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B Manuscript	C Study aim	D Study design	E Setting and time	F Methods	G Socio-demography	H Phenotypes	I Summary
in work complete	in work complete	in work complete	in work complete	in work complete	in work complete	in work complete	in work complete

B Manuscript classification according to systematic review aims

1. Do you agree with previous reviewers that this study is relevant to identify a clinically expressed, population-based phenotype/s of IgE - associated diseases or conditions including asthma/wheezing, atopic eczema, rhinoconjuntivitis, food allergy, urticaria and anaphylaxis, as well as their interrelationships, from childhood to young adulthood ?

yes no

2. Do you think this study does fulfill the protocol inclusion criteria ?

yes no show inclusion criteria

3. Do you think this study fulfills one or more protocol exclusion criteria ?

yes no show exclusion criteria

3.1 Which criteria is not fullfilled ?

4. According to the study aims and focus, indicate in which of the following categories you would include this study ?

- [ ] The study explores heterogeneity within phenotypes
- [ ] The study explore overlap between phenotypes
- [ ] The study appraised or validated methods (test or biological measurements) to better define or classify phenotypes
- [ ] None of the previous categories

C - Study aim/s and hypothesis

Study hypothesis

1. Was the study hypothesis clearly described in the text ?

- ( ) yes
- ( ) no

Study aim/s

2. Please copy the full aim/s text and paste into the box below

D - Disease/s or condition/s included and study design

1. Which IgE associated diseases or conditions are included in this study (MR) ?

- [ ] Asthma and/or wheeze
- [ ] Rhinitis
- [ ] Eczema / Atopic dermatitis
- [ ] Food Allergy
- [ ] Urticaria
- [ ] Anaphylaxis

2. Considering the aim/s of the study, in which of the following categories you would include it (MR) ?

- [ ] Description of phenotypes (*)
- [ ] Validation of phenotypes (*)
- [ ] Prognosis (*)
- [ ] Treatment response (*)
- [ ] Others

(*) see tooltips

3. Which of the following categories of study designs should this study be included ?

- ( ) Case series
- ( ) Cross-sectional
- ( ) Case-control
- ( ) Cohort
- ( ) Clinical trial

Cohort study : please answer questions from **4.1** to **4.3**

4.1 Which was the type of follow-up ?

- ◯ Prospective
- ◯ Retrospective

4.2 Could you indicate the age at the starting and end of individual's follow-up ?

Age ...	**at starting point**	**at end point**
... if in years	[ ] years	[ ] years
... if in months	[ ] months	[ ] months

4.3 How many times was information collected over the period of follow-up including baseline and end point ?

- ◯ Never/unknown
- ◯ 1 x ◯ 2 x ◯ 3 x ◯ 4 x ◯ 5 x ◯ 6 x ◯ 7 x ◯ 8 x ◯ 9 x ◯ >= 10 x

Clinical trial : please answer questions from **5.1** to **5.10**

5.1 If the study design was a clinical trial, mark the items that best describe its characteristics (MR) ?

- ☐ Randomized
- ☐ Double blind
- ☐ Population-based
- ☐ Community Intervention
- ☐ Comparison group
- ☐ Multicenter

"Intervention" selected : please answer also questions **5.2** to **5.3**

5.2 Was the intervention clearly defined ?

- ◯ yes
- ◯ no

5.3 Could you briefly describe the intervention ?

[ ]

5.4 Were the inclusion/exclusion criteria clearly specified ?

- ◯ yes
- ◯ no

5.5 How many groups were compared ?

[ ] groups

5.6 Overall, how long was the period of follow-up ?

years : [ ] **OR** months : [ ]

5.7 How many times was information collected over the period of follow-up including baseline and end point ?

- ◯ Never/unknown
- ◯ 1 x ◯ 2 x ◯ 3 x ◯ 4 x ◯ 5 x ◯ 6 x ◯ 7 x ◯ 8 x ◯ 9 x ◯ 10 x

5.8 Was intention to treat analysis described in the methods section ?

◯ yes ◯ no

5.9 Was intention to treat analysis really carried out ?

◯ yes ◯ no

5.10 Did the authors of the manuscript mention that the study design complied with the CONSORT statement ?

◯ yes ◯ no **see CONSORT statement**

E - Study setting and time

1. How would you describe the study population ?

◯ Population based ◯ Clinical population

1.1 Could you indicate which was the setting from which the individuals were recruited (MR) ?

☐ Hospital ☐ Outpatients clinic ☐ Disease registry ☐ Primary care ☐ Others

2 Was the study conducted only in one country or at international level ?

◯ One country ◯ International level

2.1 In which country was the study conducted ?

3. Was the study period available ?

◯ yes ◯ no

3.1 Period of recruitment ?

Starting year : Finishing year :

4. Which was the total number of individuals included into the study ?

Number of individuals :

5. Which was the participation rate ?

Rate (in %):

6. If the participation rate was not 100%, were differences between included and excluded individuals assessed ?

◯ yes ◯ no

F - Methods used for individuals assessment

Questionnaires

1. Were questionnaires used for the individuals assessment ?

◯ yes ◯ no

1.1 Was a reference given for the questionnaire ?

◯ yes ◯ no

1.2 Which was the reference number ?

Reference number : [ ]

1.3 How was the questionnaire administered (MR) ?

☐ Self-administered ☐ Telephone ☐ Personal interview ☐ Clinical examination

Biological measurements

2.1 Was total IgE measured?

◯ yes ◯ no

2.2 Were specific IgEs measured ?

◯ yes ◯ no

2.3 Which type of allergens were tested ?

☐ Food 2.3.1 How many allergens were tested ? [ ]
☐ Indoor 2.3.2 How many allergens were tested ? [ ]
☐ Outdoor 2.3.3 How many allergens were tested ? [ ]

2.4 Was the skin prick test used ?

◯ yes ◯ no

2.5 Which type of allergens were tested ?

☐ Food 2.5.1 How many allergens were tested ? [ ]
☐ Indoor 2.5.2 How many allergens were tested ? [ ]
☐ Outdoor 2.5.3 How many allergens were tested ? [ ]

2.6 Was the patch test used ?

◯ yes ◯ no

2.6.1 How many allergens were tested ?

Number of allergens : [ ]

2.7 Was spirometry test used to measure lung function ?

◯ yes ◯ no

2.7.1 Was a post-bronchodilator test performed ?

◯ yes ◯ no

2.8. Was peak flow test used to measure lung function ?

◯ yes ◯ no

2.9. Was a BHR test performed ?

◯ yes ◯ no

2.9.1 Which was the method used ?

☐ Methacoline ☐ Hypertonic Saline ☐ Exercise ☐ Histamine ☐ EVH (Eucapnic voluntary hyperpnoea)

2.10 Were other biomarkers measured ?

◯ yes ◯ no

2.10.1 Which biomarkers were measured ?

1)
2)
3)
4)
5)

2.10.2 In which of the following media were they measured ?

☐ Serum ☐ Plasma ☐ Broncheoalveolar lavage ☐ Sputum ☐ Breath condensate ☐ Urine

2.11 Which other tests / measurements / examinations were performed ?
(please enter 'none' if not other were performed !)

1)
2)
3)
4)
5)

Severity assessment

3.1 Was phenotype/s severity assessed ?

◯ yes ◯ no

3.1.1 Could you briefly describe which guidelines criteria or methods were used to assess severity ?

G Socio-demographic characteristics and family history

Socio-demographic characteristics

1.1 Which is the individuals age range for the overall population ?

in Months : _____ to _____ **OR** in Years : _____ to _____

In the case of **cohort studies** or **clinical trials** with a period of follow-up the age range at baseline should be indicated (see D4.4 / D5.6)

1.2 Which was the sex distribution ?

Males (in %) : _____

Females (in %) : _____

1.3 Was ethnicity/ race collected ?

◯ yes ◯ no

1.4 Was parent education collected ?

◯ yes ◯ no

1.5 Were any of the socio-economic indicators collected ?

◯ yes ◯ no

Family history

Mother

2.1 Was mother's allergic disease/s history collected ?

◯ yes ◯ no

2.1.1. Which condition/s ?

1) _____
2) _____
3) _____
4) _____

2.1.2. How was/were this/these condition/s assessed (MR) ?

☐ Questionnaire ☐ IgE / Blood ☐ Skin Prick Test ☐ Not clear

Father

2.2 Was fathers's allergic disease/s history collected ?

◯ yes ◯ no

2.2.1. Which condition/s ?

1)
2)
3)
4)

2.2.2. How was/were this/these condition/s assessed (MR) ?

☐ Questionnaire ☐ IgE / Blood ☐ Skin Prick Test ☐ Not clear

H Phenotypes name

Phenotype	Was the phenotype definition provided ?	
1.	◯ yes	◯ no
2.	◯ yes	◯ no
3.	◯ yes	◯ no
4.	◯ yes	◯ no
5.	◯ yes	◯ no
6.	◯ yes	◯ no
7.	◯ yes	◯ no
8.	◯ yes	◯ no
9.	◯ yes	◯ no
10.	◯ yes	◯ no

I - Summary of study conclusions

1. Please summarize the study main conclusions as described in the manuscript

2. Taking into account the study relevance for phenotypes identification and the protocol inclusion/exclusion criteria, what do you think we should do with this study ?

- ◯ Include it
- ◯ Should be reviewed by another expert
- ◯ Exclude it

If you would **exclude** it, please provide an explanation in the comments below (L-4)

3. Does this study provide references of other studies that could be included for data extraction ?

- ◯ yes
- ◯ no

3.1 Please, provide the reference number/s for this/these study/ies:

Please either the **reference number** or the **name of first author** and **year** if the number is not available

4. Please include any additional comments which might be relevant for the review