“Larry Smarr’s Prostate Cancer Early Detection and Focal Therapy”

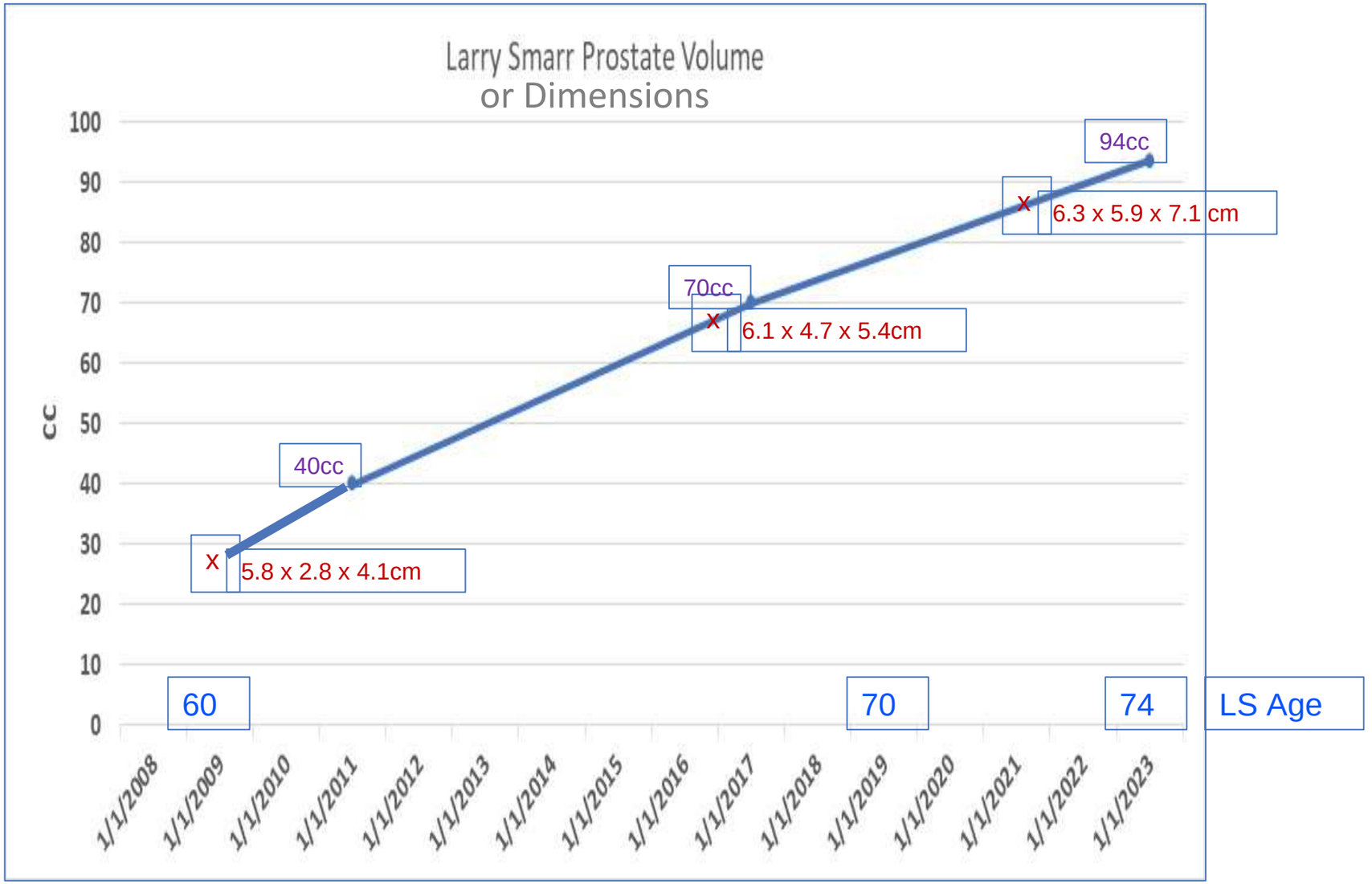
Future in Review Panel
With David Ewing Duncan and Dr. David Karow
November 7, 2023

Dr. Larry Smarr
Founding Director Emeritus, California Institute for Telecommunications and Information Technology;
Distinguished Professor Emeritus, Dept. of Computer Science and Engineering
Jacobs School of Engineering, UCSD
http://lsmarr.calit2.net

LARRY SMARR

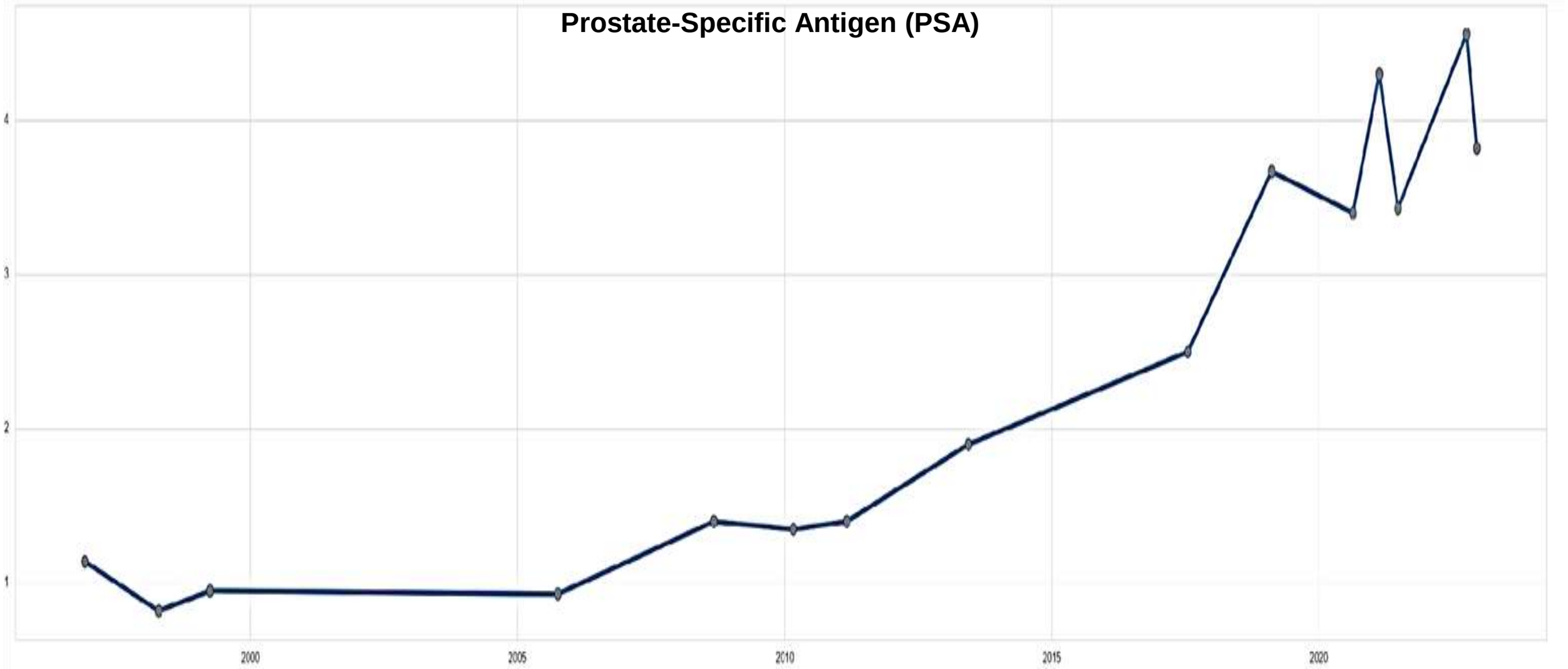
CT & MRI Scans
Quantified My Expanding Prostate Over The Last 15 Years

I have had six
(2008-2023)
Pelvic or Full Body
CT or MRI scans –
3 times with
prostate volume stated
and 3 times
with dimensions stated



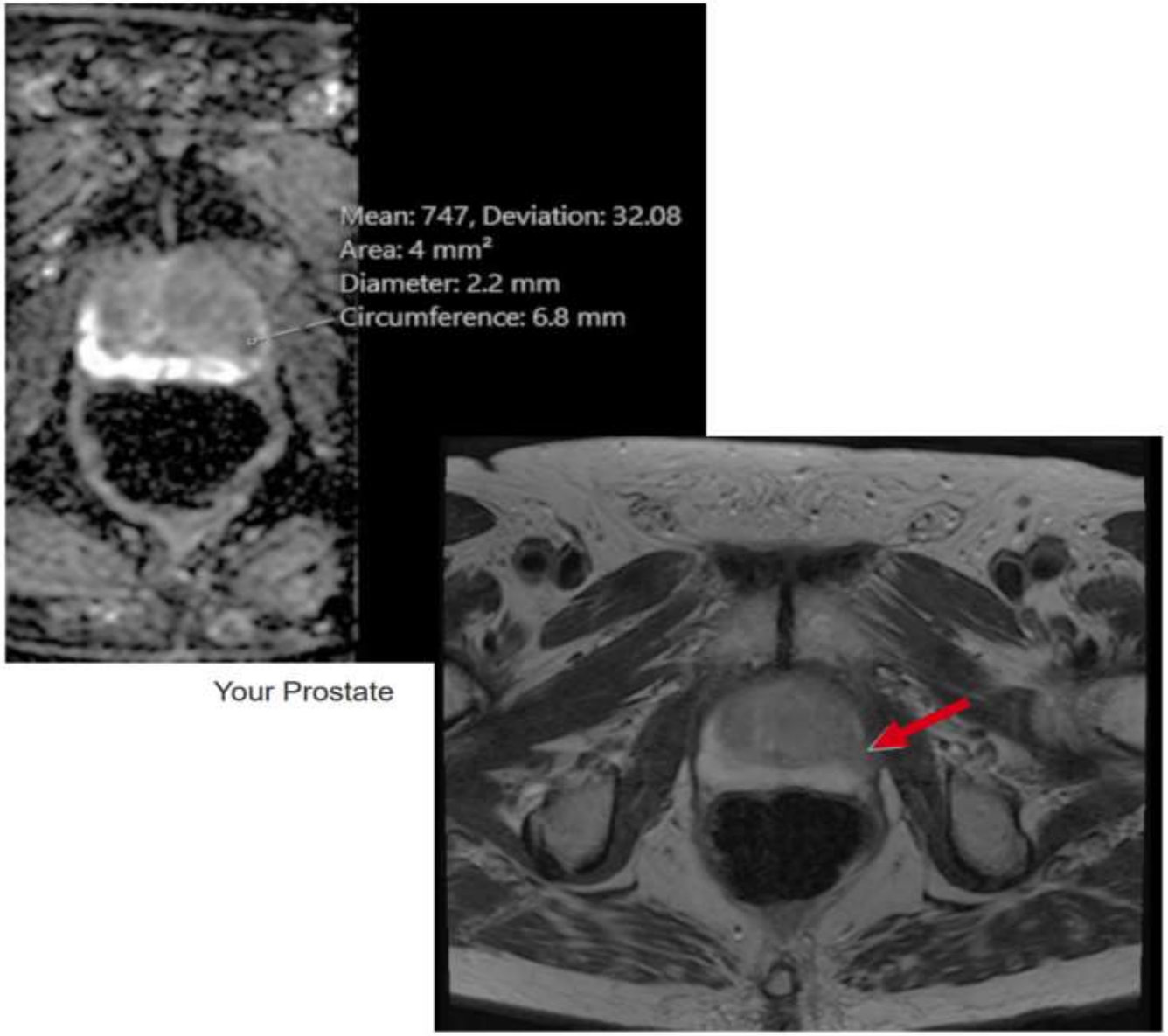
LARRY SMARR

My PSA Has Also Been Rising For the Last 15 Years



LARRY SMARR

Prostate Cancer Was Detected by Advanced MRI Full Body Scan at Human Longevity, Inc. on January 19, 2023



HLI's Dr. Karow Estimated:

- Very Early Stage
- High Grade Cancer
- Tumor 1% Prostate Volume
- Small Cancer Contained Within Prostate Capsule
- No Cancer in Lymph Nodes
- Gleason Score Likely 3+4

LARRY SMARR

MRI/Ultrasound-Guided UCSD Prostate Biopsy (March 27, 2023) Confirmed a Localized, Intermediate Grade, But High Risk Cancer

PHILIPS UroNav

MR/Ultrasound guided fusion biopsy system



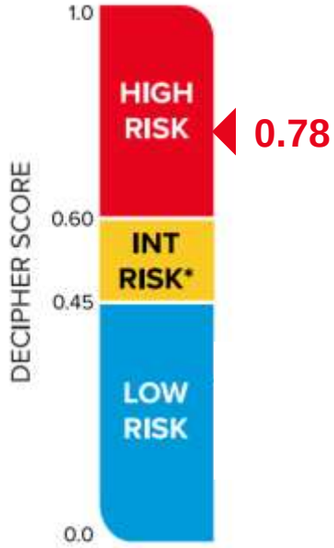


Amirali Salmasi, MD
Performed UCSD Prostate Biopsy
March 27, 2023

16 Needle Biopsy Samples
4 on MRI Targeted Tumor
12 Across Prostate

UCSD &
Johns Hopkins Pathology Labs
Microscopically Analyzed
My Prostate Biopsy Samples:
Gleason 4+3,
An Intermediate Grade Cancer

Decipher Prostate Biopsy Sample Genomic Risk Score:



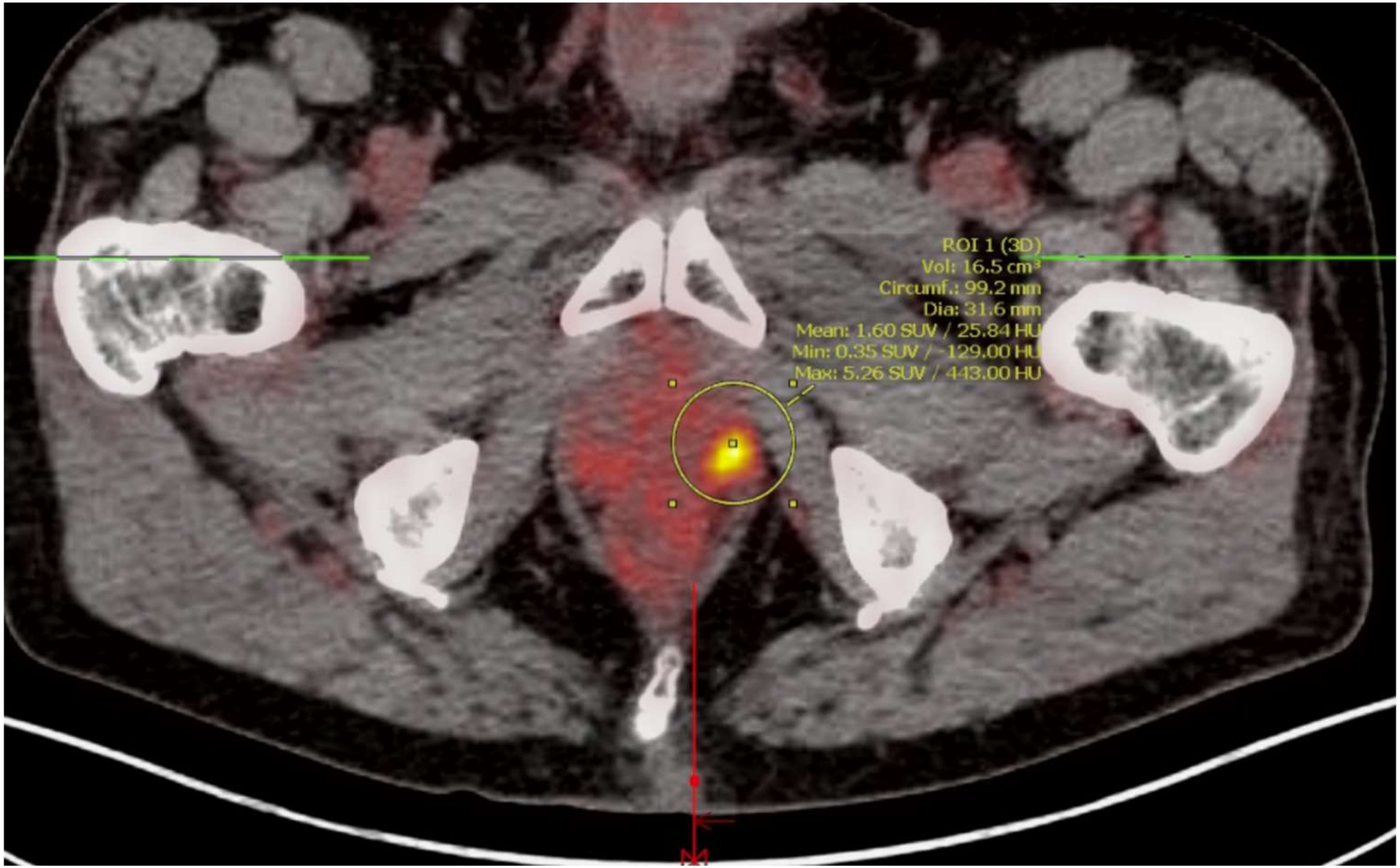
https://decipherbio.com/

25.9%

15-year
Risk of Prostate Cancer Mortality with RT or RP

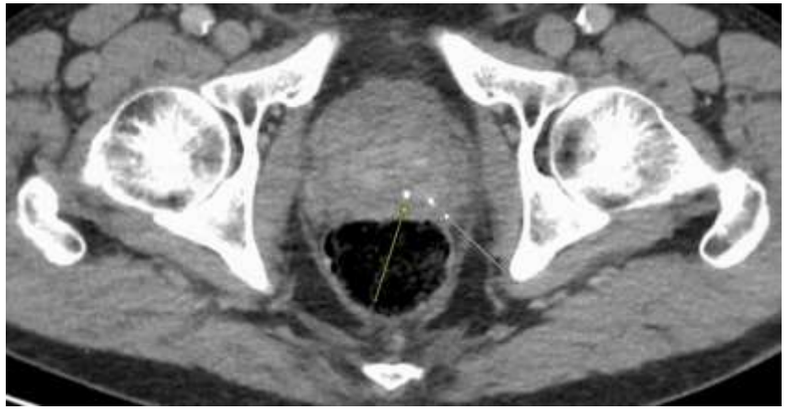
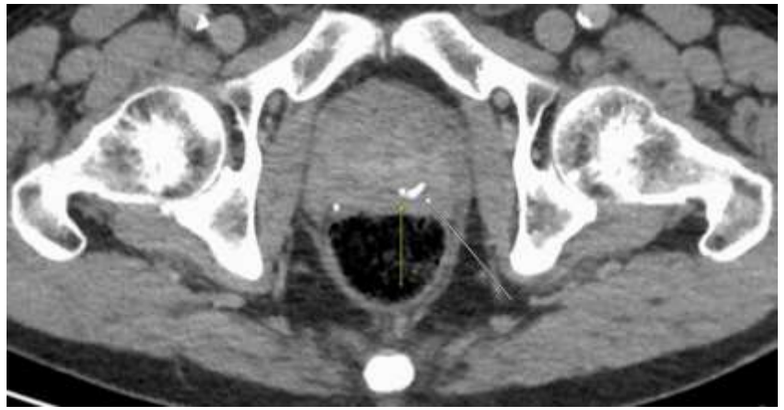
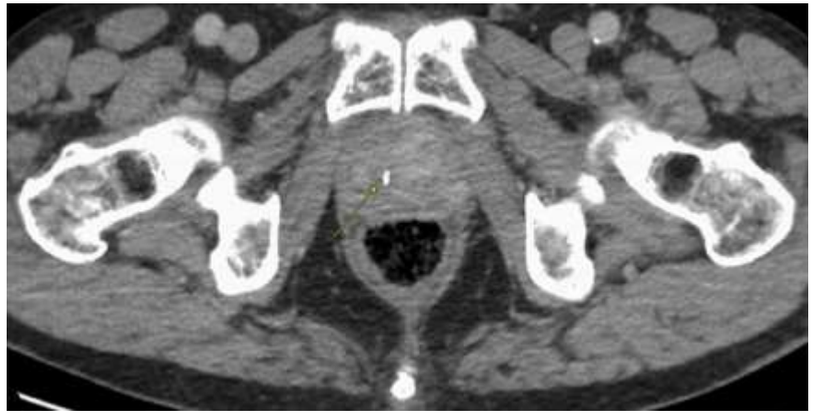
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UC San Diego PET/CT May 3, 2023
Confirms Location of Prostate Cancer Tumor with No Metastatic Disease

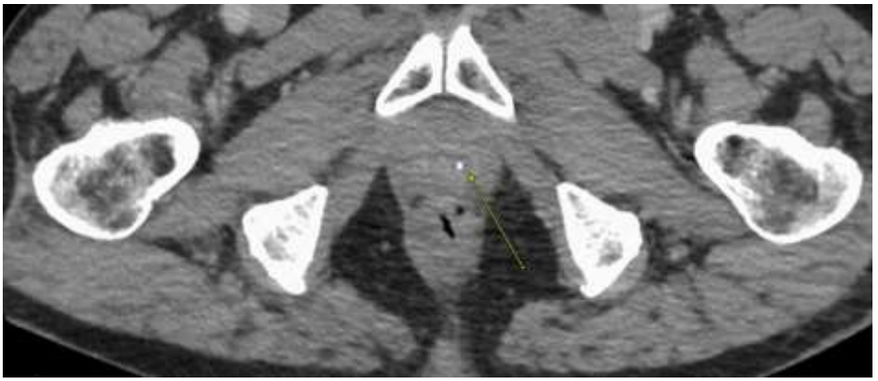
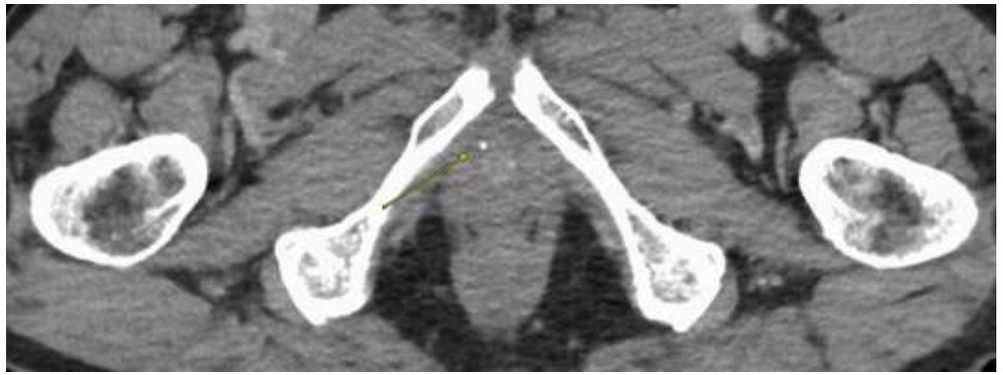
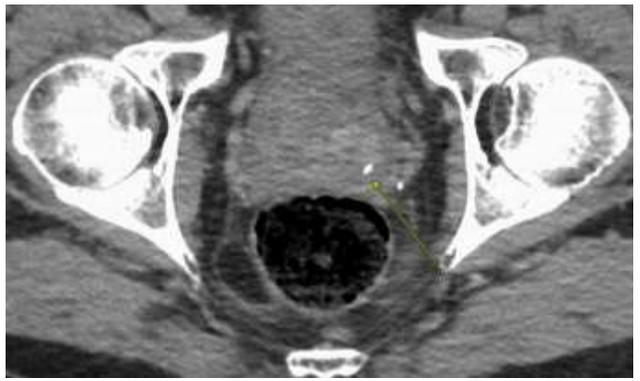


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UC San Diego CT Scan to Determine Location and Amount of Prostate Calcification
May 9, 2023

“Scattered Calcifications in the Prostate with Heterogeneous Enhancement.”

LARRY SMARR

Signed by: Cynthia Santillan, MD, UC San Diego

Prostate Cancer
Therapy Alternatives

1. **Active Surveillance and Watchful Waiting**
2. **Surgical Removal of Prostate and Lymph Nodes**
3. **Androgen-Deprivation Plus Radiation Therapy**
4. **Focal Therapy (Ultrasound, Cryogenic, Laser)**

UCSD's Aditya Bagrodi, MD
Reviewed My Prostate Test Results on June 20, 2023
He Stated Options 1. (High Decipher Score) or 4. (Prostate Calcifications)
Were Not Compatible with Standard of Care Guidelines

LARRY SMARR

HLI's CEO David Karow, MD/PhD Introduced Me to the UCLA Team Who Performed a TULSA Cyberphysical Focal Therapy With Realtime MRI Imaging



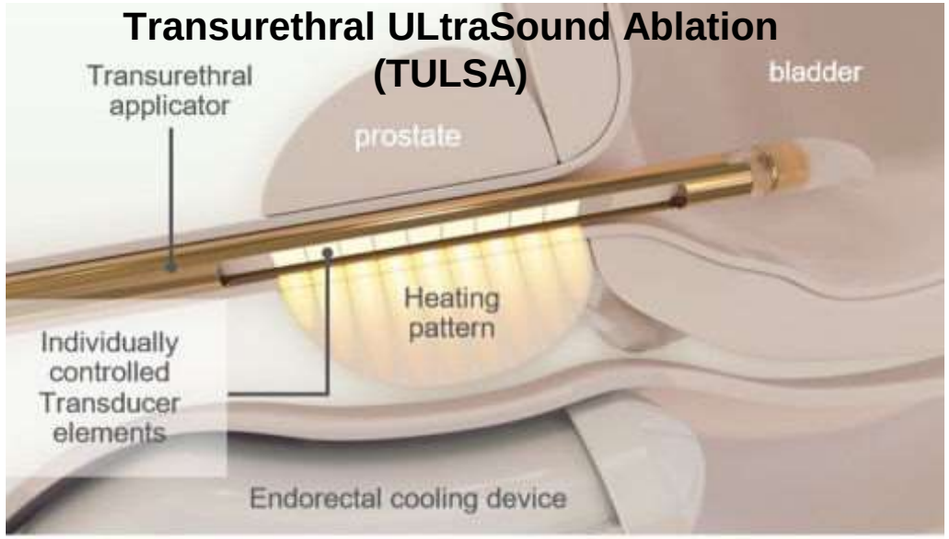
Steven Raman, MD
UCLA Director of Prostate MR Imaging and Interventions





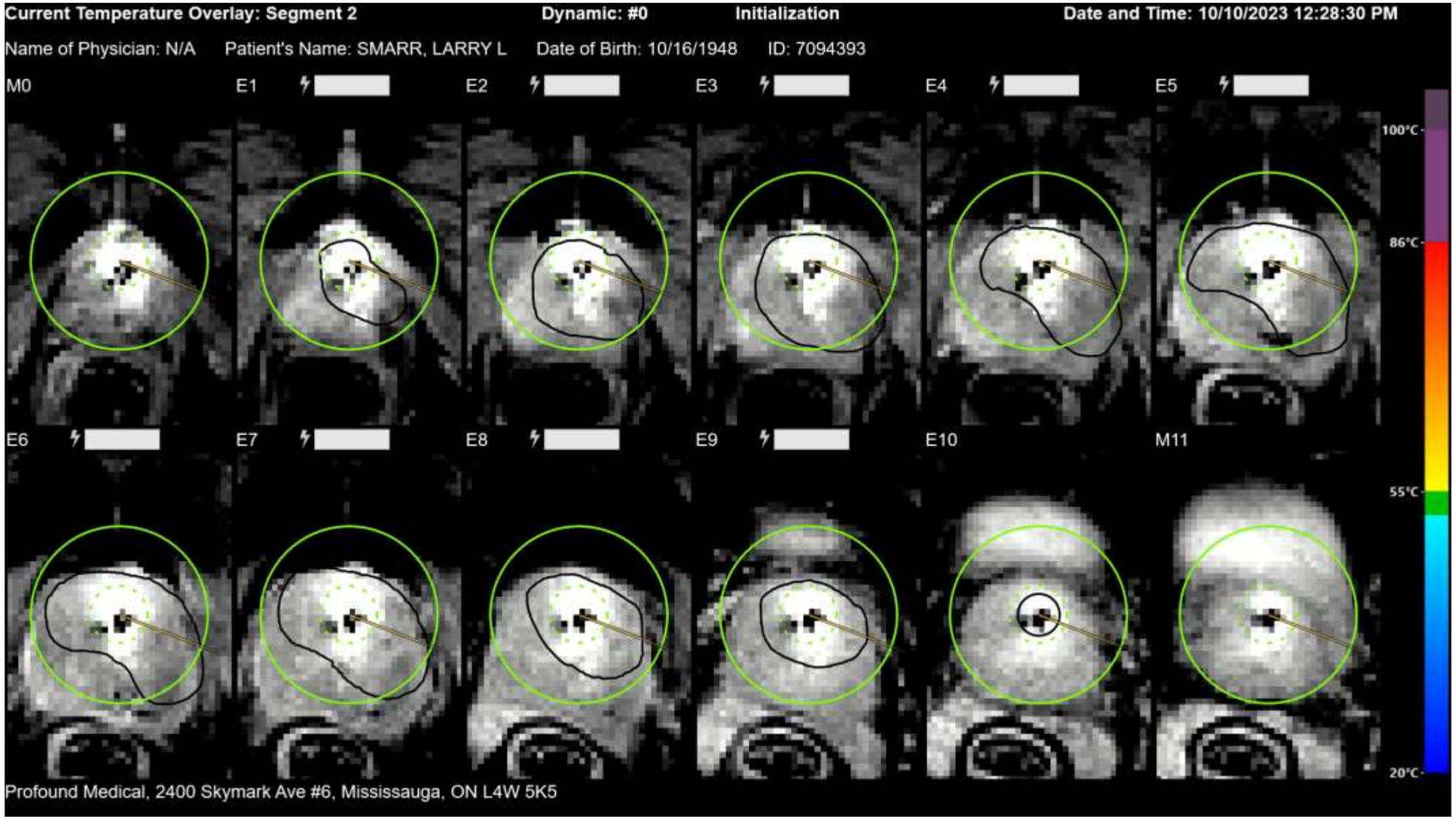
Wayne Brisbane, MD
UCLA Urology
Urologic Oncology

Transurethral ULtraSound Ablation (TULSA)



LARRY SMARR

MRI Slices Top to Bottom of Prostate During UCLA TULSA Over 48 Minutes: Current Temperature From Ultrasound Heating Every 5 Seconds

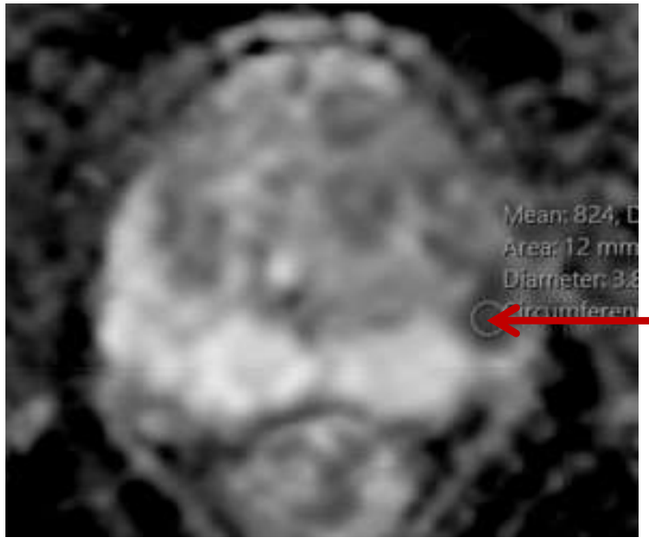


Max Temp 190° F

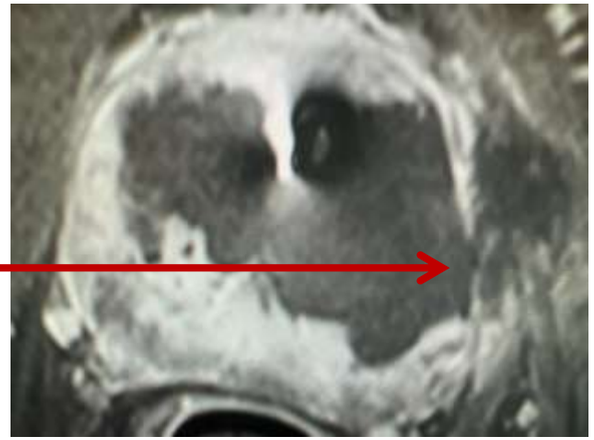
Source: Dr. Steve Raman, Interventional Radiology UCLA

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HLI Prostate MRI
Before and After TULSA



Tumor Location



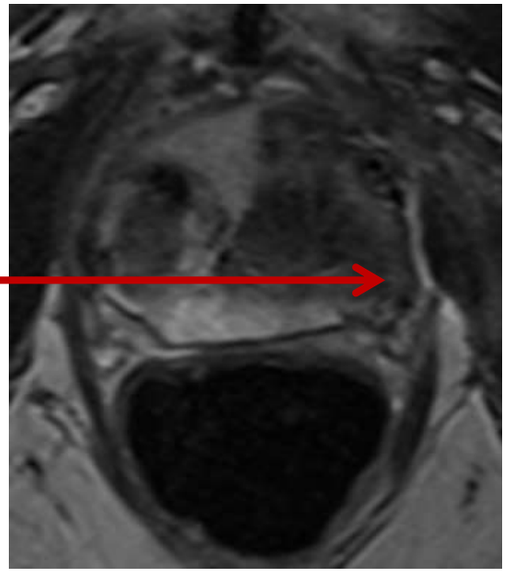
Pre-Treatment

Post-Treatment

Ablation Destroyed Cancer Tumor and 2/3 of Prostate Volume



Tumor Location



Followup Plan is: Active Surveillance with PSA and MRI every 3-6 months

LARRY SMARR