



CYBERKNIFE® ROBOTIC RADIOSURGERY SYSTEM

Unprecedented Targeting Accuracy Delivered Anywhere in the Body



ACCURAY®

CyberKnife®



ACCURAY®
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From Our President

"Accuray's CyberKnife System offers patient treatment options that, before now, were not available. Accuray has partnered with clinicians, researchers and patients to develop a system that redefines radiosurgery and provides a new standard of patient care. The fact that clinicians the world over have successfully treated tens of thousands of patients is testament to their confidence in the effectiveness of the CyberKnife System."

Euan S. Thomson

Euan S. Thomson, Ph.D.
President and Chief Executive Officer
Accuray Incorporated

DEFINING ROBOTIC RADIOSURGERY

A new paradigm in full body radiosurgery, the CyberKnife® System leads the field with groundbreaking technology.

Unprecedented Targeting Accuracy – Many tumors, even when immobilized, have proven to shift during treatment delivery. Using advanced robotic technology and *continual image guidance throughout the treatment*, the CyberKnife System delivers unprecedented targeting accuracy with the unique ability to automatically correct for intra-fraction target motion—without interrupting the treatment or having to reposition the patient.

Unrivaled Conformality and Dose Gradient – Unconstrained by the clockwise / counter-clockwise gantry rotations of conventional radiotherapy systems, the robotic mobility of the CyberKnife System enables *automated non-coplanar treatment delivery* without clinician intervention or treatment interruption. This capability efficiently enables unrivalled conformality and dose gradient for treating complex targets.

Unparalleled Healthy Tissue Preservation – Without the limitations of conventional respiratory gating and breath-holding techniques, the CyberKnife System delivers *beams that move in real-time with 3D respiratory motion* throughout the respiratory cycle. By dramatically reducing the planning margins to only that which are clinically relevant, the CyberKnife System provides unparalleled healthy tissue preservation.



Optional equipment shown. Accuray reserves the right to update or change these specifications without notice.



Robotic Manipulator – The high precision robotic manipulator capable of delivering repeatable sub-millimeter accuracy, positions the linear accelerator in virtually any direction.



Linear Accelerator – This compact, light weight 6MV X-band linear accelerator with an output of 800 MU/min, precisely delivers highly collimated beams of radiation.



X-Ray Sources – The low-energy X-ray sources generate orthogonal X-ray images to determine the location of bony landmarks, implanted fiducials or soft tissue targets throughout the treatment.



Image Detectors – The flush mounted detectors capture high-resolution anatomical images throughout the treatment. These live images are continually compared to previously generated DRR's to determine real-time patient positioning and target location.



Synchrony® Respiratory Tracking System – Continuously synchronizes beam delivery to the motion of the tumor, allowing clinicians to significantly reduce margins while eliminating the need for gating or breath-holding techniques.



Iris™ Variable Aperture Collimator – Rapidly manipulates beam geometry to deliver up to 12 beam sizes from each LINAC position with characteristics virtually identical to that of fixed circular collimators.



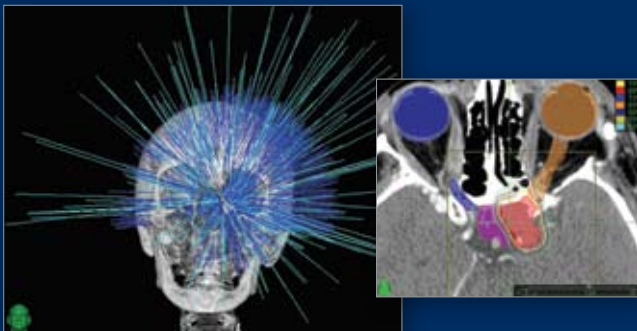
Xchange™ Robotic Collimator Changer – Automatically exchanges collimators robotically, enabling highly conformal treatments delivered with greater efficiency.



RoboCouch® Patient Positioning System – Robotically aligns patients precisely with six degrees of freedom, enabling faster patient setup. The Seated Load option enables simple and comfortable loading of mobility-limited patients.

Intracranial Radiosurgery

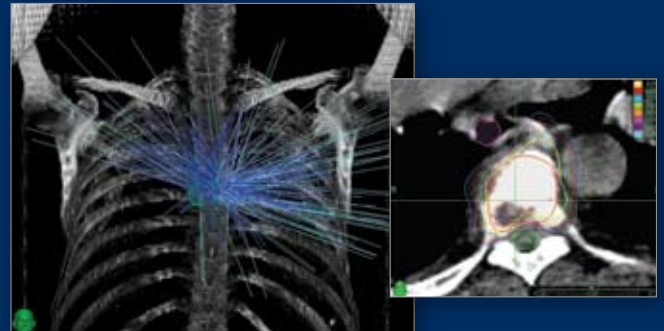
As a completely frameless system, the CyberKnife® System utilizes continual image guidance and automatic targeting corrections to compensate for even the slightest target shift that might occur with non-invasive immobilization. Rendering stereotactic headframes obsolete, the CyberKnife System provides the versatility to efficiently and painlessly deliver both single and multiple fraction intracranial treatments.



Images courtesy of Barrow Neurological Institute

Spine Radiosurgery

Extending the proven benefits of diverse non-coplanar treatment delivery to applications outside of the head, the CyberKnife System automatically delivers hundreds of uniquely angled beams per fraction in routine, daily clinical practice. And with both isocentric and non-isocentric capabilities, the CyberKnife System has an unrivaled ability to precisely sculpt delivered dose around the spinal cord and other sensitive critical structures.



Images courtesy of University of Pittsburgh Medical Center



MultiPlan® Treatment Planning System –

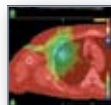
An intuitive workflow-based application designed specifically for radiosurgery, allowing for the simple and efficient creation of even the most complex treatment plans.



Xsight® Lung Tracking System – Directly tracks the movement of lung tumors without fiducials while maintaining precision, reliability and self-adjusting repeatability.*



Xsight Spine Tracking System – Eliminates the need for surgical implantation of fiducials by using the bony anatomy of the spine to automatically locate and track tumors, making radiosurgery more precise and less invasive.



Monte Carlo Dose Calculation – Often considered the gold standard when treating lung tumors, the CyberKnife® System's Monte Carlo Dose Calculation produces results in minutes compared to what commonly requires hours or days with other systems.



4D Treatment Optimization and Planning System – True 4D treatment planning that takes into account not only the movement of the target but also the movement and deformation of the surrounding healthy tissue and critical structures.



Sequential Optimization – An intuitive and intelligent advancement for rapidly developing custom tailored treatment plans specific to the unique clinical characteristics of each patient.

The CyberKnife System and CyberKnife options may not be available in some countries. For a complete list of CyberKnife Systems and options available, please contact Accuray at sales@accuray.com.

** Limited to specific tumor size and location.*

Lung Radiosurgery

Without conventional gating or breath-holding, the CyberKnife System delivers tightly contoured beams that move precisely with 3D tumor motion throughout the respiratory cycle. With this unique capability, margins are limited to only that which are clinically relevant, dramatically decreasing the additional margins required of other systems to account for set-up and treatment delivery inaccuracies.

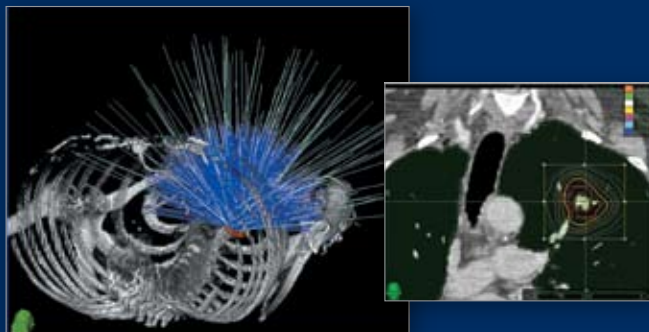
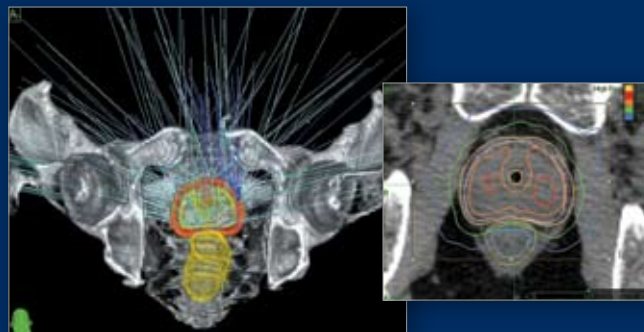


Image courtesy of Georgetown University Hospital

Prostate Radiosurgery

Because the prostate has demonstrated the potential to shift rapidly and unpredictably, the safe delivery of radiosurgery necessitates frequent and repetitive image guidance. With this unique capability, the CyberKnife System can deliver both homogeneous IMRT-style and heterogeneous HDR-style treatments while precisely limiting exposure to the rectal wall and urethra.



Images courtesy of San Diego CyberKnife Centers

ACCURAY INCORPORATED

Our Business Begins with Patients™

Accuray's philosophy, *Our Business Begins with Patients™*, drives the company's commitment to advancing the field of robotic radiosurgery through innovation, while also establishing its products as the standard of care.

Accuray's success is measured by the success of its customers in delivering the most advanced care to their patients. Medical institutions worldwide have expanded their clinical programs using Accuray's CyberKnife® Robotic Radiosurgery System by treating patients that may have been considered untreatable, while building a more comprehensive oncology practice.

To this end, Accuray has developed collaborative partnerships with clinicians, researchers and patients. These partnerships help educate clinicians and patients on the benefits of robotic radiosurgery, enabling Accuray to refine and upgrade its technology based on user and patient feedback. This feedback allows Accuray to develop innovative programs that improve clinician's success while differentiating Accuray from traditional medical device companies.

The result, the CyberKnife Robotic Radiosurgery System, a pain-free treatment alternative for patients that eliminates invasive surgery and results in a significantly improved quality of life for cancer patients the world over.



ACCURAY®

Our Business Begins with Patients™

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