

PubMed

Search

Display Settings:  Abstract

*Curr Oncol Rep.* 2011 Oct 18. [Epub ahead of print]

## The Role of Whole Brain Radiation Therapy for the Management of Brain Metastases in the Era of Stereotactic Radiosurgery.

Abe E, Aoyama H.

Division of Radiation Oncology, Niigata University Graduate School of Medical and Dental Sciences, 1-757 Asahimachi-dori, Chuo-ku, Niigata, 951-8510, Japan, eabe@med.niigata-u.ac.jp.

### Abstract

The goals of treatment for brain metastases (BMs) include preservation of function and improvement of survival. Although whole brain radiotherapy (WBRT) has been a mainstay in the treatment of BMs, stereotactic radiosurgery (SRS) monotherapy has been increasingly used because of concern about the deterioration of neurocognitive function as a late adverse effect of WBRT. The results of four randomized controlled trials comparing focal treatment alone versus focal treatment combined with WBRT have shown, however, that SRS monotherapy significantly increases the risk of brain tumor recurrence (BTR) and that this increased risk of BTR may cause deterioration of neurocognitive function. We suggest identifying patients according to their risk of BTR when selecting treatment. Patients who have solitary BM with the absence of extracranial metastases may be indicated for SRS monotherapy given the lower risk of BTR compared with those having multiple BMs or extracranial metastases.

PMID: 22006098 [PubMed - as supplied by publisher]

 **LinkOut - more resources**