

# Subsequent therapy after upfront chemo or neoadjuvant hormonal therapy (NHT)

# Case details and discussion plan



## Patient detailing

- A 60-year-old case with adenocarcinoma progressing to mCRPC was discussed.
- Patient had hypertension and no drug allergy history.
- The Gleason score was 4+3=7.
- CT scan and RO showed pelvic lymph nodes along with multiple bone lesions.
- Routine investigations:
  - PSA: 220 ng/mL
  - ALP: 554 IU/L
- Patient had upfront chemotherapy and received Apalutamide and then progressed to mCRPC.



## Discussion: How would you treat this patient?

**Abiraterone**

OR

**Docetaxel**

OR

**Enzalutamide**

OR

**Radium-223**

OR

**Cabazitaxel**

# Panelist insights

Experts shared regional insights about rational management of this case and choice of treatment for such patients.



Dr. Loh Chit Sin

- All treatment options are reasonable alternatives, however one not reported is Lutetium.
- As the patient has already had Apalutamide, change to another AR pathway blocker will not be effective.
- As long as gallium scan is positive, I would consider the patient for Lutetium.



A/Prof. Lee Lui Shiong

- Most patients prefer oral agents as they are convenient to use.
- If the patient has already received one novel AR driven agent and gets switched to other, the efficacy is limited.
- In my practice, we would also consider germline mutation testing.
- This patient has a long runway and has time to try different combinations.



A/Prof. Edmund Chiong

- Back-to-back hormonal therapy agents is not a good option to treat the patient.
- After treatment with apalutamide, I would not start abiraterone because the efficacy is quite poor.
- Docetaxel and Radium-223 are not preferable treatments for this patient.
- Genetic testing will definitely be beneficial.
- Lutetium-PSMA and PARP inhibitors can be considered.

## The panelists agreed that:

- Choice of therapy depends on individual practice.
- Back-to-back monotherapy agents is not a better option to treat the patient.
- Germline mutation testing can also benefit the treatment procedure.
- For this patient, changing treatment to another AR-blocker will not be beneficial.
- Gallium and Lutetium, theranostic twins, are advisable for treatment.
- Lutetium-PSMA and PARP inhibitors can be considered.

# Clinical insights

- There are various options to treat mCRPC as discussed by panelists and reported in the table below. However, the best option is not known so far.
- Olaparib is available as a precision medicine in case of BRCA1 or BRCA2 alterations. Therefore, investing in genetic counselling makes sense.
- In real world practice, hormone-hormone combinations is invoked. A lot of patients receive enzalutamide post abiraterone or abiraterone post apalutamide. However, regarding efficacy, more data is required.
- In US, most common therapies as per line are: 1L → AA + prednisone, 2L → Enza, 3L → Docetaxel.
- The patient can be administered with docetaxel or cabazitaxel or Ra-223 or Lutitium-177 to switch mode of action, instead of hormone-hormone sequencing as preferred in US.

Trials/ Parameters	VISION <sup>1</sup>	PROFound <sup>2</sup>	ALSYMPCA <sup>3</sup>	TROPIC <sup>4</sup>	AFFIRM <sup>5</sup>	Cougar 301 <sup>6</sup>	CARD <sup>7</sup>
<b>Arms</b>	177Lu-PSMA-617 vs SOC	Olaparib vs AA/Enza	Ra-223 vs BSC	Caba vs Mito	Enza vs PBO	AA vs PBO	Caba vs AA/Enza
<b>OS, months</b>	15.3 vs 11.3	18.5 vs 15.1	14.9 vs 11.3	15.1 vs 12.7	18.4 vs 13.6	15.8 vs 11.2	13.6 vs 11
<b>HR</b>	0.62	0.64	0.70	0.70	0.63	0.74	0.64

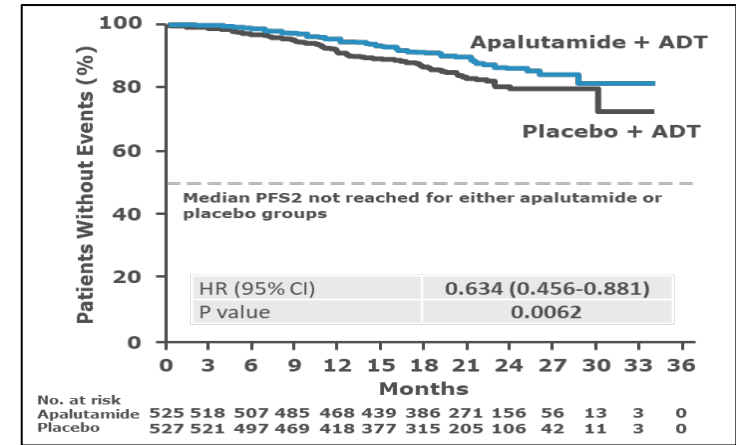
1L, first line; 2L, second line; 3L, third line; AA: Abiraterone acetate; BSC: best standard care; Caba: Cabazitaxel; Enza: Enzalutamide; HR: hazard ratio; Lu-PSMA: Lutetium-Prostate-specific membrane antigen; Mito: Mitoxantrone; OS: overall survival; PBO: placebo; Ra-223: Radium-223; SOC: standard of care

1. Morris MJ, et al. Plenary session at ASCO 2021; abstract LBA4. 2. de Bono J, et al. N Engl J Med. 2020;382:2091-102. 3. Parker C, et al. N Engl J Med. 2013;369:213-23. 4. de Bono JS, et al. Lancet. 2010;376:1147-54. 5. Scher HI, et al. N Engl J Med. 2012;367:1187-97. 6. Fizazi K, et al. Lancet Oncol. 2012;13:983-92. 7. Tombal B, et al. J Clin Oncol. 2020;38 Suppl 15:5569.

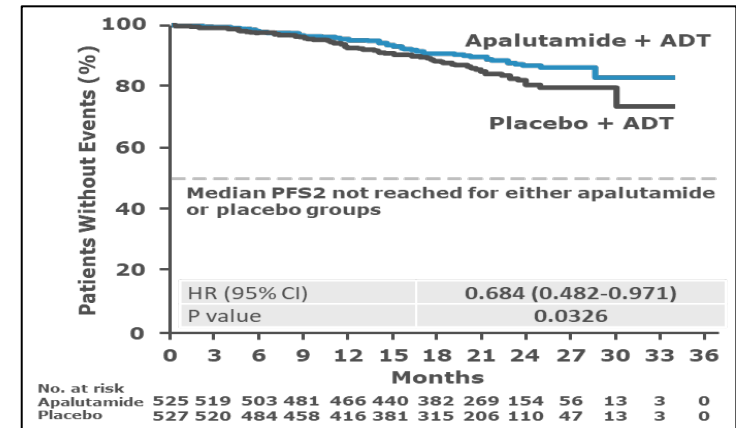
# Discussion and Conclusion

- In patients with mCRPC, germline or somatic HRR mutation testing will prove to be beneficial in the course of treatment.
- A lot of patients receive enzalutamide post abiraterone or abiraterone post apalutamide. However, more data is required in terms of efficacy.
- For this case, it will make sense to switch mode of action and go with docetaxel or cabazitaxel or Ra-223 or Lutitium-177, instead of hormone-hormone sequencing.
- According to Kim Chi study<sup>1</sup>, when the patient is treated with apalutamide upfront, there are less AR alterations. So, in theory abiraterone in sequence could make sense, but more clinical data is required for clarity.
- Apalutamide results in risk reduction of secondary progression, regardless of choice for hormonal or taxane therapy.<sup>2</sup>
- Upfront intensification is necessary with regards to better PFS and OS benefit of 14 months after therapy intensification.

## PFS2: Hormonal Group<sup>2</sup>



## PFS2: Taxane Group<sup>2</sup>



**THANK YOU!**