



Radiation Safety Office

Thomas Thompson
U.S. Nuclear Regulatory Commission
Region I

Telefacsimile No. 610-337-5269

Re: MC135424

Dear Tom,

Per your e-mail request, the authorized medical physicist for Graduate Hospital is Patrick Glennon. M.S., CHP, DABR. As indicated in his curriculum vitae (see attached) Mr. Glennon is a full time medical physicist for Graduate Hospital and as such has been the responsible physicist for all therapeutic medical physics activities at the hospital, including the Novoste intravascular brachytherapy, prostate seed-implants and linear accelerator external beam (teletherapy) therapy for the last several years.

Please let me know if you need any additional information.

Regards,

Kent Lambert, M.S., CHP
Director, Radiation Safety

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NMSS/RGNI MATERIALS-002

Patrick T. Glennon, M.S., C.H.P., D.A.B.R.

Medical Physicist

Certifications:

American Board of Health Physics (Comprehensive), 1983

American Board of Radiology (Therapeutic Physics), 1996

Academic:

B.S. (Physics) The Cooper Union for the Advancement of Science
and Art
New York City

M.S. (Physics) Steven's Institute of Technology
Hoboken, New Jersey

Professional Employment:

Physicist (2001-present) Graduate Hospital, Philadelphia, Pennsylvania

Provide all radiation therapy medical physics services at Graduate Hospital. Responsible for maintaining compliance with Federal and State regulations as well as industry standards. Review of treatment plans and patient charts, monthly and annual calibrations and checks of linear accelerators, and simulator units.

Preplanning and post insertion planning of low dose rate temporary brachytherapy treatments and associated health physics aspects of brachytherapy afterloading. Perform inventory control of brachtherapy sources.

Pre and post planning of permanent prostate seed implants. Part of Operating Room team. Ensure hospital's Quality Management Program is followed and all procedures are done following good Health Physics practices. Receive, assay, and ship sources.

Part of treatment team for cardiac intravascular brachytherapy. Ensure hospital's Quality Management Program is followed and all procedures are done following good Health Physics practices. Receive, assay, and ship sources.

Equipment

Varian Clinac 2100C, Varian Clinac 600C linear accelerators.
Varian Ximatron simulator
ADAC Pinnacle 3D-Treatment Planning System
Multidata Water Tank System
Multidata Film Scanning System
MMS Treatment Planning system for prostate implants
Novoste Beta-Cath system for cardiac intravascular brachytherapy

Physicist (2000-2001) Albert Einstein Medical Center, Philadelphia, Pennsylvania

Provide radiation therapy medical physics services with another medical physicist at Albert Einstein Medical Center. Responsible for maintaining compliance with Federal and State regulations as well as industry standards. Review of treatment plans and patient charts, monthly and annual calibrations and checks of linear accelerators, and simulator units.

Preplanning and post insertion planning of low dose rate temporary brachytherapy treatments and associated health physics aspects of brachytherapy afterloading. Perform inventory control, surveys, and wipe tests of brachtherapy sources.

Developed pre and post planning of permanent prostate seed implants.

Equipment

Varian Clinac 2100C, Varian Clinac 4-80 linear accelerators.
Toshiba simulators
CMS Focus 3D-Treatment Planning System

Physicist (2000-2000) Graduate Hospital, Philadelphia, Pennsylvania

Provide all radiation therapy medical physics services at Graduate Hospital. Responsible for maintaining compliance with Federal and State regulations as well as industry standards. Review of treatment plans and patient charts, monthly and annual calibrations and checks of linear accelerators, and simulator units.

Preplanning and post insertion planning of low dose rate temporary brachytherapy treatments and associated health physics aspects of brachytherapy afterloading. Perform inventory control, surveys, and wipe tests of brachtherapy sources.

Pre and post planning of permanent prostate seed implants. Part of Operating Room team. Ensure hospital's Quality Management Program is followed and all procedures are done following good Health Physics practices. Receive, assay, and ship sources. Provide in-service instruction to nursing personnel.

Equipment

Varian Clinac 2100C, Varian Clinac 600C linear accelerators.
Varian Ximatron simulator
ADAC Pinnacle 3D-Treatment Planning System
Multidata Water Tank System
Multidata Film Scanning System
MMS Treatment Planning system for prostate implants

Physicist (1992-2000) Cooper Hospital, Camden, New Jersey

Provide all radiation therapy medical physics services to neighboring hospitals as part of Cooper's physics group as well as at Cooper Hospital. Responsible for maintaining compliance with Federal and State regulations as well as industry standards.

Services include review of treatment plans and patient charts, monthly and annual calibrations and checks of linear accelerators, orthovoltage, superficial, and simulator units.

Preplanning and post insertion planning of low dose rate brachytherapy treatments and associated health physics aspects of brachytherapy afterloading. Perform inventory control, surveys, and wipe tests of brachtherapy sources.

Provide in-service instruction to therapists.

Perform special calculations for unusual treatment set-ups as well as for radionuclide therapy administrations.

Equipment:

Varian Clinac 1800, Varian Clinac 6/100, Siemens Mevatron, Phillips 75-14 linear accelerators.

Phillips simulators, Varian Ximatron simulators, Toshiba simulators
Siemens Stabilipan Orthovoltage Unit
Picker Superficial X-Ray Unit
ADAC, CMS, and Multidata 2D-Treatment Planning Systems
ADAC Pinnacle 3D-Treatment Planning System
PTW, CMS, and Multidata Water Tank Systems
Multidata Film Scanning System

Physicist (1989-1992)**Hahnemann University, Philadelphia, Pennsylvania.**

Provided physics support for all brachytherapy including preplanning, source ordering, source localization, computer calculation of doses and isodose lines, and assisted physician in optimizing loadings.

Lead physicist on ocular melanoma treatment program. Designed and constructed ophthalmic brachytherapy applicators, calculated isodose lines and treatment times. Present in operating room for brachytherapy application and removal.

Taught "Physics of Nuclear Medicine" and portions of "Bio-nucleonics" at graduate school level. Taught brachytherapy portion of Hahnemann's Dosimetry Review Course.

Physicist (1980-1989)**PSE&G, Newark, New Jersey**

Set up and solved differential equations modeling multi-compartment radioactive transport during several postulated accident sequences, wrote computer codes to calculate the results and included results in licensing documents for nuclear power plants.

Wrote computer codes to estimate doses to individuals resulting from unusual exposure situations.

Designated physicist in computerized dosimetry. Performed all special studies relating to characterizing and improving existing dosimetry system. Investigated, characterized, organized and conducted training on new computerized dosimetry systems.

Performed internal dose calculations for individuals who inadvertently ingested radioactive materials.

Physicist (1979-1980)**Rockwell Hanford Operations, Richland, Washington**

Led effort on Low Level Radioactive Waste Environmental Impact Statement for Department of Energy's Hanford Site. Included planning manpower requirements, developing schedules and budgets for analyses. Coordinated interdepartment and intercontractor efforts to be used to clean up low level radioactive wastes from World War II.

Wrote individual environmental assessments of small projects as needed.

Physicist (1978-1979)**Dames and Moore, White Plains, New York**

Performed dose calculations and wrote radiological sections of Environmental Reports.

Physicist (1975-1978)**Columbia-Presbyterian Medical Center, New York, New York.**

One of three physicists responsible for keeping one of the largest medical centers in New York City in compliance with applicable regulations. Performed calibrations of x-ray and fluoroscopic equipment, performed shielding calculations, performed surveys of patients containing radioactive material, received and disposed of radioactive material, calibrated survey instruments, performed dose calculations, dispensed radio-iodine, and performed all other activities normal to such an operation.

Memberships:

American Association of Physicists in Medicine (AAPM)
American Academy of Health Physics
American College of Radiology
National Health Physics Society (HPS)
Delaware Valley Chapter of the American Association of Physicists in Medicine
Delaware Valley Society for Radiation Safety (DVSRS)
American Society for Therapeutic Radiology and Oncology (ASTRO)

Publications:

Microdosimetry Estimations of I-125 Labeled MAb 425 After Internalization by Human Glioma Cells, H.Bender, J.G.Emrich, P. Glennon, Z. Steplewski, L.W. Brady, The Society of Nuclear Medicine 39th Annual Meeting, 1992

Pharmacokinetic behavior and microdosimetry of I-125 labeled epidermal growth factor receptor MAb 425 in human glioma cells in vitro, H.Bender, J.Emrich, P. Glennon, Z. Steplewski, L.W. Brady, Seventh International Conference on Monoclonal Antibody Immunoconjugates for Cancer, 1992

Health Physics Aspect of Reactor Lower Internals Transfer at Salem Unit 1; W.J. Millsap, L.T. Zitkevitz, P.T. Glennon, and J. Sejvar; Radiation Protection Management; 1990

Experimental Confirmation of Predicted Dose Rates of the Salem Lower Core Barrel; Proceedings of the Second Conference on Radiation Protection and Dosimetry; Orlando, Florida; 1988

Radiological sections of Hope Creek Nuclear Generating Station Environmental and Final Safety Analysis Reports