

# Treatment choice today for patients with mHSPC

# **Professor Shahrokh Shariat Professor Vincent Khoo**

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# XTANDI™ (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 nonmetastatic 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 nmCRPC
- 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



# Role of local treatment in mHSPC

### Shahrokh F. Shariat, MD

Professor & Chair of Urology, Medical University of Vienna, Vienna, Austria; Head, Comprehensive Cancer Center Vienna, Vienna, Austria

#### DEPARTMENT OF UROLOGY





#### COMPREHENSIVE CANCER CENTER VIENNA





### Adjunct/Honorary Professor of Urology at

- ✓ Weill Cornell Univ, New York, USA
- ✓ UT Southwestern, Dallas, USA
- ✓ Charles University, Prague, CZ







✓ University of Jordan, Amman, JO.













## Disclosures

#### **Personal financial interests**

#### Advisory board and/or speaker:

- Astellas; AstraZeneca; Bayer;
   Bristol-Myers Squibb; Ferring; Ipsen; Janssen; MSD;
   Olympus; Pfizer; Roche; Sanofi; Urogen
- The speaker has received an honorarium for this presentation

#### Patents:

- Method to determine prognosis after therapy for prostate cancer
- Methods to determine prognosis after therapy for bladder cancer
- Prognostic methods for patients with prostatic disease
- Soluble Fas urinary marker for the detection of bladder transitional cell carcinoma

#### Non-financial interests

- Professor and Chairman, Department of Urology;
   Comprehensive Cancer Center; Medical University Vienna,
   Vienna, Austria
- Adjunct Professor; Weill Medical College of Cornell University, New York, NY, USA
- Adjunct Professor; UT Southwestern, Dallas, TX, USA
- Adjunct Professor; Charles University, Prague, Czechia
- Adjunct Professor; I.M. Sechenov First Moscow State Medical University, Moscow, Russia
- Adjunct Professor; University of Jordan, Amman, Jordan
- Bladder Cancer Research Consortium
- Bladder Cancer Detection Group
- Upper Tract Urothelial Carcinoma Collaboration
- Movember Foundation

# Therapy of metastatic hormone sensitive prostate cancer (mHSPC)



ADT + abiraterone<sup>1</sup>

ADT + enzalutamide<sup>1</sup>

ADT + apalutamide<sup>1</sup>

**ADT** + darolutamide<sup>2</sup>



Is there room for local therapy ??



ADT + abiraterone + docetaxel<sup>1</sup>

ADT + darolutamide + docetaxel<sup>1</sup>

ADT, androgen deprivation therapy; mHSPC, metastatic hormone-sensitive prostate cancer.

<sup>1.</sup> Cornford P, et al. EAU-EANM-ESTRO-ESUR-ISUP-SIOG Guidelines on Prostate Cancer. Available at: https://d56bochluxqnz.cloudfront.net/documents/full-guideline/EAU-EANM-ESTRO-ESUR-ISUP-SIOG-Guidelines-on-Prostate-Cancer-2025\_2025-03-24-120144\_rinw.pdf. Last accessed: June 2025; 2. NUBEQA (darolutamide) Summary of Product Characteristics.

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## Diagnosis

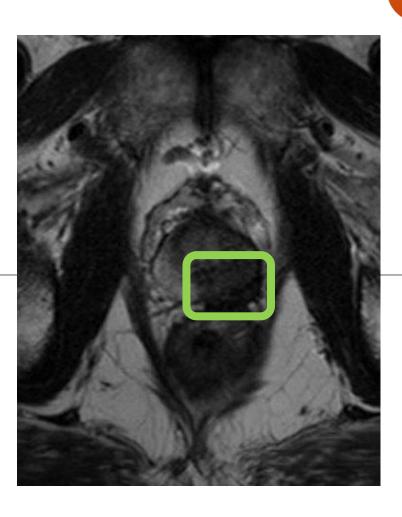
mpMRI of prostate: Local cT4 (suspicious for invasion of rectum, seminal vesicle and bladder neck)



• 66 y.o. gentleman



Sept 2019







## **Diagnosis**



• 66 y.o. gentleman

mpMRI of prostate: Local cT4 (suspicious for invasion of rectum, seminal vesicle and bladder neck)
Transrectal MRI-fused biopsy of prostate: Prostate cancer ISUP 4, 11/16 cores positive



Sept 2019





## **Diagnosis**

mpMRI of prostate: Local cT4 (suspicious for invasion of rectum, seminal vesicle and bladder neck)
Transrectal MRI-fused biopsy of prostate: Prostate cancer ISUP 4, 11/16 cores positive

#### **Assessment**

Whole body staging with PSMA PET/MRI: cT4, cN1, cM1a+b



• 66 y.o. gentleman

Oct 2019

CN1

CM1a

CM1b

CM1b

## Patient GV: How would you treat him?



- A ADT ± bicalutamide
- B ADT + radiotherapy
- C ADT + ARPI
- D ADT + docetaxel + ARPI
- E ADT + ARPI + radiotherapy



### Diagnosis



66 y.o. gentleman

mpMRI of prostate: Local cT4 (suspicious for invasion of rectum, seminal vesicle and bladder neck)
Transrectal MRI-fused biopsy of prostate: Prostate cancer ISUP 4,
11/16 cores positive



Sept 2019



### **Treatment**

ADT + enzalutamide

Weight gain 3 kg → diet control and physical activity increase

Moderate hot flashes but no other AEs





Whole body staging with PSMA PET/MRI: cT4, cN1, cM1a+b



• 66 y.o. gentleman



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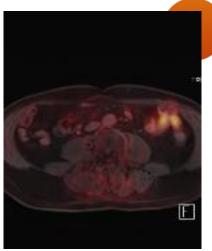


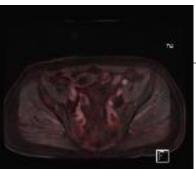


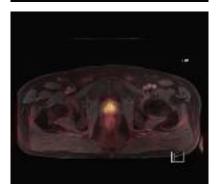
- ycT3a+b (local decreased tumour)
- ycN1 (minimal residual PSMA expression in local LN)
- ycM1a (minimal residual PSMA expression in supraclavicular LN, bone met not longer visible)

**PSA**: 0.12 ng/ml

Testosterone: 0.09 ng/ml







ADT, androgen deprivation therapy; AE, adverse event; LN, lymph node; MRI, magnetic resonance imaging; PET, positron emission tomography; PSA, prostate-specific antigen; PSMA, prostate-specific membrane antigen.

Clinical case and images provided by the speaker.

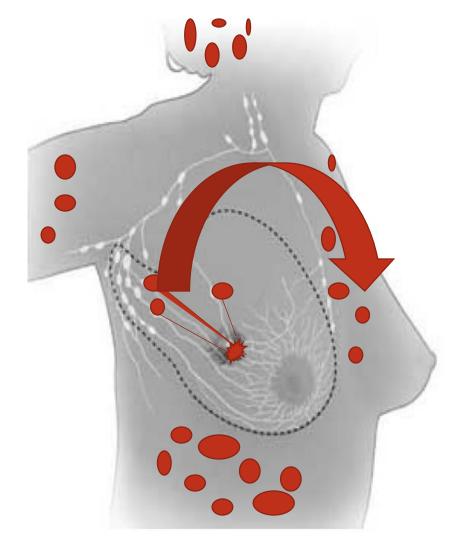
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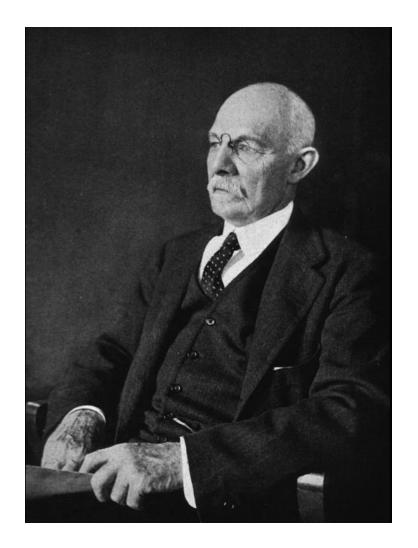
# Patient GV: What would be your next step?



- A Continue ADT + enzalutamide
- ADT + enzalutamide + radiotherapy to prostate
- ADT + enzalutamide + cytoreductive radical prostatectomy
- D ADT + docetaxel

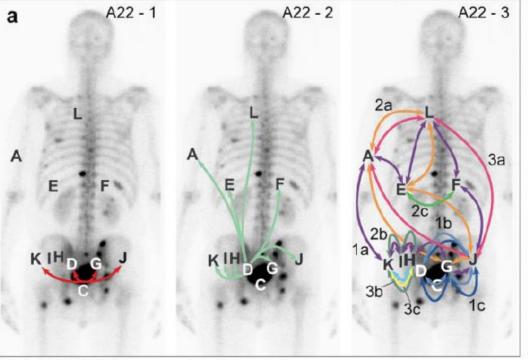
# The Halsted Theory







## The evolutionary history of lethal metastatic prostate cancer



A - L humerus BM

D - Sem. vesicle

C - Prostate

E - L adrenal

F - R adrenal

G - Bladder

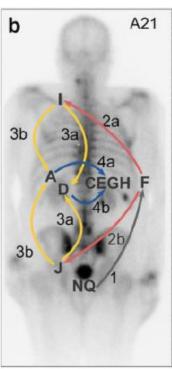
H - Pelvic LN

i - L pelvic LN



K - L pelvic LN

L - L media. LN



A-Lrib D-Ladrenal

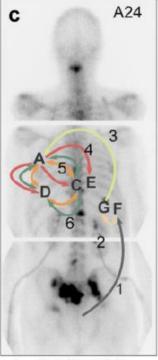
C - Liver F - R rib nod.

E - Liver I - L clavicle

G - Liver J - Liliac crest

H - Liver N - GL5 EPE

Q - GL3/5



A - R axillary LN

C - R diaphrag. met.

D - R rib

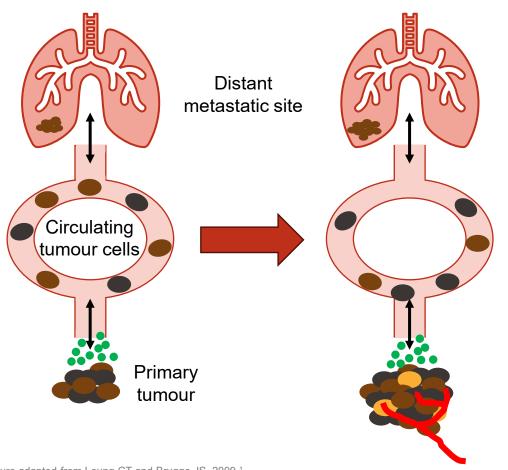
E - Xiphoid

F - L lobe liver

G - Falciform ligam.

## Tumour self-seeding: Bidirectional flow of tumours<sup>1,2</sup>





- Metastatic tumour cell
- Tumour cell
- Chemoattractant (e.g. IL6, IL8)
- Stromal cell

## Circulating tumor cells:

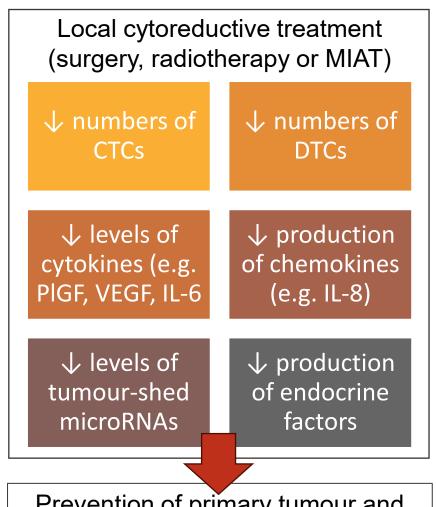
- seed metastatic growth at distant sites, and
- re-infiltrate the primary organ
  - promote progression

Figure adapted from Leung CT and Brugge JS, 2009. 

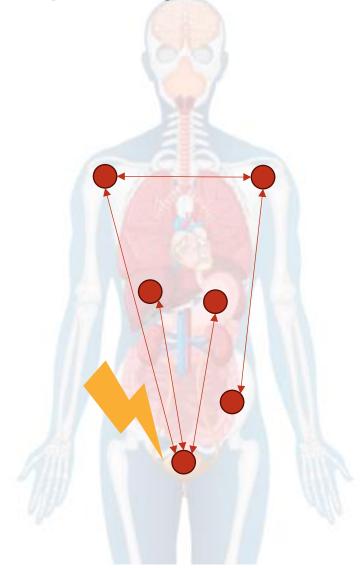
IL, interleukin.

<sup>1.</sup> Leung CT and Brugge JS. *Cell* 2009:139:1126–1228; 2. Kim M, et al. *Cell* 2009;139:1315–1326. MAT-NL-XTD-2025-00035 | July 2025

Potential effects of local treatment on primary tumour



Prevention of primary tumour and metastases interactions)



16

Figure adapted from Connor MJ, et al. 2020.

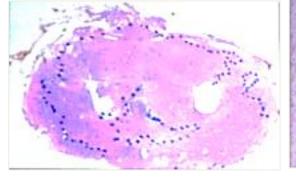
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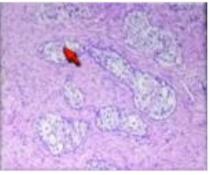
CTC, circulating tumour cells; DTC, disseminated tumour cells; IL, interleukin; MIAT, minimally invasive ablative therapy; PIGF, placental growth factor; VEGF, vascular endothelial growth factor. Connor MJ, et al. *Nat Rev Clin Oncol* 2020;17:168–182.

# Persistent, biologically meaningful PCa after 1 year ADT + docetaxel

# Diffuse residual tumour (70% of gland)

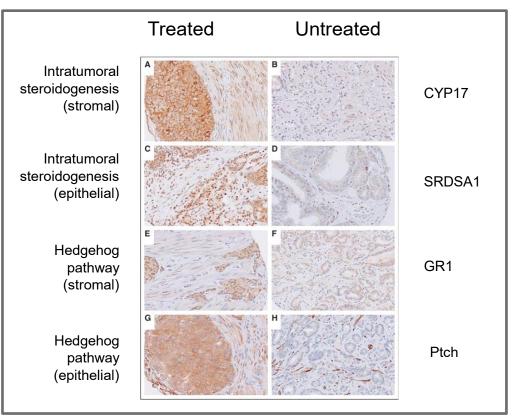
Intraductal spread





- After 1 year of ADT + 3 cycles docetaxel
- n=32

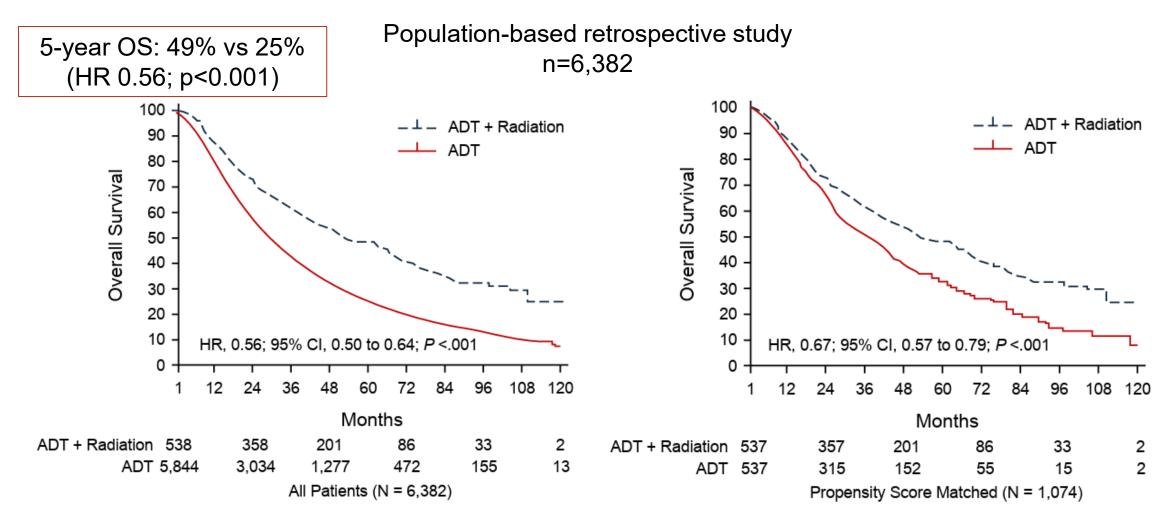
Residual tumour: 94%



Activation of the intratumoral steroidogenesis (CYP17)<sup>1</sup>

ADT, androgen deprivation therapy; CYP17, cytochrome P17; PCa, prostate cancer; Ptch, patched; SRDSA1, 5α-steroid 4-dehydrogenase 1. 1. Tzelepi V, et al. *J Clin Oncol* 2011;29:2574–2581.

# Improved survival with prostate radiation + ADT vs ADT alone for men with newly-diagnosed metastatic prostate cancer



Figures adapted from Rusthoeven CG, et al. 2016.

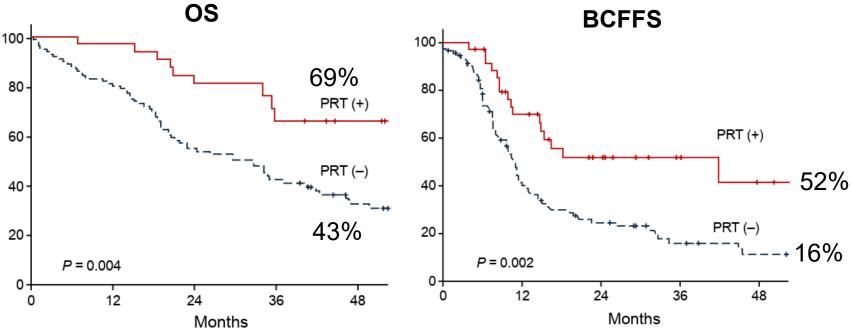
ADT, androgen deprivation therapy; CI, confidence interval; HR, hazard ratio; OS, overall survival. Rusthoven CG, et al. *J Clin Oncol* 2016;34:2835–2842.

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# Does radiotherapy for the primary tumour benefit prostate cancer patients with distant metastasis at initial diagnosis?

# Prospective case-control 140 patients



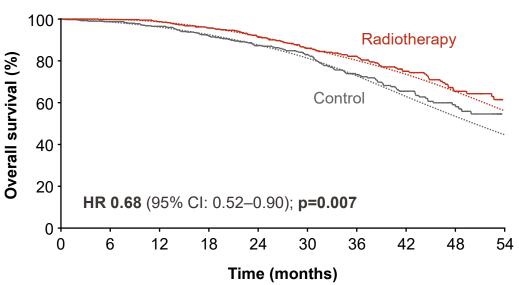


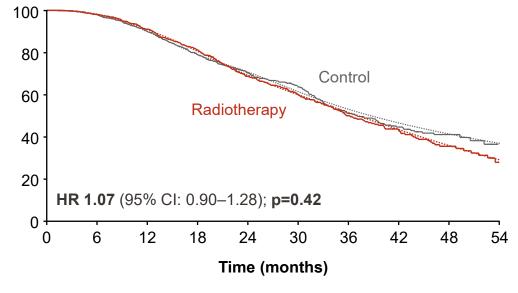
Figures adapted from: Cho Y, et al. 2016.
BCFFS, biochemical failure-free survival; OS, overall survival; PRT, prostate radiotherapy.
Cho Y, et al. *PLoS One* 2016;11:e0147191.
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## STAMPEDE – ADT+RT (Prostate)

Moderate OS benefit in patients with low-volume mHSPC (CHAARTED criteria)







High volume

Number at risk (events)

Control 409 (5) 400 (9) 387 (17) 361 (17) 265 (12) 217 (22) 155 (16) 110 (8) 67 (5) 25 Radiotherapy 410 (1) 405 (4) 399 (12) 366 (12) 301 (19) 242 (10) 200 (15) 137 (11) 77 (5) 25

567 (11) 547 (42) 500 (58) 428 (41) 312 (27) 245 (43) 161 (20) 100 (7) 48 (3) 13 553 (10) 537 (38) 487 (48) 424 (59) 282 (30) 216 (31) 146 (19) 90 (14) 44 (5) 20

2,061 patients who were newly diagnosed with mHSPC, randomised to ADT versus ADT + EBRT (prostate) – 18% upfront DOC Primary endpoint (OS) was negative. **Prespecified analysis** of OS by disease volume (CHAARTED)

8% improvement of OS @ 3 years in low volume mHSPC

Figures adapted from Parker CC, et al. 2018.

Solid lines show the Kaplan-Meier analysis and dotted lines show the flexible parametric model..

ADT, androgen deprivation therapy; DOC, docetaxel; EBRT, external beam radiotherapy; mHSPC, metastatic hormone-sensitive prostate cancer; OS, overall survival. Parker CC, et al. *Lancet* 2018;392:2353–2366.

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# Meta analysis of OS in radiotherapy trials in mHSPC



| a) | No effect on OS in  |
|----|---------------------|
|    | unselected patients |

| b) | No effect on OS in  |
|----|---------------------|
|    | low-volume patients |

c) Consistent effect on delaying time to ADT-resistance regardless of disease volume

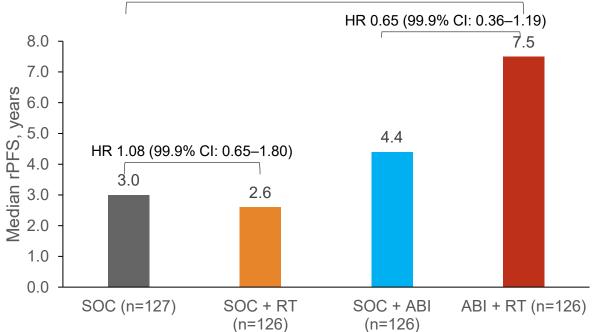
| Study  | Comparison                                  | N patients | HR           | [95%]        | Weight | Hazard Ratio  |
|--|---|------------|--------------|--------------|--------|---------------|
| HORRAD   | ADT ± RT                                    | 432        | 0.90         | [0.85; 1.00] | 12.1%  |               |
| STAMPEDE   | SOC ± RT                                    | 2061       | 0.90         | [0.85; 1.00] | 59.1%  | -             |
| PEACE-1  | SOC ± Abiraterone ± RT                      | 1173       | 0.98         | [0.85; 1.00] | 28.8%  |               |
| Random effects n   | nodel                                       |            | 0.92         | [0.85; 1.00] | 100.0% |               |
| Heterogeneity: I <sup>2</sup> =                                  | $= 0\%, \frac{2}{x_2^2} = 0.79 \ (p = 0.7)$ |            |              |              |        |               |
|  | -2  |            |              |              |        | 0.8 1 1.25    |
| Study  | Comparison                                  | N patients | HR           | [95%]        | Weight | Hazard Ratio  |
| HORRAD   | ADT ± RT                                    | 74         | 0.43         | [0.17; 1.07] | 12.5%  | -             |
| STAMPEDE   | SOC ± RT                                    | 819        | 0.66         | [0.54; 0.81] | 45.9%  | #             |
| PEACE-1  | SOC ± Abiraterone ± RT                      | 505        | 0.98         | [0.75; 1.29] | 41.6%  | +             |
| Random effects model   |   | 0.74       | [0.51; 1.06] | 100.0%       |        |               |
| Heterogeneity: $I^2 = 70\%$ , $_{\chi_3^2} = 6.56 \ (p = 0.038)$ |   |            |              |              |        |               |
|  | 2   |            |              |              |        | 0.2 0.5 1 2 5 |
| Study  | Comparison                                  | N patients | HR           | [95%]        | Weight | Hazard Ratio  |
| HORRAD   | ADT ± RT                                    | 332        | 0.78         | [0.63; 0.97] | 14.1%  |               |
| STAMPEDE   | SOC ± RT                                    | 1201       | 0.73         | [0.65; 0.82] | 48.7%  |               |
| PEACE-1  | SOC ± Abiraterone ± RT                      | 1172       | 0.79         | [0.69; 0.90] | 37.2%  |               |
| Random effects n   | nodel                                       |            | 0.76         | [0.70; 0.82] | 100.0% | •             |
| Heterogeneity: I <sup>2</sup> =                                  | $= 0\%, \frac{2}{x_0^2} = 0.84 \ (p = 0.7)$ |            |              |              |        |               |
|  |   |            |              |              |        | 0.75 1 1.5    |

## PEACE-1: Prostate RT lowers serious GU events?



#### Median rPFS (low volume)

HR 0.50 (99.9% CI: 0.28-0.88)



#### **Outcomes:**

- Improvements in serious GU events,
   both in SOC + ABI and SOC alone
- No added toxicity from RT

#### Serious GU events (patients with low volume disease)

| Event, N              | SOC (± ABI), n=200 | SOC (± ABI) + RT, n=198 |
|-----------------------|--------------------|-------------------------|
| Urinary catheter      | 9                  | 7                       |
| Double J stent        | 13                 | 12                      |
| Nephrostomy           | 2                  | 1                       |
| Prostate RT or TURP   | 27                 | 1                       |
| Radical prostatectomy | 1                  | 1                       |

#### Limitations: 1,2

- Purely subgroups
- Trial NOT powered for this
- ± Docetaxel unknown
- Discordant results to STAMPEDE
- Grade 1-2 not reported

# My conclusions for the radiotherapy of the primary in mHSPC



- Possible synergisms with ADT + ARPI + RTX administration
   → I would continue to recommend this in low volume mHSPC
   (rare concepts: deep remission with radiation of the metastases and delay of systemic therapy)
- RTX should <u>not</u> be <u>routinely</u> used in mHSPC for the sole purpose of preventing local complications and should not delay systemic treatment

Role of radical prostatectomy in metastatic prostate cancer: Data from the Munich Cancer Registry

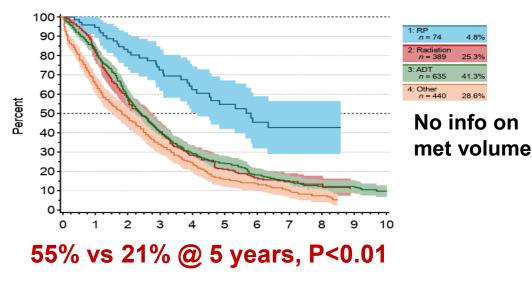


Figure adapted from Gratzke C, et al. Eur Urol 2014;66:602-603.

Cytoreductive radical prostatectomy in patients with prostate cancer and low volume skeletal metastases: Results of a feasibility and case-control study

Prospective: 23 RP (neoadj ADT) 38 control

- 1. Long median clinical PFS & CSS
- **2.** Continence rates < classical RP (14% severe)
- 3. Onco effect on PSA nadir post neoadj ADT
- 4. Less locally recurrent disease / morbidities
- 5. Potential change in approach in patients with low volume metastatic prostate cancer

Heidenreich A, et al. J Urol 2015;193:832-838.

A multi-institutional analysis of perioperative outcomes in 106 men who underwent radical prostatectomy for distant metastatic prostate cancer at presentation

Operative approach, overall complications, operative time, and length of hospital stay by centre

| Centre   | Patients, n | Open surgery,<br>n (%) | Robotic<br>surgery, n | Operative time, mins | Length of stay,<br>days | Complications at 90 days, n (%) |
|--|-------------|------------------------|-----------------------|----------------------|-------------------------|---------------------------------|
| 1  | 31          | 31 (100)               | 0                     | 190 (164-247)        | 3 (3-5)                 | 4 (12.9)                        |
| 2  | 31          | 27 (87.1)              | 4                     | 79.5 (67-140)        | 11 (9-13)               | 4 (12.9)                        |
| 3  | 25          | 25 (100)               | 0                     | 180 (156-212.5)      | 7 (6-8)                 | 6 (24.0)                        |
| 4  | 11          | 11 (100)               | 0                     | 170 (160-380)        | 13 (7-19)               | 6 (54.5)                        |
| 5  | 5           | 0                      | 5                     | 147 (130-180)        | 3 (3-3)                 | 2 (40.0)                        |
| 6  | 3           | 3 (100)                | 0                     | 159 (147-170)        | 9 (7-10)                | 0                               |
| Data for operative time and length of stay are presented as median (interguartile range) |             |                        |                       |                      |                         |                                 |

1. Acceptable and feasible in experienced hands

- 2. Complications rate for cRP = RP in non-mPCa
- 3. cRP avoids complications due to local progression

Table adapted from Sooriakumaran P, et al. Eur Urol 2016;69:788-794.

Does cytoreductive prostatectomy really have an impact on prognosis in prostate cancer patients with low-volume bone metastasis? Results

from a prospective case-control study

Prospective study

M+ 1-3 lesions 43 RP vs. 40 BST

No impact on oncological outcomes

Reduction of local complications

(7.0% vs 35%; p < 0.01)

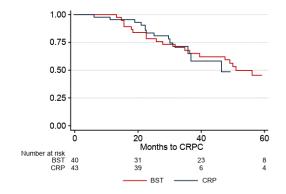


Figure adapted from Steuber T et al. Eur Urol Focus 2017;3:646–649

Role of radical prostatectomy in metastatic prostate cancer: Data from the Munich Cancer Registry

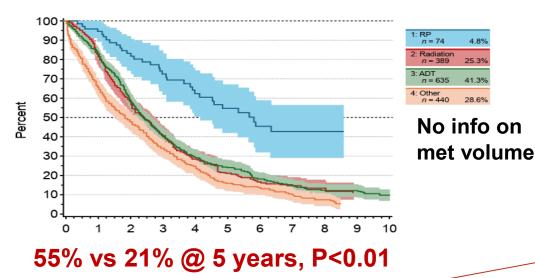


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| 4  | 11          | 11 (100)               | 0                     | 170 (160-380)        | 13 (7-19)               | 6 (54.5)                        |  |
| 5  | 5           | 0                      | 5                     | 147 (130-180)        | 3 (3-3)                 | 2 (40.0)                        |  |
| 6  | 3           | 3 (100)                | 0                     | 159 (147-170)        | 9 (7-10)                | 0                               |  |
| Data for operative time and length of stay are presented as median tile range) |             |                        |                       |                      |                         |                                 |  |

ck of strong evidence!

ed hands on-mPCa

ue to local progression

Does cytoreductive prostatectomy really have an impact on prognosis in prostate cancer patients with low-volume bone metastasis? Results

from a prospective case-control study

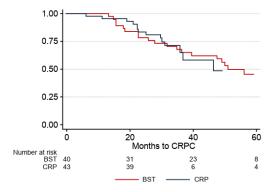
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Reduction of local complications

(7.0% vs 35%; p < 0.01)



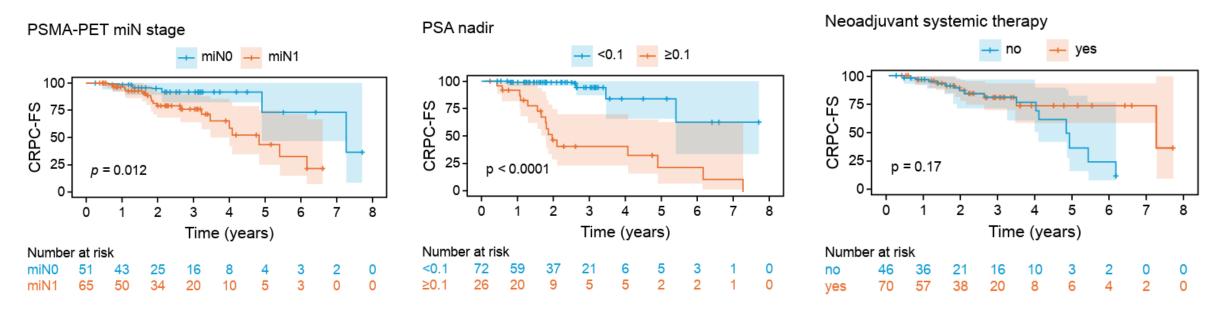
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Figure adapted from Steuber T et al. Eur Urol Focus 2017;3:646-649

Outcomes of cytoreductive radical prostatectomy for oligometastatic prostate cancer on PSMA COX LET: Results of a multicenter European study min s

### Cox univariable analysis for CRPC-FS:

miN status (HR 3.64, p=0.02) post-cRP PSA nadir (HR 0.09, p<0.001) Neoadjuvant Tx (HR 0.557, p=0.18)



- omPCa at PSMA PET favourable outcomes, but frequent CRPC
- cRP acceptable & feasible, but functional results worse than standard RP
- Potential predictive factors to tailor therapy & select optimal candidates for cRP
- Significant heterogeneity in treatment approaches

Figures adapted from Rajwa P, et al. 2024. cRP, cytoreductive radical prostatectomy; CRPC, castration-resistant prostate cancer; CRPC-FS; CRPC-free survival; HR, hazard ratio; omPCa, oligometastatic prostate cancer; PET, positron emission tomography; PSA, prostate-specific antigen; PSMA, prostate-specific membrane antigen; RP, radical prostatectomy; Tx, therapy. Rajwa P, et al. *Eur Urol Oncol* 2024;7:721–734.

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# Local therapy improves survival in metastatic prostate cancer

2004-2013

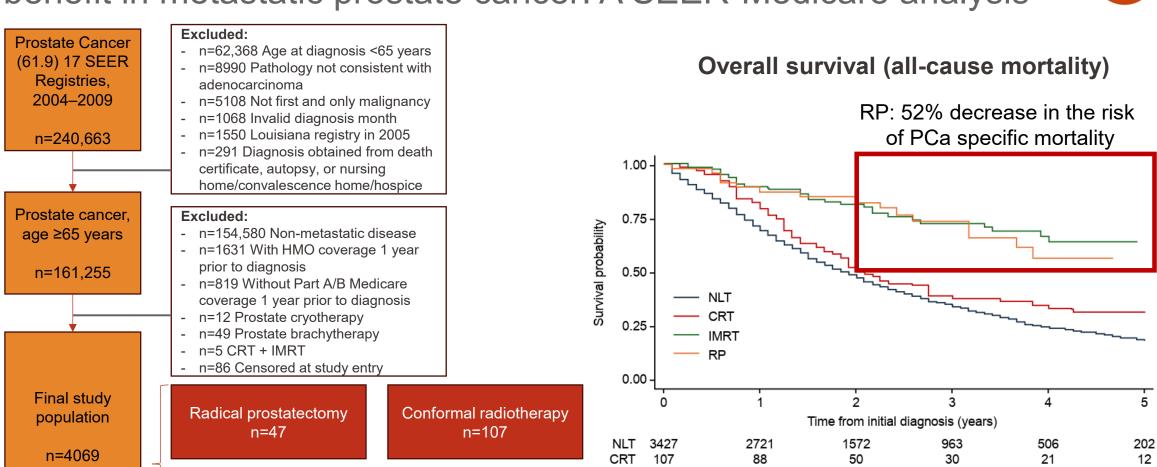
13,692 mPCa patients

474 local treatment: 313 RP & 161 RT

RP results in lower CSM (SHR 0.59) versus RT

|                       | RP vs RT         |         |  |
|-----------------------|------------------|---------|--|
| Variables             | SHR (95% CI)     | p value |  |
| Type of treatment     |                  |         |  |
| Radiotherapy          | Ref              |         |  |
| Radical prostatectomy | 0.59 (0.35–0.99) | 0.048   |  |
| Biopsy Gleason score  |                  |         |  |
| ≤7                    | Ref              |         |  |
| ≥8                    | 3.67 (2.03–6.66) | <0.001  |  |
| Unknown               | 0.80 (0.14-4.72) | 8.0     |  |
| Clinical T stage      |                  |         |  |
| T1/T2                 | Ref              |         |  |
| Т3                    | 101 (0.39-2.61)  | >0.9    |  |
| T4                    | 5.48 (2.64–11.4) | <0.001  |  |
| Clinical N stage      |                  |         |  |
| N0/Nx                 | Ref              |         |  |
| N1                    | 1.01 (0.34–2.99) | >0.9    |  |
| AJCC M stage          |                  |         |  |
| М1а                   | Ref              |         |  |
| M1b                   | 3.48 (1.51-8.04) | 0.01    |  |
| M1c                   | 4.70 (1.88–11.7) | <0.001  |  |
| Age, years            | 1.02 (0.98–1.05) | 0.3     |  |

# Radical prostatectomy or EBRT vs. no local therapy for survival benefit in metastatic prostate cancer: A SEER-Medicare analysis



IMRT

RP

88

47

79

42

61

33

41

27

Figures adapted from Satkunasivam R, et al. 2015.

No local treatment

n=3827

CRT, conformal radiotherapy; EBRT, external beam radiotherapy; HMO, health maintenance organization; IMRT, intensity modulated radiation therapy; NLT, no local therapy; PCa, prostate cancer; RP, radical prostatectomy. Satkunasivam R, et al. J Urol 2015;194:378–85.

Intensity-modulated

radiotherapy

n=88

## What about local tumour control?





# Local complications (up to 55%):

- bleeding
- obstruction
- retention
- hydronephrosis
- rectal stenosis
- pain

## What about local tumour control?

Primary treatment of the prostate improves local palliation in men who ultimately develop CRPC<sup>1</sup>

- n=263, 5 hospitals mCRPC
- CRP (n= 45) vs. RT (n=45) vs. Nil\* (n=173)
- Local complication
   (20.0% vs. 46.7% vs. 54.3%)
   p=0.001 for RP or RT vs. Nil; p=0.007 for RP vs RT
- Bladder outlet obstruction (35%) & ureteric obstruction (15%)

Cytoreductive prostatectomy for metastatic prostate cancer: First lessons learned from the multicentric prospective local treatment of metastatic prostate cancer (LoMP) trial<sup>2</sup>

## RP vs. SOC = RP reduced local symptoms

Local symptoms at 3 months follow-up

| Loodi dymptomo de o montho id       |                 |                    |               |         |
|-------------------------------------|-----------------|--------------------|---------------|---------|
|                                     | Total<br>(n=46) | RP + SOC<br>(n=17) | SOC<br>(n=29) | P-value |
| Local symptom, n (%)                |                 |                    |               | 0.014   |
| Continent and no local symptoms     | 25 (54)         | 12 (71)            | 13 (45)       |         |
| Urinary incontinence                | 7 (15)          | 5 (29)             | 2 (6.9)       |         |
| Obstructive voiding (> medication)  | 8 (17)          | 0                  | 8 (28)        |         |
| Obstructive voiding (>SPC/CIC)      | 3 (6.5)         | 0                  | 3 (10)        |         |
| Ureteric obstruction (>observation) | 1 (2.2)         | 0                  | 1 (3.4)       |         |
| Ureteric obstruction (>JJ-stent)    | 1 (2.2)         | 0                  | 1 (3.4)       |         |
|                                     |                 |                    |               |         |

30

<sup>\*65%</sup> of these patients started ADT immediately, and 25% underwent watchful waiting and subsequently started ADT upon progression. Table adapted from Poelaert F, et al. 2017.<sup>2</sup>

CIC, clean intermittent catheterization; CRP, cytoreductive radical prostatectomy; CRPC, castration-resistant prostate cancer; mCRPC, metastatic CRPC; RP, radical prostatectomy; RT, radiotherapy; SOC, standard of care; SPC, supreapubic catheter.

<sup>1.</sup> Won ACM, et al. *BJU Int* 2013;112:E250–255; 2. Poelaert F, et al. *Urology* 2017;106:146–152. MAT-NL-XTD-2025-00035 | July 2025

A systematic review and meta-analysis of the impact of local therapies on local event suppression in metastatic hormonesensitive prostate cancer

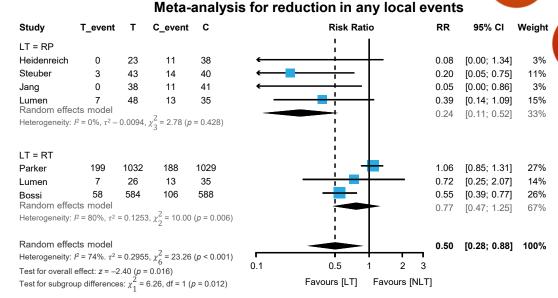
Meta-analysis for reduction in a study of the impact of local therapies on local event suppression in metastatic hormone-

- Six studies with 3565 patients

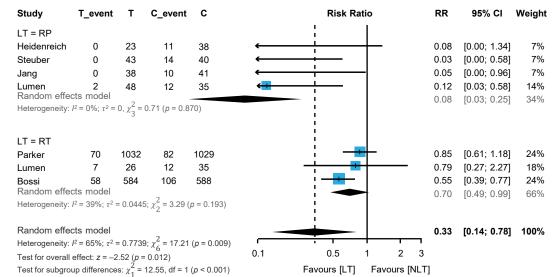
- 3 cRP; 2 RT; 1 with both

- Reduction in local event: RR: 0.50, cRP (RR: 0.24) but not RT (RR: 0.77)

- Reduction in events requiring surgery: RR: 0.33 cRP (RR: 0.08) and RT (RR: 0.70)



#### Meta-analysis for reduction in local events requiring surgery





## **Treatment**

**Surgery:** RP with bilateral pelvic superextended LND **Histology:** 

- Acinar and solid PC, GS 8 (4+4)
- ypT3b pN0(0/31) cM0 R1
- Positive margin (2 mm at left-sided prostate base)

Surgery and perioperative period without complications



• 66 y.o. gentleman



Sept 2020







### **Treatment**

**Surgery:** RP with bilateral pelvic superextended LND **Histology:** 

- Acinar and solid PC, GS 8 (4+4)
- ypT3b pN0(0/31) cM0 R1
- Positive margin (2 mm at left-sided prostate base)

Surgery and perioperative period without complications



66 y.o. gentleman

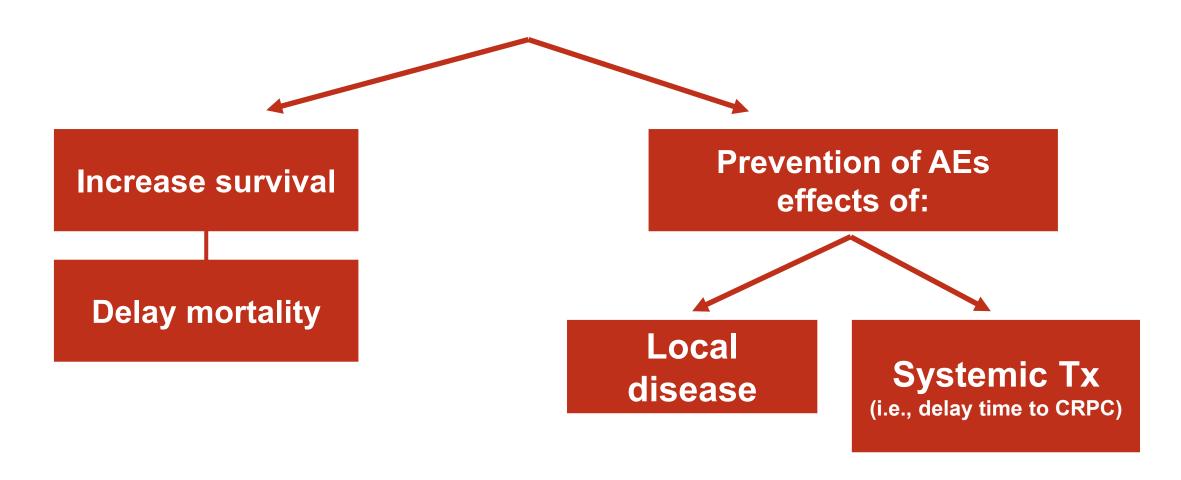
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| 6 weeks post surgery   | <ul> <li>PSA: &lt;0.01 ng/ml, testosterone: 0.03 ng/ml</li> <li>Mild daytime urinary stress incontinence (1 pad/day)</li> <li>No night-time incontinence</li> </ul> |
|------------------------|---|
| 36 months post surgery | <ul> <li>PSA: &lt;0.01 ng/ml, testosterone: 0.03 ng/ml</li> <li>No more SUI</li> <li>PET PSMA negative → stopped ARPI + ADT</li> </ul>                              |
| 49 months post surgery | <ul> <li>PSA: 0.6 ng/ml, PSADT 12 months, testosterone: 3.12 ng/ml</li> <li>PET PSMA prostate area? → salvage XRT</li> </ul>  |
| 67 months post surgery | <ul> <li>PSA: &lt;0.01 ng/ml, testosterone: 3.67 ng/ml</li> <li>PET PSMA negative</li> </ul>  |

ADT, androgen deprivation therapy; AE, adverse event; ARPI, androgen receptor pathway inhibitor; LND, lymph node dissection; GS, Gleason score; MRI, magnetic resonance imaging; PET, positron emission tomography; PSA, prostate-specific antigen; PSMA, prostate-specific membrane antigen; SUI, symptomatic urinary incontinence; XRT, radiotherapy.

Clinical case provided by the speaker.

## Future primary endpoints for local treatment in mHSPC



## Conclusions

- Radiation of primary = valid option in low volume HSPC (local control)
- Selection essential (patient and tumour characteristics)
  - Imaging and biomarkers (genetic)
  - Dynamic litmus test for response of metastases
- Radiotherapy to primary = standard in low-volume mHSPC
  - Need higher radiation dose & capitalise on abscopal effect
- Cytoreductive RP promising in prospective protocols
- Minimal invasive ablative technologies -> systemic immune effect?





What criteria do you consider when choosing an ARPI (in combination with ADT)?

### **Professor Vincent Khoo**

The Royal Marsden, London, UK





### Disclosures

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### Advisories, consultancies, speaker forums and conferences

- Accuray
- Advanced Accelerators Applications
- Astellas
- AstraZeneca
- Bayer
- Bristol Myers Squibb
- Boston Scientific
- J&J
- Merck Serono
- MSD
- Novartis

The speaker has received an honorarium for this presentation

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Jane Austen (1775–1817)

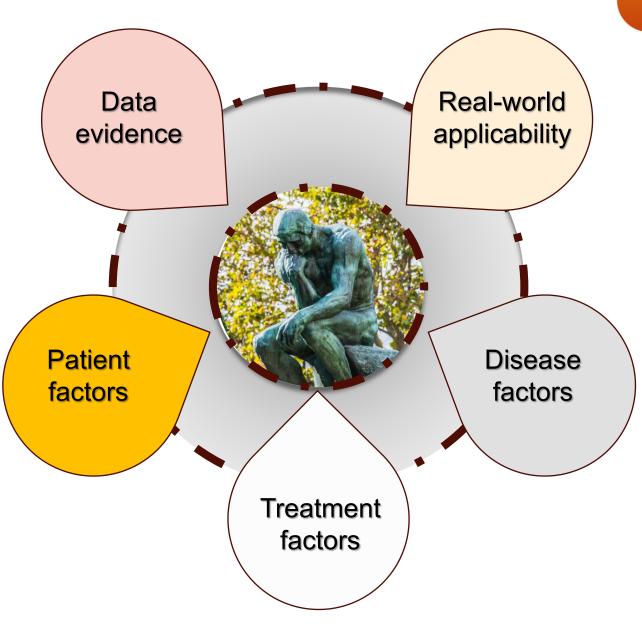
"It is a truth universally acknowledged, that a single man in possession of a good fortune, must be in want of a wife"

Pride and Prejudice (1813)



### Decisions!

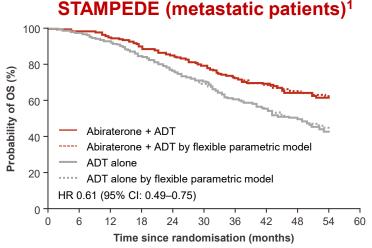




Images modified from Burkhard Kaufhold and Richard Hedrick on Unsplash. Speaker's own opinion.

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# Evidence (level 1): OS in mHSPC treated with ADT + ARPI doublet



TITAN<sup>4</sup>

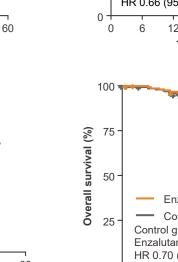
Abiraterone\* + ADT

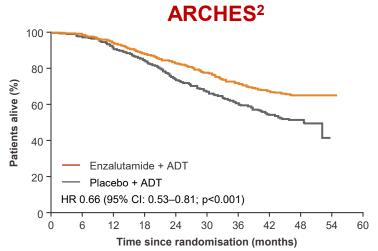
HR 0.65 (95% CI: 0.53-0.79); p<0.0001

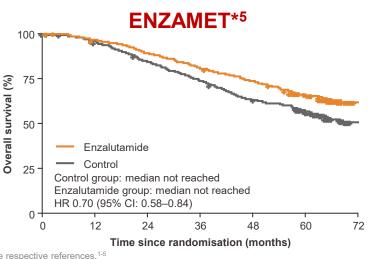
Time since randomisation (months)

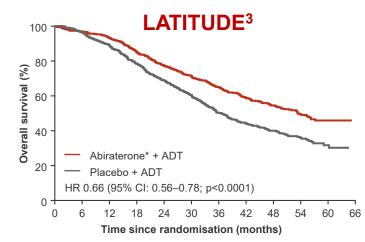
Placebo + ADT

Overall survival (%)









#### **ARANOTE**<sup>6</sup>

There was no statistically significant improvement in OS at the final analysis (HR 0.78 (95% CI: 0.58–1.05)

Graphs are for illustrative purposes; studies should not be compared. Figures adapted from the respective references.<sup>1-5</sup>

\*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.

ADT, androgen deprivation therapy; ARPI, androgen receptor pathway inhibitor; CI, confidence interval; HR, hazard ratio; LHRH, luteinizing hormone-releasing hormone-sensitive prostate cancer; OS, overall survival.

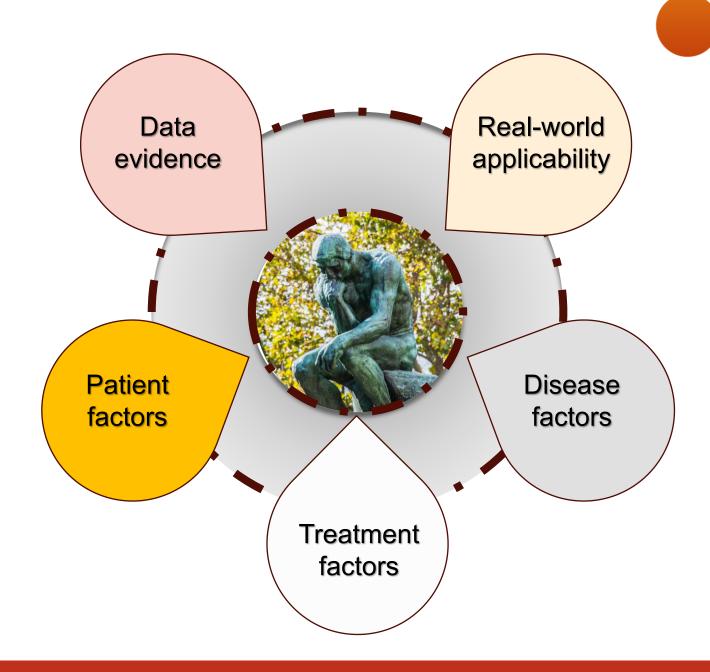
1. James ND, et al. *N Engl J Med* 2017;377:338–251; 2. Armstrong AJ, et al. *J Clin Oncol* 2022;40:1616–1622; 3. Fizazi K, et al. *Lancet Oncol* 2019;20:686–700; 4. Chi KN, et al. *J Clin Oncol* 2021;39:2294–2303;

5. Sweeney CJ, et al. *Lancet Oncol* 2023;24:323–334; 6. US FDA, FDA approves darolutamide for metastatic castration-sensitive prostate cancer [Websitef, Available at: https://www.fda.gov/drugs/resources-information-approved-drugs/fda-approves-darolutamide-metastatic-castration-sensitive prostate cancer [Websitef, Available at: https://www.fda.gov/drugs/fda-approves-darolutamide-metastatic-castration-sensitive prostate cancer [Websitef, Available at: https://www.fda.gov/drugs/fda-approves-darolutamide-metastatic-castration-sensitive prostate cancer [Websitef, Available at: https://www.fda.gov/drugs/fda-approves-darolutamide-metastatic-castration-sensitive prostate cancer [Websitef, Available at: https://

5. Sweeney C., et al. Lancet Orico 2025,24.32–334, 6. US FDA. FDA approves derolutamide for metastatic castration-sensitive prostate cancer [website]. Available at. https://www.ida.gov/drugs/resources-information-approved-drugs/resources-information-approved-drugs/resources-derolutamide-infeastatic-castrationsensitive-prostate-cancer. Floated and a castration-sensitive prostate and a cas

# Real-world evidence



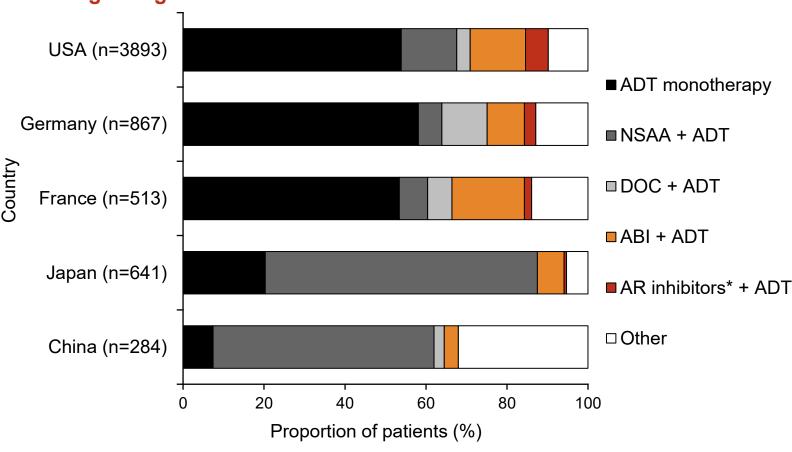


Images by Clay Banks and Richard Hedrick on Unsplash. Speaker's own opinion. MAT-NL-XTD-2025-00035 | July 2025

# What is the status?

Country-specific analysis of the proportion of patients with mHSPC receiving non-guideline–recommended treatments between 2018 and 2020

- mHSPC
- RWE
- USA, Germany,
   France, Japan, China<sup>†</sup>
- N=6198 (2018–2020)



ABI, abiraterone; ADT, androgen deprivation therapy; AR, androgen receptor; DOC, docetaxel; mHSPC, metastatic hormone-sensitive prostate cancer; NSAA, non-steroidal anti-androgen; RWE, real-world evidence. Goebell PJ, et al. *Future Oncol* 2024;14:903–918.

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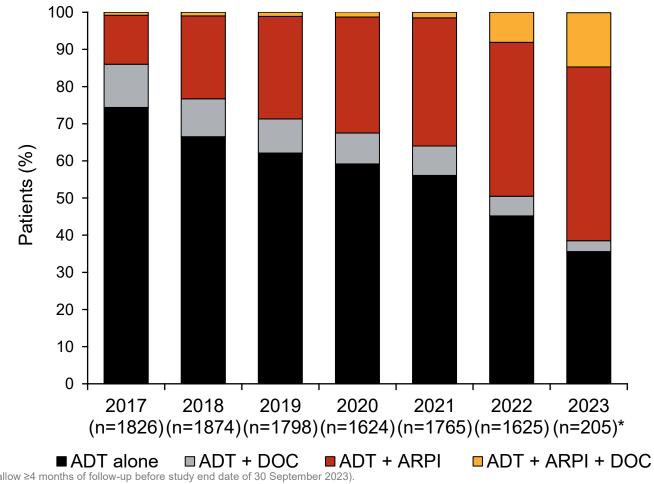
<sup>\*</sup>Apalutamide, darolutamide or enzalutamide.

<sup>†</sup>Study time frame of January 2018 through December 2019 for China versus through June 2020 for other countries due to data availability Figure adapted from Goebell PJ, et al. 2024.

# What is the status?

- mHSPC
- RWE
- US administrative claims database
- N=10,717 (2017–2023)

# Proportion of patients with mHSPC receiving treatments between 2017 and 2023 in the United States

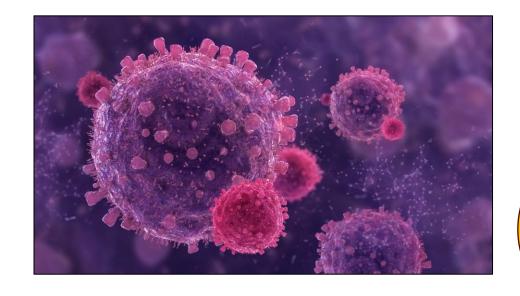


<sup>\*</sup>The year 2023 only includes patients who started treatment on or before 31 May (to allow ≥4 months of follow-up before study end date of 30 September 2023). Figure adapted from Ravel AD, et al., 2025.

ADT, androgen deprivation therapy; ARPI, androgen receptor pathway inhibitor; DOC, docetaxel; mHSPC, metastatic hormone sensitive prostate cancer; RWE, real-world evidence. Ravel AD, et al. *JCO Oncol Pract* 2025:OP2400690.

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# Disease factors



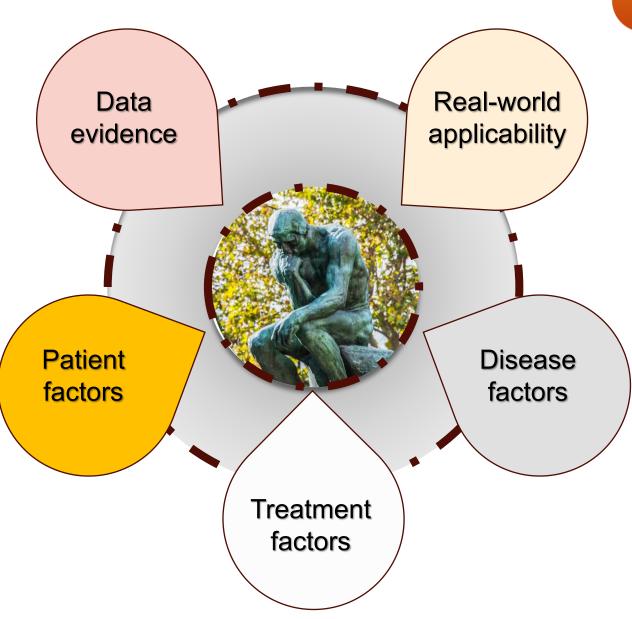


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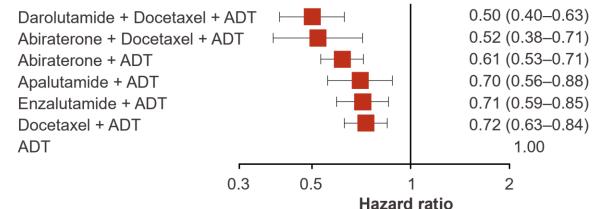
### Disease factors

# Meta-analysis of OS with different treatments in patients with mHSPC, according to disease volume

### OS

Low volume **Treatment** Low volume (N=3392) HR (95% CI) Apalutamide + ADT 0.52(0.34-0.79)0.55(0.39-0.77)Enzalutamide + ADT Darolutamide + Docetaxel + ADT 0.62(0.35-1.07)Abiraterone + ADT 0.68(0.50-0.91)Abiraterone + Docetaxel + ADT 0.75(0.43-1.31)Docetaxel + ADT 0.91(0.73-1.13)ADT 1.00 0.3 0.5 Hazard ratio

Treatment High volume (N=3392) HR (95% CI)



### De novo

High volume/burden, high risk



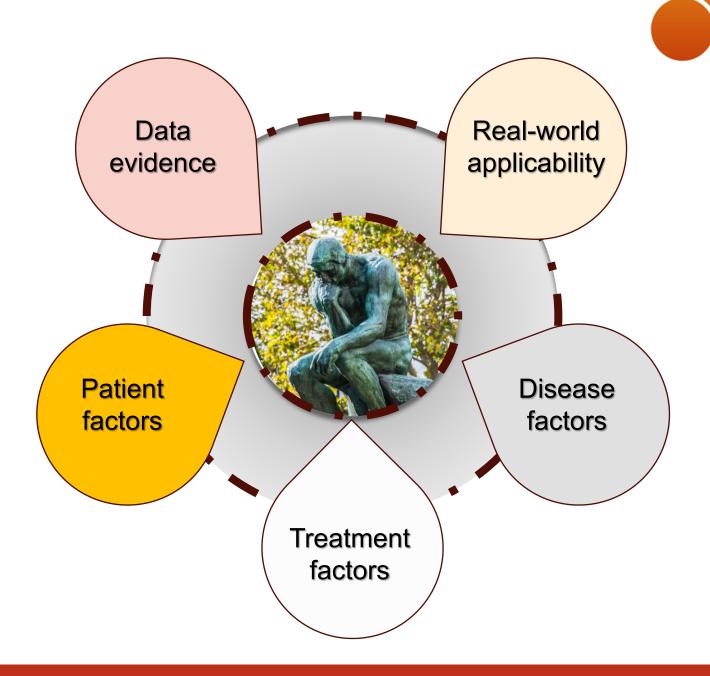
Low volume/burden, low risk

Metachronous

Seesaw image by Markus Winkler on Unsplash.
Figures adapted from Hoeh B, et al. 2023.
ADT, androgen deprivation therapy; CI, confidence interval; HR, hazard ratio; OS, overall survival.
Hoeh B, et al. *Eur Urol Focus* 2023;9:838–842.
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# Treatment factors





# ADT + ABI: Adverse events



# STAMPEDE safety population: Worst AE grade reported during entire time in the trial<sup>1</sup>

| Variable               | ADT alone (n=960) | ADT + ABI (n=948) |
|------------------------|-------------------|-------------------|
| Patients with an AE, I | າ (%)             |                   |
| Any grade              | 950 (99)          | 943 (99)          |
| Grade 3–5              | 315 (33)          | 443 (47)          |
| Grade 5 only*          | 3 (<1)            | 9 (1)             |

#### LATITUDE: Summary of all-cause AEs in the safety population<sup>4</sup>

|               | ABI + prednisone + ADT<br>(n=597) |             | PBO + ADT (n=602) |              |             | PBO crossover to ABI + prednisone (n=72) |              |            |            |
|---------------|-----------------------------------|-------------|-------------------|--------------|-------------|--|--------------|------------|------------|
|               | Grade<br>1–2                      | Grade<br>3  | Grade<br>4        | Grade<br>1–2 | Grade<br>3  | Grade<br>4                               | Grade<br>1–2 | Grade<br>3 | Grade<br>4 |
| Any, n<br>(%) | 161<br>(27)                       | 344<br>(58) | 29 (5)            | 257<br>(43)  | 267<br>(44) | 17 (3)                                   | 30 (42)      | 13 (18)    | 0          |

Tables are for illustrative purposes; studies should not be compared. Tables adapted from the respective references. 1.2

ABI, abiraterone acetate; ADT, androgen deprivation therapy; AE, adverse event; PBO, placebo; TRAE, treatment-related adverse event.

<sup>\*</sup>In the ADT alone group, there were two events of myocardial infarction and one event of bronchopneumonia. In the combination group, there were two events of pneumonia (one including sepsis), two events of stroke, and one event each of dyspnoea, lower respiratory tract infection, liver failure, pulmonary haemorrhage, and chest infection.

<sup>1.</sup> James ND, et al. *N Engl J Med* 2017;377:338–251; 2. Fizazi K, et al. *Lancet Oncol* 2019;20:686–700. MAT-NL-XTD-2025-00035 | July 2025

# ADT + ARPI: Adverse events

### ARCHES: Summary of AEs<sup>1</sup>

| Event, n (%)                           | ENZ + Al   | OT (n=572) | PBO + ADT (n=574) |            |  |
|--|------------|------------|-------------------|------------|--|
| AEs leading to withdrawal of treatment | 41 (7.2)   |            | (7.2) 30 (5.2)    |            |  |
| Drug-related serious AEs               | 22 (3.8)   |            | 16 (2.8)          |            |  |
| AEs leading to death                   | 14 (2.4)   |            | 10 (1.7)          |            |  |
|  | All grades | Grade ≥3   | All grades        | Grade ≥3   |  |
| AEs                                    | 487 (85.1) | 139 (24.3) | 493 (85.9)        | 147 (25.6) |  |
| Serious AEs                            | 104 (18.2) | 84 (14.7)  | 112 (19.5)        | 90 (15.7)  |  |

### **ENZAMET:\*** Participants with AEs<sup>2</sup>

|                  | SOC (n=558)  |             |            |            | ENZ + ADT (n=563) |             |            |                     |
|------------------|--------------|-------------|------------|------------|-------------------|-------------|------------|---------------------|
|                  | Grade<br>1–2 | Grade<br>3  | Grade<br>4 | Grade<br>5 | Grade<br>1–2      | Grade<br>3  | Grade<br>4 | Grade<br>5          |
| Any AE, n<br>(%) | 286<br>(51)  | 209<br>(37) | 46 (8)     | 10 (2)†    | 175<br>(31)       | 324<br>(58) | 51 (9)     | 13 (2) <sup>‡</sup> |

#### TITAN: Exposure-adjusted rates of TRAEs of interest in the safety population (N=1051)<sup>3</sup>

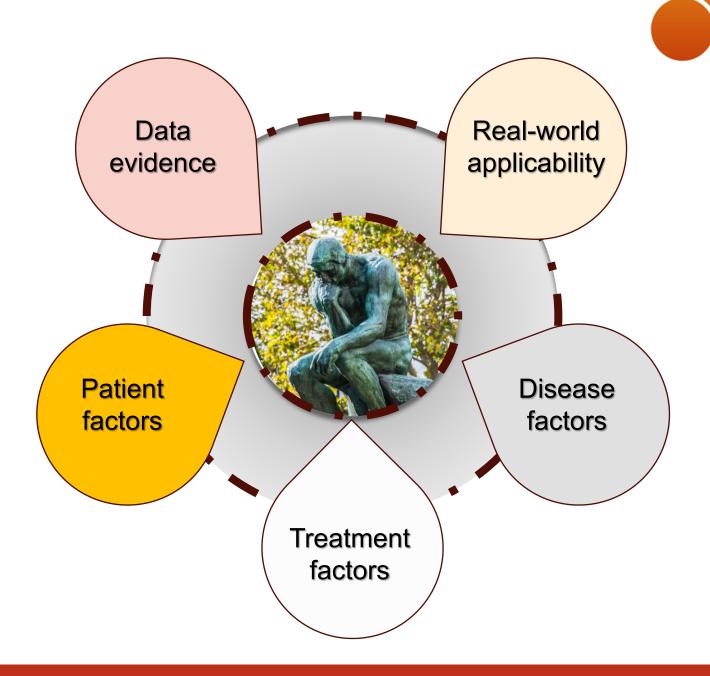
| Category  | APA + ADT (n=524)           |                            | PBO + ADT (n=527) |              | PBO to APA crossover (n=208) |              |
|---|-----------------------------|----------------------------|-------------------|--------------|------------------------------|--------------|
| Median treatment duration, months (range)¶                              | 39.3 (0–55.7)               |                            | 20.2 (0.1–37.0)   |              | 15.4 (0.6–18.2)              |              |
| Total exposure, patient-years   | 1358.9                      |                            | 793.3             |              | 243.6                        |              |
| TEAEs by group term, event (event rate/100 patient-years of exposure)** | All<br>grades <sup>††</sup> | Grade<br>3–4 <sup>††</sup> | All<br>grades     | Grade<br>3–4 | All<br>grades                | Grade<br>3–4 |
| Any TEAE of interest  | 543 (40.0)                  | 103 (7.6)                  | 178 (22.4)        | 21 (2.7)     | 102 (41.9)                   | 16 (6.5)     |

#### Tables are for illustrative purposes; studies should not be compared. Tables adapted from the respective references.<sup>1,3</sup>

\*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; †Deaths reported as one cardiac arrest, one gastrointestinal, one general disorder, one sudden death, four infections, and one pneumonitis; †Deaths reported as one cardiac disorder, one gastrointestinal, one general disorder, one sudden death, four infections, and one pneumonitis; two myocardial infarctions, three not specified, one general disorder, one sudden death, one acidosis, two strokes, one respiratory failure, and one respiratory disorder. Patients received treatment until disease progression or unacceptable toxicity; \*Event rate per 100 patient-years of exposure is calculated as 100 times the number of distinct events with the group term/total patient-years of exposure (total days of exposure/365.25) for the treatment group. AEs occurred from the time of the first dose of the study intervention through 30 days after the last dose. AEs were graded according to National Cancer Institute CTCAE, version 4.0.3. One patient who was assigned to the apalutamide group withdrew consent before treatment; 3 11 The worst toxicity grade is included. Patients with missing toxicity grades were counted in the all-grade column.<sup>3</sup>

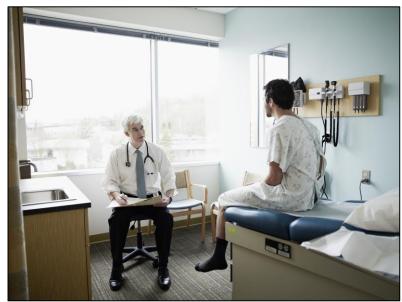
ADT, androgen deprivation therapy; AE, adverse event; APA, apalutamide; ARPI, androgen receptor pathway inhibitor; ENZ, enzalutamide; PBO, placebo.











### **ECOG/KPS**

- Trials ECOG 0–1
- RWE ECOG 0-1-2-3-?

### **Demographics**

- Age
- Race/ethnicity
- Socioeconomic status etc.

# ECOG/KPS demographics







### **Co-morbidities**

### **Frailty**

- Ideal: Comprehensive geriatric assessment<sup>1</sup>
- Busy clinics: Screening tests G-8<sup>2</sup>
  - ELFI<sup>3</sup>
  - Timed Chair Stand Test<sup>1</sup>
  - GST4<sup>1</sup>



#### The G-8 questionnaire<sup>2</sup>

| •   |  |
|---|--|
| Items   | Possible responses (score)                           |
| A. Has food intake declined over the past 3   | 0 = Severe decrease in food intake                   |
| months due to loss of appetite, digestive problems, chewing or swallowing difficulties? | 1 = Moderate decrease in food intake                 |
|   | 2 = No decrease in food intake                       |
| B. Weight loss during the last 3 months?  | 0 = Weight loss >3 kg                                |
|   | 1 = Does not know                                    |
|   | 2 = Weight loss between 1 and 3 kg                   |
|   | 3 = No weight loss                                   |
| C. Mobility?  | 0 = Bed or chair bound                               |
|   | 1 = Able to get out of bed/chair but does not go out |
|   | 2 = Goes out   |
| E. Neuropsychological problems?   | 0 = Severe dementia or depression                    |
|   | 1 = Mild dementia                                    |
|   | 2 = No psychological problems                        |
| F. BMI? (Weight in kg)/(height in m²)   | 0 = BMI <19  |
|   | 1 = BMI 19 to <21                                    |
|   | 2 = BMI 21 to <23                                    |
|   | 3 = BMI ≥23  |
| H. Takes more than three prescription drugs   | 0 = Yes  |
| per day?  | 1 = No   |
| P. In comparison with other people of the   | 0.0 = Not as good                                    |
| same age, how does the patient consider their health status?                            | 0.5 = Does not know                                  |
|   | 1.0 = As good  |
|   | 2.0 = Better   |
| P. Age  | 0 = >85  |
|   | 1 = 80–85  |
|   | 2 = <80  |
| Total score   | 0–17   |
|   |  |

Consultation image freely available from Microsoft stock images. Table adapted from Bellera CA< et al. 2012.<sup>2</sup>

# ECOG/KPS demographics<sup>1</sup>





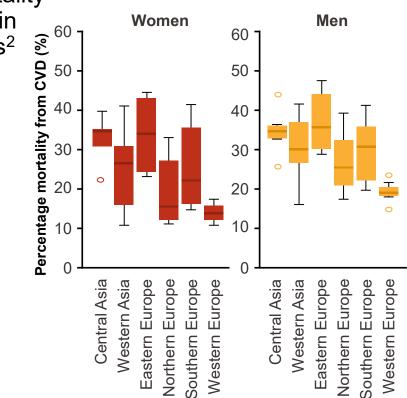




### Co-morbidities<sup>1</sup>

- Frailty
- CVD
  - Median age-standardised mortality for CVD is higher in men than in women in all European regions<sup>2</sup>
    - Men: (551/100,000)
    - Women: (441/100,000)
  - Mainly IHD<sup>2</sup>
    - Men: 203/100,000
    - Women: 113/100,000

# Percentage of premature deaths from CVD in Europe<sup>2</sup>



# ECOG/KPS demographics<sup>1</sup>







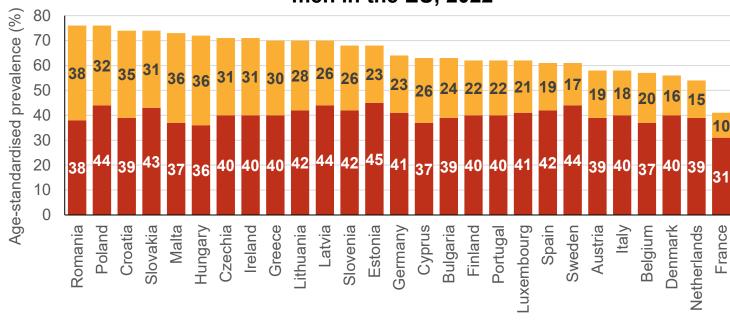




### Co-morbidities<sup>1</sup>

- Frailty
- CVD
- Obesity and diabetes

# Overweight and obesity prevalence among men in the EU, 2022<sup>2</sup>



■BMI 25 to <30 ■BMI 30+

Consultation image freely available from Microsoft stock images.

Figure adapted from Eufic. Europe's obesity statistics: figures, trends & rates by country, 2022.2

BMI, body mass index; CVD, cardiovascular disease; ECOG, Eastern Cooperative Oncology Group; KPS, Karnofsky Performance Scale.

1. Speaker's own opinion; 2. Eufic. Europe's obesity statistics: figures, trends & rates by country. Available at: Europe's obesity statistics: figures, trends & rates by country | Eufic. Last accessed: June 2025. MAT-NL-XTD-2025-00035 | July 2025

# ECOG/KPS demographics





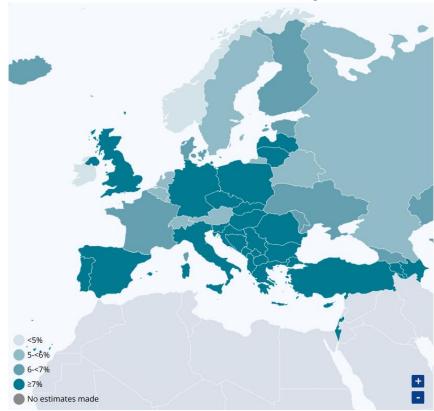






- Frailty
- CVD
- Obesity and diabetes

# Number of adults (aged 20–79 years) with diabetes in Europe<sup>2</sup>



Consultation image freely available from Microsoft stock images.

Figure adapted from the International Diabetes Federation regional report 2000–2050.<sup>2</sup>

CVD, cardiovascular disease; ECOG, Eastern Cooperative Oncology Group; KPS, Karnofsky Performance Scale.

1. Speaker's own opinion; 2. International Diabetes Federation. Europe Diabetes regional report 2000–2050; Available at: Diabetes in Europe | IDF Diabetes Atlas. Last accessed: June 2025. MAT-NL-XTD-2025-00035 | July 2025

### **ECOG/KPS** demographics













### **Co-morbidities**

- Frailty
- **CVD**
- Obesity and diabetes
- **Issues: Competing mortalities**





ECOG/KPS demographics

**Co-morbidities** 













- Tolerance<sup>1</sup>
- Functional reserves decline with age<sup>1</sup>
  - Enhanced by 'stressor'
- Polypharmacy<sup>2</sup>

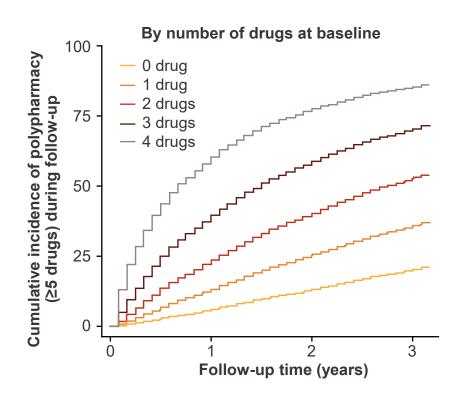


Image freely available from Microsoft stock images.
Figure adapted from Morin L, et al. 2018.
ECOG, Eastern Cooperative Oncology Group; KPS, Karnofsky Performance Scale.

1. Speaker's own opinion; 2. Morin L, et al. *Clin Epidermiol* 2018;10:289–298.
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**ECOG/KPS** demographics













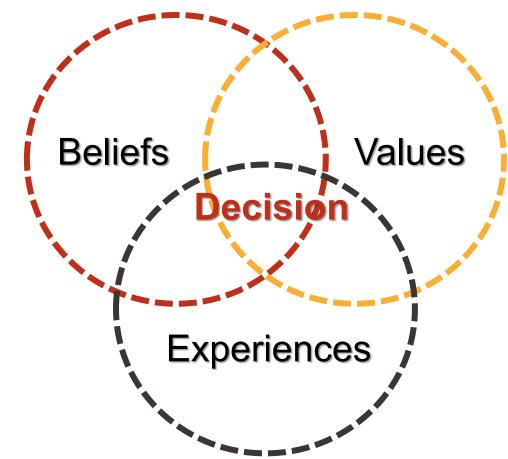




**Preferences** 

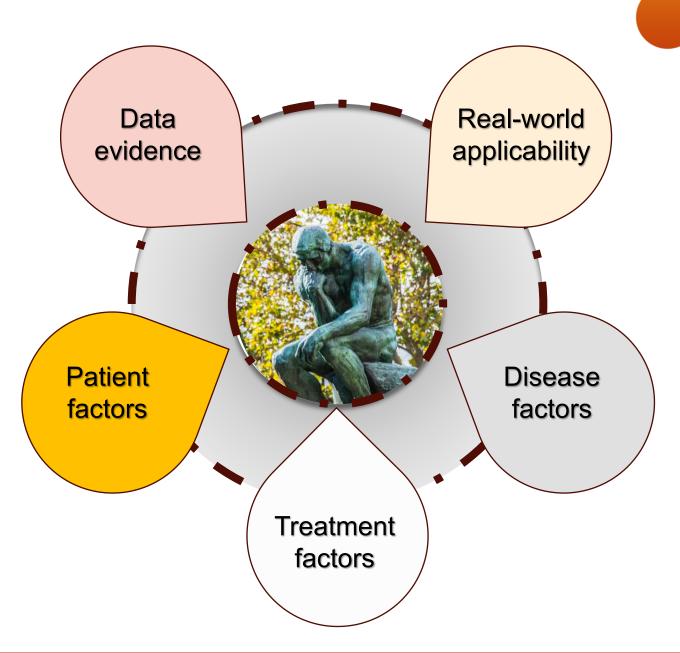
Tolerance Polypharmacy

### **Preferences**



# The decision





Images modified from Burkhard Kaufhold and Richard Hedrick on Unsplash. ARPI, androgen receptor pathway inhibitor. Speaker's own opinion.

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



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