

Physics Summit: Physics Education of Radiologists

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Summary Comments – Day 1

What we have learned:

1. Time of opportunity
 - a. Help radiologists learn and sustain physics knowledge in order to master technology essential to
 - i. Clinical acumen
 - ii. Ensure quality and safety
 - iii. Cost-effectiveness
2. What are the major challenges
 - a. Identify breadth and depth needed
 - i. Core knowledge
 - ii. Protection, detection, quality, dose
 - b. Teach what is needed in a clinically relevant manner
 - c. Examine on what we teach
 - i. Physicists and radiologists work together – standard curriculum
 - ii. Tie certification (ABR) and curriculum (AAPM) together
 - iii. Communication is key - what will we do, why and when
 - iv. NRC tracking
 - d. Reflect changing technology in MOC
3. Make certification process more transparent
 - a. Examination blueprint
 - b. Increase communication re: expectations/changes electronic
 - c. Resident on committees
 - d. Make certification clinically relevant
 - e. Input radiology in physics exam or maybe area, nor questions
 - f. Exam schedule - foundation
 - g. Physics questions in written and oral clinical exams or divide exam
4. Website summary consensus
5. ACGME/RRC emphasis on physics
6. Teaching modules (SAMs) and simulators – point of care teaching
7. Already good materials – Radiographics – more accessible; ACR question of the day/RSNA physics tutorials
8. Women in radiology
9. Computer adaptive exams
10. Challenge to physicists
 - a. too few good teaching physicists
 - i. do they have the knowledge
 - ii. can they teach
 - iii. do they have the time and incentive
 - iv. should we be teaching how to teach – teachable moment and point of care/ when to teach

- b. develop modules and simulators and evaluation process included/could be on line
 - i. who pays – not hospital or medical school
- c. tag team teaching – relative sensitivities; item writing and workshops
- d. challenge of teaching or testing from images
- e. support of chair/senior faculty