

Space0AR Vue™ Hydrogel

# Treatment Planning Guide

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## Considerations for photon beam treatment

### How does SpaceOAR Vue Hydrogel's density compare to SpaceOAR™ Hydrogel?

There is no significant difference between SpaceOAR Hydrogel and SpaceOAR Vue Hydrogel in terms of both the mass density (1.03 gm/mL) and relative electron density (1.03).<sup>1</sup>

### What is the attenuation of SpaceOAR Vue Hydrogel?

SpaceOAR Vue Hydrogel has a HU of approximately 300, but the electron density is 1.026 relative to water, and the mass density is 1.03 gm/mL. The reason the densities are lower than anticipated based on the HU is due to the K-edge absorption of photons for iodine in the kV range of the CT scanner. Having a K-edge in this range is uncommon for biomaterials, which is why the standard conversion from HU to density is not accurate.<sup>1</sup>

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## Considerations for proton beam treatment

### What is the estimated relative stopping power of SpaceOAR Vue Hydrogel for proton treatment?

Proton relative stopping power within 2% of water (estimated "effective HU" of approx. 20, similar density of the prostate and surrounding tissue).<sup>1</sup>

### Does any density override need to be applied for proton treatment planning?

On CT, the effect on proton range is overestimated by 12% and this needs to be corrected for in planning with a proper override applied.<sup>1</sup>

To learn more about SpaceOAR Vue Hydrogel, contact your Boston Scientific representative or visit [bostonscientific.com/spaceoarvue](https://www.bostonscientific.com/spaceoarvue).

1. Data on file with Boston Scientific.

SpaceOAR and SpaceOAR Vue Hydrogels are intended to temporarily position the anterior rectal wall away from the prostate during radiotherapy for prostate cancer and in creating this space it is the intent of SpaceOAR and SpaceOAR Vue Hydrogels to reduce the radiation dose delivered to the anterior rectum.

Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions and potential adverse events.

As with any medical treatment, there are some risks involved with the use of SpaceOAR and SpaceOAR Vue Hydrogels. Potential complications associated with SpaceOAR and SpaceOAR Vue Hydrogels include, but are not limited to: pain associated with SpaceOAR and SpaceOAR Vue Hydrogels injection; pain or discomfort associated with SpaceOAR and SpaceOAR Vue Hydrogels; needle penetration of the bladder, prostate, rectal wall, rectum or urethra; injection of SpaceOAR and SpaceOAR Vue Hydrogels into the bladder, prostate, rectal wall, rectum or urethra; local inflammatory reactions; infection; injection of air, fluid or SpaceOAR and SpaceOAR Vue Hydrogels intravascularly; urinary retention; rectal mucosal damage, ulcers, necrosis; bleeding; and rectal urgency. URO-989811-AA

Caution: U.S. Federal law restricts this device to sale by or on the order of a physician.

CAUTION: The law restricts these devices to sale by or on the order of a physician. Indications, contraindications, warnings and instructions for use can be found in the product labeling supplied with each device. Information for use only in countries with applicable health authority registrations. This material not intended for use in France.

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URO-856307-AB JUN 2021