

# Effective Use of the RSNA/AAPM Web-Based Physics Modules

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# Events Leading to the Web-Based Modules

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- January 2006: AAPM Educational Summit – Atlanta
- February 2007: RSNA Educational Summit – Dallas
- Several articles in Radiology and the JACR

# Recommendations of the Dallas Summit

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- Revise the physics curriculum
- Encourage the RRC to include physics in residency accreditation
- Revise the physics portion of ABR certification of radiologists
- Develop web-based physics modules for residents

# Task Force Members

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# Phase I Physics Modules

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Radiography/Fluoroscopy	7 modules
Computed Tomography	3 modules
Nuclear Medicine	6 modules
Magnetic Resonance	9 modules
Ultrasound	3 modules
Radiation Biology/Protection	3 modules

# Phase II Physics Modules

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Properties of Atoms/Radiation	4 modules
Image Properties	4 modules
Image Perception/Display/PACS	2 modules
Radiation Protection	1 module
Digital Imaging	1 module
Ultrasound	1 module
MRI	2 modules
Image Gently	1 module

# Properties of Modules

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- No charge for RSNA/AAPM members (students and residents)
- Approximately 1 hour each
- Always available
- Available when/where needed
- Contain special features (animations, pop-ups, video, etc.)
- Self-paced learning
- Can be repeated
- Pop-up questions and self test
- Certificate of successful completion

# Using the Modules

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- Focusing on images
- Completing modules during rotations
- Requiring successful completion
- Reviewing before examinations
- Stimulating questions/discussion
- Getting faculty involved with residents
- Serving as learning guide rather than lecturer
- Incorporating into graduate student education
- Facilitating faculty self-learning
- Using educational medium students are familiar with

# Conclusions

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- Scheduled lectures are difficult to accomplish
- Self-learning is more effective than lecturing
- Web-based modules promote self-learning
- Modules should be considered by every teacher
  - Residents
  - Graduate Students
  - Technologists

# ABRF Web-Based Modules on Ethics and Professionalism

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# ABRF Web-Based Modules on Ethics and Professionalism

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## TOPICS

- Attributes of Professions and Professionalism  
Becker, J. Bosma, et al
- Physician/Patient/Colleague Relationships  
N. Sundaram, et al
- Personal Behavior and Employee Relationships  
P. Halvorsen, et al

# ABRF Web-Based Modules on Ethics and Professionalism

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## TOPICS (continued)

- Conflicts of Interest  
F. Chew, et al
- Ethics of Research  
W. Hendee, et al
- Human Subjects Research  
D. Eisenberg et al
- Research with Animals  
K. Zeitzer, et al

# ABRF Web-Based Modules on Ethics and Professionalism

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## TOPICS (continued)

- Relationships with Vendors  
S. Seltzer, et al
- Publication Ethics  
E. Gould, et al
- Ethics of Education  
K. Hogstrom, et al