

# Up to 82% of your patients with severe asthma are likely to have elevated levels of eosinophils<sup>1</sup>

Elevated eosinophils contribute to inflammation in the lungs of people with asthma. This inflammation drives poor asthma control and can lead to an increased risk of exacerbations.<sup>2-5</sup>

## HOW TO IDENTIFY PATIENTS WITH SEVERE EOSINOPHILIC ASTHMA:

-  Uncontrolled despite maximum doses of ICS/LABA treatment<sup>6,7</sup>
-  Have had 2 or more bursts of oral corticosteroids in a year<sup>7-9</sup>
-  Elevated levels of blood eosinophils ( $\geq 300$  cells/ $\mu$ L)<sup>6</sup>
-  Frequent exacerbations ( $\geq 2$  exacerbations annually)<sup>10</sup>
-   $\geq 18$  Adult onset<sup>10</sup>
-  Nasal polyps<sup>10</sup>

**PATIENTS WITH SEVERE EOSINOPHILIC ASTHMA THAT IS DIFFICULT TO CONTROL MAY BENEFIT FROM A REFERRAL TO A SPECIALIST FOR AN INJECTABLE BIOLOGIC TREATMENT<sup>6</sup>**

**REFERENCES:** 1. Perez-de-Liaino L, Tran TN, Al-ahmad M, et al. Characterization of Eosinophilic and Non-Eosinophilic Severe Asthma Phenotypes and Proportion of Patients with These Phenotypes in the International Severe Asthma Registry (ISAR). *Am J Respir Crit Care Med.* 2020;201:A4525. 2. Bleecker ER, Wechsler ME, FitzGerald JM, et al. Baseline factors impact on the clinical efficacy of benralizumab for severe asthma. *Eur Respir J.* 2018;52(4):1800936. 3. Woodruff PG, Khashayar R, Lazarus SC, et al. Relationship between airway inflammation, hyperresponsiveness, and obstruction in asthma. *J Allergy Clin Immunol.* 2001;108(5):753-758. 4. Price DB, Rigazio A, Campbell JD, et al. Blood eosinophil count and prospective annual asthma disease burden: a UK cohort study. *Lancet Respir Med.* 2015;3(11):849-858. 5. Tan LD, Bratt JM, Godor D, Louie S, Kenyon NJ. Benralizumab: a unique IL-5 inhibitor for severe asthma. *J Asthma Allergy.* 2016;9:71-81. 6. de Groot JC, Ten Brinke A, Bel EH. Management of the patient with eosinophilic asthma: a new era begins. *ERJ Open Res.* 2015;1(1):00024-2015. 7. Global Initiative for Asthma. Global Strategy for Asthma Management and Prevention, 2020. [https://ginasthma.org/wp-content/uploads/2020/06/GINA-2020-report\\_20\\_06\\_04-1-wms.pdf](https://ginasthma.org/wp-content/uploads/2020/06/GINA-2020-report_20_06_04-1-wms.pdf). Accessed March 11, 2020. 8. Chung KF, Wenzel SE, Brozek JL, et al. International ERS/ATS guidelines on definition, evaluation and treatment of severe asthma. *Eur Respir J.* 2014; 43(2): 343-373. 9. Coumou H, Bel EH. Improving the diagnosis of eosinophilic asthma. *Expert Rev Respir Med.* 2016;10(10):1093-1103. 10. de Groot JC, Storm H, Amelink M, et al. Clinical profile of patients with adult-onset eosinophilic asthma. *ERJ Open Res.* 2016;2(2):00100-2015.