INCONTINENCE RELATED TO HIFU FOR GLEASON 8-10 PROSTATE CANCER

Hypothesis / aims of study
HIFU (HIGH INTENSITY FOCUSED ULTRASOUND) has most often been reserved for low grade prostate cancer with Gleason scores 5-7 (1) Incontinence in patients with Gleason 8-10 has not been reported.

Study design, materials and methods
731 patients underwent HIFU for prostate cancer during the last 4 years with a Sonoblate 500 unit employing real time Doppler ultrasound imaging. Prostate volume was below 50 gm before treatment. 30 patients with Gleason 8-10 had HIFU and 5 required repeat treatment due to local recurrence. TURP was not performed prior to treatment. A catheter was in place for 3-5 weeks.

Results
Overall incontinence was 4/731 (0.4%) Erectile dysfunction occurred in 8/731 (1%) There was an overall 2% recurrence. For the Gleason 8-10 group: incontinence 0/30 (0%), erectile dysfunction (3%), recurrence 5/30 (17%)

Interpretation of results
The low incidence of incontinence was probably related to 1) real time imaging during treatment preserving the neurovascular bundle 2) younger age of patients with aggressive tumors-median age 58.

Concluding message
HIFU using real time image guidance for high grade tumors has a low incidence of Incontinence.

References
Prostate Cancer Symposium: American Society of Clinical Oncology 2007

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