

# Healthcare Resource Use in Patients With Severe Eosinophilic Asthma After the Initiation of Mepolizumab in Real-Life Settings: REALITI-A Study



Poster No. PRS68

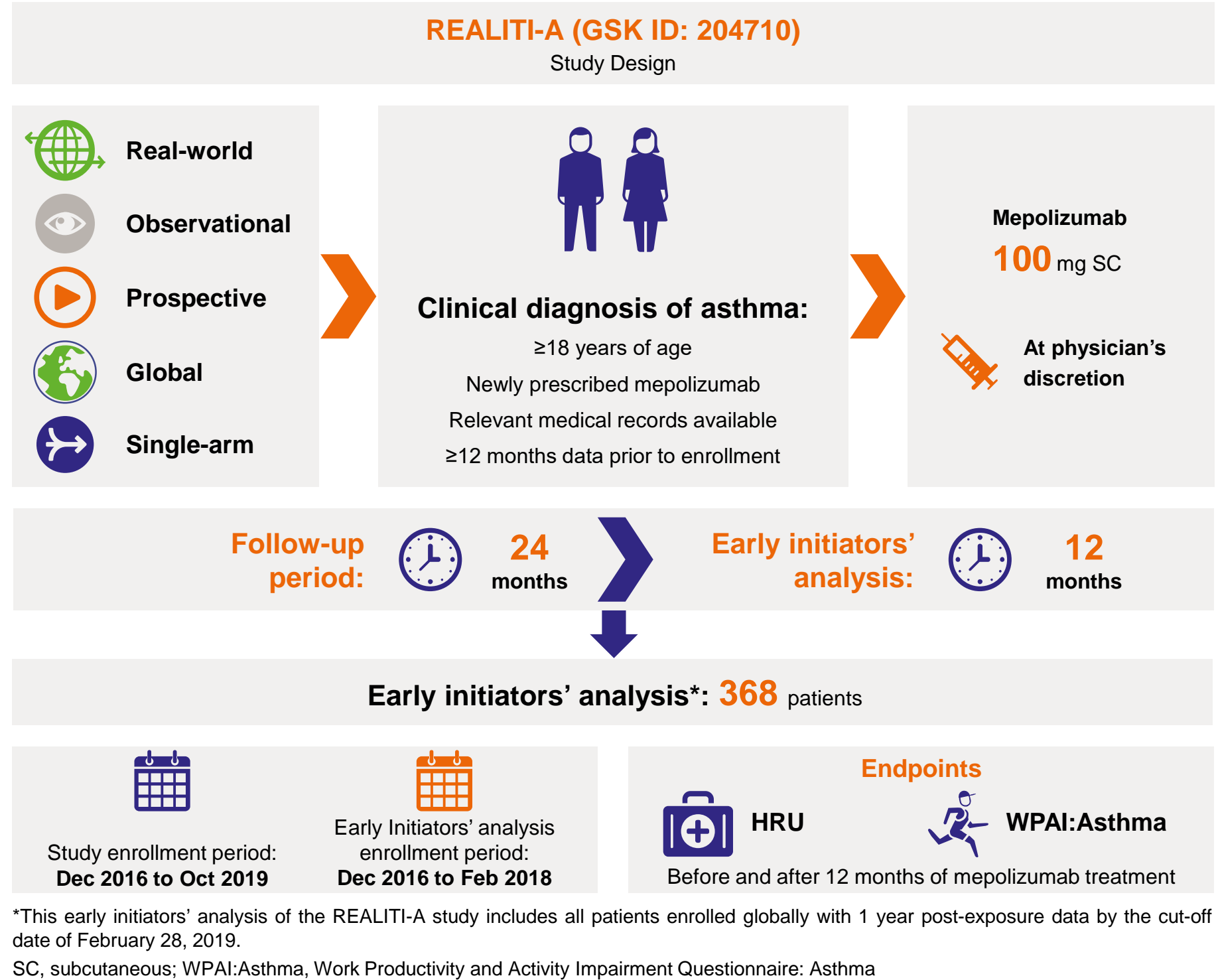
Yang S<sup>1</sup>, Maxwell A<sup>2</sup>, Joksaita S<sup>3</sup>, Chaudhuri R<sup>4</sup>, Pastorello E<sup>5</sup>, Lee JK<sup>6</sup>, Köhler T<sup>7</sup>, Ramos-Barbón D<sup>8</sup>, Schleich F<sup>9</sup>, Steven G<sup>10</sup>, Alfonso-Cristancho R<sup>1</sup>

<sup>1</sup>Value Evidence and Outcomes, GSK, Collegeville, PA, USA; <sup>2</sup>Real World Study Delivery, Value Evidence and Outcomes, Global Medical, GSK, Stevenage, UK; <sup>3</sup>Clinical Statistics, R&D Projects Clinical Platforms and Sciences, GSK, Uxbridge, UK; <sup>4</sup>Institute of Infection, Immunity and Inflammation, University of Glasgow, Glasgow, UK; <sup>5</sup>Unit of Allergy and Immunology, Dipartimento Medico Polispecialistico, ASST Grande Ospedale Metropolitano Niguarda, Milan, Italy; <sup>6</sup>Health Network, Toronto Allergy and Asthma Clinic, Toronto, ON, Canada; <sup>7</sup>Department of Pneumology, Medical Center University of Freiburg, Faculty of Medicine, University of Freiburg, Freiburg, Germany; <sup>8</sup>Respiratory Medicine Department and Biomedical Research Institute, Hospital de la Santa Creu i Sant Pau, Universitat Autònoma de Barcelona, Barcelona, Spain; <sup>9</sup>Respiratory Medicine, GIGA I3, University of Liege, Liege, Belgium; <sup>10</sup>Allergy, Asthma & Sinus Center, Milwaukee, WI, USA

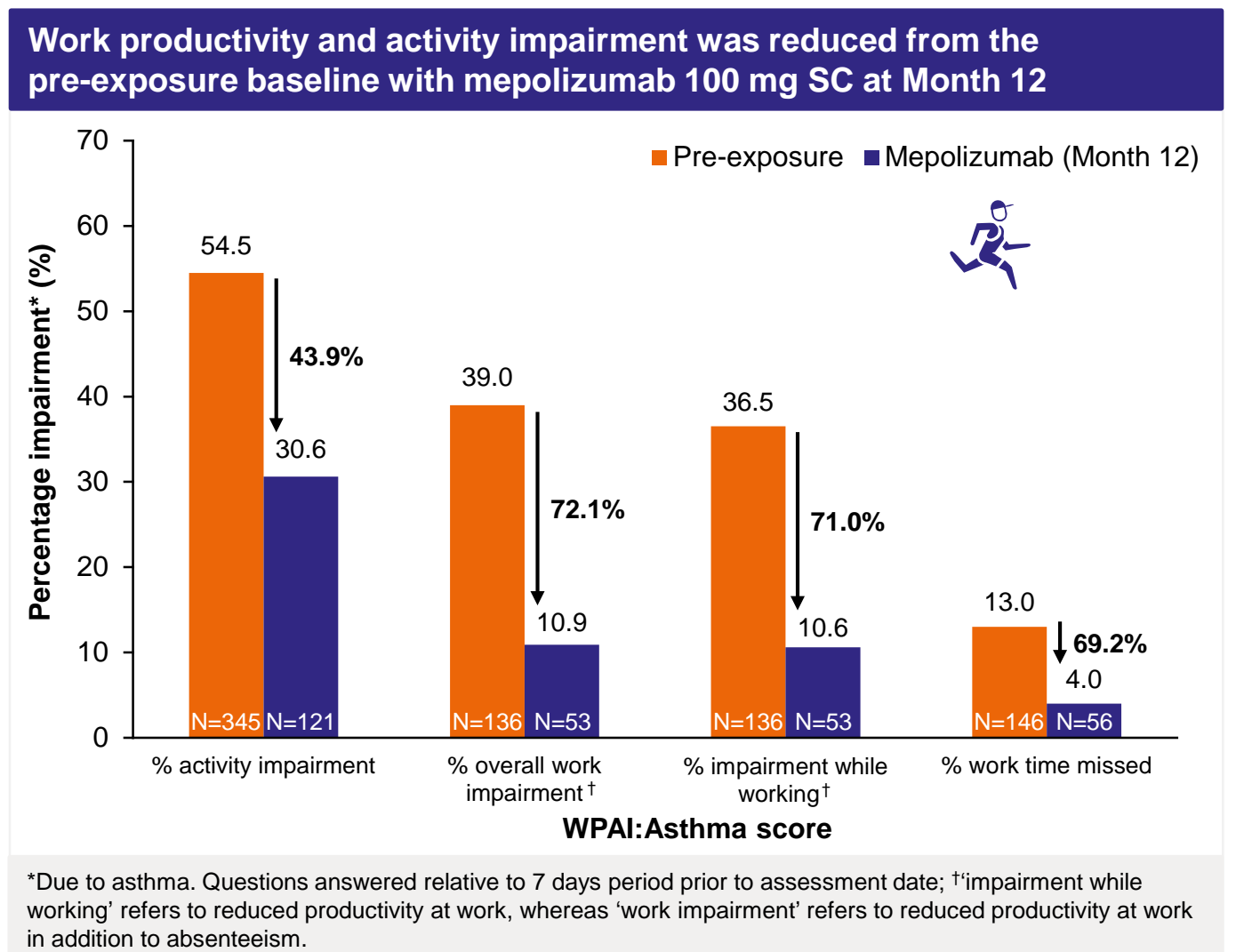
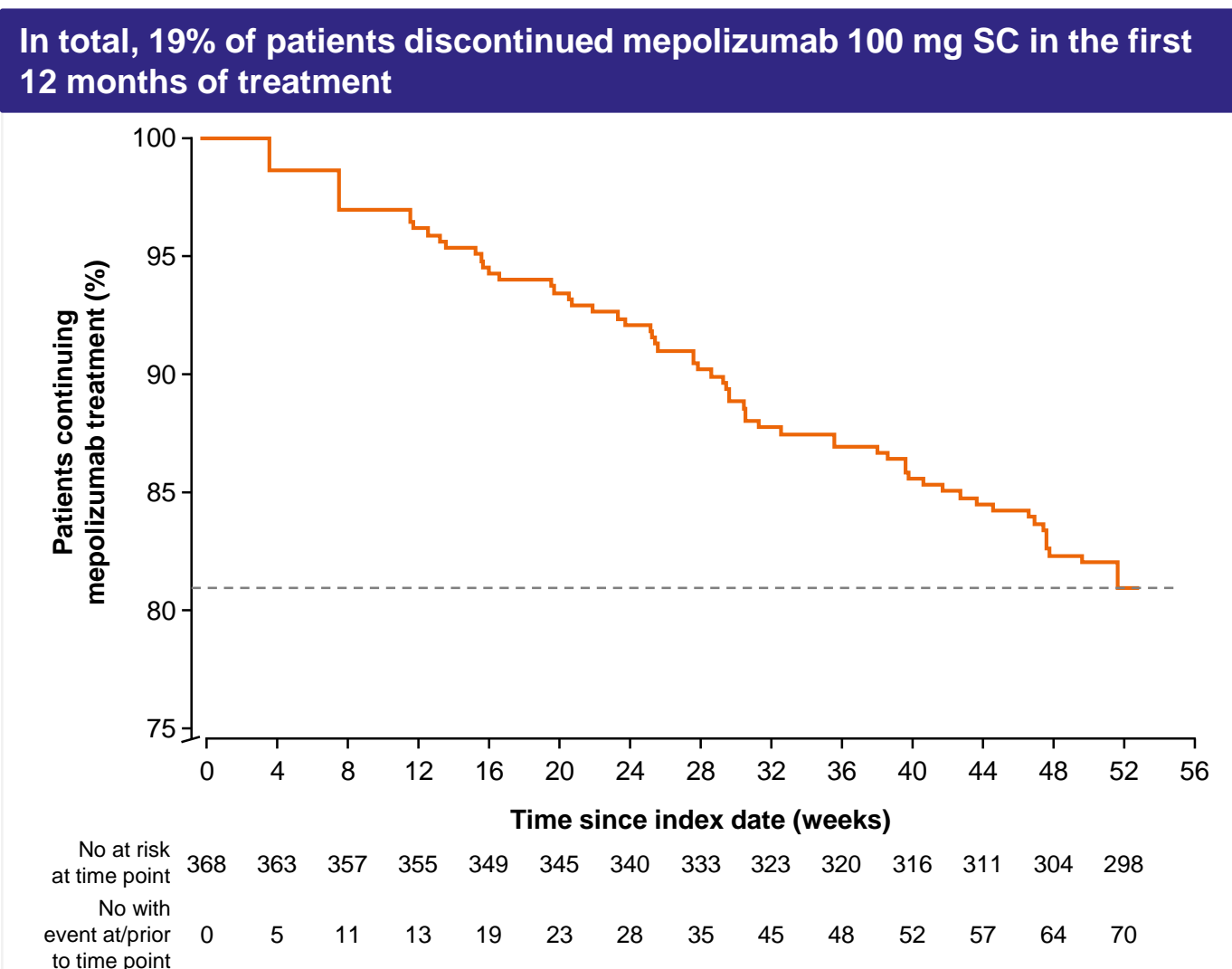
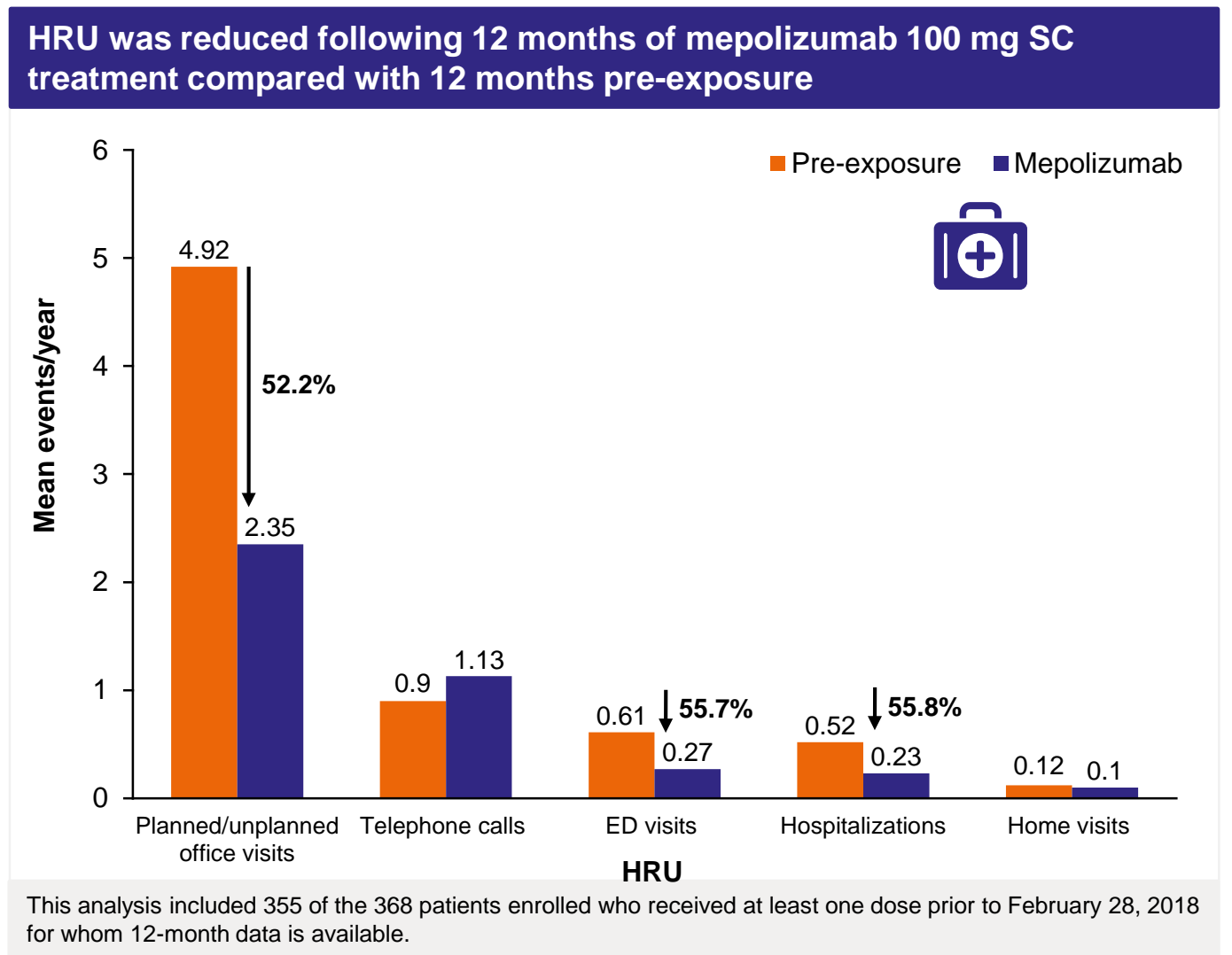
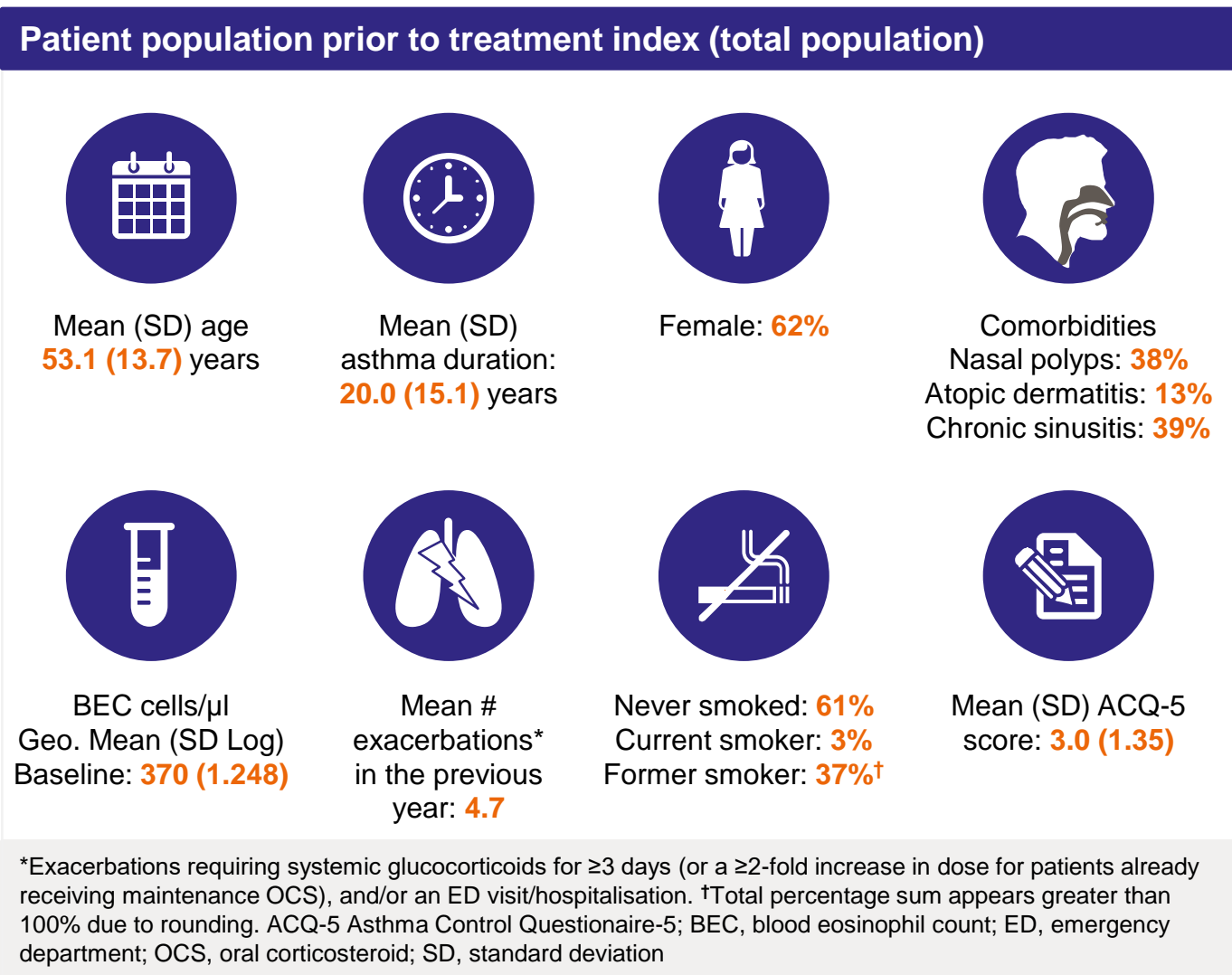
## Objectives

- Patients with severe asthma, including severe eosinophilic asthma, comprise only 3–10% of the total asthma population but require a disproportionately large amount of total healthcare resource utilization (HRU), and have greater activity impairment and lower work productivity than patients with mild or moderate asthma.<sup>1–5</sup>
- Treatment with the anti-interleukin-5 monoclonal antibody, mepolizumab in patients with severe eosinophilic asthma, improves disease outcomes, work productivity and activity impairment, and may reduce HRU.<sup>6–8</sup>
- The prospective, open-label, observational REALITI-A study assessed the real-world clinical outcomes of patients with severe eosinophilic asthma with mepolizumab treatment including HRU, work productivity and activity impairment; these data may be informative for healthcare system resource allocation.
- The objective of this early initiators' analysis of the REALITI-A study is to describe HRU and work productivity and activity impairment of patients with severe eosinophilic asthma from REALITI-A before and 12 months after mepolizumab initiation.

## Methods



## Results



## Conclusions

- The use of mepolizumab 100 mg SC in real-world clinical practice in patients with severe eosinophilic asthma was associated with substantial reductions in HRU, particularly hospitalizations, and emergency department and office visits.
- Similarly, treatment with mepolizumab 100 mg SC was associated with substantial improvements in activity and work productivity.
- These results suggest that patients with severe eosinophilic asthma demonstrate real-world improvements in HRU, and work productivity and activity with mepolizumab.

### References

1. Global Initiative for Asthma (GINA) global strategy for asthma prevention and management 2019. Available from: <https://ginasthma.org/wp-content/uploads/2019/06/GINA-2019-main-report-June-2019-wms.pdf> [last accessed March 2020]; 2. Suruki RY, et al. *BMC Pulm Med* 2017;17(1):74; 3. Inoue H, et al. *NPJ Prim Care Respir Med* 2019;29(1):13; 4. Kerckhof M, et al. *Thorax* 2018;73(2):116–24; 5. Chen H, et al. *Value Health* 2008;11(2):231–9; 6. Nucalea Highlights of prescribing information. Available from: [https://www.accessdata.fda.gov/drugsatfda\\_docs/label/2019/761122s000lbl.pdf](https://www.accessdata.fda.gov/drugsatfda_docs/label/2019/761122s000lbl.pdf) [last accessed March 2020]; 7. Llanos JP, et al. *J Asthma Allergy* 2020;13:77–87; 8. Gunsoy NC, et al. *Eur Respir J* 2017;50:PA654.

### Disclosures

- This analysis and the parent study were funded by GlaxoSmithKline (GSK ID 204710).
- SY, AM, SJ, and RAC are employees of GSK and own stocks/shares. RC has been an advisory board member for GSK, AstraZeneca, Novartis, Teva, and Boehringer Ingelheim; received a study grant from AstraZeneca within an MRC project and educational grants from Novartis and lecture fees from GSK, AstraZeneca, and Novartis. EP reports no disclosures. JKL reports grants and personal fees from Novartis, AstraZeneca, and Sanofi, as well as personal fees from GSK, Merck, and CSL. TK reports personal fees for lecturing and advice from Actelion, AstraZeneca, BerlinChemie, Chiesi, GlaxoSmithKline, and Novartis, outside the submitted work. DR-B has received fees for advisory boards and speaker meetings from GSK, AstraZeneca, TEVA, Chiesi, and Novartis. FS reports honoraria or consultation fees from GSK, AstraZeneca, Chiesi, Menarini, Mundipharma, and Novartis in addition to participation in sponsored bureaus for AstraZeneca, Chiesi, GSK, and Novartis. GS has served as a speaker or advisor for Aimmune, ALK, Allergy & Asthma Network, AstraZeneca, Boehringer Ingelheim, and Optinose; and has been an investigator for 3M, AstraZeneca, Chiesi, GSK, Lupin, Menlo, Merck, NeRRRE, Novartis, Pearl Therapeutics, Sanofi, Teva, and Watson.
- \*DR-B contributed to this study and the parent abstract but was not available to provide input to the development of this poster presentation or approve the final version.
- Editorial support (in the form of writing assistance, including development of the initial draft based on author direction, assembling tables and figures, collating authors' comments, grammatical editing, and referencing) was provided by Nathan Ley, PhD, at Fishawack Indicia Ltd, UK, and was funded by GSK.