

Geisinger Medical Physics

Resident Expectations

Successful completion of Geisinger's Medical Physics residency program is evaluated based on the resident's ability to meet the following expectations and possess the following overall general competencies. These expectations are in accordance with AAPM Report 249, Essentials and Guidelines for Clinical Medical Physics Residency Training Programs.

- 1) Clinical Medical Physics
 - a. The resident should demonstrate sufficient focus on each rotation to have acquired an understanding of the modality.

- 2) Personal and Inter-Personal Skills
 - a. The resident should be able to demonstrate knowledge of professional interactions with individuals internal to a department and medical institution, and with vendors and others outside the institution.

- 3) Professional Awareness
 - a. The resident is expected to be able to demonstrate an understanding of professional consultations, clinical commitment, workflow cost, technical expertise, risk management, record keeping and regulatory compliance.
 - b. The resident is expected to be an active participant within the radiation oncology department in clinical procedures, having frequent interactions with all staff and assisting others when able to do so.

More Specifically within the area of clinical medical physics, the resident is expected to demonstrate seven competencies in the following major areas of responsibility which will be addressed through fully completing all rotations contained in the rotation guide, experiences and interactions with others within the various clinics.

- 1) Acceptance and Commission testing, and quality assurance of radiotherapy and radiotherapy-related imaging equipment, including the principles of operation, appropriate uses, and limitations of test equipment.

- 2) Equipment specifications and how they are used within the clinic.

- 3) The measurement and verification of the output of ionizing radiation from radiotherapy treatment equipment prior to clinical use and on a routine basis.

- 4) The ability to develop, implement, and oversee radiotherapy procedures and techniques.

- 5) The expertise in the development and oversight of quality assurance and radiation safety measures for therapeutic procedures pertaining to departmental personnel, patients, and the public.
- 6) Perform consultations with radiation oncologists on treatment modalities, techniques, and radiobiological aspects of treatments.
- 7) The ability to train physicists, radiation oncology residents, radiation technologists, or allied health professionals in radiation oncology physics.

Residency Director: _____

Signature _____ Date _____

Resident: _____

Signature _____ Date _____