

# See Beyond Prostate Biopsy.



**KOELIS Trinity<sup>®</sup>**  
OBT fusion<sup>®</sup> Prostate Biopsy

# Confidence from diagnosis to treatment

Prostate cancer care relies on the accuracy and reliability of diagnosis, but today traditional prostate biopsy is performed by simple ultrasound, a blind procedure that can result in under or over treatment. KOELIS offers an all-in one solution providing accuracy and reliability at every step of the prostate cancer journey from biopsy and active surveillance to treatment and follow-up.



## Compact. Precise. Intuitive.



### Compact all-in-one system

Mobile, integrated ultrasound system, and without any extra instrumentation, KOELIS Trinity<sup>®</sup> effectively incorporates into any clinical practice.

Transrectal

Outpatient

Transperineal

Local Anaesthesia



### Precise diagnosis

Clinical accuracy is at the heart of our technology. Our 3D transducers combined with exclusive OBT Fusion<sup>®</sup> technology detects and automatically compensates the slightest patient movement and prostate deformation for accurate guidance and recording of the procedure.

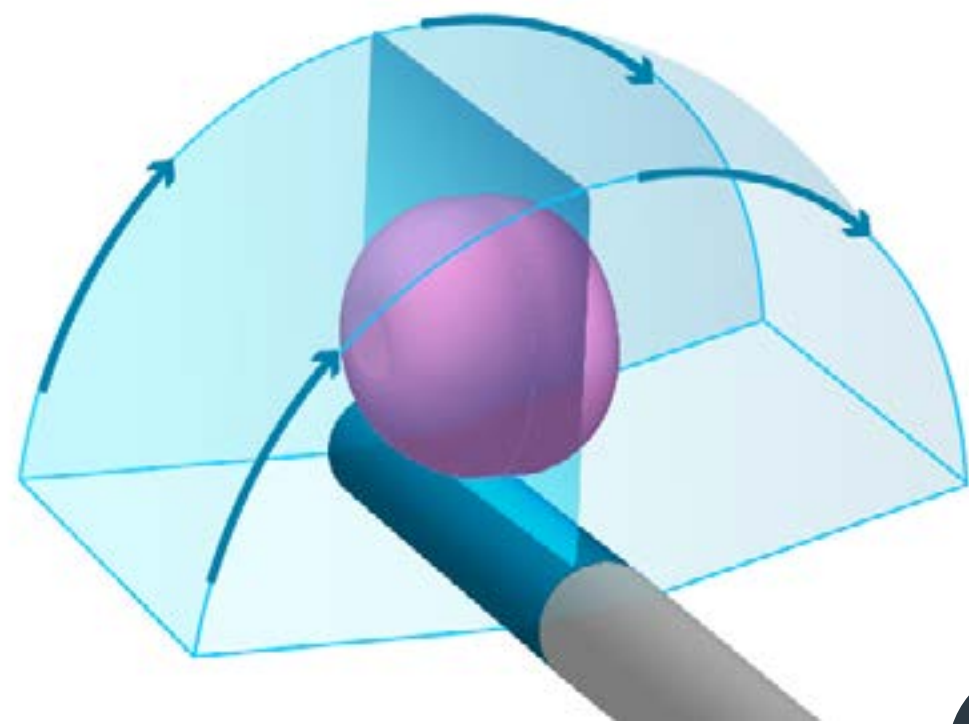


### Intuitive interface

KOELIS Trinity<sup>®</sup> innovative and intuitive interface elevates fusion biopsy to new levels of productivity by making exams faster, accurate and reliable.

# Real-time 3D ultrasound transducer

KOELIS 3D transducer achieves full prostate acquisition in less than 3 seconds without probe movement, avoiding artifact and minimizing MRI/US fusion errors.



3D scan of the prostate is performed in less than 3 second without any artifact.

 No stepper

 No calibration

 Automatic 3D scan

 3 second volume acquisition

## What is OBT Fusion<sup>®</sup> ?

Unlike others technologies that track the movement of the probe (robotic technology or electromagnetic sensors), OBT Fusion<sup>®</sup> (Organ-Based Tracking) tracks the movement of the prostate. Automatic fusion identifies and compensates for movement or prostate deformation, guaranteeing precise accuracy.

 **Sensor & Stepper Free**

By eliminating electromagnetic sensors and probe tracking the risk of error is reduced resulting in maximized accuracy and reliability

 **Automatic Adjustment**

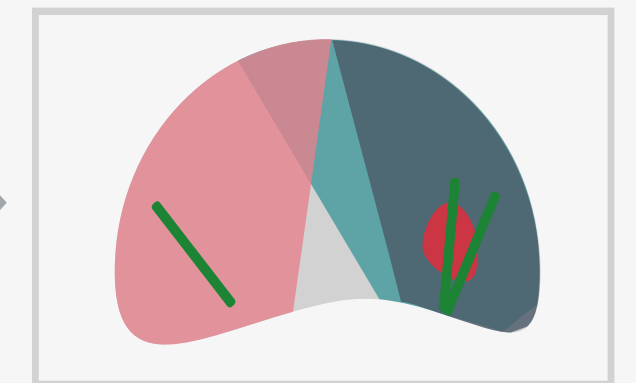
No adjustment or confirmation of the contour is needed during the workflow allowing you to stay focus on biopsy procedure.

3D REFERENCE VOLUME

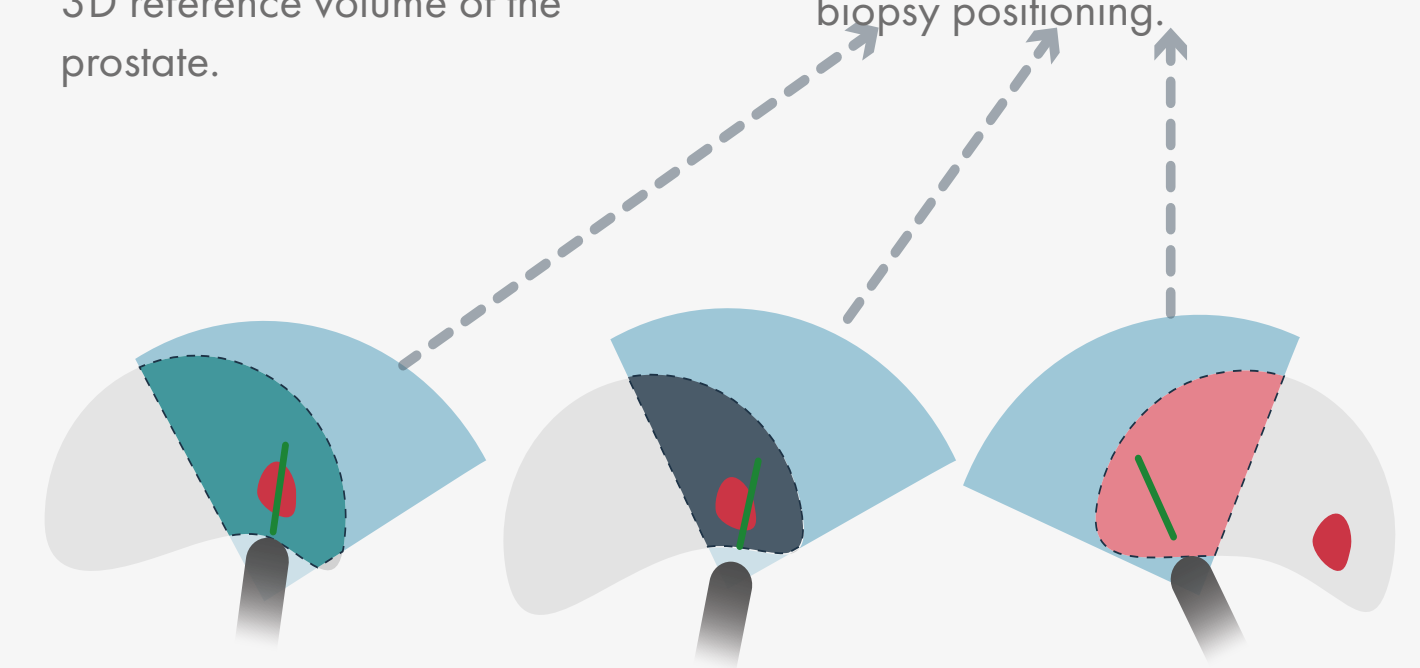


A 3D scan of the prostate is taken at the beginning of the procedure to create a 3D reference volume of the prostate.

3D CARTOGRAPHY



A 3D scan is taken with each puncture and fused with the reference rendering to indicate biopsy positioning.



Biopsy 1  
3D ultrasound Scan

Biopsy 2  
3D ultrasound Scan

Biopsy 3  
3D ultrasound Scan

# Simplicity with Every Step

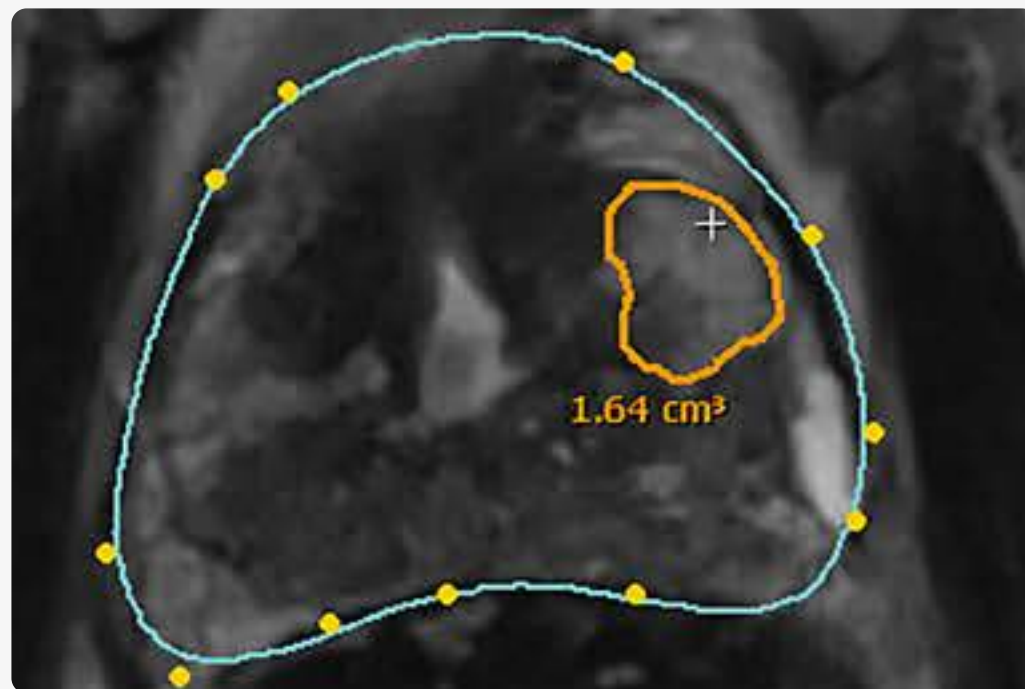
Easily integrated to current clinical workflow, thanks to exclusive technology and step by step guided workflow, resulting in simple, short, and precise interventions.

🕒 3min

## PRE-BIOPSY

### MRI Preparation

Suspicious lesions are easily defined and contoured on KOELIS Trinity® or a dedicated software. Once completed, MRI will be fused with 3D ultrasound image thanks to elastic fusion.

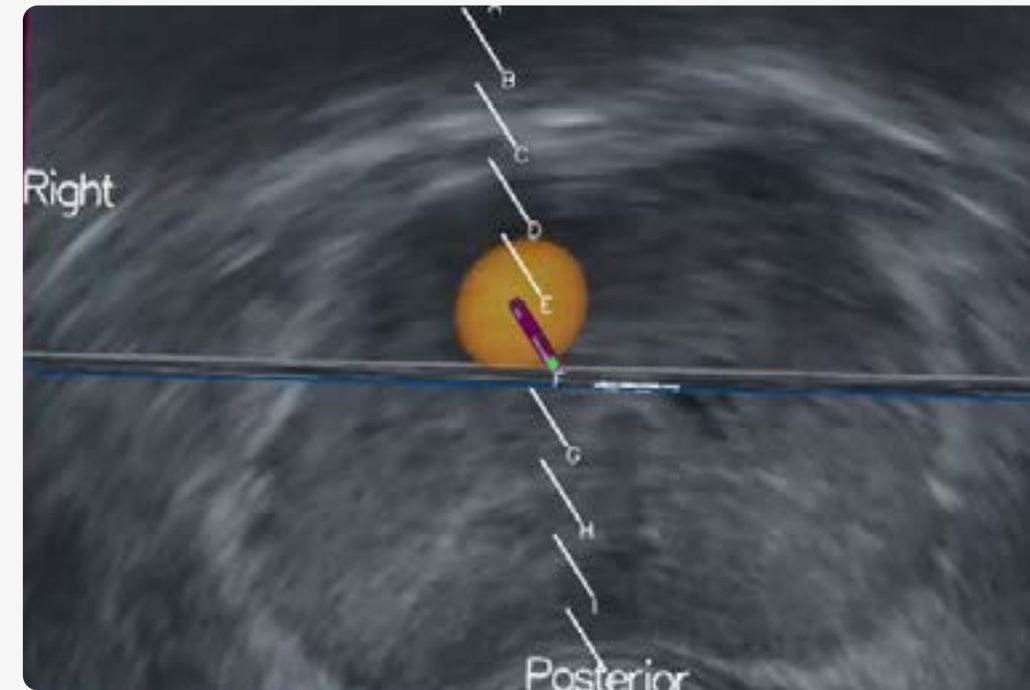


🕒 10 min

## BIOPSY PROCEDURE

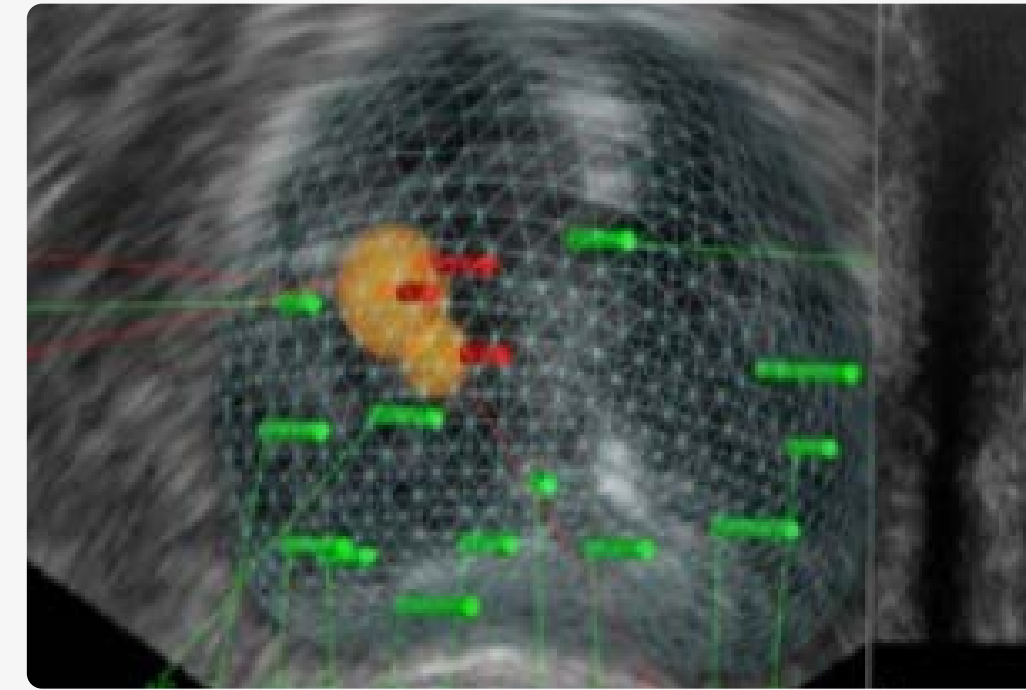
### Biopsy guidance

OBT Fusion® technology allows visualization of core location before sampling as well as accurate recording of core location after sampling.



### 3D Cartography

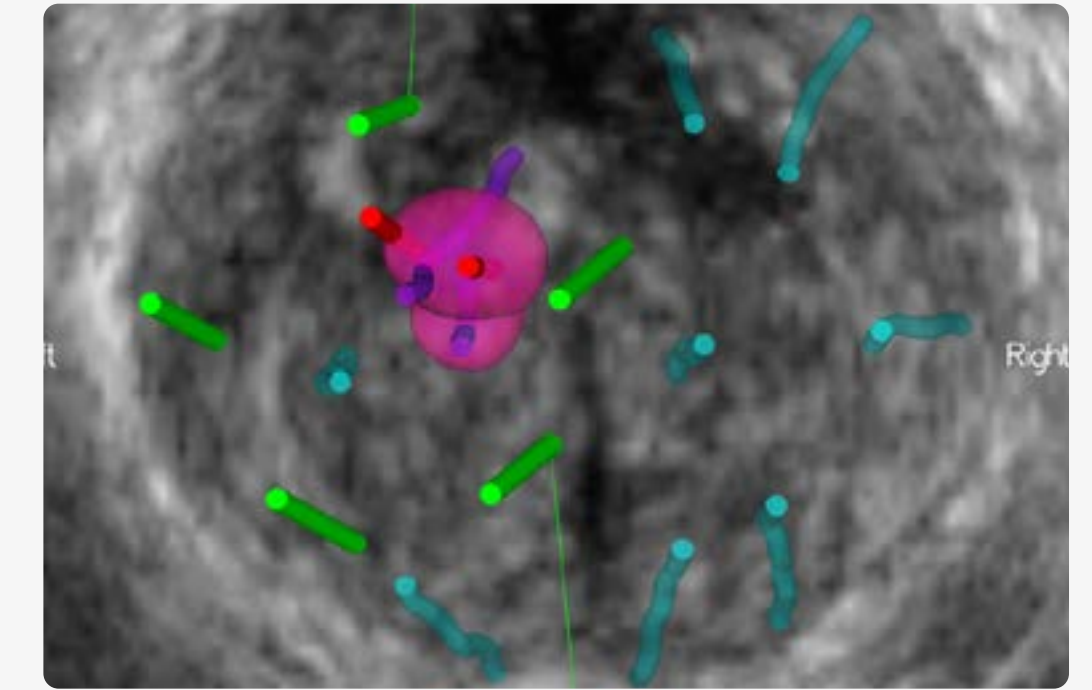
All information is recorded in a patient specific 3D map, ready to be completed with histopathology results and post-intervention MRI.



## POST-BIOPSY

### Re-biopsy & Treatment

KOELIS Trinity® brings quality control to active surveillance and treatments. Fusion of previous exam on the same 3D cartography allows repeat biopsy in prior sampled areas or treated regions and if needed, additional post procedure.



1st Biopsy Exam      2nd Biopsy Exam



## Trusted by experts

KOELIS technology for prostate biopsies is now installed and used routinely in more than 300 hospitals worldwide. Over 350,000 men have received a better standard of prostate diagnosis thanks to leading physicians.

«KOELIS platform is the only one that combines ease of use, accuracy and ergonomics. Other platforms may meet one or two of these important aspects, but none can match the KOELIS platform on all three fronts.»

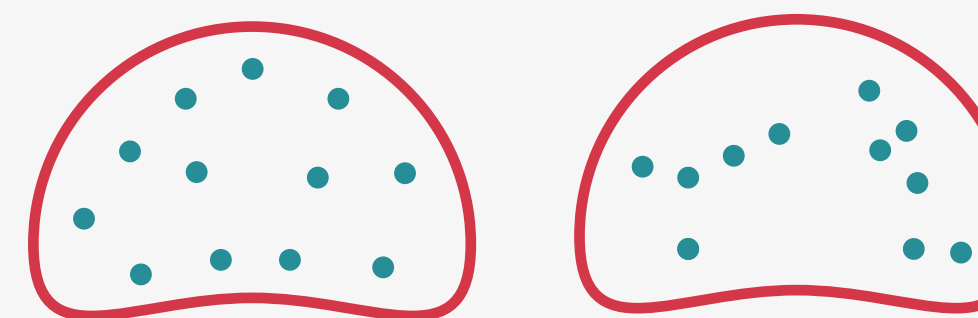
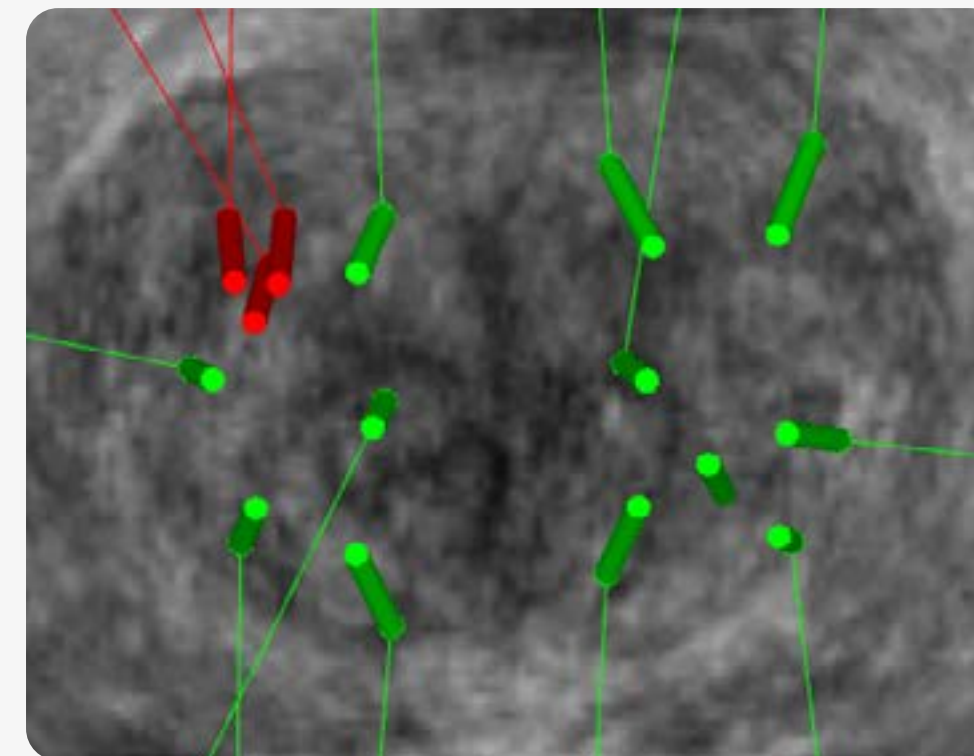
Quoc-Dien Trinh, MD - Boston MA

# Scientific Results

At KOELIS we pride ourselves on accuracy and repeatability, validated by more than 80 publications.

## SYSTEMATIC BIOPSY

Even without the use of MRI, Koelis Trinity® enables optimal spatial distribution of biopsy cores allowing better cancer detection rate.



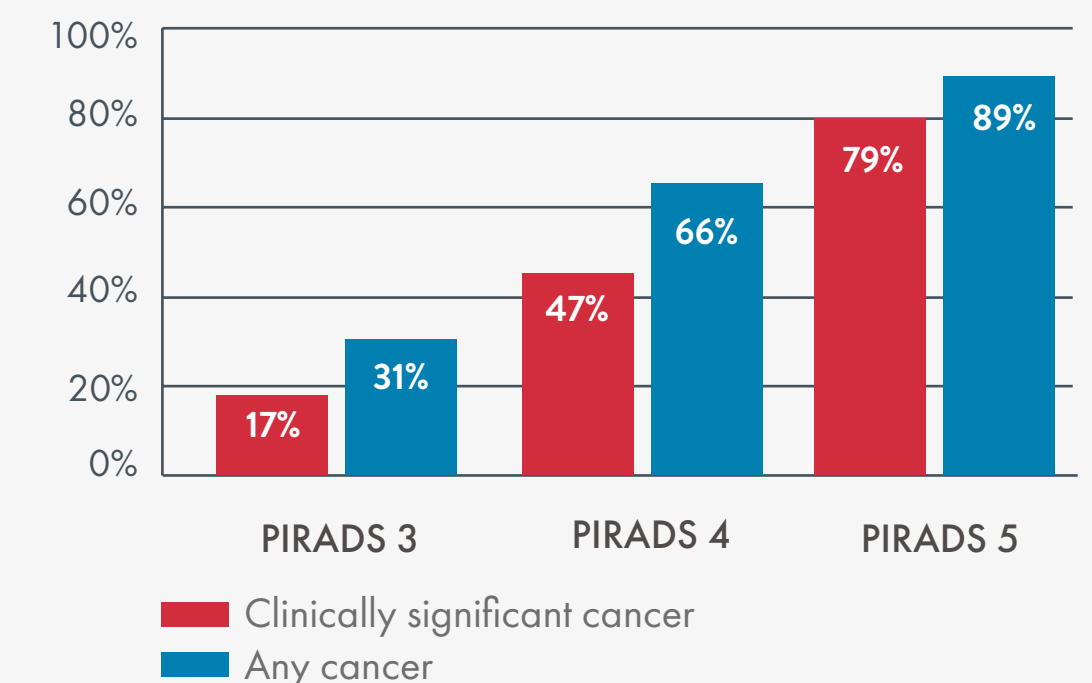
50% VS 34%

Cancer Detection Rate<sup>1</sup>

## TARGETED BIOPSY

When used with MRI, KOELIS Trinity® enables optimal sampling of MRI targets. Accuracy of OBT Fusion® ensures you sample what you target.

Detection rates according to PIRADS score<sup>3</sup>



Distance from the core to the center of the target<sup>2</sup>

TARGET LOCATION	BASE	MID	APEX
COGNITIVE FUSION	6.3mm	6.6mm	8.4mm
OBT FUSION®	2.3mm	2.5mm	3.6mm

Publication reference

<sup>1</sup>PELTIER et al., Biomed Res Int. 2015 Janv 27

<sup>2</sup>CORNUD et al., Radiology. 2018 May Jan 22

<sup>3</sup>ODERDA et al., Int J Urol 2018 Sep 5



## Physician Value

---

- Increase of clinically significant prostate cancer detection rate<sup>1</sup>
- Intuitive & user-friendly
- All-in-one with small footprint

## Patient Value

---

- May decrease the risk of over-diagnosis
- Allows tailored care to the patient
- Facilitates ongoing personalised monitoring

## Economic Value

---

- Increase activity and productivity
- No additional ultrasound cost and staff
- Short learning curve

KOELIS  
16 chemin du Vieux Chêne 38240  
Meylan (Grenoble) - France  
+33 458 176 810

KOELIS Inc USA  
116 Village Boulevard Suite 308  
Princeton, NJ 08540, United States  
+001 (908) 502 2035

KOELIS Asia  
21 /F, On Hing Building  
1 On Hing Terrace, Central, Hong Kong  
+852 3971 9116

<sup>1</sup>PELTIER et al., Biomed Res Int. 2015 Janv 27  
K-COM 3000 V10.0\_EN November 2020