

OVER THE NEXT DECADE **SEEDS WILL REMAIN
THE OPTIMAL BRACHYTHERAPY TREATMENT FOR
EARLY PROSTATE CANCER**



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**DEFINITION OF WHAT
OPTIMAL
BRACHYTHERAPY
TREATMENT
MEANS!!!!**

OPTIMAL TREATMENT???

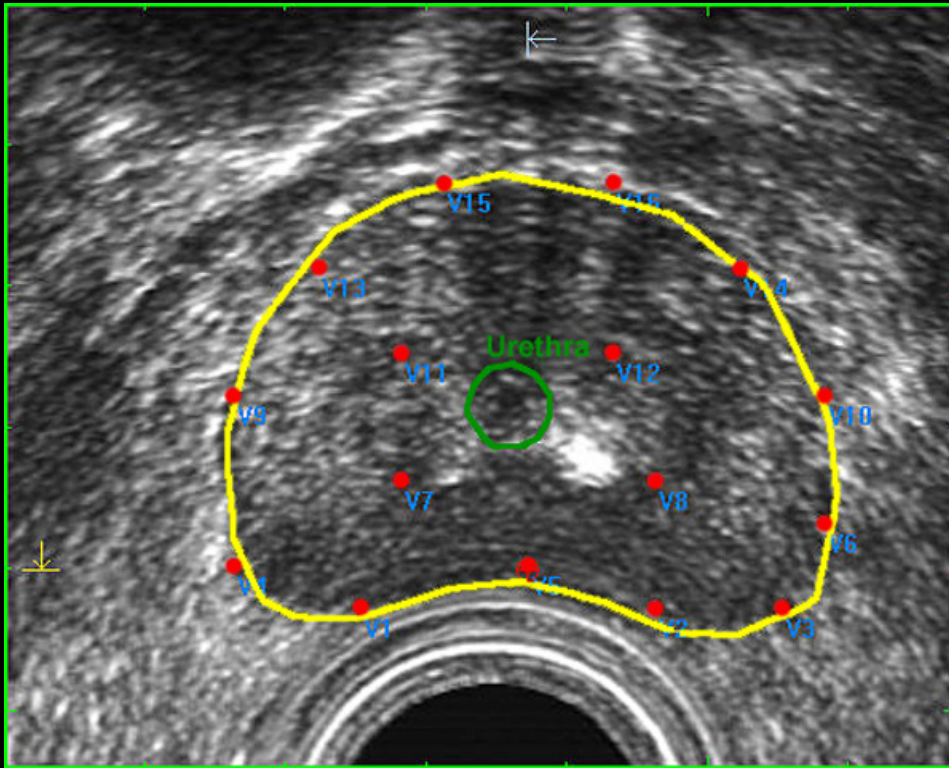


DIFFERENT ANSWERS!!!!

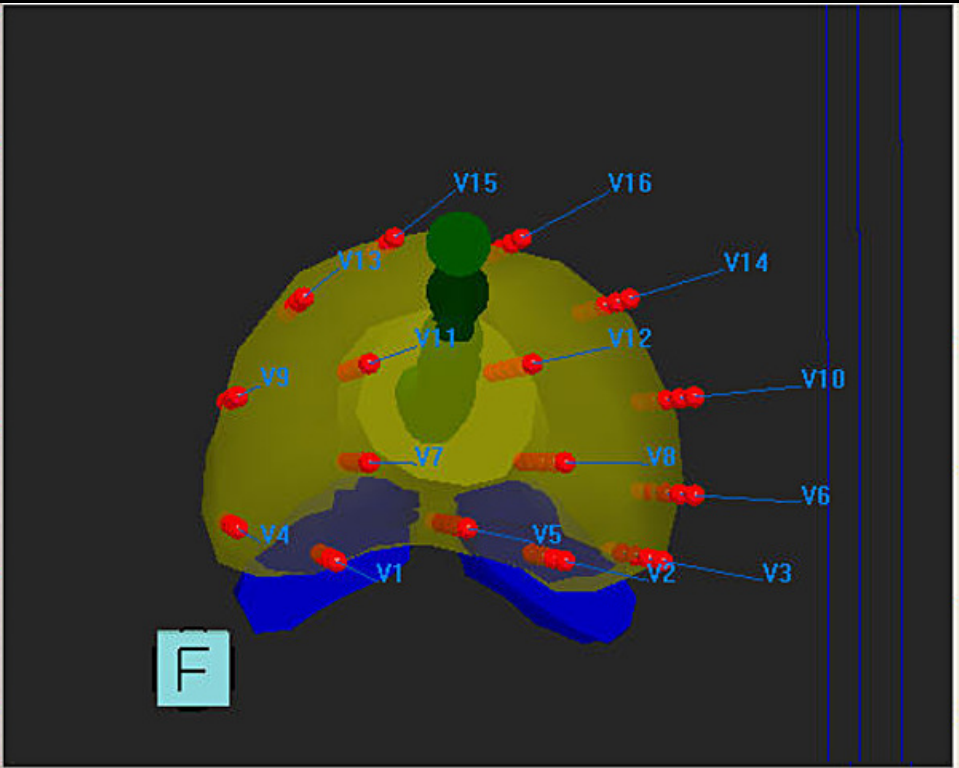
OPTIMAL IN TEMRS OF:

- **LEARNING CURVE?**
- **LOCAL CONTROL?**
- **LESSER TOXICITY?**
- **ACCESIBILITY?**
- **LESS COST PER YEAR OF TREATMENTS**
- **INDIVIDUAL BIAS?**

LEARNING CURVE **NO DIFFERENT**



2D



3D

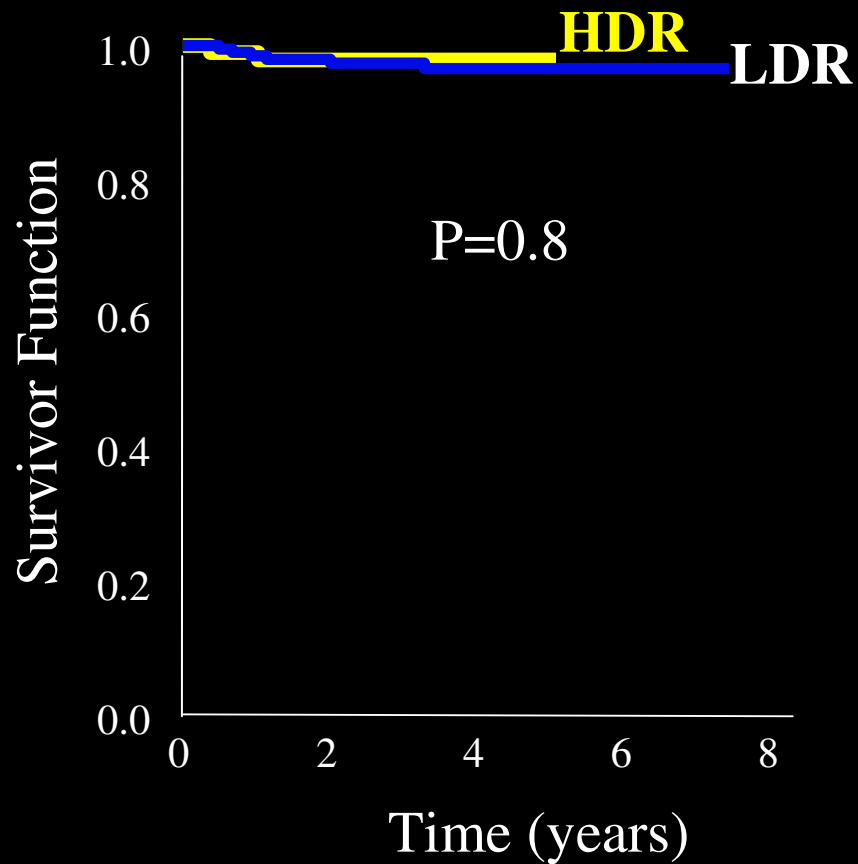
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- **ABSENCE OF RANDOMIZED TRIALS**

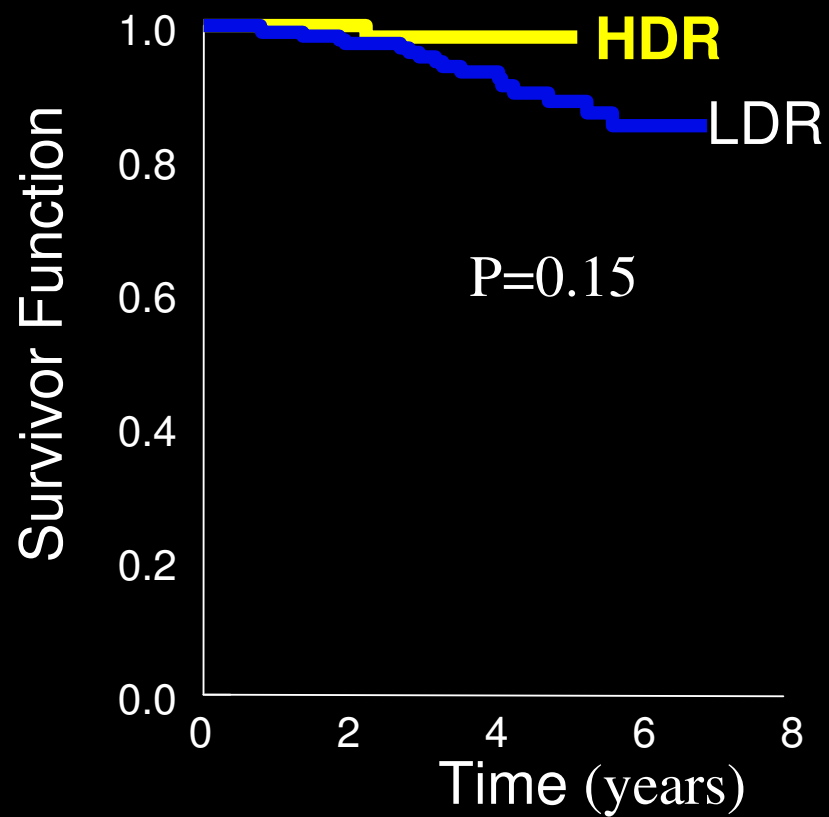
METHODS

- **454** treated with brachytherapy at William Beaumont or CET from 1993-2004
 - **248 HDR**
 - **206 LDR**
- HDR
 - **WBH- 38 Gy in 4 fractions**
 - **CET- 42 Gy in 6 fractions over two implants 1 week apart**
- LDR- 120 Gy with Palladium. **All WBH**
- Biochemical Failure- Phoenix Definition

BF FOR HDR VS. LDR



OS for HDR vs. LDR



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CHRONIC TOXICITY ACTUARIAL RATES

		Pts (n)	1 year	2 year	3 year	<i>p value</i>
Grade ≥1	HDR	169	25.2	45.6	49.6	
	LDR	161	47.7	55.5	60.4	0.002
Grade ≥2	HDR	169	15.6	29.8	34.2	
	LDR	161	20	21.2	23	0.3
Grade ≥3	HDR	169	2.4	5.7	5.7	
	LDR	161	6.3	7	7.7	0.4

CHRONIC G-U TOXICITY FOR DIFFERENT INSTITUTIONS

Author		# Pts	F/U Mo.	Urethra Stricture	Grade 2	Grade 4	Impotence
Beyer	LDR	489	32	2%	20%	0%	25%
Blasko	LDR	196	40	3%	29%	0%	20-50%
Zelevsky	LDR	145	24	12%	31%	0%	53%
Zelevsky	LDR	248	48	10%	41%	0.4%	43%
Wallner	LDR	65	24	NS	34%	0%	25%
Grills	LDR	84	29	3%	23%	0%	45%
Grills	HDR	65	29	8%	21%	0%	16%
Martinez	LDR	127	37	1%	26%	0%	41%
Martinez	HDR	169	35	3.5%	23%	0%	21%

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 - **ACCESSIBILITY?**
 - LESS COST PER YEAR OF TREATMENTS
 - INDIVIDUAL BIAS?
-
- **SAME**

OPTIMAL IN TEMRS OF:

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- **LESS COST PER YEAR OF TREATMENTS**
- INDIVIDUAL BIAS?
- **FAVORS HDR WITH 2 OR 1 FRACTION**

USA HEALTH CARE REFORM

OVER THE NEXT DECADE

- IS POLITICALLY DRIVEN BY OUTCOMES AND COST.

- IT IS REALISTICALLY DRIVEN BY **COST**,
COST, **COST** AND **COST**
– LESS DRIVEN BY OUTCOMES

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- **INDIVIDUAL BIAS?**
 - FAVORS FOR
 - **LDR : Drs GRIMM & HOSKIN**
 - HDR: Drs MORTON & MARTINEZ



"ANY SIDE EFFECTS FROM YOUR PROSTATE RADIATION TREATMENTS?"

**SEEDS OPTIMAL
TREATMENT?**

**BECAUSE
HEALTH CARE
REFORM, IT
WILL NOT BE
IN THE USA**