Efectividad, seguridad y estimacion de costes del sistema de radiocirugia Cyberknife
[Effectiveness, safety and cost estimation of Cyberknife Radiosurgery System]

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Citation

Authors' objectives
<p>To assess the efficacy, safety and costs of the CyberKnife Radiosurgery System (CRS). The CyberKnife provides a new technique for performing frameless stereotactic irradiation. The system consists of a lightweight linear accelerator mounted on a computer-controlled robotic arm and two ceiling-mounted diagnostic x-ray cameras for real time digital imaging for treatment of intracranial and extra-cranial lesions. The robotic arm sends multiple beams of high-dose radiation directly to the lesion site.</p>

Authors' conclusions
Quality of published studies precludes any definitive assessment on efficacy and safety of CRS for intracranial and extracranial lesions. CyberKnife is considered as an option for treatment in inoperable tumors or tumors which are unreachable by other stereotactic systems. Fixed costs of CRS (equipment, installation and maintenance) are more expensive than conventional SRS. Cost estimation by patient/year will depend on the annually patients treated scenarios.

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