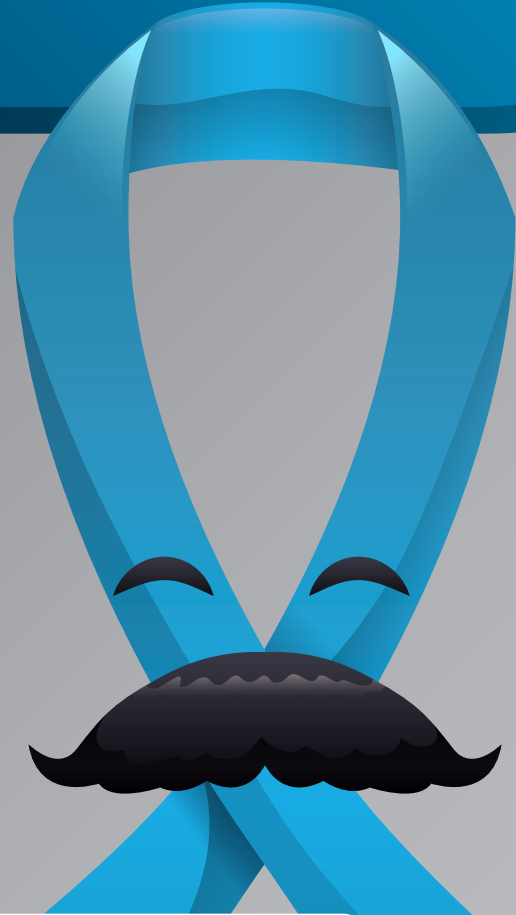


Urology Clinic

FUSION BIOPSY IN THE DIAGNOSIS OF PROSTATE CANCER

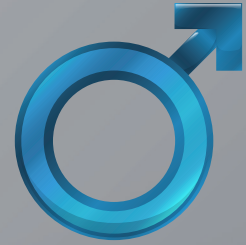


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How is it Performed?

MRI scanning is performed to set prostate boundaries and tumor location is determined. Then, obtained data is then sent digitally to the biopsy department. Although the method changes between devices, three-dimensional ultrasound is performed and this is combined with MRI findings. The compiled MRI and ultrasound are then used for needle guidance during biopsy sample collection.

Prostate cancer prevalence is increasing every day; latest technology diagnostic methods like Prostate Fusion Biopsy gives significant hope. Previously, prostate gland sample collection used to be performed blindly, however, with the Prostate Fusion Biopsy technology; biopsy can be performed by targeting the suspicious area, which is detected via MRI scanning. Treatment can be planned more accurately by making a more accurate diagnosis.

What are the Advantages?

Instead of previous blind biopsy of the prostate gland, it enables the biopsy to be performed by visualizing the lesion or lesions. This way, the detection probability of lesions, which were otherwise missed in blind biopsy, is increased and treatment delays are prevented.

The efficiency of today's standard prostate cancer diagnostic method is limited. The prostate biopsy sensitivity in series, created comparatively with the series, is around fifty percent. Approximately one in every three patients is forced to undergo biopsy within 5 years due to this uncertainty and tumors are detected in 13-41% of these patients. Biopsy with more sample collection is recommended to overcome these problems, however, in such biopsies, the likelihood of detecting clinically insignificant tumors increases and therefore there is an increased risk of unnecessary treatment.

Artemis MRI Ultrasound Fusion Biopsy technology, a target-oriented biopsy method used in Liv Hospital, is one of the most important developments of recent years. The underlying concept of the Prostate Fusion Biopsy technology is to combine the advantages of MRI and real-time ultrasound imaging by using the software records of both images.

