

CURRICULUM VITAE**이 태 규****근무처:** 가톨릭의대 의정부성모병원 신경외과 교수

경기도 의정부시 천보로 271

Tel: 031-820-3638

Email: magpie67@catholic.ac.kr

세부전공: 뇌정위기능신경외과, 사이버나이프 방사선수술**학력 사항**

- 1995 가톨릭대학교 의과대학교 학사
- 2003 가톨릭대학교 의과대학교 대학원 석사(신경외과학 전공)
- 2008 가톨릭대학교 의과대학교 대학원 박사(신경외과학 전공)

약력 사항

- 1997-2001 가톨릭대학교 의과대학 강남성모병원 신경외과 전공의 수료
- 2001-2004 가톨릭대학교 의과대학 강남성모병원 신경외과 임상강사(뇌정위기능신경외과)
- 2004 Stanford University, Medical Center Cyberknife Radiosurgery 연수
- 2004-2006 가톨릭대학교 의과대학 강남성모병원 신경외과 전임강사(뇌정위기능신경외과)
- 2006-2008 가톨릭대학교 의과대학 서울성모병원 신경외과 조교수(뇌정위기능신경외과)
- 2008-2010 MayoClinic Rochester MN, USA Movement, Pain and Neural Engineering 연수
- 2010-2012 가톨릭대학교 의과대학 의정부성모병원 신경외과 조교수(뇌정위기능신경외과)
- 2012- 가톨릭대학교 의과대학 의정부성모병원 신경외과 부교수(뇌정위기능신경외과)

활동 사항

- 2005-2007 대한방사선수술학회 총무이사
- 2012-2014 대한신경통증학회 학술이사
- 2012- 대한신경외과학회 수련교육위원, 학회지 심사위원,
- 2012- 대한정위기능신경외과학회 학회지 편집위원
- 2013- 대한신경기능연구학회 교육이사
- 2013-2015 대한통증연구학회 간행위원회 부위원장
- 2014- 대한정위기능신경외과 회원관리이사
- 2014- 대한신경통증학회 교육이사
- 2015- 대한방사선수술학회 특별이사
- 2015- Asian Journal of Pain 편집위원



The CyberKnife[®] Robotic Radiosurgery System

Tae-Kyu Lee, M.D.

Department of Neurosurgery, Uijeongbu St. Mary's Hospital, The Catholic University of Korea

The CyberKnife[®] Robotic Radiosurgery System is a non-invasive alternative to surgery for the treatment of both cancerous and non-cancerous tumors anywhere in the body, including the prostate, lung, brain, spine, liver, pancreas and kidney. CyberKnife[®] is a non-invasive option for patients who have inoperable or surgically complex tumors, or who may be looking for an alternative to surgery. The CyberKnife system's continual image guidance software allows us to deliver high radiation doses with pinpoint accuracy, while automatically correcting for tumor movement. Since radiation beams adjust in real-time to the patient's breathing cycle, there is less damage to surrounding healthy tissue.

Potential benefits of the CyberKnife[®] system include:

First, the CyberKnife[®] System uses image guidance software to track and continually adjust treatment for any patient or tumor movement. This sets it far ahead of other similar treatments. It allows patients to breathe normally and relax comfortably during treatment.

Second, some forms of radiosurgery require rigid head-frames that are screwed into the patient's skull to minimize any movement. The CyberKnife[®] System does not require such extreme procedures to keep patients in place, and instead relies on sophisticated tracking software, allowing for a much more comfortable and non-invasive treatment.

Third, unlike some radiosurgery systems, which can only treat tumors in the head, the CyberKnife[®] System has unlimited reach to treat a broad range of tumors throughout the body, including the prostate, lung, brain, spine, liver, pancreas, and kidney.

And finally, the CyberKnife[®] System's treatment accuracy is unrivaled. Its ability to treat tumors with pin-point accuracy is unmatched by other radiation therapy and radiosurgery systems. The CyberKnife[®] System can essentially "paint" the tumor with radiation allowing it to precisely deliver treatment to the tumor alone, sparing surrounding healthy tissue.

