

# **Enzalutamide**

#### Indication

Treatment of metastatic hormone-relapsed prostate cancer for patients who have progressed on, or after, a docetaxel containing chemotherapy regimen.

(NICE TA316)

Treatment of metastatic hormone-relapsed prostate cancer for patients who are asymptomatic or mildly symptomatic after failure of androgen deprivation therapy (ADT) for whom chemotherapy is not yet clinically indicated.

(NICE TA377)

Treatment of hormone-sensitive metastatic prostate cancer in combination with androgen deprivation therapy. (NICE TA712)

#### **ICD-10** codes

Codes with a prefix C61

## **Regimen details**

Drug	Dose	Route
Enzalutamide	160mg OD	PO

# **Cycle frequency**

Continued until disease progression or unacceptable toxicity.

## **Number of cycles**

As above

## **Administration**

Enzalutamide is available as 40mg capsules.

Capsules should be swallowed whole with water, either with or without food.

In the event of a missed dose, treatment should be taken as close as possible to the usual time. If a whole day is missed, treatment should continue the next day at the usual dose.

## **Pre-medication**

Nil

## **Emetogenicity**

This regimen has mild emetic potential (no routine antiemetics are required).

## **Additional supportive medication**

Nil

# **Extravasation**

N/A

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## Investigations – pre first cycle

Investigation	Validity period (or as per local policy)	
FBC	14 days	
U+E (including creatinine)	14 days	
LFTs	14 days	
PSA	14 days	
ECG	14 days	

# Investigations – pre subsequent cycles

Investigation	Validity period (or as per local policy)	
FBC	Monthly or 2 monthly as indicated	
U+E (including creatinine)	Monthly or 2 monthly as indicated	
LFTs	Monthly or 2 monthly as indicated	
PSA	Monthly or 2 monthly as indicated	
ECG	If clinically indicated	

# Standard limits for administration to go ahead

If blood results not within range, authorisation to administer must be given by prescriber/ consultant

Investigation	Limit
Creatinine clearance (CrCl)	≥ 30ml/min
Bilirubin	≤ULN
AST/ALT	≤5 x ULN

#### **Dose modifications**

## Haematological toxicity

Enzalutamide is not myelosuppressive and so treatment may continue in the presence of myelosuppression.

## Renal impairment

CrCl (mL/min)	Enzalutamide dose
≥ 30	100%
< 30	No data in patients with CrCl < 30mL/min – use with caution

# • Hepatic impairment

No dose adjustment is necessary for patients with pre-existing mild hepatic impairment (Child-Pugh Class A). Caution is required in patients with moderate hepatic impairment (Child-Pugh Class B) and enzalutamide is not recommended in patients with severe hepatic impairment (Child-Pugh Class C).

Child Pugh Classification:				
Score	1	2	3	
Bilirubin (μmol/L)	<34	34-50	>50	
Albumin (g/L)	>35	28-35	<28	
PT (s prolonged)	<4	4-6	>6	
Encephalopathy	none	mild	marked	
Ascites	none	mild	marked	

The individual scores are summed and then grouped as:

- <7 = A
- 7-9 = B
- >9 = C

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#### Other toxicities

For any  $\geq$  grade 3 toxicity, withhold treatment for one week, or until symptoms improve to  $\leq$  grade 2. Resume treatment at same dose or consider dose reduction to 120mg or 80mg, depending on clinical situation (consultant decision).

# Adverse effects - for full details consult product literature/ reference texts

## • Serious side effects

Seizures Posterior reversible encephalopathy syndrome QT interval prolongation

## Frequently occurring side effects

Headache Fatigue Hypertension

#### • Other side effects

Flushes Anxiety Amnesia Dry skin

# Significant drug interactions – for full details consult product literature/ reference texts

Enzalutamide is a strong CYP3A4 inducer and so interactions with medicinal products eliminated via this enzyme are expected (e.g. fentanyl, tramadol, clarithromycin, warfarin, corticosteroids, levothyroxine, statins, antiepileptics, digoxin, beta blockers, calcium channel blockers). It may take up to one month for enzyme induction to reach full potential. Avoid concomitant use due to risk of therapeutic failure, or use with caution and close monitoring. Avoid co-administration with warfarin.

**Strong CYP2C8 inhibitors** (e.g. gemfibrozil) – may reduce metabolism and increase toxicity of enzalutamide: avoid concomitant use. If co-administration is deemed essential reduce dose to 80mg OD during this period.

**CYP2C8 inducers** (rifampicin) – may increase enzalutamide metabolism leading to therapeutic failure: avoid concomitant use.

Medicinal products which prolong the QT interval: avoid concomitant use.

## **Additional comments**

#### References

- National Institute for Health and Clinical Excellence. NICE Technology Appraisal Guidance 316 accessed 6 May 2015 via <a href="https://www.nice.org.uk">www.nice.org.uk</a>
- Cabot, R et al; NEJM 2012; 367: 1187 1197
- Beer, T et al; NEJM 2014; 371: 424 433
- Summary of Product Characteristics Enzalutamide (Astellas) accessed 6 May 2015 via www.medicines.org.uk

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