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Robotic radiology in pancreatic cancer: A systematic review

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#### Abstract

**Aim:** To present a systematic review of techniques and clinical results.

**METHODS:** A systematic review of published literature was performed. Only studies reporting patients outcome after radiology (single fraction) delivered with robotic devices (i.e.: robotic radiology -RR-) have been analyzed.

**RESULTS:** A total of 40 patients from 5 studies were included. The studies are characterized by small series and different methods in terms of dose, target definition, combination with chemotherapy, and/or standard fractionated radiotherapy, and

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The safety and efficacy of **robotic** image-guided **radiosurgery** system treatment for intra-and extracranial lesions: A **systematic review** of the literature

NC Díaz-Santos, JAB Amaro, GA Cardiel... - Radiotherapy and ..., 2008 - Elsevier

... new, frameless stereotactic **radiosurgery** system that incorporates advances in **robotics** and computerised ... involved the term 'CyberKnife' in all fields, or **robotic** image-guided ... Local control 65.2%, Progression 8.6%, Mortality (not attributable to **radiosurgery**) 17.3%, Complications ...

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Image-guided hypo-fractionated stereotactic **radiosurgery** to spinal lesions

SI Ryu, SD Chang, DH Kim, MJ Murphy, QT Le... - ..., 2001 - journals.lww.com

... The CyberKnife system implements an original concept of image-guided frameless **robotic radiosurgery**. ... During treatment, the **robotic** arm moves the LINAC sequentially through the prescribed nodes. ... target position and sends corrective pointing directions to the **robot**, and the ...

被引用次数: 308 相关文章 所有 5 个版本 引用 保存

Results of a phase I dose-escalation study using single-fraction stereotactic radiotherapy for lung tumors

QT Le, BW Loo, A Ho, C Cotrutz... - Journal of Thoracic ..., 2006 - journals.lww.com

... using single-fraction SRT delivered by means of the CyberKnife stereotactic **radiosurgery** system (Accuray ... 10 A **radiosurgical** treatment plan was generated based on **tumor** location and geometry. ... position of the linear accelerator is then adjusted accordingly by the **robotic** arm in ...

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Image-guided **robotic radiosurgery** for spinal metastases

IC Gibbs, P Kamnerdsupaphon, MR Ryu... - Radiotherapy and ..., 2007 - Elsevier

... Image-guided **robotic radiosurgery**. Neurosurgery, 44 (1999), pp. ... CyberKnife stereotactic **radiosurgical** treatment of spinal tumors for pain control and quality of life. J Neurosurg Spine, 2 (2005), pp. ... CyberKnife **radiosurgery** for benign intradural extramedullary spinal tumors. ...

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... to assess the efficacy of conventionally fractionated radiotherapy followed by a stereotactic **radiosurgery** boost in patients with locally advanced **pancreatic cancer**

AC Koong, E Christofferson, QT Le... - International Journal of ..., 2005 - Elsevier

... The position of the internal fiducials is then correlated with the movement of the chest wall and the **robot** retargets the linear accelerator accordingly in real time. ... Phase I study of stereotactic **radiosurgery** in patients with locally advanced **pancreatic cancer**. ...

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