

DOSIMETRIST

DISTINGUISHING FEATURES OF THE CLASS: Under the direction of a Radiologist and the general supervision of a Radiation Physicist, an incumbent of this class is responsible for producing an external beam treatment plan for patients undergoing radiation therapy, either by use of isodose charts or treatment planning computer; calculates dose distribution for Brachytherapy implant procedures using radioactive materials. Responsibility also involves maintaining an inventory of radioactive materials for Brachytherapy, and managing the storage, use and disposal of these materials under required safety procedures. Supervision may be exercised over radiotherapy technologists in the implementation of the treatment plan.

EXAMPLES OF WORK: (Illustrative Only)

Consults with the Radiologist on the patient diagnosis and irradiation treatment plan;

Obtains contour(s) of the patient for treatment plan calculations;

Develops teletherapy treatment plan(s) in consultation with the radiologist using isodose charts or treatment planning computer;

Produces or participates in the production of teletherapy treatment devices such as shadow blocks, tissue compensatory, etc.;

Reviews patient treatment charts weekly with Radiation Physicist, insuring accuracy of calculations and dosages;

Prepares final chart and dosage summary for presentation to Radiologist after completion of therapy;

Participates in weekly radiation therapy chart rounds;

Maintains an adequate inventory of radioactive sources used in brachytherapy; managing the ordering, receiving, storage and disposal of these materials in accordance with acceptable safety standards and procedures;

May function as assistant to Radiologist in intra-cavitary and interstitial implant procedures;

Assists Radiation Physicist in brachytherapy dosage calculations;

Prepares radioactive sources for insertion by Radiologist;

Conducts radiation protective survey of brachytherapy patients, under the supervision of the Radiation Physicist;

May perform in vivo dosimetry such as TLD measurement, under the supervision of the Radiation Physicist;

May participate in special dosimetry related projects with the Radiation Physicist;

Provides instruction and training to departmental staff, as needed;

EXAMPLES OF WORK: (Illustrative Only) (Continue)

Accesses protected health information (PHI) in accordance with departmental assignments and guidelines defining levels of access (i.e. incidental vs. extensive);

Uses computer applications or other automated systems such as spreadsheets, word processing, calendar, e-mail and database software in performing work assignments.

REQUIRED KNOWLEDGE, SKILLS, ABILITIES AND ATTRIBUTES: Thorough knowledge of all modern procedures and techniques involved in the taking of xray films for radiation therapy purposes; thorough knowledge in the use and operation of various radiographic and related equipment; good knowledge of computerized radiation treatment planning systems; good knowledge of the human anatomy; good knowledge of specific safety precautions which must be observed in the operation and use of radiological equipment and radioactive materials; ability to maintain effective working relationships with medical and nursing staff; ability to effectively use computer applications such as spreadsheets, word processing, calendar, e-mail and database software in performing work assignments; initiative; tact; sound judgment; physical condition commensurate with the demands of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: High school or equivalency diploma and six years of recent experience where the primary function of the position was as a clinical medical dosimetrist under the supervision of a certified medical dosimetrist, medical physicist or radiation oncologist.

SUBSTITUTION:

Possession of a Bachelor's Degree* in the physical or biological sciences may be substituted for four years of the above stated experience.

Satisfactory completion of 30 credits* may be substituted on a year for year basis for up to two years of the above stated experience.

Certification and current registration by the American Registry of Radiological Technologists (ARRT) in the field of radiation therapy technology may be substituted for two years of the above stated experience.

NOTE: Unless otherwise noted, only experience gained after attaining the minimum education level indicated in the minimum qualifications will be considered in evaluating experience.

*SPECIAL NOTE: Education beyond the secondary level must be from an institution recognized or accredited by the Board of Regents of the New York State Education Department as a post-secondary, degree-granting institution.

West. Co.
J. C.: Non-competitive†
MVV3

Job Class Code: C2340
Job Group: XV

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For departments: