Demographic and clinical characteristics of patients with severe asthma in Japan and South Korea

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Disclosures

The presenter has indicated that they have a relationship which in the context of their presentation, could be perceived as a real or apparent conflict of interest but do not consider that it will influence their presentation. The nature of the conflict is listed:

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Rationale

- Regional and/or national severe asthma registries provide valuable country-specific information.
- Inter-country comparisons are hindered by fundamental differences in data collected, making cross comparisons difficult
- What is missing?:
 - a worldwide registry,
 - bringing all severe asthma data together in a cohesive way, Ο under a single umbrella,
 - based on standardized data collection protocols,
 - permitting data to be shared seamlessly.



Introducing the International Severe Asthma Registry (ISAR)¹

- ISAR is the first global severe asthma registry
- Collects patient-level, pseduonymized, longitudinal, reallife, standardized, high-quality data, using a set of core variables²
- Currently collaborating with 29 countries worldwide³
 - Asia: Taiwan, India Singapore, **Japan and South Korea**





Methods

Patients:		Data:
•	From severe asthma secondary and tertiary care centres	• Wh dat
•	Aged \geq 18 years old	• Wh
•	On GINA ¹ Step 5 treatment or with uncontrolled asthma on GINA ¹ Step 4	and • Wh 201

: what, where & when

- hat: Demographic & clinical Ita
- here: From centres in Japan d Korea
- hen: Collected between May 18 and Sept 2019



Results: demographic & clinical characteristics (new data)

Characteristic	Japan (n=67)	Japan South Korea (n=67) (n=39)	
Age, yrs, Mean (SD)	63.9 (14.0)	52.3 (15.1)	55.0 (15.9)
BMI, Mean (SD) Normal (≥ 18.5 - <25), n (%)	24.8 (4.2) 35 (55.5)	24.6 (3.6) 18 (47.3)	1345 (27.4)
Age of asthma onset, yrs Mean (SD)	39.3 (16.2)	38.3 (17.0)	30.7 (17.7)
Smoking status, n (%) Ever smoked Non-smoker	20 (31.7) 43 (68.2)	12 (31.5) 26 (68.4)	1950 (39.3) 2997 (60.5)
Exacerbations, mean (SD)	1.7 (2.3)	0.7 (1.5)	1.7 (2.7)
PB FEV ₁ (% predicted), Mean (SD)	86.7 (23.7)	77.2 (21.3)	75.8 (17.1)
% Reversibility*, Mean (SD)	5.2 (5.2)	7.2 (5.4)	GINA 4: 6.8 (7.4) GINA 5: 7.1 (8.5)
% patients with FEV ₁ /FVC<0.7	39.6% (n=19/48)	52.6% (n=20/38)	GINA 4: 39.4% GINA 5: 34.6%

1. Wang et al, Chest 2019; SD: standard deviation; BMI: body mass index; PB: post bronchodilator; FEV₁: forced expiratory volume in 1 second; FVC: forced vital capacity *Reversibility calculated according to ERS guidelines (Quanjer et al, 1993)



Results: Biomarkers New data hot off the press

Characteristic	Japan (n=67)	South Korea (n=39)	ISAR Global ¹
BEC (x 109/L), mean (SD)	0.48 (0.50)	0.49 (0.56)	
≤0.30 <i>,</i> n (%)	22 (46.8)	17 (56.7)	1923 (51.4)
>0.30, n (%)	25 (53.2)	13 (43.3)	1813 (48.5)
FeNO (ppb)			
<25 <i>,</i> n (%)	17 (37.8)	7 (38.9)	934 (43.1)
≥25 <i>,</i> n (%)	28 (62.2)	11 (61.1)	1234 (56.9)



Results: clinical characteristics





Asthma control

- **JP:** More patients with CRS, AD & NP vs SK
- JP & SK: greater co-morbidity burden vs **ISAR Global**

AR: allergic rhinitis; CRS; chronic rhinosinusitis; AD: atopic dermatitis; NP: nasal polyps; OCS: maintenance oral corticosteroids; BEC: blood eosinophil count; JP: Japan; SK: South Korea; ISAR: International Severe Asthma Registry; Bx: biologics; * non-missing data – JP: n=46; SK: n=38



Asthma Medication

Conclusions

RESEARCH REQUESTS AND PROPOSALS				
IS / R	Registry ~	Collaborations ~	Research ~	Dissemination ~

Research / Proposal Question *

Fund	Ind	SOU	rce

Proposal documentation

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Submit

SK: South Korea; JP: Japanese; CRS: chronic rhinosinusitis; NP: nasal polyps; OCS: oral corticosteroid; BEC: blood eosinophil count; FeNO: fractional exhaled nitric oxide; ISAR: International Severe Asthma Registry; AR: allergic rhinitis

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APSR



