23 July 2000

Complete System for Prostate Cancer Treatment with Conformal Brachytherapy.

Veenendaal, The Netherlands, July 23, 2000, Nucletron B.V. today announced: The Complete System for Prostate Cancer Treatment with Conformal Brachytherapy at the World Congress on Medical Physics and Biomedical being held in Chicago, Illinois.

Nucletron’s Prostate Cancer Package provides all the necessary elements for Conformal Brachytherapy including: treatment planning, image capturing, quality assurance tools, clinically designed applicators (interstitial needles and templates) and high dose brachytherapy treatment equipment.

Nucletron has the world’s most complete HDR Brachytherapy System including state of the art treatment planning and the largest line of applicators and accessories.

- PLATOcomplete® Brachytherapy Remote Afterloading: Nucletron’s conformal brachytherapy software provides an optimized 3-D calculation and visualization which automatically targets the dose to the prostate volume. The image based planning generates a 3D body image to immediately visualize the dose to critical organs. A unique dose verification to point feature provides easy control and manipulation of dose to organs. The information is automatically transferred to the Nucletron Remote Afterloading equipment for safe and effective treatment of the patient.
- PLATOcomplete® Brachytherapy Seeds: The fast image-based pre & post –planning software with reconstruction and dose visualization from ultra-sound or CT images, for conformal prostate treatment with permanent Iodine or Palladium seeds. Nucletron provides 3D calculation and visualization of the prostate volume and critical organs for accurate implantation.
- PLATOcomplete® Ultra-Sound Image Capture System. This stand-alone mobile ultra-sound image acquisition system can be used with any ultra-sound machine supporting standard video outputs. Nucleation’s image capture system directly exports to the PLATOcomplete® system or treatment planning or image storage and archiving.
- PLATOcomplete® Evaluation Tools: Nucletron provides the most extensive and unique tools for clinical evaluation: Comprehensive Dose Volume Histograms for the prostate and critical organs to insure volume coverage; The ability to combine pre and post prostate seed planning for evaluation of implant effectiveness; Ability to combine the 3D brachytherapy treatment plan with PLATOcomplete® External beam (including Inverse Treatment Planning) for a unique composite of the patients overall treatment regime. Nucletron’s state-of the art evaluation tools are essential for conformal treatment of prostate cancer.
- Prostate Applicators including Nucletron’s unique CET Prostate Template™ and ProGuide™Needles. The reusable CET template, developed in co-operation with California Endotherapy in Oakland, California is clinically designed for conformal treatment of the prostate volume. It provides peripheral loading while sparing the urethra and the rectum.

"The C.E.T. prostate perineal template is designed to achieve optimal catheter position for temporary afterloading prostate brachytherapy. The peripheral guides conform to prostate capsular anatomy and the central guides avoid the urethra. The arching posterior guides permit placement just within the posterior aspect of the prostate to avoid the anterior rectal wall and to permit access to the seminal vesicles." D. Jeffrey Demanes, M.D., Director California Endocurietherapy Cancer Center, Oakland, CA.

The ProGuide plastic needles are available in multiple lengths and feature a "source-forward tip" that allows placement of the first source position at the very end of the needle therefore providing adequate coverage of the prostate volume with less possibility of bladder wall injury. Nucletron is the only vendor that offers these needles.

- Quality Assurance tools for conformal radiation brachytherapy includes: Source Position Check Rulers
for measurement of programmed distal position; an Autoradiographic Check Device to assist in the verification of source position; X-Ray Markers which indicate the source positions on treatment planning radiographs as they are coded for easy catheter identification; and Source Dosimetry Systems for source commissioning.

Nucletron’s microSelectron HDR- High Dose Rate Remote Afterloading system is the clinical choice worldwide for remote afterloading brachytherapy. Nucletron’s afterloaders have the most advanced safety features and most flexible source cable allowing reliable use day after day.

The Complete System for Prostate Cancer Treatment with Conformal Brachytherapy from Nucletron is available and in daily clinical use world-wide.

Nucletron B.V., Veenendaal, The Netherlands, is a worldwide leader in radiotherapy systems, and specializes in some of the most innovative products used for cancer treatment. The company has 11 offices worldwide, including its corporate headquarters in The Netherlands. Nucletron is a world leader in remote afterloading brachytherapy for 25 years., Nucletron B.V. is a subsidiary of Delft Instruments, an international group of companies with 1100 employees and annual sales of more than NLG 400 million.