



Atezolizumab

Indication

Treatment of locally advanced or metastatic non small cell lung cancer (NSCLC) in adults who have had chemotherapy (and targeted treatment if they have an EGFR or ALK positive tumour).

(NICE TA520)

ICD-10 codes

Codes pre fixed with C34

Regimen details

Day	Drug	Dose	Route
1	Atezolizumab	1200mg	IV infusion

Cycle frequency

21 days

Number of cycles

Continued until disease progression or unacceptable toxicity to a maximum of 2 years uninterrupted treatment.

Administration

Atezolizumab is administered in 250mL sodium chloride 0.9% over 60 minutes. If the initial infusion is well tolerated, subsequent infusions may be administered over 30 minutes.

Patients should be monitored (blood pressure, pulse and temperature) every 30 minutes during the infusion for infusion related reactions. For grade 1-2 infusion related reactions, decrease the infusion rate and closely monitor or temporarily interrupt treatment. Premedication with paracetamol and chlorphenamine should be used for further doses and patient should be closely monitored. For grade 3-4 infusion related reactions discontinue treatment.

Pre-medication

Nil required unless infusion related reactions.

Emetogenicity

This regimen has low emetogenic potential.

Additional supportive medication

Nil routinely required.

Extravasation

Atezolizumab is neutral (Group 1)

Version 1 Review date May 2020 Page 1 of 5



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Investigations - pre first cycle

Investigation	Validity period
FBC	14 days
U+Es (including creatinine)	14 days
LFTs	14 days
Thyroid function	14 days
Calcium	14 days
Glucose	14 days
Cortisol	14 days

Investigations – pre subsequent cycles

Investigation	Validity period (or as per local policy)
FBC	7 days
U+E (including creatinine)	7 days
LFT	7 days
Calcium	As clinically indicated
Thyroid function*	7 days
Glucose*	7 days
Cortisol*	7 days

^{*} every cycle for the first 12 weeks, then every other cycle.

Standard limits for administration to go ahead

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

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Investigation	Limit	
Neutrophil count	≥ 1.0 x 10 ⁹ /L	
Platelets	\geq 75 x 10 9 /L	
White Cell Count	>2.0 x 10 ⁹ /L	
Creatinine Clearance (CrCl)	≥ 30mL/min	
Bilirubin	< 1.5 x ULN	
ALT/AST	< 2.5 x ULN	

Dose modifications

Dose reductions are not recommended. Doses should be delayed until an adverse reaction resolves to ≤ grade 1.

Haematological toxicity

Discuss with the consultant if: WBC $<2.0 \times 10^9/L$ Neutrophils $<1.0 \times 10^9/L$ Platelets $<75 \times 10^9/L$

Renal impairment

No modifications required for mild to moderate renal impairment. There are no recommendations for patients with severe renal impairment.

• Hepatic impairment

No modifications required for mild hepatic impairment. At ezolizumab has not been studies in moderate or severe hepatic impairment.

Version 1 Review date May 2020 Page 2 of 5





Other toxicities

For suspected immune related adverse events, at ezolizumab should be withheld and corticosteroids administered. Once symptoms resolved to \leq Grade 1 the corticosteroid dose should be tapered over 1 month.

Toxicity	Definition	Dose adjustment
Pneumonitis	Grade 2	Withhold treatment
		Resume once ≤ Grade 1 (within 12 weeks) and when
		corticosteroids reduced to ≤10mg/day prednisolone (or
		equivalent)
	Grade 3-4	Permanently discontinue
Hepatitis	Grade 2	Withhold treatment
	Bilirubin 1.5-3 x ULN	Resume once ≤ Grade 1 (within 12 weeks) and when
	and/or	corticosteroids reduced to ≤10mg/day prednisolone (or
	AST/ALT 3-5 x ULN	equivalent)
	Grade 3-4	Permanently discontinue
	Bilirubin > 3 x ULN	·
	and/or	
	AST/ALT > 5 x ULN	
Colitis	Grade 2-3 diarrhoea	Withhold treatment
	or	Resume once ≤ Grade 1 (within 12 weeks) and when
	Symptomatic colitis	corticosteroids reduced to ≤10mg/day prednisolone (or
		equivalent)
	Grade 4 diarrhoea or colitis	Permanently discontinue
Hypo or	Symptomatic	Hypothyroidism
hyperthyroidism		Withhold treatment
nyperenyroraion.		Treatment may resume once symptoms controlled with
		thyroid replacement and TSH levels reducing.
		Hyperthyroidism
		Withhold treatment
		Treatment may resume once symptoms controlled with
		anti-thyroid medication and thyroid function is improving.
Adrenal insufficiency	Symptomatic	Withhold treatment
Adrena modificiency	Symptomatic	Resume once ≤ Grade 1 (within 12 weeks) and when
		corticosteroids reduced to ≤10mg/day prednisolone (or
		equivalent) and patient is stable on replacement therapy.
Hypophysitis	Grade 2-3	Withhold treatment
Πγρορηγείτιε	Grade 2-3	Resume once ≤ Grade 1 (within 12 weeks) and when
		corticosteroids ≤ 10mg/day prednisolone (or equivalent)
		and patient is stable on replacement therapy.
	Grade 4	Permanently discontinue
Insulin dependent	Grade 3-4 hyperglycaemia	Withhold treatment
diabetes mellitus	Grade 3-4 Hypergrycaerilla	Resume once metabolic control achieved with insulin
ulabetes illellitus		
Rash	Grade 3	therapy. Withhold treatment
1\a511	Grade 5	Resume once ≤ Grade 1 and when corticosteroids reduced
		to ≤ 10mg/day prednisolone (or equivalent)
	Grade 4	
N.A. va atla a valla		Permanently discontinue
Myasthenic	Any grade	Permanently discontinue
syndrome/		
myasthenia		
gravis/Guillain-Barre		

Version 1 Review date May 2020 Page 3 of 5



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Pancreatitis	Grade 2-3 (or Grade 3-4 increase in amylase or lipase)	Withhold treatment Resume once amylase and lipase levels ≤ Grade 1 (within 12 weeks) or where symptoms have resolved and when corticosteroids reduced to ≤10mg/day prednisolone (or equivalent) and patient is stable on replacement therapy.
	Grade 4 or recurrent pancreatitis	Permanently discontinue

<u>Permanently discontinue</u> treatment in patients with the following symptoms:

- Any grade 4 toxicity, except endocrinopathies that are controlled with replacement hormones.
- Any recurrent Grade 3 toxicity.
- Any treatment related toxicity that does not resolve to ≤ Grade 1 within 12 weeks after onset.
- If a corticosteroid dose ≥ 10mg/day prednisolone (or equivalent) is required for toxicity beyond 12 weeks after onset.

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

• Serious side effects

Immune reactions
Interstitial lung disease, pneumonitis
Pancreatitis
Hepatitis
Colitis
Neuropathies
Endocrinopathies

Frequently occurring side effects

Thrombocytopenia
Hypothyroidism, hyperthyroidism
Hypotension
Dyspnoea
Nausea, vomiting
Diarrhoea
Rash
Pruritis
Arthralgia
Fatigue
Infusion related reactions

• Other side effects

Decreased appetite Altered electrolytes Raised transaminases Guillain-Barre syndrome

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

No formal drug interaction studies have been carried out with atezolizumab.

Corticosteroids: 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.

Version 1 Review date May 2020 Page 4 of 5



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Additional comments

The prescriber must discuss the risks of treatment with the patient and they will be issued with the Atezolizumab Patient Alert Card and advised to carry the card at all times.

References

- National Institute for Health and Care Excellence via www.nice.org.uk
- Summary of Product Characteristics Atezolizumab (Roche) accessed 19 April 2018 via www.medicines.org.uk
- Rittmeyer A. et al. Atezolizumab versus docetaxel in patients with previously treated nonsmall-cell lung cancer (OAK): a phase 3, open-label, multicentre randomised controlled trial. 2017. The Lancet. 389: 10066 p255-265

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Version 1 Review date May 2020 Page 5 of 5