

TERZA EDIZIONE



PersonMed

PATIENT CENTRIC APPROACH ON ADVANCED PROSTATE CANCER

› IL VALORE DEL TEMPO ‹

16-17 GIUGNO 2022
NAPOLI

Renaissance Naples Hotel Mediterraneo
Via Ponte di Tappia, 25



mHSPC

L. Galli , G. Francolini

BP (DOB 27/06/1947)

Past clinical history:

Hypertension, Hypercholesterolemia, Prostate hypertrophy

Recent clinical history:

PSA 20

mpMRI: prostate of 48x42x45 mm, PIRADS 3

Prostate biopsy (March 2021): prostate adenocarcinoma Gleason 5+5

Diagnostic workup??

Bone scan+CT scan?

Choline PET/CT?

PSMA PET/CT?

High-risk localised disease/locally advanced disease	
Perform metastatic screening including at least cross-sectional abdominopelvic imaging and a bone-scan.	Strong
When using PSMA PET or whole body MRI to increase sensitivity, be aware of the lack of outcome data of subsequent treatment changes.	Strong

Evolving Role of Prostate-Specific Membrane Antigen-Positron Emission Tomography in Metastatic Hormone-Sensitive Prostate Cancer: More Questions than Answers?

For those with a newly diagnosed PCa who do not have systemic metastatic disease on CIM, therapy should be based on curative-intent standards of care whether disease on PSMA-PET remains localized to regional lymph nodes or extends to disease outside of the pelvis

Until data provide better guidance, if a PSMA-PET/CT is obtained, we advise clinicians to base treatment decisions on the extent of disease seen on CIM

Imaging Findings	Recommendations for Newly Diagnosed HSPC

Avoid the
«see more-to-do-less» strategy!

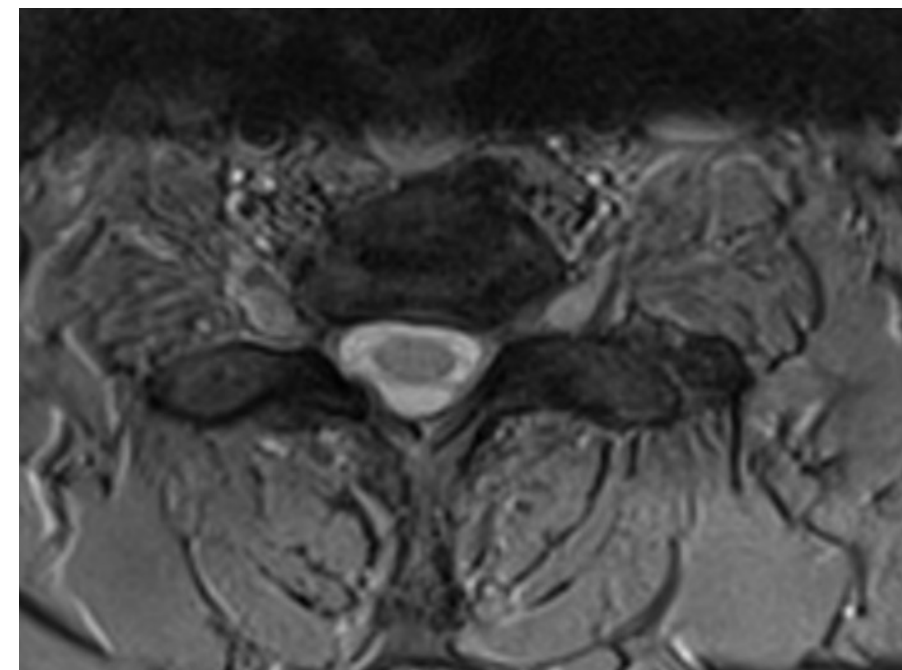
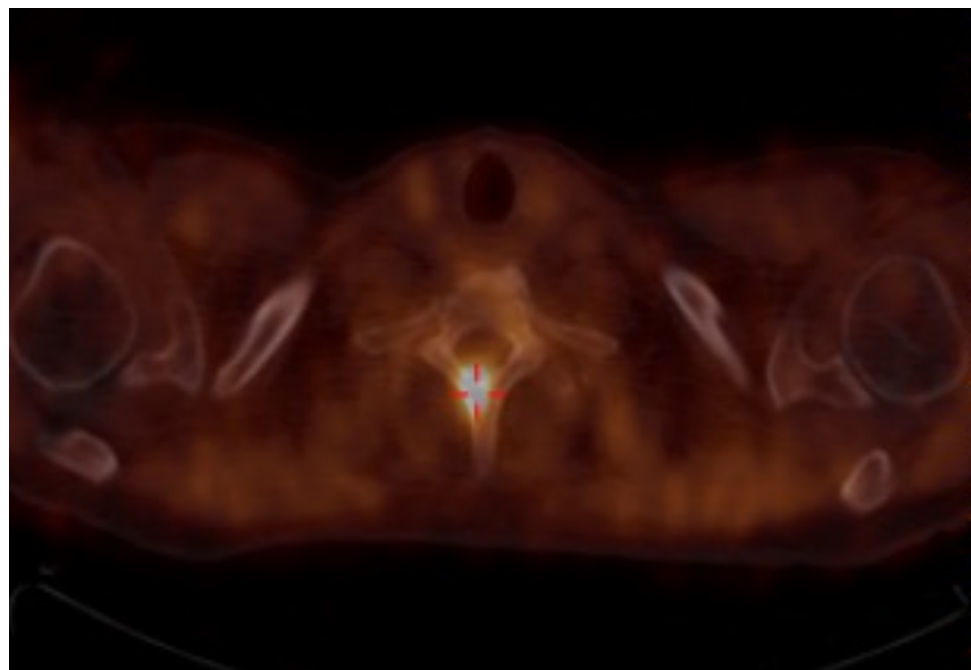
cM+/beyond pelvic LN-positive:	Standard therapy for mHSPC by disease status
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CT scan (26/03): Negative

Bone scan 02/04: Suspect on T1

Cervical MRI: Suspect on T1

PET 15/04: Positive on T1



Up to 2021..

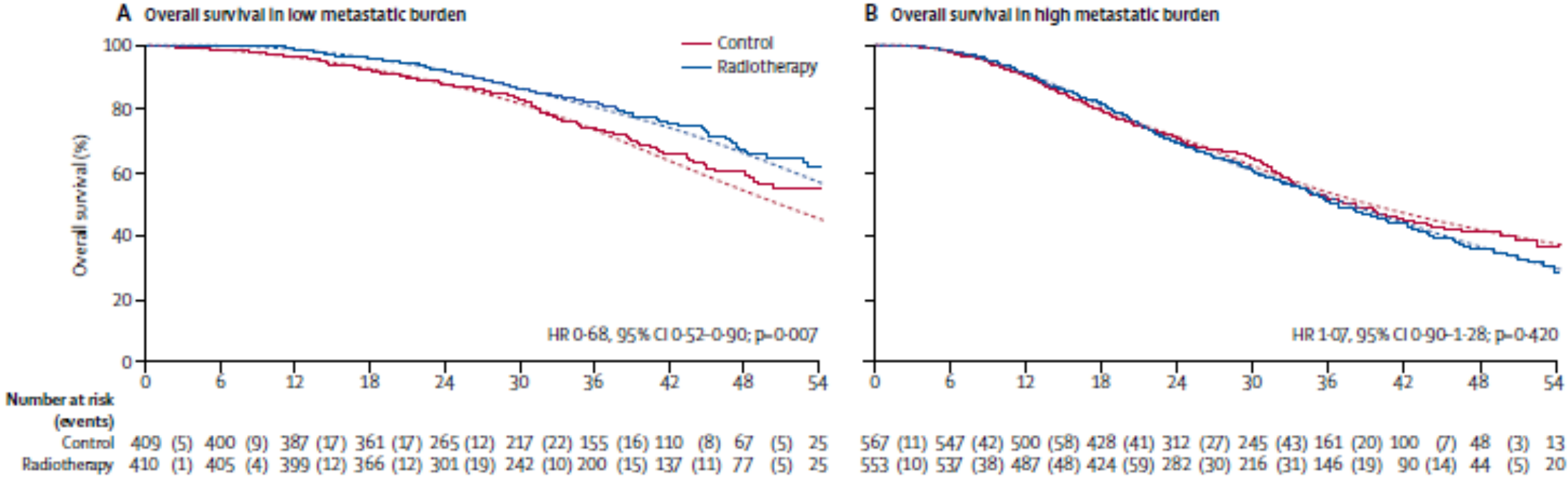
ADT alone

ADT+RT on Primary

ADT+RT on Primary and M+

ADT+RT on M+

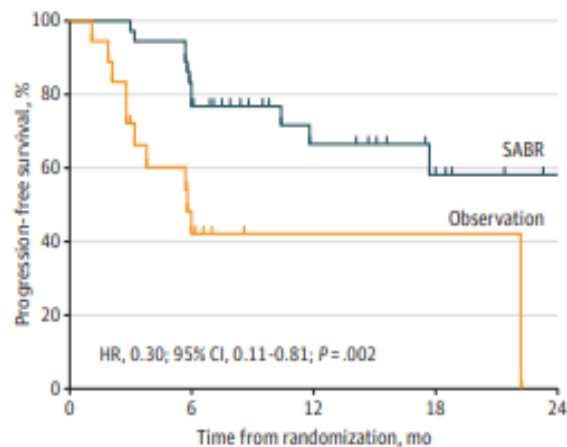
Radiotherapy to the primary tumour for newly diagnosed, metastatic prostate cancer (STAMPEDE): a randomised controlled phase 3 trial



Outcomes of Observation vs Stereotactic Ablative Radiation for Oligometastatic Prostate Cancer

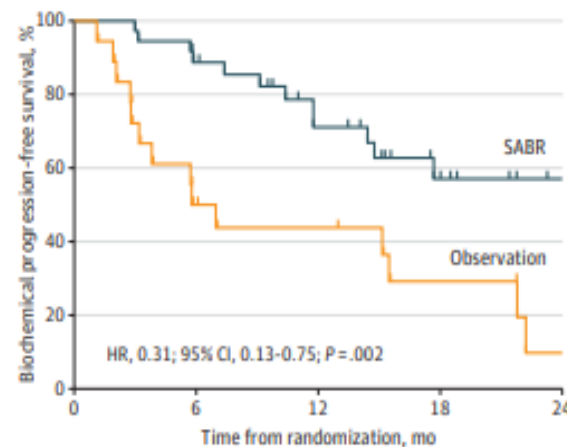
The ORIOLE Phase 2 Randomized Clinical Trial

A Composite PFS stratified by study arm



No. at risk	0	6	12	18	24
SABR	36	26	13	7	2
Observation	18	8	1	1	0

B Biochemical PFS stratified by study arm



No. at risk	0	6	12	18	24
SABR	36	28	20	10	4
Observation	18	9	7	4	1

54 men with recurrent hormone-sensitive prostate cancer and 1-3 metastases (no ADT)

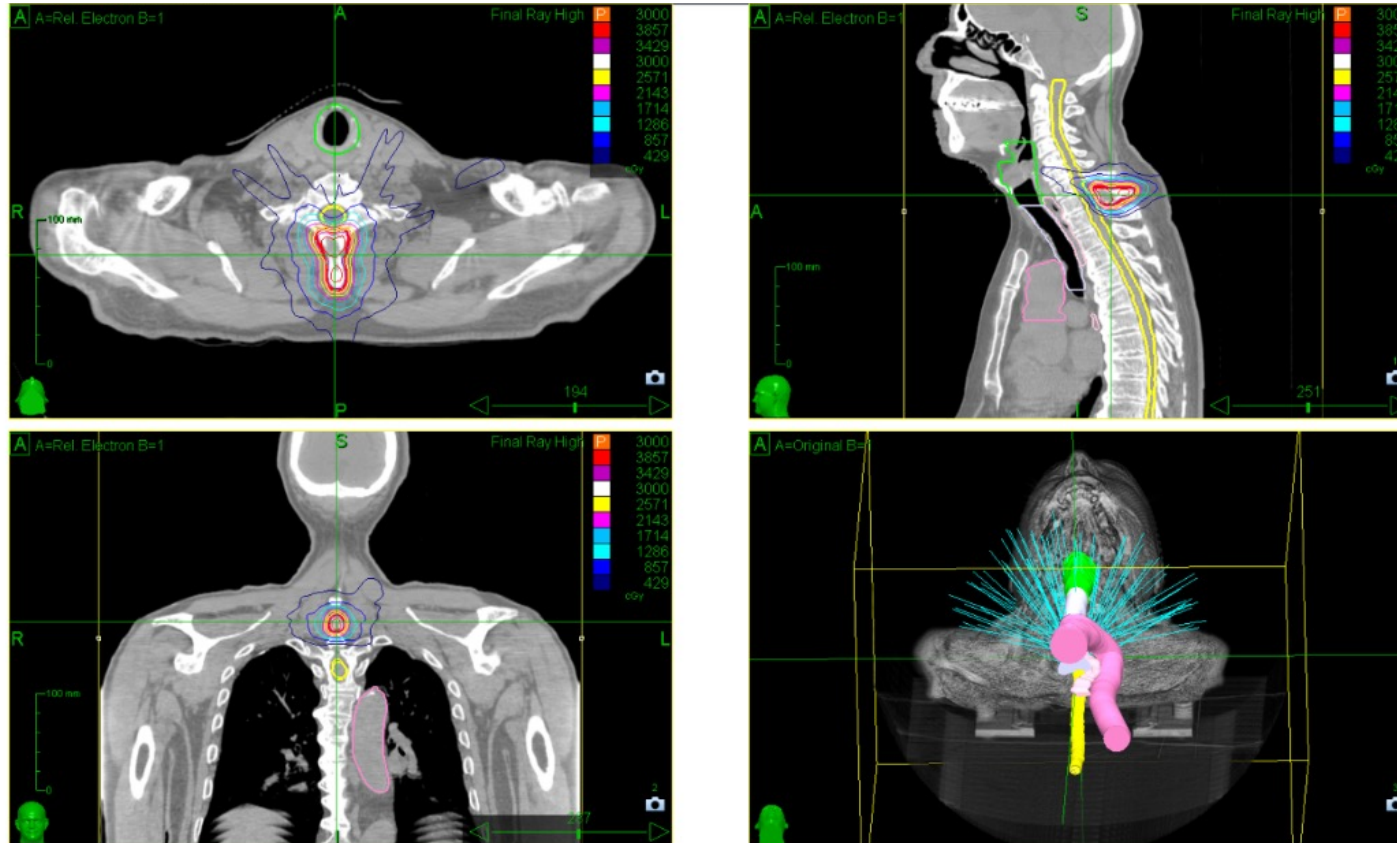
Randomized in a 2:1 ratio to receive SABR or observation

Treatment with SABR improved median progression-free survival (P = .002).

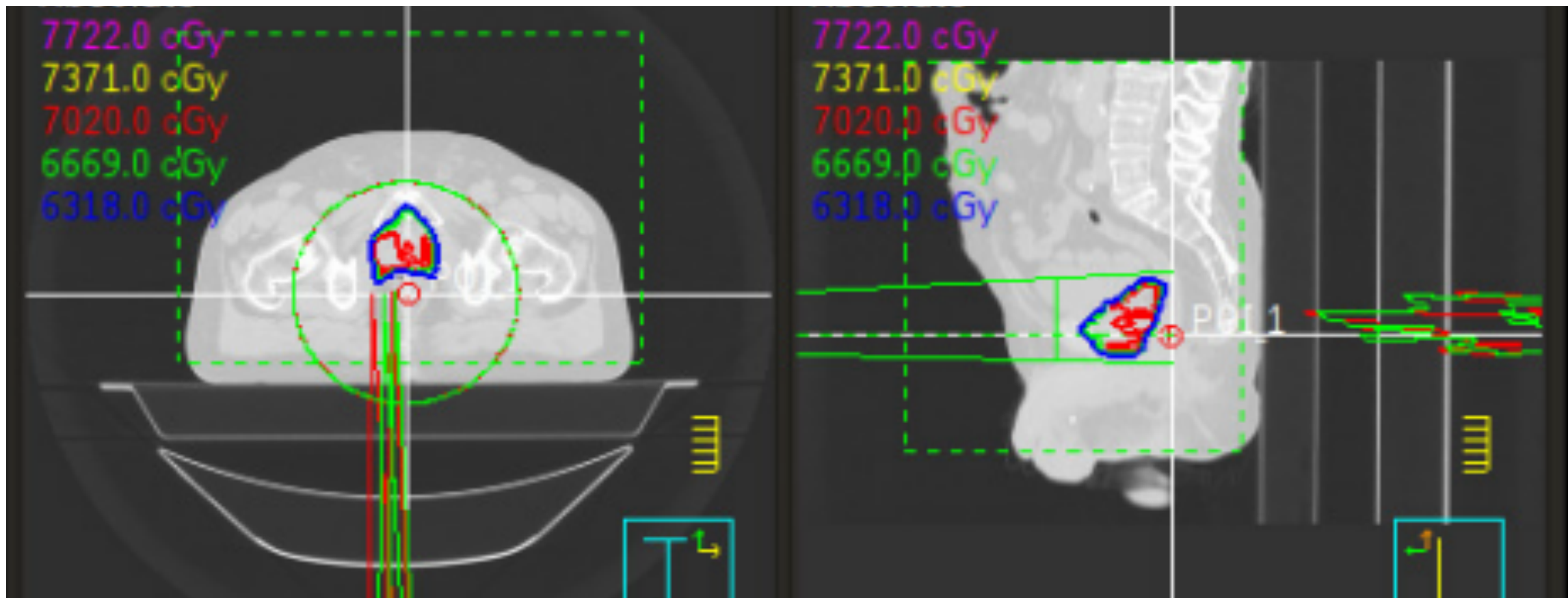
Total consolidation of PSMA radiotracer-avid disease decreased the risk of new lesions at 6 months (P = .006)

Patient started ADT but had a concomitant treatment due to complicated anal fistula... so we were forced to start from PFS benefit...

30 Gy in 3 fraction to 70% IDL administered with Cyberknife robotic stereotactic technique (26/05-28/05)



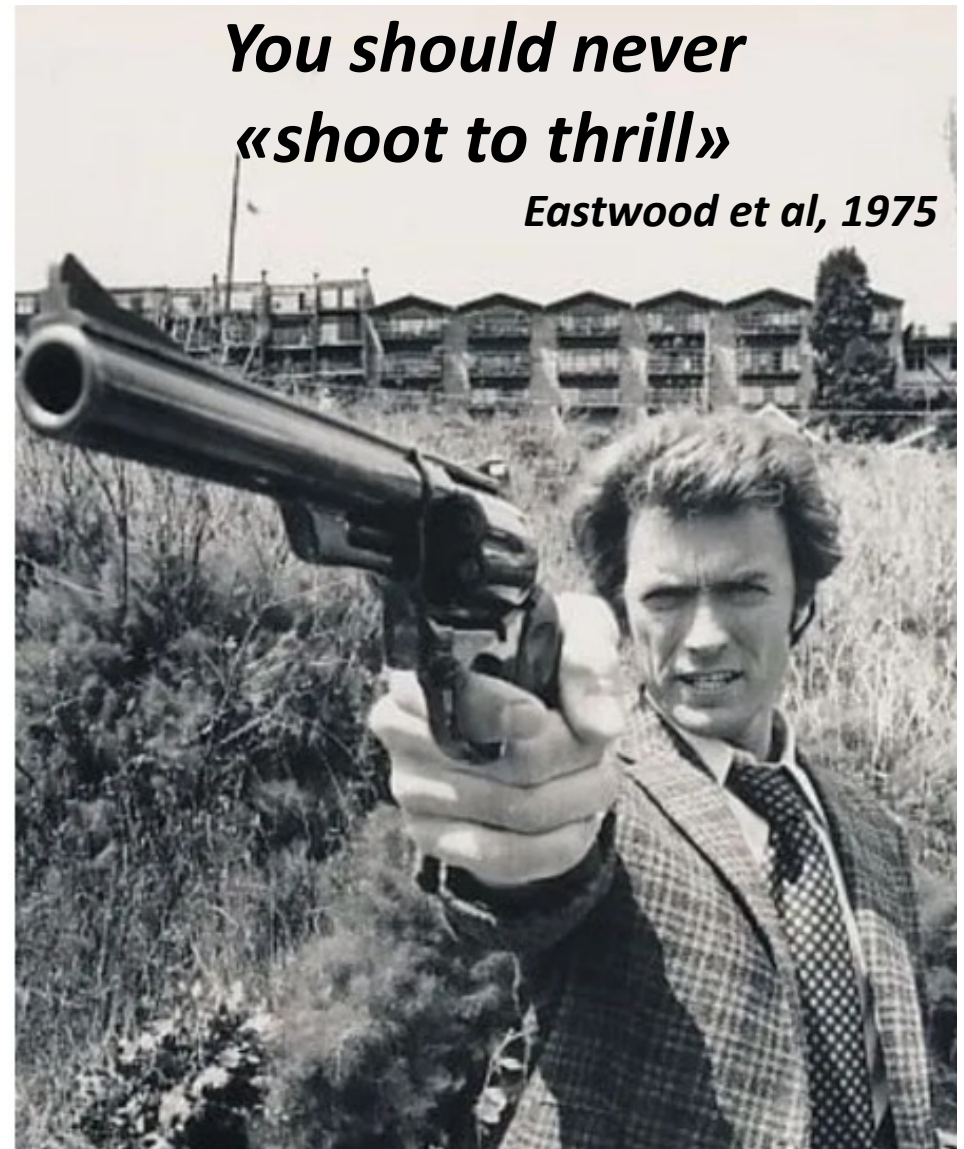
After fistula recovery, patient started prostate radiotherapy on 01/12/2021
(70.2 Gy in 26 fractions, IMRT VMAT)



Regimen	Preferred Dose/Fractionation	n)
		Low Volume M1 ^a
EBRT		
Moderate Hypofractionation (Preferred)	3 Gy x 20 fx 2.7 Gy x 26 fx 2.5 Gy x 28 fx	
	2.75 Gy x 20 fx	✓
Conventional Fractionation	1.8–2 Gy x 37–45 fx	
Ultra-Hypofractionation	7.25–8 Gy x 5 fx 6.1 Gy x 7 fx	
	6 Gy x 6 fx	✓

(alpha/beta 1.5)

- 36 Gy in 6 fractions: 77.1 Gy EQD2
- 55 Gy in 20 fractions: 66.8 Gy EQD2
- 70.2 Gy in 26 fractions: 84.2 Gy EQD2



Up to 2021..

ADT alone

ADT+RT on Primary

ADT+RT on Primary and M+

ADT+RT on M+

After 2021..

ADT+ARsi alone

ADT+ARsi+RT on Primary

ADT+ARsi+RT on Primary and M+

ADT+ARsi+RT on M+

APALUTAMIDE: TITAN

Dual primary endpoint: OS PFS

“All-comer” patient population

Key Eligibility Criteria

Castration sensitive
Distant metastatic disease by ≥ 1 lesion on bone scan
ECOG PS 0 or 1

On-Study Requirement

Continuous ADT

Permitted

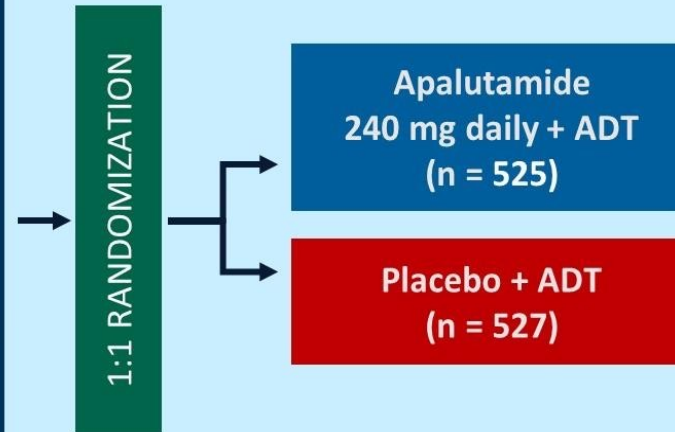
Prior docetaxel
ADT ≤ 6 mo for mCSPC or ≤ 3 yr for local disease
Local treatment completed ≥ 1 yr prior

Stratifications

Gleason score at diagnosis (≤ 7 vs ≥ 8)
Region (NA and EU vs all other countries)
Prior docetaxel (yes vs no)

N = 1052

Dec 2015 –
Jul 2017



Dual primary end points

- OS
- rPFS

Secondary end points

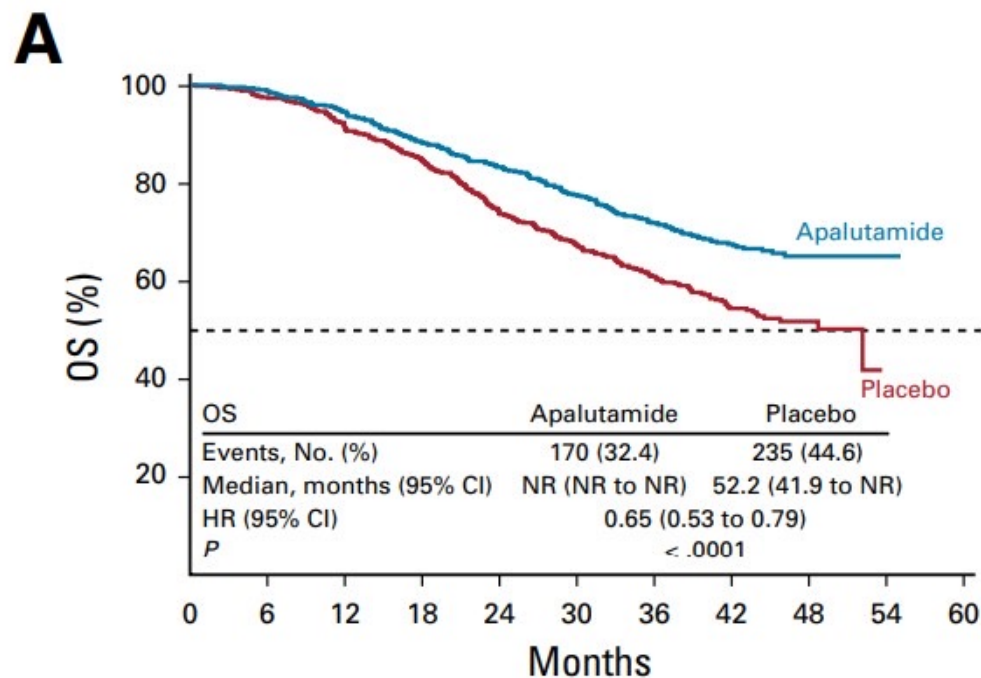
- Time to cytotoxic chemotherapy
- Time to pain progression
- Time to chronic opioid use
- Time to skeletal-related event

Exploratory end points

- Time to PSA progression
- Second progression-free survival (PFS2)
- Time to symptomatic progression

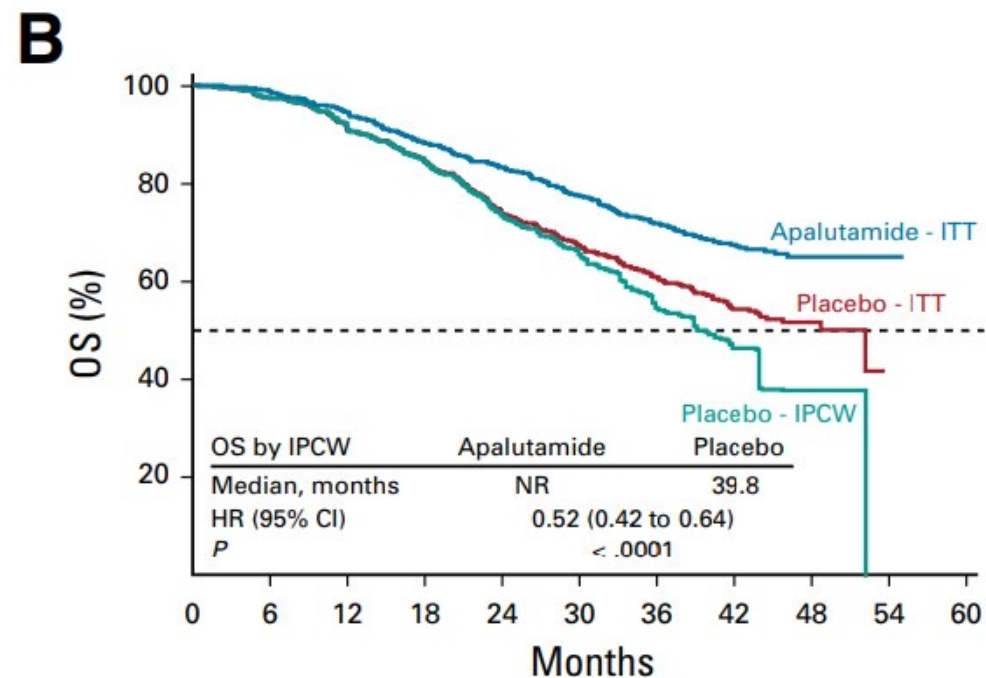
ECOG PS, Eastern Cooperative Oncology Group performance status; NA, North America; PSA, prostate-specific antigen; rPFS, radiographic progression-free survival.

Kaplan-Meier estimates of (A) OS and (B) OS adjusted for patient crossover from placebo to apalutamide using the IPCW sensitivity analysis



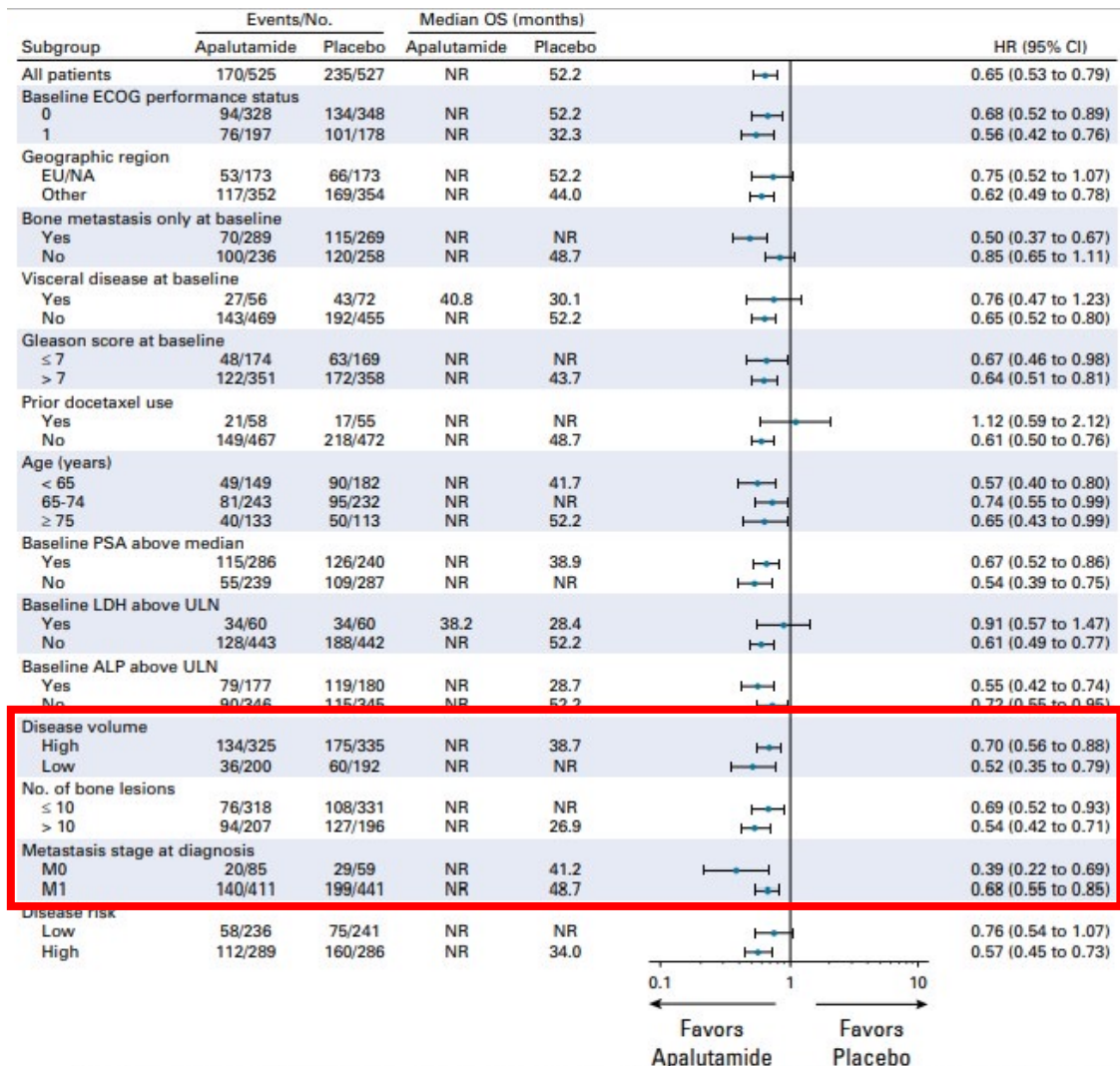
No. at risk:

Apalutamide	525	513	489	452	425	394	362	227	52	3	0
Placebo	527	510	474	436	374	339	301	181	43	0	0

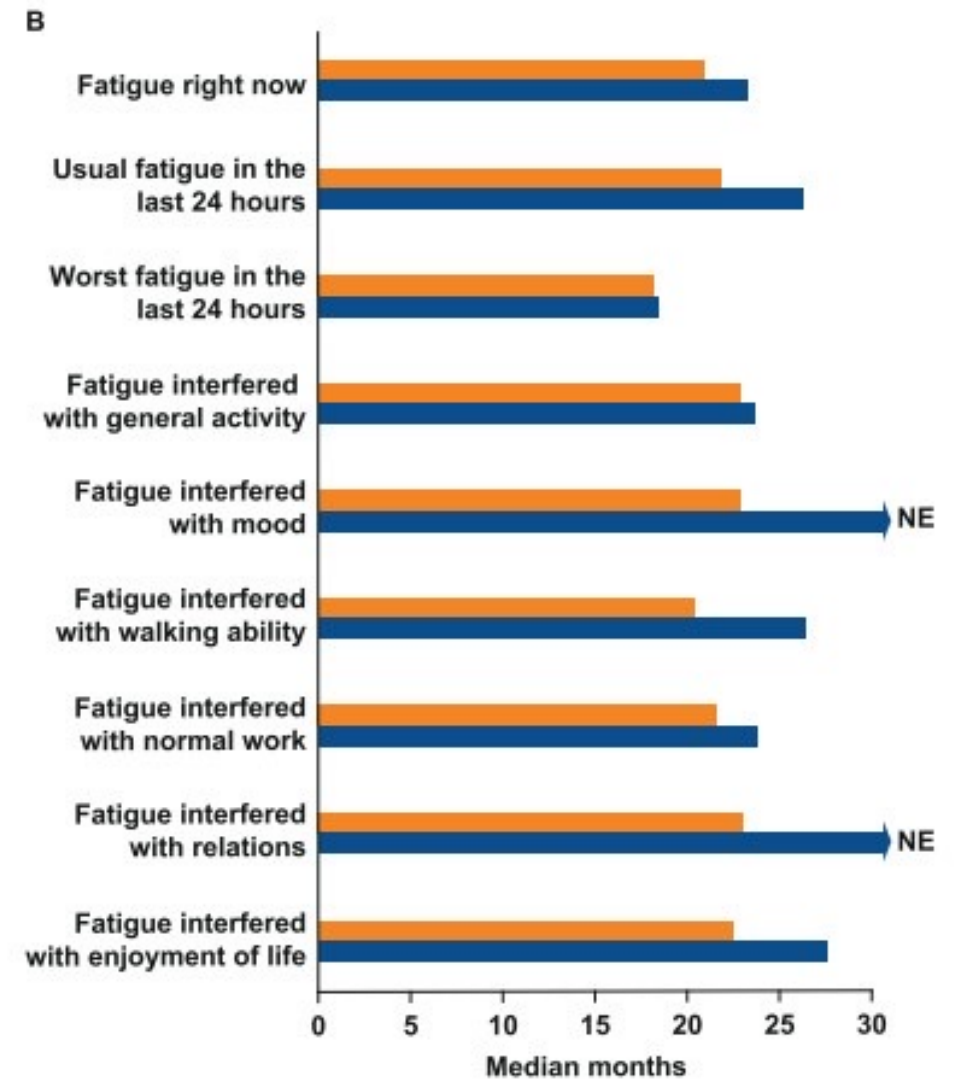
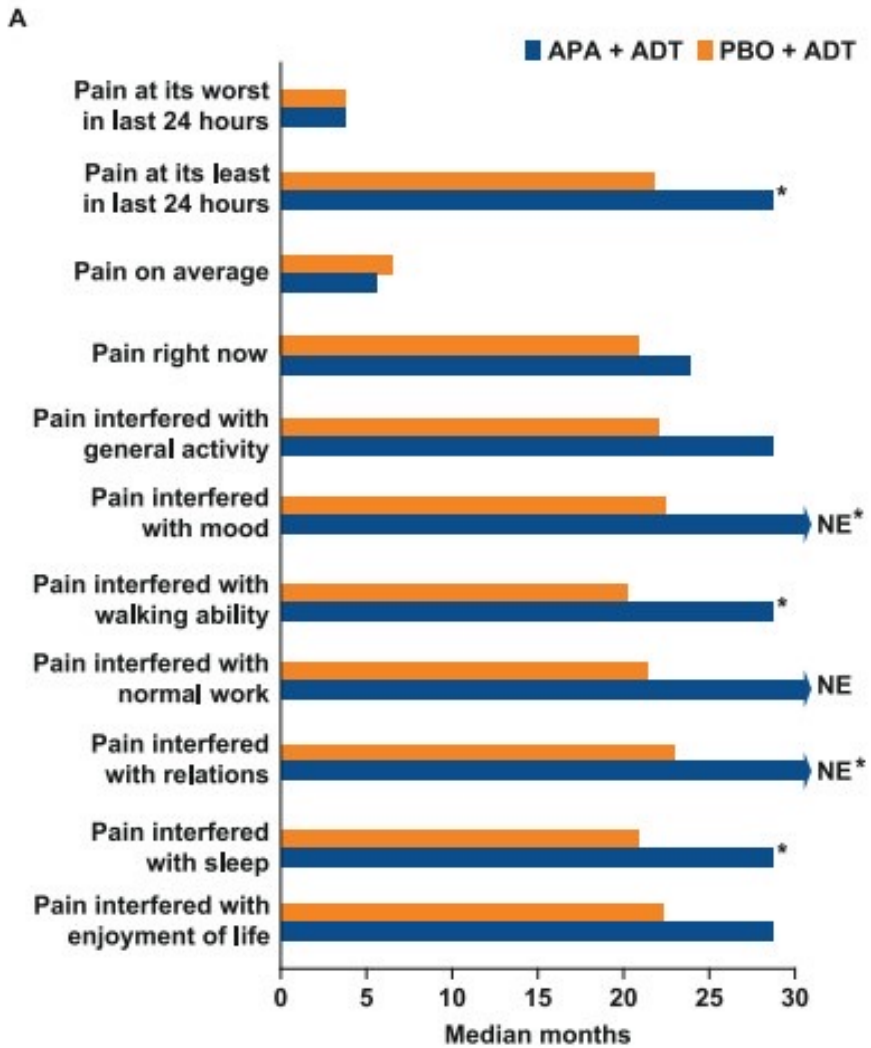


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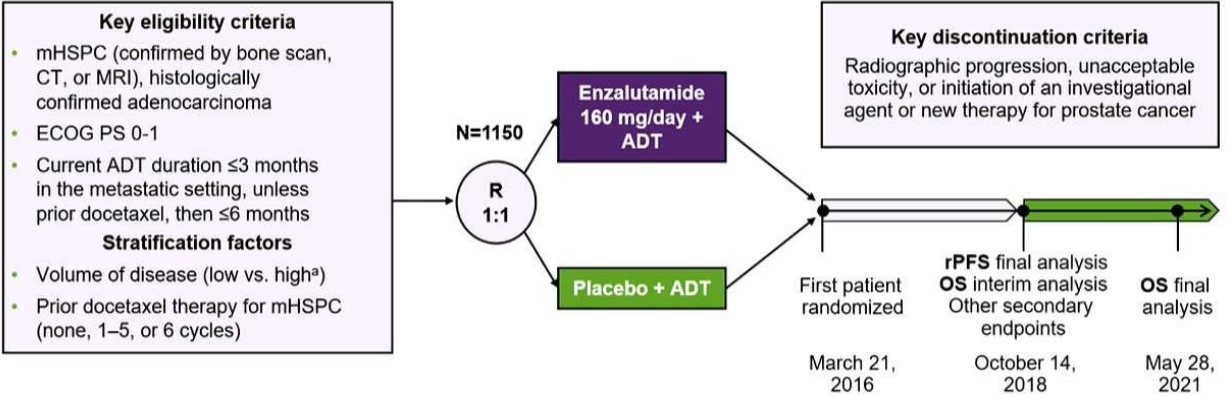


Outcome not related to the disease volume



Agarwal , The Journal of Urology 2021

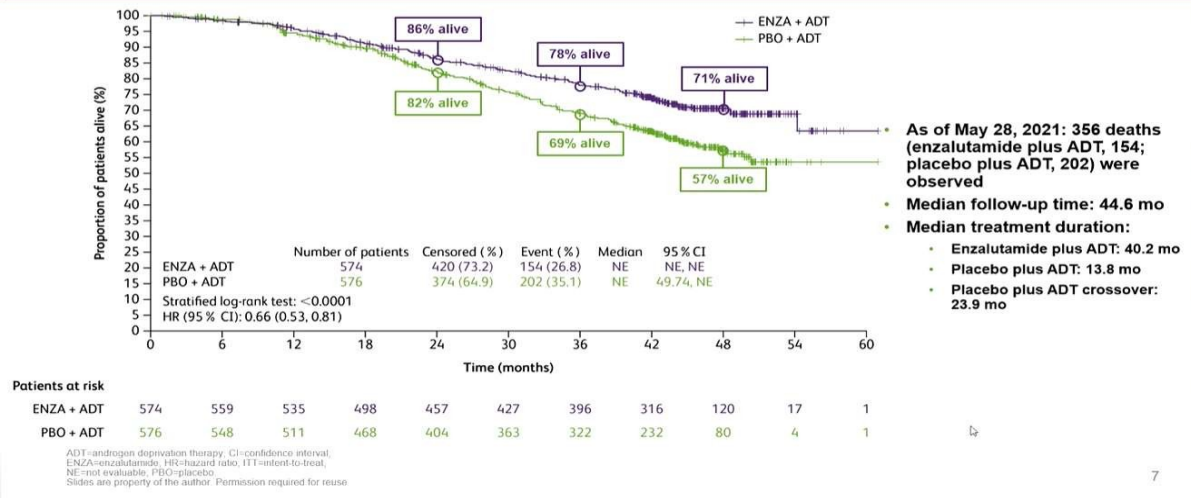
ARCHES study design



^aDefined as metastases involving the viscera or, in the absence of visceral lesions, ≥4 bone lesions, ≥1 of which must be in a bony structure beyond the vertebral column and pelvic bone. ADT=androgen deprivation therapy, CT=computed tomography, ECOG PS=Eastern Cooperative Oncology Group performance status, mHSPC=metastatic hormone-sensitive prostate cancer, MRI=magnetic resonance imaging, OS=overall survival, rPFS=radiographic progression-free survival. Slides are property of the author. Permission required for reuse.

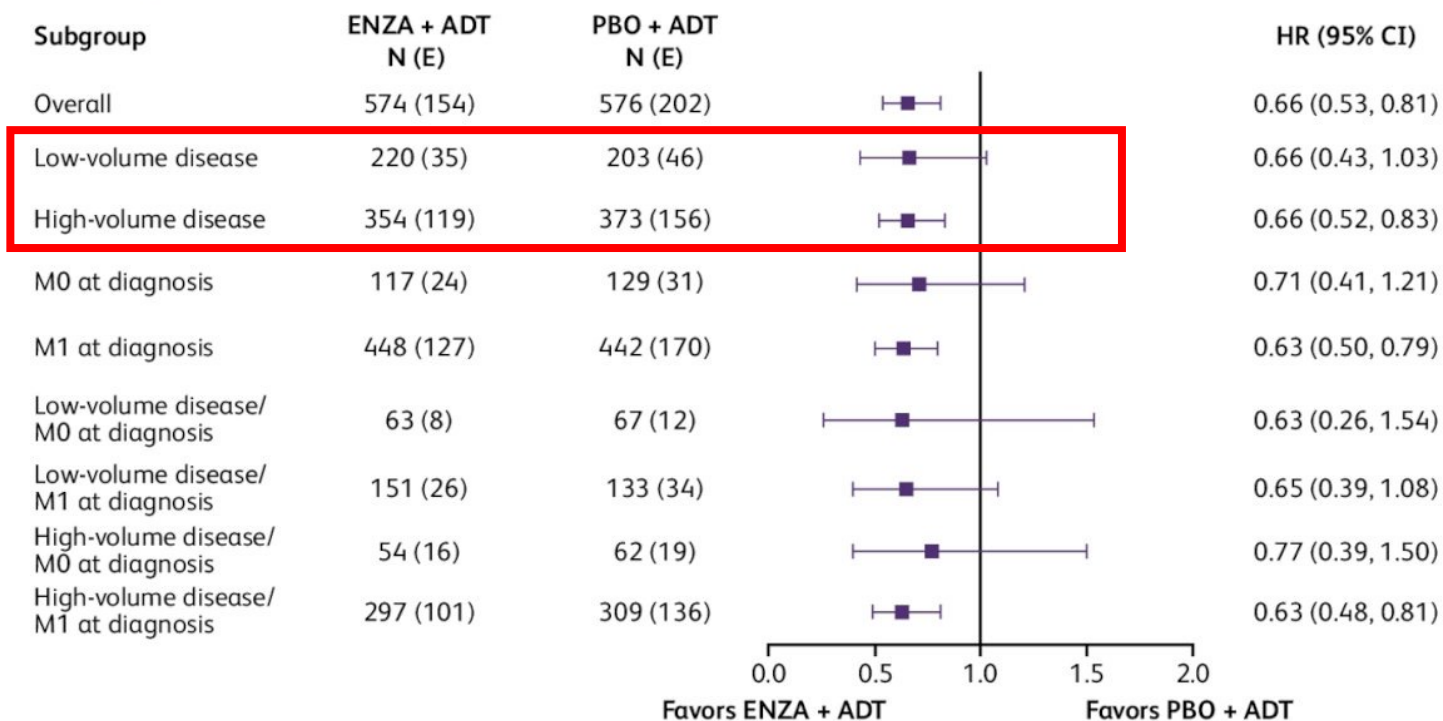
ESMO 2021

Overall survival (ITT)



ADT=androgen deprivation therapy, CI=confidence interval, ENZA=enzalutamide, HR=hazard ratio, ITT=intent-to-treat, NE=not evaluable, PBO=placebo. Slides are property of the author. Permission required for reuse.

Figure 1. OS in Patients With Low- and High-Volume^a Disease and M0 and M1 disease at Initial Diagnosis



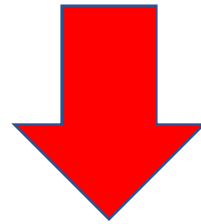
Outcome not related to the disease volume

^aHigh-volume disease was defined as presence of metastases involving the viscera or, in the absence of visceral lesions, ≥ 4 bone lesions, ≥ 1 of which must have been in a bony structure beyond the vertebral column and pelvic bone, per CHAARTED criteria.⁸
 ADT=androgen deprivation therapy; CI=confidence interval; E=number of events; M0=no distant metastases; M1=distant metastases; N=number of patients; OS=overall survival.

Andrew J. Armstrong, ASCO GU 2022

Patient reported only G1 acute GU toxicity (complete recovery) after 3 months

Patient continued ADT and is currently under follow up (last PSA 0.08 on 25 March 2022)



What will we do after 2-3 years from treatment start? *Should we try to withhold ADT?*

Take home messages:

- ADT alone should NOT be considered anymore the standard for de novo low burden mHSPC
- Arsi showed to improve OS in all comers population
- RT to primary should not be denied, especially if next generation imaging has been performed
- Always consider a «go for Ablative strategy»

Open questions

- Benefit of local treatment if maximal hormonal treatment is administered? (Waiting for PEACE-1 Final results)
- What about long term ADT+Arsi if Local ablative treatment has been performed?