Daniel Okafor

Medical Physicist

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SUMMARY

ABR board-certified Medical Physicist with 4 years of independent clinical practice after a CAMPEP-accredited residency. Handles treatment planning review, IMRT and SBRT quality assurance, HDR brachytherapy and radiation safety for a 4-linac radiation oncology department, working side by side with radiation oncologists and dosimetrists.

EXPERIENCE

Medical Physicist

07/2022 - Present

Gulf Coast Cancer Institute — Houston, TX

One of 3 staff physicists in a community radiation oncology department treating about 110 patients a day.

- Review and approve **1,400+** treatment plans a year, checking dosimetry, organ constraints and setup against each prescription.
- Run IMRT and VMAT patient-specific QA on ArcCHECK, holding a 98% gamma pass rate at 3%/2 mm.
- Commissioned an SRS program with radiation oncologists and neurosurgery that treated 85 brain metastasis patients in its first year.
- Verify the HDR brachytherapy Ir-192 source strength at each of 4 yearly exchanges and sign off every applicator plan.

Medical Physics Resident

07/2020 - 06/2022

Alamo University Hospital — San Antonio, TX

Two-year CAMPEP-accredited therapeutic medical physics residency across 2 hospital campuses.

- Completed 24 months of rotations in external beam, brachytherapy, imaging and radiation safety under 6 attending physicists.
- Planned 60 SBRT lung and spine cases in Eclipse and presented each at weekly chart rounds.
- Built a MIM workflow for MRI and CT fusion that cut contour review by 20 minutes per case.
- Performed annual TG-142 linac quality assurance on 3 machines alongside the senior physics staff.

Graduate Research Assistant

08/2018 - 05/2020

Duke University Medical Physics Program — Durham, NC

Thesis research on dose verification for small radiation fields.

- Measured output factors for 12 small field sizes with diode and film detectors.
- Wrote Python scripts that compared measured and calculated dose across 300 film scans.
- Presented thesis results at 1 AAPM regional chapter meeting.

SKILLS

Treatment Planning

Quality Assurance

Dosimetry • Brachytherapy

Radiation Safety • IMRT

SBRT • SRS • MIM

Communication Skills

EDUCATION

Master of Science 05/2020

Duke University — Durham, NC

Medical Physics

CERTIFICATES

Board Certification, Therapeutic Medical Physics

American Board of Radiology

2024