

Durvalumab

Indication

Locally advanced (Stage IIIA – IIIC), unresectable non-small-cell lung cancer (NSCLC) in adults whose tumours express PD-L1 on at least 1% of tumour cells and whose disease has not progressed after platinum-based concurrent chemoradiation.

Additional eligibility criteria:

- ECOG Performance status 0 1
- Patient has been re-staged since chemoradiotherapy was completed and does not have any evidence of disease progression or metastatic spread.
- Patient will start first treatment with durvalumab within 42 days of the last active treatment date of chemoradiotherapy.

(NICE TA578)

ICD-10 codes

Codes prefixed with C34

Regimen details

Day	Drug	Dose	Route
1	Durvalumab	10mg/kg	IV infusion

Cycle frequency

Every 14 days

Number of cycles

Until disease progression, unacceptable toxicity or for a maximum of 12 months.

It is recommended to continue treatment for clinically stable patients with initial evidence of disease progression until disease progression is confirmed.

Administration

Durvalumab is administered over 60 minutes, diluted in sodium chloride 0.9% or glucose 5%, to a final concentration of 1-15 mg/mL.

Durvalumab should be administered via an infusion set with an in-line sterile, non-pyrogenic, low protein binding 0.2 or 0.22 micron filter.

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 permanently discontinue treatment.

Emetogenicity

This regimen has low emetogenic potential

Version 1 Review date May 2022 Page 1 of 6



Additional supportive medication

Loperamide if required.

Extravasation

Durvalumab is neutral (Group 1)

Investigations – pre first cycle

Investigation	Validity period (or as per local policy)	
FBC	14 days	
U+E (including creatinine)	14 days	
LFT	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.

Patients should be monitored for up to 5 months after last dose for adverse reactions.

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	$\geq 1.0 \times 10^9 / L$
Platelets	\geq 75 x 10 9 /L
Creatinine Clearance (CrCl)	≥ 30mL/min
Bilirubin	< 1.5 x ULN
ALT/AST	< 3 x ULN

Dose modifications

Dose reductions are not recommended. Doses should be delayed or discontinued based on tolerability.

Haematological toxicity

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

Renal impairment

No dose modifications required in mild-moderate renal impairment ($CrCl \ge 30ml/min$). There is limited data of use in patients with severe renal impairment - use with caution.

Version 1 Review date May 2022 Page 2 of 6



Hepatic impairment

No modifications required for mild hepatic impairment (bilirubin $< 1.0 \times ULN$, ALT/AST $< 3 \times ULN$). See below for management of moderate – severe hepatitis.

Other toxicities

Patients must be advised to seek specialist advice if they experience significant side effects as these can worsen rapidly.

Immune reactions may occur during or after completion of treatment.

Please refer to local guidelines for the management of immunotherapy toxicities.

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

Toxicity	Definition	Dose adjustment	Corticosteroid treatment
Pneumonitis	Grade 2	Withhold	Prednisolone 1- 2mg/kg/day followed by taper
	Grade 3-4	Permanently discontinue	Prednisolone 1- 4mg/kg/day followed by taper
Hepatitis	Grade 2 Bilirubin 1.5-3 x ULN and/or AST/ALT 3-5 x ULN	Withhold	Prednisolone 1- 2mg/kg/day followed by taper
	Grade 3 Bilirubin 3-5 x ULN or AST/ALT > 5-8 x ULN	Withhold	Prednisolone 1- 2mg/kg/day followed by taper
	Grade 3-4 Bilirubin > 5 x ULN or AST/ALT > 8 x ULN	Permanently discontinue	Prednisolone 1- 2mg/kg/day followed by taper
	Concurrent bilirubin > 2 x ULN and AST/ALT 3 x ULN and with no other cause	Permanently discontinue	Prednisolone 1- 2mg/kg/day followed by taper
Colitis or diarrhoea	Grade 2	Withhold	Prednisolone 1- 2mg/kg/day followed by taper
	Grade 3-4	Permanently discontinue	Prednisolone 1- 2mg/kg/day followed by taper

Version 1 Review date May 2022 Page 3 of 6



Hypothyroidism	Grade 2-4	No change	Thyroid replacement as clinically indicated
Hyperthyroidism	Grade 2-4	Withhold until clinically stable	Symptomatic treatment
Adrenal insufficiency Hypophysitis or Hypopituitarism	Grade 2-4	Withhold until clinically stable	Prednisolone 1-2 mg/kg/day followed by a taper and hormone replacement as clinically indicated
Insulin dependent diabetes mellitus	Grade 2-4	Withhold until clinically stable	Treat with insulin as clinically indicated.
Nephritis	Grade 2 (creatinine 1.5-3 x ULN or baseline)	Withhold	Prednisolone 1- 2mg/kg/day followed by taper
	Grade 3 (creatinine 3-6 x ULN or 3 x baseline) Grade 4 (creatinine 6 x ULN)	Permanently discontinue	
Rash	Grade 2 (> 7 days) or Grade 3 Grade 4	Withhold Permanently discontinue	Prednisolone 1- 2mg/kg/day followed by taper
Myocarditis	Grade 2 Any Grade with positive biopsy Grade 3-4	Withhold Permanently discontinue	Prednisolone 2- 4mg/kg/day followed by taper
Myositis/ polymyositis	Grade 2-3 Grade 4	Withhold Permanently discontinue	Prednisolone 1- 4mg/kg/day followed by taper
Infection	Grade 3-4	Withhold until clinically stable	
Other immune reactions	Grade 3 Grade 4	Withhold Permanently discontinue	Prednisolone 1- 4mg/kg/day followed by taper

If no improvement within 3 to 5 days despite corticosteroids, start additional immunosuppressive therapy as per local policy. Once resolved to Grade 0, corticosteroid taper should be initiated and continued over at least 1 month, after which durvalumab may be resumed based on clinical judgment.

Permanently discontinue treatment if adverse reaction does not resolve to ≤ Grade 1 within 30 days.

For non-immune-mediated Grade 2-3 adverse reactions, consider withholding treatment until ≤ Grade 1 or baseline. For any Grade 4 adverse reactions discontinue treatment.

Version 1 Review date May 2022 Page 4 of 6



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

• Serious side effects

Colitis

Hepatitis

Peripheral neuropathy

Endocrinopathies

Nephritis

Interstitial lung disease/pneumonitis

Pancreatitis

Myocarditis

• Frequently occurring side effects

Infusion-related reactions

Pyrexia

Pruritus

Rash

Nausea and vomiting

Diarrhoea

Abdominal pain

Raised liver function tests

Fatigue

Decreased appetite

Hypo / Hyperthyroidism

Abdominal pain

Uveitis / Dry eyes

Myelosuppression

Myalgia / Myositis

• Other side effects

Adrenal insufficiency
Type 1 diabetes mellitus
Hypopituitarism
Hyperglycaemia
Tumour pain

Raised transaminases

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

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

Additional comments

The prescriber must discuss the risks of durvalumab therapy with the patient and provide the Patient Alert Card.

Contraception: Adequate methods of contraception should be used during therapy and for 8 weeks after last dose.

Version 1 Review date May 2022 Page 5 of 6



References

- National Institute for Health and Care Excellence TA 578 accessed 1 May 2019 via www.nice.org.uk
- Summary of Product Characteristics Durvalumab (AstraZeneca) accessed 3 April 2019 via www.medicines.org.uk
- Antonia SJ et al. Durvalumab after Chemoradiotherapy in Stage III Non–Small-Cell Lung Cancer. N Engl J Med 2017; 377:1919-1929 Antonia SJ et al. Overall survival with Durvalumab after Chemoradiotherapy in Stage III Non–Small-Cell Lung Cancer. N Engl J Med 2018; 379:2342-2350

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Version 1 Review date May 2022 Page 6 of 6