

# We detect prostate cancer



## Center for Precision Medicine of the prostate

- multiparametric MRI and MRI fusion biopsy
- 29 Mhz-Micro-Ultrasound
- Biobot biopsy robot iSR'obot™ Mona Lisa
- ANNAcTRUS™

**precise, sterile and painless biopsy**



Akademisches Lehrkrankenhaus der Universität Heidelberg

Dear patient,

would you like to have extend prostate cancer screening or did your doctor detect a suspicious finding that requires a prostate biopsy? We welcome you in our center for precision medicine of the prostate.

Prostate biopsy is a short, routine procedure that has not effect on the functional capability of the prostate.

A biopsy is taken from the prostate with a special modern hollow needle and following sent to the pathologist for the histopathological examination.

The number of taken tissue samples, the exact location respectively the precision/accuracy of the biopsy, as well as the access to the prostate depend on many factors and are managed very differently depending on the center.

In addition to the medical specialists, our prostate center offers you a combination respectively fusion of the most modern technical procedures for biopsy that is unique in Europe.

These technologies are able to make the often invisible prostate cancer visible and thus increase the precision of the biopsy procedure and any further therapies.

The biopsy in our center is carried through the perineum and therefore is sterile, which reduces the risk of an infection to an absolute minimum.

Only the ultrasound is done through the rectum, for which reason it is not necessary to take an antibiotic.

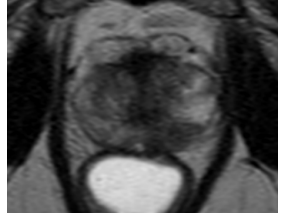
The procedure is performed under light sedation (= twilight sleep) and additional local anesthesia. A short general anesthetic is only necessary for the robotic biopsy.

Beside our high tech equipment empathy is very important to us and we attach great importance to make the entire situation as pleasant as possible and fear -and painless.

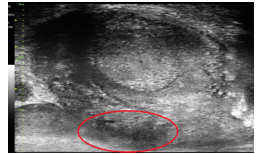
We would be happy to advise you in our private consultation hours (also online or by telephone) with Professor Dr. Kruck and Dr. Buchgeister.

# Combination of the latest methods of diagnosis

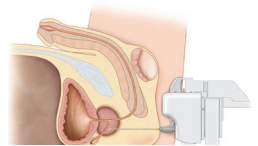
In order to increase the accuracy of the prostate biopsy, we recommend prior **multiparametric magnetic resonance** imaging of the prostate. Due to many years of experience, the administration of contrast medium in the MRI examination (biphasic MRI) can often be dispensed with in our center. The MRI images can then be superimposed three-dimensionally with the ultrasound images live during the procedure to form a so-called **fusion biopsy** in order to target conspicuous areas of the prostate accurately.



In addition with the **29 MHz micro-ultrasound Exact Imaging™** – the most modern ultrasound system of the prostate worldwide and its up to 600% improved resolution compared to other ultrasound devices, we are able to make conspicuous areas even better visible than before and to perform targeted Prostate biopsies.

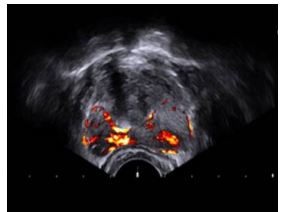


In our center there is also the possibility of a robot-assisted biopsy with the **Biobot biopsy robot iSR'obot™ Mona Lisa** or an „**in-bore MRI biopsy**“, that takes place live in the MRI.



Both of these biopsy procedures are performed under a brief **general anaesthetic**.

Furthermore, our center works with the AI-supported (**AI = artificial intelligence**) image recognition technology **ANNAcTRUS™**. The ultrasound images are analyzed by an algorithm and can, for example, be checked online by your urologist in the practice after a negative biopsy over the long term (so-called "trend monitoring").



Elastography, with which the hardness of the prostate tissue is measured sonographically, is also available.



## How is the process of the prostate biopsy going on

### Before the prostate biopsy

Please read this flyer **in order** to prepare for the prostate biopsy.

You will receive further information and a checklist before the procedure. The biopsy is based on all available imaging data (sonography, elastography, MRI, ANNACTRUS™, 29 Mhz-Micro-Ultrasound).

External image data and their written findings must be available to us (e.g. CD-ROM) at least 10 days in advance for the biopsy planning.

**Blood anticoagulants** should be stopped in time before the biopsy by your family doctor. If these medications are absolutely necessary, the procedure can be carried out after our approval with a slightly increased risk of bleeding under the therapy.

You should have your **blood laboratory values** (BB, INR, Quick, PTT) determined by your family doctor or by us no more than a month in advance.

### On the day of the biopsy

Due to the high level of precision, the intervention is performed under local anesthesia and additional sedation (sleep-like state, general anesthesia only for robotic biopsy).

**Please come to the biopsy with an empty stomach(fasting).**

Monitoring takes place after the procedure in the recovery room and on the ward. After a medical check, you will be released the same day as accompanied, because **you are not "fit for driving"** after the sedation.



## After the biopsy

Please take it easy. Stronger and longer physical exertion should be avoided for about a week. Bleeding from the urethra, bloody urine, and bloody ejaculation are normal consequences of the biopsy.

The duration of the possible blood admixtures varies greatly from person to person and can be up to **2-4 weeks**.

In our experience (more than 1,000 biopsies), high fever, severe pain or urinary obstruction are rare due to the use of the most modern technology. **If you see these warning signs, you should see a doctor immediately.**

## Histopathological result

Histopathological result of the prostate biopsy examination will be discussed with **your urologist or during our consultation hours**.

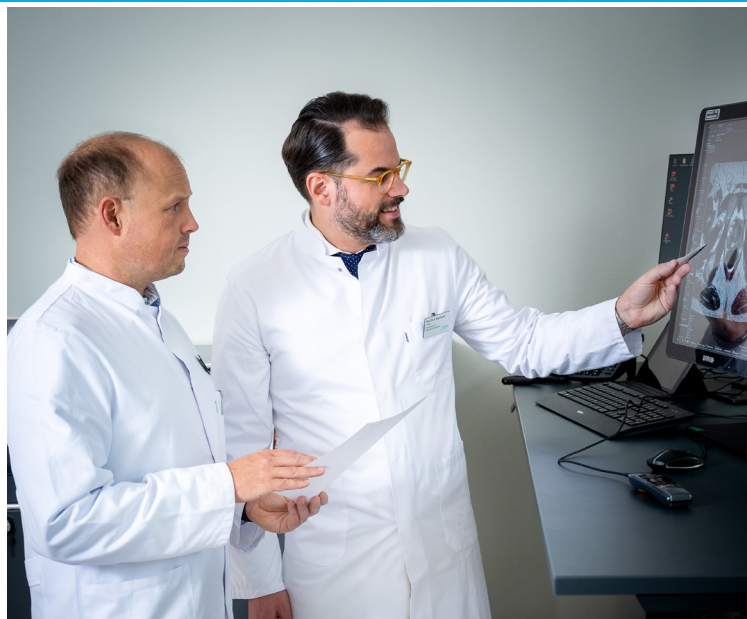
The tissue examination usually takes **5-7 working days**.

If you want to talk about your results in our center, we suggest to make an appointment for a personal conversation with one of our medical experts, because online or telephone is unfavorable for these subjects.

## Therapy

With more than 2,500 robot-assisted operations, we are also one of the most experienced centers in Germany when it comes to therapy.

Our Department has two latest-generation robotic systems (DaVinci X and Xi system). We would be happy to advise you on this.



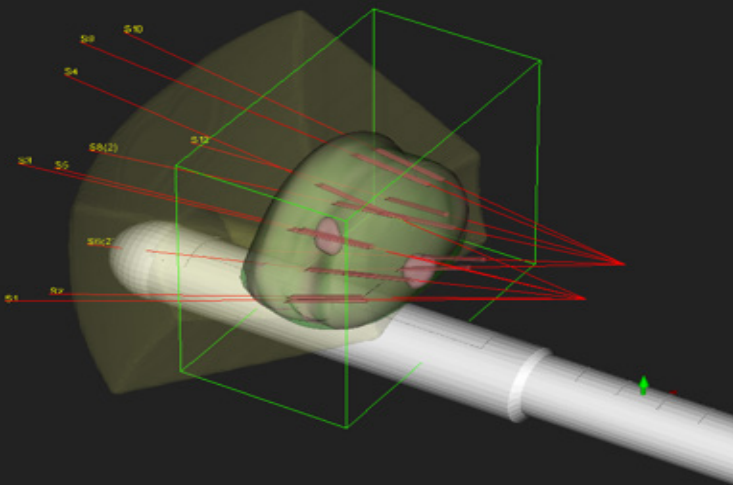
## Experts work hand in hand

Professor Dr. med Sascha Kaufmann and Professor Dr. med Stephan Kruck are recognized throughout Germany as an expert duo with more than a decade of experience: Prof. Dr. med. Sascha Kaufmann (Head of the radiology department) is one of the world's few double specialists in radiology and urology and one of the leading experts in the field of oncological and uro-radiological imaging.

Prof. Dr. med. Stephan Kruck (Fellow of the European Board of Urology and Head of the Urology Department) is considered a pioneer in robot-assisted fusion biopsy and an expert in the detection and therapy of urological tumors.

Dr. med. Philipp Buchgeister (Fellow of the European Board of Urology) coordinates the the urooncological center at the Siloah Klinikum. Our center of prostate cancer is certified by the German Cancer Society. It is one of the few European centers to use a combination of the most advanced detection methods:

- Magnetic resonance imaging of the prostate (on-demand exposure to contrast medium), in-bore MRI biopsy)
- Biobot biopsy robot iSR'obot™ Mona Lisa
- 29MHz Micro-Ultrasonic fusion technology (ExactVu™)
- Artificial Intelligence for Cancer Pattern Recognition (ANNAcTRUS™) and Elastography
- Gene-based risk assessment in urine (Select MDx™)



## The costs of the prostate biopsy

We will gladly provide you a cost estimate if you would like to have your insurance company or other service providers to check the cost reimbursement in advance.

# Our contact informations

## The department of Urology

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## The Urooncology Center

Prof. Dr. med. Stephan Kruck and Dr. med. Philipp Buchgeister



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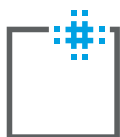
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**more information**



**SILOAH**

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