Radiology Resident Education for a New Generation: Texas Radiological Society Webcast Lecture Series
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No Disclosures
The Background

- Radiology Residencies provide daily (primarily didactic) lectures for residents.
- Traditionally, the lectures are predominantly given by the staff at each institution.
- Lectures should cover the breadth of subspecialties and their unique individual topics.
- Lectures usually take place in a central lecture hall with residents walking or commuting (if offsite) to attend.
- The ACR and state radiological societies (i.e. Texas Radiological Society – TRS) have little, if any, visible impact on daily education of radiology residents outside of AIRP and Appropriateness Criteria.
The Problems

- ~ 20 lectures/month can put a strain on academic staff (especially at smaller institutions)
- Residents frequently have to commute from offsite to view and listen to the lecture.
- These lectures are commonly a one-time event => No on-demand resource for residents to review lecture
- Residents commonly have limited education regarding business, economics, and legislative issues in radiology and medicine.
- The ACR and state radiological societies can commonly succumb to being stereotyped by residents as another entity that will eventually be asking for their money.
  - There is limited direct interaction with residents regarding what the ACR and state radiological societies accomplish for them and radiology in general
The 21st Century Solutions

- The TRS Resident-Fellow Section established a statewide webcasted noon lecture series
  - Decreased burden on faculty at their home institution
  - Each faculty lecturer has areas of expertise that they are uniquely qualified to talk about.
  - Besides didactics, topics included business and economics, where TRS/ACR Radiologists have a far-reaching knowledge.

- Additionally, UTHSC-San Antonio started live webcasting and recording ALL noon lectures
  - Residents can remotely view and listen to lectures in real-time
    - No commuting necessary
  - Recorded lectures archived on UTHSC-San Antonio website
    - Video lecture database accessible 24/7 via internet
Getting Started

- Coordinated with a resident representative at each of 8 TX radiology programs
  - Residents selected the faculty to give presentations based on their known high lecture quality
- All radiology institutions in UT system already had IT infrastructure to both host and listen to webcasts
  1) PC/Mac connected to Audio/Video for presentation
  2) Microphone
  3) Radiology workstations readily support software for webcasting
- Many software platforms available for webcasting
  1) Go-to-Meeting
  2) BlueJeans
  3) Adobe Connect
  4) Skype/Google+
<table>
<thead>
<tr>
<th>Date</th>
<th>Speaker</th>
<th>Institution/Position</th>
<th>Topic</th>
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<tbody>
<tr>
<td>August 19, 2015</td>
<td>Dr. Hugh White</td>
<td>UTHSC-San Antonio Associate Program Director</td>
<td>Introduction to MR Enterography</td>
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<tr>
<td>September 10, 2015</td>
<td>Dr. Ezequiel Silva</td>
<td>TRS 1st VP &amp; ACR Council Steering Committee</td>
<td>“How a Dictation becomes a Dollar”</td>
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<tr>
<td>October 28, 2015</td>
<td>Dr. Glenn Garcia</td>
<td>Vice Chair of Radiology at UTMB</td>
<td>“MR Evaluation of the Elbow”</td>
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<tr>
<td>November 13, 2015</td>
<td>Dr. Daniel Ocazionez-Trujillo</td>
<td>UT-Houston Asst. Professor Cardiothoracic Imaging</td>
<td>Cardiac Masses</td>
</tr>
<tr>
<td>December 16, 2015</td>
<td>Dr. Mark Montgomery</td>
<td>TRS 2nd VP &amp; BaylorScott &amp; White IR Division Director</td>
<td>Advanced Vascular Lab</td>
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<tr>
<td>January 14, 2016</td>
<td>Dr. Larry Ginsberg</td>
<td>M.D. Anderson Cancer Center, Professor Neuroradiology and Head &amp; Neck Surgery</td>
<td>Perineural Tumor Spread in H&amp;N Cancer</td>
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<tr>
<td>February 8, 2016</td>
<td>Dr. Kurt Schoppe</td>
<td>TRS Economics Committee, Private Practice Radiology Assoc. of North TX</td>
<td>Intro to Economics and Investing</td>
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<tr>
<td>March 3, 2016</td>
<td>Dr. Wilson Altmeyer</td>
<td>Neuroradiology Fellowship Director UTHSC-San Antonio</td>
<td>Local Cerebral Anatomy</td>
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<tr>
<td>April 4, 2016</td>
<td>Dr. Suhny Abbara</td>
<td>UT-Southwestern Chief of Cardiothoracic Imaging</td>
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<tr>
<td>May 24, 2016</td>
<td>Dr. Nicholas Beckmann</td>
<td>UT-Houston ER/MSK</td>
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<tr>
<td>June 8, 2016</td>
<td>Dr. Leonard Swischuk</td>
<td>UTMB Director of Pediatric Radiology</td>
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UTHSC-San Antonio Online Lecture Library

- Screenshot from UTHSC-SA website
  - Lectures available for on-demand viewing
  - Lectures organized by topic & date
Resident Reviews

- At the completion of the Fall 2015 lecture series anonymous surveys were sent to all TX radiology residents via Survey Monkey©.
- Total of 91 responses were obtained.

**Has the TRS Webcast Lecture Series been a useful addition to your educational curriculum?**

**Has the audio and video quality of the presentations met your expectations?**
What additional topics would you like the TRS webcast lectures to include?

Overview of job market, hiring practices, private vs. academic worklife, etc.
CORE Exam preparatory lecture
Physics
Nothing else

What are you thoughts on the non-didactic lectures (Economics, Billing, Financial Planning, etc)?

My institution already covers the non-didactic topics in our educational curriculum.
Just right. No more, no less.
Not interested. Replace them with didactic lectures.
Good. Would like more of them included in lecture series.
Has the TRS Webcast Lecture Series improved perception of what the Texas Radiological Society has to offer?

Takeaways Points & Lessons learned from lecture series:
1. The technology for live-streaming noon lectures is likely already in place.
2. While it is hard to simulate the quality of seeing a great lecture in person….21st century technology can produce a close to identical replica.
3. Organization can be done on a resident level through TRS/ACR.
4. Lecture series improved resident perception of TRS & ACR.
Ideas to Take Home

- A webcast lecture series is a highly feasible way for state radiological institutions and the ACR to showcase their value to radiology residents
  - Residents want more education about infrequently covered topics in which the ACR has a breadth of knowledge (i.e. business of medicine, job market, etc.)
  - Residents were pleased with video & audio quality of the lectures
- The webcast lecture software can be utilized in a multitude of ways:
  - Recording of daily noon lectures for future resident streaming and review
  - Webcasted CORE Preparatory lectures
  - More interactive remote staff-out between faculty and residents when at different sites