

QA for the Accuray CyberKnife® System

Sun Nuclear offers a range of independent QA solutions for this robotic treatment delivery system.



ACCURAY

Patient QA

SRS MapCHECK™ & StereoPHAN™

Enabling fast, film-less Patient QA

Supporting Literature:
Characterization and Validation of SRS MapCHECK for Patient Specific QA on CyberKnife M6

D. Parsons, et al., UT Southwestern Medical Center, AAPM 2019

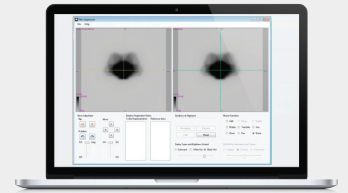
User Perspective:

"Our SRS QA takes 7 hours for a 7 isocenter plan. Using SRS MapCHECK, we would get back 5+ hours per patient."
 – Joey Spring, St. Joseph's/Candler, Savannah, GA



SRS Film QA

Co-developed with Accuray



Machine QA

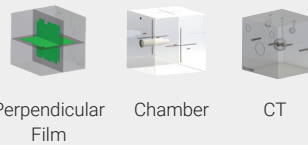
SRS MapCHECK™



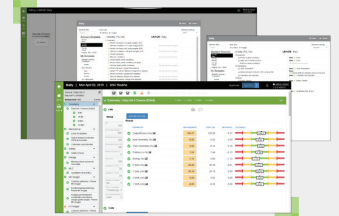
New Machine QA capabilities with SNC Patient™ software v8.5:

- MLC QA Garden Fence Test
- Iris Beam QA Test
- Daily Targeting Accuracy QA (TAQA) Test
- MLC and Fixed Cone Beam QA

StereoPHAN™ & Inserts



SunCHECK™ Machine



- Log tasks within module
- CyberKnife Daily QA Template available

Dosimetry

3D SCANNER™ & 3D TPR™

Supporting Literature:
Continuous Versus Step-by-step Scanning Mode of a Novel 3D Scanner for CyberKnife Measurements

M. Al Kafi, U. Mwidu, B. Moftah, Saudi Arabia Applied Radiation and Isotopes, Vol 105 (2015) 88-91



EDGE Detector™

Supporting Literature:
A Dual Detector Method for Determining CyberKnife Total Scatter Factors (TSF)

J Szanto et al., Med. Phys. 38, 3622 (2011)



PC Electrometer™

