Global Education Work

Session Title: Addressing Global Needs in Medical Physics Support
July 11, 2022 - 4:30-6:00 PM
AAPM 2022

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Member of GNAC and GRSC (AAPM International Council)
No conflict of interest
Global Education Needs

- Data from the survey to global institutional leaders

What are the BIGGEST Needs at your institution at this time? (Select No More Than 2)

- Qualified staff: 22.10%
- New or updated equipment (e.g., Cobalt 60 units, Brachytherapy system, etc.): 30.54%
- Training on equipment operation: 10.17%
- Training on patient treatment: 12.57%
- None of these: 1.00%
- New or updated software: 10.18%
- Uncertain: 0.60%
- Other: 1.88%
Global Education Needs

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Pie chart showing the greatest infrastructure needs or areas for improvement at institutions. The needs are:

- Training (Equipment training; continuous education): 30.01%
- Personnel: 11.00%
- Research expertise: 18.19%
- Information technology (IT): 5.56%
- Other: 9.50%
- Money/funding: 22.39%
- Nothing really: 9.50%
Global Education Needs

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**Priorities**

![Pie chart showing educational support priorities](chart.png)

- Clinical training: 23.65%
- Course development in medical physics: 13.20%
- Training on conducting research: 15.77%
- Training on medical equipment: 12.60%
- Obtaining certification for our board of directors: 7.47%
- Instructors to teach basic courses in medical physics: 6.64%
- Access to mentors for our students: 0.22%
- Qualified staff: 0.30%
- No support needs currently: 0.42%
- Other: 0.01%
Global Education Needs

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- Does your institution have the capability to train your work force in medical physics on site or do you have to send employees away for training?

- Yes, we train onsite: 36.22%
- Uncertain: 1.05%
- Some of each: 26.84%
- No, we send people off-site for training: 33.68%

- Is your institution affiliated with a graduate program or structured training (e.g. residency, fellowship, specialty certificate, etc.) in Medical Physics?

- Yes: 31.25%
- Uncertain: 2.12%
- No: 65.62%

Reality
Global Education Needs

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Wishes
Global Education - AAPM

- AAPM provides a variety of programs, membership opportunities, and resources for medical physicists, students and related medical and scientific professionals anywhere in the world
  - International Scientific Exchange Program
  - AAPM Virtual Library → continuing education courses
  - AAPM/IOMP Library program
  - IAEA sponsored Training Programs

- International Council (IC)
  - Created: 10/1/2020
  - Council Chair: Dr. Jatinder Palta
  - Interconnections between all committees (6)
Global Education - My experience

- Since 1998 → involved in Seminars, Conferences, Workshops and Round tables in different cities in Argentina, especially Córdoba
Global Education - My experience

- 2015 → IMRT/VMAT and SBRT training (Prostate, Lung, Brain and Spine) - General Hospital of Kuala Lumpur, Malaysia
Global Education - My experience

- 2016 → ISEP/AAPM/IOMP Radiation Therapy Physics Course: Foundation on Theories, Developments, And Practices (Brachytherapy, Advances in IGR, QA Imaging Device/IGRT) - Jakarta, Indonesia
Global Education - My experience

- 2019 → IAEA SBRT Regional Training Course (Prostate, Spine, SBRT QA and QC, Treatment Planning workshop) - Manila, The Philippines
Global Education - My experience

- 2020/2021 → Rayos Contra el Cancer
  - Transition to IMRT 2.0 (for Africa and Middle East - English - Virtual)
  - Transition to IMRT 2.0 (for Latin America - Spanish - Virtual)

- 2022 → Rayos Contra el Cancer
  - Mastering IMRT/VMAT (for Latin America 0 Spanish - Virtual)
Global Education
Your help is very much appreciated

- Voluntary work
- A couple of hours of your time and expertise means much more than that for LMICs
- Stay connected with AAPM for training and educational opportunities
Help disseminate the survey to global institutional leaders

Thank you so much for your attention
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