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KOELIS
Advancing Prostate Care

Dr. Kohl's testimonial

1. Context

- Could you introduce yourself and describe your practice at Klinikum Leverkusen?

My name is Tobias Kohl. I have been performing fusion biopsies for over ten years. At Klinikum Leverkusen, we transitioned to the Koelis system two years ago, and it has proven to be an excellent fit for our workflow, allowing us to perform biopsies in a straightforward and time-efficient manner. We currently perform approximately 800 biopsies per year, under either local or general anesthesia, depending on the patient's preference.

- Could you describe the fusion biopsy activity in your center and how these procedures are typically performed in your daily practice?

To maximize efficiency, we have structured our workflow around dedicated biopsy sessions, where we typically perform between 4 and 12 patients per session. In our center, we exclusively use the transperineal approach. We operate in both outpatient and inpatient settings, offering patients the choice between local and general anesthesia.

- What is your current workflow for image preparation prior to the procedure?

Whenever possible, we review and prepare the prostate MRIs the day before the biopsy procedure. Given the German healthcare setup, we receive many different types of MRI datasets from a wide range of imaging centers, which makes image preparation an important step in our workflow. We therefore prepare and review the images ourselves to ensure consistency and accuracy before the procedure.
This preparation is essential, as it allows us to work efficiently and confidently in the procedure room, while minimizing the risk of confusion between targets or patients. It is a valuable investment of time that significantly improves workflow during the actual biopsy.

2. Before the Product

- Before using AI in your daily practice, what were the main challenges in your workflow?

Accurate prostate contouring is fundamental to a correct image fusion. While experienced urologists can perform this step quickly and reliably, it presents a real challenge for less experienced colleagues and requires considerably more time. As a senior physician, it is simply not feasible to personally review and correct every contour produced by every member of the team, which means variability in quality is almost inevitable.

- Which tasks or steps were the most time-consuming or frustrating?

The entire process of retrieving the MRI, loading it into the system, and producing a correctly contoured prostate was consistently the most time-consuming and cumbersome part of the workflow. It was a bottleneck that affected every procedure.

- How did these challenges impact the efficiency of you and your team and daily operations?

The time required for manual contouring varied considerably depending on the operator's experience level. This created an inconsistency in our throughput, on days with less experienced operators, preparation took noticeably longer. Beyond the time factor, there was always a degree of uncertainty about whether the contours met the quality standard needed for a reliable fusion.

3. First Impressions

- Could you briefly introduce ProMap Smart®, the Koelis AI solution for automatic segmentation?

ProMap Smart is an AI-powered segmentation tool that automatically generates prostate contours from both MRI and TRUS imaging. What I particularly appreciate is that it functions as a true enabler: the contours are generated instantly and automatically, yet the physician always retains full control and can manually adjust them at any point if needed, though in practice, that is only rarely necessary.

- What were your first impressions when you tested the solution?

I was genuinely impressed. The accuracy of the automatically generated contours was remarkably high, and the speed was striking, contours are available within seconds. It immediately felt like a tool that was ready for routine clinical use, not just a promising prototype.

4. Clinical & Operational Impact

- How has the software changed your daily workflow? What benefits have had the greatest impact?

ProMap Smart has accelerated the workflow for every member of our team. The most significant impact, however, is on less experienced and intermediate-level surgeons, who previously required considerably more time for contouring than our senior physicians. With ProMap Smart, the overall quality of contouring has improved, and, perhaps most importantly, the gap between beginners and experts has become much smaller. This has directly improved the consistency and reproducibility of our procedures across the team.

- How easy was it to integrate the solution into your existing workflow?

Integration was entirely seamless. There was no learning curve for the AI feature itself, you simply open the prostate images, whether TRUS or MRI, and the contours are already there. It required no additional training and created no disruption to our existing processes.

- What improvements have you observed in terms of team efficiency, workflow standardization, and user adoption?

We are a team of nearly ten physicians performing around 800 fusion biopsies per year. Prior to ProMap Smart, contouring quality varied considerably depending on where each surgeon was in their learning curve. Since implementing the software, average contouring quality has measurably improved, and the learning curve for new users has become noticeably steeper, meaning they reach a high standard of quality much faster than before. This has been a meaningful step toward standardizing our workflow across the entire team.

- What would you say to other urologists considering AI-assisted segmentation solutions?

In my experience, AI-assisted segmentation has had a measurable positive impact on workflow quality and team efficiency. ProMap Smart has been very warmly received in our daily practice, it is intuitive, efficient, and genuinely improves both the speed and quality of the workflow. While AI-assisted segmentation is not yet the standard of care in 2026, I am convinced it will be very soon. I expect AI-driven approaches to become increasingly established in this field in the coming years.