

# Dostarlimab, carboplatin, paclitaxel for primary advanced or recurrent endometrial cancer

## Indication

First-line treatment for primary advanced or recurrent endometrial cancer with deficient mismatch repair gene (dMMR) or microsatellite instability-high (MSI-H)

## Regimen details

### Cycles 1-6:

Drug	Dose	Route	Frequency
Dostarlimab	500mg	Intravenous	Every 3 weeks
Paclitaxel	175mg/m <sup>2</sup>	Intravenous	Every 3 weeks
Carboplatin	AUC 5	Intravenous	Every 3 weeks

### Cycles 7+

Drug	Dose	Route	Frequency
Dostarlimab	1000mg	Intravenous	Every 6 weeks

## Cycle frequency

Every 3 weeks for the first 6 cycles, then every 6 weeks for dostarlimab maintenance

## Number of cycles

Up to 3 years or until disease progression

## Administration

Administer dostarlimab first, followed by carboplatin and paclitaxel when administered on the same day.

**Dostarlimab 500 mg** should be administered in 100mL sodium chloride 0.9% over 30 minutes

**Dostarlimab 1000 mg** should be administered in 250mL sodium chloride 0.9% over 30 minutes

Dostarlimab should be administered via an infusion set with an in-line sterile, non-pyrogenic, low protein binding filter (pore size 0.2 – 5.0µm)

After the infusion the line should be flushed with 30mL sodium chloride 0.9%

Patients should be monitored every 15 mins during the infusion (blood pressure, pulse and temp) and assessed for infusion related reactions. For mild to moderate reactions, decrease infusion rate and closely monitor. Premedication with paracetamol and chlorphenamine should then be used for future cycles. For severe infusion related reactions discontinue treatment

Paclitaxel is administered in a 250-500mL sodium chloride 0.9% non-PVC infusion bag with a 0.22 micron in-line filter over 3 hours. Blood pressure and pulse should be monitored regularly (e.g. every 30 minutes) during paclitaxel infusion

Paclitaxel must be administered before carboplatin

Carboplatin should be administered in 250-500mL glucose 5% over 30-60 minutes

Patients should be observed closely for hypersensitivity reactions, particularly during the first and second infusions. Hypersensitivity reactions may occur within a few minutes following the initiation of the infusion of paclitaxel or carboplatin. Facilities for the treatment of hypotension and bronchospasm and anaphylaxis must be available.

If hypersensitivity reactions occur, consult “Protocol for the management of hypersensitivity to carboplatin and taxane-based chemotherapy” document

### Pre-medication

Chlorphenamine 10mg IV

Dexamethasone 20mg IV

Ondansetron 8mg IV

H<sub>2</sub> antagonist – 1 hour before treatment if previous hypersensitivity reaction

### Emetogenicity

Moderate

### Additional supportive medication

### Extravasation

Carboplatin – irritant

Paclitaxel -vesicant

Dostarlimab - neutral

### Investigations – pre first cycle

Investigation	Validity period
FBC	14 days
U+E (including creatinine)	14 days
LFT (including AST)	14 days
Thyroid function tests	14 days
Glucose, HBA1c	14 days
Calcium, Phosphate	14 days
Cortisol	14 days
CK	14 days
Amylase	14 days
Troponin	14 days
Hepatitis B, Hepatitis C and HIV screen	14 days
Follicle stimulating hormone	14 days
Luteinizing hormone	14 days
Testosterone	14 days

### Investigations –pre subsequent cycles

FBC, U+E (including creatinine), LFT (including AST), Bone, Magnesium.

TFT, random glucose, random cortisol, CK, amylase and troponin (every 6 weeks)

### Standard limits for administration to go ahead

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

Investigation	Limit
Neutrophil count	$\geq 1.5 \times 10^9/L$
Platelet count	$\geq 100 \times 10^9/L$
Creatinine clearance	$\geq 30$ mL/min and no more than 10% change to baseline
Bilirubin	See below
AST	See below

## Dose modifications

### Haematological toxicity

Neutrophils (x 10 <sup>9</sup> /L)		Platelets (x 10 <sup>9</sup> /L)	Carboplatin dose	Paclitaxel dose
≥ 1.5	And	≥ 100	100%	100%
< 1.5	And / or	50 - 100	Delay 1 week or until recovery. If longer than 1 week, then reduce dose by 1 AUC level. If isolated neutropenia, GCSF can be used, +/- or dose reduction.	Delay 1 week or until recovery. If longer than 1 week, then reduce dose to 135-150mg/m <sup>2</sup> . If isolated neutropenia, GCSF can be used, +/- or dose reduction.
Any		<25 or <50 with bleeding	Delay 1 week or until recovery. Then reduce dose by at least 20%	Delay 1 week or until recovery. Then reduce dose by 20% (bear in mind: thrombocytopenia is driven more by carboplatin)
Febrile neutropenia			Delay 1 week or until recovery. Then reduce dose by at least 20%	Delay 1 week or until recovery. Then reduce dose by at least 20%

If a second episode of neutropenic fever or thrombocytopenia requiring dose reduction occurs, another minimum 25% dose reduction of carboplatin and paclitaxel is recommended. Chemotherapy should be discontinued if a third episode occurs.

If a dose reduction is required due to low neutrophils or platelets, then that dose reduction is maintained for subsequent cycles.

### Renal Impairment

Adjust dose of carboplatin if serum creatinine increases by >10% of baseline

### Hepatic Impairment

Bilirubin (x ULN)		AST/ALT (x ULN)	Carboplatin dose	Paclitaxel dose
<1.25	And	<5	100%	100%
1.25 – 2	And		100%	Delay to recovery and reduce to 50-75% dose
2 – 5	And		80-100%	omit
>5	Or	≥5	(Not recommended – consultant decision)	

### Neuropathy

Grade 2: Reduce paclitaxel dose to 135mg/m<sup>2</sup> at first occurrence, if further deterioration omit

Grade 3 or above: withhold until grade ≤ 1 then restart at 100mg/m<sup>2</sup>. Omit if persistent / recurrence

## Immunotherapy Toxicity

Do not amend the dose of dostarlimab

Consider immunotherapy driven toxicity as a potential reason for all changing laboratory results and discuss with a consultant if any concerns

## Renal impairment

No dose adjustment is recommended for mild to moderate renal impairment. There are limited data in patients with severe renal impairment or end stage renal failure undergoing dialysis

## Hepatic impairment

No dose adjustment is recommended in patients with mild liver impairment. There are limited data in patients with moderate liver impairment and no data in patients with severe liver impairment.

Immunotherapy toxicities should be aggressively managed as can cause permanent and life-threatening complications.

Refer to **UKONS and ESMO guidance for treatment of immune related toxicities.**

Available at:

<https://www.healthierlsc.co.uk/canceralliance/chemotherapy-protocols/immunotherapy-toxicity-guidelines>

Toxicity	Definition	Action
Colitis	Grade 1	Continue and closely monitor
	Grade 2-3	Withhold until symptoms resolve to $\leq$ grade 1
	Grade 4	Permanently discontinue Dostarlimab
Pneumonitis	Grade 1	Continue and closely monitor
	Grade 2	Withhold until symptoms resolve to $\leq$ grade 1
	Grade 3-4 or recurrent grade 2	Permanently discontinue Dostarlimab
Nephritis	Grade 1 (creatinine $\leq$ 1.5 x ULN)	Continue and closely monitor
	Grade 2 (creatinine 1.5-3 x ULN)	Withhold until symptoms resolve to $\leq$ grade 1
	Grade 3 (creatinine $>$ 3 x ULN)	Permanently discontinue Dostarlimab
Endocrine	Symptomatic hypophysitis	Withhold until symptoms resolve to $\leq$ grade 1
	Type 1 diabetes with grade $>$ 3 hyperglycaemia (glucose $>$ 13.9 mmol/L) or ketoacidosis	Withhold until $\leq$ grade 2 May consider recommencing after corticosteroid taper or discontinue.
	Hyperthyroidism $\geq$ grade 3	Withhold until $\leq$ grade 2 May consider recommencing after corticosteroid taper or discontinue.
	Hypothyroidism	Continue and manage with replacement therapy
Hepatitis	AST/ALT 3-5 x ULN or Bilirubin $>$ 1.5-3 x ULN	Withhold until resolves to $\leq$ grade 1
	AST/ALT $>$ 5 x ULN or Bilirubin $>$ 3 x ULN	Permanently discontinue Dostarlimab
	Liver metastasis and baseline AST/ALT 3-5 x ULN but AST/ALT increases $\geq$ 50% for $\geq$ 1 week	Permanently discontinue Dostarlimab
Infusion-related reactions	Grade 3-4	Permanently discontinue Dostarlimab

Dostarlimab should be permanently discontinued if:

- Grade 4 toxicity (except for endocrinopathies that are controlled with replacement hormones)
- Corticosteroid dosing cannot be reduced to  $\leq$ 10 mg prednisone or equivalent per day within 12 weeks
- Treatment-related toxicity does not resolve to Grade 0-1 within 12 weeks after last dose
- Any event occurs a second time at Grade  $\geq$  3 severity
- Grade 3 or 4 myocarditis
- Grade 3 or 4 encephalitis

- Grade 3 or 4 Guillain-Barré syndrome
- Grade 3 or 4 or recurrent pneumonitis

### Adverse effects –

for full details consult product literature/ reference texts

- **Serious side effects**

Myelosuppression  
Pneumonitis  
Colitis  
Hepatitis  
Nephritis  
Endocrinopathies  
Pancreatitis

- **Frequently occurring side effects**

Myelosuppression  
Reduced appetite  
Headache  
Dizziness  
Dry eyes  
Cough  
Constipation  
Nausea  
Diarrhoea  
Hypertension (particularly if also receiving bevacizumab)  
Low magnesium  
Neuropathy  
Allergic reactions  
Rash  
Fatigue  
Myalgias  
Hyperglycaemia  
Hypocalcaemia

- **Other side effects**

Arthralgia  
Alopecia

### Significant drug interactions

– for full details consult product literature/ reference texts

**Corticosteroids:** use of systemic corticosteroids at baseline, before starting Dostarlimab, should be avoided because of their potential interference with the pharmacodynamic activity and efficacy of Dostarlimab. However, systemic corticosteroids or other immunosuppressants can be used after starting Dostarlimab to treat immune-related adverse reactions.

**Warfarin/coumarin anticoagulants:** increased or fluctuating anticoagulant effects. Avoid if possible, consider switching patient to a low molecular weight heparin or DOAC during treatment or if the patient continues taking warfarin monitor the INR at least once a week and adjust dose accordingly.

**Paclitaxel is a CYP 2C8/9 and CYP 3A4 substrate.** Drug levels may be increased by inhibitors of these enzymes and decreased by inducers of these enzymes.

### Carboplatin

**Aminoglycoside antibiotics:** increased risk of nephrotoxicity and ototoxicity

**Clozapine:** increased risk of agranulocytosis, avoid concomitant use

**Diuretics:** increased risk of nephrotoxicity and ototoxicity

**Phenytoin:** carboplatin reduces absorption and efficacy of phenytoin

### **Additional comments**

Women of childbearing potential should use effective contraception during treatment and for at least 4 months after the last dose.

### **References**

Mirza et al. Dostarlimab for Primary Advanced or Recurrent Endometrial Cancer. N Engl J Med 2023; 388:2145-2158  
DOI: 10.1056/NEJMoa2216334

---

**THIS PROTOCOL HAS BEEN DIRECTED BY DR YIANNAKIS, CONSULTANT ONCOLOGIST**

**RESPONSIBILITY FOR THIS PROTOCOL LIES WITH THE HEAD OF SERVICE**

Date: August 2023

Review: August 2025

VERSION: 1

---