

### Pain-free thanks to anesthesia

The therapeutic team of our clinic includes several experienced specialists for anesthesia. Thanks to combination anesthesia we are able to guarantee that the patient does not experience any pain during the procedure.

### Am I suited for HIFU therapy?

After carefully reviewing your medical data and a brief examination, our urology specialists will be able to tell you whether you are a suitable patient for a HIFU therapy.

We shall exactly and thoroughly inform you regarding the details of the treatment and the procedure following the intervention.

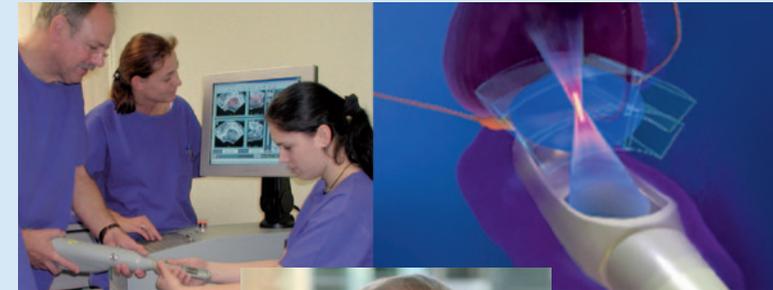
### Advantages of the HIFU therapy technique:

- No surgery required to achieve the target
- An extremely short stay in the clinic
- No major impairment of the patient's quality of life
- No impairment of the patient's sexual function, since in most cases the procedure has no impact on potency
- As a rule no impairment of the function of the rectum

### Contact us!

Clinic for Prostate-Therapy  
 Bergheimer Strasse 56a  
 Phone +49 (0)6221.650 85-0  
 Fax +49 (0)6221.650 85-11  
 D-69115 Heidelberg, Germany  
[www.prostate-therapy.eu](http://www.prostate-therapy.eu)  
[info@prostate-therapy.eu](mailto:info@prostate-therapy.eu)

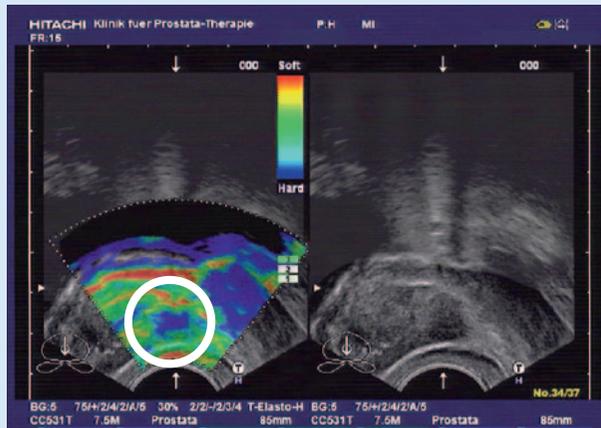
## Gentle prostate therapy with HIFU



### Diagnosis: carcinoma of the prostate

Carcinoma of the prostate has meanwhile become one of the most frequently diagnosed forms of cancer among men. The cells of the prostate gland start to proliferate without any apparent reason.

Your physician has made this diagnosis by palpating the prostate with his finger (DRE), by means of an ultrasound investigation via the rectum (TRUS), or possibly by investigating a specimen of prostate tissue. Meanwhile there are novel techniques available for further diagnosis, for example elastography (see diagram), that enable a three-dimensional image to be made of the area affected by the tumor.



Elastography makes it possible to image an area affected by a tumor (circled blue region).

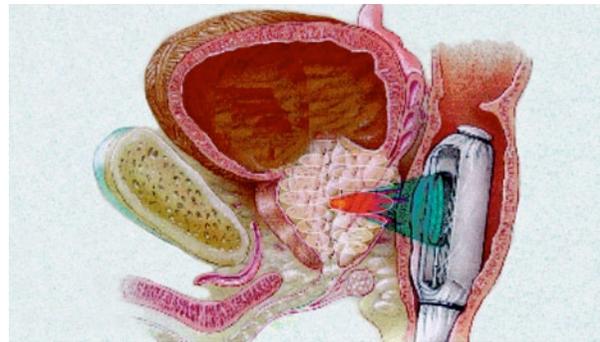
### What should be done?

The therapy that now follows should eliminate the tumor in its entirety. The tumor is, however, accessible for a locally targeted form of therapy only as long as it affects only the prostate gland. In the event that other organs are affected by metastases, other procedures must be employed.

The therapeutical procedures that have been used so far are: radical surgery, radiation therapy, or implantation of radioactive particles (seeds). These methods are associated with high risks and in some cases involve a drastic impairment of the patient's quality of life, such as incontinence and impotence.

### A gentle and noninvasive method of treatment

The method of choice is hence a gentle and low-risk form of primary therapy. Since the HIFU method gives us the possibility to enact treatment gently and early on, the risks can be kept to a minimum.



Via a treatment probe positioned in the rectum, under the control of a computer, the area to be treated is "thermo-coagulated". The tissue treated in this manner is destroyed and excreted with the urine or else absorbed by the body's own phagocytes.

### High Intensive Focused Ultrasound HIFU

High Intensive Focused Ultrasound is capable of generating temperatures of 95°C to 100°C in the tip of the focus – sufficiently high to destroy the tissue of the cancer. This is the principle behind the technology of the HIFU instrument of the very latest generation, the SONABLATE 500.

Layer by layer, millimeter by millimeter, the focus of the ultrasound ray is run through the tissue by the computer until the tumor has been destroyed by thermocoagulation.



The head of the HIFU ultrasound probe emits highly intensively focused ultrasound waves. The course of the procedure is monitored on the computer display and documented.