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Understanding the importance of daily imaging in the treatment of non-melanoma skin cancer with image-guided superficial radiation therapy

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Image-guided superficial radiation therapy (IGSRT) combines superficial radiation therapy (SRT) with full dermal visualization (FDV) via high-resolution dermal ultrasound (HRDUS) for the treatment of non-melanoma skin cancer (NMSC). The gold standard for IGSRT delivery includes a comprehensive cancer care model with support for dermatologists from a multidisciplinary team. When delivered in this model, IGSRT can achieve cure rates of 99% for treatment of NMSC. This paper focuses on the benefits of HRDUS used in conjunction with SRT for NMSC. Medical records from 7 dermatology clinics of 883 patients with 1507 cases of NMSC treated with

IGSRT between 2017 and 2018 were retrospectively reviewed. In total, 92% of the NMSC lesions showed daily depth fluctuations, 60.32% of lesions did not require changes during therapy, and nearly 40% of lesions required at least one compensatory change during therapy. In total, 83% of NMSC lesions were labeled as high risk based on the 2024 NCCN guidelines. Increasing and decreasing tumor depth measurements during IGSRT inform dermatologists when adaptive changes in energy (kV), TDF, and dose will result in more efficacy and less toxicity, respectively..

Biography

Dr. Jeffrey B. Stricker is a dermatologist in Dothan, Alabama. He received his medical degree from Michigan State University College of Osteopathic Medicine and has been in practice for more than 20 years. He has expertise in treating acne, shingles, psoriasis, among other conditions - see all areas of expertise. He accepts Medicare, Aetna, Humana, Cigna, Blue Cross, United Healthcare - see other insurance plans accepted. He is highly recommended by patients.