DIVISION SCOPE OF SERVICE

Division: CONTINENTAL

DHP Classification: RADIATION PHYSICISTS - THERAPEUTIC

Name of Dependent Healthcare Professional (DHP):

The Radiation Physicist – Therapeutic
The Radiation Physicist - Therapeutic (DHP) must have equivalent qualifications, competence and function in the same role as employed individuals performing the same or similar services at the facility, as defined by facility job description.

Definition of Care or Service:
The Radiation Physicist – Therapeutic administers daily radiation treatment under the physician prescription and supervision. Scope of Service may include:

• Development of equipment specifications for radiation therapy treatment, brachytherapy, simulation, and radiation detection
• Development of procedures for the initial and continuing evaluation of radiation therapy treatment, brachytherapy, simulation, and radiation detection equipment
• Provision of evidence of compliance of equipment for radiation therapy treatment, brachytherapy, simulation, and radiation detection, with regulatory and accreditation agency rules and recommendations
• Measurement and characterization of medical radiation from radiation therapy treatment, brachytherapy, and simulation equipment prior to clinical utilization
• Acceptance testing, evaluation and commissioning of equipment used for external-beam therapy, brachytherapy, simulation, treatment-planning, and radiation detection; acceptance testing and evaluation of their associated computer systems, algorithms, data, and output
• Evaluation of radiation oncology technical procedures prior to clinical use
• Development and/or evaluation, in conjunction with the medical practitioner, of policies and procedures related to the appropriate therapeutic use of radiation
• Development and/or evaluation, with the medical practitioner, of the dosimetric component of patients’ treatment plans
• Review of radiation oncology dosimetry information noted in patient records
• Development and management of a comprehensive Quality Management Program that monitors, evaluates, and optimizes radiation oncology processes
• Development and/or evaluation of a comprehensive clinical radiation safety program in radiation oncology
• Direction of the Radiation Oncology Physics program to include the technical direction of staff responsible for treatment planning, machine maintenance and repair and other physics support staff.
• Provision of consultation on patient or personnel radiation dose and associated risks
• Provision of radiation oncology physics and radiation dosimetry training for medical practitioners and other health-care providers
• Provision of consultation to assure accurate radiation dose delivery
• Provision of institutional consultation on program development in radiation oncology
• Planning and specification of thickness, material, and placement of shielding needed to protect patients, workers, the general public and the environment from radiation produced incident to diagnosis or treatment of humans
• Assessment and evaluation of installed shielding designed to protect patients, workers, and the general public from radiation produced incident to diagnosis or treatment of humans
• Use of imaging procedures as they pertain to the simulation, treatment planning and treatment delivery in therapeutic radiologic procedures.
• Involvement in informatics development and direction
**DIVISION SCOPE OF SERVICE**

- Other medical applications of physics as appropriate to safely carry out therapeutic radiologic procedures
- Medical Health Physics procedures associated with the practice of Therapeutic Radiology
- Scope of Service will not exceed the scope of practice defined by the American College of Medical Physics (ACMP).
- Demonstrate Clinical and Service excellence behaviors to include HCA code of conduct core fundamentals in daily interactions with patients, families, co-workers and physicians

**Setting(s):**
- Healthcare facilities including but not limited to hospitals, outpatient treatment facilities, imaging centers, and physician practices
- Operating Room, Nuclear Medicine, Radiation Therapy

**Supervision:**
- Direct supervision by Radiation Safety Officer, Radiation Safety Committee, Imaging Director and/or Radiation Therapy Director

**Evaluator:** Imaging department director or designee with input from Radiation Safety Officer

**Qualifications:**
- Masters of Science or Ph.D. in medical physics, physics, radiation biology, or a related discipline
- Completion of an approved residency or post-doctoral program (CAMPEP) in clinical medical physics
- Certification: the primary qualification for the practice of Medical Physics is certification in the appropriate sub-field by the American Board of Medical Physics, the American Board of Radiology for Medical Physics, the Canadian College of Physicists in Medicine or the American Board of Science in Nuclear Medicine. Certification by the American board of Health Physics is an acceptable qualification for the practice of Medical Health Physics.

**State Requirements:**
- N/A

**Experience:**
A minimum of two years’ prior clinical experience as a hospital medical physicist or radiation physicist

**Competencies:**
The Radiation Physicist – Therapeutic will demonstrate:
- Provides a safe environment for patients
  - Uses at least two ways to identify patients before treating or performing a procedure
  - Labels all medications and solutions on and off the sterile field in perioperative and procedural setting.
  - Participates in the pre-procedure process to verify the correct procedure, for the correct patient, at the correct site and involves the patient in the verification process
- Accurate patient information review and evaluation
  - Plans treatment, localization and dose calculations
  - Complies with local, state and federal regulations
  - Maintains local documentation as source identification and description
  - Performs quarterly audits for sources in storage or use
  - Performs radiation surveys of all implants
  - Provides on-call support during implant duration
  - Performs exit surveys and inventory sources
- Infection Prevention
  - Practices consistent hand hygiene
  - Uses personal protective equipment (PPE)
  - Required immunizations per DHP Division requirements
  - Complies with Isolation precautions
DIVISION SCOPE OF SERVICE

References:
- A Guide to AHP Credentialing, 2nd Edition
- Briefings on Credentialing White Paper – Medical Physicist

DHP Printed Name: _______________________ DHP Signature: _________________________

Company/ Vendor: _____________________________________ Date: ____________________