

ABLATHERM [High Intensity Focused Ultrasound]:
non invasive transrectal treatment for localized prostate cancer over a 5 years period [112 patients]

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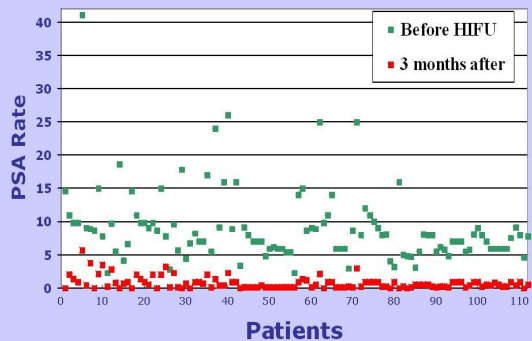
Ablatherm:
The Future is now...



Introduction:
HIFU delivers focused ultrasound (U.S) energy via a transrectal U.S probe, under 3D transrectal U.S guidance, causing rapid thermal necrosis of tissue within the target area without damaging the surrounding tissue. **HIFU** is the least invasive curative treatment alternative to radical prostatectomy.

Method:
 The patient is positioned on the **HIFU** table in right lateral decubitus and under **spinal anaesthesia**. The **HIFU** antenna with rectal cooling balloon is inserted into the rectum. **Tiny HIFU lesions** are directed towards the target **prostate tissue** that will be **destroyed**. All patients left the hospital **24 hours** after treatment with suprapubic safety catheter, removed after a consecutive 3 days miction with a residue < 50 cc.

PSA Before & After HIFU



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Objectives & patients(pts)

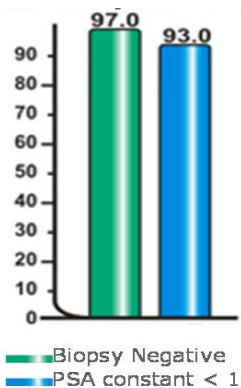
To present the preliminary clinical results of our first **112** localized prost. cancer patients treated with (**HIFU**), over a **60 months** period with a mean follow-up of **40 months** (18 – 60) :

- 61 pts**[T1]; **46pts**[T2]; **5 pts**[T3a]
- 49 T1-T2a pts** chose for a nerve sparing treatment
- 51 pts** had TURP for obstruction, or prostate > 40cc
- 5 pts** had local recurrence after EBRT

mean age 66 years [52-87]; mean psa **7.9** [2.3-41], mean gleason score **5.2** [2-6 in 68 pts; 7 in 35 pts; 8-9 in 9 pts]

Results

Our study over 5 years

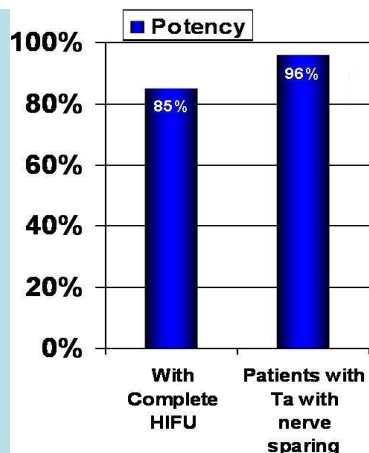


- No death
- No fistula
- No hemorrhage
- The patients left the centre 24H after HIFU

No major complications

- 12% Urinary infection
- 2% Urethral or bladder neck stricture treated successfully with endoscopy
- 3% Temporary stress incontinence I or urge Incontinence, with a 100% spontaneous recovery within 3 months

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Conclusion

Hifu proves to be a safe, non invasive and curative treatment option for patients with localized prostate cancer.