



Paving the way for optimal disease control in moderate-to-severe type 2 asthma

An expert panel discussion recorded in March 2021



Disclaimer

- Unapproved products or unapproved uses of approved products may be discussed by the faculty; these situations may reflect the approval status in one or more jurisdictions
- The presenting faculty have been advised by touchIME to ensure that they disclose any such references made to unlabelled or unapproved use
- No endorsement by touchIME of any unapproved products or unapproved uses is either made or implied by mention of these products or uses in touchIME activities
- touchIME accepts no responsibility for errors or omissions



Oakstone

- Oakstone is accredited by the Accreditation Council for Continuing Medical Education, the American Nurses Credentialing Center and the Accreditation Council for Pharmacy Education to provide continuing education to healthcare professionals. As an accredited provider, Oakstone is required to disclose personal information to relevant accredited bodies that certify CME/CE to process credits/contact hours, comply with reporting requirements, and for internal recordkeeping and regulatory purposes. Oakstone does not share or sell any individual's contact information or unique identifiers to any commercial supporter, advertiser, or third party without the specific permission of the individual
- Walter Murray Yarbrough, MD, FACP has no conflicts of interest to disclose





Dr Michael Wechsler

National Jewish Health Denver, United States



Dr Flavia Hoyte

National Jewish Health Denver, United States Dr Roland Buhl

University of Mainz Mainz, Germany





Unravelling the pathogenesis of type 2 asthma

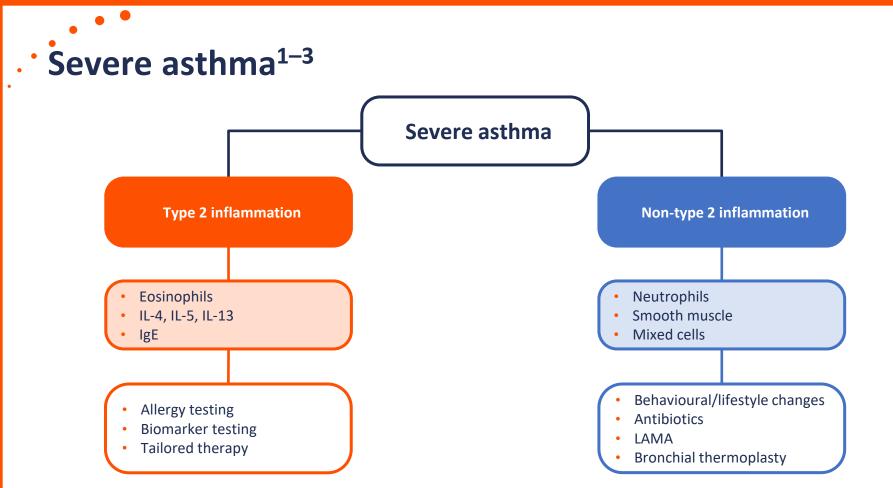
Identifying patients with type 2 asthma: Clinical and molecular considerations

Biologics in moderate-to-severe type 2 asthma: Current and future perspectives



Unravelling the pathogenesis of type 2 asthma

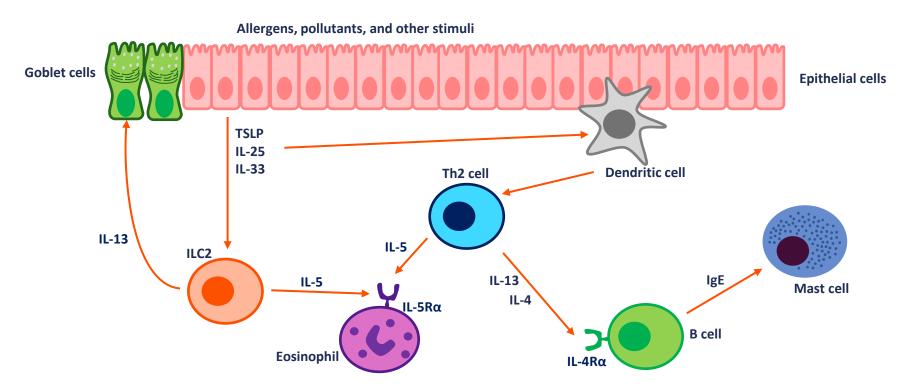




lgE, immunoglobulin E; IL, interleukin, LAMA, long-acting muscarinic antagonist. 1. Godar M, et al. *MAbs* 2018;10:34–45; 2. Stoodley I, et al. *Breathe*. 2019;15:e50–61; 3. Fajt ML, Wenzel SE. Allergy Asthma Immunol Res. 2017;9:3–14.



What is type 2 inflammation?



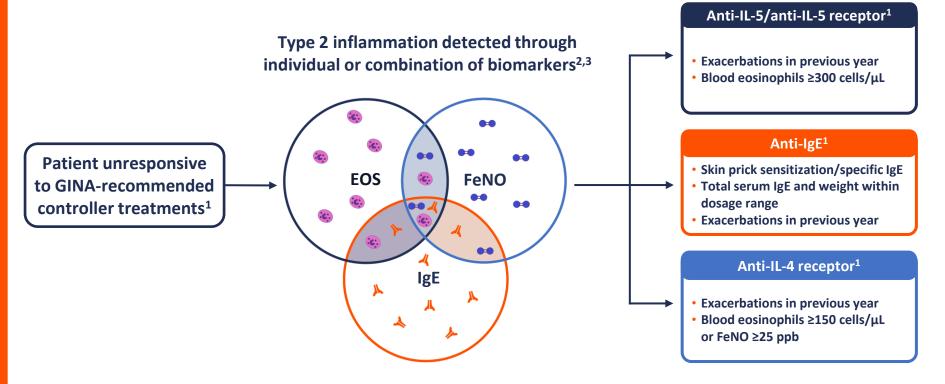
IgE, immunoglobulin E; IL, interleukin; IL-4Rα, IL-4 receptor alpha; IL-5Rα, IL-5 receptor alpha; ILC2, group 2 innate lymphoid cell; Th2, T helper 2; TSLP, thymic stromal lymphopoietin. Pelaia C, et al. *Front Immunol*. 2020;11:603312.



Identifying patients with type 2 asthma: Clinical and molecular considerations



Guidelines for type 2 asthma diagnosis and treatment



EOS, eosinophils; FeNO, fractional exhaled nitric acid; GINA, Global Initiative for Asthma; IgE, immunoglobulin; IL, interleukin; ppb, parts per billion.

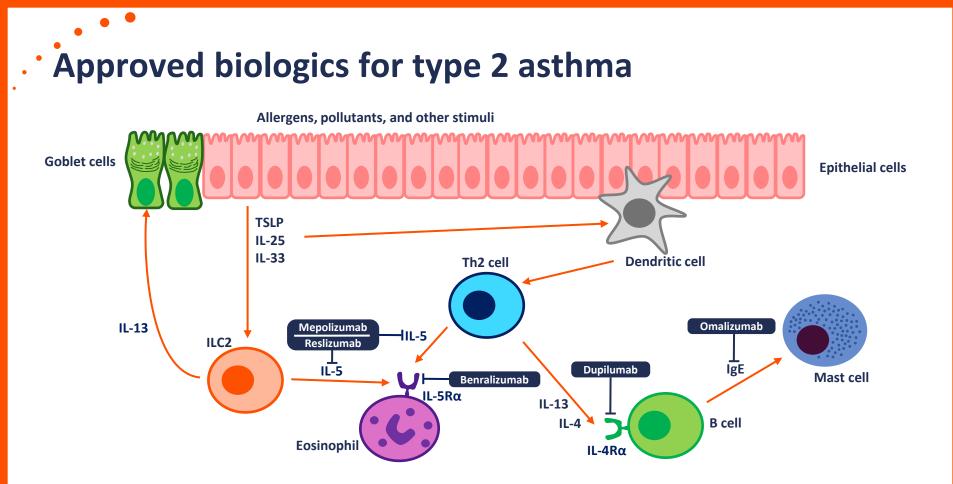
1. Global Initiative for Asthma: Global strategy for asthma management and prevention. 2020. Available at: www.ginasthma.org/gina-reports/ (accessed 17 March 2021);

2. Ray A, et al. Am J Physiol Lung Cell Mol Physiol. 2015;308:L130–40; 3. Brusselle GG, et al. Nat Med. 2013;19:977–9.



Biologics in moderate-to-severe type 2 asthma: Current and future perspectives





IgE, immunoglobulin E; IL, interleukin; IL-4Rα, IL-4 receptor alpha; IL-5Rα, IL-5 receptor alpha; ILC2, group 2 innate lymphoid cell; Th2, T helper 2; TSLP, thymic stromal lymphopoietin. Pelaia C, et al. *Front Immunol*. 2020;11:603312.



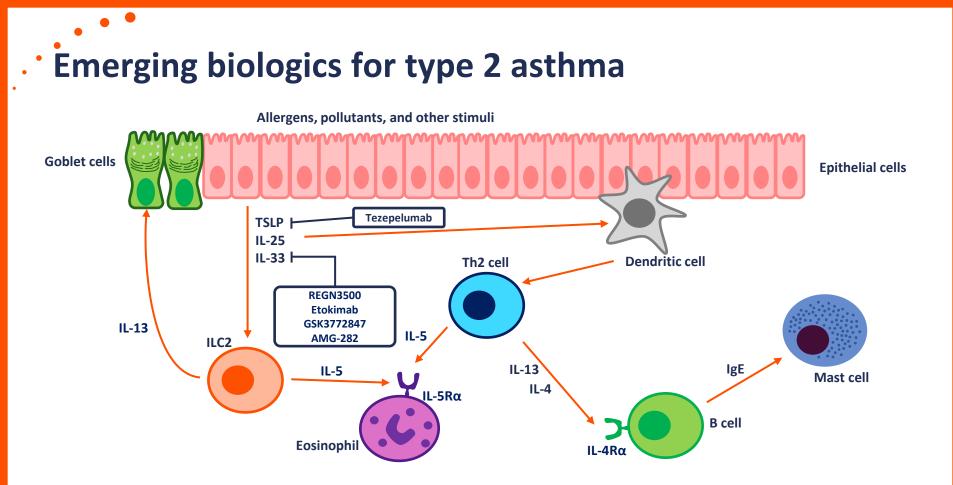
• Future perspectives for approved biologics

Ongoing phase III trials in moderate-to-severe asthma

Benralizumab								Mepolizumab	
PONENTE NCT03557307		MIRACLE NCT03186209		TATE NCT04305405		NCT03470311		NCT03562195	
Adults (≥18 years)		Adolescents and adults (12–75 years)		Children (6–11 years)		Adults (≥18 years)		Adolescents and adult (≥12 years)	
To reduce OCS in patients receiving ICS and LABA		Uncontrolled asthma despite ICS, LABA, and OCS		PK, PD, and long-term safety		Prednisone-dependent eosinophilic asthma		Efficacy and safety in a Chinese cohort	
				Dupilu	mab				
	Continuation of TRAVERSE NCT03620747		Liberty Asthma Excursion NCT03560466		NCT03884842		NCT03782532		
* †* †*†	Adolescents and adults (≥12 years)		Children (7–12 years)		Adults (≥18 years)		Adolescents and adults (≥12 years)		
ļ	Long-term safety		Long-term safety and tolerability		To suppress airway hyperresponsiveness		Efficacy in persistent asthma		

MMUNOLOGY

ICS, inhaled corticosteroid; IL, interleukin; LABA, long-acting β_2 -agonist; OCS, oral corticosteroid; PD, pharmacodynamic; PK, pharmacokinetic. Clinical trials listed by their identifiers at: ClinicalTrials.gov (accessed 17 March 2021).



IgE, immunoglobulin E; IL, interleukin; IL-4Rα, IL-4 receptor alpha; IL-5Rα, IL-5 receptor alpha; ILC2, group 2 innate lymphoid cell; Th2, T helper 2; TSLP, thymic stromal lymphopoietin. McGregor MC, et al. *AJRCCM*. 2019;199:433–45.

