

## **FOCUSSED ULTRASOUND (HIFU) FOR PROSTATE CANCER TECHNICAL AND APPLICATIVE PROGRESS**

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**INTRODUCTION:** balance between results and sideeffects is a most important topic in PCa therapy. Influence of technical and applicative progress on side effects of local HIFU therapy with Ablatherm®\* was retrospectively analyzed.

**MATERIAL & METHOD:** Between 3/96 and 4/99 200 patients have been treated for varoius indications. Follow up after 2/4/12/52 weeks etc. were performed by DRE, TRUS, PSA, QLF score and sextant biopsies after 3 and 12 months. A "complaint score" out of 60 possible complaints was developed. The effect of new technical and applicative therapeutic features as 1) "flexible focus lenght + apical treatment distance (7mm)", 2) "rectal cooling (5°/13°C) + autofocussing" and 3) "unilateral treatment versus bilateral treatment (nervsparing)" was analyzed.

**RESULTS:** technical and applicative progress in HIFU application could be clearly shown:

Problem	stressincontinence I° - II°	rectal mucosa petechiae	impotence
rate before	10,7%	100%	72%
solution	flexible focus lenght + apical distance 7mm	rectal cooling + autofocusing	nerve sparing
rate after	6,2%	0,5%	47%

**CONCLUSION:** rectal burn-, stressincontinence- and impotence rate have been significantly decreased by introduction of newtechnical and applicative features.

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