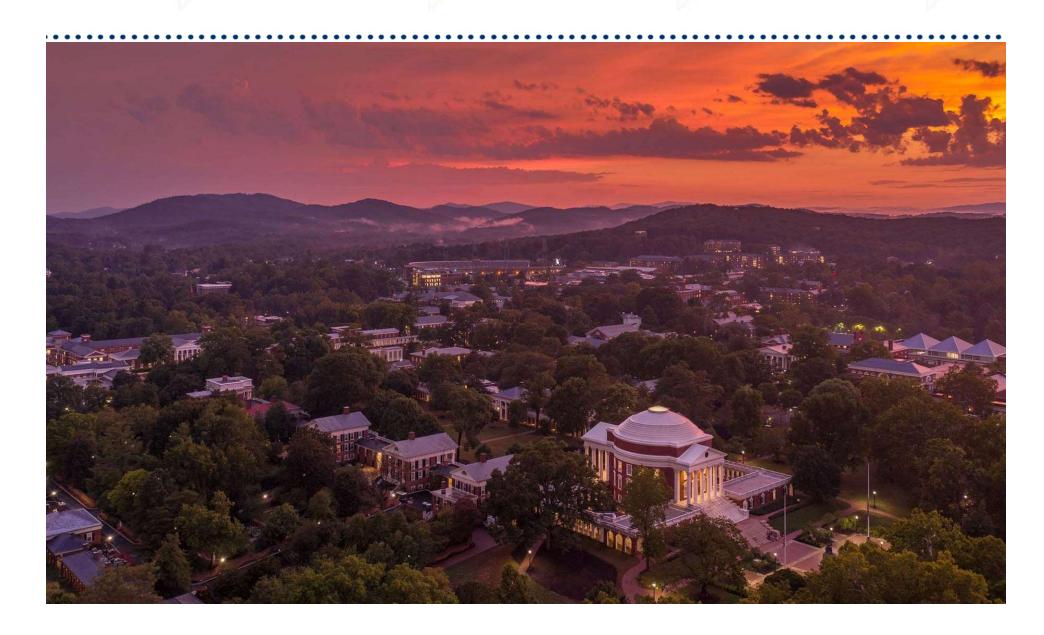
Thank You





- ✓ Describe the development of a collaborative virtual athletic training clinic that incorporated telemedicine and simulation
- Highlight successes and potential pitfalls to avoid
- ✓ Discuss possible ways in which this idea can be applied at other education institutions.

Poll Question #1







Collaborators



Meredith Decker-Hamm,
Cindy Trowbridge, Adam
Annaccone, Laura Kunkel,
Jamie Frye, Maegan
Daniels, Michael Higgins,
Lindsey Eberman, Julie
Cavallario, Jessica
Martinez, Tom Campbell







Mentor Thank You's

Lindsey Biggs Sydney Baumgartner John Meskimen Dan Waterman Liz Cruze Nicole Lee **Precious Barnes Justin Young** Jenn Benedict **Brea Stanton Brittany James** Megan Kinser Micaela Lozano

Olivia Jackson Dan Dobrowolski **Shannon Wright** Kylie Fendrick Dyllan Hofmann Karen Holmes **Jodee Roberts** Ben Colletti Eliza Barter Cassie Parise Nick Farrar Melanie Collier Erin Brooks Terius Grandison

Jeremy Eith Lizzie Leitch Keith Thomson **Shannon Snell** Jordyn Rine Jordan Hart **Justin Shaw** Vanessa Ramirez Ally Gardiner Francesca Harvey Lauryn Hunter Hillary Masdon **Emily McMurtrie** Jon McMurtrie Siaura Saville



Problem

How was I going to find a way to provide equitable and safe clinical experiences in the midst of a pandemic?

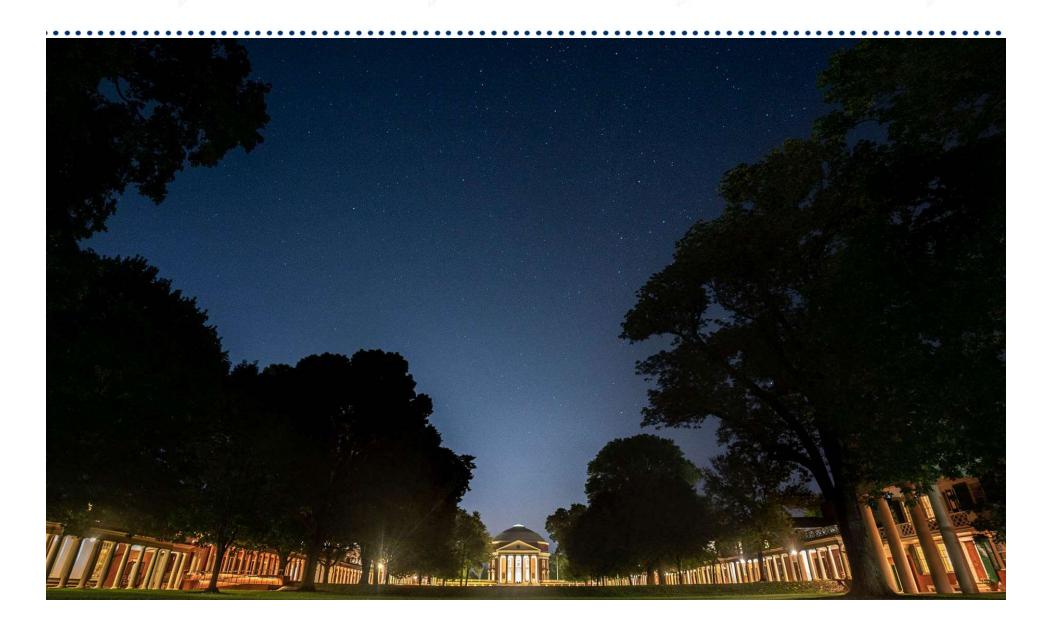


"Necessity if the mother of all invention"





Poll Question #2



Group	Members			
	Lorch, MacAdam, Oh, Santos, Scales, Troiano			

Date	Topic	Script & Model	Clinician	Judge	Audience/ Document Keepers	Case Present
2/11	Shoulder	Troiano	Santos	Lorch	Oh, MacAdam, Scales	2/25
2/18		Scales	MacAdam	Troiano	Oh, Lorch, Santos	
3/3	Elbow,	Oh	Lorch	Scales	MacAdam, Troiano, Santos	3/24
3/17	Wrist/Hand	Santos	Troiano	Oh	Lorch, MacAdam, Scales	
3/31	Acute Illness	MacAdam	Scales	Santos	Lorch, Oh, Troiano	4/14
4/7	Chronic Illness	Lorch	Oh	MacAdam	Santos, Scales, Troiano	

CRT	Clinician	Patient	Audience
Interview	Uses pt centered approach to elicit chief complaint (cc) & pt concerns	Answers Qs	Listens
Time out	Explains reflections, IDs KFs, documents on blackboard, discusses audience suggestions	Listens	Suggests further Qs
Round-off interview	Asks pt relevant questions suggested by audience from T/O	Answers questions	Listens
Time out	Documents diffs on blackboard with clinical sieve, plans the PE	Listens	Participates in clinical sieve

Borleffs JC et al.. "Clinical reasoning theater": a new approach to clinical reasoning education. Acad Med. 2003;78(3):322-325

Idea

Can we combine resources to create a virtual clinic that uses simulation to create meaningful clinical education opportunities?



Hashing Out Details

Needed to agree upon goals, timeline, logistics, activities, resources, technology

- ✓ Weekly meetings
- ✓ Used a living document to create a clinical education plan
- ✓ Provided feedback and edited document and templates in an iterative process



Overview of Virtual Clinic

6-week period in Summer 2020

Purpose: To create a collaborative virtual clinical education clinic that incorporates telemedicine and simulation to enhance students clinical reasoning and decision making skills.







Simulation-Based Education



Standardized Patients



UNIVERSITY VIRGINIA

High and low fidelity simulators



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"An educational strategy in which a particular set of conditions are created or replicated to resemble authentic situations that are possible in real life."

Gaba DM. The future vision of simulation in health care. *BMJ Quality and Safety*. 2004; 13:i2-i10.



Why Use Simulation?

- Used in a variety of healthcare professions
- Can be used for a variety of educational and assessment purposes
- Offers consistent student exposures to important cases (e.g. case exposure that is inconsistent or skills that are important)



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REALITY

SIMULATION



Telehealth

"Communication and information technologies [used] to provide or support long-distance clinical health care, patient and professional health-related education, public health, and health administration."



https://yourstory.com/2020/04/coronavirus-mit-startup-daytoday-virtual-healthcare-system

Nat'l Advisory Committee on Rural Health & Human Srvs., Telehealth in Rural America: Policy Brief, March 2015, at 2, https://www.hrsa.gov/advisorycommittees/rural/publications/telehealthmarch2015.pdf





Telehealth Related Research

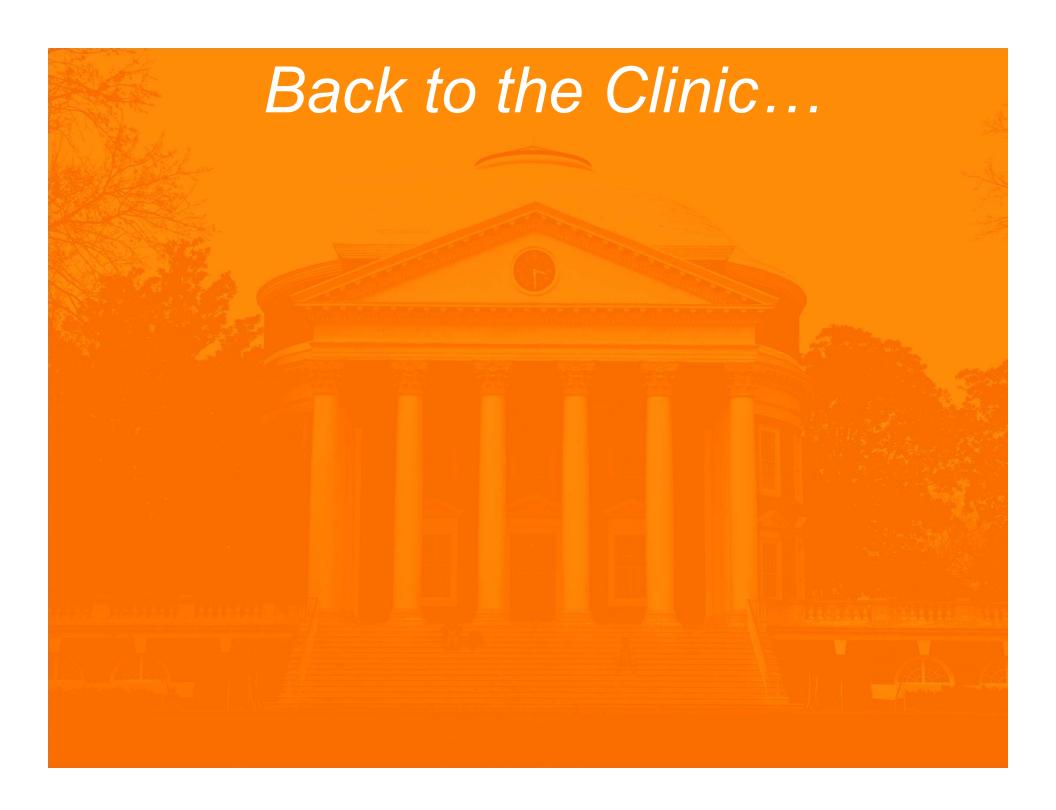




https://www.infinityrehab.com/tag/telerehabilitation

https://shrs.uq.edu.au/

- Cottrell, MA et al. Real-time telerehabilitation for the treatment of musculoskeletal conditions is effective and comparable to standard practice: A systematic review and meta-analysis. Clin Rehabil. 2017;31: 625-638.
- Verduzco-Gutierrez, M et al. How to conduct an outpatient telemedicine rehabilitation or prehabilitation visit. *Journal of Injury, Function and Rehabilitation*. 2020; 12: 714-720.
- Russell T et al. The diagnostic accuracy of telerehabilitation for nonarticular lower-limb musculoskeletal disorders. Telemed J E Health. 2010;16(5):585-594.



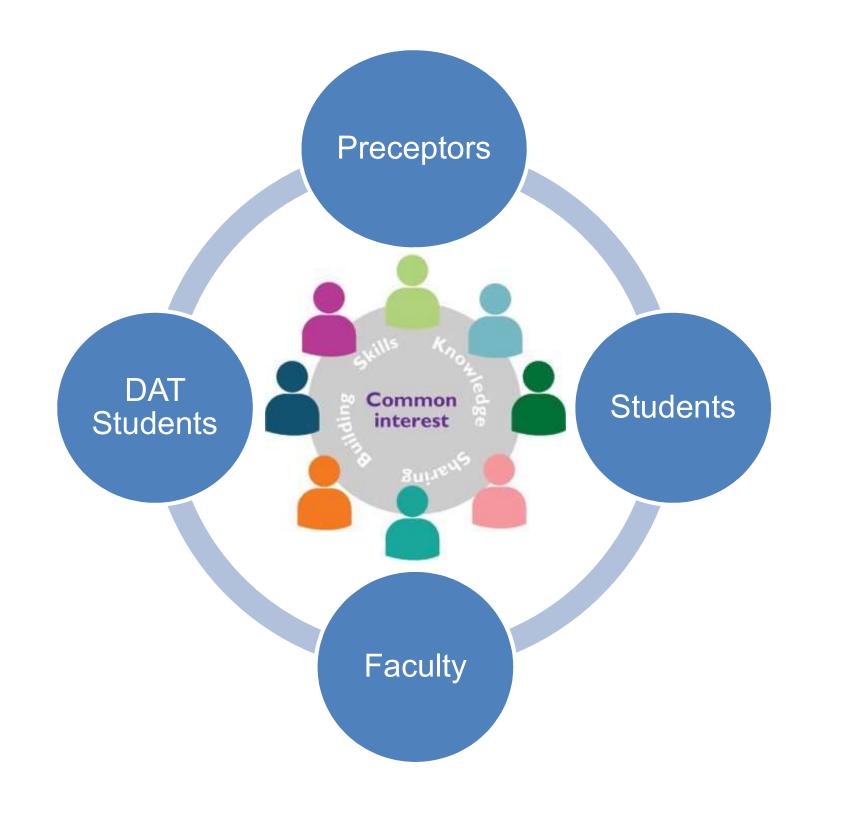
Virtual AT Clinic Goals

- 1. Collaborate and communicate effectively with student peers, athletic training professionals, and other stakeholders.
- 2. Explore and devise clinical reasoning habits to develop sound, appropriate, and timely clinical practice patterns.
- 3. Conduct an examination, formulate a diagnosis, and design a care plan for a patient with a complex case of the lower extremity using evidence-informed and patient-centered principles.
- 4. Use best practices in telemedicine to facilitate patient care
- 5. Self-reflect and self-assess upon learning experiences to identify how to adapt personal self-development goals.
- 6. Identify methods to apply concepts and skills learned within the virtual clinic to integrate evidence-informed practice behaviors into future clinical practice



Question to Ponder

What are 3-5 "KSAs & behaviors" that you believe that you would want to build a virtual clinical education experience around?



Faculty Mentor Role

- Lead weekly debriefs (use <u>diamond</u> debrief) after reviewing videos
- Develop the mini-encounters videos that provide instruction on the selected topic
- Provide feedback on SP case development
- Get feedback about any weekly logistics problems and helps to create solutions



Jaye P, Thomas L, Reedy G. 'The diamond': a structure for simulation debrief. The Clinical Teacher. 2015; 12;171-175

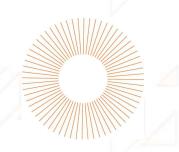


Preceptor Mentor Role

- Create video on setting specific details
- Assess the authenticity of the student-created cases during week
 2 of Virtual Clinic
- Participate in weekly miniencounters and provided informal feedback on performance
- Participate in weekly diamond debriefs (weeks 3-5) to provide perspective of a clinician







DAT Mentor Role

- Provide infographic on telemedicine best practices
- Lead discussions with students about progressive and hypothesis-driven, progressive SP development; increasing fidelity and authenticity of encounters (reliability, moulage, etc...)
- Lead discussion on telemedicine encounters and performing physical exam procedures
- Lead discussion on telemedicine encounters and demonstration/ providing feedback on therapeutic exercises; and making objective and patient-centered RTP decisions.







Student Role

- Work collaboratively with peers
- Initiate and complete miniencounters
- Design and act out a <u>hypothesis-driven</u> case scripts for simulation.
- Manage several simulated patients at three time points & creation of a care plan
- Document patient cases
- Self-assess and reflect (milestones, areas for growth, EBP integration)



https://www.bardavon.com/coronavirus/





Question to Ponder

Who are some strategic partners (on-campus and off) that you can partner with to create a virtual experience?

Group Composition

10 faculty members = 10 learning groups
20 preceptors = 2 per group

22 DAT students = 2 per group (2 groups of 3)

33 students = 3 per learning groups (2 groups of 4)

#	Faculty Member	Clinical Preceptor	DAT Student	AT Student	Setting
1	1	2	2	1 UVA (hip/thigh) 1 UTA (knee) 1 ODU (lower leg/ankle/foot)	Emerging Clinic HS
2	Etc				





Logistics

The Virtual AT Clinic occurred in multiple steps:

- 1. For the first 2 weeks of the Virtual Clinic, students created a progressive, hypothesis-driven simulation case, participated in mentored sessions about the telehealth and the case, and completed several mini encounters with preceptors.
- 2. For the last 3 weeks of the Virtual Clinic, students acted as SPs in formal encounters where students engaged in a progressive SP encounter and completed mini-encounters
 - 1. Initial eval, pt education and referral;
 - 2. F/U eval, intervention plan and HEP
 - 3. F/u eval, RTP/discharge





Logistics

Week 1	Meet with group	Work on SP case	Mini encounter	Debrief and reflect	
Week 2	Meet with group	Work on SP case	Mini encounter	Debrief and reflect	
Week 3	Meet with group	Act in SP	Serve as clinician	Mini encounter	Debrief and reflect
Week 4	Meet with group	Act in SP	Serve as clinician	Mini encounter	Debrief and reflect
Week 5	Meet with group	Act in SP	Serve as clinician	Mini encounter	Debrief and reflect

	Week 2 – Student Schedule				
6/15	On own time:				
	•Students review feedback and work on the progressive case.				
	•Prep for mini encounter (delivering bad news)				
	•Reach out to schedule mini-encounter for Wednesday				
6/16	Together:				
	 Meet with DAT & faculty mentor to discuss case development 				
On own time:					
	•Continue developing progressive SP				
6/17	Together with preceptor:				
	 Complete mini-encounter with preceptor/faculty. 				
	On own time:				
	 Post mini-encounter into documentation system (20 min) 				
6/18	On own time:				
	•Submit case for review by mentors				
6/19	Together:				
	 Meet with learning group and faculty mentor for debrief 				
	On own time:				
	•Schedule telemedicine visits				
	•Student edits case based on feedback from mentors				
Sat/	On own time:				
Sun	•Students submits final case on google doc				
	 Students submits weekly reflection 				

	Week 2 – Mentor Schedule
6/16	 Faculty and DAT: Students meet with DAT mentors and faculty member Provide information on increasing SP fidelity, authenticity and moulage. Use breakout rooms to discuss details about the case and possibilities Reviews activities due prior to the next meeting including mini-encounter pre-brief
6/17	<u>Preceptor</u> : Complete mini-encounter #2 with student. Use 10 minutes to ask Q and A of preceptor about case development (authenticity check #2).
6/18	Faculty (on own time): Review the student performance on the miniencounter. Use the hyperlinks in the learning document for the group
6/19	 Faculty: Meet with learning group and faculty mentor at designated time and complete check-in and Q and A about the week's activities Complete diamond debrief about the mini encounter Q and A Have the students shift gears to think about the activities that are due before next meeting
Sat/ Sun	DAT and faculty : Students post final case for DAT mentor//faculty to review and post any final comments

Mini-Encounters

Focus: Communication Skills

Learn: Videos (5 videos, each with a 20-minute lesson)

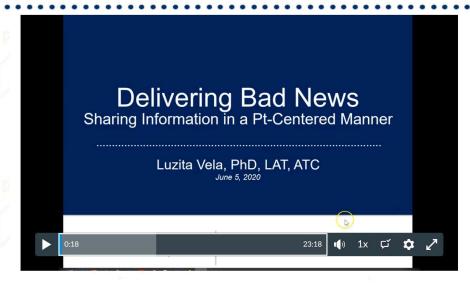
Do: Manage a patient in a 10-15 minute interaction and get

immediate feedback

- Mental health check-in
- 2. Delivering bad news
- 3. Presenting a case to a physician/HCP
- 4. Communication about HEP compliance & insurance concerns
- 5. Injury report to coach & communicating with a parent/guardian



Example - Mini-Encounter





Mini-Encounter #2 Scenario: You have a collegiate gymnast in their last year of eligibility. The pt was injured during a dismount and sustained a fracture. The injury was stabilized and transported. The x-rays revealed a bimalleolar fracture that required ORIF. A conversation with the team physician and sports medicine team reveals that based on the complexity of the fracture, length of recovery, and the timing in the year that the patient would be unable to compete in their final year. You will be delivering this news to the patient.

Case Development

Progressive, hypothesis driven, SP cases

- Hypothesis-driven because students had to identify how the case would present differently during physical exam based on 2 different hypotheses
- Progressive because it was developed at 3 times points: initial evaluation, f/u evaluation, and RTP/discharge

Yudkowsky, R. et al. A hypothesis-driven physical examination learning and assessment procedure for medical students: initial validity evidence. *Med Educ*. 2009:43; 729-740.





Progressive SP Cases

AT Student	Setting
Hip/Thigh Case	Emerging
Knee Case	Clinic
Lower leg/Ankle/Foot Case	HS

✓ Asked the students to develop "complex" cases where the patient had an underlying condition, mental health concern, participation restriction outside of sport, etc...

Clinical Sites

To establish the parameters for the fictitious setting in which the case is taking place

- Settings: Secondary School (Traditional Athlete); Campus Rehabilitation Clinic (Recreational Athlete); Fire/Rescue AT Clinic (Tactical Athlete)
 - Size of facility/clinic, ~# of athletes/patients, # of ATs, typical work week description, access and frequency of visits to other HCP (team physician, school nurse, PTs, mental health professionals, etc...), SES of school/area, workers comp/insurance considerations, standing orders of ATs/supervising physician



Virtual AT Clinic 2020

Thanks to Lindsey Eberman!

Progressive SP Case Information

Case Name:			
Case Author:			
Date:			
Setting:			
Patient Name:			
Pt Demographics:			
Presenting Complaint:			
Differential Diagnosis: (provide two)			
Task(s) for examinee:			
Exam Room Needs:			
Dress			
Presenting Situation		<u>'</u>	
Psychosocial Profile			
Opening Statement			
Past Medical Hx			
Social Hx			
Family Medical Hx			
Medications			
Allergies			
History of Present Illness	DX 1	DX 2	
Physical Exam Findings	DX 1	DX 2	
Special Instructions:			

Provides context

Focus on whole-person care using ICF model

Demonstrate how pt. can present based on dx

Virtual AT Clinic 2020

Visit #1 - Initial History and Physical Examination

Case Name:	Josh						
Case Author:	Luzita Vela						
Date:	5/23/20						
Setting:	DII College/University Track and Field AT Facility (athletes are away for winter holidays and will come back to school to train for indoor season in ~10 days)						
Patient Name:	Joshua Green						
Pt Demographics:	21 y/o, male						
Presenting Complaint:	R foot pain						
Differential Diagnosis: (provide two)	Tarsal tunnel syndrome, plantar fasciitis						
Task(s) for examinee:	History, Physical Exam, Patient Education, Reflection						
Exam Room Needs:	Telemedicine visit (access to internet and device); no specialty equipment for exam						
Dress	T-shirt and shorts (need to have unobstructed access to your foot and lower leg)						
	i i						
Presenting Situation	You are a senior, track athlete that will be competing your last indoor season. You're currently away for the winter holiday and have been training at home. You have R foot pain that has been limiting your ability to train at home and its persistence is concerning to you. Your main concern is that you aren't feeling explosive or powerful and this is concerning since you're a sprinter and jumper. You have also noticed it when wearing nicer shoes (for church and when waiting tables).						
Psychosocial Profile	Senior, track athlete. You are feeling nervous and a little frustrated because you want to have a good senior, track season and are fearing that this is going to be a set-back.						
	At home for the holidays, which are stressful since your parent's divorce and having to juggle spending time with family members.						
	Have been diagnosed with generalized anxiety disorder; take Lexapro (~3 years) and have a treating physician within your hometown.						

Virtual AT Clinic	2020
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Opening Statement	I started to feel some pain on the inside of my foot about two weeks ago. I thought that it would go away but it's gotten worse. Now I feel it when I run and do conditioning and it is getting worse. I feel like I can't push off my toes really well and my power is decreased especially with jumping.						
Past Medical Hx	Have been diagnosed with gener (~3 years) and have a treating ph Previous metatarsal pain on R for	ralized anxiety disorder; take Lexapro nysician within your hometown. ot (2 years prior)					
Social <u>Hx</u>	You are living at home for the holidays (one state away). You live with your mom (parents are divorced); you are single; you have started working at a local restaurant of family friend (which you do during trips back home)						
Family Medical Hx	Father has high blood pressure Paternal grandfather died of heart attack @ 55 y/o Mother, healthy						
Medications	Lexapro, multivitamin						
Allergies	None						
History of Present Illness	Tarsal Tunnel Syndrome	Plantar Fasciitis					
	Q - Mechanism of Injury Don't remember one Q - Description of Symptoms Present symptoms – p! with jumping activity (particularly with landing on toes and having to absorb force) and pushing off Location of symptoms – p! behind medial malleolus into foot (point to navicular tubercle) Changes in symptoms – gradually gotten worse over time Length of symptoms – 2 weeks old Q - Pain Characteristics P – provocation – pushing off the toes, jumping, standing for long periods of time (while waiting tables) Q – quality – sharp with jumping, dull with activity and	Q - Mechanism of Injury Don't remember one Q - Description of Symptoms Present symptoms – p! with jumping activity (particularly with landing on toes and having to absorb force) and pushing off Location of symptoms – p! on the plantar aspect of foot Changes in symptoms – gradually gotten worse over time Length of symptoms – 2 weeks old Q - Pain Characteristics P – provocation – pushing off the toes, jumping, standing for long periods of time (while waiting tables); first steps out of bed or walking (it seems to get better after it warms up but gets worse if I am one my feet too long) after sitting for a long period of time					

Care Plan ICF Flow Sheet

Directions: Please complete the intervention planning flowsheet (page 1) after the initial evaluation. Use page

2 for the initial note and page 3 for the session note.

Category	Supporting Information	
Patient demographics		
Patient's differential		
diagnosis/diagnoses		
Tissue(s) involved		
Stage of healing		
Tissue Irritability (low,		
moderate or high)		

 Participation Restrictions:	Activity Limitations:	Impairments:	

Patients, values, preferences and goals Additional information about the personal and environmental factors that are helpful to understand. Interventions: (generally describe the interventions that will address the priorities identified)

Created a care plan at 3 time points:

- 1. Initial Evaluation
- 2. Follow-up Evaluation
- 3. RTP/Discharge

Question to Ponder

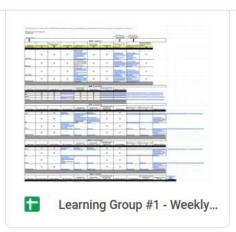
Think of a few meaningful activities that you would want to develop within a virtual clinical that address your goals and capitalize on strategic partners?

Technical Logistics

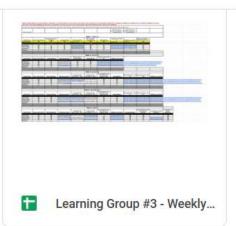
Different LMS and online meeting platforms

My Drive > Virtual AT Clinic - Summer 2020 > Learning Groups - ...











Google docs and sheets

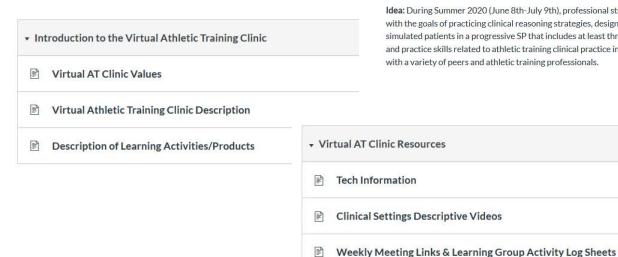
			Week 2: June 15-21							
Student Name	lame Honor Code Promise Tuesday Meet		Mini-Encounter #2	Mini-Encounter Documentation	Friday Meeting	Progressive SP Draft #2	Reflective Journal #2			
Josh	✓	✓	https://youtu.be/LD1Cd7pge	✓	~	https://docs.google.com/doc	https://docs.google.com/do			
Mia	~	\checkmark	https://virginia.zoom.us/rec/s	\checkmark	\checkmark	https://docs.google.com/doc	https://docs.google.com/do			
Briana	\checkmark	\checkmark	Blawr003. thats the passwor	\checkmark	\checkmark	https://docs.google.com/do	https://docs.google.com/do			
Kimberlie	\checkmark	\checkmark	https://virginia.zoom.us/rec/s	\checkmark	\checkmark	https://docs.google.com/doc	https://docs.google.com/do			

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How to Co	ntact Preceptors													
А	В	С	D	Е		-		G		Н	1			J
Week 3 Fo	od for Thought													
		or LE - please be sure Here are some useful	A STATE OF THE ALTERNATION OF THE PARTY OF T	ot-centerd pricin	ples and	neasure	all lev	els of the	disabler	nent proce	ess includig	activity	/ limitatio	ns (functi
		otoolkit.com/ rtsmedres.org/patient-r opaedicscore.com/	eported-outcon	ne-measures/										
Look at the	Care Plan template to	know what you will ne	ed to do this w	/eek										
Complete P	art 2 of the progressive	SP that you develope	ed; this can be	based on how y	our clinic	an provi	ded ca	re and in	tervention	ns				
Review your	goals for the progress	ive SP experience, wh	ich were identi	fied in reflection	#1									
Week 4 Pro	ep													
日本の表現を表現しています。	i encounter (communi o schedule mini encou	cation about compliand Inter with preceptor	ce with HEP ar	nd insurance co	ncems) b	/ watchi	ng sho	rt lesson	video (1	5-20 minut	e refresher	and res	ources)	on Canvas
If you need	help with language of p	orimary versus seconda	ary insurance,	see this form: h	ttps://arka	ansasraz	zorbac	ks.com/p	df/sports	-medicine	/forms/insu	rance-fo	om-12-5-	16.pdf
		SP encounter #2 duri the call and provide												
Progress vo	nur SP case that you o	leveloned												
<														

Technical Logistics

Different LMS and online meeting platforms



Welcome to the Summer 2020 Virtual Athletic Training Clinic



We wanted to create a collaborative virtual clinical education clinic that incorporates telemedicine and simulation to enhance students self-reflection, clinical reasoning, decision-making, and collaboration.

Programs: Indiana State University, James Madison University, Old Dominion University, University of Texas Arlington, and University of Virginia

Idea: During Summer 2020 (June 8th-July 9th), professional students will engage in a Virtual AT Clinic opportunity where they will manage patient cases with the goals of practicing clinical reasoning strategies, designing and acting out several hypothesis-driven case scripts for simulation, managing several simulated patients in a progressive SP that includes at least three time points for each patient, and interacting with mentors in mini-encounters to discuss and practice skills related to athletic training clinical practice including telemedicine, communication skills, mental health, etc... Students will also interact with a variety of peers and athletic training professionals.

Publically accessible LMS link

Week 1: June 8-14

Week 1 Activities and Videos

Telemedicine Articles

Assessments

- 1. Reflective Journal (weekly)
- Cooperative Learning Assessment (@ end of clinic)
- 3. Athletic Training Confidence Scale (pre and post clinic)
 - Armstrong KJ, Jarriel AJ. Standardized patient encounters improved athletic training students' confidence in clinical evaluations. *Athl Train Educ J.* 2015; 10(2): 113-121
- 4. Student Assessment of DAT Mentors (post clinic)





Outcomes Data

Athletic Training Confidence Scale

17 item scale measuring confidence in AT skills (1 = strongly disagree, 5 = strongly agree)

Table 2. Pre-Encounter and Postencounter Confidence Rating Items^a

Confidence Rating Item

I am confident in my abilities to identify what questions to ask while obtaining a patient history.

I am confident in my abilities to generate follow-up questions to a patient's response.

I am confident knowing when I have obtained enough information from a patient history.

I am confident selecting appropriate palpations.

Armstrong KJ, Jarriel AJ. Standardized patient encounters improved athletic training students' confidence in clinical evaluations. *Athl Train Educ J.* 2015; 10(2): 113-121



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Outcomes Data

Athletic Training Confidence Scale

17 item scale measuring confidence in AT skills (1 = strongly disagree, 5 = strongly agree)

 Wilcoxon Signed-Rank (Z = 4.72, p<.001) indicated a significant increase in confidence scores from pre-clinic (Mdn=3.71) to post-clinic (Mdn=4.24)





Outcomes Data - Cooperative Learning

"I think this experience showed me how important the team approach is with health care. It showed me that not only is it acceptable to get other opinions, but encouraged to do so."

"I hope that once I am certified I am surrounded by healthcare professionals that support me like this small group and push me to be better."

"We were able to do this with the other students while having the opportunity to talk with the mentors in the group about our decision making. This really helped me think through questions and increased my confidence a good amount going into the encounters."



Outcomes Data - Decision Making

"Since COVID-19 has turned everything upside down, I felt my skills as a clinician took a turn because I wasn't getting any hands on in person experience and was worried I would lose what skill I had to complete an evaluation of an athlete. However, during both SP evaluations I found that the steps started to just come naturally and it didn't feel so stressed about missing anything. It was a major boost of confidence when I was able to develop a differential diagnosis for both cases that was exactly what the athlete was experiencing. I also felt my interactions with the simulated patient flowed very well and I didn't feel awkward or inexperienced in delivering education and instruction."



Question to Ponder

Think of a few meaningful assessments that you can use to measure the value of a virtual clinic?

Reflecting Back...Take Home Points

- Goals always bring back to big picture
- Technology guides and workflow procedures
- Flexibility of students and mentors
- Expectations of time be clear about time commitment to all involved
- Role expectations be clear about roles
- Communication clear and consistent





Poll Question #3

