



**MEPOLIZUMAB (Nucala®) PROTOCOL FOR THE TREATMENT OF
SEVERE REFRACTORY EOSINOPHILIC ASTHMA**

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INDICATION FOR USE: ^{1, 2}

TREATMENT	HSE APPROVED INDICATION	ICD10	Protocol Code
Mepolizumab (Nucala®)	Mepolizumab (Nucala®) is indicated as an add-on treatment for severe refractory eosinophilic asthma in adults over 18 years of age.	J82.83	RESP001

TREATMENT: ¹

DRUG	DOSE	ROUTE	CYCLE	DURATION OF THERAPY
Mepolizumab	100 mg	Subcutaneous Injection	Every 4 weeks	Long-term treatment
<p>The need for continued therapy should be considered at least on an annual basis as determined by physician assessment of the patient's disease severity and level of control of exacerbations.</p> <p>Treatment is initiated within hospital, however patients should be transferred to self-administration when their supervising consultant deems it appropriate.</p>				

ELIGIBILITY: ²

- Confirmed diagnosis of Severe Refractory Eosinophilic Asthma by a respiratory physician, specialising in severe asthma.
- Patient has been fully adherent to maintenance therapy assessed using the following criteria:
 - Adherence to maintenance therapy
 - Inhaler technique assessed AND has the patient been educated on inhaler use.
 - Compliance assessed by 3 consecutive monthly visits to clinical specialist nurse with adherence advice, PEFr diary and reported asthma outcomes.

OR if performed

 - Patient is adherent with prescribed therapy confirmed by INCA device over 3 months.
- Blood eosinophil count:
 - Greater or equal to 300cells/microlitre (0.3×10^9 per Litre) in the previous 12 months

OR

 - In patients on longterm maintenance oral corticosteroids (OCS) with an eosinophil count less than 300cells/microlitre (0.3×10^9 per Litre); a pre-OCS eosinophil level should be used to confirm eosinophilic phenotype. (*Consensus recommendation of Severe Asthma Advisory Group*)
- If exacerbation rate:
 - 2 or more exacerbations requiring systemic corticosteroids in the previous 12months

OR

 - Continuous OCS (greater or equal to 5mg prednisolone daily or equivalent) over the previous 6 months
- The company provides mepolizumab at the commercial in confidence price agreed with the HSE.

NOTE: In clinical studies for anti-IL5 therapies the extent to which exacerbation rates were reduced increased in patients with higher blood eosinophil levels and with greater exacerbation history.

Protocol: RESP - Mepolizumab	Published: October 2023 Review: October 2025	Version number: 7
AHDMP Protocol Code: RESP001	Contributor: National Clinical Programme for Respiratory Medicine	Page 2 of 5
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CONTRAINDICATIONS: ¹

- Hypersensitivity to mepolizumab or to any of the excipients in the formulation.

EXCLUSIONS FOR FUNDING:

- Patients less than 18 years of age
- Patients treated with omalizumab (Xolair®) within the past year
- Patients who do not meet the eligibility criteria above

STOPPING CRITERIA: ²

Response to therapy should be reviewed by the treating physician at 3 monthly intervals. A definitive decision to continue therapy should be made at 12 months of treatment based on disease severity and level of exacerbation control:

- Stop anti-IL5 therapy if asthma has not responded adequately to treatment.
- An adequate response is defined as:
 - A clinically meaningful reduction in the number of asthma exacerbations requiring systemic corticosteroids or hospitalisation.
 - OR**
 - A clinically significant reduction in continuous OCS use while maintaining improved asthma control.

USE WITH CAUTION:

Refer to SmPC for up to date information

TESTS:

Baseline measurements / tests:

- Inhaler technique and compliance
- Blood eosinophil count
- Number of exacerbations in previous 12 months
- Continuous OCS use in previous 6 months
- Smoking status
- IgE

Regular measurements / tests:

- Inhaler technique and compliance
- Smoking status
- Number of GP visits
- Number of exacerbations requiring hospitalisation
- Number of exacerbations requiring hospital visit but not admission

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.

Protocol: RESP - Mepolizumab	Published: October 2023 Review: October 2025	Version number: 7
AHDMP Protocol Code: RESP001	Contributor: National Clinical Programme for Respiratory Medicine	Page 3 of 5
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DOSE MODIFICATIONS: ¹

Dose adjustments are not recommended

Renal and Hepatic Impairment:

No dose adjustment is required for patients with renal or hepatic impairment

SUPPORTIVE CARE: ¹

Pre-medications: None

Take home medications: None

ADVERSE EFFECTS / REGIMEN SPECIFIC COMPLICATIONS: ¹

The adverse effects listed are not exhaustive. Please refer to the relevant Summary of Product Characteristics for full details. **This medicinal product is subject to additional monitoring. Healthcare professionals are asked to report any suspected adverse reactions.**

Headache: was the most common reported adverse reaction during treatment for severe eosinophilic asthma (20%)

Injection site reactions: was the second most commonly reported adverse effect (8 %)

Back pain: the third most common adverse effect (6%).

Systemic non-allergic administration related reactions: the most common manifestations of systemic non-allergic administration related reactions in the severe eosinophilic asthma studies were rash, flushing and myalgia; these manifestations were reported infrequently and in less than 1 % of patients receiving mepolizumab 100 mg subcutaneously.

OTHER INFORMATION:

- Mepolizumab should not be used to treat acute asthma exacerbations.

Outcome Monitoring & Reporting:

- The clinical trials demonstrated a reduction in clinically significant exacerbations of asthma. In order to measure this in the real world setting the collection of these outcomes is required.
- A data collection form has been provided for assessment of these outcomes at baseline and at each injection visit. HSE funding is dependent on return of these outcomes.
- For doses accessed via the High Tech Hub (HTH), there is no requirement to submit a claim form or outcome data to AHDMP.

Self-administration

- The initial doses of mepolizumab should be administered under the supervision of a trained health care professional in a hospital setting. The patient should be instructed in the subcutaneous injection technique and on how to self-administer during this time.
- After proper training in the subcutaneous injection technique patients should be considered for self-administer mepolizumab with medical follow-up as necessary.
- Where self-administration is deemed appropriate, all prescriptions for community dispensing must be issued through the High Tech Hub (HTH).

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AHDMP Protocol Code: RESP001	Contributor: National Clinical Programme for Respiratory Medicine	Page 4 of 5
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- Where self-administration is deemed inappropriate, the patient details and reason to justify continued hospital administration of mepolizumab should be e-mailed to AHDMP@hse.ie to ensure that hospital reimbursement is continued.

DRUG INTERACTIONS:

Current drug interaction databases should be consulted for more information.

ATC CODE:

Mepolizumab R03DX09

REIMBURSEMENT CATEGORY:

Hospital Reimbursement via Rosetta / Community supply reimbursed by the PCRS

PRESCRIPTIVE AUTHORITY:

The treatment plan must be initiated by a Consultant Respiratory physician, within an asthma centre who specialises in severe asthma as outlined by the *Briefing Paper: National Severe Asthma Network 2015 (Sub-group of National Clinical Programme for Respiratory Medicine)*.²

REFERENCES:

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- Briefing Paper: National Severe Asthma Network 2015 (Sub-group of National Clinical Programme for Respiratory Medicine)*.
- Pavord ID, Korn S, Howarth P, et al. Mepolizumab for severe eosinophilic asthma (DREAM): a multicentre, double-blind, placebo-controlled trial. *Lancet* 2012; 380: 651-9.
- Ortega HG, Liu MC, Pavord ID, et al. Mepolizumab treatment in patients with severe eosinophilic asthma. *N Engl J Med* 2014; 371: 1198-207.
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Protocol: RESP - Mepolizumab	Published: October 2023 Review: October 2025	Version number: 7
AHDMP Protocol Code: RESP001	Contributor: National Clinical Programme for Respiratory Medicine	Page 5 of 5
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