

AAPM 2005: Education Council Symposium on Physics Residency Programs

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Commission on Medical Physics Education Programs

Clinical Residency Education Programs

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Chair, CAMPEP Residency Education
Program Review Committee

Accreditation – *Why?*

- Standards – Our profession must come in line with Physician training standards.
- Established Minimum Levels of Training
- Funding CMS provides at least 0.25 FTE funding per resident back to the institution for approved programs.

Benefits to Resident

- Has received complete training rather than performing cheaply as a junior physicist or as a “research-clinical” post-doc
- Marketable
- Certification:
 - ABMP exam with no other prerequisites
 - ABR similar acceptance?
 - First time pass rate for graduates of CAMPEP-accredited residency programs is **95%**.
 - The overall ABR physics pass rate in recent years is 53%, including first- through third-time takers.

Residency Evaluation

- CAMPEP Board of Directors:
Sponsored by:

- AAPM
- ACR
- ACMP

– CAMPEP’s Residency Education
Program Review Committee

CAMPEP Residency Education Program Review Committee (REPRC)

Eric E. Klein, M.S. (Chair)
John A. Antoluk, Ph.D.
James F. Dempsey, Ph.D.
Vikram Dogra, M.D.
Peter B. Dunscombe, Ph.D.
Bruce J. Gerbi, Ph.D. (Vice Chair for Therapy)
John D. Hazle, Ph.D.
Marlene McKetty, Ph.D.
Michael D. Mills, Ph.D.
Janelle A. Molloy, Ph.D.
Arno J. Mundt, M.D.
Robert A. Pooley, Ph.D.
Michael V. Yester, Ph.D. (Vice Chair Imaging Physics)

Preliminary Requirements for Program Evaluation

- Official Request from Administration,
Medical Director, and \$5,000
- Hospital Accreditation
- Self-Study (essentially Policy/Procedures)
- Demonstration of Stability
 - It is recommended that at least one resident
has graduated before applying

Accreditation: Definition & Scope

- Compliance with standards of training
 - Overall quality of the program
 - Number and competence of the teaching staff
 - Teaching loads
 - Rigor and breadth of instructional offerings
 - Adequacy of facilities: Machinery and
Procedures
 - Supporting personnel
 - Aptitude of students
 - Performance of the graduates

Accreditation : Evaluation Process

- Steps
 - Preparation of Self -Study (guidelines and template found on campep.org site)
 - REPRC assigns mentor to assist
 - REPRC review's Self -Study
 - Director's response to REPRC review
 - Site visit by REPRC members
 - REPRC evaluation of the site visit report
 - Approval/recommendations by the CAMPEP Board

The screenshot shows the CAMPEP website. At the top, the logo 'CAMPEP' is displayed in large, bold, orange letters. Below the logo, the full name 'Commission on Accreditation of Medical Physics Educational Programs' is written in a smaller font. The main content area is divided into two columns. The left column contains a navigation menu with links such as 'Home', 'Graduate Education Programs', 'Residency for Accreditation (RFA)', 'Application Template (Word)', 'Approved Programs', 'Residency Education Programs', 'Guidelines for Accreditation (Word)', 'Application Template (Word)', 'Residency Programs', 'Residency Program Funding Form (Medical)', 'Continuing Education Programs or Courses: Application Process', 'Fees', 'Sample Application', 'Board of Directors', 'Contact Committee Chairs', and 'Contact Information'. The right column features the heading 'CAMPEP Accreditation of Residency Programs' followed by a paragraph explaining the accreditation process and the role of the Residency Education Program Review Committee (REPRC). At the bottom of the right column, there is a link to 'Guidelines for Accreditation of Medical Physics Residency Education Programs (pdf)'.

Self-Study - Training Requirements

- Requirements for Program Completion (24 months of training)
- Training Essentials - Design and Content
- Program Length and Sample Training Plan
- Training Administration
- Essentials of Clinical Training
- Method of Educational Training (including education for non-Medical Physics graduates)
- Optional Research Training
- Examinations/Evaluations
- Completion Certificate

Training Essentials- Design and Content

- Logical Clinical Rotations
- Training Objectives for each Rotation
- Evaluation Methods
- Assigned mentor's understanding
- Corrective Actions if competency not met

Residents

- Admissions
- Recruitment Efforts
- Number in Program
- Evaluation of Resident Progress
- New Resident Orientation
- Space and Resident Resources

Funding

- Funding Sources
 - Hospital
 - CMS: CMS (formally HCFA) offers reimbursement to facilities with accredited programs. This falls under the paramedical education category, whereby portions of direct cost (salary & benefits) can be reimbursed. - **42 CFR Part 413.85**
 - Grants
 - AAPM/Varian
 - ASTRO –for Startup Programs

Admissions

- Application Packet
- Medical Physics or Related Science
- Some take M.S., most only Ph.D.
- Transcripts
- References
- Application Evaluation and Interview Process clearly documented

Program Administration

- Structure within Hospital/Medical Center
- Role of Program Director
- Committees and Meetings
- Records Available for Review

Accreditation : Evaluation Process

- Site Visit
 - Examine specific areas of the program identified in the Self-Study Review
 - Direct interaction with the faculty, administration and residents
 - Observe adequacy of the facilities
 - Obtain additional data, if needed

Action Following Evaluation

- Accreditation
- Deferral
- Accreditation Withheld

Maintenance of Accreditation: Reevaluation – Every 5 Years

- Self-Study
- Action Following a Reevaluation
 - Accreditation Continued
 - Probation
 - Accreditation Withdrawn

Accredited Medical Physics Residency Programs

Therapy

[Cross Cancer Institute - University of Alberta](#)

[University of Chicago Medical Center](#)

[University of Minnesota Medical School](#)

[Mayo Clinic](#)

[McGill University](#)

[University of Florida](#)

[University of Louisville School of Medicine](#)

[University of Wisconsin](#)

[Vanderbilt University Medical Center](#)

[Washington University School of Medicine](#)

Imaging

[The University of Texas M. D. Anderson Cancer Center](#)

Under Review: Therapy: U-Cal/Irvine, University of Toronto, Tom Baker
Cancer Centre Imaging: Cross Cancer Institute