Using Digital Training Tools to Address Resident Training During a Pandemic

July 25, 2021
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AAPM Annual Meeting 2021
Education Council Symposium

Disclosures
• None

MSK Pandemic Experience

<table>
<thead>
<tr>
<th>Date</th>
<th>Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4/20</td>
<td>All business travel suspended</td>
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<tr>
<td>3/5/20</td>
<td>Planning for remote work underway</td>
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<tr>
<td>3/10/20</td>
<td>Faculty/Staff not directly involved in clinical frontline delivery</td>
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<tr>
<td></td>
<td>begin remote working</td>
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<tr>
<td></td>
<td>All residents set to work remotely from home</td>
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<tr>
<td>3/13/20</td>
<td>Faculty/staff not directly involved in clinical frontline delivery</td>
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<tr>
<td></td>
<td>begin remote working</td>
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<tr>
<td>3/14/20</td>
<td>Faculty/staff not directly involved in clinical frontline delivery</td>
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<tr>
<td></td>
<td>begin remote working</td>
</tr>
<tr>
<td>3/16/20</td>
<td>Tier 1 adaptation - minimal on-site with faculty/staff in alternating</td>
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<td></td>
<td>teams (A/B)</td>
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<tr>
<td>3/17/20</td>
<td>Tier 2 adaptation - skeleton crew on-site (1 physicist, 1 dosimetrist)</td>
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<td></td>
<td>Begin remote setups</td>
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<td></td>
<td>OSLD measurements transferred to therapists instead of physicists</td>
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<td>Machine QA only time residents were allowed to be on-site</td>
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<tr>
<td>3/20/20</td>
<td>Governor closes all non-essential business</td>
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<tr>
<td>6/17/20</td>
<td>GME office approved resident education as “essential” for on-site work</td>
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<tr>
<td>8/1/20</td>
<td>Resumption of “elective” surgery</td>
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<tr>
<td>8/3/20</td>
<td>Resident on brachytherapy rotation able to be on-site for clinical</td>
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<tr>
<td></td>
<td>activities</td>
</tr>
<tr>
<td>12/31/20</td>
<td>Residents working mixed remote/on-site</td>
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</tbody>
</table>

Society Resources
Medical and Scientific Journals, Practice Guidelines, Reports
Video and eLearning content
Other Digital Tools/Resources

- EduCase.com
  - Category: Education
- Contouring training
  - https://vimeo.com/218638947
- https://linax.ca/
- https://www.vertual.co.uk/products/vert-‐physics/

MS Team Environment

- Zoom
- Webex Meetings

Teams

- MS Team Environment

My watchlist

- MS Team Environment
**MS Team Environment**

- Video based training
- eLearning tools
  - Integrate
  - Video
  - Quizzing
  - Active learning

**Topical Lectures and In-service Training**

**MSK eLearning Training**
eLearning Software

- Four components
  - eLearning authoring software
  - Learning Management System (LMS)
  - Video development tools
    - Camera/phone
    - Video editing software
  - Audio tools
    - Microphone
    - Sound engineering software

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eLearning Authoring Software

- Elucidat: https://www.elucidat.com/
- Articulate Storyline: https://articulate.com/perpetual/storyline-3
- Articulate Rise: https://articulate.com/yjda/ris3
- Storyboard: https://www.storyboardthat.com/
- Gomo: https://www.gomolearning.com/
- Lectora: https://www.elearningbrothers.com/create-learning/lector
- Adapt: https://www.adaptlearning.org/
- DominKnow: https://www.dominknow.com/
- Easygenerator: https://www.easygenerator.com/en/
- iSpring: https://www.ripsolutions.com/
- Evolve: https://evolvelearning.com/
- Brainshark: https://www.elearninglearning.com/brainshark/

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eLearning LMS Software

- MyLearning Saba: https://www.cornerstoneondemand.com/learning/

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eLearning Course Options

- PowerPoint Conversion
- 360 virtual reality video interaction
- Software Simulations
- Videos
  - Demos
  - Lectures
Video Training and Simulation

Future Training Tools

- Integrated resident teaching and training
  - Adaptive problem based scenarios
  - High risk and pressure training without patient or equipment risk

Questions?
Panel Discussion...

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