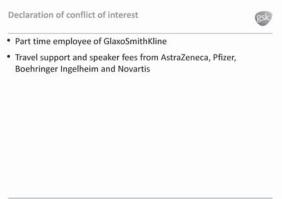
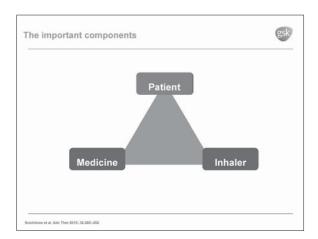
The important components for treating asthma

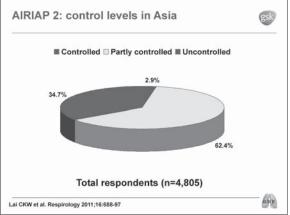
Respiratory Research, The George Institute for Global Health, GSK Global Medical Expert

Norbert Berend









Why is it so important to understand the patient experience of asthma?



- Successful asthma management requires a good partnership between patients and HCPs; a shared language and understanding is vital¹
- The European REALISE survey (n=8000) published in 2014 highlighted a disconnection between patients' perceptions of their asthma and guideline-defined levels of control¹
 - Of those who considered their asthma controlled, 55.5% had experienced symptoms that interfered with normal activities and 52.5% had awoken at night owing to asthma in the previous week¹

1. Price D et al. NPJ Prim Care Respir Med 2014;24:14009.

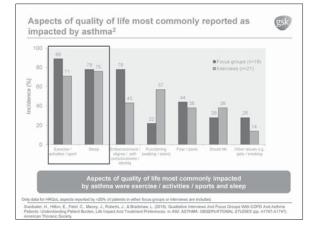
Overview of symptoms experienced by patients²

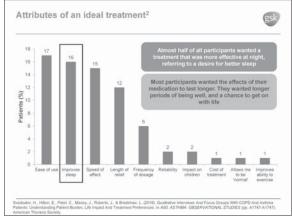


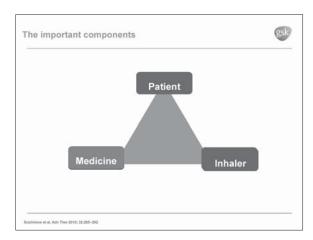
Symptom	Focus groups (n=18) n (%)	Interviews (n=21) n (%)
Shortness of breath	7 (39)	20 (95)
Wheezing	7 (39)	18 (86)
Coughing	4 (22)	14 (67)
Chest tightness	4 (22)	14 (67)
Flare ups	0	12 (57)
Back/chest/lung pain	0	6 (29)
Coughing up mucus	0	3 (14)
Tiredness	0	2 (10)
Lack of energy	0	2 (10)
Chest infections	0	2 (10)

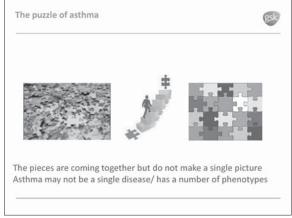
Within the group setting, many patients downplayed their symptoms and were less likely to admit to them. When probed individually, however, they were more likely to admit to having symptoms

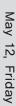
Svedsater, H., Hilton, E., Patel, C., Macey, J., Roberts, J., & Bradshaw, L. (2016). Qualitative interviews And Focus Groups With COPO And Asthma Patients: Understanding Patient Burden, Life Impact And Treatment Preferences. In ASC ASTHMA: OBSERVATIONAL STUDIES (pp. A1747-A1747 American Traccio Boolety.)

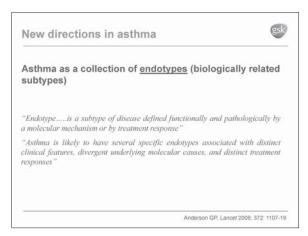


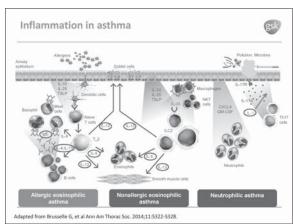












Biomarkers of Type 2 Inflammation

g

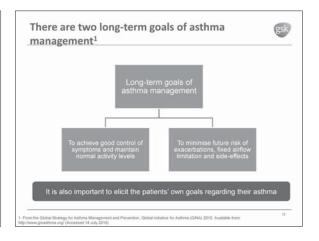
Sputum eosinophils

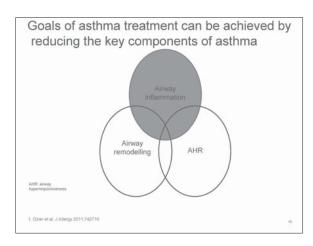
- Early marker for steroid responsiveness (absence = poor response)
- Marker of IL-5 importance

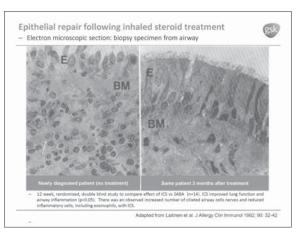
Blood eosinophils

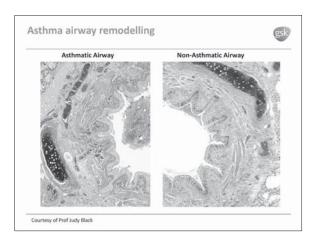
- Surrogate biomarker for eosinophilic inflammation in asthma
- Relatively easy to obtain
- \bullet Cut-off used in clinical trials ranged between 150 and 300 cells/µL

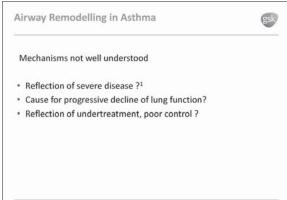
Wan XC & Woodruff PG. Immunol Allergy Clin North Am 2016; 36(3): 547-57



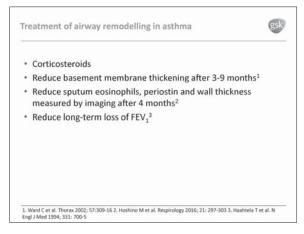


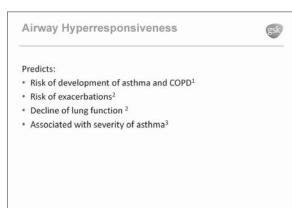


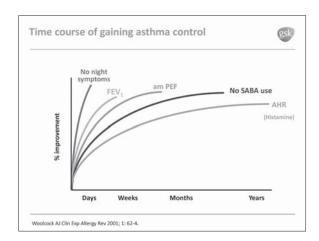


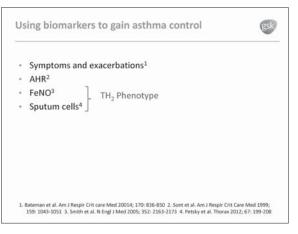


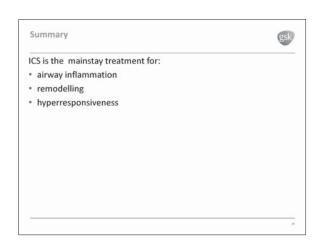
1. James AL et al. Eur Respir J 2009; 34: 1040-1045

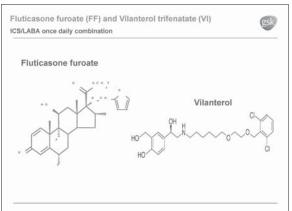


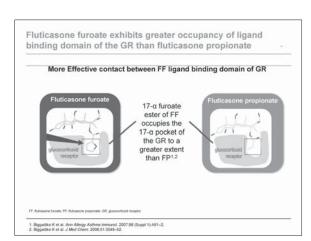


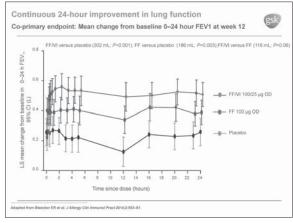


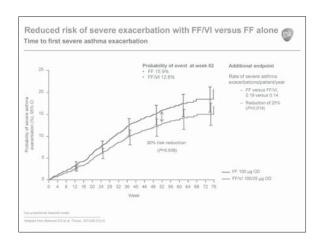


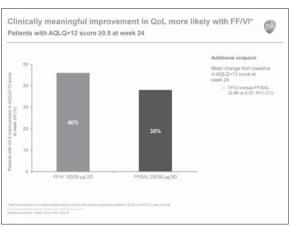


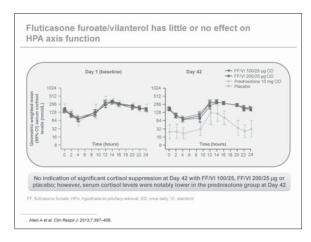


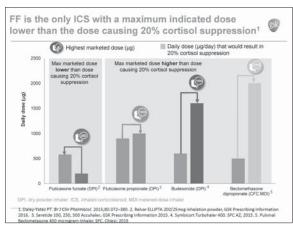


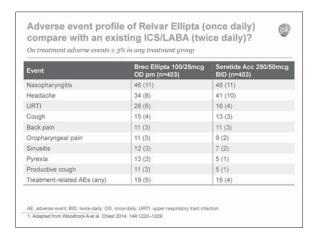


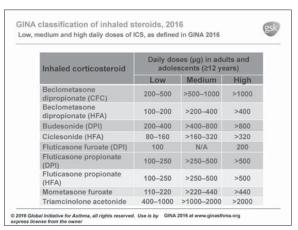


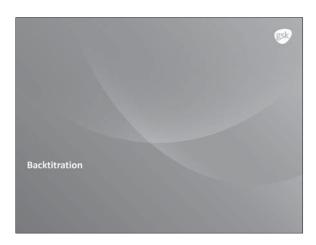


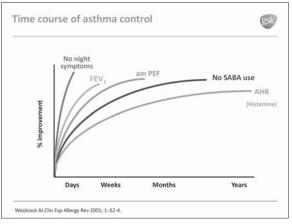


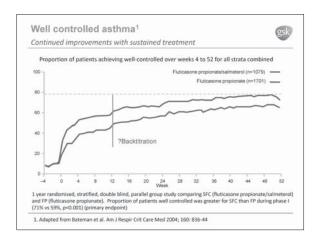


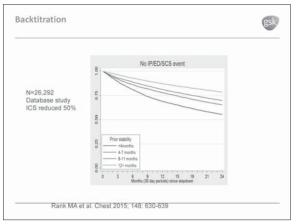


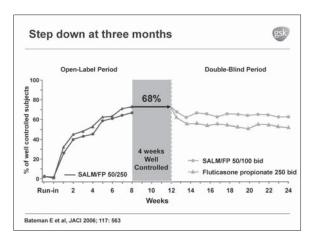


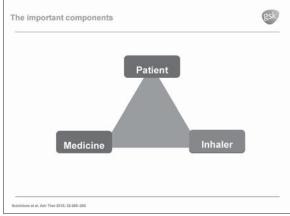


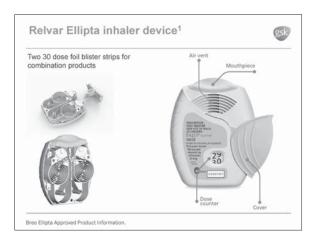


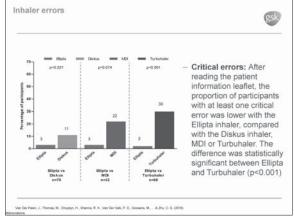


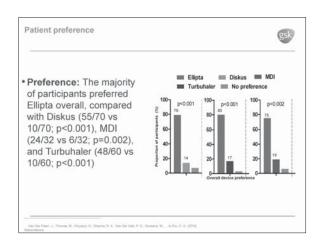


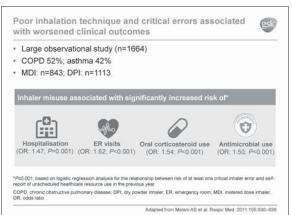












The evolution of asthma management and inhalation therapy – a long journey



In 2017 we don't have:

- · Major advances in patient adherence
 - Approaches to address adherence should be specifically tailored to patient profiles in order to maximise the benefits – still some time off
- Inhaler sensors to detect timing and effectiveness of the inhaler
- these are coming soon
- Real-life effectiveness trials (rather than efficacy trials) similar to SLS COPD
 - -This is coming in 2017

The evolution of asthma management and inhalation therapy – a long journey



In 2017 we have:

- Efficacious medications with prolonged duration of action allowing OD treatment – Relvar Ellipta
- · Easy to use inhalers with few critical patient errors
- Evolving understanding of asthma phenotypes and endotypes which will lead to more personalised medicine eg new biologicals for treatment of severe asthma (Anti-IgE, Anti IL-5, others)

45

