Learning in the Time of Covid

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15 Min and Beyond Session Objectives

• Discuss topic/title “Medical Student Virtual Elective: How to keep it interesting”
• Address prompt “Include the medical students both in-person and distanced”
• Highlight what worked and what didn’t
AAMC March 2020

- AAMC: students’ clinical rotations should be suspended
- USMLE suspended & ERAS delayed
- Sharply curtailed medical student educational options
- Necessity is the mother of invention
- Radiology educators everywhere encountered once in a lifetime need to reexamine pedagogy revisit curricula
AMSER Survey September 2020

• @ 6 month mark survey Members of the Alliance of Medical Student Educators in Radiology

• Coexistent student survey via direct emails sent to PCs

• 96% institutions cx medical student courses, 92% resumed virtual only

• 64% faculty enjoyed online teaching. 82% preferred on-site

• 62% students online excellent alternative. 69% students preferred on-site

Smith et al 2021
Resources abound . . . collate cull curate
Fab Five literature and firsthand experience
What we created
Fab

Quality, Quantity, Quick

• NYU: Virtual Read-Out (VRO) Cohort 47 remote students higher active participation in reviewing radiology exams and lower boredom

• HMS: Virtual radiology clerkship Cohort 111 favored small group homeroom activities. Enthusiastic teachers key in any activity

• JHU: March 17 all on-site cx, March 23 diagnostic radiology elective Cohort 116 (4-15 typical). Multitude resources, laud MS Teams

Alpert 2020, Durfee 2020, Gomez 2020
What we’ll continue
Fab 2  Peds 2 at 2

- Hybrid curriculum students on-site 2 morning sessions/week
- Virtual days assigned ed modules weekly theme: Pediatric Chest, Abdomen, MSK, Neuro/IR/NM
- 30 min virtual conferences conducted at 2 pm. Q&A from self-study modules and then 2 unknown cases each per medical student
- Cases in pptx. WebEx magnification and annotation features. Summary slide per case
- “Very effective modules and didactics. I loved the 2@2, it helped solidify module content”

UNC Lynn Fordham MD personal communication
Fab 3 Neurorad Look Ahead

- Neurorad virtual case review 2x per week
- Assigned unknowns (total 7 TF each contained 7-8 cases). TF topic-centric: emergency head CT, brain tumors, brain infections, congenital brain malformations, emergent H&N imaging
- Cases direct PACS access. Students preview unknown cases. During session the student expected to describe imaging finding, DDx. Guided arrival at correct diagnosis
- 55-60 cases per block overall
- “Major strength of this course are the teaching file sessions when I learned the most during the rotation. They were greatly appreciated”

UNC Ben Huang MD personal communication  Huang et al 2020
Fab 4 Virtual Journal Club

-JC established technique for critical appraisal of research, communication and teaching skills

- Multilevel learners -> adapted immediately mid Mar Breast Imaging

- Use of standardized template dovetails with pedagogy

- Addresses medical student core competencies and ERAS entries for Presentations and Online Publications

Kelly 2010, Gottlieb 2018, Campbell 2018, Rodriguez 2019
Fab Virtual Journal Club

• Use of standardized template dovetails with pedagogy

• Journal Club Outline
  I. Learning Objectives
  II. Case
  III. Background
  IV. Article Overview
  V. Clinical Questions
  VI. Key Points

Kelly 2010, Gottlieb 2018, Campbell 2018, Rodriguez 2019
Greetings
Roentgen Ray!
UNC and Weill Cornell MS4 VJC
4.15.2021

Videos on!
Chat, ARS, Q&A
Lighten Engage
Fab 5 Breast Imaging Boot Camp

- Breast imaging immersive experience for on-site students
- Integrated pedagogical approach medical school core competencies
- Clinician educators’ use of today’s student-favored teaching tools

“I LOVED this course. I wish I could have taken it for many more months to come if possible”

Jordan et al 2021
We learned to

- Collaborate  sheryl_jordan@med.unc.edu
- Centralize  www.msrads.web.unc.edu
- Collate  Cull  Curate
- Create  Medical Students | Department of Radiology
- Communicate
- Continuous QI
References

• Smith E, et al. Radiology Medical Student Education 2020: Surveys of the Alliance of Medical Student Educators in Radiology and Medical Students. Acad Radiol. https://doi.org/10.1016/j.acra.2021.01.003 Epub Jan 27, 2021


Thank you!

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