

No difference in toxicity for 6-, 2-fraction HDR in prostate cancer

September 7 2017



(HealthDay)—For men with prostate cancer there is no difference in



acute genitourinary or sexual dysfunction between 6- and 2-fraction high-dose-rate (HDR) brachytherapy monotherapy, according to a study published online Aug. 29 in the *Journal of Medical Imaging and Radiation Oncology*.

Omar Ragab, M.D., from the University of Southern California in Los Angeles, and colleagues conducted a retrospective study involving 116 men with <u>prostate cancer</u> treated with HDR monotherapy from 2010 to 2015. Eighty-one and 35 men had 7.25 Gy × 6-fractions and 13.5 Gy × 2-fractions, respectively. Patients underwent two computed tomography-planned implants spaced one to two weeks apart. Pre-treatment and at three, six, and 12 months post-implantation, patient baseline characteristics, International Prostate Symptom Scores (IPSS), and Sexual Health Inventory for Men (SHIM) scores were collected.

The researchers found that there was no difference between the 6- and 2-fraction groups in baseline and post-implantation IPSS scores. Men treated with 6-fractions had a steeper decline in SHIM scores at one to six months, but it resolved at seven to 12 months. Worse short-term acute urinary toxicity was seen with pre-treatment alpha-blocker use. There was a correlation for worsened SHIM score with increasing age, diabetes mellitus, and androgen-deprivation therapy. Prostate V150 dose and bladder wall dose correlated with increased IPSS score in a dosimetric analysis of outcomes.

"Future research should continue to standardize and validate dose constraints for <u>prostate</u> HDR monotherapy patients," the authors write.

More information: Abstract

Full Text (subscription or payment may be required)

Copyright © 2017 HealthDay. All rights reserved.



Citation: No difference in toxicity for 6-, 2-fraction HDR in prostate cancer (2017, September 7) retrieved 27 April 2024 from

https://medicalxpress.com/news/2017-09-difference-toxicity-fraction-hdr.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.