Brian Mercer

MEDICAL DOSIMETRIST

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Summary

Certified Medical Dosimetrist (CMD) with 4 years of treatment planning and 3 earlier years as a radiation therapist. Creates IMRT, VMAT and 3D plans in Eclipse, uses MRI fusion for target contouring, and works daily with physicians and physicists in radiation oncology while managing a full planning queue.

Skills

- Treatment Planning
- IMRT
- VMAT
- Eclipse
- MRI Fusion
- HDR Brachytherapy
- Radiation Oncology
- Radiation Safety
- Oral and Written Communication Skills
- Time Management

Experience

Medical Dosimetrist 06/2022 - Present

Desert Sun Radiation Oncology Phoenix, AZ

One of 4 dosimetrists covering 3 linacs and an HDR unit in a busy outpatient center.

- Design about **45** treatment plans a month in Eclipse, including IMRT, VMAT and SBRT lung cases.
- Merge MRI and PET images into planning CTs for 20 brain and prostate patients a month.
- Create HDR brachytherapy plans for 8 cervical cases a month and verify dwell times with the physicist.
- Prioritize the planning queue so 97% of plans finish before the scheduled start date.

Medical Dosimetry Intern 08/2021 - 05/2022

Valley of the Sun Cancer Center Mesa, AZ

Clinical practicum for the medical dosimetry master's program.

- Completed 120 supervised plans across 8 treatment sites.
- Calculated monitor units by hand for 40 electron and palliative cases.
- Reviewed 3D conformal plans with 2 physicists each week for dose constraints.

Radiation Therapist 06/2018 - 07/2021

Valley of the Sun Cancer Center Mesa, AZ

Staff therapist on a 2-linac team.

- Delivered daily treatments to 35 patients per shift following each written prescription.
- Ran cone beam CT setup checks and corrected shifts within 3 mm tolerance.
- Followed radiation safety rules for 1,200 HDR treatments without a single incident.
- Explained treatment steps to new patients and families at first visits.

Education

Master of Science 05/2022

University of Wisconsin-La Crosse La Crosse, WI

Medical Dosimetry

Certificates

Certified Medical Dosimetrist (CMD)

Medical Dosimetrist Certification Board

2022

Radiation Therapy (T)

American Registry of Radiologic Technologists

2018