

Darolutamide

Indication

Darolutamide in combination with androgen deprivation therapy (ADT) is recommended for treating hormone-relapsed prostate cancer (i.e. non-metastatic castrate resistant prostate cancer) in adults at high risk of developing metastatic disease.

(NICE TA660)

ICD-10 codes

C61

Regimen details

Drug	Dose	Route
Darolutamide	600mg BD	Oral

Cycle frequency

Continuous

Number of cycles

Continued until disease progression or unacceptable toxicity

Administration

Darolutamide is available as 300mg tablets

Darolutamide should be taken with food. Tablets should be swallowed whole with water and not broken or crushed.

If a dose is missed, the dose should be taken as soon as the patient remembers prior to the next scheduled dose. The patient should not take two doses to make up for a missed 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
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	
FBC	Monthly, increasing to 2-monthly as appropriate	
U&E	Monthly, increasing to 2-monthly as appropriate	
LFTs	Monthly, increasing to 2-monthly as appropriate	
PSA	Monthly, increasing to 2-monthly as appropriate	
ECG	As 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	≤1.5 x ULN
AST/ALT	≤5 x ULN
Neutrophils	≥1 x 10 ⁹ /L

Dose modifications

Haematological toxicity

Withhold darolutamide if neutrophils $< 1 \times 10^9/L$.

• Renal impairment

No dose adjustment is required for patient with mild or moderate renal impairment (≥30ml/min).

For patients with creatinine clearance of 15-29ml/min, not receiving haemodialysis, the recommended starting dose is 300mg~BD. There is no data for patients with CrCl < 15ml/min

Hepatic impairment

No dose adjustment is necessary for patients with mild hepatic impairment.

For patients with moderate or severe hepatic impairment (Child-Pugh B or C), the recommended starting dose is 300mg BD.

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

If patient experiences ≥ Grade 3 toxicity or an intolerable adverse reaction, dosing should be withheld or reduced to 300mg BD until symptoms improve. Treatment may then be resumed at a dose of 600mg BD.

Dose reduction below 300mg BD is not recommended as efficacy has not been established.

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

Serious side effects

QT prolongation Ischaemic heart disease Heart failure

Frequently occurring side effects

Fatigue Rash Deranged LFTs Neutropenia

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

Strong and moderate CYP3A4 inducers and P-gp inducers (e.g. carbamazepine, phenobarbital, St John's Wort, phenytoin and rifampicin): reduces darolutamide exposure, consider alternative medicines with no or weak potential to induce CYP3A4 or P-gp

Strong CYP3A4 and P-gp inhibitors (e.g. itraconazole): increases darolutamide exposure, monitor closely for toxicity and dose reduce as needed

BCRP, OATP1B1 and OATP1B3 substrates (e.g. methotrexate, sulfasalazine, fluvastatin, atorvastatin, pitavastatin): darolutamide may increase plasma concentrations of these substrates, monitor closely for toxicity if concomitant use cannot be avoided.

Rosuvastatin: 5-fold increase rosuvastatin exposure via BCRP, OATP1B1 and OATP1B3 inhibition, avoid.

Medicinal products which prolong the QT interval: avoid concomitant use. These can include some antiarrhythmics, methadone, moxifloxacin and antipsychotics

Additional comments

References

- National Institute for Health and Care Excellence (NICE TA660) accessed 7th September 2021 via www.nice.org.uk
- Summary of Product Characteristics Darolutamide (Bayer) accessed 7th
 September 2021 via <u>www.medicines.org.uk</u>
- Fizazi, K. *et al.* Darolutamide in Nonmetastatic Castration-Resistant Prostate Cancer. N Eng J Med 2019; 380:1235

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