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Fellow of the American Association of Physicists in Medicine

Diplomate of the American Board of Radiology

- Syed vaginal needle templates containing radioactive stranded ribbons with LDR ^{192}Ir
- Paris system designed surgical placement of catheters for HDR and LDR ^{192}Ir
- MammoSite facility program development with HDR ^{192}Ir
- Ultrasound guided prostate implants with LDR ^{125}I , ^{103}Pd and ^{131}Cs
 - Preplanned pre-packaged or hand-loaded needle loaded implants
 - Real-time Mick applicator implants
 - Calibration of GE Model Logic P5 computer software against CR Bard Sure-Stepper grid and CIVCO Classic Stepper B&K grid

Intracavitary

- Gyn-oncology tandem, ovoid and cylinder applications with LDR ^{137}Cs
- Gyn-oncology tandem, ovoid, cylinder and catheter applications with HDR ^{192}Ir

Special Procedures

- Conventional simulation on diagnostic x-ray units for brachytherapy patient source localization
- Insert contrast media into Foley catheter for radiography
- Hand-load and remove radioactive ^{137}Cs and ^{192}Ir in patient for LDR cases
- GliSite program for brain tumors with ^{125}I (aq)
- Zevalin program for non-Hodgkin's lymphoma radioimmunotherapy with ^{111}In and ^{90}Sr - ^{90}Y (aq)
- Xofigo program for prostate bone metastasis with ^{223}Ra (aq)

Computerized Treatment Planning

- Prostate needle implants: Varian VariSeed, MMS, CMS XiO
- Vaginal/Rectal Syed loading: CMS XiO, R.O.C.S.
- COMS loading: RenderPlan
- LDR gyn-oncology & special procedures: Varian BrachyVision, CMS XiO, R.O.C.S.
- HDR gyn-oncology & special procedures: Varian BrachyVision, CMS XiO, Elekta Oncentra
 - Guidant ^{32}P afterloader
 - Varian VariSource afterloader
 - Nucletron Selectron & microSelectron afterloader

Cumulative Administrative Duties

- Radiation Safety Officer & Radiation Safety Committee Chair; Radioactive Material License production, application and maintenance
- Policy and Procedure Manual production, application and maintenance
- ACR Accreditation program initial development to acceptance in 2007 (3rd facility in KY)
- ACRO Accreditation program initial development to acceptance in 2009 (1st facility in KY)
- Training of Qualified Medical Physicist Site Accreditation Reviewers
- Supervision and training of Staff Medical Physicists, Dosimetrists, Radiation Therapy Technologists, Radiology Technologists
- Continuing education development for all intradepartmental Allied Health Professionals
- Institutional Review Board (IRB) Investigator-Initiated Research Principal Investigator (PI)
- Tumor Board participant
- American Cancer Society Annual Report Committee member