

1: Nippon Rinsho. 2001 Aug;59(8):1624-31.

[Clinical experience of new stereotactic radiotherapy system named CyberKnife]

[Article in Japanese]

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The CyberKnife is a small linear accelerator mounted on a robot. The CyberKnife has the IPS(Image Processing System) that evaluates the patient position during the treatment. If there is any movement of the patient, the robot chases the tumor. Invasive frame to fix the patient skull is not needed. From April 1998 through July 2000, we applied the CyberKnife treatment for 136 sites in 94 patients. Sixty-seven of 136 sites were metastatic brain tumors. Progression-free rate of tumors treated with 24-27 Gy at 3 months after treatment was 89%. There was no severe adverse effects except epilation. The CyberKnife treatment was applied for tumors in the body in USA. It will be available in Japan in near future.

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