



X SIGHT[®]

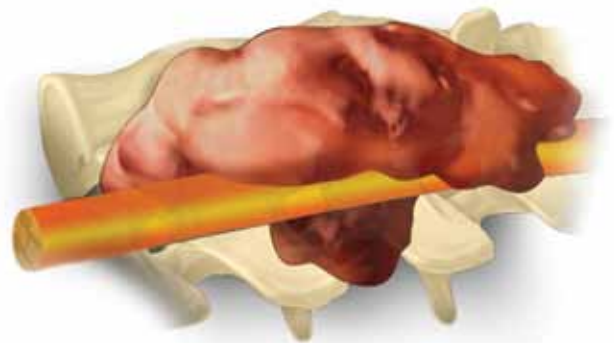
S P I N E T R A C K I N G S Y S T E M



XSIGHT® SPINE TRACKING SYSTEM

XSIGHT CLINICALLY RELEVANT ACCURACY (Errors mm)							
NUMBER OF TRAILS	1	2	3	4	MEAN	STANDARD DEVIATION	
	TARGETING ERRORS (mm)						
X	-0.02	-0.06	-0.24	-0.27	-0.19	0.09	
Y	0.31	0.28	0.37	0.17	0.28	0.08	
Z	-0.08	-0.04	-0.06	-0.42	-0.15	0.18	
TOTAL	0.38	0.29	0.45	0.53	0.41	0.10	

Xsight targeting results from four End- to-End tests using Ball Cube Phantom.

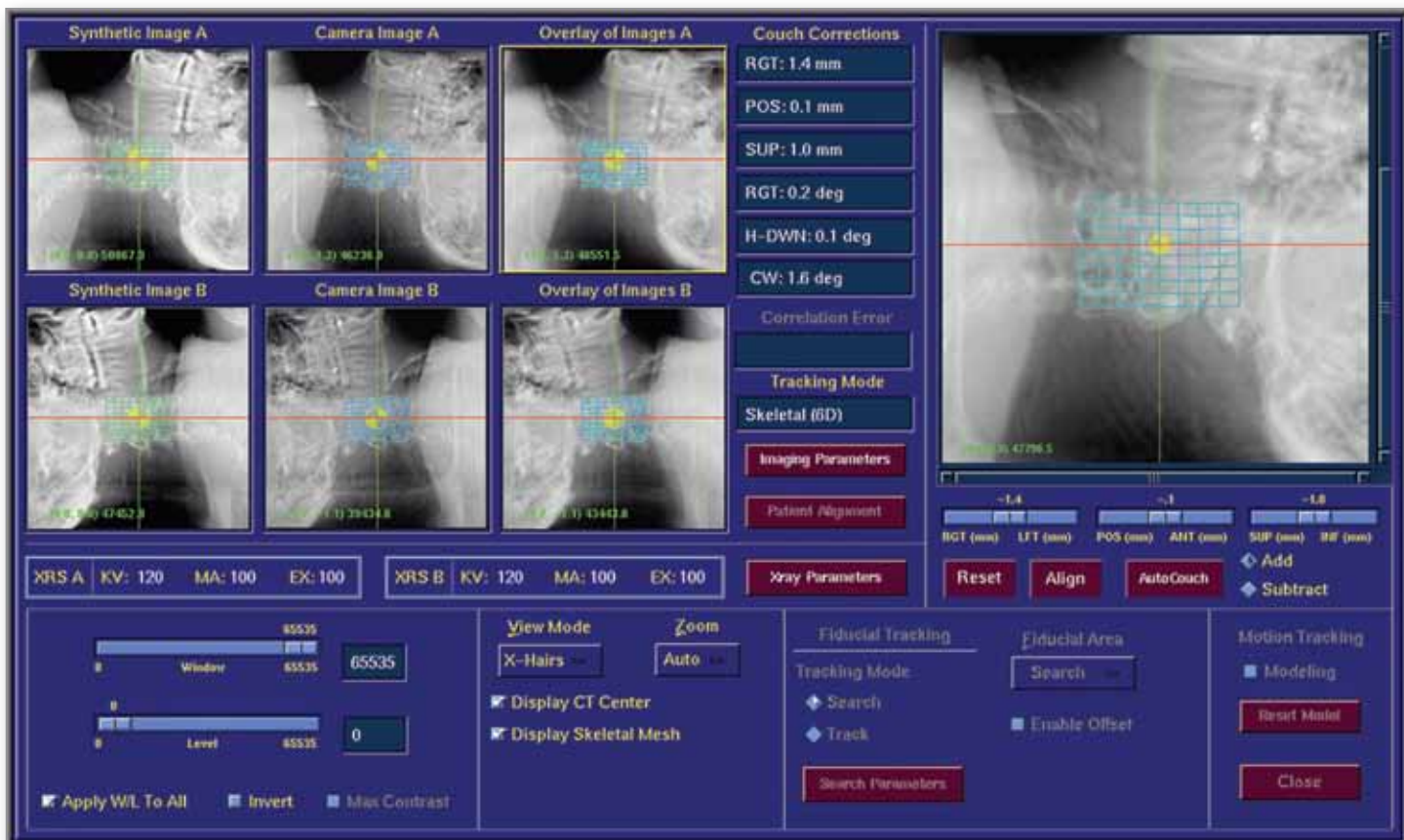


Rendering of complex spinal tumor wrapped around spinal cord taken from an actual patient case.

A breakthrough in tracking technology, Accuray introduces the Xsight® tracking system. The Xsight System is the only system that uses internal anatomy to directly track targets with radiosurgery accuracy and precision, without the need of external frames or implanted fiducials.

Sub-millimeter accuracy with no fiducials

Accuray's Xsight Spine Tracking System eliminates the need for surgical implantation of radiographic markers, or fiducials, in the delivery of spine radiosurgery treatments. The Xsight System registers unique non-rigid and bony anatomy landmarks to track, detect and correct for movement of the spine in real-time throughout the treatment.



Xsight provides sub-millimeter accuracy for tumors close to critical structures as in this case with the spinal cord.

A comprehensive tracking system

A truly easy to use, non-invasive system, the Xsight System provides a highly accurate, comfortable alternative for patients and facilitates faster, less complex treatments for clinicians.

The Xsight System uses advanced image-registration to automatically track lesions or targets in or near spinal structures. This tracking innovation enables neurosurgeons, radiation oncologists and medical physicists to easily treat cancerous and benign tumors without implanting fiducials.

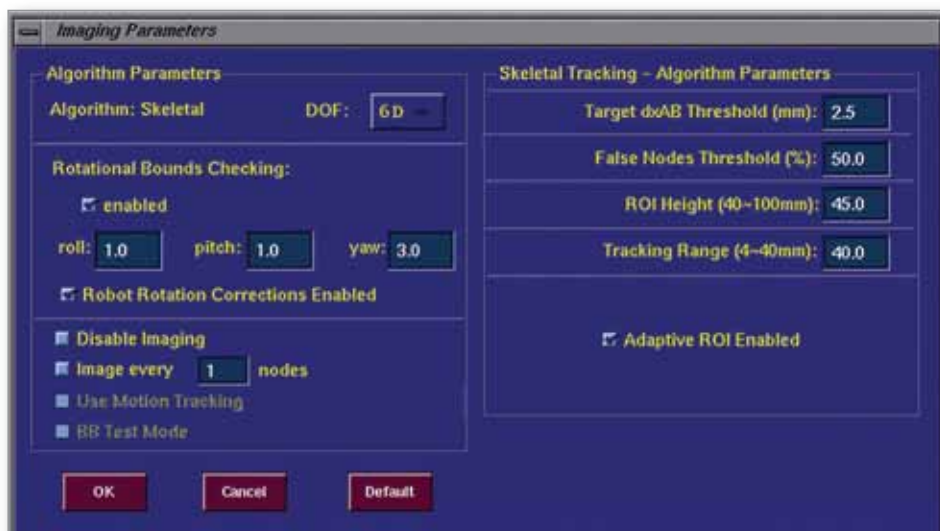
Fully integrated with the CyberKnife® Robotic Radiosurgery System, the Xsight System tracks lesions throughout the entire spinal region including cervical, thoracic, lumbar and sacral tumors accounting for the non-rigid nature of the spine. In addition, the Xsight System offers an array of robust clinical benefits:

- Intelligently tracks, detects, and corrects with continual image guidance throughout the treatment
- Automatically corrects for even the slightest patient or target movement
- Provides ultra-fast image 6D registration
- Eliminates fiducials and frames
- Enables unlimited spinal reach including cervical, thoracic, lumbar and sacral
- Delivers proven sub-millimeter targeting accuracy: mean systemic error of 0.61 +/- 0.27mm; accuracy specification of 0.75mm
- Offers nearly 100% eligibility for all spine cases

XSIGHT SPINE TRACKING SYSTEM



Xsight optimization process for a c-spine case visible from the treatment delivery user interface.



Xsight implementation couldn't be easier. Simply select Xsight Spine Tracking during plan creation and then set the appropriate parameters during treatment delivery as needed.

Extends the benefits of the CyberKnife® System to more patients

With the Xsight Spine Tracking System clinicians now have a highly accurate alternative to fiducial implantation—a time-consuming and invasive procedure. In fact, because it eliminates unnecessary treatment procedures and accelerates clinical processes, the Xsight System enables CyberKnife centers to offer treatment to more patients.

Xsight delivers sub-millimeter accuracy

Recent studies in clinical practice have indicated that the Xsight Spine Tracking System has a system targeting accuracy of better than 0.75mm.

Streamlines clinical processes, the Xsight System intuitively integrates into existing CyberKnife treatment planning and treatment delivery systems—reducing the clinician learning curve and streamlining clinical workflow for improved patient care.

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.



A COMPLETE ROBOTIC RADIOSURGERY SYSTEM

The Accuray CyberKnife® System allows clinicians to provide patients with more accurate treatments and an improved quality of life:

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.

Xsight® Lung Tracking System–Tracks the movement of the lung tumors directly, without fiducials, with accuracy, 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 with sub-millimeter accuracy.

Iris™ Variable Aperture Collimator–

Using tungsten leaves to rapidly manipulate beam geometry, the Iris Collimator enables treatments of unrivaled conformality and unparalleled preservation of healthy tissue.

Xchange™ Robotic Collimator Changer–

Automatically exchanges collimator sizes, allowing for highly conformal treatments to be delivered more efficiently.

RoboCouch® Patient Positioning System–

Robotically aligns patients accurately with six degrees of freedom, reducing patient setup times and enabling faster treatments.

Linear Accelerator–Light weight 6MV X-band linear accelerator with an output of 800 MU/min, accurately delivers highly collimated beams of radiation providing superior conformality when treating patients.

MultiPlan® Treatment Planning System–

This intuitive workflow-based workstation designed for radiosurgery, enables the creation of plans that have excellent conformality and coverage with steep dose gradients.

Sequential Optimization–With our user-defined, sequentially prioritized planning objectives, treatment plans are custom tailored to the unique clinical characteristics of each patient.

4D Treatment Optimization and Planning System–

Takes into account not only the movement of the target but also the movement and deformation of the surrounding tissue.

Monte Carlo Dose Calculation–Often considered the gold standard dose calculation, the CyberKnife System's Monte Carlo Dose Calculation produces results in minutes compared to what typically requires hours or days with other systems.

CYBERKNIFE® SYSTEM HIGHLIGHTS

- **Continual image guidance**

Without the need for staff intervention or treatment interruption, the CyberKnife's revolutionary image guidance technology continuously works in concert with the treatment delivery system to automatically track, detect and correct—managing even the slightest target movements throughout the entire treatment.

- **Flexible robotic maneuverability**

Driven by continual imaging and intelligent motion corrections, the CyberKnife's robotic manipulator automatically positions the linear accelerator to an unprecedented range of positions—allowing for access to virtually any tumor from any direction.

- **Dynamic motion targeting**

With constant updates of target position throughout the respiratory cycle, the CyberKnife System delivers beams synchronized in real-time to targets that move with respiration while adapting to changes in breathing patterns—delivering highly conformal radiation with considerably smaller margins and unprecedented accuracy.

- **Unrivaled dose conformality**

Unconstrained by clockwise/counter-clockwise gantry rotations, the robotic mobility of the CyberKnife System delivers diverse non-coplanar and non-isocentric treatments to precisely sculpt radiosurgical doses to the unique contours of the target.

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.



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