Discussion

How can we convince people that radionuclide metrology is important for life sciences:

and how can we obtain funding?

NIST Perspective

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NIST Perspective

- Transfer standards to users
- Regulatory Framework
- Written Standards
- Examples
- Advocates
- Workshops

Transfer Standards to Users

- Radionuclide Activity Calibrator Settings
  - Their geometry
  - Their solution composition
  - Study volume and container effects
- Standard Reference Materials
- Traceability
  - Defined
  - Ongoing process

Regulatory Framework

- Food and Drug Administration
  - Memorandum of Understanding
  - Continued Communication
  - Traceability required as “good science” in new drug applications
  - Traceability requires a primary standard
- Nuclear regulatory Commission
  - Requires use of standards traceable to NIST

Written Standards

- ANSI N42.13
- NPL Good Work Practice Guide ??
- IAEA Nuclear Pharmacy Guide ??
- Professional Society Guidance Documents
  - SNM – Therapy Council, Quantitative Imaging
  - AAPM – ^{90}Y Microsphere Task Group
  - EANM – Radiopharmacy Committee, Radionuclide Therapy Committee

Examples

- Include “what happens if you do this wrong” in your publications
  - 1989 ^{90}Y Capintec dial setting would result in an activity that was incorrect by 50%
  - NEI/NIST program showed improvements in measurements from year to year

Advocates

- You
  - Professional Societies
  - Committees
- Your Converts
  - Be a resource
  - Explain how your measurements are different from theirs
  - Invite them to work with you (if possible)

Workshops

- Take the lead in organizing
- Write the agenda
- Educate your customers
- Brings stakeholders together to define needs
- Produce a needs document

Funding

- 1st user pays for the standardization
- FDA sends people to us
- Your Converts bring you customers
- Workshops
  - Include the party that stands to benefit
  - Needs documents for your management

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