

# Durvalumab in combination with gemcitabine plus cisplatin

## Indication

Histologically confirmed unresectable, locally advanced, or metastatic adenocarcinoma of the biliary tract, including intrahepatic or extrahepatic cholangiocarcinoma and gallbladder carcinoma based on TOPAZ-1 trial

## Regimen details`

Durvalumab (1500mg) on day 1 of each cycle, in combination with gemcitabine (1000mg/m<sup>2</sup>) and cisplatin (25mg/m<sup>2</sup>), which were administered on days 1 and 8 of each cycle. After completion of gemcitabine and cisplatin, 1500mg of durvalumab monotherapy was administered once every 4 weeks until clinical or imaging disease progression or until unacceptable toxicity, withdrawal of consent

Table 1 – Treatment regimen details

DRUG	DOSE	DILUENT	ROUTE	FREQUENCY/DURATION
<b>Durvalumab</b>	1500mg (if body weight < 30 kg, dose at 20 mg/kg IV)	100mL Sodium Chloride 0.9% Administer the drug solution over 60 minutes using a volumetric pump through an in-line 0.2µm or 1.2µm polyethersulfone or 0.2µm positively charged nylon filter	intravenous infusion over 1 hour	Day 1
		1 litre 0.9% sodium chloride + 20mmol potassium chloride + 10mmol magnesium sulphate	intravenous infusion over 1 hour	Day 1, 8
<b>Cisplatin</b>	25mg/m <sup>2</sup>	500ml 0.9% sodium chloride	intravenous infusion over 1 hour	Day 1, 8
<b>Gemcitabine</b>	1000mg/m <sup>2</sup>	250ml 0.9% sodium chloride	intravenous infusion over 1 hour	Day 1, 8
<b>After 8 cycles of the above</b>				
<b>Durvalumab</b>	1500mg (if body weight < 30 kg, dose at 20 mg/kg IV)	100mL Sodium Chloride 0.9% Administer the drug solution over 60 minutes using a volumetric pump through an in-line 0.2µm or 1.2µm polyethersulfone or 0.2µm positively charged nylon filter	intravenous infusion over 1 hour	Every 4 weeks

## Cycle frequency

### Cycles 1-8 in combination with chemotherapy.

Treatment on day 1 and day 8 of each 21 day cycle.

### Cycle 9+ as a single agent Durvalumab

Each cycle is 28 days.

## Number of cycles

8 cycles of Durvalumab + combination chemotherapy, to be followed by 4 weekly Durvalumab until disease progression or unacceptable toxicity.

## Administration

Intravenous infusion as stated above.

Durvalumab: Administer the drug solution over 60 minutes using a volumetric pump through an in-line 0.2µm or 1.2µm polyethersulfone or 0.2µm positively charged nylon filter

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## Pre-medication

As per anti-emetic guideline

## Emetogenicity – consult anti-emetic policy for full details

High Risk (Category A)

## Additional supportive medication

None Specific

## Investigations – pre first cycle

Table 2 - Standard Investigations prior to first cycle

Investigation	Validity period
FBC	14 days
U+E (including creatinine)	14 days
LFT (including AST)	14 days
TFTs	14 days
Cortisol	Baseline
LH/FSH	Baseline
Testosterone	Baseline

## Investigations –pre subsequent cycles

FBC, U+E (including creatinine), LFT (including AST), TFTs

## Standard limits for administration to go ahead

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

## Table 3 – Standard test result limits for each administration to go ahead and Dose modifications.

Day 1:

Neutrophils  $\geq 1$

Platelets  $\geq 100$

Creatinine clearance  $\geq 50$

Bilirubin  $\leq 1.5 \times$  ULN

ALT  $< 3 \times$  ULN

Day 8:

Neutrophils		Platelets	Gemcitabine dose	Cisplatin dose
$\geq 1$	And	$>100$	100%	100%
0.5-1	Or	50-100	75%	100%
$< 0.5$	Or	$<50$	Omit	omit

If treatment with gemcitabine and/or cisplatin are discontinued before completion of cycle 8 due to treatment related toxicity, then treatment with durvalumab may continue. In this case, durvalumab should be administered 4-weekly.

**For Durvalumab:** No dose reductions are recommended.

**Pneumonitis:** Grade 2 Withhold therapy, resume when complete or partial resolution occurs (Grade  $<1$ ) after corticosteroid taper. Permanently discontinue if no complete or partial resolution within 12 weeks of initiating steroids or inability to reduce prednisone  $<$  or equal 10 mg/day.

**Colitis:** Grade 2 or 3: Withhold therapy; resume when complete or partial resolution occurs (Grade  $<1$ ) after corticosteroid taper. Permanently discontinue if no complete or partial resolution within 12 weeks of initiating steroids or inability to reduce prednisone  $<$  or equal 10 mg/day. Grade 4: Permanently discontinue.

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**Hepatitis with no tumour involvement of the liver:** AST or ALT increases to >3 and <8x ULN or total bilirubin increases to >1.5 and <3x ULN: Withhold therapy; resume when complete or partial resolution occurs (Grade<1) after corticosteroid taper. Permanently discontinue if no complete or partial resolution within 12 weeks of initiating steroids or inability to reduce prednisone < or equal 10 mg/day. AST or ALT increases to >8x ULN or total bilirubin increases to >3x ULN: Permanently discontinue.

**Hepatitis with tumour involvement of the liver:** Refer to consultant.

**Myocarditis: Grade2, 3, 4:** Permanently discontinue durvalumab

#### **Renal Impairment:**

Mild to moderate (CrCl >30 mL/min): No dosage adjustment of durvalumab necessary

Severe (CrCl <30 mL/min): Pharmacokinetics unknown.

#### **Infusion-Related Reactions:**

Grade1 or 2: Interrupt or slow infusion rate

Grade 3 or 4: Permanently discontinue.

#### **Adverse Effects**

Anaemia

Nausea

Constipation

Neutropenia

Immune mediated adverse events

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#### **References**

1. Durvalumab with gemcitabine and cisplatin for treating unresectable or advanced biliary tract cancer [ID4031] - <https://www.nice.org.uk/guidance/indevelopment/gid-ta10920> (accessed 11/12/23)
2. Durvalumab plus Gemcitabine and Cisplatin in Advanced Biliary Tract Cancer. Published June 1, 2022 NEJM Evid 2022;1(8)

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