

INTERNATIONAL STUDY OF ASTHMA AND ALLERGIES IN CHILDHOOD

NEWSLETTER – OCTOBER 2009

Dear ISAAC Colleagues and friends,

Welcome to another edition of the ISAAC Newsletter. We are delighted to report that The University of Auckland has granted us salary to employ Eamon Ellwood, ISAAC webmaster until the end of 2010.

ERS feedback

The 2009 ISAAC collaborators reception at the ERS in Vienna was a great success as always (see report). Thank you to all of you who attended and grateful thanks to Philippa for organising this from NZ.

ISAAC at the ATS

At the ATS in New Orleans 2010 (May 14-19) ISAAC will have a profile. We plan to hold an ISAAC collaborators meeting there and will keep you informed.

ISAAC monograph

We are now planning the ISAAC monograph (see later in this newsletter). We would greatly appreciate any comments/suggestions as to the design of this monograph especially if you have ideas around the design of the individual study centre pages. We will be preparing this over the next year. The monograph will be web based and as comprehensive as possible.

ISAAC website

The list of journals which have ISAAC publications and their impact factors is now accessible via the ISAAC website (<http://isaac.auckland.ac.nz>). Eamon has included his website report in this newsletter which includes a handy tip to having the ISAAC website address easily located as an addition to your usual homepage. Also in his report, Eamon requests your help in adding any publications from any of you that we do not have.

Funding

As you are aware, we are endeavouring to find global funding to support ISAAC Phase Five. But we have nothing new to report.

ISAAC Profiles

We have now come to the end of profiling the ISAAC Steering Committee members and hope that you have enjoyed these. We will continue with these profiles by selecting some National Coordinators.

ISAAC Steering Committee meeting

This is taking place in Merida, Mexico on 27 & 28 November, hosted by Dr Manuel Baeza-Bacab, the ISAAC National Coordinator for Mexico.

As always, we encourage you to let us know of news worthy events that can be shared with our ISAAC Colleagues via the newsletter. Having these newsletters available from the ISAAC website ensures easy access for everyone. ISAAC now has an entry in Wikipedia.

As this is our last newsletter for 2009, I would like to take this opportunity on behalf of the ISAAC Steering Committee and the International Data Centre, to wish you a happy and safe festive season.

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NEWSLETTER CONTENT:

- ◆ [Editorial: Innes Asher](#)
- ◆ [ISAAC Collaborators Reception at the ERS and Photos](#)
- ◆ [Profile – Carsten Flohr](#)
- ◆ [Profile – Francesco Forastiere](#)
- ◆ [ISAAC Website update](#)
Eamon Ellwood
- ◆ [Monograph outline](#)
- ◆ [Publication Check](#)
 - ◆ [ISAAC Phase One Publications](#)
 - ◆ [ISAAC Phase Two Publications](#)
 - ◆ [ISAAC Phase Three Publications](#)

Sub editor - P Ellwood

Warmest wishes *Innes*
Professor Innes Asher ONZM

ISAAC Collaborators Reception at the ERS

We were delighted to welcome ISAAC collaborators from Europe, North America, Africa, Asia and Australasia to the ISAAC reception held during the ERS congress in Vienna on 13 September. This was mainly a social occasion, but we took the opportunity to provide a brief update on the progress of ISAAC publications and the grant application submitted to the Gates Foundation.

It was evident that many of those who attended would like to participate in further ISAAC studies and the outcome of the Gates bid is awaited with eager anticipation. There are relatively few opportunities to recognise the truly global nature of the ISAAC collaboration and we were therefore impressed at the worldwide representation at this social event. Sadly, Bill Gates could not join us!

One slice of Viennese cake was left uneaten at the end of the reception. We reserved this (conceptually) for Philippa Ellwood who kindly did all the organisation from Auckland, on the other side of the world, and agreed to pay the bill....! Many thanks, Philippa.



David Strachan (report) and Erika von Mutius (pictures)

ISAAC Profile

Carsten Flohr



ISAAC Steering Committee member, London, UK

Not the first Prussian on the Steering Committee
I came from Hannover in '93
To the British Isles from Germany
To study in Oxford for a year initially.

After Paediatrics in Newcastle I joined Prof Hywel in 2002.
He taught me dermatology and how to write a systematic review.
It was Hywel who thought of the worms
And suggested I look at eczema and germs.
I've just moved on to London town
Now working in Paediatric Allergy in clinic and gown.

Having just moved from Nottingham to London, I am now working as Senior Lecturer and Consultant Paediatric Dermatologist at the Department of Paediatric Allergy and Dermatology, King's College London; the only place in the UK where paediatric allergy and dermatology have been joined in the same department. My research passion is the epidemiology of eczema. I am currently running a birth cohort study to see whether the early introduction of potentially allergenic food proteins at 3 months of life can reduce food allergy and other allergies. I am also very interested in the epidemiology of allergies in developing countries, which includes the relationship between helminth parasites and allergic disease. My private passions are my family – I am married and have three boys aged 8, 5, and 2 –, hill walking and my Northumbrian Pipes (see photograph).

ISAAC Profile

Francesco Forastiere



ISAAC Steering Committee member, Rome, Italy and National Coordinator for Italy

With a medical background in respiratory physiopathology and in occupational medicine, I received a degree of Master of Science in Epidemiology at the London School of Hygiene and Tropical Medicine and a PhD in Epidemiology at the University of Linköping in Sweden. Since 1982, I am with the Department of Epidemiology, Lazio Regional Health Authority in Rome.

I started clinical research on chronic respiratory disorders and asthma during my medical residency about 30 years ago. My career of epidemiologist started soon after with an investigation of large epidemic of Legionella disease in Italy. In 1983, I began to investigate the health risks, in particular lung cancer, associated with silica exposure among ceramic workers. Since then I conducted several mortality studies of workers employed in various occupations entailing a cancer risk (farmers, taxi drivers, policemen, seamen, and filling stations attendants) and evaluated the environmental and occupational factors associated with lung cancer. About 20 years ago, I started studies on the effects of indoor and outdoor pollution on respiratory health of children, with particular emphasis on the effects of passive smoking. I have been applying epidemiologic principles to a variety of environmental issues including the role of active and passive smoking on lung cancer, the health effects of air pollution in the general population, the effects of silica exposure on silicosis and other autoimmune disorders, the effects of pesticide exposure on human immune response, the role of residential radon exposure on lung cancer. Since 1994 I have been the Italian Coordinator of the International Study on Asthma and Allergies in Childhood (ISAAC) and I have learned a lot from this wonderful experience.

Website Report

Eamon Ellwood

The ISAAC website is intended to be a resource for you, the collaborators. As such the focus of the development is towards the publications section, and Phase Four, which already has a range of useful resources on it and will expand further.

We are continually maintaining the publications database, and adding new ISAAC papers as they are published or located, and continuing to search for full text articles (see below). Currently we have 404 journal articles in the database (as well as various manuals and other publications) and full text access for 268 of these. All other articles are linked to the abstract on the journals website (where the journal has a website). We have permission to display 4 articles that we are unable to locate pdf files for. If you are able to assist in locating these, please contact me (e.ellwood@auckland.ac.nz).

Anonymous. *Frequency of childhood asthma in various Italian regions. Results from ISAAC. Collaborating group of ISRDC (Italian Studies of Respiration Disorders in Childhood and the Environment. [in Italian].* Epidemiologia e Prevenzione 1997; 21(4): 235-42

Sestini P, De Sario M, Bugiani M, Bisanti L, Giannella G, Kaisermann D, Frasca G, Lombardi E, Petronio MG, Dell'Orco V, Indinnimeo L, Brunetti L, La Grutta S; Gruppo Collaborativo SIDRIA-2. *Frequency of asthma and allergies in Italian children and adolescents: results from SIDRIA-2 [in Italian].* Epidemiol Prev. 2005 Mar-Apr;29(2 Suppl):24-31. Italian.

Ferrari FP, Rosário Filho NA, Ribas LF, Calfe LG. *Prevalence of asthma in schoolchildren in Curitiba - ISAAC [Portuguese].* J Pediatr (Rio J). 1998 Jul-Aug;74(4):299-305.

Chereches-Panta P. Popa M. Iacob D. Muresan M. Dumitrascu D. Ichim G. Mirestean I. Nanulescu MV. *Prevalence of bronchial asthma in 7 years -old children in Cluj-Napoca, an ISAAC study. [Romanian].* Pneumologia. 2003 Apr-Jun;52(2):134-40.

Our aim is for the ISAAC publications database to be the definitive record of articles produced by ISAAC collaborators. As such our desire is to include all publications including local publications from centres published in local journals that are not yet indexed.

However, being based in New Zealand means that we can only find journals that are indexed by large journal services such as Medline, Scopus or ISI Web of Science. If you have published articles in local journals that are not indexed by these services, could you please check to see if your article is on the ISAAC website (the easiest way to do this is an author search using the advanced search page), and if not, please send it to me. (e.ellwood@auckland.ac.nz)

Also, when you publish a new article could you please send me the details, and preferably a pdf. While it is always a joy and a pleasant surprise when I am searching a journal (often for something unrelated to ISAAC) and discover a newly published ISAAC article, perhaps a more organised approach would be beneficial. If you have recently published an article could you please check to see that it is on the ISAAC website.

There is a new advanced search page (<http://isaac.auckland.ac.nz/publications/AdvSearch.html>). This allows you to combine a number of criteria in your searches. In addition to this the author field has an auto prompt function, so as you type your name (last name then initial) it will match with the list of authors in the database. If your name does not appear this means you are not in the database, and most likely neither is your article. Please contact me if this is the case. If you have any ideas for improvements please let me know.

Finally, there has been some discussion regarding co-authorship of ISAAC publications and study groups. The Steering Committee and the named study groups have now been added to the publications database, so that when you do an author search using the advanced search page, it will

now include any papers in which you are listed as an author in a study group. Please check to see that you have been listed correctly, and contact me if you have been included or omitted in error.

As always, we encourage you to make use of the publications facility (<http://isaac.auckland.ac.nz/publications/publicationsintro.html>) Please check to see that your articles have been included. If not please contact me at e.ellwood@auckland.ac.nz.

The Phase Four page (<http://isaac.auckland.ac.nz/phases/phasefour/phasefour.html>) is up and running and now has a comprehensive list of management guidelines for asthma, rhinitis and eczema. We wish to place management guidelines from as many countries and in as many languages as possible on the website. It is important that these guidelines are independent and as such are NOT sponsored by the pharmaceutical industry. If you know of any such guideline, we would like to hear from you and receive the link or a pdf of the guideline, with permission to use it. We have also added media links to the ISAAC website.

We aim for the Phase Four page to have a wide range of useful resources, so if you have any information that could be added to the website such as useful links to good research /resource sites, asthma information sites open journal sites etc, management recommendations or entry level ‘information pages’ about asthma, eczema and rhinitis, please forward them to me.

We are always looking for noteworthy information to go on our news and announcements page. This is intended to keep the ISAAC community up to date with what is happening in the ISAAC study more frequently than the bi-annual newsletter. If you have any noteworthy events or announcements, please let me know and I will add them to the webpage.

If you want to access the ISAAC website very quickly yet still keep your usual home page you can have your cake and eat it!

You may have noticed the ‘make ISAAC your home page’ button on the left side of the ISAAC home page. If you are using Internet Explorer 7 you can add ISAAC as a second homepage on a separate tab. (if you do not have IE7 you can get it here <http://www.microsoft.com/windows/internet-explorer/ie7/>)

To add ISAAC click on the ‘set as homepage’ button. This will bring up an option window with: Would you like to use the following as your home page?

<http://isaac.auckland.ac.nz>

- Use this webpage as your only home page
- Add this webpage to your home page tabs

Select the second option and click the yes button. Close internet explorer and re-open it.

You should have your institution homepage, and next to it near the top a tab saying ISAAC – The International Study etc. You can then easily access the ISAAC home page very easily, as often as you wish.

The ISAAC website is designed to be a resource for you. If you have any ideas or suggestions for improvements or new items you would like to see added, please contact me at e.ellwood@auckland.ac.nz. Your feedback is welcomed and appreciated.

Kind regards
Eamon Ellwood
ISAAC Webmaster
e.ellwood@auckland.ac.nz

THE ISAAC MONOGRAPH 1991-2010

The concept of this monograph is to capture all key aspects of ISAAC from ISAAC's beginning up to 2010. This will include contributions from each centre.

This will be an opportunity for the ISAAC collaborators who are not Principal Investigators to be properly acknowledged. We hope to include photographs, and anecdotes from fieldwork and other matters of interest from behind-the-scenes. It is time to dust off those old boxes of ISAAC records!

To ensure a comprehensive document we need to have up to date contact details for all the ISAAC collaborators. If you know of any collaborators whose emails have changed, please send these to Eamon Ellwood (e.ellwood@auckland.ac.nz).

The monograph will be web-based, so it will have more flexibility than a book. On the next page is a very preliminary outline of potential content. This list looks very "dry". We welcome novel ideas from you to make it really interesting.

If you have any ideas on how the monograph should look, or what the content should be, please send these to Eamon.



Draft outline of ISAAC Monograph
1991 - 2010

Contents

Acknowledgements
Contributors
Welcome to the Monograph from ISAAC
Congratulations!
Editor's Introduction
Glossary Abbreviations and Nicknames

Background, Development and Organisation of ISAAC

1. Background to the ISAAC Programme
2. ISAAC Hypotheses and Study Design
3. Organisation of ISAAC
4. ISAAC Steering Committee, Executive and Chair
5. ISAAC International Data Centre (IIDC) Phase One & Three
6. ISAAC International Data Centre Phase Two
7. Communications within ISAAC
8. ISAAC and the Prevention of disease
9. Reminiscences of ISAAC collaborators
10. Tribute to Stephan Weiland

Methods

11. Phase One
12. Phase Two
13. Phase Three
14. Quality Assurance
15. Ethics and Confidentiality
16. Data Transfer, checking and management
17. Centre reports
18. Statistical Analyses

Results

19. Phase One
20. Phase Two
21. Phase Three
22. Preparation of Manuscripts and Presentations
23. Making Graphics for ISAAC

ISAAC Graphics

Study Centres

24.(page for each centre)

Appendices

Complete list of ISAAC publications (incl. Symposiums, conferences and abstracts?)

Index

ISAAC Publications of worldwide analyses (updated October 2009)

ISAAC Phase One Publications (worldwide)

1.0 Preliminary Papers

- 1.1 ISAAC Phase One Manual. 2nd ed. Auckland and Münster: ISAAC Steering Committee, 1993.
- 1.2 Pearce NE, Weiland S, Keil U, Langridge P, Anderson HR, Strachan D, Bauman A, Young L, Gluyas P, Ruffin D, Crane J, Beasley R. Self-reported prevalence of asthma symptoms in children in Australia, England, Germany and New Zealand: an international comparison using the ISAAC written and video questionnaires. *Eur Resp J* 1993; 6: 1455-61. [249 citations]
- 1.3 Asher MI, Keil U, Anderson HR, Beasley R, Crane J, Martinez F, Mitchell EA, Pearce N, Sibbald B, Stewart AW, Strachan D, Weiland SK, Williams HC. International study of asthma and allergies in childhood (ISAAC): rationale and methods. *Eur Resp J* 1995; 8: 483-91. [909 citations]

2.0 Main Findings

- 2.1 Strachan D, Sibbald B, Weiland S, Ait-Khaled N, Anabwani G, Anderson HR, Asher MI, Beasley R, Björkstén B, Burr M, Clayton T, Crane J, Ellwood P, Keil U, Lai C, Mallol J, Martinez F, Mitchell E, Montefort S, Pearce N, Robertson C, Shah J, Stewart A, Von Mutius E, Williams H. Worldwide variations in prevalence of symptoms of allergic rhinoconjunctivitis in children: The International Study of Asthma and Allergies in Childhood (ISAAC). *Paediatric Allergy Immunology* 1997; 8: 161-76. [225 citations]
- 2.2 ISAAC Steering Committee (Writing Committee: Beasley R, Keil U, Von Mutius E, Pearce N). Worldwide variation in prevalence of symptoms of asthma, allergic rhinoconjunctivitis and atopic eczema: ISAAC. *Lancet* 1998; 351: 1225-32. [1564 citations]
- 2.3 Williams H, Robertson C, Stewart A, Ait-Khaled N, Anabwani G, Anderson HR, Asher MI, Beasley R, Björkstén B, Burr M, Clayton T, Crane J, Ellwood P, Keil U, Lai C, Mallol J, Martinez F, Mitchell E, Montefort S, Pearce N, Shah J, Sibbald B, Strachan D, von Mutius E, Weiland S. Worldwide variations in the prevalence of symptoms of atopic eczema in the international study of asthma and allergies in childhood. *J Allergy Clin Immunol* 1999; 103: 125-38. [294 citations]
- 2.4 ISAAC Steering Committee (Writing Committee: Asher MI, Anderson HR, Stewart AW, Crane J). Worldwide variations in the prevalence of asthma symptoms: International Study of Asthma and Allergies in Childhood (ISAAC). *Eur Respir J* 1998; 12: 315-35. [521 citations]

3.0 Other Overview Papers

- 3.1 Asher MI, Weiland SK, on behalf of the ISAAC Steering Committee. The International Study of Asthma and Allergies in Childhood. *Clin Exper Allergy* 1998; 28 (suppl 5): 52-66. [93 citations]
- 3.2 Beasley R, Ellwood P, Asher I. International patterns of the prevalence of pediatric asthma the ISAAC program. *Pediatric Clinics of North America* 2003; 50(3):539-53. [35 citations]
- 3.3 Lai C, Pearce N. The contribution of ISAAC to the understanding of asthma. *Leukotriene Res & Clin Rev* 2001; 2: 1-4.
- 3.4 Mallol J, Asher MI, Williams H, Clayton T, Beasley R. ISAAC Findings in children aged 14 years: an overview. *Allergy Clin Immunol Int* 1999; 11: 176-82.
- 3.5 von Mutius E. Epidemiology of asthma: ISAAC—International Study of Asthma and Allergies in Childhood. *Pediatr Allergy Immunol* 1996; 7(9 Suppl): 54-6. [5 citations]

4.0 Ecologic Analyses

- 4.1 Anderson HR, Gupta R, Kapetanakis V, Asher MI, Clayton T, Robertson CF, Strachan DP, and the ISAAC Steering Committee. International correlations between indicators of prevalence, hospital admissions and mortality for asthma in children. *Int J Epidemiol* 2008; 37: 573-582. [4 citations]
- 4.2 Anderson HR, Poloniecki JD, Strachan DP, Beasley R, Björkstén B, Asher MI. ISAAC Phase 1 Study Group. Immunization and symptoms of atopic disease in children: results from the International Study of Asthma and Allergies in Childhood. *Am J Publ Health* 2001; 91: 1126-9. [63 citations]
- 4.3 Burr ML, Emberlin JC, Treu R, Cheng S, Pearce N, and the ISAAC Phase I Study Group. Pollen counts in relation to the prevalence of rhinitis and asthma in the International Study of Asthma and

- Allergies in Childhood (ISAAC). *Clin Exper Allergy* 2003; 33: 1675-80. [28 citations]
- 4.4 Ellwood P, Asher MI, Björkstén B, Burr M, Pearce N, Robertson CF and the ISAAC Phase One Study Group. Diet and asthma, allergic rhinoconjunctivitis and atopic eczema symptom prevalence: an ecological analysis of the International Study of Asthma and Allergies in Childhood (ISAAC) data. *Eur Respir J* 2001; 17: 436-43. [68 citations]
- 4.5 Foliaki S, Björkstén B, Kildegaard-Nielsen S, von Mutius E, Cheng S, Pearce N. Antibiotic sales and the prevalence of symptoms of asthma, rhinitis and eczema in 13-14 year old children: The International Study of Asthma and Allergies in Childhood (ISAAC). *Int J Epidemiol* 2004; 33: 558-63. [19 citations]
- 4.6 Mitchell EA, Stewart AW, on behalf of the ISAAC Phase One Study Group. The ecological relationship of tobacco smoking to the prevalence of symptoms of asthma and other atopic diseases in children: The International Study of Asthma and Allergies in Childhood (ISAAC). *Eur J Epidemiol* 2001; 17: 667-73. [14 citations]
- 4.7 Shirtcliffe P, Weatherall M, Beasley R, on behalf of the ISAAC Phase I Study Group. An inverse correlation between estimated tuberculosis notification rates and asthma symptoms. *Respirology* 2002; 7: 153-5. [15 citations]
- 4.8 Stewart AW, Mitchell EA, Pearce N, Strachan DP, Weiland SK, on behalf of the ISAAC Steering Committee. The relationship of per capita gross national product to the prevalence of symptoms of asthma and other atopic diseases in children (ISAAC). *Int J Epidemiol* 2001; 30: 173-9. [51 citations]
- 4.9 von Mutius E, Pearce N, Beasley R, Cheng S, von Ehrenstein O, Björkstén B, Weiland S, on behalf of the ISAAC Steering Committee. International patterns of tuberculosis and the prevalence of symptoms of asthma, rhinitis and eczema. *Thorax* 2000; 55(6): 449-453. [107 citations]
- 4.10 Weiland SK, von Mutius E, Hüsing A, Asher MI on behalf of the ISAAC Steering Committee. Intake of trans fatty acids and prevalence of childhood asthma and allergies in Europe. *Lancet* 1999; 353: 2040-41. [77 citations]
- 4.11 Weiland S, Hüsing A, Strachan DP, Pearce N, on behalf of the ISAAC Study Group and ISAAC Europe. Climate and the prevalence of symptoms of asthma, allergic rhinoconjunctivitis and atopic eczema in children. *Occup Environ Med* 2004; 61: 609-15. [44 citations]

Other Papers

- 5.1 Crane J, Mallol J, Beasley R, Stewart A, Asher MI, on behalf of the International Study of Asthma and Allergies in Childhood (ISAAC) Phase I study group. Agreement between written and video questions for comparing asthma symptoms in ISAAC. *Eur Respir J* 2003; 21: 455-61. [35 citations]
- 5.2 Pearce N, Sunyer J, Cheng S, Chinn S, Björkstén B, Burr M, Keil U, Anderson HR, Burney P, on behalf of the ISAAC Steering Committee and the European Community Respiratory Health Survey. Comparison on asthma prevalence in the ISAAC and the ECRHS. *Eur Resp J* 2000; 16: 420-6. [72 citations]

ISAAC Phase Two Publications (worldwide)

1.0 Preliminary Papers

- 1.1 Von Mutius E, Weiland SK, Keil U, and the ISAAC Steering Committee. The International Study of Asthma and Allergies in Childhood (ISAAC): study design and methods of Phase II. *Allergologie* 1999; 22: 283-288. [1 citation]
- 1.2 Weiland SK, von Mutius E, Keil U, on behalf of the ISAAC Steering Committee. The International Study of Asthma and Allergies in Childhood (ISAAC): rational methods and outlook. *Allergologie* 1999; 22: 275-282. [2 citations]
- 1.3 Weiland SK, Björkstén B, Brunekreef B, Cookson WOC, von Mutius E, Strachan DP, and the ISAAC Phase II Study Group. Phase II of the International Study of Asthma and Allergies in Childhood (ISAAC II): rationale and methods. *Eur Respir J* 2004; 24: 406-412. [74 citations]

2.0 Main Findings

- 2.1 Wienmayr G, Weiland SK, Björkstén B, Brunekreef B, Büchele G, Cookson WO, Garcia-Marcos L, Gotua M, Gratziau C, van Hage M, von Mutius E, Riiikjäv M-A, Rzehak P, Stein RT, Strachan

- DP, Tsanakas J, Wickens K, Wong GW, and the ISAAC Phase Two Study Group. Atopic sensitization and the international variation of asthma symptom prevalence in children. *Am J Respir Crit Care Med* 2007; 176: 565-74. [41 citations]
- 2.2 Flohr C, Weiland SK, Weinmayr G, Björkstén B, Brabäck L, Brunekreef B, Büchele G, Clausen M, Cookson WOC, von Mutius E, Strachan DP, Williams HC, and the ISAAC Phase Two Study Group. The role of atopic sensitization in flexural eczema: findings from the International Study of Asthma and Allergies in Childhood (ISAAC) Phase Two. *J Allergy Clin Immunol* 2008; 121: 141-7. [8 citations]
- 2.3 Weinmayr G, Forastiere F, Weiland S, Rzehak P, Abramidze T, Annesi-Maesano I, Björkstén B, Brunekreef B, Büchele B, Cookson WOC, von Mutius E, Pistelli R, Strachan DP, and the ISAAC Phase Two Study Group. International variation in prevalence of rhinitis and its relationship with sensitization to perennial and seasonal allergens. *Eur Respir J* 2008; 32: 1250-1261. [3 citations]
- 2.4 Gehring U, Strikwold M, Schram-Bijkerk D, Weinmayr G, Genuneit J, Nagel G, Wickens K, Siebers R, Crane J, Doekes G, Di Domenicantonio R, Nilsson L, Priftanji A, Sandin A, El-Sharif N, Strachan D, van Hage M, von Mutius E, Brunekreef B and the ISAAC Phase Two study-group. Asthma and allergic symptoms in relation to house dust endotoxin: Phase Two of the International Study on Asthma and Allergies in Childhood (ISAAC II). *Clin Exp Allergy* 2008; 38: 1911-1920. [3 citations]
- 2.5 Flohr C, Weinmayr G, Weiland SK, Addo-Yobo E, Annesi-Maesano I, Bjorksten B, Braback L, Buchele G, Chico M, Cooper P, Clausen M, El Sharif B, Martinez Gimeno A, Mathur RS, von Mutius E, Morales Suarez-Varela M, **Pearce N**, Svabe V, Wong GWK, Yu M, Zhong NS, Williams HC, and the ISAAC Phase Two Study Group. How well do questionnaires perform compared with physical examination in detecting flexural eczema? Findings from the International Study of Asthma and Allergies in Childhood (ISAAC) Phase Two. *Br J Dermatol* 2009; 161: 846-853. [0 citations]
- 2.6 Nagel G, Buchele G, Weinmayr G, Bjorksten B, Chen Y-Z, Wang H, Nystad W, Saraclar Y, Braback L, Batlles-Garrido J, Garcia-Hernandez G, Weiland SK, and the ISAAC Phase Two Study Group. Effect of breastfeeding on asthma, lung function and bronchial hyperreactivity in ISAAC Phase II. *Eur Respir J* 2009; 33: 993-1002. [0 citations]
- 2.7 Genuneit J, Cantelmo JL, Weinmayr G, Wong GWK, Cooper PJ, Riikjäv MA, Gotua M, Kabesch M, von Mutius E, Forastiere F, Crane J, Nystad W, El Sharif N, Batllés-Garrido J, García-Marcos L, García-Hernández G, Morales Suárez-Varela M, Nilsson L, Bråbäck L, Saraclar Y, Weiland SK, Cookson WOC, Strachan DP, Moffatt MF, and the ISAAC Phase Two Study Group. A multi-centre study of candidate genes for wheeze and allergy. The International Study of Asthma and Allergies in Childhood Phase Two. *Clin Exp Allergy*, in press

ISAAC Phase Three Publications (worldwide)

1.0 Preliminary Papers

- 1.1 Ellwood P, Asher MI, Beasley R, Clayton TO, Stewart AW, on behalf of the ISAAC Steering Committee and the ISAAC Phase Three Study Group. *ISAAC Phase Three Manual*. Auckland. July 2000. ISBN 0-473-06910-5.
- 1.2 Ellwood P, Asher MI, Beasley R, Clayton TO, Stewart AW and the ISAAC Steering Committee. International Study of Asthma and Allergies in Childhood (ISAAC II): Phase III rationale and methods. *Int J Tuberculosis Lung Dis* 2005; 9: 10-6. [61 citations]

2.0 Main Findings

- 2.1 Asher MI, Montefort S, Bjorksten B, Lai CKW, Strachan D, Weiland SK, Williams H, and the ISAAC Phase Three Study Group. Worldwide trends in the prevalence of symptoms of asthma, allergic rhinoconjunctivitis and eczema in childhood – ISAAC Phases and Three repeat multicountry cross-sectional surveys. *Lancet* 2006; 368: 733-43. [305 citations]
- 2.2 Pearce N, Ait-Khaled N, Beasley R, Mallol J, Keil U, Mitchell E, Robertson C, and the ISAAC Phase Three Study group. Worldwide trends in the prevalence of asthma symptoms: Phase Three

of the International Study of Asthma and Allergies in Childhood (ISAAC). *Thorax* 2007; 62: 757-62. [47 citations]

- 2.3 Björkstén B, Clayton T, Ellwood P, Stewart A, Strachan D, and the ISAAC Phase Three Study Group. Worldwide trends for symptoms of rhinoconjunctivitis: Phase Three of the International Study of Asthma and Allergies in Childhood. *Paediatric Allergy Immunol* 2008; 19: 110-24. [11 citations]
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3.0 Environmental Questionnaire Analyses

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4.0 Other papers

- 4.1 Ellwood P, Williams H, Ait-Khaled, Björkstén B, Robertson C, and the ISAAC Phase Three Study Group. Translation of questions: the International Study of Asthma and Allergies in Childhood experience. *Int J Tuberc Lung Dis* 2009; 13: 1174-1182. [0 citations]

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