

Treating prostate cancer and related genitourinary applications

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Abstrak

The treatment of prostate cancer continues to be problematic owing to serious side-effects, including erectile dysfunction and urinary incontinence. Robotic radiosurgery offers a novel, rapid, non-invasive outpatient treatment option that combines robotics, advanced image-guided spatial positioning, and motion detection with submillimeter precision. This book examines all aspects of the treatment of prostate cancer with robotic radiosurgery. It explains how image-guided robotic radiosurgery overcomes the problem of patient motion during radiation therapy by continuously identifying the precise location of the prostate tumor throughout the course of treatment. Hypofractionated radiation delivery by means of robotic radiosurgery systems is also discussed in detail. The book closes by examining other emerging genitourinary applications of robotic radiosurgery. All of the authors are experts in their field who present a persuasive case for this fascinating technique.