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German Asthma Net

- · Severe persistent asthma represents the highest unmet medical need among the asthmatic population
- Improvement of the understanding of severe disease progresses in pediatric and adult asthma



German Asthma Net

- . Registry to optimise diagnostic evaluation and treatment of adults and children with severe asthma
- Detailed characterization of patients with severe asthma



Severe Asthma Registry Definition of severe asthma (adults)

Either high-intensity treatment (with or without asthma control) (A) or moderate-intensity treatment and poor asthma control (B):

A. High-intensity treatment

- Maintenance therapy with high dose ICS (≥ 1000µg BDP equivalent)
- + LABA and/or LTRA and/or theophylline
- Maintenance therapy with OCS ≥ past 3 months
- · Omalizumab therapy

B. Moderate-intensity treatment

 Maintenance therapy with moderate to high dose ICS (> 500ug RDP) equivalent) + LABA and/or LTRA and/or theophylline

and poor asthma control

- Daytime asthma symptoms ≥ 3x/week
- · Limitations of activities due to asthma
- Nocturnal asthma symptoms
- Exacerbation(s) ≥1 in the past year requiring ≥ 3 days OCS treatment
- . Impaired lung function: FEV1 < 80% pred.

German Severe Asthma Registry



261 patients as of August 2012

Analysis of patients (n=226) included by abstract authors				
Parameter	Adults (n=202)	Children (n=24)		
Age (yrs.)	49.4±0.9	11.8±0.9		
Male	76 (38%)	11 (46%)		
Never smokers	120 (59%)	24 (100%)		
FEV1 (L)	1.9±0.1	2.5±0.3		
FEV1 (% pred.)	61.6±1.4	86.2±4.8		
eNO (ppb)	50±5	41±14		
Asthma control (uncontrolled)	158 (78%)	7 (29%)		
ACQ-5	2.9±0.1	1.9±0.4		
AQLQ	3.9±0.1	4.8±0.3		
Allergic asthma	111 (55%)	23 (96%)		
Oral corticosteroids Dose (mg prednisolone)	86 (43%) 16±2	2 (8%) NA		
Omalizumab Median dose (mg)	80 (40%) 300	16 (67%) 600		
Exacerbations (no/year)	3.4±0.3	3.7±0.9		

1. Registration of patients



2. Data entry



- Medical history
- Lung function
- · Asthma control and quality of life
- Comorbidities

- Symptoms
- Treatment Allergology

3. Data export and analysis

Übersicht	Kennwort ändern	Luguut		
Patienten	wForms.	Überblick	Benutzerliste	Expor
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Summary

- Ongoing recruitment of a large number of patients with severe asthma → characterization of clinical, physiologic, cellular and biochemical parameters related to severe disease in a longitudinal assessment
- . Identification of parameters that may improve diagnosis, phenotyping, management and treatment
- Ideal patient cohort to perform clinical trials

Categorical variables: n (%), continuous endpoints: mean ± SEM

Confirmation and extention of results of similar databases such as U-BIOPRED and SARP