The Effect of Mepolizumab on Reduction in Oral Corticosteroid Use and Durability of Effect

Mepolizumab (100mg SC Q4W) is approved for use in patients aged 6 years and older with severe eosinophilic asthma¹ and has been shown to reduce the need for daily OCS use compared with placebo.²

SIRIUS: Placebo-controlled, Phase III, oral corticosteroid (OCS) reduction study²

Evaluated the effects of mepolizumab as add-on therapy in reducing the use of oral corticosteroids while maintaining asthma control



SIRIUS Primary endpoint: Weeks 20–24 percentage reduction of OCS dose while maintaining asthma control²

Patients receiving mepolizumab achieved significantly greater reductions in maintenance OCS doses from baseline during Weeks 20–24, while maintaining asthma control, compared with placebo.



COSMOS and COSMEX: Open-label extension studies evaluating, in a post hoc analysis, the durability of OCS reduction in patients receiving mepolizumab²⁻⁴

COSMOS³: 52-week study included patients completing SIRIUS (n = 126)

COSMEX^{4,†}: Up to 172week study included patients treated in COSMOS who had lifethreatening or seriously debilitating asthma (n = 73)



* 38 of 73 patients had a \leq 12-week gap in treatment between COSMOS and COSMEX.

† The COSMEX study enrolled a subset of patients from COSMOS with a history of life-threatening or seriously debilitating asthma who had previously demonstrated clinical benefit from mepolizumabtreatment.

Safety: Most frequently reported AEs ($\geq 15\%$) during treatment in any patient group²⁻⁴



Abbreviations: AE, adverse event; CI, confidence interval; OCS, oral corticosteroid; OR, odds ratio; SC, subcutaneous; URTI, upper respiratory tract infection.

References: 1. GlaxoSmithKline Inc. Mepolizumab (NUCALA) Health Canada Product Monograph. March 12, 2020. Available at: gsk.ca/nucala/en; 2. Bel EH, et al. N Engl J Med. 2014;371:1189-1197; 3. Lugogo N, et al. Clin Ther. 2016;38:2058-2070.e1; 4. Khurana S, et al. Clin Ther. 2019;41:2041-2056.e5.

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