

The value of molecular imaging and its impact on treatment choices

Professor Bertrand Tombal Professor Fabio Calabrò



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XTANDITM (enzalutamide) indications



XTANDI is indicated, as per the EMA SmPC:

- As monotherapy or in combination with ADT for the treatment of adult men with high-risk biochemical recurrent non-metastatic HSPC who are unsuitable for salvage radiotherapy
- In combination with ADT for the treatment of adult men with mHSPC
- For the treatment of adult men with high-risk non-metastatic CRPC
- For the treatment of adult men with mCRPC who are asymptomatic or mildly symptomatic after failure of ADT and in whom chemotherapy is not yet clinically indicated
- For the treatment of adult men with mCRPC whose disease has progressed on or after docetaxel therapy



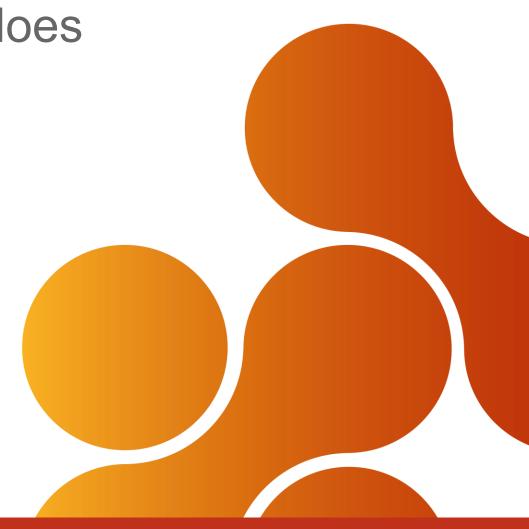


Next-generation imaging: How does it impact the evidence seen in trials?

A tale of diagnostic accuracy and clinical utility

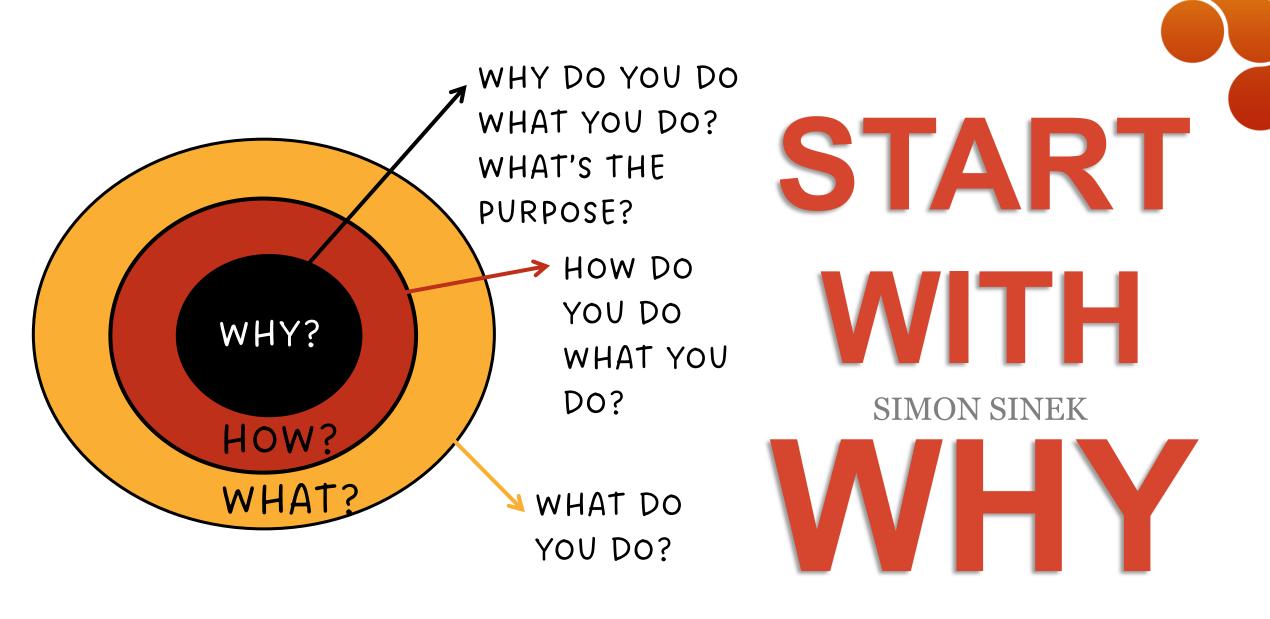
Professor Bertrand Tombal

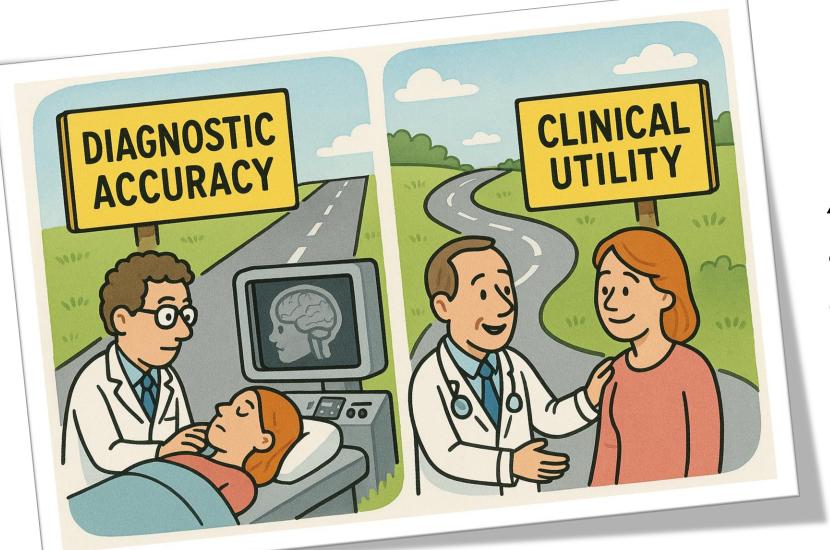
Université Catholique de Louvain and Cliniques Universitaires Saint-Luc, Brussels, Belgium



Disclosures

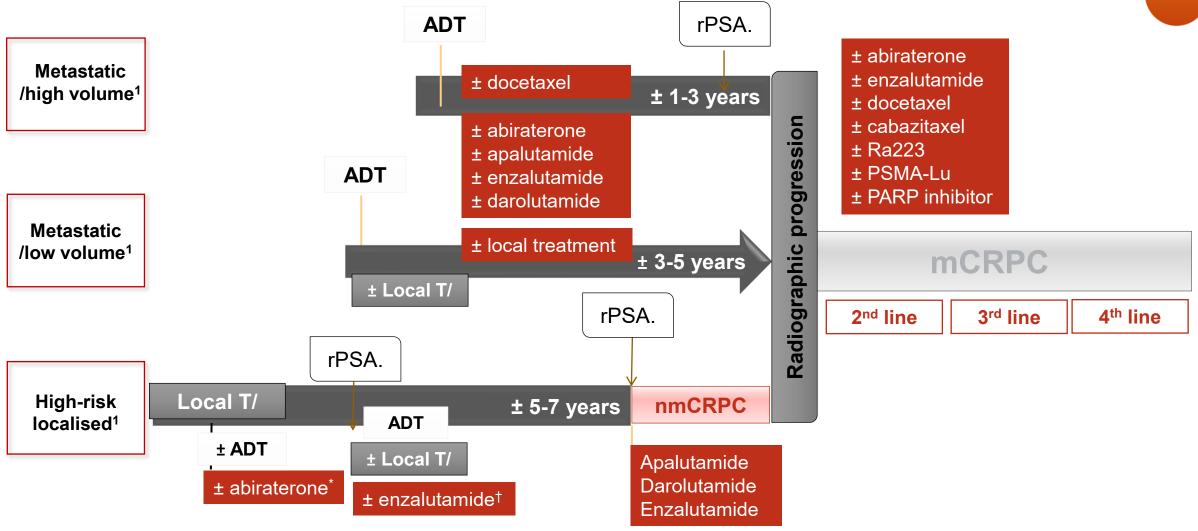
- Professor and Chairman, Division of Urology, Cliniques universitaires Saint Luc, Brussels, Belgium
- Past President, European Organization Of Research and Treatment of Cancer (EORTC)
- Investigator and paid advisor for Amgen, Astellas, Bayer, Janssen, Ferring, Pfizer, Sanofi, Myovant
- The speaker has received an honorarium from Astellas for this presentation
- This presentation reflects the personal view of Bertrand Tombal





A tale of diagnostic accuracy and clinical utility

Advanced PCa landscape in 2025



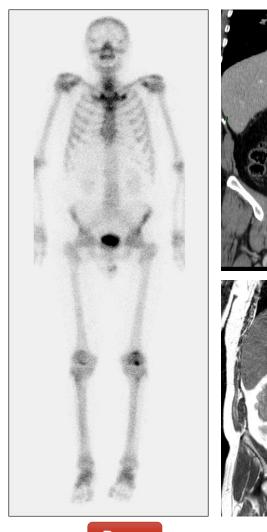
Adapted from Gillessen et al., 2025.

^{*}Abiraterone is neither approved nor reimbursed in this high-risk localised setting;² †Indicated for patients with nmHSPC with high-risk biochemical recurrence, defined as PSA-DT of ≤9 months and a PSA level of ≥2 ng/ml above nadir after RT or ≥1 ng/ml after RP with or without postoperative RT.³

ADT, androgen deprivation therapy; (n)mCRPC, (non) metastatic castration resistant prostate cancer; PCa, prostate cancer; PSA, prostate-specific antigen; rPSA, PSA recurrence; RT, radiotherapy; SRE, skeletal-related event; SRE and deterioration of health related-quality of life; T/, treatment.

^{1.} Gillessen S et al. Eur Urol 2025;87(2):157-216; 2. ZYTIGA (abiraterone acetate) Summary of Product Characteristics; 3. Freedland SJ, et al. N Engl J Med 2023;389:1453–1465. MAT-NL-XTD-2025-00034 | July 2025

From conventional to next-generation imaging...







Guideline approved !! (Very) poor diagnostic performance

- All the trials included the patients based on conventional imaging
- Patients with mHSPC have been further stratified based on the timing and extent of disease from conventional imaging and used that information when implementing the results of the trials

Bone

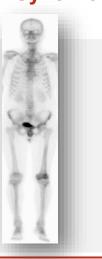
Soft

mHSPC segmentation

Synchronous (de novo)

A.L. 63 year old (low-volume mHSCP)

Characteristics				
Notes:	Mild urinary symptoms (IPSS 15) No co-morbidities DRE T3a			
Gleason:	5/12 + target Gleason Grade ISUP 5			
PSA:	14.6 ng/ml			
Metastases:	1 large 20 mm PI-RADS 5 lesion and 1 pelvic bone metastases			
Bone scan:	1 hot spot left pubic-bone			



DP. A. 71 years old (high-volume mHSPC)

Characteristics				
Notes:	Acromio-clavicular pain No comorbidities			
Gleason:	7			
PSA:	>2500 ng/ml			
ALP:	450 UI/L			
Metastases:	Multiple bone metastases, including peripheral negative CT			



D.J 69 yo. (asynchronous low-volume mHNCP-oligo recurrent)

	Characteristics					
Notes:	2012: brachytherapy for intermediate risk-localised PCa T1c					
Gleason:	2012: Gleason 7 (3+4)					
PSA:	2012: 7.2 ng/ml PSA nadir: 1.2 ng/ml 2018: 2.1 ng/ml 2019: 19.4 ng/ml					
Metastases:	1 bone metastases					
CT scan: No lymph nodes, 1 bone metastases						



D.J 71 yo. (asynchronous high-volume mHSPC)

	Characteristics				
Notes:	2017: RRP for high-risk localised PCa (pT3a R0 N0)				
Gleason:	9 (5+4)				
PSA:	2017: 17.2 ng/ml PSA nadir: 0.01 ng/ml 2018: 4.4 ng/ml				
Metastases:	multiples lung metastases confirmed by EBUS				
Bone scan:	can: Negative				



Metachronous (metastases post diagnosis)

Fictional clinical case studies created for illustrative purposes; Images copyrighted to Cliniques universitaires Saint Luc, Brussels. ALP, alkaline phosphatase; CT, computed tomography; DRE, digital rectal examination; EBUS, endobronchic ultrasound; IPSS, international prostate symptom score; ISUP, International Society of Urological Pathology; mHSPC, metastatic hormone-sensitive prostate cancer; PCa, prostate cancer; PI-RADS, Prostate Imaging Reporting and Data System; PSA, prostate-specific antigen. MAT-NL-XTD-2025-00034 | July 2025

Early intensification strategy with ARPI in mHSPC

Agent	Study		PFS		mFU	os	os	
Agent		n	HR (95% CI)	р	m	HR (95% CI)	р	
	LATITUDE ^{1,2}	1199	0.47 (0.39-0.55)	<0.001	30.4	0.62 (0.51-0.76)	<0.001	
Abiratarana +	STAMPEDE M1 ³	1002	0.31 (0.26–0.37)	<0.001	40.0	0.61.(0.49–0.75)	<0.001	
Abiraterone + prednisone	PEACE 1 ITT ⁴	1172	0.54 (0.41–0.71)	<0.0001	52.8	0.82 (0.69–0.98)	0.030	
	PEACE 1 Docetaxel ^{4*}	710	0.50 (0.34–0.71)	<0.0001	45.6	0.75 (0.59–0.95)	0.017	
Apalutamide	TITAN ⁵	1052	0.48 (0.39-0.60)	<0.001	44.0	0.65 (0.53–0.79)	<0.0001	
Franciska maiska	ENZAMET ^{6,7} †	1125	0.40 (0.33–0.49)	<0.001	58.0	0.70 (0.58–0.84)	<0.0001	
Enzalutamide	ARCHES ^{8,9}	1150	0.39 (0.30-0.50)	<0.001	44.6	0.66 (0.53–0.81)	<0.001	
Darolutamide	ARASENS Docetaxel ¹⁰	1306	N.R.		43.7	0.68 (0.57–0.80)	<0.001	
	ARANOTE ^{11,12}	669	0.54 (0.41–0.71)	<0.0001	25.3	0.78 (0.58–1.05)	NS	

Interpret with caution; table is for illustrative purposes only. Studies should not be compared.

ARPI, androgen receptor pathway inhibitor; CI, confidence interval; ITT, intent to treat; HR, hazard ration; m, month; mFU, median follow-up; mHSPC, metastatic hormone sensitive prostate cancer; NR, not reached; NS, not significant; OS, overall survival: PFS, progression-free survival.

^{*}Abiraterone + ADT + docetaxel triplet is not approved in the EU for mHSPC.†ENZAMET was not powered to analyse the results of OS in individual subgroups. Therefore, an improvement in OS cannot be demonstrated formally in any subgroup, including mHSPC patients taking XTANDI + LHRH therapy with or without concomitant docetaxel.

^{1.} Fizazi, K. et al. N Engl J Med 2017 27;377:352-360; 2, Fizazi K, et al. Lancet Oncol 2019;20:686–700; 3. James, N. D., et al. N Engl J Med 2017 27;377:338–351; 4. Fizazi K, et al. Lancet 2022;10336:1695–1707; 5. Chi K,.N, et al. J Clin Oncol 2021;39:2294–2303; 6. Davis ID. Et al. New Engl J Med 2019 381:121-131; 7. Sweeney C. et al. Lancet Oncol. 2023;2:323-334; 8. Amstrong A. et al. J Clin Oncol 2019 37:2974–2986; 9. Armstrong AJ, et al. J Clin Oncol 2022;40:1616–1622; 10. Smith et al. N Engl J Med 2022;386:1132–1142; 11. Saad et al J Clin Oncol 2024;42:4271–4281; 12. FDA approves darolutamide for metastatic castration-sensitive prostate cancer. Available at: FDA approves darolutamide for metastatic castration-sensitive prostate cancer | FDA. Last accessed: June 2025.

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- Patients with mHSPC have been further stratified based on the timing and extent of disease from conventional imaging and used that information when implementing the results of the trials
- Patients with nmHSPC (BCR) have been further stratified based on PSA kinetic, Gleason score, and time to recurrence

Bone

Not all BCR are the same !!!



EAU high risk

EAU low risk

After RP

PSA-DT ≤ 1 yr OR pathological ISUP grade group 4–5

After RT

Interval to biochemical failure ≤18 months OR biopsy ISUP grade group ≥4

After RP

PSA-DT >1 yr **AND** pathological ISUP <4

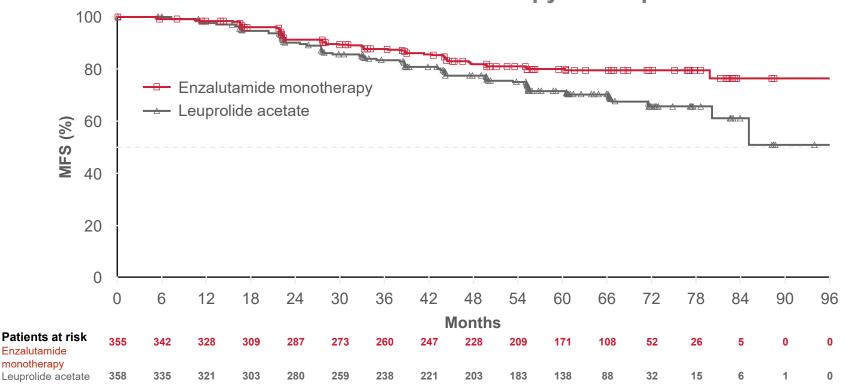
After RT

Interval to biochemical failure >18 months **AND** biopsy ISUP grade group <4

EMBARK: A Phase 3 RCT study of ENZ or PBO + leuprolide acetate and ENZ monotherapy in high-risk BCR prostate cancer







	Enzalutamide monotherapy (n=355)	Leuprolide acetate (n=358)
Median follow-up, mo	60.7	60.6
Events, n (%) Per BICR, median MFS (95% CI), mo	63 (17.7) NR (NR)	92 (25.7) NR (85.1–NR)

HR for metastasis or death (95% CI): 0.63 (0.46–0.87); *P*=0.005[†]

Adapted from Freedland SJ, et al. N Engl J Med 2023.

Data cutoff: January 31, 2023. Symbols indicate censored data.

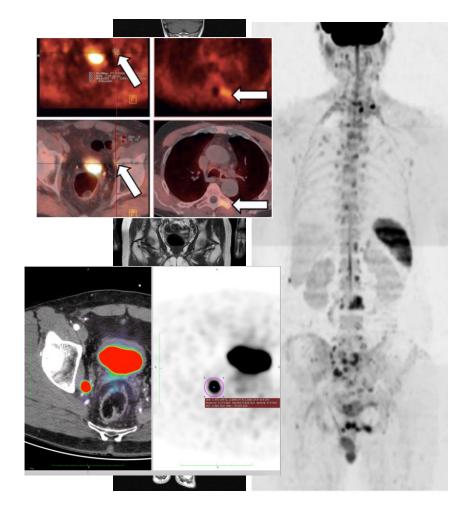
Freedland SJ, et al. N Engl J Med 2023;389:1453-1465.

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^{*}MFS defined as the time from randomisation to the date of earliest objective evidence of imaging-based progression by central imaging or death due to any cause. †The HR was based on a Cox regression model with treatment as the only covariate stratified by screening PSA, PSADT, and prior hormonal therapy as reported in the IWRS; relative to leuprolide acetate <1 favoring enzalutamide monotherapy; the two-sided P-value was based on a stratified log-rank test.

ADT, androgen deprivation therapy; BCR, biochemically recurrent; BICR, blinded independent central review; CI, confidence interval; ENZ, enzalutamide; HR, hazard ratio; ITT, intention-to-treat; MFS, metastasis-free survival; mo, months; NR, not reached; PBO, placebo.

From conventional to next-generation imaging...



Diagnostic accuracy¹

- Whole-body MRI and various PETs have been tested
- They significantly improve diagnostic accuracy
- If you use them in newly diagnosed high-risk PCa on SIM, you will end-up with "a lot" of oligometastatic patients...

Review

Consensus on molecular imaging and theranostics in prostate cancer ²



Stefano Fanti, Silvia Minozzi, Gerald Antoch, Ian Banks, Alberto Briganti, Ignasi Carrio, Arturo Chiti, Noel Clarke, Matthias Eiber, Johann De Bono, Karim Fizazi, Silke Gillessen, Sam Gledhill, Uwe Haberkorn, Ken Herrmann, Rodney J Hicks, Frederic Lecouvet, Rodolfo Montironi, Piet Ost, Joe M O'Sullivan, Anwar R Padhani, Jack A Schalken, Howard I Scher, Bertrand Tombal, R Jeroen A van Moorselaar, Heindrik Van Poppel, Hebert Alberto Vargas, Jochen Walz, Wolfgang A Weber, Hans-Jürgen Wester, Wim J G Oyen

WB-MRI assessment of metastatic spread in PCa: Therapeutic perspectives on targeted management of oligometastatic disease

Distribution of metastatic disease according to the target organ (bones, nodes, both) in 96 metastatic PCa patients (46 mHSPC and 50 mCRPC)

Distribution of abnormal LN within and outside the accepted eLND and RTOG/CTV area, here delineated based on Joniau et al. and Lawton et al.

Cita	All patients		≤3 metastases	
Site	mHSPC	mCRPC	mHSPC	mCRPC
Lymph nodes only, n (%)	13 (28)	17 (34)	3 (6.5)	11 (22)
Bone only, n (%)	14 (29)	16 (32)	7 (15)	11 (22)
Lymph nodes and bone, n (%)	19 (41)	17 (34)	3 (6.5)	3 (6)
Total	46	50	13	25

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mCRPC	mHSPC	mCRPC
17 (34)	3 (6.5)	11 (22)
16 (32)	7 (15)	11 (22)
17 (34)	3 (6.5)	3 (6)
50	13	25
	mCRPC 17 (34) 16 (32) 17 (34)	mCRPC mHSPC 17 (34) 3 (6.5) 16 (32) 7 (15) 17 (34) 3 (6.5)

13/46 oligometastatic M+ on new imaging modalities

	mHSPC (n=46)	mCRPC (n=50)
LN distribution regarding eLND area		
No Abnormal lymph nodes detected within the eLND the standard template or bone metastases	14	16
Abnormal lymph nodes within eLND standard template only	7*	10*
Abnormal lymph nodes outside the eLND standard template or bone metastases	25*	24*
LN distribution regarding RTOG/CTV irradiation area		
No abnormal lymph nodes detected within RTOG/CTV standard template	14*	16*
Abnormal lymph nodes detected within RTOG/CTV standard template only	12*	15*
Abnormal lymph nodes outside the RTOG/CTV standard template or bone metastases	20*	19*

Most lymph nodes detected outside standard treatment template

Adapted from Larbi A, et al. Prostate. 2016.

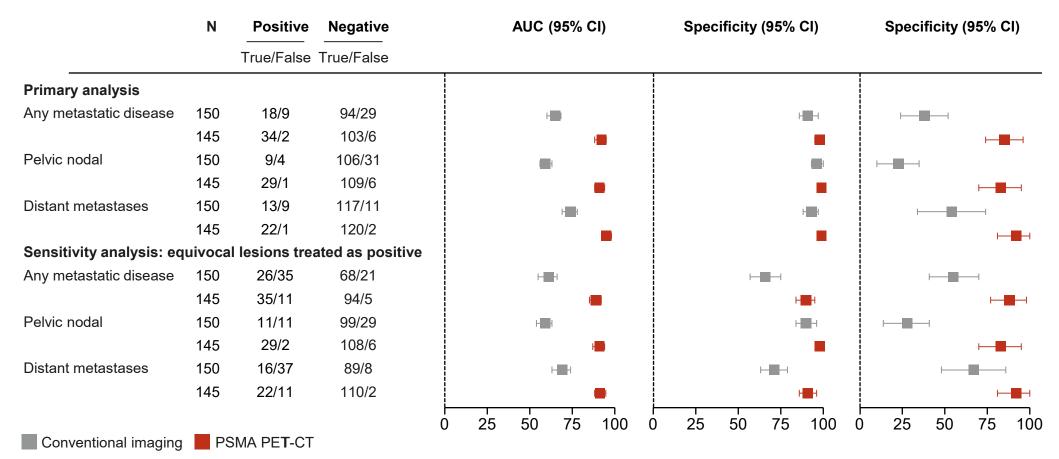
CTV, clinical target volume; eLND, elective lymph node dissection; LN, lymph node; M, metastasis; mCRPC, metastatic castration-resistant prostate cancer; mHSPC, metastatic hormone-naïve prostate cancer; MRI, magnetic resonance imaging; PCa, prostate cancer; RTOG, radiation therapy oncology group; WB. whole body: Larbi A. et al. Prostate. 2016:76:1024-1033.

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^{*}Data are numbers of patients.

Prostate-specific membrane antigen PET-CT in patients with high-risk PCa before curative-intent surgery or radiotherapy (proPSMA): A prospective, randomised, multi-centre study

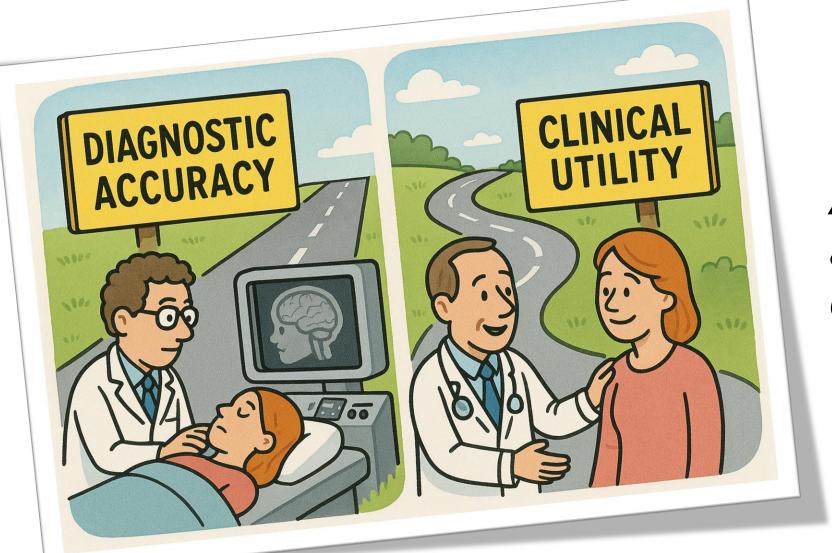
Accuracy, sensitivity, and specificity of conventional imaging compared with PSMA PET-CT



Adapted from Hofman MS, et al. Lancet 2020.

AUC, area under the curve; CI, confidence interval; CT, computed tomography; PCa, prostate cancer; PSMA, prostate-specific membrane antigen; PET, positron emission tomography. Hofman MS, et al. *Lancet* 2020;395:1208–1216.

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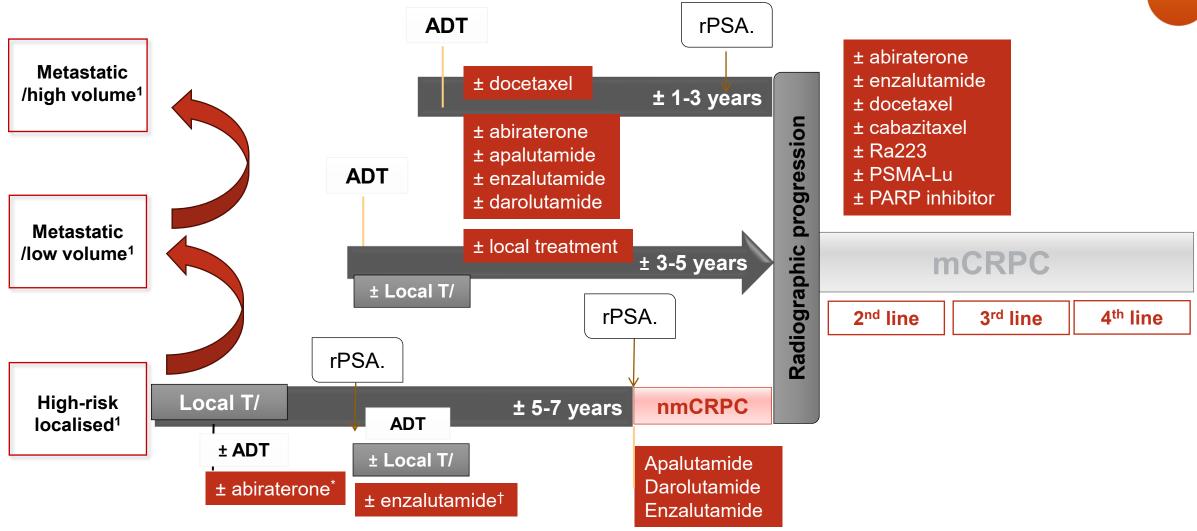


A tale of diagnostic accuracy and clinical utility

Image provided by the speaker.

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Advanced PCa landscape in 2025

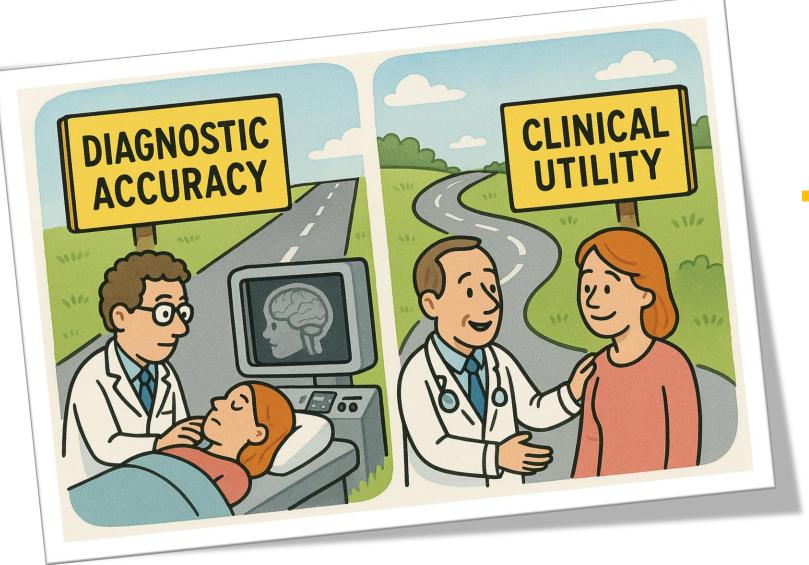


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ADT, androgen deprivation therapy; (n)mCRPC, (non) metastatic castration resistant prostate cancer; PCa, prostate cancer; PSA, prostate-specific antigen; rPSA, PSA recurrence; RT, radiotherapy; SRE, skeletal-related events; Sy, symptoms, SRE and deterioration of health related-quality of life; T/, treatment.

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In the mHSPC setting

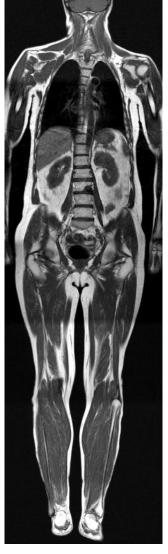
Image provided by the speaker. mHSPC, metastatic hormone sensitive prostate cancer. MAT-NL-XTD-2025-00034 | July 2025

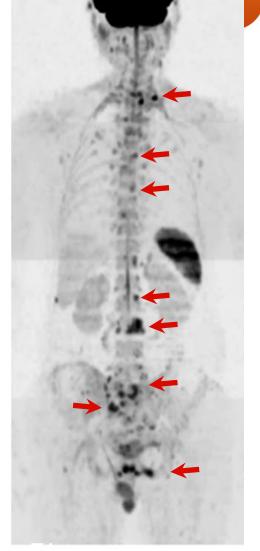
A.L. 63 years old



- Mild urinary symptoms (IPSS 15)
- PSA 14.6 ng/ml
- No comorbidities
- DRE T3a
- MRI pelvis: 1 large 20 mm PI-RADS 5 lesion and 1 pelvic bone metastases
- Biopsy: 5/12 + target Gleason Grade ISUP 5
- Bone scan: negative
- Patient is offered degarelix + enzalutamide and prostate RT
- Ask for a second opinion. He is offered WB-MRI

WB-MRI (+)



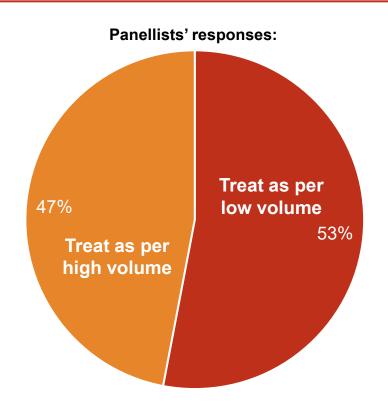


DWI

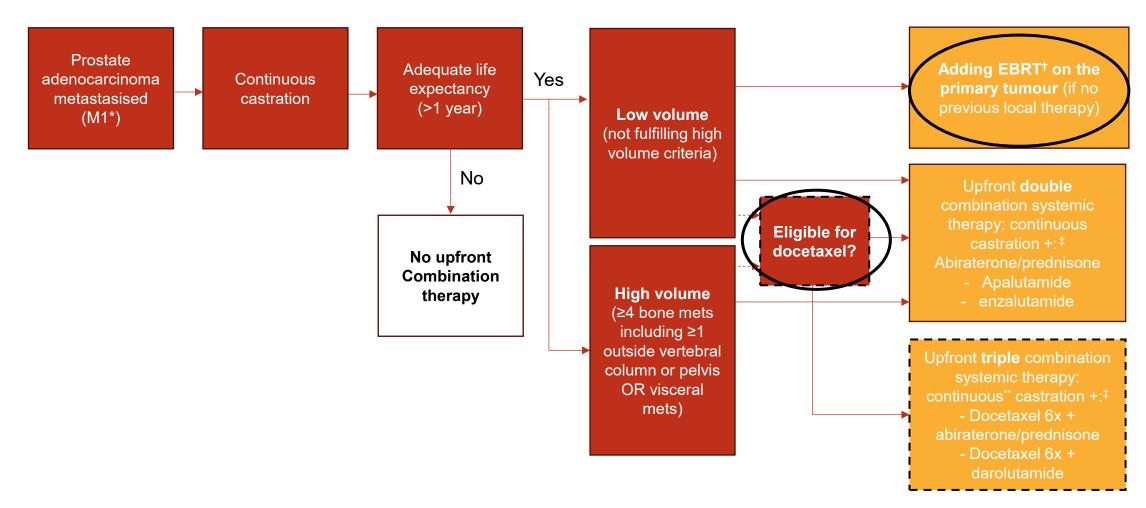
APCCC panel 2022



What would be the recommended treatment strategy for patients whose mHSPC is low volume on conventional imaging but high volume on next-generation imaging?



EAU guidelines



Adapted from EAU Guidelines on Prostate Cancer.

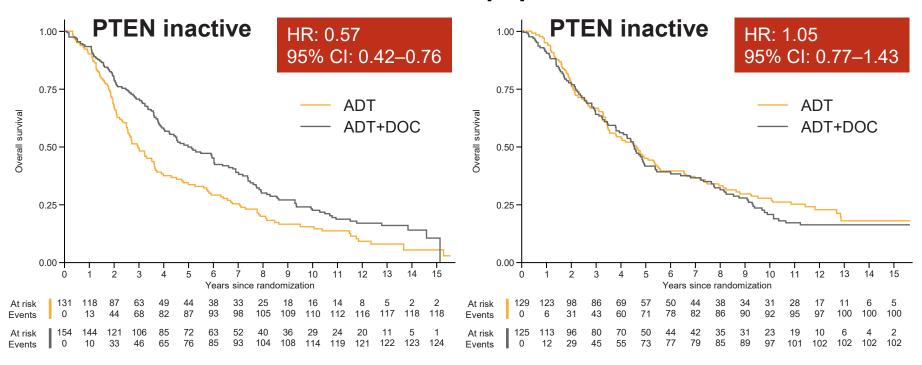
*Based on staging using combination of bone scan and CT; †EBRT: IMRT/VMAT + IGRT of the prostate (equivalent of up to 72 Gy in 2 Gy fractions); ‡Alphabetical order; ‡not for low volume, metachronous disease.

BCR, biochemical recurrence; EAU, European Association of Urology; EBRT, external beam radiotherapy; IGRT, image-guided radiotherapy; IMRT, intensity-modulated radiotherapy; ISUP, International Society of Urological Pathology; PSADT, prostate-specific antigen doubling time; RP, radical prostatectomy; RT, radiotherapy.

EAU. EAU-EANM-ESTRO-ESUR-ISUP-SIOG guidelines on prostate cancer. Available at: uroweb.org/guideline/prostate-cancer/. Last accessed: June 2025 MAT-NL-XTD-2025-00034 | July 2025

Transcriptome classification of PTEN inactivation to predict survival benefit from the addition of docetaxel to ADT for metastatic PCa: An ancillary study of the STAMPEDE trials

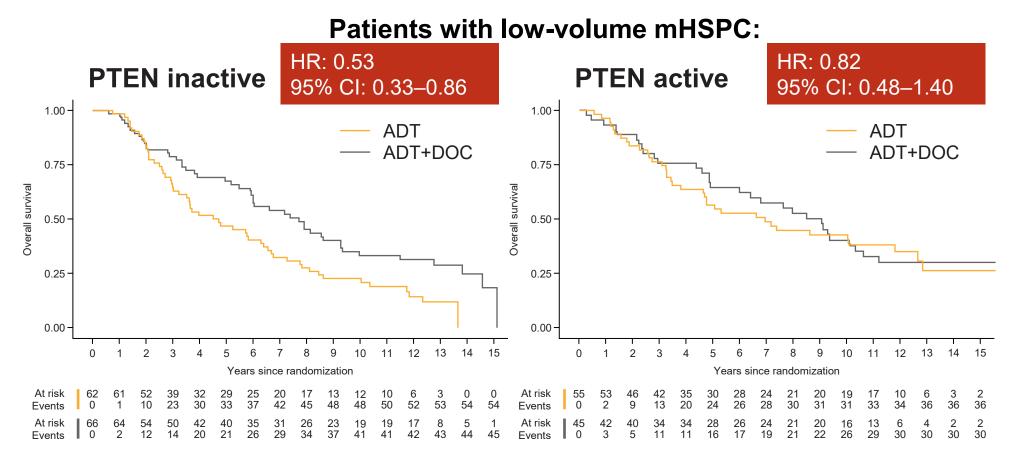
Overall population:



PTEN inactivation predicts docetaxel sensitivity; Tumour PTEN inactivity identifies metastatic patient most likely to benefit from docetaxel. Biomarker-treatment interaction effect p value=0.002*

^{*}Statistically significant.

Transcriptome classification of PTEN inactivation to predict survival benefit from the addition of docetaxel to ADT for metastatic PCa: An ancillary study of the STAMPEDE trials

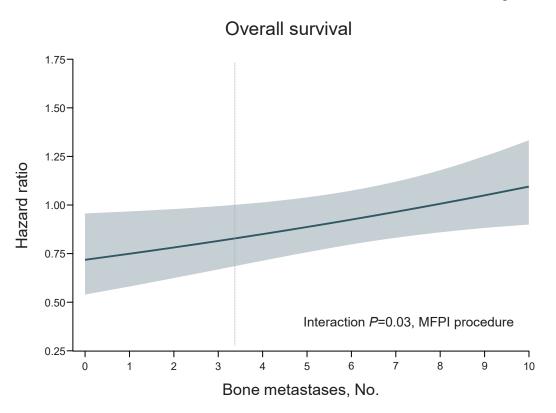


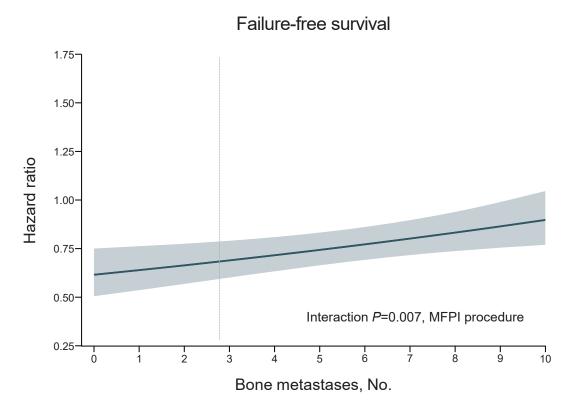
The direction of treatment effect is consistent in low volume disease

Association of bone metastatic burden with survival benefit from prostate RT in patients with newly diagnosed metastatic PCa: A secondary analysis of a randomised clinical trial

ite ysis

Treatment effect plots for bone metastatic count

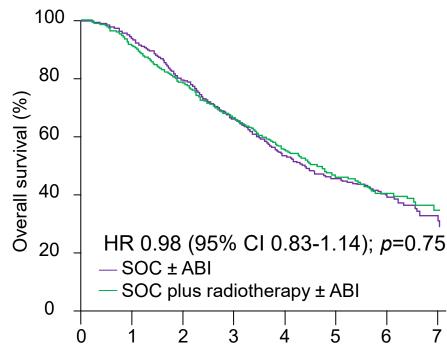




Efficacy and safety of the addition of prostate RT to SOC + ABI in *de novo* mHSPC (PEACE-1): a multicentre, open-label, randomised, Phase 3 study with a 2×2 factorial design

		n low-volume ic disease	Overall study population		
	SOC ± ABI (n=253)	SOC plus RT ± ABI (n=252)	SOC ± ABI (n=588)	SOC plus RT ± ABI (n=584)	
Age, years	67 (59–72)	66 (60–72)	67 (60–72)	66 (60–73)	
ECOG PS score, n (%) 0 1–2	180 (71.1) 73 (28.9)	194 (77.0) 58 (23.0)	411 (69.9) 177 (30.1)	413 (70.7) 171 (29.3)	
Gleason score at diagnosis, n (%) ≤7 ≥8 Data missing	71 (28.1) 173 (68.4) 9 (3.6)	66 (26.2) 184 (73.0) 2 (0.8)	142 (24.1) 429 (73.0) 17 (2.9)	136 (23.3) 441 (75.5) 7 (1.2)	
Time from diagnosis to randomisation, months	2.5 (1.8–3.4)	2.6 (1.7–3.5)	2.2 (1.5–3.1)	2.3 (1.5–3.2)	
Metastatic volume*, n (%) Low High	253 (100.0) 0	252 (100.0) 0	253 (43.0) 335 (57.0)	252 (43.2) 332 (56.8)	
Baseline PSA concentration, ng/ml	10.3 (3.3–31.0)	9.0 (2.3–39.1)	13.1 (3.5–57.1)	12.6 (3.0–62.4)	
Received docetaxel as a component of SOC, n (%)	127 (50.2)	127 (50.4)	355 (60.4)	355 (60.8)	

Overall study population



Adapted from Bossi A, et al. Lancet 2024;404:2065-2076.

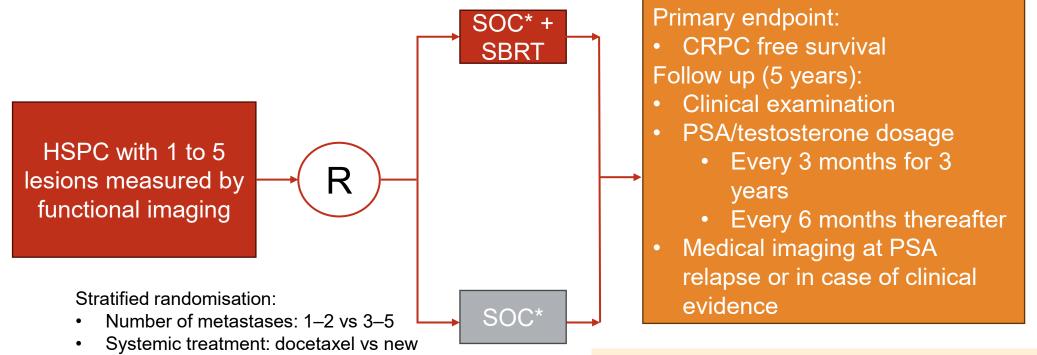
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^{*}High volume was characterised by ≥4 bone metastases with one or more metastasises outside the vertebral bodies or pelvis, or visceral metastases, or both; low volume was characterised as all other assessable situations. ABI, abiraterone; CI, confidence interval; HR, hazard ratio; mHSPC, metastatic hormone sensitive prostate cancer; PSA, prostate-specific antigen; RT, radiotherapy; SOC, standard of care.

Bossi A. et al. *Lancet* 2024;404:2065–2076.

PEACE 6— Oligo PRESTO: PCa treatment using SRT for oligometastases ablation in hormone-sensitive patients — a GETUG-AFU Phase 3 randomised controlled trial





- *Definition of standard of care (prior to randomisation):
- •RT to the prostate in de novo metastatic patients
- •RT to the pelvic lymph nodes in patients with positive pelvic nodes (given as full dose to the positive lymph node and prophylactic dose to the pelvic nodal basin)
- Long term ADT +/- intermittent treatment
- •Additional therapy following tumour board meeting: Hormonal therapy (abiraterone, enzalutamide, apalutamide or other approved) or chemotherapy (docetaxel).

Adapted from NCT04115007.

ADT, androgen-deprivation therapy; CRCP, castration-resistant prostate cancer; HSPC, hormone sensitive prostate cancer; PCa, prostate cancer; RT, radiotherapy; SBRT, sterotatic body radiotherapy; SRT, salvage radiotherapy.

generation hormonal therapy vs no treatment

(local) (defined as a recurrence occurring >6

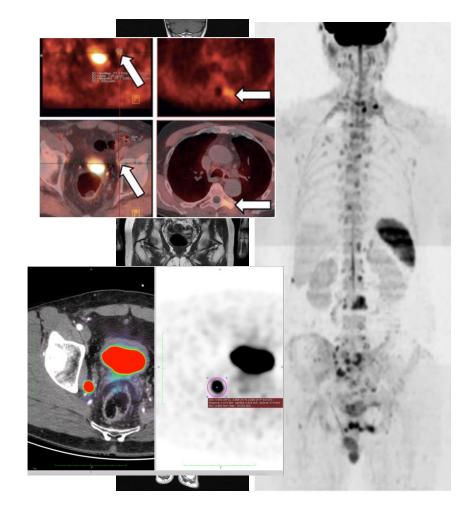
M1 disease: de novo vs previously treated

months after local treatment

NCT04115007. Available at: Study Details | Prostate-cancer Treatment Using Stereotactic Radiotherapy for Oligometastases Ablation in Hormone-sensitive Patients | ClinicalTrials.gov. Last accessed: June 2025;

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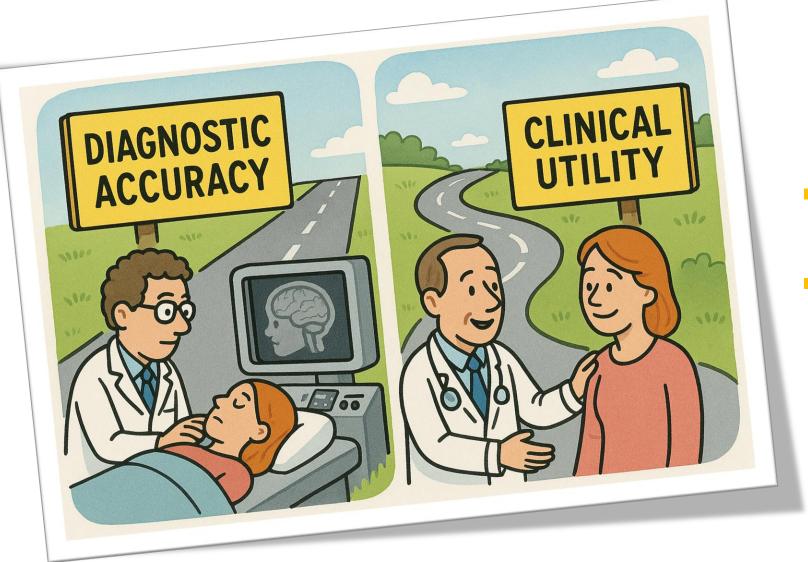
From conventional to next-generation imaging...



Clinical Utility

- **mHSPC**
- The SOC nowadays is combining ADT and an ARPI¹
- Intensification with docetaxel goes well beyond volume²
- NGIT are required to confirm the oligometastastic status, but MDT is still investigational in that setting³

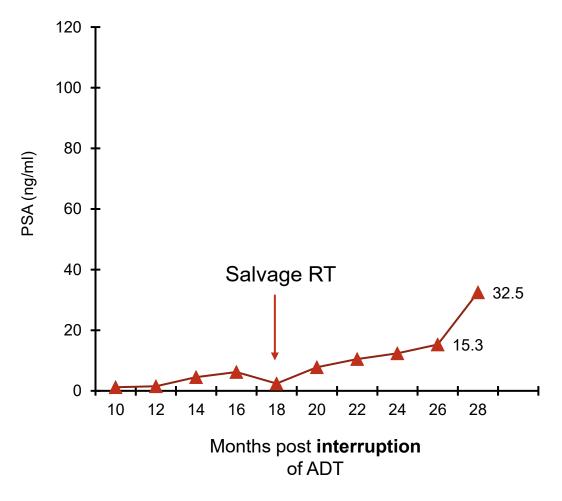
^{1.} EAU. EAU-EANM-ESTRO-ESUR-ISUP-SIOG guidelines on prostate cancer. Available at: uroweb.org/guideline/prostate-cancer/. Last accessed: June 2025; 2. Sweeney CJ, et al. N Engl J Med 2015;373:737–746; 3. Speaker's own experience.



- In the mHSPC setting
- In the high-risk nmHSPC (BCR) setting

71 year-old patient, EBRT + 2 years ADT for locally-advanced PCa (T3b, Gleason 8 (5+3), PSA 47 ng/ml, N0, M0), testosterone 43 ng/dl, PSA

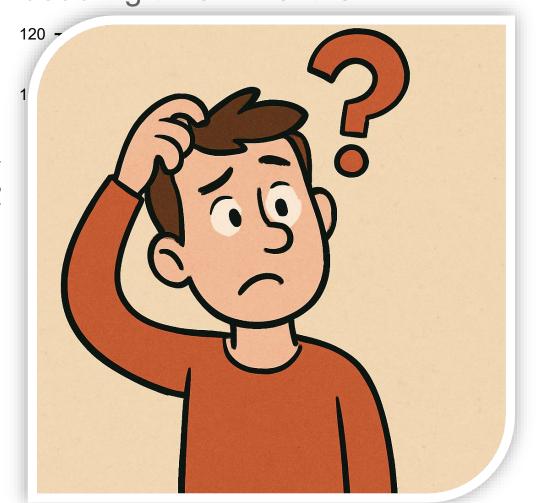
doubling time 7 months





71 year-old patient, EBRT + 2 years ADT for locally-advanced PCa (T3b, Gleason 8 (5+3), PSA 47 ng/ml, N0, M0), testosterone 43 ng/dl, PSA doubling time 7 months





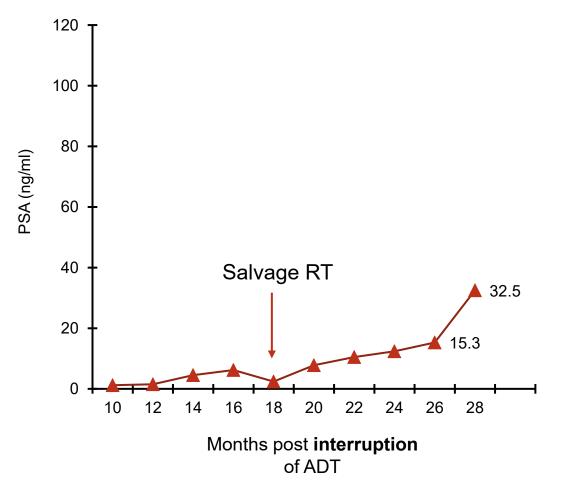
Recommendations for systemic salvage treatment	Strength rating
Offer enzalutamide with or without ADT to M0 patients with a high-risk BCR, defined as a PSA doubling time of ≤9 months and a PSA level of ≥2ng/mL above nadir after radiation therapy or ≥1 ng/m after radical prostatectomy with or without postoperative radiation therapy.	Strong

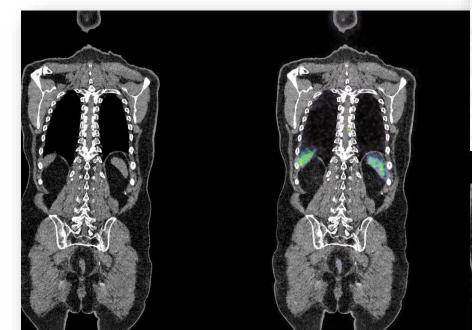
Recommendations for systemic salvage treatment	Strength rating
At recurrence, only perform imaging if the result will affect treatment planning.	Strong

Case provided by the speaker.

Images provided by B.Tombal & F.Lecouvet, Clinique Universities Saint-Luc, Belgium
ADT: androgen deprivation therapy; BCR, biochemical recurrence; EBRT, external beam radiation therapy; PSA, prostate specific antigen; RT, radiotherapy.
EAU. EAU-EANM-ESTRO-ESUR-ISUP-SIOG guidelines on prostate cancer. Available at: https://uroweb.org/guidelines/prostate-cancer (Last accessed: June 2025).
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71 year-old patient, EBRT + 2 years ADT for locally-advanced PCa (T3b, Gleason 8 (5+3), PSA 47 ng/ml, N0, M0), testosterone 43 ng/dl, PSA doubling time 7 months





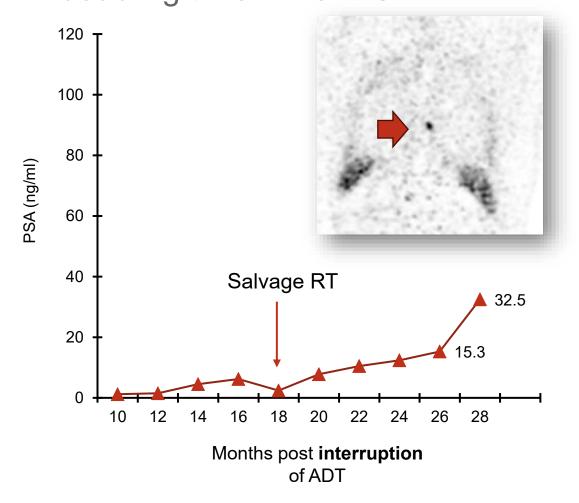
Solitary T7 bone metastasis

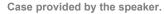


Case provided by the speaker.

Images provided by B.Tombal & F.Lecouvet, Clinique Universities Saint-Luc, Belgium
ADT: androgen deprivation therapy; EBRT: external beam radiation therapy; PSA, prostate specific antigen; RT, radiotherapy.
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71 year-old patient, EBRT + 2 years ADT for locally-advanced PCa (T3b, Gleason 8 (5+3), PSA 47 ng/ml, N0, M0), testosterone 43 ng/dl, PSA doubling time 7 months





What would you recommend?



- A Keep monitoring
- B MDT
- C Start systemic therapy
- D MDT + systemic therapy

Targeting oligometastasis with SABR or surgery in mHSPC: A systematic review of prospective clinical trials



Phase II RCT

Intervention arm: 31
Observation arm: 31
Oligometastases recurrence,
1–3 metastases (PET/CT), M1a–c
SABR, or all-site metastasectomy



Hormone-sensitive oligometastatic prostate cancer. Clinical trial design

Phase II RCT (2:1)
Intervention arm: 36
Observation arm: 18
Oligometastases recurrence,
1–3 metastases (conventional imaging), M1a–b SABR



Phase I

Single arm: 33 (22*)
Oligometastatic recurrence,
1–3 metastases (PET/CT),
M1a–b SABR

Phase I Single arm: 20 Synchronous, 1–10 metastases (conventional imaging), M1a–b CRP + PLND ± RPLND ± SABR





Clinical trial outcomes

LC: 100% 3 years

ADT-FS

Intervention arm: 21 mo Observation arm: 13 mo HR 0.60 (95% CI: 0.40–0.90; p=0.11†) LC: 98.9% 6 mo

PFS

Intervention arm: not reached Observation arm: 31 mo HR 0.30 (95% CI: 0.11–0.81; p=0.02) LC: 97% 1 year

ADT-FS

2 year:* 48% (95% CI: 31–75)



PFS

(PSA ≤0.05 ng/ml) 12 mo: 60% (10%[‡]) 20 mo: 50% (20%[‡])

Adapted from Connor MJ, et al. Eur Urol Oncol 2020.

ADT, androgen deprivation therapy; ADT-FS, ADT-free survival; CI, confidence interval; HR, hazard ratio; CRP, cytoreductive radical prostatectomy; LC, local control; mo, months; mHSPC, metastatic hormone-sensitive prostate cancer; MSKCC, Memorial Sloan Kettering Cancer Centre; NR, not reported; PET/CT, positron emission tomography/computerised tomography; PFS, progression-free survival; PLND, pelvic lymph node dissection; PSA, prostate specific antiqen; RCT, randomised controlled trial; RPLND, retroperitoneal lymph node dissection; SABR, stereotactic ablation radiotherapy.

Connor MJ, et al. Eur Urol Oncol 2020;3:582–593.

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^{*}Hormone-sensitive cohort only; †80% confidence interval; ‡PSA was ≤0.05 ng/ml and testosterone recovery defined as ≥50 mg/dl.

Long-term outcomes and genetic predictors of response to metastasis-directed therapy versus observation in oligometastatic PCa: Analysis of STOMP and ORIOLE trials



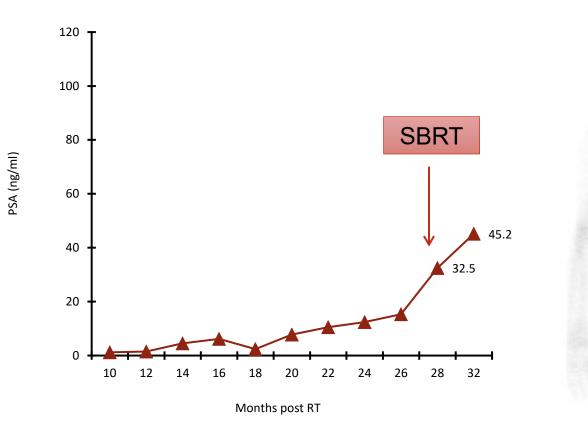
Time-to-event outcomes of MDT vs. observation

Outcome	MDT Median Time to Event, months (95% CI)	Observation Median Time to Event, months (95% CI)			HR (95% CI)	P
PFS	11.9 (8 to 18.3)	5.9 (3.2 to 7.1)			0.44 (0.29 to 0.66)	<0.001
rPFS	18.3 (12 to 36)	17 (13 to 22.8)			0.81 (0.50 to 1.29)	0.37
CRPC	NR (62 to NR)	63 (53.9 to NR)			0.67 (0.34 to 1.31)	0.24
os	NR (84 to NR)	NR (73 to NR)			0.53 (0.13 to 2.11)	0.36
			0 0.5 d ← Favours MDT	1.5 2 Favours observation		

Median delay of ADT ± 6 months

No demonstrated benefit on time to CRPC and OS, yet

71 year-old patient, EBRT + 2 years ADT for locally-advanced PCa (T3b, Gleason 8 (5+3), PSA 47 ng/ml, N0, M0), testosterone 43 ng/dl, PSA doubling time 7 months, SBRT administered on metastasis

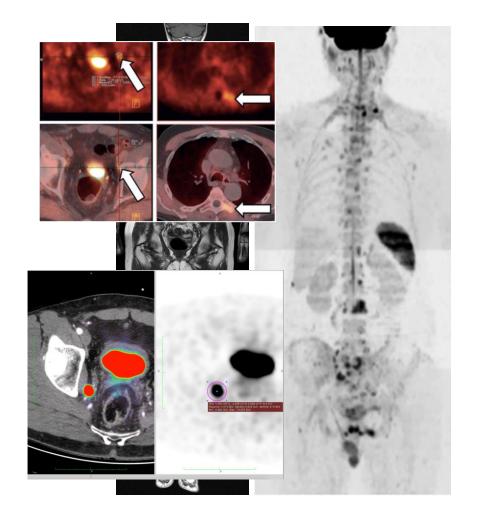






From conventional to next-generation imaging...



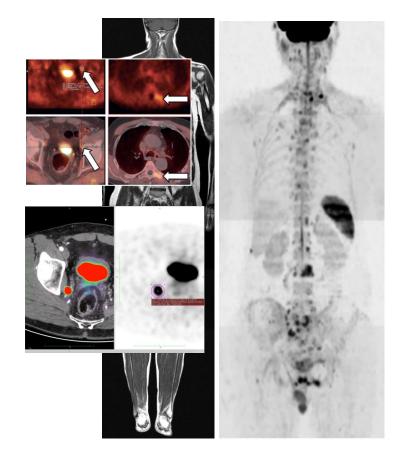


Clinical Utility

nmHSPC (BCR)

- The reference treatment of high-risk BCR is enzalutamide¹
- NGIT will reveal a significant proportion of patients with oligometastastic disease¹
- Delaying the initiation of enzalutamide (±ADT) is no longer an option after EMBARK²
- We need to redefine the role of NGIT and MDT¹

Next-generation imaging: How does it change the evidence seen in trials?



- Next-generation imaging technology are here to stay
- In the end, they challenge our willingness to study rather than disseminate
- Whether we are happy treating our patient on the acceptability of low impact data, it's entirely up to us
- But I believe patients deserve definitive evidence and not conventional wisdom





The value of molecular imaging: Case study

Professor Fabio Calabrò

Regina Elena National Cancer Institute, Rome, Italy



Disclosures



Relationship	Company/Organisation
Advisory boards	AAA, Accord, Astellas, AstraZeneca, BMS, Gilead, Ipsen, J&J, Merck, MSD, Novartis, Pfizer
Consulting	Astellas, J&J
Honoraria	Astellas
Financial	None
Research support	None
Stock ownership	None

• The speaker has received an honorarium from Astellas for this presentation

- 68-year-old man
- ECOG PS of 0
- No relevant family history
- No urinary symptoms
- Hypertension; on treatment with an ACE inhibitor

- 68-year-old man
- ECOG PS of 0
- No relevant family history
- No urinary symptoms
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 on treatment with an ACE inhibitor



Screening PSA = 7 ng/ml

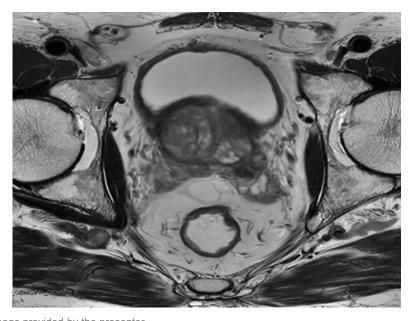
- 68-year-old man
- ECOG PS of 0
- No relevant family history
- No urinary symptoms
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Screening PSA = 7 ng/ml



Multi-parametric prostate MRI



- 2.8 cm on the left with capsule bulging
- Left inferior seminal vesicle invasion
- No suspicious pelvic adenopathy or bone lesions
- PI-RADS 5

- 68-year-old man
- ECOG PS of 0
- No relevant family history
- No urinary symptoms
- Hypertension;
 on treatment with
 an ACE inhibitor



Diagnosis

Screening PSA = 7 ng/ml MRI = PI-RADS score of 5

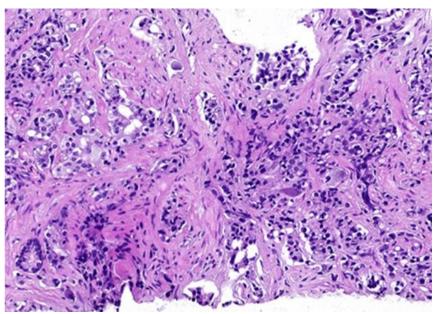


Assessment

Biopsy



- Grade Group 5 acinar adenocarcinoma in 7/12 cores
- Six left-sided cores positive



What imaging would you obtain to evaluate the extent of disease?

- Combined abdomen and pelvis CT scan and bone scan
- B ¹⁸F-fluciclovine PET scan
- C PSMA PET scan
- D Whole-body MRI with DWI

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 on treatment with
 an ACE inhibitor



Diagnosis

Screening PSA = 7 ng/ml MRI = PI-RADS score of 5 Biopsy = adenocarcinoma GG 5



Assessment

Bone scan



- No evidence of lymph node or visceral metastases on CT scan
- No evidence of bone metastases at bone scan

- 68-year-old man
- ECOG PS of 0
- No relevant family history
- No urinary symptoms
- Hypertension; on treatment with an ACE inhibitor



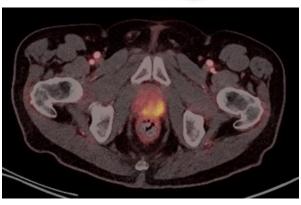
Diagnosis

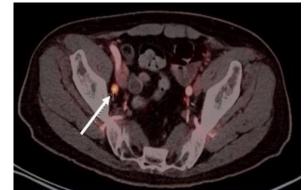
Screening PSA = 7 ng/ml MRI = PI-RADS score of 5 Biopsy = adenocarcinoma GG 5

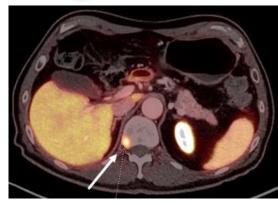


Assessment

PSMA PET







- Heterogeneous PSMA uptake in prostate gland (SUV 15.4)
- 9 mm right obturator node (SUV 8.9) and right internal iliac node (SUV 7.9)
- Right T11 (SUV 13.6)

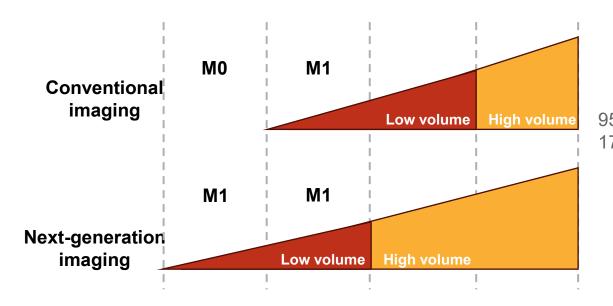
Fictitious patient case study created for illustrative purposes. Clinical images provided by the presenter.

ACE, angiotensin-converting enzyme; ECOG PS, Eastern Cooperative Oncology Group performance status; GG, Grade Group; MRI, magnetic resonance imaging; PET, positron emission tomography; PI-RADS, Prostate Imaging-Reporting and Data System; PSA, prostate-specific antigen; PSMA, prostate-specific membrane antigen; SUV, standard uptake value.

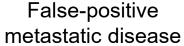
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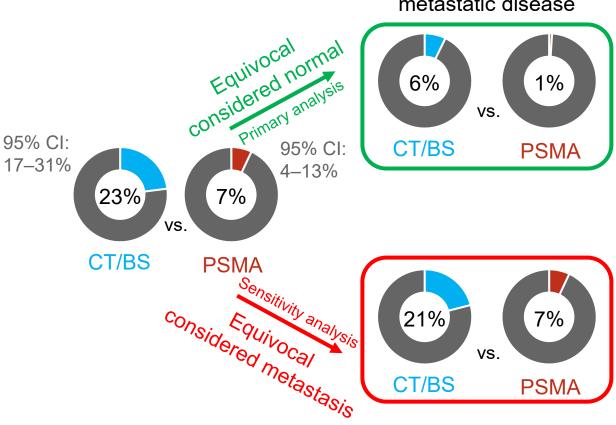
Two sides of the same coin

Stage migration from low volume (conventional imaging) to high volume (PSMA PET)¹



False-positive findings with conventional imaging (from high volume to low volume)²





Figures adapted from Olka R, et al. *Cansers* 2024 and Hofman MS, et al. *Lancet* 2020.^{1,2} BS, bone scan; CI, confidence interval; CT, computed tomography; M0, non-metastatic; M1, metastatic; PET, positron emission tomography; PSMA, prostate-specific membrane antigen.

1. Oka R, et al. *Cancers (Basel)* 2024;16:507; 2. Hofman MS, et al. *Lancet* 2020;395:1208–1216.

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PSMA PET in high-risk prostate cancer proPSMA trial

Accuracy, sensitivity and specificity of conventional imaging compared with PSMA PET/CT

	N	Positive	Negative	AUC (95% CI)	Specificity (95% CI)	Sensitivity (95% CI)
		True/False	True/False	_		
Primary analysis						
Any metastatic disease	150	18/19	94/29	III	H III -I	⊢
	145	34/2	103/6	-	_	⊢ ■
Pelvic nodal	150	9/4	106/31	.		⊢
	145	29/1	109/6	_	_	⊢
Distant metasases	150	13/9	117/11	-	H	⊢
	145	22/1	120/2	_	_	⊢
Sensitivity analysis: eq	uivoca	ıl lesions trea	ited as positive			
Any metastatic disease	150	26/35	68/21	H	H = H	⊢-≣
	145	35/11	94/5	=	H	⊢
Pelvic nodal	150	11/11	99/29	III	H ■ H	⊢-■
	145	29/2	108/6	H	_	⊢ ■ ⊢
Distant metasases	150	16/37	89/8	H III I	H	⊢
	145	22/11	110/2		⊞ H	⊢ ■ ⊢
Conventional imagin	g 📕	PSMA PET-0	СТ	0 25 50 75 100	0 25 50 75 100	0 25 50 75 100

These stage modifications were associated with modifications in the management plan in 15% of patients with conventional imaging vs. 28% of patients with PSMA PET, and a shift from curative to palliative care in 14% of patients who underwent first-line PSMA PET

What systemic treatment do you recommend?



- A ADT doublet
- B ADT alone
- C ADT triplet
- D ADT +chemotherpy

The redefined era of intensification

		% HV in	OS HR for	OS HR for subpopulation	
Trial	Intervention arms	investigative arm	overall population	High volume:	Low volume:
CHAARTED1	ADT + docetaxel	66	0.61	0.60	0.60
(N=790)	ADT	00	0.01	0.00	0.00
STAMPEDE ²	ADT + docetaxel	54	0.81	0.81	0.76
(N=1086)	ADT	54	0.61	0.01	0.76
LATITUDE ^{3,4}	ADT + ABI (+ prednisone)	80	0.66	0.62	0.72
(N=1199)	ADT	00	0.00	0.02	0.72
STAMPEDE ⁵	ADT + ABI	48*	0.60	0.54*	0.54*
(N=1003)	ADT	40	0.60	0.54	0.54
ENZAMET†‡6	ADT + ENZ	52	0.67	0.80	0.43
(N=1125)	ADT + SNA	52	0.07	0.00	0.43
ARCHES ⁷	ADT + ENZ	62	0.66	0.66	0.00
(N=1150)	ADT	02	0.00	0.66	0.66
TITAN ^{8,9}	ADT + APA	62	0.65	0.70	0.52
(N=1052)	ADT	02			
ARASENS ¹⁰	ADT + docetaxel + DARO		0.68	-	-
(N=1306)	ADT + docetaxel	-			
PEACE-1 ^{‡11}	ADT + docetaxel + ABI ± RT	63	0.75	0.72	0.83
(N=710)	ADT + docetaxel ± RT	03			

Interpret with caution; table is for illustrative purposes only. Studies should not be compared.

^{*}Rather than high-volume and low volume, patients in the STAMPEDE trial were defined as high-risk or low-risk using the criteria from the LATITUDE trial; †ENZAMET was not powered to analyse the results of overall survival in individual subgroups. Therefore, an improvement in overall survival cannot be demonstrated formally in any subgroup, including mHSPC patients taking XTANDI + LHRH therapy with or without concomitant docetaxel; ‡Enzalutamide + docetaxel + ADT and Abiraterone + docetaxel + ADT triplet therapy combinations are not licensed for use in patients with mHSPC.

ABI, abiraterone; ADT, androgen deprivation therapy; APA, apalutamide; DARO, darolutamide; ENZ, enzalutamide; HR, hazard ratio; HV, high-volume; OS, overall survival; RT, radiotherapy; SNA, standard non-steroidal anti-androgen.

1. Sweeney C, et al. *N Engl J Med* 2015;373:737–46; 2. Clarke NW, et al. *Ann Oncol* 2019;30:1992–2003; 3. Fizazi K, et al. *Lancet Oncol* 2019;20:686–700; 4. Fizazi K, et al. *Lancet Oncol* 2019;20:686–700 (supplementary material);
5. James ND, et al. *Int J Cancer* 2022;151:422–434; 6. Davis ID, et al. *N Engl J Med* 2019;381:121–131; 7. Armstrong AJ, et al. *J Clin Oncol* 2022;40:1616–1622; 8. Chi KN, et al. *N Engl J Med* 2019;381:13–24;
9. Chi KN, et al. *J Clin Oncol* 2021;39:2294–2303; 10. Smith MR, et al. *N Engl J Med* 2022;386:1132–1142; 11. Fizazi K, et al. *Lancet* 2022;399:1695–1707.

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Patients with LV disease may benefit from ADT intensification



Trial	Patients with low- volume disease, n	OS HR in low-volume disease population
LATITUDE (ABI) ^{1,2}	243	0.72
STAMPEDE (ABI) ³	428*	0.54*
TITAN (APA) ^{4,5}	392	0.52
ARCHES (ENZ) ⁶	423	0.66
ENZAMET (ENZ) ^{†7}	537	0.43

Interpret with caution; table is for illustrative purposes only. Studies should not be compared.

^{*}Rather than high-volume and low volume, patients in the STAMPEDE trial were defined as high-risk or low-risk using the criteria from the LATITUDE trial.

[†] ENZAMET was not powered to analyse the results of overall survival in individual subgroups. Therefore, an improvement in overall survival cannot be demonstrated formally in any subgroup, including mHSPC patients taking XTANDI + LHRH therapy with or without concomitant docetaxel. This triplet combination is not licensed for use in patients with mHSPC.

ABI, abiraterone; ADT, androgen deprivation therapy; APA, apalutamide; ENZ, enzalutamide; HR, hazard ratio; LV, low-volume; OS, overall survival.

^{1.} Fizazi K, et al. Lancet Oncol 2019;20:686–700; 2. Fizazi K, et al. Lancet Oncol 2019;20:686–700 (supplementary material); 3. James ND, et al. Int J Cancer 2022;151:422–434;

^{4.} Chi KN, et al. N Engl J Med 2019;381:13–24; 5. Chi KN, et al. J Clin Oncol 2021;39:2294–2303; 6. Armstrong AJ, et al. J Clin Oncol 2022;40:1616–1622; 7. Davis ID, et al. N Engl J Med 2019;381:121–131. MAT-NL-XTD-2025-00034 | July 2025

- 68-year-old man
- ECOG PS of 0
- No relevant family history
- No urinary symptoms
- Hypertension; on treatment with an ACE inhibitor



Diagnosis

Screening PSA = 7 ng/ml MRI = PI-RADS score of 5 Biopsy = adenocarcinoma GG 5



Assessment

PSMA PET = PSMA uptake in prostate gland, right obturator and internal iliac node, T11



Treatment

ADT + enzalutamide

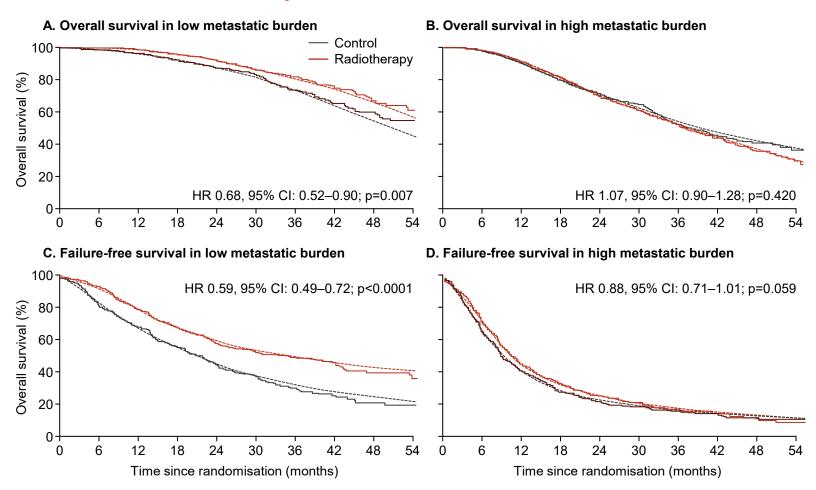
Do you recommend treatment to the prostate?



- A Not treatment to the prostate
- B Radiation therapy
- **C** Surgery
- **D** Surgery + radiation therapy

OS with radiotherapy in M1 disease STAMPEDE

OS and FFS by treatment and metastatic burden

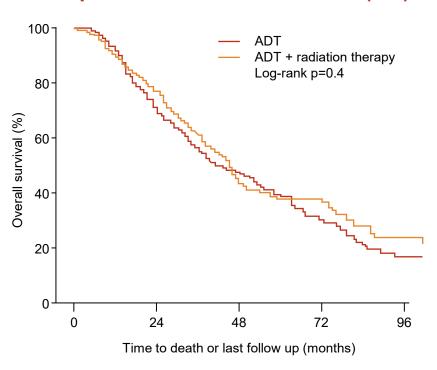


Adapted from Parker CC, et al. *Lancet* 2018.
CI, confidence interval; FFS, failure-free survival; HR, hazard ratio; M1, metastatic; OS, overall survival.
Parker CC, et al. *Lancet* 2018;392:2353–2366.
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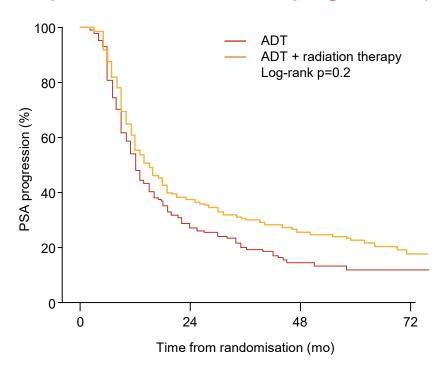
OS with radiotherapy in M1 disease HORRAD: A multicentre RCT (n=432)



Kaplan–Meier estimates of OS (ITT)



Kaplan–Meier time to PSA progression (ITT)



OS with radiotherapy in M1 disease STOPCAP meta-analysis



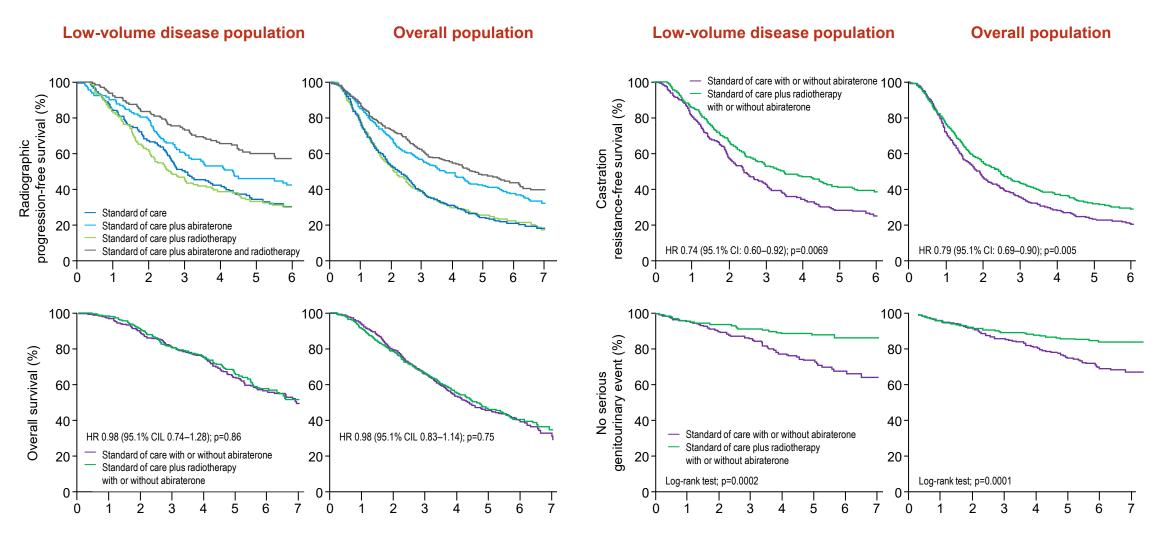
Effect of adding RT to ADT on OS

Outcome and trial name	RT + ADT Events/patients	ADT Events/patien	ts		
Overall survival					
STAMPEDE		_			
<5	105/399	130/404	-		
≥5	218/393	207/397	_	◆ —	
HORRAD					
<5	35/89	34/71 _	•	L	
≥5	96/127	105/145		◆	
			avours + ADT	Fav AD	ours Γ

- Systematic review of prostate RT trials including HORRAD and STAMPEDE
- Significant OS benefit observed in patients with <5 bone metastases:
 - HR 0.73 (95% CI: 0.58–0.92); p=0.0071
 - This translated to a 7% improvement from 70% to 77% in 3-year OS for RT+ADT vs. ADT alone

OS with radiotherapy in low-volume M1 disease PEACE-1





Adapted from Bossi A, et al. *Lancet* 2024. CI, confidence interval; HR, hazard ratio; M1, metastatic; OS, overall survival Bossi A, et al. *Lancet* 2024;404:2065–2076. MAT-NL-XTD-2025-00034 | July 2025

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 on treatment with
 an ACE inhibitor



Diagnosis

Screening PSA = 7 ng/ml MRI = PI-RADS score of 5 Biopsy = adenocarcinoma GG 5



Assessment

PSMA PET = PSMA uptake in prostate gland, right obturator and internal iliac node, T11



Treatment

ADT + enzalutamide RT of prostate

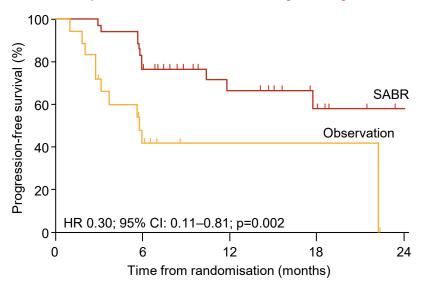
For this patient, would you consider metastasis-directed therapy?



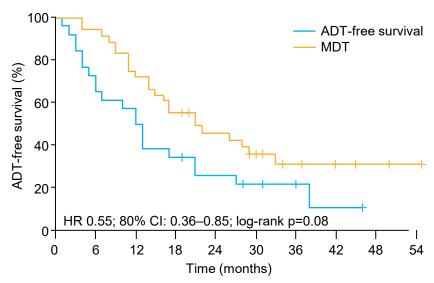
- A No
- B Yes
- C Only in symptomatic sites
- **D** Only for CRPC

Metastasis-directed therapy STOMP and ORIOLE trials

Composite PFS stratified by study arm¹



ADT-free survival vs. MDT (per-protocol analysis)²



62

Time-to-event outcomes of MDT vs. observation³

Outcome	MDT Median Time to Event, months (95% CI)	Observation Median Time to Event, months (95% CI)		HR (95% CI)	p-value
PFS	11.9 (8–18.3)	5.9 (3.2–7.1)		0.44 (0.29–0.66)	<0.001
rPFS	18.3 (12–36)	17 (13–22.8)		0.81 (0.50-1.29)	0.37
CRPC	NR (62-NR)	63 (53.9-NR)		0.67 (0.34-1.31)	0.24
os	NR (84–NR)	NR (73-NR)	0 05 1 15 0	0.53 (0.13–2.11)	0.36
I. J Clin Oncol 2022.1	A Oncol 2020, Ost P, et al. J Clin O	,	0 0.5 1 1.5 2 Favours MDT Favours observation	1	

Adapted from Deek MP, et al. J Clin Oncol 2022.1-3

ADT, androgen deprivation therapy; CI, confidence interval; CRPC, castration-resistant prostate cancer;

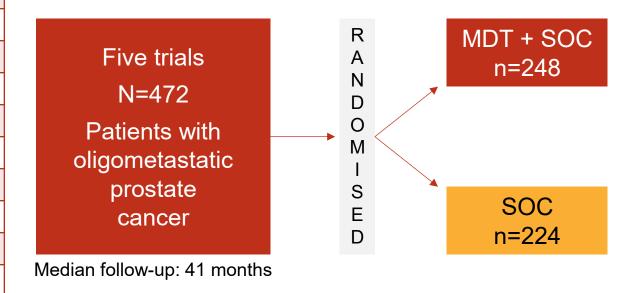
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HR, hazard ratio; MDT, metastasis-directed therapy; NR, not reached; OS, overall survival; PFS, progression-free survival; rPFS, radiographic progression-free survival; SABR, stereotactic ablative radiotherapy 1. Phillips R, et al. JAMA Oncol 2020;6:650-659; 2. Ost P, et al. J Clin Oncol 2018;36:446-453, 3. Deek MP, et al. J Clin Oncol 2022;40:3377-3382.

Worldwide oligometastatic prostate cancer meta-analysis



	soc	SOC + MDT
Second-generation ARPI, n (%)	134 (60%)	125 (50%)
ADT alone, n (%)	40 (18%)	52 (21%)
Observation, n (%)	50 (22%)	69 (28%)
Median PSA at enrolment, ng/ml	1.9	1.9
Number of metastases, n	2	2
CRPC, n (%)	104 (46%)	95 (38%)
HSPC, n (%)	120 (54%)	153 (62%)
Primary treated, no, n (%)	37 (17%)	42 (17%)
Primary treated, yes, n (%)	185 (83%)	204 (82%)
Baseline conventional imaging, n (%)	79 (35%)	110 (44%)
Baseline PET imaging, n (%)	145 (65%)	138 (56%)

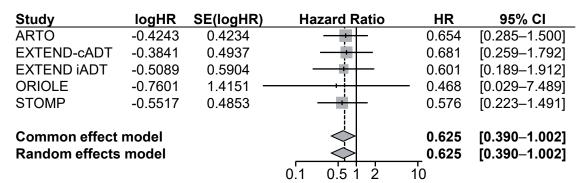


MDT, metastasis-directed therapy; PET, positron emission tomography; PSA, prostate-specific antigen; SOC, standard of care.

Tang C, et al. Presented at ASCO GU 2025, 13–15 February 2025, San Francisco, CA, USA. Abstract 15.

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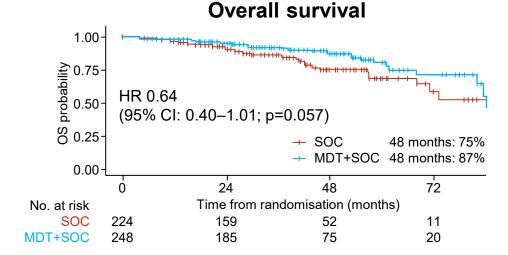
Worldwide oligometastatic prostate cancer meta-analysis Castration-sensitive population

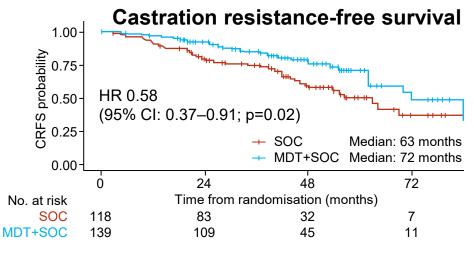


Heterogeneity: $I^2=0\%$, $\tau^2=0$, p=1.00

Study	logHR	SE(logHR)	Hazard Ratio	HR	95% CI
EXTEND-cADT	-0.5336	0.5857 —	*	0.586	[0.186–1.848]
EXTEND IADT	-0.9218	0.4359 —	- - -	0.398	[0.169-0.935]
ORIOLE	-0.4666	0.5687 -		0.627	[0.206-1.912]
STOMP	-0.3073	0.3747	- 	0.735	[0.353-1.533]
Common effect n				0.579 0.579	[0.367–0.915] [0.367–0.915]
		0.2	0.5 1 2	5	

Heterogeneity: $I^2=0\%$, $\tau^2=0$, p=0.76





Adapted from Tang C, et al. Presented at ASCO GU 2025,

cADT, continuous androgen deprivation therapy; CI, confidence interval; CRFS, castration resistance-free survival; HR, hazard ratio; iADT, intermittent androgen deprivation therapy; MDT, metastasis-directed therapy; SE, standard error; SOC. standard of care.

Tang C, et al. Presented at ASCO GU 2025, 13–15 February 2025, San Francisco, CA, USA. Abstract 15. MAT-NL-XTD-2025-00034 | July 2025

Ongoing trials

Trial characteristics	PLATON (NCT03784755) ¹	Oligo-PRESTO (NCT04115007) ²	VA STARPORT (NCT04787744) ^{3,4}	METANOVA (NCT06150417) ⁵	START-MET (NCT05209243) ⁶
Disease status	<i>De novo</i> + recurrent	<i>De novo</i> + recurrent	Oligorecurrent	De novo	<i>De novo</i> + recurrent
Imaging	Conventional imaging	Choline PET, PSMA PET or WB-MRI	Conventional imaging, choline PET, PSMA PET	Conventional imaging or PSMA-PET/CT	Conventional imaging, choline PET or PSMA PET
Oligometastases definition	≤5 metastases	≤5 metastases	1–10 metastases	1–5 metastases by conventional imaging; 1–10 metastases by PSMA-PET	≤5 metastases
ADT	Yes, continuous	Yes, continuous or intermittent	Yes, continuous	Yes, continuous	Yes, continuous
Primary endpoint	FFS	CRPC-FS	CRPC-FS	FFS	rPFS
Sample size	409	550	464	200	266

ADT, androgen deprivation therapy; CRPC-FS, castration-resistant prostate cancer—free survival; FFS, failure-free survival; OS, overall survival; PET, positron emission tomography; PSMA, prostate-specific membrane antigen; rPFS, radiographic progression-free survival; WB-MRI, whole-body magnetic resonance imaging.

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^{1.} NCT03784755. Available at: https://clinicaltrials.gov/study/NCT03784755. Last accessed: June 2025; 2. NCT04115007. Available at: https://clinicaltrials.gov/study/NCT04115007. Last accessed: June 2025; 3. Solanki AA, et al. J Clin Oncol 2024;42(Suppl 16):Abstract TPS5120; 4. NCT04787744. Available at: https://clinicaltrials.gov/study/NCT04787744. Last accessed: June 2025; 5. NCT06150417. Available at: https://clinicaltrials.gov/study/NCT06150417. Last accessed: June 2025; 6. NCT06209243. Available at: https://clinicaltrials.gov/study/NCT06150417. Last accessed: June 2025; 6. NCT06150417. Available at: https://clinicaltrials.gov/study/NCT06150417. Last accessed: June 2025; 6. NCT06209243. Available at: https://clinicaltrials.gov/study/NCT05209243. Last accessed: June 2025.

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- 68-year-old man
- ECOG PS of 0
- No relevant family history
- No urinary symptoms
- Hypertension; on treatment with an ACE inhibitor



Diagnosis

Screening PSA = 7 ng/ml MRI = PI-RADS score of 5 Biopsy = adenocarcinoma GG 5



Assessment

PSMA PET = PSMA uptake in prostate gland, right obturator and internal iliac node, T11



ADT + enzalutamide RT of prostate MDT



Take-home messages



- PSMA PET has demonstrated greater accuracy, sensitivity and specificity than combined conventional imaging for detection of metastases for high-risk prostate cancer in RCTs¹
- Doublet therapy with ADT + ARPI is the standard of care for patients with metastatic castration-sensitive prostate adenocarcinoma; including those with synchronous oligometastatic disease²
- A subgroup analysis of RCTs has shown a role of radiation to the prostate in the realm of oligometastatic HSPC³⁻⁶
- Metastasis-directed therapy has emerged as an option in patients with oligorecurrent HSPC, and its role in de novo oligometastatic HSPC will be determined in ongoing trials⁶





Please refer to the EMA SmPC for XTANDI™ (enzalutamide) via the following link: https://www.ema.europa.eu/en/documents/product-information/xtandi-epar-product-information en.pdf



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