



Title	Gyro-Knife
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Reference	Technology Review Report, 006/07, 2007. http://medicaldev.moh.gov.my/uploads/Gyro-Knife.pdf

Aim

To determine the safety, effectiveness, and cost effectiveness of the Gyro Rotating Gamma radiotherapy system (Gyro-Knife) in cancer treatment.

Conclusions and results

No evidence was retrievable on the safety, effectiveness, and cost effectiveness of the Gyro-Knife in treating cancer.

Recommendations

Not recommended until more evidence is available.

Methods

Electronic databases were searched, including PubMed, Ovid, Cochrane Reviews, EBM Reviews for Controlled Trials, Science Direct, Springer Link, FDA website from 2000 to 2007, EU Medicines and Healthcare Products Regulatory Agency (MHRA), CADTH, New and Emerging Health Technology Reports (Ontario), Horizon Scan, and Google and Yahoo for published reports. Information was also gathered through personal communication with local experts and the manufacturer.

The search strategy used the following terms, either alone or in combination: Gyro-Knife, 5th Generation gamma knife, Latest gamma knife, Digital Co-60 Radiotherapy System, Radiosurgery, Rotating gamma knife, accuracy, effectiveness OR efficacy, safety OR safe OR “adverse effect*” OR “harm* effect*” OR toxicity, “cost effectiveness” OR “cost analysis” OR econom*. There were no limitations in the search.

All relevant literature was critically appraised, and the evidence was graded according to the modified Catalanian Agency of Health Technology assessment (CAHTA) scale.

Further research/reviews required

More outcome research is needed to evaluate the safety and effectiveness of the device.