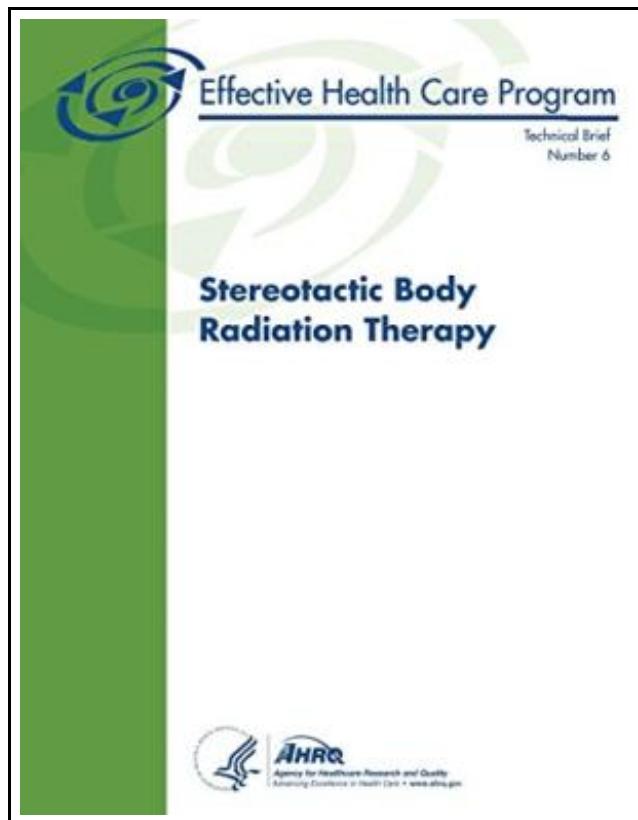


## Stereotactic Body Radiation Therapy: Technical Brief Number 6



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CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 206 pages. Dimensions: 11.0in. x 8.5in. x 0.5in. The development of stereotactic body radiation therapy (SBRT) began in the early 1990s at the Karolinska Institute (Stockholm, Sweden) with researchers Ingmar Lax and Henric Blomgren and was derived from the techniques and procedures of stereotactic radiosurgery (SRS). Researchers in Japan and North America helped develop this treatment during this same time in the 1990s. The American College of Radiology (ACR) and the American Society for Radiation Oncology (ASTRO) define SBRT as an external beam radiation therapy method used to very precisely deliver a high dose of radiation to an extracranial target within the body, using either a single dose or a small number of fractions. SBRT combines multiple finely collimated radiation beams and stereotaxy (3D target localization). The multiple radiation beams intersect to deliver an accurate, high dose of radiation to a carefully defined location. There are several terms that have been used interchangeably for SBRT. These terms include stereotactic radiotherapy, fractionated stereotactic radiosurgery, hypofractionated stereotactic radiosurgery, and staged radiosurgery. Consensus does not exist for the definition of SBRT with respect to a maximum number of radiation fractions, the minimum radiation dose per fraction, or the maximum number and diameter of lesions to be treated. SBRT is characterized by patient immobilization, limiting normal tissue exposure to high-dose radiation, preventing or accounting for organ motion (e.g., respiratory motion), the use of stereotaxy, and the subcentimeter accuracy of the delivered dose. The key components of a SBRT procedure are target delineation, treatment planning, and treatment delivery. The treatment team includes a radiation oncologist, medical physicist, radiation therapist, and depending on the body site and indication, a diagnostic radiologist, nurse, anesthetist, and dosimetrist as needed. 6 Medical professionals,...

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