



NOVA™

FIDUCIAL MARKER



NOVA™ — Illuminates the Void

True MRI Visibility – Stop Relying on Signal Voids

Stop relying on hard to identify “black holes” (signal voids or artifacts) created by metallic fiducial markers when imaged with MRI.

NOVA is an innovative new multimodal fiducial marker that uniquely offers a precise, positive MRI signal, as well as a correlated CT image.

Creates a precise MRI and CT reference to guide radiotherapy and proton therapy

EXCELLENT IMAGING

- Does not depend on an MRI signal void (i.e., artifact) as is common with metal-based fiducial markers
- Minimal artifacts, enabling physicians to contour small lesions
- Positive image clearly visible on CT, kV, CBCT, and MRI (phantom images shown below)

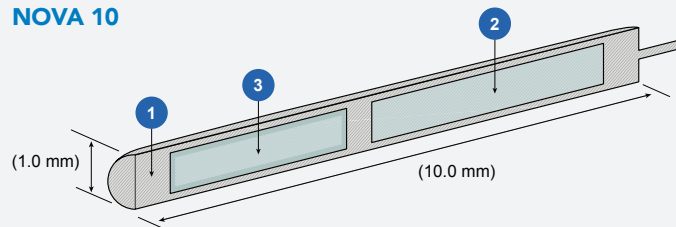


- Maximizes MRI utility for radiotherapy and proton therapy

CONVENIENT AND EASY TO USE

- Easy to use for imaging of soft tissue sites
- MRI and CT for multi-modality image registration and treatment planning
- One marker suitable for multiple treatment paths
- Low proton beam dose perturbation

NOVA 10



1. Polyether ether ketone (PEEK)
2. C4 solution
3. CT insert



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NOVA™ Proton Beam Dose Perturbation¹

Orientation	Perturbation Appearing Depth		Maximum Perturbation and Depth		Total Perturbation Depth	
	Perpendicular	Parallel	Perpendicular	Parallel	Perpendicular	Parallel
	-1.0% at 2 mm	-6.7% at 0 mm	-2.6% at 5 mm	-7.8% at 2 mm	10 mm	10 mm

NOVA vs Traditional Metallic Markers

	NOVA	Metallic
MARKS OF EXCELLENCE		
Positive MRI signal	●	
No metal artifacts	●	
Minimal streak artifacts in CT	●	
Minimal streak artifacts in CBCT	●	
X-ray imaging	●	●
Designed with synthetic CT in mind	●	
Minimal proton beam perturbation	●	



C4 Imaging develops medical devices that enable clinicians to more accurately perform image-guided procedures. The company's proprietary technology, C4, has been developed as Sirius®, a positive-signal MRI marker designed to improve quality assessment after prostate cancer treatment with brachytherapy, and Orion™, an MRI marker that enables accurate MRI-based pre-treatment planning for cancer patients being treated with high dose rate (HDR) brachytherapy. C4's multimodality fiducial marker, NOVA allows the benefits of positive-signal MRI treatment management to be offered to patients who receive radiotherapy.

Reference: 1. Data on file.

Sirius is a registered trademark, and NOVA and Orion are trademarks of C4 Imaging LLC.

Learn more at:
www.c4imaging.com