Organizations in Nuclear Medicine
Part IV - Others of Importance

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Other Organizations of Importance in NM

- Organizations in NM –
  - What Are They?
  - What Do They Do?
  - Why Should I Care?
  - How Can I Get Involved?
Other Organizations of Importance in NM

• Objective for Part IV:
  • Identify how the different societies, agencies, and organizations impact the practice of Nuclear Medicine
Other Organizations of Importance in NM

• Nuclear Regulatory Commission (NRC)
• Center for Medicare and Medicaid Services (CMS)
• Food and Drug Administration (FDA)
• Accreditation Council for Continuing Medical Education (ACCME)
• Council of Medical Specialty Societies (CMSS)
• American Medical Association (AMA)
Other Organizations of Importance in NM

• Intersocietal Accreditation Commission (IAC)
• The Joint Commission (TJC) (JCAHO)
• National Council on Radiation Protection and Measurements (NCRP)
• National Electrical Manufacturers Association (NEMA)
Other Orgs of Importance in NM

• SAM Questions
  • 1. Which of the following organizations develops and publishes regulations regarding standards for protection against radiation?
    • A. NRC
    • B. NCRP
    • C. FDA
    • D. CMS
SAM Questions

2. Which of the following organizations regulates the use of a written directive?

A. NRC
B. CMS
C. FDA
D. OSHA
Other Organizations of Importance in NM

• SAM Questions
  • 3. Which of the following organizations publishes guidance documents for recommendations regarding radiation safety and radiation protection?
    • A. NRC
    • B. NCRP
    • C. FDA
    • D. CMSS
Other Orgs in NM

• SAM Questions
  • 4. Which of the following organizations produces standards for commercial support to ensure independence in continuing medical education (CME) activities?
    • A. CMS
    • B. CMSS
    • C. ACCME
    • D. ACGME
5. Which of the following organizations has developed a voluntary code of conduct for medical specialty societies in their interactions with commercial companies?

A. CMS
B. CMSS
C. ACCME
D. ACGME
Other Organizations of Importance in NM

• Regulatory Agencies:
  • NRC
  • CMS
  • FDA
Other Organizations of Importance in NM

• Accrediting organizations:
• 3 approved by CMS:
  • IAC
• The Joint Commission
• ACR (American College of Radiology)
Other Organizations of Importance in NM

- Specialty societies
- AMA
- CMSS *
- ACCME *
- NCRP

* Specialty societies of specialty societies
Other Orgs in NM

- Advisory Organization – NCRP
- Advisory with authority – CMSS, ACCME
- Trade organization - NEMA
Other Organizations of Importance in NM

• NRC
  • Created by Congress in 1974 as an independent agency to ensure the safe use of radioactive materials for beneficial civilian purposes while protecting people and the environment.
  • It regulates through licensing, inspection and enforcement of its requirements.
Other Organizations of Importance in NM

• NRC

• Importance: Extremely high. NRC regulations must be followed to practice NM.

• NRC states/Agreement states – practices in NRC states must follow NRC regs; practices in Agreement states must follow state regs, which must be at least as strict as NRC regs (they can be more restrictive, but not less)
Other Organizations of Importance in NM

- NRC
- Main regulations in NM: 10 CFR 20, 10 CFR 35
- Part 20 – Standards for Protection Against Radiation
- Requirements for: occupational dose limits, dose limits to the public, requirements for surveys, monitoring, storage, records keeping, reports.
Other Organizations of Importance in NM

- NRC
- Part 35 - Medical Use of Byproduct Material
- Requirements for: written directives, instrument calibration, syringe labeling, records, reports;
- Training of physicians: imaging and localization studies (35.290), studies that require a written directive (therapy, I-131 WB imaging – 35.392, 35-394)
Other Organizations in Nuclear Medicine

• NRC
  • Sets requirements for Authorized User status
  • ABR must comply with these requirements to certify Radiology exam candidates as Authorized users
Other Organizations of Importance in NM

• CMS
  • US federal agency which administers Medicare, Medicaid and the Children’s Health Insurance Program
  • Provides coverage for 100 million people
  • “CMS is developing new programs and tools as a result of the Affordable Care Act to help you deliver better care. We are your partner in ensuring that millions of Americans are part of a better health care system.”
Other Organizations of Importance in NM

• CMS
• Offers “Regulations, Guidance & Standards” – from the website
• Importance: Reimbursement for the interpretation of a NM study on a Medicare patient is paid by CMS
• For studies on Medicare patients, we must follow Medicare rules
Other Organizations of Importance in NM

- **FDA** — “Protecting and Promoting Your Health” – from the FDA website
- An agency within the US Dept. of Health and Human Services
- FDA is responsible for protecting the public health by assuring the safety, effectiveness, and security of human and veterinary drugs, vaccines and other biological products, medical devices, our food supply, cosmetics, dietary supplements, and products that give off radiation
Other Organizations of Importance in NM

• FDA
• Provides information for
• Consumers and patients
• Health professionals
• Scientists and researchers
• Industry
Other Organizations of Importance in NM

- FDA
- Radiation-Emitting Products Topics
- Radiation-Emitting Products and Procedures – includes medical imaging
- Radiation Safety – radiation dose reduction, Nationwide Evaluation of X-Ray Trends (NEXT)
- MQSA
Other Organizations of Importance in NM

• FDA
  • Reviewed safety and effectiveness of F-18 FDG as part of their drug development and approval process,
  • This includes “Current Good Manufacturing Practice” (CGMP) regulations
  • FDA approves PET radiopharmaceuticals under the Food and Drug Administration Modernization Act (FDAMA) of 1997.
Other Organizations of Importance in NM

• SAM Question 1
  • Which of the following organizations develops and publishes regulations regarding standards for protection against radiation?
  • A. NRC
  • B. NCRP
  • C. FDA
  • D. CMS
Other Organizations of Importance in NM

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Other Organizations of Importance in NM

• SAM Question 1
  • Which of the following organizations develops and publishes regulations regarding standards for protection against radiation?
    • A. NRC
    • B. NCRP
    • C. FDA
    • D. CMS
  • Answer: A - NRC
Other Organizations of Importance in NM

• SAM Question 2
  • Which of the following organizations regulates the use of a written directive?
  • A. NRC
  • B. CMS
  • C. FDA
  • D. OSHA
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Other Organizations of Importance in NM

• SAM Question 2
  • Which of the following organizations regulates the use of a written directive?
  • A. NRC
  • B. CMS
  • C. FDA
  • D. OSHA
  • Answer: A - NRC
Other Organizations of Importance in NM

- NCRP
  - Private corporation – nongovernmental, not-for-profit, public service organization
  - Has status as an educational and scientific body which is tax-exempt
  - Functions as an advisory body
Other Organizations of Importance in NM

• **NCRP**
  
  • Mission: To support radiation protection by providing independent scientific analysis, information, and recommendations that represent the consensus of leading scientists.
  
  • Recommendations by the NCRP provide the scientific basis for radiation protection efforts throughout the US.
Other Organizations of Importance in NM

• ACCME – not for profit corporation
• Mission: identification, development, and promotion of standards for quality continuing medical education (CME) utilized by physicians in their maintenance of competence and incorporation of new knowledge to improve quality medical care for patients and their communities.
Other Organizations of Importance in NM

• ACCME
  • Compliance with their guidelines is required to be accredited to offer CME
  • Importance: This is the main accrediting body for CME. It accredits societies and hospitals that provide CME
  • SNM offers CME at its meetings through compliance with ACCME guidelines
Other Organizations of Importance in NM

• CMSS – Founded in 1965
• Created to provide an independent forum for the discussion by medical specialists of issues of national interest and mutual concern.
• CMSS –

• Mission: to provide a respected and influential voice for medical specialty societies and their members by working with the societies and other medical organizations to formulate, articulate and promote adoption of policies that will improve the United States’ healthcare system and health of the public.
Other Organizations of Importance in NM

• CMSS
  • Code for Interactions with Companies –
  • Societies are counted on to be authoritative, independent voices in science and medicine. Public confidence is critical, and the public relies on us to minimize actual or perceived conflicts of interest.
  • Every Society must be sure its interactions with companies meet high ethical standards.
Other Organizations of Importance in NM

SAM Question 3
Which of the following organizations publishes guidance documents for recommendations regarding radiation safety and radiation protection?

A. NRC
B. NCRP
C. FDA
D. CMSS
Other Organizations of Importance in NM

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Other Organizations of Importance in NM

• SAM Question 3
• Which of the following organizations publishes guidance documents for recommendations regarding radiation safety and radiation protection?
  • A. NRC
  • B. NCRP
  • C. FDA
  • D. CMSS
• Answer: B - NCRP
Other Organizations of Importance in NM

• SAM Question 4
• Which of the following produces standards for commercial support to ensure independence in continuing medical education (CME) activities?
• A. CMS
• B. CMSS
• C. ACCME
• D. ACGME
Other Organizations of Importance in NM

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Other Organizations of Importance in NM

• SAM Question 4

• Which of the following produces standards for commercial support to ensure independence in continuing medical education (CME) activities?
  • A. CMS
  • B. CMSS
  • C. ACCME
  • D. ACGME
  • Answer: C - ACCME
Other Organizations of Importance in NM

• SAM Question 5
  • Which of the following organizations has developed a voluntary code of conduct for medical specialty societies in their interactions with commercial companies?
  • A. CMS
  • B. CMSS
  • C. ACCME
  • D. ACGME
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Other Organizations of Importance in NM

• SAM Question 5
  • Which of the following organizations has developed a voluntary code of conduct for medical specialty societies in their interactions with commercial companies?
  • A. CMS
  • B. CMSS
  • C. ACCME
  • D. ACGME
  • Answer: B - CMSS
Other Organizations of Importance in NM

• AMA
  • Specialty society of physicians
  • Mission: To promote the art and science of medicine and the betterment of public health.
  • Core values:
    • Leadership
    • Excellence
    • Integrity and ethical behavior
Other Orgs

- AMA

  Importance:
  - Membership in the AMA allows the SNM to participate in the CPT and RUC committees, which recommend reimbursement rates for NM exams.
  - RUC – Relative value scale Update Committee
Other Organizations of Importance in NM

• IAC

• Purpose – to provide a mechanism for accreditation of facilities which perform comprehensive testing in vascular, echocardiography, NM, MR, and CT studies, and carotid stenting.

• Accreditation demonstrates a commitment to quality care, provides confidential peer review, can be used as a recruiting tool, and is intersocietal.
Other Organizations of Importance in NM

• ICANL – Intersocietal Commission for the Accreditation of Nuclear medicine Laboratories
  • Includes general NM, PET and Nuclear Cardiology
  • Several sponsoring organizations – including SNM, SNMTS, ACNM, ASNC, ASRT, ACC, AMI (WMIS?)
Other Organizations of Importance in NM

• ICANL

• Importance – accreditation offers a number of benefits, some of which were mentioned earlier. In addition to those, it can also be used as a marketing tool to promote business.
Other Organizations of Importance in NM

• Joint Commission
  • An independent not-for-profit organization. It accredits and certifies more than 19,000 health care organizations and programs in the US.
  • “Joint Commission accreditation and certification is recognized nationwide as a symbol of quality that reflects an organization’s commitment to meeting certain performance standards.”
Other Organizations of Importance in NM

• Joint Commission
  • Mission: To continuously improve health care for the public, in collaboration with other stakeholders, by evaluating health care organizations and inspiring them to excel in providing safe and effective care of the highest quality and value.
  • Importance: accreditation allows the institution to receive Medicare reimbursement.
Other Organizations of Importance in NM

• **NEMA - The Association of Electrical and Medical Imaging Equipment Manufacturers**
• Leading trade association representing the interests of electrical manufacturers
• Purpose – set standards
• Nomenclature, composition, construction, dimensions, tolerances, safety, operating characteristics, performance, ratings, testing, the service for which it is designed
Other Organizations of Importance in NM

- NEMA
  - Importance to NM: standards in place for performance of gamma cameras, PET cameras, probes, etc.
  - Standards and guidance publications are developed through a voluntary consensus standards development process.
Other Organizations of Importance in NM

• NEMA
• Importance: useful guidance for performance of imaging equipment
• By putting these standards in the contract, and performing acceptance testing, the buyer ensures high quality performance