

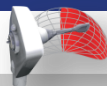
# Comparisons of oncological and functional outcomes among radical retropubic prostatectomy, high dose rate brachytherapy, cryoablation and high-intensity focused ultrasound for localized prostate cancer

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## Study Summary

Retrospective single institution comparative study of Radical retropubic prostatectomy (RRP), high dose rate brachytherapy (HDRBT), cryoablation and High Intensity Focused Ultrasound (HIFU) in localized prostate cancer.

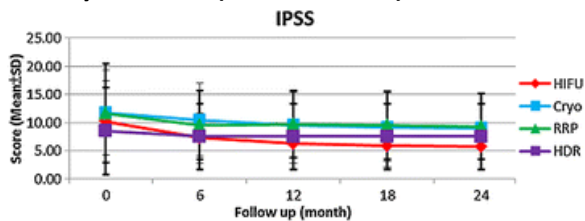
	HIFU (N=120)	RRP (N=97)	HDR (N=161)	Cryo (N=114)
Age (mean)	68.06	63.53	71.92	69.76
Low risk	12.5%	9.3%	3.7%	16.7%
Intermediate risk	39.2%	10.3%	20%	21.1%
High risk	48.3%	80.4%	76.4%	62.3%



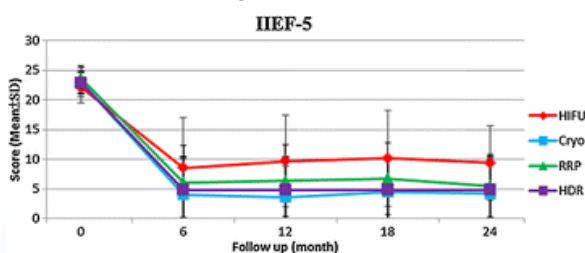
- Large number of patients for each group
- Majority of Intermediate and high risks patients

## Results

Urinary functions (lower is better) :



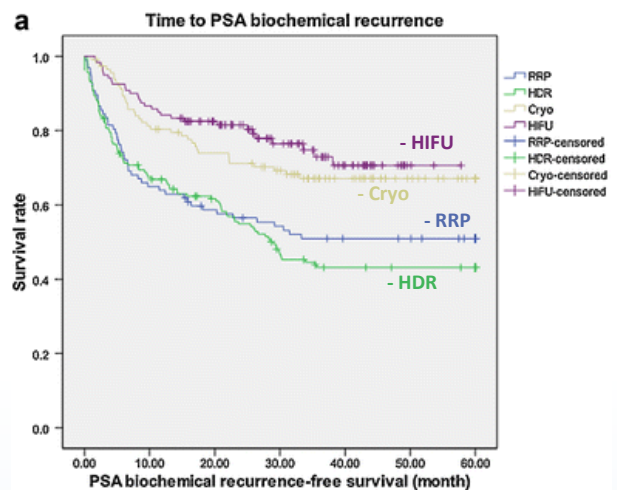
Erectile function (higher is better) :



PSA biochemical recurrence was defined as

PSA  $\geq$  0.2ng/mL for RRP and

PSA  $\geq$  PSA nadir +2 ng/mL for HIFU, Cryo and HDR



- Efficacy (BFSR) for HIFU is the highest compared to other techniques
- HIFU patients have seen an improvement of their urinary symptoms
- Despite having older patients than RRP, HIFU patients have the best IIEF-5 score (sexual functions)
- **In this study patients undergoing HIFU had the best survival rate with optimal preservation of urinary and sexual function**

## Conclusions

Quote from the publication

*"In consideration of trifecta, HIFU may provide equivalent cancer control and better quality of life for patients of localized prostate cancer"*



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