Importance of Continuous Advanced Training of Medical Physics Worldwide

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Types of Training

• Undergraduate training
• Degree training
• Post-graduate training-ongoing process:
  - residency
  - on the job training
  - special courses for developing new skills (Monte Carlo, other hands-on courses, courses based on updated regulations,
  - new treatment modalities (SBRT, Brachytherapy)
  - vendor-provided "residential" courses: Gamma Knife, HDR,
    Cyberknife, Tomotherapy, Truebeam, new Elektta linacs
  - vendor-provided on-the-job training on site
  - courses for developing countries administered by AAPM,
    EFOMP, IOMP, IAEA etc.
  - exam-preparation classes
  - CME and SAMs required by the Boards, licensing authorities

Strategy

• Importance: the field becomes more and more technical and complicated. Innovations are continuously introduced in practice. Training is necessary for the patients' safety

• Globalization of medical physics:
  - Universal approach to education.
  - Use of the same technical devices
  - Vendor-provided training on site, using experienced physicists from other countries

• Eventual goal - universal approach to medical physics education, evaluation, certification, and licensing.