



# <u>Atezolizumab 840mg Monotherapy – 14 Day</u>

#### **INDICATIONS FOR USE:**

INDICATION	ICD10	Regimen Code	Reimbursement Status
Treatment of adult patients with locally advanced or metastatic non-	C34	00592a	ODMS
small cell lung cancer (NSCLC) after prior chemotherapy.			01/03/2019
Treatment of adult patients with locally advanced or metastatic	C67	00592b	ODMS
urothelial carcinoma (mUC) after prior platinum-containing			01/03/2021
chemotherapy.			
Treatment of adult patients with locally advanced or metastatic	C67	00592c	ODMS
urothelial carcinoma (UC) who are considered cisplatin ineligible and			01/07/2021
whose tumours have a PD-L1 expression ≥5%.			
As monotherapy for the first-line treatment of adult patients with	C34	00592d	ODMS
metastatic non-small cell lung cancer (NSCLC) whose tumours have a			01/10/2021
PDL1 expression ≥ 50% tumour cells (TC) or ≥ 10% tumour-infiltrating			
immune cells (IC) and who do not have EGFR mutant or ALK-positive			
NSCLC.			

#### TREATMENT:

The starting dose of the drugs detailed below may be adjusted downward by the prescribing clinician, using their independent medical judgement, to consider each patients individual clinical circumstances.

Atezolizumab is administered once every 14 days until disease progression or unacceptable toxicity develops.

Facilities to treat anaphylaxis MUST be present when atezolizumab is administered.

Day	Drug	Dose	Route	Diluent & Rate	Cycle
1	Atezolizumab	840mg	IV infusion	250ml 0.9% NaCl over 60 minutes <sup>a</sup>	Every 14 days

<sup>&</sup>lt;sup>a</sup>Initial dose must be given over 60 minutes; subsequent doses may be given over 30 minutes if tolerated.

### **ELIGIBILITY:**

- Indications as above
- ECOG 0-1
- Adequate haematological and organ function
- Non Small Cell Lung Cancer: Second Line
  - o Locally advanced or metastatic (Stage IIIB, Stage IV, or recurrent) NSCLC.
  - o Prior treatment with ≥1 platinum based combination chemotherapy regimen.
  - Patients with EGFR mutations or an ALK fusion oncogene are required to have received previous tyrosine kinase inhibitor therapy.

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If a planned dose of atezolizumab is missed, it should be administered as soon as possible; it is recommended not to wait until the next planned dose. The schedule of administration must be adjusted to maintain a 2-week interval between doses.





#### Non Small Cell Lung Cancer: First Line

- Histologically or cytologically confirmed stage IV non-squamous or squamous NSCLC with no sensitizing EGFR mutations or ALK translocations.
- o No prior treatment for Stage IV non-squamous or squamous NSCLC.
- Confirmation of PD-L1 tumour proportion score of  $\geq$  50% or PD-L1 stained tumour-infiltrating immune cells (IC) tumour area (IC  $\geq$  10%) by a validated test.
- Patients who have received prior neo-adjuvant, adjuvant chemotherapy or chemoradiotherapy for non-metastatic disease must have experienced a treatment-free interval of at least 6 months since the last chemotherapy or chemoradiotherapy cycle.

#### • Urothelial carcinoma: Second Line

- Locally advanced or metastatic urothelial carcinoma that shows predominantly transitional cell features on histologic testing.
- Prior treatment with ≥1 platinum based combination chemotherapy regimen.

#### Urothelial carcinoma: First Line

- Locally advanced or metastatic urothelial carcinoma that shows predominantly transitional cell features on histologic testing.
- o PD-L1 expression ≥5% as demonstrated by a validated test method.

#### **CAUTION:**

Use with caution in:

Patients with clinically significant autoimmune disease

#### **EXCLUSIONS:**

- Hypersensitivity to atezolizumab or any of the excipients.
- Symptomatic central nervous system (CNS) metastases.
- Any medical condition that requires immunosuppressive doses of systemic corticosteroids or other immunosuppressive medication(s) (defined as >10mg prednisolone/daily (or steroid equivalent, excluding inhaled or topical steroids).
- Symptomatic interstitial lung disease.
- Any active clinically significant infection requiring therapy.
- Prior treatment with, anti-CTLA4, anti-PD-1, or anti-PD-L1 therapeutic antibody or pathway-targeting agents.

## Non Small Cell Lung Cancer: First Line

Known sensitizing mutation in the EGFR gene or ALK fusion oncogene

#### PRESCRIPTIVE AUTHORITY:

The treatment plan must be initiated by a Consultant Medical Oncologist

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#### **TESTS:**

#### **Baseline tests:**

- FBC, renal and liver profile
- Glucose
- TFTs
- Virology Screen: Hepatitis B (HBsAg, HBcoreAb) and Hepatitis C
- 1L Urothelial Cancer and 1L Non Small Cell Lung Cancer: PD-L1 expression using a validated test method

#### Regular tests:

- FBC, renal, liver profile and glucose prior to each cycle
- TFTs every 3 to 6 weeks

#### **Disease monitoring:**

Disease monitoring should be in line with the patient's treatment plan and any other test/s as directed by the supervising Consultant.

### **DOSE MODIFICATIONS:**

- Any dose modification should be discussed with a Consultant.
- Dose reduction of atezolizumab is not recommended.
- Guidelines for withholding of doses or permanent discontinuation are described below in Table 1.

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Table 1: Guidelines for withholding or discontinuation of atezolizumab

Immune related adverse	Olding or discontinuation of atezolizumab  Treatment modification		
reaction			
Pneumonitis Grade 2	Withhold atezolizumab. Treatment may be resumed when the event improves to Grade 0 or Grade 1 within 12 weeks, and corticosteroids have been reduced to $\leq$ 10 mg prednisolone or equivalent per day.		
Grade 3 or 4	Permanently discontinue atezolizumab.		
Hepatitis Grade 2: (ALT or AST > 3 to 5 x upper limit of normal [ULN] or blood bilirubin > 1.5 to 3 x ULN)	Withhold atezolizumab. Treatment may be resumed when the event improves to Grade 0 or Grade 1 within 12 weeks and corticosteroids have been reduced to $\leq$ 10 mg prednisolone or equivalent per day.		
Grade 3 or 4: (ALT or AST > 5 x ULN or blood bilirubin > 3 x ULN)	Permanently discontinue atezolizumab.		
Colitis  Grade 2 or 3 Diarrhoea (increase of ≥ 4 stools/day over baseline) or Symptomatic Colitis	Withhold atezolizumab. Treatment may be resumed when the event improves to Grade 0 or Grade 1 within 12 weeks and corticosteroids have been reduced to ≤ 10 mg prednisolone equivalent per day.		
Grade 4 Diarrhoea or Colitis (life threatening; urgent intervention indicated)	Permanently discontinue atezolizumab.		
Hypothyroidism or hyperthyroidism Symptomatic	Withhold atezolizumab. Hypothyroidism: Treatment may be resumed when symptoms are controlled by thyroid replacement therapy and TSH levels are decreasing.  Hyperthyroidism: Treatment may be resumed when symptoms are controlled by antithyroid medicinal product and thyroid function is improving.		
Adrenal insufficiency Symptomatic	Withhold atezolizumab. Treatment may be resumed when the symptoms improve to Grade 0 or Grade 1 within 12 weeks and corticosteroids have been reduced to ≤ 10 mg prednisolone or equivalent per day and patient is stable on replacement therapy		
Hypophysitis Grade 2 or 3	Withhold atezolizumab. Treatment may be resumed when the symptoms improve to Grade 0 or Grade 1 within 12 weeks and corticosteroids have been reduced to ≤ 10 mg prednisolone or equivalent per day and patient is stable on replacement therapy.		
Grade 4	Permanently discontinue atezolizumab.		
Type 1 diabetes mellitus Grade 3 or 4 hyperglycaemia (fasting glucose >250 mg/dL or 13.9 mmol/L)	Withhold atezolizumab Treatment may be resumed when metabolic control is achieved on insulin replacement therapy.		
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Immune related adverse	Treatment modification
reaction	
Infusion-related reactions	
Grade 1 or 2	Reduce infusion rate or interrupt. Treatment may be resumed when the event is
	resolved.
Grade 3 or 4	Permanently discontinue atezolizumab.
Rash / Severe cutaneous	
adverse reaction	
Grade 3 or suspected	Withhold atezolizumab. Treatment may be resumed when the symptoms improve to
Stevens-Johnson syndrome	Grade 0 or Grade 1 within 12 weeks and corticosteroids have reduced to ≤ 10 mg
(SJS) or toxic epidermal	prednisolone or equivalent per day.
necrolysis (TEN) <sup>1</sup>	
Grade 4 or confirmed	Permanently discontinue atezolizumab.
Stevens-Johnson syndrome	Termanently discontinue decisional
(SJS) or toxic epidermal	
necrolysis (TEN) <sup>1</sup>	
Myasthenic syndrome/	
myasthenia gravis,	
Guillain-Barré syndrome	
and Meningoencephalitis	
All grades	Permanently discontinue atezolizumab.
Pancreatitis	
Grade 3 or 4 serum	Withhold Atezolizumab. Treatment may be resumed when serum amylase and lipase
amylase or lipase levels	levels improve to Grade 0 or Grade 1 within 12 weeks, or symptoms of pancreatitis
increased (> 2 x ULN) or	have resolved, and corticosteroids have been reduced to ≤ 10 mg prednisolone or
Grade 2 or 3 pancreatitis	equivalent per day.
Grade 4 or any grade of	Permanently discontinue atezolizumab.
recurrent pancreatitis	
Myocarditis	
Grade 2 or above	Permanently discontinue atezolizumab.
Nephritis	Withhold atezolizumab. Treatment may be resumed when the symptoms improve to
Grade 2:	Grade 0 or Grade 1 within 12 weeks and corticosteroids have been reduced to ≤ 10
(creatinine level > 1.5 to 3.0	mg prednisone or equivalent per day.
x baseline or > 1.5 to 3.0 x	
ULN)	
Grade 3 or 4:	Permanently discontinue atezolizumab.
(creatinine level > 3.0 x	
baseline or > 3.0 x ULN)	
Myositis	
Grade 2 or 3	Withhold atezolizumab.
Grade 4 or recurrent Grade	Permanently discontinue atezolizumab.
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Immune related adverse	Treatment modification	
reaction		
Other immune-related adverse reactions		
Grade 2 or Grade 3	Withhold until adverse reactions recovers to Grade 0-1 within 12 weeks, and corticosteroids have been reduced to ≤ 10mg prednisolone or equivalent per day.	
Grade 4 or recurrent Grade	Permanently discontinue atezolizumab (except endocrinopathies controlled with	
3	replacement hormones).	
Note: Toxicity grades are in a	ccordance with National Cancer Institute Common Terminology Criteria for Adverse	
Event Version 4.0 (NCI-CTCAE v.4.).		
<sup>1</sup> Regardless of severity		

#### **Renal and Hepatic Impairment:**

Table 2: Dose modification of atezolizumab in renal and hepatic impairment

Renal Impairment		Hepatic Imp	airment
Mild/Moderate	No dose adjustment required	Mild/Moderate	No dose adjustment required
Severe	Data too limited to draw conclusions	Severe	Has not been studied

#### SUPPORTIVE CARE:

EMETOGENIC POTENTIAL: Minimal (Refer to local policy).

PREMEDICATIONS: Not usually required

**OTHER SUPPORTIVE CARE:** Not usually required

#### **ADVERSE EFFECTS / REGIMEN SPECIFIC COMPLICATIONS:**

The adverse effects listed are not exhaustive. Please refer to the relevant Summary of Product Characteristics for full details.

- Immune-mediated adverse reactions: Most immune-related adverse reactions occurring during treatment with atezolizumab were reversible with interruptions of atezolizumab and initiation of corticosteroids and/or supportive care. Immune-related adverse reactions affecting more than one body system have been observed. Immune-related adverse reactions with atezolizumab may occur after the last dose of atezolizumab. For suspected immune-related adverse reactions, thorough evaluation to confirm aetiology or exclude other causes should be performed. Based on the severity of the adverse reaction, atezolizumab should be withheld and corticosteroids administered. Upon improvement to Grade ≤ 1, corticosteroid should be tapered over ≥ 1 month. Based on limited data from clinical studies in patients whose immune-related adverse reactions could not be controlled with systemic corticosteroid use, administration of other systemic immunosuppressants may be considered. Atezolizumab must be permanently discontinued for any Grade 3 immune-related adverse reaction that recurs and for any Grade 4 immune-related adverse reactions, except for endocrinopathies that are controlled with replacement hormones.
- Infusion related reactions: have been observed in clinical trials with atezolizumab. The rate of infusion should be reduced or treatment should be interrupted in patients with Grade 1 or 2 infusion related

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reactions. Atezolizumab should be permanently discontinued in patients with Grade 3 or 4 infusion related reactions. Patients with Grade 1 or 2 infusion-related reactions may continue to receive atezolizumab with close monitoring; premedication with antipyretic and antihistamines may be considered.

• Immune-related severe cutaneous adverse reactions (SCARs): Immune-related severe cutaneous adverse reactions (SCARs), including cases of Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis (TEN), have been reported in patients treated with atezolizumab. Patients should be monitored for suspected severe skin reactions and other causes should be excluded. In case a SCAR is suspected, atezolizumab should be withheld and patients should be referred to a specialist in SCARs for diagnosis and treatment. If SJS or TEN is confirmed, and for any grade 4 rash/SCAR, treatment with atezolizumab should be permanently discontinued. Caution is recommended when considering the use of atezolizumab in patients with previous history of a severe or life-threatening SCAR with other immune-stimulatory cancer medicines.

### **DRUG INTERACTIONS:**

- No formal pharmacokinetic drug interaction studies have been conducted with atezolizumab. Since atezolizumab is cleared from the circulation through catabolism, no metabolic drug-drug interactions are expected.
- The use of systemic corticosteroids or immunosuppressants before starting atezolizumab should be avoided because of their potential interference with the pharmacodynamic activity and efficacy of atezolizumab. However, systemic corticosteroids or other immunosuppressants can be used to treat immune-related adverse reactions after starting atezolizumab.
- Current drug interaction databases should be consulted for more information.

#### **COMPANY SUPPORT RESOURCES/Useful Links:**

Please note that this is for information only and does not constitute endorsement by the NCCP

#### **Patient Alert Card**

https://www.hpra.ie/img/uploaded/swedocuments/53ca611d-f634-4438-83db-4da11cebd0c6.pdf

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Comments and feedback welcome at oncologydrugs@cancercontrol.ie.

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