## PUBLICATIONS

More than 60 peer-reviewed publications and numerous presentations at leading scientific conferences have validated the accuracy, usability, and clinical advantages of KOELIS® technology.

### PRECISION MATTERS IN MRI TARGETED BIOPSY

CORNUD et al., Radiology. 2018 May;287(2)



This study measures the precision in the placement of a biopsy needle in an MRI target through MRI/TRUS fusion guidance using Koelis technologies compared to cognitive fusion.

#### Results

Cores obtained with the fusion technique achieved a higher precision than did cores obtained with the cognitive technique 2.8 mm vs 7.1 mm.

Fewer cancers were detected with the cognitive technique than with the fusion technique

### ACCURACY OF KOELIS FUSION BIOPSY (2115 Patients)



This study assesses the accuracy of KOELIS fusion biopsy for the detection of prostate cancer and clinically significant prostate cancer in everyday practice.

#### Results

Prostate cancer was detected in 31%, 66% and 89% of patients with lesions scored as Prostate Imaging Reporting and Data System 3, 4 and 5, respectively.

### TRANSPERINEAL BIOPSY AFTER TRANSRECTAL

COVIN et al., World Journal of Urology 2018 Aug 25



#### Results

Subsequent re-evaluation of cancer volume and grade switched a majority of patients towards higher-risk groups and treatments with curative intent.

KOELIS, The Prostate Care Company, has assisted urologists and radiologists from around the world in their routine clinical practice since 2006, providing the latest technology for personalized prostate cancer planning and management, from biopsy to active surveillance and treatment.

Focused on developing advanced, targeted and less invasive solutions, KOELIS is committed to creating and bringing to the market a new paradigm in prostate cancer care, where physicians can offer the most personalized answers to their patients, avoiding any under or overtreatment and preserving the quality of life. Thanks to cutting-edge imaging tools like Trinity® cartographer, which combines multiple imaging modalities with full 3D ultrasound, any suspicious lesion is characterized in a detailed 3D prostate map, offering a comprehensive and multiparametric approach and enhancing diagnostic confidence.

the Middle East.



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KoelisBx

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©2019 KOELIS All Rights Reserved. TRINITY® is a medical device CE<sub>0450</sub> (class IIa) TRINITY® is indicated to generate, visualize and record, 2D and 3D ultrasound images, including particular features in multimodal image fusion and 3D prostate mapping.

KOELIS Reserves the right to modify the design, packaging, specifications and features shown herein, without prior notice or obligation. Manufacturer: Koelis SAS, France - Please read user manual carefully Caution : Federal (USA) Law restricts this device to sale by or on the order of a physician.



#### "Health innovation as a passion"

The team at KOELIS innovates every day in collaboration with world-renowned universities and hospitals to offer physicians new advancements in imaging and a greater field of view a must-have in active surveillance and targeted treatment. Based in Grenoble and Boston, KOELIS technology has been featured in more than 60 clinical publications and treats more than 250,000 patients worldwide, including patients in Europe, United States, Canada, Japan, Australia, South America, and





# STANDARD OF CARE IN FUSION PROSTATE BIOPSY

KOELIS, the global leader in MRI/Ultrasound Prostate Fusion Biopsy has developed Trinity®, a fully integrated platform specifically created for personalized prostate care. Koelis' solution enables the physician to pinpoint with exact precision MRI lesions and record targeted and systematic biopsy locations on a digitized 3D patient-specific prostate map.





## PRECISION

Powered by the patented and clinically validated Organ-Based Tracking® (OBT) fusion technology, a targeted biopsy can easily be performed under local or general anesthesia with a 2.3mm target accuracy<sup>1</sup>

Elastic Fusion + OBT Fusion = 2.3mm Accuracy

## FULLY INTEGRATED

Trinity® is effectively integrated within the health system, fostering multidisciplinary communication for better prostate cancer detection, management, and patient monitoring.

## <u>EFFECTIVENESS</u>

Freehand, user-friendly and with minimal instrumentation, Trinity® increases productivity while improving the patient's comfort in both hospital and office settings.



20 min procedure



## INTUITIVE, GUIDED WORKFLOW FOR TRANSRECTAL OR TRANSPERINEAL INTERVENTIONS

Easily integrated in routine clinical practice, TRINITY® supports both transrectal and transperineal sampling approaches, even under local anesthesia. Quality control is guaranteed in both biopsy methods, thanks to a simple interface that improves precision while saving time.



**1. MRI & US CONTOUR** After reading the imaging modality, suspicious lesions can be easily and precisely defined in 3D before the intervention.



#### 4. REVIEW & 2ND LOOK

KOELIS allows fusing different exams at the same time for a second intervention. Biopsy becomes repeatable and targeted. A must-have for active surveillance and treatment follow-up!



#### 2. ELASTIC FUSION

Elastic Fusion technology enables two imaging modalities to be precisely superimposed, showing the target in a 3D prostate shape. Images as MRI or PET are smoothly deformed so anatomical points of both images match accurately.



#### 3. 3D CARTOGRAPHY

The exclusive Organ-Based Tracking® fusion technology displays the exact needle position in a 3D mapping scheme for precise visualization. Very useful for further personalized prostate cancer management and controlled monitoring of the disease.

### **DO IT YOUR WAY** CHOOSE THE BEST METHOD SUITING YOUR CLINICAL NEEDS FOR OPTIMAL RESULTS

### PERINE FOR TRANSPERINEAL APPROACH

Trinity<sup>®</sup> Perine is the first freehand, automated system for a 3D transperineal prostate approach. Thanks to its exclusive technologies, needle guides, and the removal of the stepper, interventions are simple and accurate.

#### Suitable with Local and General Anesthesia





### RECFIRE FOR TRANSRECTAL APPROACH



The traditional transrectal method is reinvented with Trinity<sup>®</sup> Recfire. Thanks to KOELIS' Full 3D Ultrasound End-Fire probe and Organ-Based Tracking<sup>®</sup> fusion technology, a spatial distribution of biopsy cores are visualized in real-time and stored over a 3D prostate cartography. No problem in case of patient movement, the organ's position is tracked in order to compensate for prostate deformation and patient motion. As result, excellent biopsy's accuracy is assured.



### STEADY PRO

The KOELIS compact and light probe holder makes it possible to manipulate KOELIS probes with six degrees of freedom.

Steady Pro<sup>®</sup> mitigates everyday problems, such as movement restrictions or discomfort, as it helps to reach and maintain the best probe positioning for a maximized target approach