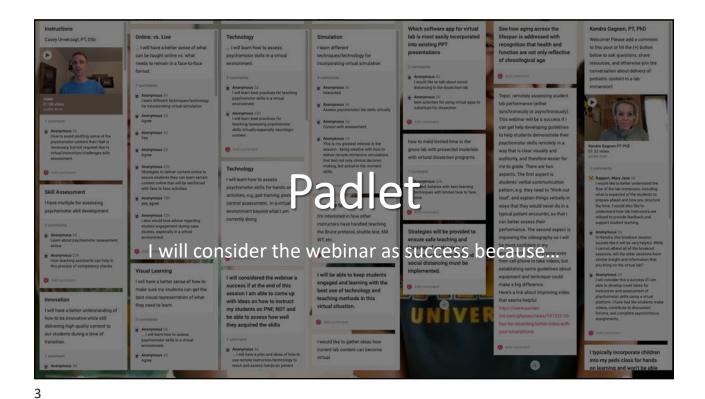
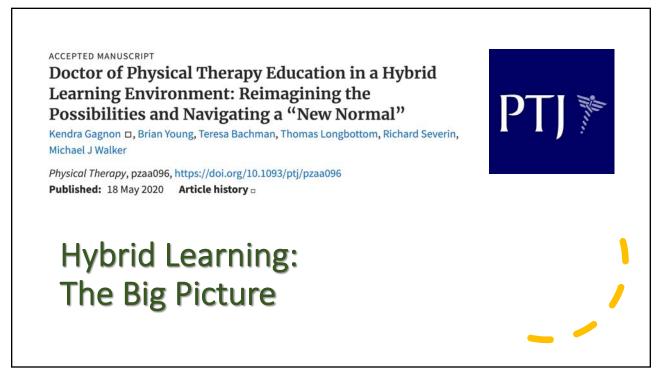


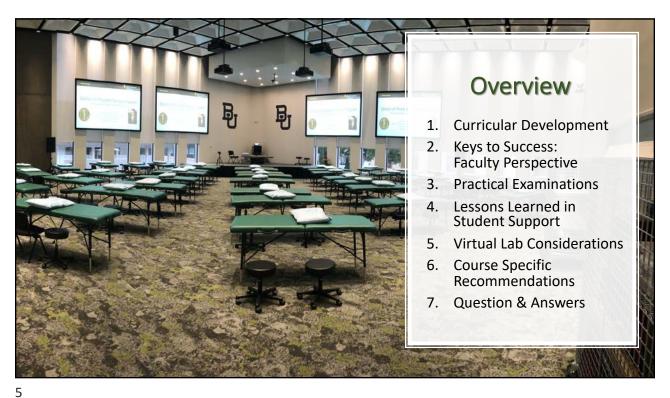
Τ

Let's Set the Stage

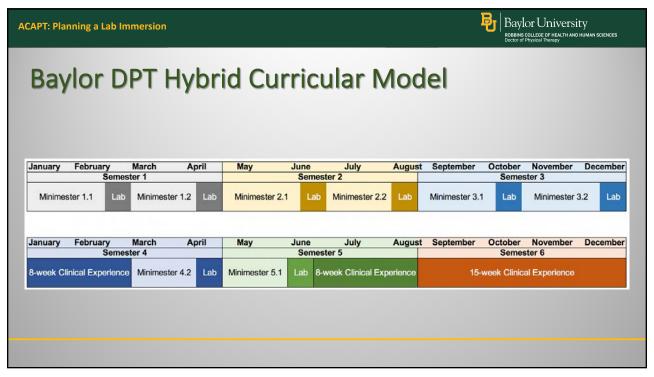
- 1. Hybrid learning with immersive lab experiences is one of many educational models.
- 2. All program designs have the potential to thrive after COVID.
- 3. We are here to help everyone learn from our challenges and successes.

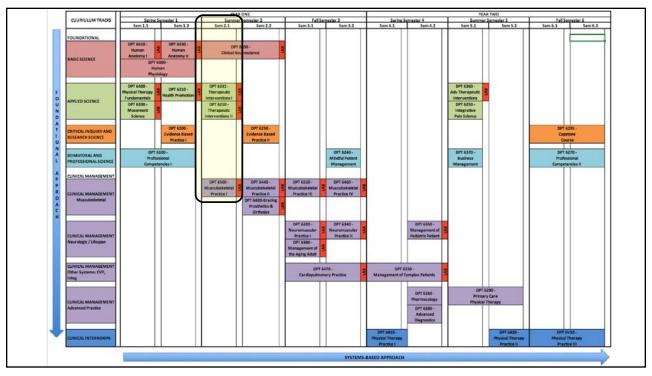












COVID-19 Landscape – Transitioning from here....

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00 - 9:00		Neuroscience	Neuroscience		Neuroscience
9:00 - 10:00	Physical Agents	Neuroscience	PA Lab	PA Lab	Lab
10:00 - 11:00	Physical Agents	Lab	PA Lab	PA Lab	Lab
11:00 - 12:00	Ther Interv				
12:00 - 1:00					
1:00 - 2:00	Ther Interv Lab				
2:00 - 3:00	MSK 1				
3:00 - 4:00	MSK 1 Lab	MSK 1 Lab	MSK 1 Lab	MSK 1 Lab	MSK 1
4:00 - 5:00	MSK 1 Lab	MSK 1 Lab	MSK 1 Lab	MSK 1 Lab	OFF

9

...to sustained online coursework...

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00 - 9:00		Neuroscience	Neuroscience	ĺ	Neuroscience
9:00 - 10:00	Physical Agents	Neuroscience			
10:00 - 11:00	Physical Agents				
11:00 - 12:00	Ther Interv	Ther Interv	Ther Interv	Ther Interv	Ther Interv
12:00 - 1:00					
1:00 - 2:00					
2:00 - 3:00	MSK 1	MSK 1	MSK 1	MSK 1	MSK 1
3:00 - 4:00					MSK 1
400 500					OFF

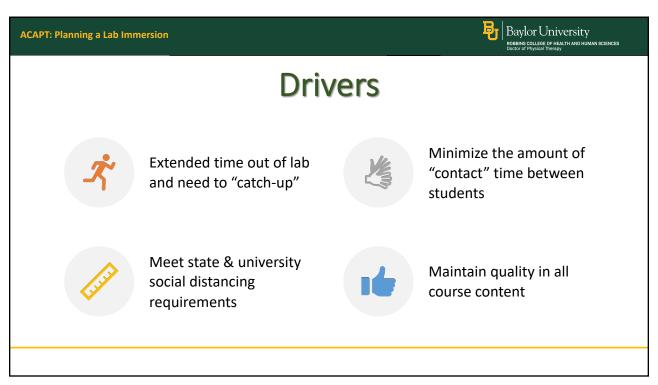
all lectures online, or...

...mix of synchronous and asynchronous content

	Week Day	MS	SK 1	Physica	l Agents	Therapeu	tic Interv	Neuros	science
	M						Sync 2 pm		
П	T	Ctt	Sync 2pm	2		4		4	
	W	6 contact		2 contact hours./wk	Sync 12 pm	4 contact hours/wk	Sync 2pm	4 contact hours/wk	
	Th		Sync 2 pm						Sync 12pm
	F								

...culminating in successful immersive, blocked labs! Monday Tuesday Wednesday Thursday Friday Weekend Monday Tuesday Wednesday Thursday Friday Weekend 8:00 - 9:00 PA Written and Practical Exam Ther Interv 9:00 - 10:00 MSK 1 Lab Practical Exam Written and MSK 1 Lab MSK 1 Lab MSK 1 Lab 10:00 - 11:00 Interv Lab Lab Practical Exam 11:00 - 12:00 OFF OFF 1:00 - 2:00 MSK 1 MSK 1 Lab MSK 1 Lab 2:00 - 3:00 Final Exam MSK 1 Lab MSK 1 Lab MSK 1 Lab OFF 3:00 - 4:00 nterv Lab Lab 4:00 - 5:00

11



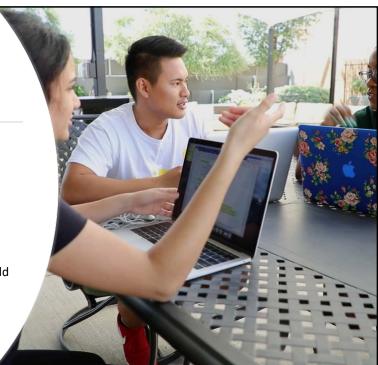
Preparing Curriculum for Lab Immersion

Curricular Efficiencies: What themes carry forward?

- · Clinical Reasoning process
- Standard documentation format
- · Basic skills used across all courses

Expect Student Integration

 Progressively expose content and build depth across successive courses.



13

Preparing Curriculum for Lab Immersion

Explore and move all available content to "classroom"

- Practice interviews via Facetime and submit written patient interview/S: notes
- Watch case videos and answer clinical reasoning questions
- Practice techniques from prior courses with application to current content, such as goniometry, exercise, neuro exam

Use classroom to introduce content and techniques

• Lab is for hands-on practice and integration



Reimagining Lab Content

	Week	Online Course Interactive Content	Online Lab Components, (either interactive sync or student driven asych)	Content that must be completed in immersive lab (list)	
MSK I	2	Case Review and CR Framework Patient Interview and write up	Practice Neuro Exam; ROM/MMT instruction w/Bongo upload	Full hands-on exam instruction/practice	
	3	Objective Exam and CR Framework	for demo; interactive sessions for stabilization, centralization, traction, Lx mobility exercises, hip therex, Hip OA mgt, Hip FIA.	all thrust/non-thrust MT skills from checklist; short sessions for integration exercise or manually-assisted correction	
	5	п	Student equipment needs: plinth or mat, TB from PT Kit, Neuro	integrate skills into pt management	
	6	2 Minute Drill	exam tools, large goniometer, fluid goniometer, stretch strap.	scenario, skills practical.	
Clin Neuro	2	Case application somatosensory testing	Session based around elements of neuro exam relevant to where we are in the course - somatosensory, motor, cranial nerve testing, maybe ASIA testing (would give opportunity to do	Practice neuro screen.	
	3	Case application motor testing	strength testing and compare to standard manual muscle	Hands on neurological examination fro	
	5	Case application spinal cord Case application on cranial nerves/brainstem	testing). This would be virtual small group work. Each Group member researches and practices a testing procedure. Then they come together and each member demonstrate and teaches their component to the rest of the group. Finish with each member doing all the skills at once, non-graded peer assessment (with form).	start to finish- sensory, motor, coordination, proprioception, postura control, cognition, functional skill/task	

15



Musculoskeletal Example

Time	Activity	Lead Faculty
8:00 - 8:15	Introduction, Expectations, Safety	Dr. Young
8:30 – 10:00	Lumbo Pelvic Hip (LPH) Physical Examination- Standing	Dr. Young
10:00 - 10:30	LPH Physical Examination- Sitting	Dr. Young
10:30 -12:00	LPH Physical Examination- Supine	Dr. Young
12:00 - 1:30	Lunch	
1:30 - 2:30	LPH Physical Examination- Supine	Dr. Young
2:30 - 4:50	LPH Physical Examination - Prone	Dr. Young
4:50 – 5:25	Manual Therapy- Supine LumboPelvic Manipulation	Dr. Young
5:25 - 5:30	Wrap-up	Dr. Young

Time	Activity	Lead Faculty
8:00 – 9:30	Round Robin Practice of Previous Material	Dr. Young
8:30 – 10:45 10:45-1200	Manual Therapy (Large Group) A. Vertebral P-A (Central / Unilateral) Mobilization B. Sidelying Lumbar Neutral Gap Mobilization, Muscle Energy, & Thrust Manipulation C. Lumbar Closing Mobilization, Muscle Energy, & Thrust Manipulation D. Thoraco-Lumbar Junction Manipulation Rotation (See below)	Dr. Young
12:00 - 1:30	Lunch	
1:30 - 5:30	Rotations (75 min each – 1 in am / 3 in pm; 5 min break between rotations) A. Stabilization Programs B. Centralization Programs C. Traction Programs D. Lumbar Mobility Exercises	Faculty

17





Keys to Success: Faculty Perspective

- 1. Identify nice to know vs. need to know
- 2. Vary the delivery
- 3. Round-robin
- 4. Military schedule
- 5. Call in the reinforcements
- 6. Faculty floaters vs. engagers
- 7. Interleave practice
- 8. Keep up the energy
- 9. Taking care of faculty

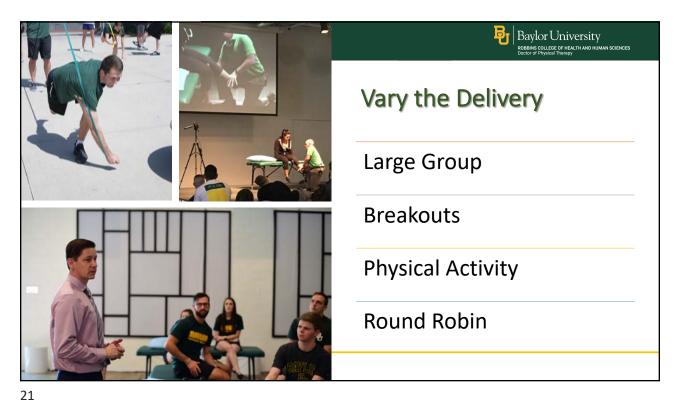


19

"Nice to Know" or "Need to Know"

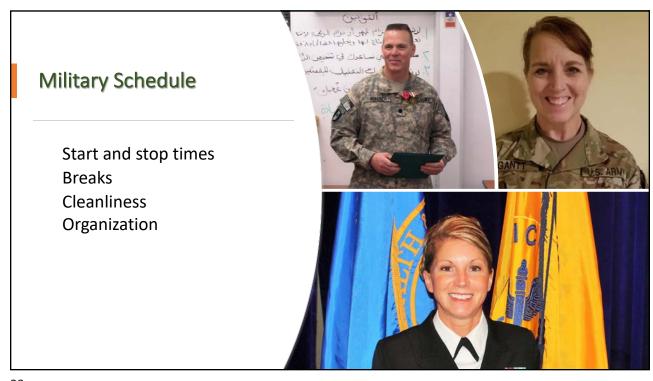
Curricular bloat Experts do the basics well





Round Robin Rotations

Say goodbye to: "I encourage you to find a new partner!"







Faculty Floaters vs. Faculty Engagers



25



Blow Up the Silos: Interleave Practice

- Requires intentional coordination amongst faculty
- Strategic implementation
- Address student expectations

ACAPT: Planning a Lab Immersion



Keep up the Energy



A quality sound system is one of your best investments



Revitalizers

27



Taking Care of Faculty

Set expectations early Give ample prep time Lunch mandatory

Sleep and hydration Protect from barrage

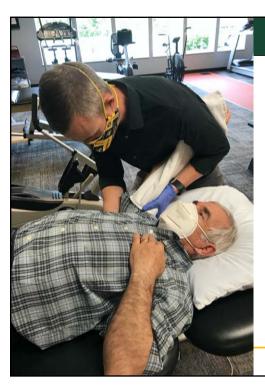
Social Distancing at a Lab Immersion?

Largely dependent on state and University guidelines

Maximum number of people
Travel restrictions
Mandatory quarantines
PPE



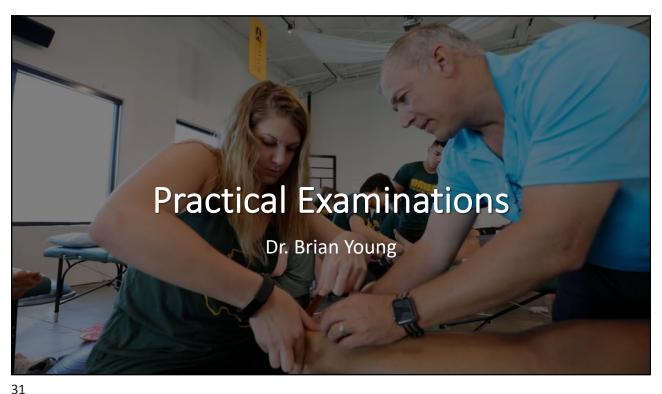
29





A Note on Social Distancing

- Every Option On the Table
 - Multiple lab sections
 - Extended lab hours
 - Larger venue
 - Regional labs
- Precautions
 - · Only work with your roommate
 - · Regular temperature checks
 - Masks & PPE



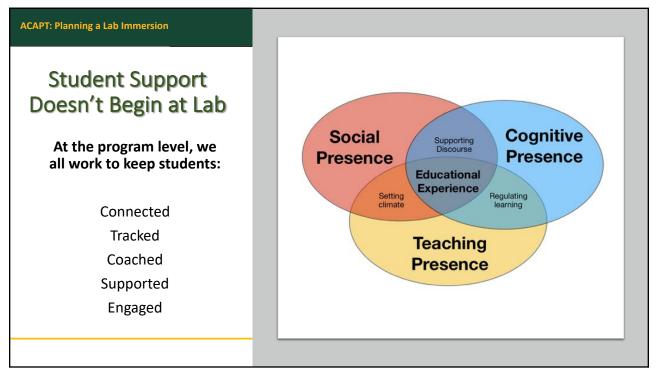
Practical Exam Considerations

Select a subset of skills to assess the spectrum from your skills checklist

- 2 of each: examination, manual therapy, exercise
- Ask questions during, i.e. contraindications, precautions, definition of positive results, progression of technique based on patient response
- Includes elements of clinical reasoning, professionalism, safety

Student "pairs" can often both be completed within 30 min, including time for rubric completion and brief feedback.







Leveraging in-person, face-to-face time

- Classroom as clinic Social events
- Space/facilities
- Faculty:student ratios
- Faculty availability
- Scheduling/breaks
- · Open forums
- Student absences
- Remediation





Baylor University **ACAPT: Planning a Lab Immersion** Through the Eyes of a Skeptic: Stages of Change Contemplation **Determination:** I'll consider it because you **Precontemplation**: If you are going to force me, I Not even on my radar are telling me I have to but guess I'd better do a good job. it'll never work." Recurrence: Maintenance: Action: This doesn't look half bad! This felt like my first year Hey, in putting this together, I I'm quite pleased with how it of teaching, am I am realize I could have been came together (owe Brian & determined to do better teaching some of this all along. Mike an apology). next year.



The Question Isn't "What Can we Move Online?"

39

Baylor University **ACAPT: Planning a Lab Immersion** Large group instruction Principles of manual therapy • Soft tissue mobilizations **Therapeutic** · Neural dynamics **Interventions I: Breakout rotations** • Lower quarter & upper quarter 2019 Lab Stretching & ROM · Foundations of strengthening Balance (LQ), manual resisted TE (UQ) Plyometrics · "Core stabilization" Functional integration · Warm-ups & emerging technology

Therapeutic Interventions I: Virtual Lab 2020

Delivery	Time	Торіс	Moderator	Equipment	Breakout Instructor		
Moderator with focus groups	10:00-10:50	UQ ROM & Stretching	Unverzagt	Household items: list provided	10 faculty		
Moderator with focus groups	11:00-11:50	LQ ROM & Stretching	Unverzagt	Household items: list provided	10 faculty		
Lunch							
Moderator with focus groups	1:00-1:50	Foundations of UQ Strengthening	Unverzagt	Household items: list provided	10 faculty		
Moderator with focus groups	2:00-2:50	Foundations of LQ Strengthening	Unverzagt	Household items: list provide	10 faculty		
Breakouts	3:15-3:45	Case application and discussion	Unverzagt/Adams	No equipment needed	10 faculty		

41

Therapeutic Interventions I: Lab Immersion 2020

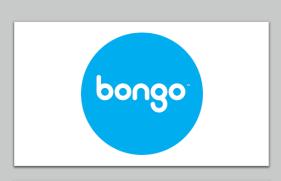
- Review of virtual lab
- Intro to manual therapy
- Plyometrics
- Warm-ups, speed & agility
- Technology in S&C
- Soft tissue-mobilization
- Neurodynamics
- Core training



ACAPT: Planning a Lab Immersion

Virtual Assessments

- Practical vs. skill check
- Layered case
 - Patient response: normal or abnormal
 - "Show me" what you've been doing
 - Demonstration of correct technique
 - How could you progress this individual? Regress?
 - · Sets and reps





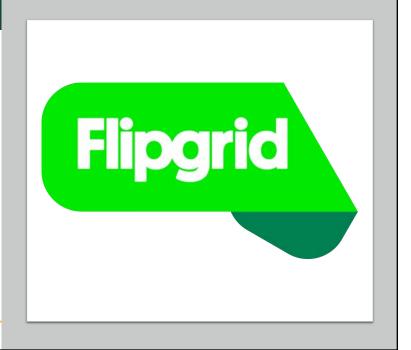


43

ACAPT: Planning a Lab Immersion

Flipgrid: Skill Check

- Therapeutic exercise technique
- · Instruct a family member
 - Stage I-III UQ and LQ exercise
 - · Soft tissue mobilization



ACAPT: Planning a Lab Immersion

Virtual Lab: Take Home Message

- 1. Where are you in the stages of change?
- 2. Students can still receive individual attention
- 3. Start by making your list
 - a. Non-negotiables
 - b. "Preferables"
 - c. Why didn't I do this long ago?



45



