

Atopic eczema in children

management of atopic eczema in children
from birth up to the age of 12 years

Clinical Guideline

December 2007

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Atopic eczema in children

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from birth up to the age of 12 years

National Collaborating Centre for Women's
and Children's Health

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Diagnosis

Reference ID	Bibliographic information	Reason for rejecting study
1	Authors: Akdis CA;Akdis M;Bieber T;Bindslev-Jensen C;Boguniewicz M;Eigenmann P;Hamid Q;Kapp A;Leung DYM;Lipozencic J;Luger TA;Muraro A;Novak N;Platts-Mills TAE;Rosenwasser L;Scheynius A;Simons FER;Spergel J;Turjanmaa K;Wahn U;Weidinger S;Werfel T;Zuberbier T;. Title: Diagnosis and treatment of atopic dermatitis in children and adults: European Academy of Allergology and Clinical Immunology/American Academy of Allergy, Asthma and Immunology/PRACTALL consensus report. Journal Name: Allergy. Year: 2006	Background information.
2	Authors: Anderson ML;. Title: Atopic dermatitis – more than a simple skin disorder. Journal Name: Journal of the American Academy of Nurse Practitioners. Year: 2005	Case study - background information.
3	Authors: Barthelette S;Rosenzweig L;Cayce KA;Graham GF;Feldman SR;. Title: Common dermatologic presentations: The red face. Journal Name: Journal of Clinical Outcomes Management. Year: 2004	Paper mentions atopic eczema in children (1 case study of several), but is not about diagnosis per se.
4	Authors: Beltrani VS;. Title: The clinical spectrum of atopic dermatitis.. Journal Name: Journal of Allergy and Clinical Immunology. Year: 1999 Sep	Narrative review/ opinion.
5	Authors: Ben-Gashir MA;Hay RJ;. Title: Reliance on erythema scores may mask severe atopic dermatitis in black children compared with their white counterparts. Journal Name: British Journal of Dermatology. Year: 2002 Nov	Study relevant to severity question and is included in that section, but not relevant to diagnostic criteria.
6	Authors: Benn CS;Benfeldt E;Andersen PK;Olesen AB;Melbye M;Bjorksten B;. Title: Atopic dermatitis in young children: diagnostic criteria for use in epidemiological studies based on telephone interviews. Journal Name: Acta Dermato-Venereologica. Year: 2003	Study does not cover the use of diagnostic criteria in the assessment of children; rather, it focuses on an approach to epidemiological studies.
7	Authors: Bullus S;Gordon K;Muir J;Van OJ;. Title: Dermatology assessment tool. Journal Name: Paediatric Nursing. Year: 1998	Not relevant to the diagnostic criteria question - the paper describes the development of an assessment tool.
8	Authors: Cheigh NH;. Title: Managing a common disorder in children: Atopic dermatitis.. Journal Name: Journal of Pediatric Health Care. Year: 2003 Mar	A continuing education article about atopic eczema, which does not cover diagnosis.
9	Authors: Diepgen TL;Sauerbrei W;Fartasch M;. Title: Development and validation of diagnostic scores for atopic dermatitis incorporating criteria of data quality and practical usefulness. Journal Name: Journal of Clinical Epidemiology. Year: 1996 Sep	Population aged 10 to 55, median about 22, therefore outside the scope of the guideline.
10	Authors: Dotterud LK;Falk ES;. Title: Evaluation of a self-administered questionnaire on atopic diseases: Discrepancy between self-reported symptoms and objective signs. Journal Name: European Journal of Public Health. Year: 2000	Population study regarding atopy, not just atopic eczema. Does not address guideline question.
11	Authors: Eigenmann PA;. Title: Clinical features and diagnostic criteria of atopic dermatitis in relation to age. Journal Name: Pediatric Allergy and Immunology, Supplement. Year: 2001	Narrative review - background information only.
12	Authors: Firooz A;Davoudi SM;Farahmand AN;Majdzadeh R;Kashani MN;Dowlati Y;. Title: Validation of the diagnostic criteria for atopic dermatitis. Journal Name: Archives of Dermatology. Year: 1999	This study included children and adults in Iran; 8% of the 416 people studied were aged under 10 years. No demographic data were given for the children other than gender and whether they were older or younger than 4 and 10 yrs. The diagnosis reached by an observer (medical student) completing questionnaire listing the UK working party criteria was compared with the diagnosis of a dermatologist. Sensitivity and specificity of the UK working party criteria are quoted although it is not explicit how these were calculated. Controls were patients attending the

Reference ID	Bibliographic information	Reason for rejecting study
13	Authors: Grin CM;. Title: Photo quiz: self-test your diagnostic acumen. Can you identify these disorders in black skin?. Journal Name: Consultant. Year: 2001	dermatology clinic who had a diagnosis other than eczema. Article of background interest only.
14	Authors: Gu H;Chen XS;Chen K;Yan Y;Jing H;Chen XQ;Shao CG;Ye GY;. Title: Evaluation of diagnostic criteria for atopic dermatitis: validity of the criteria of Williams et al. in a hospital-based setting. Journal Name: British Journal of Dermatology. Year: 2001 Sep	The study evaluated the sensitivity, specificity, PPV and NPV of the UK Working party criteria vs. the Hanifin and Rajka criteria in children and adults in China. 72% of the population was aged 12 years or under, but results were not reported separately for this age group, therefore the study was excluded.
15	Authors: Hanifin JM;. Title: Diagnostic criteria for atopic dermatitis: consider the context.. Journal Name: Archives of Dermatology. Year: 1999 Dec	Letter regarding ref ID 33158 - background information only.
16	Authors: Hebert AA;. Title: Laboratory evaluation of the child with recalcitrant eczema. Journal Name: Dermatologic Clinics. Year: 1994	No useful information regarding diagnostic criteria.
17	Authors: Johnke H;Vach W;Norberg LA;Bindslev-Jensen C;Host A;Andersen KE;. Title: A comparison between criteria for diagnosing atopic eczema in infants. Journal Name: British Journal of Dermatology. Year: 2005 Aug	The aim of this study was to determine the prevalence and cumulative incidence of atopic eczema in children using four different criteria (Hanifin and Rajka, Schultz-Larsen, DARC, and the UK criteria). Does not directly address the diagnosis question in the guideline.
18	Authors: Kang KF;Tian RM;. Title: Criteria for atopic dermatitis in a Chinese population. Journal Name: Acta Dermato-Venereologica. Year: 1989	This short report describes epidemiological data but generally lacks sufficient detail to be useful.
19	Authors: Kanwar AJ;Dhar S;. Title: Frequency and significance of major and minor clinical features of atopic dermatitis.. Journal Name: Dermatology. Year: 1995	No useful information regarding diagnostic criteria.
20	Authors: Kanwar AJ;Dhar S;Kaur S;. Title: Evaluation of minor clinical features of atopic dermatitis. Journal Name: Pediatric Dermatology. Year: 1991 Jun	Study considers the incidence of some of Hanifin and Rajka's minor diagnostic criteria in children/adolescents with and without eczema. Study of historical interest only because Hanifin and Rajka's criteria no longer used.
21	Authors: Kim KH;Chung JH;Park KC;. Title: Clinical evaluation of minor clinical features of atopic dermatitis. Journal Name: Annals of Dermatology. Year: 1993	Study considers the incidence of some of Hanifin and Rajka's minor diagnostic criteria in children/adolescents with and without eczema. Study of historical interest only because Hanifin and Rajka's criteria no longer used.
22	Authors: Kramer U;Schafer T;Behrendt H;Ring J;. Title: The influence of cultural and educational factors on the validity of symptom and diagnosis questions for atopic eczema. Journal Name: British Journal of Dermatology. Year: 1998 Dec	More relevant to the epidemiology section than to the diagnostic criteria question.
23	Authors: Mevorah B;Frenk E;Wietlisbach V;Carrel CF;. Title: Minor clinical features of atopic dermatitis. Evaluation of their diagnostic significance. Journal Name: Dermatologica. Year: 1988	Study considers the incidence of some of Hanifin and Rajka's minor diagnostic criteria in children/adolescents with and without eczema. Study of historical interest only because Hanifin and Rajka's criteria no longer used.
24	Authors: Nagaraja;Kanwar AJ;Dhar S;Singh S;. Title: Frequency and significance of minor clinical features in various age-related subgroups of atopic dermatitis in children. Journal Name: Pediatric Dermatology. Year: 1996 Jan	Study considers the incidence of some of Hanifin and Rajka's minor diagnostic criteria in children/adolescents with and without eczema. Study of historical interest only because Hanifin and Rajka's criteria no longer used.
25	Authors: Olesen AB;Bang K;Juul S;Thestrup-Pedersen K;. Title: Development and validation of a questionnaire for diagnosing atopic dermatitis. Journal Name: Acta Dermato-Venereologica. Year: 2001	The study describes the validation of a Danish questionnaire developed from the UK Working Party criteria (the % agreement between the two is reported). The study does not directly address the diagnosis question in the guideline.
26	Authors: Perlman HH;. Title: Helpful diagnostic clues for differentiation of atopic dermatitis from seborrheic dermatitis. Journal Name: Annals of Allergy. Year: 1965 Dec	General discussion around clinical features.

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27	Authors: Rothe MJ;Grant-Kels JM;. Title: Atopic dermatitis: an update.. Journal Name: Journal of the American Academy of Dermatology. Year: 1996 Jul	Narrative review, background information only.
28	Authors: Rothe MJ;Grant-Kels JM;. Title: Diagnostic criteria for atopic dermatitis.. Journal Name: Lancet. Year: 1996 Sep 21	Commentary - background information only.
29	Authors: Sturgill S;Bernard LA;. Title: Atopic dermatitis update. Journal Name: Current Opinion in Pediatrics. Year: 2004	Narrative review - background information only.
30	Authors: Svensson A;Edman B;Moller H;. Title: A diagnostic tool for atopic dermatitis based on clinical criteria. Journal Name: Acta dermato-venereologica Supplementum. Year: 1985	Age unclear, and lack of demographic data. The 47 patients were said to be divided into those aged over and under 15 years.
31	Authors: Thompson MM;Tofte SJ;Simpson EL;Hanifin JM;. Title: Patterns of care and referral in children with atopic dermatitis and concern for food allergy. Journal Name: Dermatologic Therapy. Year: 2006	Not relevant to diagnosis - but is relevant to question 6 (food allergy).
32	Authors: Williams HC, Burney PGJ, Strachan D et al. Title: The UK Working Party' diagnostic criteria for atopic dermatitis. II. Observer variation of clinical diagnosis and signs of atopic dermatitis. Journal Name: Br J Dermatol. Year: 1994	The study considered reliability (repeatability) of the UK Working Party criteria; 15 patients were included, of which 7 were children. However, no demographic data were given for the 7 children therefore it is not known whether they fall within the age range of this guideline.
33	Authors: Wisuthsarewong W;Viravan S;. Title: Diagnostic criteria for atopic dermatitis in Thai children. Journal Name: Journal of the Medical Association of Thailand. Year: 2004 Dec	Study describes the development of diagnostic criteria in Thai children. Not considered to be relevant to the diagnosis question.
34	Authors: Yetman RJ;Parks D;. Title: Practice guidelines. Diagnosis and management of atopic dermatitis. Journal Name: Journal of Pediatric Health Care. Year: 2002	These practice guidelines cover history and physical examination but not diagnostic criteria for atopic eczema.

Assessment of severity, psychological and psychosocial wellbeing and quality of life

Reference ID	Bibliographic information	Reason for rejecting study
35	Authors: Amon U;Mommel U;Stoll R;Amon S;. Title: Comparison of severity scoring of atopic dermatitis values and serum levels of eosinophil cationic protein and mast cell tryptase for routine evaluation of atopic dermatitis. Journal Name: Acta Dermato-Venereologica. Year: 2000 Jul	Serology test not severity scoring system. May be relevant for clinical tests question.
36	Authors: Angelova-Fischer I;Bauer A;Hipler UC;Petrov I;Kazandjieva J;Bruckner T;Diepgen T;Tsankov N;Williams M;Fischer TW;Elsner P;Fluhr JW;. Title: The objective severity assessment of atopic dermatitis (OSAAD) score: validity, reliability and sensitivity in adult patients with atopic dermatitis. Journal Name: British Journal of Dermatology. Year: 2005 Oct	Adults only
37	Authors: Atakan N;Erdem C;. Title: The efficacy, tolerability and safety of a new oral formulation of Sandimmun--Sandimmun Neoral in severe refractory atopic dermatitis. Journal Name: Journal of the European Academy of Dermatology and Venereology. Year: 1998 Nov	Adults only. Paper referenced in systematic review
38	Authors: Bahmer FA;. Title: ADASI score: atopic dermatitis area and severity index. Journal Name: Acta Dermato-Venereologica. Year: 1992	Discussion only. Paper referenced in systematic review
39	Authors: Bahmer FA;Schafer J;Schubert HJ;. Title: Quantification of the extent and the severity of atopic dermatitis: the ADASI score. Journal Name: Archives of Dermatology. Year: 1991 Aug	Discussion only. Paper referenced in systematic review
40	Authors: Ben-Gashir MA;. Title: Relationship between quality of life and disease severity in atopic dermatitis/eczema syndrome during childhood. [40 refs]. Journal Name: Current Opinion in Allergy and Clinical Immunology. Year: 2003 Oct	Non systematic review
41	Authors: Ben-Gashir MA;Seed PT;Hay RJ;. Title: Predictors of atopic dermatitis severity over time. Journal Name: Journal of the American Academy of Dermatology. Year: 2004 Mar	Not relevant to question, as not looking at measuring severity May be relevant for epidemiology question.
42	Authors: Berth-Jones J;Graham-Brown RA;. Title: Placebo-controlled trial of essential fatty acid supplementation in atopic dermatitis.[see comment][erratum appears in Lancet 1993 Aug 28;342(8870):564]. Journal Name: Lancet. Year: 1993 Jun 19	Paper used as background only Children and adults, average age > 12
43	Authors: Berth-Jones J;Graham-Brown RA;Marks R;Camp RD;English JS;Freeman K;Holden CA;Rogers SC;Oliwiecki S;Friedmann PS;Lewis-Jones MS;Archer CB;Adriaans B;Douglas WS;Allen BR;. Title: Long-term efficacy and safety of cyclosporin in severe adult atopic dermatitis. Journal Name: British Journal of Dermatology. Year: 1997 Jan	Adults only. Paper referenced in systematic review
44	Authors: Berth-Jones J;Thompson J;Graham-Brown RA;. Title: Evening primrose oil and atopic eczema.. Journal Name: Lancet. Year: 1995 Feb 25	Paper used as background only Discussion only. Paper referenced in systematic review
45	Authors: Bianchi B;. Title: Practical application of the scorad index in a clinical trial on children and adults with atopic dermatitis. Abstract 4131. The 19th World Congress of Dermatology 15-20 June, 1997 Sydney, Australia. Journal Name: The Australasian journal of dermatology. Year: 1997	Lots more Adults than children - responsiveness to change study
46	Authors: Bland JM;Altman DG;. Title: Statistical methods for assessing agreement between two methods of clinical measurement. Journal Name: Lancet. Year: 1986 Feb 8	Paper used as background only as no data

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Reference ID	Bibliographic information	Reason for rejecting study
47	Authors: Bodemer C;. Title: How should severe and chronic atopic dermatitis in children be managed? [French]. Journal Name: Annales de Dermatologie et de Venerologie. Year: 2005	Not relevant to question, as not looking at measuring severity
25	Authors: Braae OA;Bang K;Juul S;Thestrup-Pedersen K;. Title: Development and validation of a questionnaire for diagnosing atopic dermatitis. Journal Name: Acta Dermato-Venerologica. Year: 2001 Aug	Not relevant to question, as not looking at measuring severity. May be relevant for diagnosis question.
48	Authors: Breneman DL;Hanifin JM;Berge CA;Keswick BH;Neumann PB;. Title: The effect of antibacterial soap with 1.5% triclocarban on Staphylococcus aureus in patients with atopic dermatitis. Journal Name: Cutis. Year: 2000 Oct	Adults
49	Authors: Broberg A;Kalimo K;Lindblad B;Swanbeck G;. Title: Parental education in the treatment of childhood atopic eczema. Journal Name: Acta Dermato-Venerologica. Year: 1990	Paper used as background only as no data
50	Authors: Broberg A;Svensson A;Borres MP;Berg R;. Title: Atopic dermatitis in 5-6-year-old Swedish children: cumulative incidence, point prevalence, and severity scoring. Journal Name: Allergy. Year: 2000 Nov	Not relevant to question, as not looking at how to measure severity. May be relevant for epidemiology question.
51	Authors: Cavagni G;Caffarelli C;Facchetti F;Brugnoni D;Notarangelo LD;Tosoni C;Altobelli R;. Title: Cutaneous CD30+ cells in children with atopic dermatitis. Journal Name: International Archives of Allergy and Immunology. Year: 2000 Mar	Serology test not severity scoring system. May be relevant for clinical tests question.
52	Authors: Charman C;. Title: Measuring atopic eczema severity: improving outcome measures for research and clinical practice.. Journal Name: . Year: 2005	Paper used as background only as no data
53	Authors: Cohen JA;. Title: A coefficient of agreement for nominal scales. Journal Name: Educational and Psychological Measurement. Year: 1960	Paper used as background only as no data
54	Authors: Cork MJ;Britton J;Butler L;Young S;Murphy R;Keohane SG;. Title: Comparison of parent knowledge, therapy utilization and severity of atopic eczema before and after explanation and demonstration of topical therapies by a specialist dermatology nurse. Journal Name: British Journal of Dermatology. Year: 2003 Sep	Paper used as background only as no data
55	Authors: Costa C;Rilliet A;Nicolet M;Saurat JH;. Title: Scoring atopic dermatitis: the simpler the better?. Journal Name: Acta Dermato-Venerologica. Year: 1989	Paper used as background only Adults only. Paper referenced in systematic review
56	Authors: Der-Petrossian M;Seeber A;Honigsmann H;Tanew A;. Title: Half-side comparison study on the efficacy of 8-methoxypsoralen bath-PUVA versus narrow-band ultraviolet B phototherapy in patients with severe chronic atopic dermatitis. Journal Name: British Journal of Dermatology. Year: 2000 Jan	Study in adults
57	Authors: Dhar S;Malakar R;Chattopadhyay S;Dhar S;Banerjee R;Ghosh A;. Title: Correlation of the severity of atopic dermatitis with absolute eosinophil counts in peripheral blood and serum IgE levels. Journal Name: Indian Journal of Dermatology, Venereology and Leprology. Year: 2005 Jul	Serology test not severity scoring system. May be relevant for clinical tests question.
58	Authors: Emerson RM;Charman CR;Williams HC;Allen BR;. Title: Modified Rajka and Langeland severity assessment (MRSA) for atopic dermatitis: a useful tool for epidemiological studies. Journal Name: Br J Dermatol. Year: 1998	Abstract study reported in a full article 59
60	Authors: Emerson RM;Williams HC;Allen BR;. Title: Severity distribution of atopic dermatitis in the community and its relationship to secondary referral. Journal Name: British Journal of Dermatology. Year: 1998	Not relevant to question, as not looking at measuring severity. May be relevant for referral and epidemiology questions.
61	Authors: Finlay AY;. Title: Measurement of disease activity and outcome in atopic dermatitis. [51 refs]. Journal Name: British Journal of Dermatology. Year: 1996 Oct	Discussion only. Paper referenced in systematic review
62	Authors: Frezzolini A;Paradisi M;Zaffiro A;Provini A;Cadoni S;Ruffelli M;De PO;. Title: Circulating interleukin 16 (IL-16) in children with atopic/eczema dermatitis syndrome (AEDS): a novel serological marker of disease activity. Journal Name: Allergy. Year: 2002 Sep	Serology test not severity scoring system. May be relevant for clinical tests question.
63	Authors: Friedman JY;Reed SD;Weinfurt KP;Kahler KH;Walter EB;Schulman KA;. Title: Parents' reported preference scores for childhood atopic dermatitis disease states. Journal Name: BMC Pediatrics. Year: 2004 Oct 18	Not relevant to question, as not looking at measuring severity. May be relevant for quality of life question.
64	Authors: Furue M;Sugiyama H;Tsukamoto K;Ohtake N;Tamaki K;. Title: Serum soluble IL-2 receptor (sIL-2R) and eosinophil cationic protein (ECP) levels in atopic dermatitis. Journal Name: Journal of Dermatological Science. Year: 1994 Apr	Serology test not severity scoring system. May be relevant for clinical tests question.

Reference ID	Bibliographic information	Reason for rejecting study
65	Authors: Granlund H;Erkko P;Sinisalo M;Reitamo S;. Title: Cyclosporin in atopic dermatitis: time to relapse and effect of intermittent therapy. Journal Name: British Journal of Dermatology. Year: 1995 Jan	Adults only. Paper referenced in systematic review
66	Authors: Hanifin JM;. Title: Standardized grading of subjects for clinical research studies in atopic dermatitis: workshop report. Journal Name: Acta Dermato-Venereologica. Year: 1989	Discussion only. Paper referenced in systematic review
67	Authors: Hirai S;Kageshita T;Kimura T;Tsujisaki M;Okajima K;Imai K;Ono T;. Title: Soluble intercellular adhesion molecule-1 and soluble E-selectin levels in patients with atopic dermatitis. Journal Name: British Journal of Dermatology. Year: 1996 Apr	Children and adults
68	Authors: Hon K;Leung TF;Wong Y;Lam WK;Guan DQ;Ma KC;Sung YT;Fok TF;Leung PC;. Title: A pentaherbs capsule as a treatment option for atopic dermatitis in children: an open-labeled case series. Journal Name: American Journal of Chinese Medicine. Year: 2004	Paper used as background only as no data
69	Authors: Hon KL;Leung TF;Ma KC;Li AM;Wong Y;Fok TF;. Title: Serum levels of cutaneous T-cell attracting chemokine (CTACK) as a laboratory marker of the severity of atopic dermatitis in children. Journal Name: Clinical and Experimental Dermatology. Year: 2004 May	Serology test not severity scoring system. May be relevant for clinical tests question.
70	Authors: Hon KL;Leung TF;Ma KC;Wong CK;Wan H;Lam CW;. Title: Serum concentration of IL-18 correlates with disease extent in young children with atopic dermatitis. Journal Name: Pediatric Dermatology. Year: 2004 Nov	Serology test not severity scoring system. May be relevant for clinical tests question.
71	Authors: Ikezawa Z;Ikebe T;Ogura H;Odajima H;Kurosaka F;Komatu H;Sase K;Suga C;Sugiuchi M;Suguro H;. Title: Mass trial of hypoallergenic rice (HRS-1) produced by enzymatic digestion in atopic dermatitis with suspected rice allergy. HRS-1 Research Group. Journal Name: Acta Dermato-Venereologica. Year: 1992	Study in children and adults average age > 12
72	Authors: Kagi MK;Joller-Jemelka H;Wuthrich B;. Title: Correlation of eosinophils, eosinophil cationic protein and soluble interleukin-2 receptor with the clinical activity of atopic dermatitis. Journal Name: Dermatology. Year: 1992	Adults only. Paper referenced in systematic review
73	Authors: Kanthraj GR;. Title: Computer aided design mapping for SCORAD index in atopic dermatitis--accessible and economical.[see comment][comment]. Journal Name: Pediatric Allergy and Immunology. Year: 2005 Mar	Narrative discussion only
74	Authors: Kowalzik L;Kleinheinz A;Weichenthal M;Neuber K;Kohler I;Grosch J;Lungwitz G;Seegeberg C;Ring J;. Title: Low dose versus medium dose UV-A1 treatment in severe atopic eczema. Journal Name: Acta Dermato-Venereologica. Year: 1995 Jan	Adults only. Paper referenced in systematic review
75	Authors: Krutmann J;Diepgen TL;Luger TA;Grabbe S;Meffert H;Sonnichsen N;Czech W;Kapp A;Stege H;Grewe M;Schopf E;. Title: High-dose UVA1 therapy for atopic dermatitis: results of a multicenter trial. Journal Name: Journal of the American Academy of Dermatology. Year: 1998 Apr	Study in adults
76	Authors: Kunz B;Oranje AP;Labreze L;Stalder JF;Ring J;Taieb A;. Title: Clinical validation and guidelines for the SCORAD index: consensus report of the European Task Force on Atopic Dermatitis. Journal Name: Dermatology. Year: 1997	Paper used as background only No numerical out comes were reported - description of using SCORAD
77	Authors: La Grutta S;Richiusa P;Pizzolanti G;Mattina A;Pajno GB;Citarrella R;Passalacqua G;Giordano C;. Title: CD4(+)IL-13(+) cells in peripheral blood well correlates with the severity of atopic dermatitis in children. Journal Name: Allergy. Year: 2005 Mar	Serology test not severity scoring system. May be relevant for clinical tests question.
78	Authors: Laske N;Niggemann B;. Title: Does the severity of atopic dermatitis correlate with serum IgE levels?. Journal Name: Pediatric Allergy and Immunology. Year: 2004	Serology test not severity scoring system. May be relevant for clinical tests question.
79	Authors: Leung TF;Ma KC;Hon KL;Lam CW;Wan H;Li CY;Chan IH;. Title: Serum concentration of macrophage-derived chemokine may be a useful inflammatory marker for assessing severity of atopic dermatitis in infants and young children. Journal Name: Pediatric Allergy and Immunology. Year: 2003 Aug	Serology test not severity scoring system. May be relevant for clinical tests question.
80	Authors: Lewis-Jones MS;Charman CR;. Title: Atopic Dermatitis: Scoring severity and quality of life assessment. Journal Name: . Year: 2006	Review only - references looked at
81	Authors: Lewis-Jones MS;Finlay AY;Dykes PJ;. Title: The infants' dermatitis quality of life index. Journal Name: British Journal of Dermatology. Year: 2001	Not relevant to question, as not looking at measuring severity. May be relevant for quality of life question.

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82	Authors: Lintu P; Savolainen J; Kortekangas-Savolainen O; Kalimo K;. Title: Systemic ketoconazole is an effective treatment of atopic dermatitis with IgE-mediated hypersensitivity to yeasts. Journal Name: Allergy. Year: 2001 Jun	Adults
83	Authors: Luger T; Van Leent EJ; Graeber M; Hedgecock S; Thurston M; Kandra A; Berth-Jones J; Bjerke J; Christophers E; Knop J; Knulst AC; Morren M; Morris A; Reitamo S; Roed-Petersen J; Schoepf E; Thestrup-Pedersen K; Van d; Bos JD;. Title: SDZ ASM 981: an emerging safe and effective treatment for atopic dermatitis. Journal Name: British Journal of Dermatology. Year: 2001 Apr	Study in adults
84	Authors: Meads DM; McKenna SP; Kahler K;. Title: The quality of life of parents of children with atopic dermatitis: interpretation of PIQoL-AD scores. Journal Name: Quality of Life Research. Year: 2005 Dec	Not relevant to question, as not looking at measuring severity. May be relevant for quality of life question.
85	Authors: Moore C; Ehlayel M; Inostroza J; Leiva LE; Sorensen RU;. Title: Elevated levels of soluble HLA class I (sHLA-I) in children with severe atopic dermatitis. Journal Name: Annals of Allergy, Asthma, and Immunology. Year: 1997 Aug	Serology test not severity scoring system. May be relevant for clinical tests question.
86	Authors: Muzaffar F; Hussain I; Rani Z; Aziz A; Sultan B;. Title: Emollients as an adjunct therapy to topical corticosteroids in children with mild to moderate atopic dermatitis. Journal Name: Journal of Pakistan Association of Dermatologists. Year: 2002	Not relevant to question, as not looking at measuring severity
87	Authors: Noh G; Lee KY;. Title: Successful interferon alpha therapy in atopic dermatitis of Besnier's prurigo pattern with normal serum IgE and blood eosinophil fraction: randomized case-controlled study. Journal Name: Cytokine. Year: 2001 Jan 21	Study in adults and children, mean age > 12 years
88	Authors: Oymar K; Aksnes L;. Title: Increased levels of urinary leukotriene E4 in children with severe atopic eczema/dermatitis syndrome. Journal Name: Allergy. Year: 2005	Serology test not severity scoring system. May be relevant for clinical tests question.
89	Authors: Pucci N; Lombardi E; Novembre E; Farina S; Bernardini R; Rossi E; Favilli T; Vierucci A;. Title: Urinary eosinophil protein X and serum eosinophil cationic protein in infants and young children with atopic dermatitis: correlation with disease activity. Journal Name: Journal of Allergy and Clinical Immunology. Year: 2000 Feb	Serology test not severity scoring system. May be relevant for clinical tests question.
90	Authors: Queille-Roussel C; Raynaud F; Saurat JH;. Title: A prospective computerized study of 500 cases of atopic dermatitis in childhood. I. Initial analysis of 250 parameters. Journal Name: Acta Dermato-Venereologica. Year: 1985	Paper used as background only
91	Authors: Rajka G; Langeland T;. Title: Grading of the severity of atopic dermatitis. Journal Name: Acta Dermato-Venereologica. Year: 1989	Discussion only. Paper referenced in systematic review
92	Authors: Schafer T; Heinrich J; Wjst M; Adam H; Ring J; Wichmann HE;. Title: Association between severity of atopic eczema and degree of sensitization to aeroallergens in schoolchildren. Journal Name: Journal of Allergy and Clinical Immunology. Year: 1999 Dec	Not relevant to question, as not looking at trigger factors as potential cause of eczema.
93	Authors: Shimada Y; Sato S; Hasegawa M; Tedder TF; Takehara K;. Title: Elevated serum L-selectin levels and abnormal regulation of L-selectin expression on leukocytes in atopic dermatitis: Soluble L-selectin levels indicate disease severity. Journal Name: Journal of Allergy and Clinical Immunology. Year: 1999	Serology test not severity scoring system. May be relevant for clinical tests question.
94	Authors: Son SW; Park SY; Ha SH; Park GM; Kim MG; Moon JS; Yoo DS; Oh CH;. Title: Objective evaluation for severity of atopic dermatitis by morphologic study of skin surface contours. Journal Name: Skin Research and Technology. Year: 2005 Nov	Adults and Children (mean age 11)
95	Authors: Sowden JM; Berth-Jones J; Ross JS; Motley RJ; Marks R; Finlay AY; Salek MS; Graham-Brown RA; Allen BR; Camp RD;. Title: Double-blind, controlled, crossover study of cyclosporin in adults with severe refractory atopic dermatitis.[see comment]. Journal Name: Lancet. Year: 1991 Jul 20	Adults only. Paper referenced in systematic review
96	Authors: Takigawa M; Tamamori T; Horiguchi D; Sakamoto T; Yamada M; Yoshioka A; Toda K; Imamura S; Yodoi J;. Title: Fc epsilon receptor II/CD23-positive lymphocytes in atopic dermatitis. I. The proportion of Fc epsilon RII+ lymphocytes correlates with the extent of skin lesion. Journal Name: Clinical and Experimental Immunology. Year: 1991 May	Serology test not severity scoring system. May be relevant for clinical tests question.
97	Authors: Tan BB; Weald D; Strickland I; Friedmann PS;. Title: Double-blind controlled trial of effect of housedust-mite allergen avoidance on atopic dermatitis. Journal Name: Lancet. Year: 1996 Jan 6	Included in systematic review 98

Reference ID	Bibliographic information	Reason for rejecting study
99	Authors: Taniuchi S;Chihara J;Kojima T;Yamamoto A;Sasai M;Kobayashi Y;. Title: Serum eosinophil derived neurotoxin may reflect more strongly disease severity in childhood atopic dermatitis than eosinophil cationic protein. Journal Name: Journal of Dermatological Science. Year: 2001 May	Serology test not severity scoring system. May be relevant for clinical tests question.
100	Authors: Tarroux R;Assalit MF;Licu D;Perie JJ;Redoules D;. Title: Variability of enzyme markers during clinical regression of atopic dermatitis. Journal Name: Skin Pharmacology and Applied Skin Physiology. Year: 2002 Jan	Serology test not severity scoring system. May be relevant for clinical tests question.
101	Authors: Tofte S;Graeber M;Cherill M;Omoto M;Thurston M;Hanifin JM;. Title: Eczema area and severity index (EASI): A new tool to evaluate atopic dermatitis. Journal Name: J Eur Acad Dermatol Venereol. Year: 1998	Paper used as background only No data given
102	Authors: Toma T;Mizuno K;Okamoto H;Kanegane C;Ohta K;Ikawa Y;Miura M;Kuroda M;Niida Y;Koizumi S;Yachie A;. Title: Expansion of activated eosinophils in infants with severe atopic dermatitis. Journal Name: Pediatrics International. Year: 2005 Feb	Serology test not severity scoring system. May be relevant for clinical tests question.
103	Authors: Tsuboi H;Kouda K;Takeuchi H;Takigawa M;Masamoto Y;Takeuchi M;Ochi H;. Title: 8-hydroxydeoxyguanosine in urine as an index of oxidative damage to DNA in the evaluation of atopic dermatitis. Journal Name: British Journal of Dermatology. Year: 1998 Jun	Adults only. Paper referenced in systematic review
104	Authors: van JT;Heule F;Korstanje M;van den Broek MJ;Stenveld HJ;van Vloten WA;. Title: Cyclosporin in atopic dermatitis: a multicentre placebo-controlled study. Journal Name: British Journal of Dermatology. Year: 1994 May	Adults only. Paper referenced in systematic review
105	Authors: van JT;Kozel MM;Tank B;Troost R;Prens EP;. Title: Cyclosporine in atopic dermatitis. Modulation in the expression of immunologic markers in lesional skin. Journal Name: Journal of the American Academy of Dermatology. Year: 1992 Dec	Paper used as background only Adults only. Paper referenced in systematic review
106	Authors: Van Leent EJ;Graber M;Thurston M;Wagenaar A;Spuls PJ;Bos JD;. Title: Effectiveness of the ascomycin macrolactam SDZ ASM 981 in the topical treatment of atopic dermatitis. Journal Name: Archives of Dermatology. Year: 1998 Jul	Adults only. Paper referenced in systematic review
107	Authors: Walker C;Kagi MK;Ingold P;Braun P;Blaser K;Bruijnzeel-Koomen CA;Wuthrich B;. Title: Atopic dermatitis: correlation of peripheral blood T cell activation, eosinophilia and serum factors with clinical severity. Journal Name: Clinical and Experimental Allergy. Year: 1993 Feb	Adults only. Paper referenced in systematic review
108	Authors: Wuthrich B;Kagi MK;Joller-Jemelka H;. Title: Soluble CD14 but not interleukin-6 is a new marker for clinical activity in atopic dermatitis. Journal Name: Archives of Dermatological Research. Year: 1992	Adults only. Paper referenced in systematic review
Reference ID	Bibliographic information	Reason for rejecting study
109	Authors: Wilson ME; Megel ME; FredrichsAM; McLaughlin P;. Title: Physiologic and behavioral responses to stress, temperament, and incidence of infection and atopic disorders in the first year of life: a pilot study.. Journal Name: J Pediatr Nurs. Year: 2003	Experimental intervention of atopic children
110	Authors: Laihininen A;. Title: Assessment of psychiatric and psychosocial factors disposing to chronic outcome of dermatoses. Journal Name: Acta Derm Venerol (Stockh). Year: 1991	adults age 20+
111	Authors: Hashiro M; Okumura M;. Title: Anxiety, depression and psychosomatic symptoms in patients with atopic dermatitis: comparison with normal controls and among groups of different degrees of severity.. Journal Name: J Dermatol Sci. Year: 1997	Adult data age 25+
112	Authors: Koblenzer CS; Koblenzer PJ;. Title: Chronic intractable atopic eczema. Journal Name: Arch dermatol. Year: 1988	No intervention No measures Description of cases
113	Authors: Yang S; Yun S; Lee J; Lee J; Kim S; Won Y; Lee S;. Title: Relationship between severity of childhood atopic dermatitis and subject's characteristics including psychological, behavioral and familial problems. Journal Name: Korean J Dermatol. Year: 2005	Not in the English language
114	Authors: Arima M; Shimizu Y; Sowa J; Narita T; Nishi I; Iwata N; Ozaki N; Hashimoto S; Matsunaga K;. Title:	adult data age 21+

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Reference ID	Bibliographic information	Reason for rejecting study
	Psychosomatic analysis of atopic dermatitis using a psychological test. Journal Name: J Dermatol. Year: 2005	
115	Authors: Misery L; Chastaing M;. Title: Joint consultation by a psychiatrist and a dermatologist. Journal Name: Dermatol Psychosom. Year: 2003	4/50 are children 1/4 is a 15 year old No individual data various skin conditions
116	Authors: Kiebert G; Sorensen SV; Revicki D;Fagan SC; Doyle JJ; Cohen J; Fivenson D;. Title: Atopic dermatitis is associated with a decrement in health-related quality of life.. Journal Name: Inter Soc Dermatol. Year: 2002	QOL study with significant number of children in it (n=132). Emphasis on mental health but no breakdown of scales for children.
117	Authors: Howlett S;. Title: Emotional dysfunction, child-family relationships and childhood atopic dermatitis. Journal Name: Br J Dermatol. Year: 1999	not a study
118	Authors: Liedtke R;. Title: Socialization and psychosomatic disease: an empirical study of the educational style of parents with psychosomatic children. Journal Name: Psychother Psychosom. Year: 1990	study outcome are on parent educational skills
119	Authors: Beattie PE; Lewis-Jones MS;. Title: Impairment of quality of life in children with skin disease: further validation studies of the Children's Dermatology Life Quality Index and the Children's Life Quality Index.. Journal Name: Br J Dermatol. Year: 2003	abstract of work published in full in 2006
120	Authors: Hongbo Y; Thomas CL; Harrison MA; Salek S; Finlay AY;. Title: Translating the science of quality of life into practice: what do dematolog life quality index scores mean ?. Journal Name: J Invest Dermatol. Year: 2005	adults, not eczema specific
121	Authors: Lundberg L; Johannesson M; Siverdahl M; Hermansson C; Lindberg M;. Title: Health-related quality of life in patients with psoriasis and atopic dermatitis maesured with SF-36, DLQI, and a subjective measure of disease activity.. Journal Name: Acta Derm Venerol. Year: 2000	Adult data
122	Authors: Long CC; Funnell CM;Collard R; Finlay AY;. Title: What do members of the National Eczema Society really want?. Journal Name: Clin Exper Dermatol. Year: 1993	Of use for intro
123	Authors: Cox M;. Title: Living with the enemy: eczema in the family. Journal Name: J Family Health Care. Year: 2005	general article
124	Authors: Moore K; David TJ; Murray CS; Child F; Arkwright PD;. Title: Effect of childhood eczema and asthma on parental sleep and wellbeing : a prospective comparative study. Journal Name: Br J Dermatol. Year: 2006	mentioned by ref only as e.g. relevant to other section ?
125	Authors: Balkrishnan R; housman TS; Grummer S; Rapp SR; Clarke J; Feldman SR; Fleischer AB;. Title: The family impact of atopic dermatitis in children: the role of the parent caregiver. Journal Name: Pediatr Dermatol. Year: 2003	Duplicate publication of 126
127	Authors: Balkrishnan R; Mael J; Clarke I; Carroll CL; Housman TS; Fleischer AB;. Title: Effects of an episode of specialist care on the impact of childhood atopic dermatitis on the child's family. Journal Name: J Pediatr. Year: 2003	Duplicate publication of 4575
128	Authors: Whally D; Huels J; McKenna SP; van Assche D;. Title: The benfit of pimecrolimus (Elidel, SDZ ASM 981) on parent's quality of life in the treatment of pediatric atopic dermatitis. Journal Name: Pediatrics. Year: 2002	Included in 84
129	Authors: Allen AD;. Title: Intractable atopic eczema suggests majotr affective disorder: poor parenting is secondary. Journal Name: Arch Dermatol. Year: 1989	commentary on mothers role
130	Authors: Mckimming J; Gleeson L; Sinclair M;. Title: A pilot study of a support group for parents of children with eczema. Journal Name: Aust J Derm. Year: 1984	Support group study no relevant outcomes
131	Authors: McKenna SP; Whalley D; de Prost Y; Staab D; Huels J; Paul CF; van Assche D;. Title: Treatment of paedriatric atopic dermatitis with pimecrolimus (Elidel, SDZ ASM 981): impact on quality of life and health related quality of life. Journal Name: JEADV. Year: 2006	mentioned by ref only as e.g. relevant to other section ?
132	Authors: Staab D; Kaufmann R; Brautigam M; Wahn U, the CASM981CDE04 study group ;. Title: Treatment of infants with atopic eczema with pimecrolimus cream 1% improves parents' quality of life: a multicenter,	mentioned by ref only as e.g. relevant to other section ?

Reference ID	Bibliographic information	Reason for rejecting study
	randomized trial. Journal Name: <i>Pediatr Allergy Immunol.</i> Year: 2005	
133	Authors: Tahvanainen AT; Isolaur E;. Title: Concerns and expectations of parents with atopic eczema. Journal Name: <i>Pediatr Allergy Immunol.</i> Year: 2000	survey
134	Authors: Wenninger K; Kehrt R; von Ruden U; Lehmann C; Binder C; Wahn U; Staab D;. Title: Structured parent education in the mangement of childhood atopic dermatitis: the Berlin model. Journal Name: <i>Parent Education and Counselling.</i> Year: 2000	This is a detailed description of an educational program with preliminary results of a study reported in full in 135
136	Authors: Gil KM; Keefe FJ; Sampson HA; McCaskill CC; Rodin J; Crisson JE;. Title: The relation of stress and family environment to atopic dermatitis symptoms in children. Journal Name: <i>J Psychosomatic Res.</i> Year: 1987	general paper
137	Authors: von Ruden U; Bunikoski R; Brautigam M; Staab D;. Title: Cyclosporin A treatment of children with severe atopic dermatitis improves quality of life of their mothers. Journal Name: <i>Dermatol Psychosom.</i> Year: 2002	mentioned by ref only as e.g. relevant to other section ?
138	Authors: Warschburger P; Landgraf JM; Petermann F; Friedel K;. Title: Health-related quality of life in children assessed by their parents: evaluation of the psychometric properties of the CHQ-PF50 in two German samples. Journal Name: <i>Quality of Life Research.</i> Year: 2003	patients not parents QoL
139	Authors: Warschburger P; Buchholz HTH; Petermann F;. Title: Psychological ajustment in parents of young children with atopic dermatitis: which factors predict parental quality of life. Journal Name: <i>Br J Dermatol.</i> Year: 2004	mentioned by ref only as e.g. relevant to other section ?
135	Authors: Staab D; von RuedenU; Kehrt R; Erhart M; Wenninger K; Kamtsiuris P; Wahn U;. Title: Evaluation of a parental training program for the management of childhood atopic dermatitis. Journal Name: <i>Pediatr Allergy Immunol.</i> Year: 2002	mentioned by ref only as e.g. relevant to other section ?
140	Authors: Charman CR; Venn AJ; Williams HC;. Title: The patient-oriented eczema measure: Development and initial validation of the new tool for measuring atopic eczema severity from the patients' perspective. Journal Name: <i>Arch Dermatol.</i> Year: 2004	patients not parents QoL
141	Authors: Housman TS; Patel Mj; Camacho F; Feldman SR; Fleischer AB; Balkrishnan R;. Title: Use of the self-administered eczema are and severity index by parent caregivers : results of a validation study. Journal Name: <i>Br J Dermatol.</i> Year: 2002	Parents but not QoL measure
142	Authors: Gore C; Johnson RJ; Caress AL; Woodcock A; Custovic A;. Title: The information needs and preferred roles in treatment decision-making of parents caring for infants with atopic dermatitis; a qualitative study. Journal Name: <i>Allergy.</i> Year: 2005	No relevant outcomes
143	Authors: Friedman JY; Reed SD; Weinfurt KP; Kahler KH; Walter EB; Schulman KA;. Title: Parents' reported preference scores for childhood atopic dermatitis disease states. Journal Name: <i>BMC Pediatrics.</i> Year: 2004	Parents but not QoL measure
144	Authors: Staab D; Diegen TL; Fartasch M; Kupfer J; Lob-Corzilius T; Ring J; Scheewe S; Scheidt R; Schmid-Ott G; Schnopp C; Szczepanski R; Werfel T; Wittenmeier M; Wahn U; Gieler U;. Title: Age-related, structured educational programmes for the management of atopic dermatitis in children and adolescents: mulitcentre, randomised controlled trial. Journal Name: <i>Br Med J.</i> Year: 2006	mentioned by ref only as e.g. relevant to other section ?
145	Authors: Carroll CL; Balkrishnan R; Feldman SR; Fleischer AB; Manuel JC;. Title: The burden of atopic dermatitis: impact on the patient, family and society. Journal Name: <i>Pediatr Dermatol.</i> Year: 2005	general paper
146	Authors: Chamlin SL; Frieden IJ; Williams ML; Chren MM;. Title: Effects of atopic dermatitis on yung american children and their families. Journal Name: <i>Pediatrics.</i> Year: 2004	Parents but no QoL measure
147	Authors: Holm EA; Wulf HC; Stegmann H; Jemec GBE;. Title: Life quality assessment among patients with atopic eczema.. Journal Name: <i>B J Dermatol.</i> Year: 2006	No individual data for children in comparison analysis of QoL and SCORAD and SF-36 and VASs
148	Authors: Moore E; Williams A; Manias E; Varigos G.. Title: Nurse-led clinics reduce severity of childhood atopic eczema: a review of the literature.. Journal Name: <i>B J Dermatol.</i> Year: 2006	Review of education. No studies included had QoL outcomes
149	Authors: Ullman KC; Moore R; Reidy M;. Title: Atopic eczema: a clinical psychiatric study. Journal Name: <i>J Asthma Res.</i> Year: 1977	Adult data

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Reference ID	Bibliographic information	Reason for rejecting study
150	Authors: Ersser S; Latter S; SurrIDGE H; Buchanan P; Satherley P; Welbourne S;. Title: Psychological and educational interventions for atopic eczema in children. Journal Name: The Cochrane Library. Year: 2006	protocol only
151	Authors: Linnet J; Psych C; Jemec GBE;. Title: Anxiety level and severity of skin condition predicts outcome of psychotherapy in atopic dermatitis patients. Journal Name: Inter J Dermatol. Year: 2001	adult data
152	Authors: Gupta MA; Gupta AK;. Title: Use of eye movement desensitization and preprocessing (EMDR) in the treatment of dermatologic disorders. Journal Name: J Cutan Med Surg. Year: 2002	adult data
153	Authors: Haynes SN; Wilson CC; Jaffe PG; Britton BT;. Title: Biofeedback treatment of atopic dermatitis: controlled case studies of eight cases. Journal Name: Biofeedback Self -Reg. Year: 1979	Only 1 child in 12 patients
154	Authors: Cappore HS; Rowland Payne ME; Goldin D;. Title: Does psychological intervention help chronic skin conditions?. Journal Name: Postgrad Med J. Year: 1998	No individual data for children

Epidemiology

Reference ID	Bibliographic information	Reason for rejecting study
155	Authors: Anderson HR;Pottier AC;Strachan DP;. Title: Asthma from birth to age 23: incidence and relation to prior and concurrent atopic disease. Journal Name: Thorax. Year: 1992 Jul	Data about eczema combined with hay fever
156	Authors: Austin JB;Kaur B;Anderson HR;Burr M;Harkins LS;Strachan DP;Warner JO;. Title: Hay fever, eczema, and wheeze: a nationwide UK study (ISAAC, international study of asthma and allergies in childhood). Journal Name: Archives of Disease in Childhood. Year: 1999 Sep	Children were aged 12-14 years - outside the scope of the guideline.
157	Authors: Cantani A;Micera M;. Title: Epidemiology of atopy in 220 children. Diagnostic reliability of skin prick tests and total and specific IgE levels. Journal Name: Minerva Pediatrica. Year: 138	Children had asthma and allergic rhinitis as well as atopic eczema
158	Authors: Child FJ;Fuller LC;Higgins EM;du Vivier AW;. Title: A study of the spectrum of skin disease occurring in a black population in south-east London. Journal Name: British Journal of Dermatology. Year: 1999 Sep	No demographic data for the 187 black children included in the study. The study only tells us the proportion of cases diagnosed as atopic eczema within the cohort.
159	Authors: Cudowska B;Kaczmarek M;. Title: Atopy patch test in the diagnosis of food allergy in children with atopic eczema dermatitis syndrome. Journal Name: Roczniki Akademii Medycznej W Białymstoku. Year: 2005	Not relevant to epidemiology (Triggering factor?)
160	Authors: Dunwell P;Rose A;. Title: Study of the skin disease spectrum occurring in an Afro-Caribbean population. Journal Name: International Journal of Dermatology. Year: 2003	Study not only in children - unknown mean age
161	Authors: Fergusson DM;Horwood LJ;Shannon FT;. Title: Early solid feeding and recurrent childhood eczema: a 10-year longitudinal study. Journal Name: Pediatrics. Year: 1990 Oct	Study not relevant to the guideline question on epidemiology.
162	Authors: George AO;. Title: Atopic dermatitis in Nigeria. Journal Name: International Journal of Dermatology. Year: 1989 May	Children and Adults
163	Authors: Haileamlak A, Lewis SA, Britton J, Venn AJ, Woldemariam D, Hubbard R, Williams HC. Title: Validation of the International study of asthma and allergies in children (ISAAC) and U.K. criteria for atopic eczema in Ethiopian children. Journal Name: Br J Dermatol. Year: 2005	Not relevant to the guideline question on epidemiology.
164	Authors: Halken S;. Title: Prevention of allergic disease in childhood: Clinical and epidemiological aspects of primary and secondary allergy prevention. Journal Name: Pediatric Allergy and Immunology, Supplement. Year: 2004	Not relevant to epidemiology question.
165	Authors: Harris JM;Cullinan P;Williams HC;Mills P;Moffat S;White C;Newman Taylor AJ;. Title: Environmental associations with eczema in early life. Journal Name: British Journal of Dermatology. Year: 2001 Apr	A more recent publication of this study is included (Harris 2007.165)
166	Authors: Janumpally SR;Feldman SR;Gupta AK;Fleischer AB;. Title: In the United States, blacks and Asian/Pacific Islanders are more likely than whites to seek medical care for atopic dermatitis. Journal Name: Archives of Dermatology. Year: 2002 May	Not relevant to the guideline question on epidemiology.
167	Authors: Meglio P;Arabito E;Plantamura M;Businco L;. Title: Prevalence of latex allergy and evaluation of some risk factors in a population of atopic children. Journal Name: Journal of Investigational Allergology and Clinical Immunology. Year: 2002	Not relevant to epidemiology (Triggering factor?)
168	Authors: Millikan LE;. Title: Atopic dermatitis. Clinical spectrum and approach to treatment. Journal Name: Postgraduate Medicine. Year: 1984 Jul	Narrative review - background information.
169	Authors: Nanda A;Al-Hasawi F;Alsaleh QA;. Title: A prospective survey of pediatric dermatology clinic patients in Kuwait: an analysis of 10,000 cases. Journal Name: Pediatric Dermatology. Year: 1999 Jan	Study reports the proportion of atopic eczema among children with dermatological conditions - study only conducted in Kuwait, therefore not believed to give useful information regarding

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Reference ID	Bibliographic information	Reason for rejecting study
170	Authors: Novembre E;Cianferoni A;Lombardi E;Bernardini R;Pucci N;Vierucci A;. Title: Natural history of 'intrinsic' atopic dermatitis. Journal Name: Allergy. Year: 2001 May	epidemiology. UK data available therefore this Italian study excluded.
171	Authors: Poysa L;Korppi M;Pietikainen M;Remes K;Juntunen-Backman K;. Title: Asthma, allergic rhinitis and atopic eczema in Finnish children and adolescents. Journal Name: Allergy. Year: 1991 Apr	Children and adolescents of unknown age, in Finland. We have UK data for these aspects of epidemiology.
172	Authors: Remes ST;Korppi M;Kajosaari M;Koivikko A;Soininen L;Pekkanen J;. Title: Prevalence of allergic rhinitis and atopic dermatitis among children in four regions of Finland. Journal Name: Allergy. Year: 1998 Jul	Children aged 13-14
173	Authors: Rennick GJ;Moore E;Orchard DC;. Title: Skin prick testing to food allergens in breast-fed young infants with moderate to severe atopic dermatitis. Journal Name: Australasian Journal of Dermatology. Year: 2006 Feb	Not relevant to epidemiology (Triggering factor?)
174	Authors: Rottem M;Darawsha J;Zarfin J;. Title: Atopic dermatitis in infants and children in Israel: clinical presentation, allergies and outcome. Journal Name: Israel Medical Association Journal. Year: 2004 Apr	We have UK data for this aspect of epidemiology therefore this study in Israel is excluded.
175	Authors: Rudzeviciene O;Narkeviciute I;Eidukevicius R;. Title: Lactose malabsorption in young Lithuanian children with atopic dermatitis. Journal Name: Acta Paediatrica. Year: 2004 Apr	Not relevant to epidemiology.
176	Authors: Shibeshi D;. Title: Pattern of skin disease at the Ethio-Swedish pediatric hospital, Addis Ababa, Ethiopia. Journal Name: Pediatric Dermatology. Year: 2000 Sep	We have UK data for epidemiology aspects included in this paper.
177	Authors: Tamsark TH;Koch A;Melbye M;Molbak K;. Title: Incidence and predictors of atopic dermatitis in an open birth cohort in Sisimiut, Greenland. Journal Name: Acta Paediatrica. Year: 2001 Sep	We have UK data for epidemiology aspects included in this paper.
178	Authors: Tariq SM;Matthews SM;Hakim EA;Arshad SH;. Title: Egg allergy in infancy predicts respiratory allergic disease by 4 years of age. Journal Name: Pediatric Allergy and Immunology. Year: 2000 Aug	This study considers the relationship between egg allergy and atopic disease, predominantly respiratory disease. Although is mentioned that a history of infantile atopic eczema 'had an independent association' with respiratory allergic symptoms, no data were presented.
179	Authors: van Asperen PP;Kemp AS;Mellis CM;. Title: A prospective study of the clinical manifestations of atopic disease in infancy. Journal Name: Acta Paediatrica Scandinavica. Year: 1984 Jan	Select group of children with a family history of atopy
180	Authors: Voor T;Julge K;Bottcher MF;Jenmalm MC;Duchen K;Bjorksten B;. Title: Atopic sensitization and atopic dermatitis in Estonian and Swedish infants. Journal Name: Clinical and Experimental Allergy. Year: 2005 Feb	We have UK data for epidemiology aspects included in this paper.
181	Authors: Wahn U;Bauer C;. Title: Baseline epidemiological data from ETAC. Journal Name: Allergologie. Year: 1998	Not relevant to the guideline question on epidemiology.
182	Authors: Wenk C;Itin PH;. Title: Epidemiology of pediatric dermatology and allergology in the region of Aargau, Switzerland. Journal Name: Pediatric Dermatology. Year: 2003 Nov	Study reports the proportion of atopic eczema among children with dermatological conditions - study only conducted in Switzerland, therefore not believed to give useful information regarding epidemiology.
183	Authors: Williams HC;. Title: Epidemiology of atopic dermatitis. Journal Name: . Year: 2005	Review; no description of study design, more detail in authors other publications.184;185
186	Authors: Yates VM;Kerr RE;MacKie RM;. Title: Early diagnosis of infantile seborrhoeic dermatitis and atopic dermatitis-clinical features. Journal Name: British Journal of Dermatology. Year: 1983 Jun	No data relevant to the epidemiology question.

Identification and management of trigger factors

Reference ID	Bibliographic information	Reason for rejecting
161	Title: Early solid feeding and recurrent childhood eczema: a 10-year longitudinal study Authors: Fergusson DM;Horwood LJ;Shannon FT; Journal: Pediatrics Year: 1990 Oct	Consider for epidemiology section.
187	Title: A study of the factors responsible for the development of allergic diseases in early life Authors: Kawano Y;Morikawa M;Watanabe M;Ohshiba A;Noma T;Odajima H; Journal: Asian Pacific Journal of Allergy and Immunology Year: 2005	This study considers factors associated with the development of atopic eczema in children, which is outside the guideline scope.
188	Title: Allergic diseases and atopic sensitization in children related to farming and anthroposophic lifestyle - The PARSIFAL study Authors: Alfvén T;Braun-Fahrlander C;Brunekreef B;von ME;Riedler J;Scheynius A;van HM;Wickman M;Benz MR;Budde J;Michels KB;Schram D;Ublagger E;Waser M;Pershagen G; Journal: Allergy Year: 2006	This study considers factors affecting the development of allergic disorders, which is outside the guideline scope.
189	Title: Asthma, allergy and atopy in Asian immigrants in Melbourne Authors: Leung RC;Carlin JB;Burdon JG;Czarny D; Journal: Medical Journal of Australia Year: 1994 Oct 3	Epidemiological study in adults in Australia.
190	Title: Atopic dermatitis. Correlation of environmental factors with frequency Authors: Rajka G; Journal: International Journal of Dermatology Year: 1986 Jun	Survey of dermatologists from 5 countries/continents asking for their views on the pattern and triggers for atopic eczema. The UK was not involved.
191	Title: Atopic eczema and other manifestations of atopy: results of a study in East and West Germany Authors: Schafer T;Vieluf D;Behrendt H;Kramer U;Ring J; Journal: Allergy Year: 1996 Aug	Consider for epidemiology section.
192	Title: Breast-feeding and atopic dermatitis Authors: Friday GA;Smith J; Journal: Pediatric Asthma Allergy and Immunology Year: 2000	This study considers whether breast-feeding affects the development of allergic disorders, which is outside the guideline scope.
193	Title: Breastfeeding and risk of atopic dermatitis, by parental history of allergy, during the first 18 months of life Authors: Benn CS;Wohlfahrt J;Aaby P;Westergaard T;Benfeldt E;Michaelsen KF;Bjorksten B;Melbye M; Journal: American Journal of Epidemiology Year: 2004 Aug 1	This study considers whether breast-feeding affects the development of allergic disorders, which is outside the guideline scope.
194	Title: Breastfeeding, soluble CD14 concentration in breast milk and risk of atopic dermatitis and asthma in early childhood: birth cohort study Authors: Rothenbacher D;Weyermann M;Beermann C;Brenner H; Journal: Clinical and Experimental Allergy Year: 2005 Aug	This study considers factors associated with the development of atopic eczema or asthma, which is outside the guideline scope.
195	Title: Climate and the prevalence of symptoms of asthma, allergic rhinitis, and atopic eczema in children Authors: Weiland SK;Husing A;Strachan DP;Rzehak P;Pearce N; Journal: Occupational and Environmental Medicine Year: 2004	Consider for epidemiology section.
196	Title: Clinical course and prognosis of cow's milk allergy are dependent on milk-specific IgE status Authors: Saarinen KM;Pelkonen AS;Makela MJ;Savilahti E; Journal: Journal of Allergy and Clinical Immunology Year: 2005 Oct	The study aimed to identify the occurrence of atopic diseases in children with cow's milk allergy. The reverse question is what we need information on for this guideline.
197	Title: Early childhood environment related to microbial exposure and the occurrence of atopic disease at school age Authors: De MG;Janssen NAH;Brunekreef B; Journal: Allergy Year: 2005	This survey considers the factors associated with the incidence of atopic disease at school age, rather than trigger factors in those with a diagnosis of atopic eczema.
198	Title: Early endotoxin exposure and atopy development in infants: results of a birth cohort study Authors: Bolte G;Bischof W;Borte M;Lehmann I;Wichmann HE;Heinrich J;LISA Study Group.; Journal: Clinical and Experimental Allergy Year: 2003 Jun	This study considers factors that affect the development of allergic disorders, which is outside the guideline scope.
199	Title: Eczematous reactions in atopic patients caused by epicutaneous testing with inhalant allergens Authors: Reitamo S;Visa K;Kahonen K;Kayhko K;Stubbs S;Salo OP; Journal: British Journal of Dermatology Year: 1986	The study compares the prevalence of delayed reactions to patch tests in children with atopic eczema to those with allergic rhinitis, and

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Reference ID	Bibliographic information	Reason for rejecting
	Mar	healthy control patients. This does not inform us of how to identify or manage trigger factors.
200	Title: Eczematous skin reaction from patch testing with aeroallergens in atopic children with and without atopic dermatitis Authors: Wananukul S;Huiprasert P;Pongprasit P; Journal: Pediatric Dermatology Year: 1993 Sep	This study compares the results of patch testing to five aeroallergens in children with atopic eczema to those without the condition. We have systematic reviews that note the finding that aeroallergens can trigger atopic eczema, therefore individual studies were not reviewed.
201	Title: Effect of exclusive breast-feeding and early solid food avoidance on the incidence of atopic dermatitis in high-risk infants at 1 year of age Authors: Schoetzau A;Filipiak-Pittroff B;Franke K;Koletzko S;von BA;Gruebl A;Bauer CP;Berdel D;Reinhardt D;Wichmann HE;German Infant Nutritional Intervention Study Group.; Journal: Pediatric Allergy and Immunology Year: 2002 Aug	This study considers primary prevention of atopic eczema rather than management in children who have a diagnosis of atopic eczema.
202	Title: Environmental and dietary risk factors for infantile atopic eczema among a Slovak birth cohort Authors: Dunlop AL;Reichtova E;Palcovicova L;Ciznar P;mcakova-Dodd A;Smith SJ;McNabb SJN; Journal: Pediatric Allergy and Immunology Year: 2006	The study aims to identify factors associated with the development of atopic eczema, rather than identification or management of those with a diagnosis of atopic eczema.
203	Title: Environmental factors and symptoms in infants at high risk of allergy.[see comment] Authors: Burr ML;Miskelly FG;Butland BK;Merrett TG;Vaughan-Williams E; Journal: Journal of Epidemiology and Community Health Year: 1989 Jun	The study considers possible causes of allergic diseases in infants, rather than trigger factors in those with a diagnosis of atopic eczema.
204	Title: Environmental pollution and allergy. [48 refs] Authors: Ring J;Eberlein-Koenig B;Behrendt H; Journal: Annals of Allergy, Asthma, and Immunology Year: 2001 Dec	Narrative review - background information.
205	Title: Ethnic differences in the pattern of skin disease seen in a dermatology department--atopic dermatitis is more common among Asian referrals in Leicestershire Authors: Sladden MJ;Dure-Smith B;Berth-Jones J;Graham-Brown RA; Journal: Clinical and Experimental Dermatology Year: 1991 Sep	Epidemiological data - but unclear whether these were data for adults and/or children.
206	Title: Exposure to a high concentration of mite allergen in early infancy is a risk factor for developing atopic dermatitis: a 3-year follow-up study Authors: Huang JL;Chen CC;Kuo ML;Hsieh KH; Journal: Pediatric Allergy and Immunology Year: 2001 Feb	This study considers factors associated with the development of atopic eczema in children, which is outside the guideline scope.
207	Title: Exposure to birch pollen in infancy and development of atopic disease in childhood Authors: Kihlstrom A;Lilja G;Pershagen G;Hedlin G; Journal: Journal of Allergy and Clinical Immunology Year: 2002	This study considers factors associated with the development of atopic eczema in children, which is outside the guideline scope.
208	Title: Familiar and environmental factors influencing atopic dermatitis in the childhood Authors: Sebok B;Schneider I;Harangi F;Primary Care Paediatricians in Baranya County.; Journal: Journal of the European Academy of Dermatology and Venereology Year: 2006 Apr	Consider for epidemiology section.
209	Title: Food allergy and atopic dermatitis in infancy: An epidemiologic study Authors: Hill DJ;Hosking CS; Journal: Pediatric Allergy and Immunology Year: 2004	Consider for epidemiology - this is not a study of how to identify food allergy
210	Title: Frequency of and risk factors for allergy in primary school children: results of a population survey Authors: Angioni AM;Fanciulli G;Corchia C; Journal: Paediatric and Perinatal Epidemiology Year: 1989 Jul	Consider for epidemiology section.
211	Title: Heredity, pet ownership, and confounding control in a population-based birth cohort Authors: Almqvist C;Egmar AC;van Hage-Hamsten M;Berglund N;Pershagen G;Nordvall SL;Svartengren M;Hedlin G;Wickman M; Journal: Journal of Allergy and Clinical Immunology Year: 2003 Apr	This study looks at pet ownership in a population-based birth cohort, to confirm the hypothesis that pet ownership might be a confounder in studies evaluating risk associations between pet exposure and allergic diseases. Not relevant to the guideline scope
212	Title: High interleukin-13 production by phytohaemagglutinin- and Der p 1-stimulated cord blood mononuclear cells is associated with the subsequent development of atopic dermatitis at the age of 3 years Authors: Lange J;Ngoumou G;Berkenheide S;Moseler M;Mattes J;Kuehr J;Kopp MV; Journal: Clinical and Experimental Allergy Year: 2003 Nov	This study considers factors involved in the development of atopic eczema, rather than the triggering of exacerbations/worsening in those who already have atopic eczema.
213	Title: Immediate reactions following challenge-tests in children with atopic dermatitis Authors: Meglio P;Farinella F;Trogolo E;Giampietro PG;Cantani A;Businco L; Journal: Allergie et Immunologie Year: 1988 Feb	The study considered the results of skin prick and IgE testing relative to an open food challenge but diagnostic accuracy data could not be calculated from the results reported.
214	Title: Increase in skin mast cells following chronic house dust mite exposure Authors: Mitchell EB;Crow J;Williams G;Platts-Mills TA; Journal: British Journal of Dermatology Year: 1986 Jan	The age of the study population is outside the guideline scope (20-30 years).

Reference ID	Bibliographic information	Reason for rejecting
215	Title: Maternal smoking influences cord serum IgE and IgD levels and increases the risk for subsequent infant allergy Authors: Magnusson CG; Journal: Journal of Allergy and Clinical Immunology Year: 1986 Nov	The study considers possible causes of allergic diseases in infants, rather than trigger factors in those with a diagnosis of atopic eczema.
216	Title: Perinatal risk factors for sensitization, atopic dermatitis and wheezing during the first year of life (PIPO study) Authors: Hagendorens MM;Bridts CH;Lauwers K;Van NS;Ebo DG;Vellinga A;De Clerck LS;Van Bever HP;Weyler JJ;Stevens WJ; Journal: Clinical and Experimental Allergy Year: 2005	This study considers factors associated with the development of atopic eczema in children, which is outside the guideline scope.
217	Title: Prenatal factors and occurrence of rhinitis and eczema among offspring Authors: Xu B;Jarvelin MR;Pekkanen J; Journal: Allergy Year: 1999 Aug	This cohort study considers the factors associated with development of allergic disorders in children, rather than trigger factors for exacerbations of eczema in children who already have the condition.
218	Title: Prevalence of latex allergy in hospital staff in Hong Kong Authors: Leung R;Ho A;Chan J;Choy D;Lai CK; Journal: Clinical and Experimental Allergy Year: 1997 Feb	Epidemiological study in adults in Hong Kong.
219	Title: Prolonged breast-feeding as prophylaxis for atopic disease Authors: Saarinen UM;Kajosaari M;Backman A;Siimes MA; Journal: Lancet Year: 1979 Jul 28	This study considers the effects of prolonged breast-feeding on the risk of atopic disease, which is outside the guideline scope.
220	Title: Provocation with cow's milk and cereals in atopic dermatitis Authors: Hammar H; Journal: Acta Dermato-Venerologica Year: 1977	Prevalence of positive test results on open food challenges were reported - no diagnostic accuracy data.
221	Title: Risk factors for atopic dermatitis in infants at high risk of allergy: The PIAMA study Authors: Kerkhof M;Koopman LP;Van Strient RT;Wijga A;Smit HA;Aalberse RC;Neijenst HJ;Brunekreef B;Postma DS;Gerritsen J; Journal: Clinical and Experimental Allergy Year: 2003	This study considers factors associated with the development of atopic eczema in children, which is outside the guideline scope.
222	Title: Sensitization to food and aeroallergens in children with atopic dermatitis seen at the University of Santo Tomas Hospital Allergy Clinic Authors: Vicencio JCA;Gonzalez-Andaya AM; Journal: Santo Tomas Journal of Medicine Year: 2005	Consider for the epidemiology section.
223	Title: Short-term effect of partially hydrolyzed formula on the prevention of development of atopic dermatitis in infants at high risk Authors: Han YS;Park HY;Ahn KM;Lee JS;Choi HM;Lee SJ; Journal: Journal of Korean Medical Science Year: 2003 Aug	The study considers primary prevention of atopic disease, which is outside the guideline scope.
224	Title: The influence of childhood infections and vaccination on the development of atopy: A systematic review of the direct epidemiological evidence Authors: Adler UC; Journal: Homeopathy Year: 2005	The review considers factors affecting the risk of developing atopic disease which is outside the guideline scope.
225	Title: The natural history of sensitizations to food and aeroallergens in atopic dermatitis: a 4-year follow-up Authors: Patrizi A;Guerrini V;Ricci G;Neri I;Specchia F;Masi M; Journal: Pediatric Dermatology Year: 2000 Jul	Consider for the epidemiology section of the guideline.
226	Title: Turnip rape and oilseed rape are new potential food allergens in children with atopic dermatitis Authors: Poikonen S;Puumalainen TJ;Kautiainen H;Burri P;Palosuo T;Reunala T;Turjanmaa K; Journal: Allergy Year: 2006 Jan	Skin prick test and challenge results to turnip rape and oilseed rape were compared, but not in the true diagnostic accuracy sense (i.e. sensitivity, specificity, PPV and NPV cannot be calculated from the data reported).
227	Title: Worldwide variation in prevalence of symptoms of asthma, allergic rhinoconjunctivitis, and atopic eczema: ISAAC. The International Study of Asthma and Allergies in Childhood (ISAAC) Steering Committee.[see comment] Journal: Lancet Year: 1998 Apr 25	The study included children aged 13-14 years (outside guideline scope).
228	Title: Prevalence of IgE-mediated food allergy among children with atopic dermatitis Authors: Eigenmann PA;Sicherer SH;Borkowski TA;Cohen BA; Journal: Pediatrics Year: 1998	Although this study examines the profile/differences in eczema severity in those with a positive or negative DBPCFC test result, and reports the proportion of positive test results on skin prick testing, it is not possible to calculate any diagnostic accuracy data.
229	Title: Endogenous antimicrobial peptides and skin infections in atopic dermatitis.[see comment] Authors: Ong PY;Ohtake T;Brandt C;Strickland I;Boguniewicz M;Ganz T;Gallo RL;Leung DY; Journal: New England Journal of Medicine Year: 2002 Oct 10	The study considers the mechanisms of disease, it does not address the guideline questions regarding identification and management of trigger factors.
230	Title: Natural course of AEDS Authors: Wuthrich B;Schmid-Grendelmeier P; Journal: Allergy Year: 2002	Consider for the epidemiology section.
231	Title: Determinants of total and specific IgE in infants with atopic dermatitis. ETAC Study Group. Early Treatment of the Atopic Child Journal: Pediatric Allergy and Immunology Year: 1997 Nov	The paper considers which environmental factors affect the prevalence of certain allergies. Does not address the guideline questions about identification and management of allergy. Consider for epidemiology

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Reference ID	Bibliographic information	Reason for rejecting
		section.
232	Title: Evaluating the relevance of aeroallergen sensitization in atopic eczema with the atopy patch test: a randomized, double-blind multicenter study. Atopy Patch Test Study Group Authors: Darsow U;Vieluf D;Ring J; Journal: Journal of the American Academy of Dermatology Year: 1999 Feb	The population included were adults (aged range 15-63 years).
233	Title: Extraordinarily high serum IgE levels and consequences for atopic phenotypes Authors: Laske N;Bunikowski R;Niggemann B; Journal: Annals of Allergy, Asthma, and Immunology Year: 2003 Aug	Background information.
234	Title: Early sensitization to house dust mite is a major risk factor for subsequent development of bronchial asthma in Japanese infants with atopic dermatitis: results of a 4-year followup study Authors: Ohshima Y;Yamada A;Hiraoka M;Katamura K;Ito S;Hirao T;Akutagawa H;Kondo N;Morikawa A;Mayumi M; Journal: Annals of Allergy, Asthma, and Immunology Year: 2002 Sep	An epidemiological study - consider for that section.
235	Title: The immunopathogenic role of food hypersensitivity in atopic dermatitis. [19 refs] Authors: Sampson HA; Journal: Acta Dermato-Venereologica Year: 1992	This paper considers the mechanism of food hypersensitivity. The proportion of positive and negative reactions to DBPCFC are quoted, but this is not a study considering the accuracy of any test compared to food challenge.
236	Title: Atopy patch test reactions are associated with T lymphocyte-mediated allergen-specific immune responses in atopic dermatitis Authors: Wistokat-Wulffing A;Schmidt P;Darsow U;Ring J;Kapp A;Werfel T; Journal: Clinical and Experimental Allergy Year: 1999 Apr	No demographic data are reported in this study therefore it is not clear whether children and/or adults were included. The study considers the mechanism of response to patch testing rather than diagnostic accuracy.
237	Title: Atopic dermatitis and aeroallergen contact sensitivity Authors: Adinoff AD;Tellez P;Clark RA; Journal: Journal of Allergy and Clinical Immunology Year: 1988 Apr	Considers whether environmental factors trigger eczema - we have included systematic reviews that have addressed this question therefore lower evidence levels are excluded.
238	Title: Allergen sensitization through the skin induces systemic allergic responses. [41 refs] Authors: Beck LA;Leung DY; Journal: Journal of Allergy and Clinical Immunology Year: 2000 Nov	Narrative review regarding the mechanism of allergic responses - background information.
239	Title: Challenge confirmation of late-onset reactions to extensively hydrolyzed formulas in infants with multiple food protein intolerance Authors: Hill DJ;Cameron DJ;Francis DE;Gonzalez-Andaya AM;Hosking CS; Journal: Journal of Allergy and Clinical Immunology Year: 1995 Sep	Diagnostic accuracy data were not reported in this study.
240	Title: The natural history of intolerance to soy and extensively hydrolyzed formula in infants with multiple food protein intolerance Authors: Hill DJ;Heine RG;Cameron DJ;Francis DE;Bines JE; Journal: Journal of Pediatrics Year: 1999 Jul	A separate report of an study that is excluded.239 Only 6 of 18 children had atopic eczema. This report does not address the questions about how to identify or manage food allergy in children.
241	Title: Natural course of sensitization to food and inhalant allergens during the first 6 years of life Authors: Kulig M;Bergmann R;Klettke U;Wahn V;Tacke U;Wahn U; Journal: Journal of Allergy and Clinical Immunology Year: 1999 Jun	Consider for the epidemiology section.
242	Title: Utility of food-specific IgE concentrations in predicting symptomatic food allergy Authors: Sampson HA; Journal: Journal of Allergy and Clinical Immunology Year: 2001 May	The population in this study had food allergy (61% of whom also had atopic eczema). Specificity and PPV of certain IgE thresholds are considered, but the data are not reported separately for those with atopic eczema.
243	Title: Serum levels of trace metals in children with atopic eczema Authors: David TJ;Wells FE;Sharpe TC;Gibbs AC;Devlin J; Journal: British Journal of Dermatology Year: 1990 Apr	This study reports the levels of trace elements in children with atopic eczema compared to controls. However it does not explain whether or not any differences identified account for exacerbations of eczema.
244	Title: New insights into atopic dermatitis. Authors: Leung DY;Boguniewicz M;Howell MD;Nomura I;Hamid QA; Journal: Journal of Clinical Investigation Year: 2004 Mar	Narrative review - used as background information.
245	Title: Atopic dermatitis. Authors: Leung DY;Bieber T; Journal: Lancet Year: 2003 Jan 11	Narrative review - used as background information.
246	Title: Atopic dermatitis: role of food and house dust mite allergens Authors: Casimir GJ;Duchateau J;Gossart B;Cuvelier P;Vandaele F;Vis HL; Journal: Pediatrics Year: 1993 Aug	This study describes 63 children treated with a diet free of cow's milk. IgE levels, antibodies, and IgG against beta-lactoglobulin, soya protein, and house dust mite were compared in the children who did or did not respond to the cow's-milk-free diet.

Reference ID	Bibliographic information	Reason for rejecting
247	Title: Effect of allergen avoidance on development of allergic disorders in infancy. Authors: Arshad SH;Matthews S;Gant C;Hide DW; Journal: Lancet Year: 1992 Jun 20	The study considers primary prevention of allergic disorders which is outside the guideline scope.
248	Title: Placebo-controlled trial of house dust mite-impermeable mattress covers: effect on symptoms in early childhood.[see comment] Authors: Koopman LP;van Strien RT;Kerkhof M;Wijga A;Smit HA;de Jongste JC;Gerritsen J;Aalberse RC;Brunekreef B;Neijens HJ;Prevention and Incidence of Asthma and Mite Allergy (PIAMA) Study.; Journal: American Journal of Respiratory and Critical Care Medicine Year: 2002 Aug 1	The study considers primary prevention, rather than house dust mite avoidance in children with atopic eczema.
249	Title: A controlled trial of house dust mite eradication using natamycin in homes of patients with atopic dermatitis: effect on clinical status and mite populations.[see comment] Authors: Colloff MJ;Lever RS;McSharry C; Journal: British Journal of Dermatology Year: 1989 Aug	All study participants were aged 12 years or older.
250	Title: Preventive effect of bedding encasement with microfibre fibers on mite sensitization Authors: Nishioka K;Yasueda H;Saito H; Journal: Journal of Allergy and Clinical Immunology Year: 1998 Jan	No clinical outcomes (only IgE and Der p1 levels).
251	Title: The development and prediction of atopy in high-risk children: follow-up at age seven years in a prospective randomized study of combined maternal and infant food allergen avoidance Authors: Zeiger RS;Heller S; Journal: Journal of Allergy and Clinical Immunology Year: 1995 Jun	The study considers primary prevention of atopic eczema (i.e. manipulating the diet of pregnant women in order to identify whether this reduces the risk of atopic disease in their children). This is outside the scope of the atopic eczema guideline.
173	Title: Skin prick testing to food allergens in breast-fed young infants with moderate to severe atopic dermatitis Authors: Rennick GJ;Moore E;Orchard DC; Journal: Australasian Journal of Dermatology Year: 2006 Feb	This study only reported the proportion of positive tests to allergens - it is not a study of diagnostic accuracy.
252	Title: What Is Meant by a 'Flare' in Atopic Dermatitis? Authors: Langan SM;Thomas KS;Williams HC; Journal: Archives of Dermatology Year: 2006	This review considered the definition of a flare of atopic eczema. It is relevant to the flare section of the guideline but not to trigger factors.
253	Title: IgE antibody to sweat in atopic dermatitis Authors: Adachi K;Aoki T; Journal: Acta Dermatovenereologica Year: 1989	Study investigated the relationship between IgE and sweat - not relevant to the guideline questions.
254	Title: Patch test results in schoolchildren. Results from the Information Network of Departments of Dermatology (IVDK) and the German Contact Dermatitis Research Group (DKG)[see comment] Authors: Brasch J;Geier J; Journal: Contact Dermatitis Year: 1997 Dec	Beyond guideline scope- about the spectrum of contact allergens in school children as a basis of prevention and diagnosis of allergic contact dermatitis.
255	Title: Patch test reactions to mite antigens: a GERDA multicentre study. Groupe d'Etudes et de Recherches en Dermato-Allergie Authors: Castelain M;Birnbaum J;Castelain PY;Ducombs G;Grosshans E;Jelen G;Lacroix M;Meynadier J;Mougeolle JM;Lachapelle JM; Journal: Contact Dermatitis Year: 1993 Nov	Study on the test quality of patch tests, and the determinants of which allergens should be used in testing. Not relevant to the guideline questions. The mean age of participants ranged from 22-37 years across four groups.
256	Title: IgE-mediated cow's milk allergy: skin prick test subtypes and clinical phenotypes using cow's milk hydrolysate infant formulas Authors: Copenhaver CC;Schwartz RH;Haltermann JS;Conn KM; Journal: Pediatric Asthma, Allergy and Immunology Year: 2003	The population included in the study was not stated to have atopic eczema.
257	Title: Atopy patch test reaction to airborne allergens in the diagnosis of atopic dermatitis Authors: Czarnecka-Operacz M;Bator-Wegner M;Silny W; Journal: Acta Dermatovenerologica Croatica Year: 2005	The age of the population ranged from 6-45 years (mean 19 years). The proportion of children aged under 12 years was not stated, and no data were reported separately for this group.
258	Title: The atopy patch test: an increased rate of reactivity in patients who have an air-exposed pattern of atopic eczema Authors: Darsow U;Vieluf D;Ring J; Journal: British Journal of Dermatology Year: 1996 Aug	The age of the population ranged from 4-77 years (mean 31 years). The proportion of children aged under 12 years was not stated, and no data were reported separately for this group.
259	Title: Dose response study of atopy patch test in children with atopic eczema Authors: Darsow U;Vieluf D;Berg B;Berger J;Busse A;Czech W;Heese A;Heidelbach U;Peters KP;Przybilla B;Richter G;Rueff F;Werfel T;Wistokat-Wulfing A;Ring J; Journal: Pediatric Asthma Allergy and Immunology Year: 1999	This study reports the proportion of positive results on atopy patch testing, but it is not possible to calculate diagnostic accuracy from the results reported.
260	Title: The prevalence of positive reactions in the atopy patch test with aeroallergens and food allergens in subjects with atopic eczema: a European multicenter study Authors: Darsow U;Laifaoui J;Kerschenlohr K;Wollenberg A;Przybilla B;Wuthrich B;Borelli S Jr;Giusti F;Seidenari S;Drzimalla K;Simon D;Disch R;Borelli S;Devillers AC;Oranje AP;De RL;Hachem JP;Dangoisse C;Blondeel A;Song M;Breuer K;Wulf A;Werfel T;Roul S;Taieb A;Bolhaar S;Bruijnzeel-Koomen C;Bronnimann M;Braathen LR;Didierlaurent A;Andre C;Ring J; Journal: Allergy Year: 2004 Dec	The age of the population ranged from 1.6-80 years. The proportion of children aged under 12 years was not stated, and no data were reported separately for this group.

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Reference ID	Bibliographic information	Reason for rejecting
261	Title: Allergies and skin testing: a Nairobi experience Authors: De SM; Journal: East African Medical Journal Year: 1994 Jul	No children were included in the study (participants were aged 20-39 years).
262	Title: Comparison of skin prick test and atopy patch test with dust mite extracts in patients with respiratory symptoms or atopic eczema dermatitis syndrome Authors: Fuiano N;Incorvaia C; Journal: Allergy Year: 2003 Aug	Abstract report only - no methods reported, and only limited demographic data. Only the proportion of positive tests were reported (not diagnostic accuracy).
263	Title: A new patch test preparation of dust mites for atopic dermatitis Authors: Gaddoni G;Baldassari L;Zucchini A; Journal: Contact Dermatitis Year: 1994 Aug	Evaluation of a new commercial patch test preparation in children and adults (aged 6-42 years) - the proportion of positive test results were reported in the group with atopic eczema compared to a control group without atopic disease. This is not a study
264	Title: Hypersensitivity to milk and egg white. Skin tests, rast results and clinical intolerance Authors: Gavani UD;Hyde JS;Moore BS; Journal: Annals of Allergy Year: 1978 May	This study includes 34 children with asthma, atopic rhinitis diagnosis, including 32% with atopic eczema. This is not a diagnostic accuracy study, and no data were reported separately for children with atopic eczema.
265	Title: Atopy patch testing in children with asthma and rhinitis symptoms allergic to house dust mite Authors: Guler N;Kirerleri E;Tamay Z;Ones U; Journal: Pediatric Allergy and Immunology Year: 2006 Aug	Study participants were children with asthma and rhinitis symptoms, rather than atopic eczema.
266	Title: Allergy testing of children Authors: Halken S;Host A;Daugbjerg PS;Jensen VB;Bindslev-Jensen G; Journal: Ugeskrift for Laeger Year: 2005	Only the abstract for this paper was in English; the remainder of the paper was in a foreign language.
267	Title: Scratch and intradermal skin testing: a comparative study in 250 atopic children Authors: Hannaway PJ;Hyde JS; Journal: Annals of Allergy Year: 1970 Sep	None of the children had atopic eczema.
268	Title: Diagnosis of dermatologic food allergy Authors: Hannuksela M; Journal: Annals of Allergy Year: 1987 Nov	This study compares skin tests results to those of food challenges but the data were not reported in a way that allowed diagnostic accuracy to be calculated.
269	Title: An evaluation of the diagnostic value of different skin tests with egg in clinically egg-allergic children having atopic dermatitis Authors: Hansen TK;Host A;Bindslev-Jensen C; Journal: Pediatric Allergy and Immunology Year: 2004 Oct	This is a report of a case-control study comparing the results of skin prick, SAFT, and atopy patch testing for egg allergy. The authors quote sensitivity and specificity data but these appear to be the proportion of positive results rather than sensitivity
270	Title: The diagnosis and management of egg allergy Authors: Heine RG;Laske N;Hill DJ; Journal: Current Allergy and Asthma Reports Year: 2006 Mar	A narrative on the diagnosis and management of egg allergy - background information.
271	Title: Clinical manifestations of cows' milk allergy in childhood. II. The diagnostic value of skin tests and RAST Authors: Hill DJ;Duke AM;Hosking CS;Hudson IL; Journal: Clinical Allergy Year: 1988 Sep	Population included was not stated to have atopic eczema.
272	Title: Combination of patch test and IgE for dust mite antigens differentiates 130 patients with atopic dermatitis into four groups Authors: Imayama S;Hashizume T;Miyahara H;Tanahashi T;Takeishi M;Kubota Y;Koga T;Hori Y;Fukuda H; Journal: Journal of the American Academy of Dermatology Year: 1992 Oct	The mean age of the population was 20.4 years. The proportion of children aged under 12 years was not stated, and no data were reported separately for this group.
273	Title: Allergy skin testing: comparison of conventional and new techniques Authors: James JM;Simons FE; Journal: Canadian Medical Association Journal Year: 1979 Feb 3	This paper considers the technology behind allergy skin testing in 20 children aged 8-16 years who had asthma, atopic eczema, or rhinitis. Not relevant to the guideline questions.
274	Title: Evaluation of laboratory tests in childhood allergy. Total serum IgE , blood eosinophilia and eosinophil and mast cells in nasal mucosa of 178 children aged 3 years Authors: Kajosaari M;Saarinen UM; Journal: Allergy Year: 1981	The population evaluated was healthy newborn infants, not children with atopic eczema.
275	Title: Time course of total and food specific IgE antibodies(Rast Fx5) in the developing allergic child Authors: Kalach N;Soulaines P;Guerin S;de BD;Dupont C; Journal: Allergie et Immunologie Year: 2005	The purpose of the study was to analyse the evolution of total and food specific IgE titres in the course of food allergy in children - not relevant to guideline questions. Not a diagnostic accuracy study.
276	Title: Prick Skin Test Results in Children Less Than Three Years-Old Authors: Karakoc GB;Altintas DU;Yilmaz M;Kendirli SG; Journal: Annals of Medical Sciences Year: 2003	This study includes children with asthma and rhinitis, including 31% with atopic eczema. However no data were reported separately for children with atopic eczema, and no diagnostic accuracy data.
277	Title: Differences in skin-prick and patch-test reactivity are related to the heterogeneity of atopic eczema in	This study compares the results of skin prick and atopy patch testing to

Reference ID	Bibliographic information	Reason for rejecting
	infants Authors: Kekki OM;Turjanmaa K;Isolauri E; Journal: Allergy Year: 1997 Jul	double-blind and placebo food challenges. The data are not reported in a way that allows the diagnostic accuracy of the tests to be calculated.
278	Title: Evaluation of the utility of atopy patch testing, skin prick testing, and total and specific IgE assays in the diagnosis of cow's milk allergy Authors: Keskin O;Tuncer A;Adalioglu G;Sekereel BE;Sackesen C;Kalayci O; Journal: Annals of Allergy, Asthma, and Immunology Year: 2005 May	Participants were not reported to have atopic eczema.
279	Title: Allergic and irritant patch test reactions and atopic disease Authors: Klas PA;Corey G;Storrs FJ;Chan SC;Hanifin JM; Journal: Contact Dermatitis Year: 1996 Feb	Beyond scope of guideline; the study aimed to examine the relationship between allergic contact dermatitis and atopy in a contact dermatitis clinic population.
280	Title: Epicutaneous patch test reactions in atopic dermatitis patients Authors: Kuljanac I;Knezevic E;Cvitanovic H; Journal: Acta Dermatovenerologica Croatica Year: 2005	The mean age of the study population was 35 years (6-77 years). Only the proportion of positive results to 22 allergens was reported - no diagnostic accuracy data.
281	Title: Evaluation of patch test with dimethylsulfoxide in association with lymphocyte proliferation in food-sensitive atopic dermatitis Authors: Kuwabara N;Kondo N;Fukutomi O;Agata H;Orii T; Journal: Pediatric Asthma Allergy and Immunology Year: 1993	The study considered the evaluation of patch tests with dimethylsulfoxide in association with lymphocyte proliferation responses - not relevant to the guideline questions.
282	Title: Studies of atopic patch tests Authors: Langeland T;Braathen LB;Borch M; Journal: Acta Dermatovenerologica Year: 1989	The mean age of the population was 26 years. The proportion of children aged under 12 years was not stated, and no data were reported separately for this group.
283	Title: Clinical application of histamine prick test for food challenge in atopic dermatitis Authors: Lee S;Noh GW;Lee KY; Journal: Journal of Korean Medical Science Year: 2001 Jun	The age of the population ranged from 11-31 years. The proportion of children aged under 12 years was not stated, and no data were reported separately for this group.
284	Title: Specific problems of allergy diagnosis in children Authors: Leupold W;Hirsch T; Journal: Allergologie Year: 1997	Only the abstract of the paper was in English. The remainder of the paper was in a foreign language.
285	Title: North American Contact Dermatitis Group patch-test results, 1998 to 2000 Authors: Marks Jr JG;Belsito DV;DeLeo VA;Fowler Jr JF;Fransway AF;Maibach HI;Mathias CGT;Pratt MD;Rietschel RL;Sherertz EF;Storrs FJ;Taylor JS; Journal: American Journal of Contact Dermatitis Year: 2003	This paper reports the proportion of positive results (contact dermatitis) to specific allergens. This does not address the guideline questions.
286	Title: Patch test response to house dust mites is positive in children with atopic dermatitis and in their parents. [33 refs] Authors: Meglio P;Milita O;Businco L; Journal: Journal of Investigational Allergology and Clinical Immunology Year: 1996 May	This study does not include diagnostic accuracy data for the patch test in children with atopic eczema.
287	Title: The use of two multitest fx5 and fx10 in the diagnosis of food allergy in children: Regarding 42 cases Authors: Moneret-Vautrin DA;Fremont S;Kanny G;Dejardin G;Hatahet R;Nicolas JP; Journal: Allergie et Immunologie Year: 1995	This study includes children with asthma, urticaria and angioedema, digestive symptoms, anaphylactic shock, 'oral syndrome', including 41% with atopic eczema. However no data were reported separately for children with atopic eczema.
288	Title: Patch testing in infants Authors: Motolese A;Manzini BM;Donini M; Journal: American Journal of Contact Dermatitis Year: 1995	Beyond scope of guideline - the study aimed to evaluate the frequency of contact sensitisation in infancy.
289	Title: Skin prick tests and in vitro immunoassays with native spices and spice extracts Authors: Niinimaki A;Hannuksela M;Makinen-Kiljunen S; Journal: Annals of Allergy, Asthma, and Immunology Year: 1995 Sep	This study reported the prevalence of positive skin prick tests and in-vitro immunoassays to native spices and spice extracts. No diagnostic accuracy data therefore this is not relevant to the guideline questions.
290	Title: Food-induced contact urticaria syndrome (CUS) in atopic dermatitis: reproducibility of repeated and duplicate testing with a skin provocation test, the skin application food test (SAFT) Authors: Oranje AP;Van GD;Mulder PG;Dieges PH; Journal: Contact Dermatitis Year: 1994 Nov	The purpose of the study was to determine whether contact urticaria syndrome could be provoked. Not relevant to this guideline.
291	Title: The diagnostic accuracy of the atopy patch test in diagnosing hypersensitivity to cow's milk and hen's egg in unselected children with and without atopic dermatitis Authors: Osterballe M;Andersen KE;Bindslev-Jensen C; Journal: Journal of the American Academy of Dermatology Year: 2004 Oct	Only 12% of the children included in this study had atopic eczema.
292	Title: Results of patch testing in children Authors: Pambor M;Kruger G;Winkler S; Journal: Contact Dermatitis Year: 1992 Nov	This paper reports the proportion of positive and negative patch test results to 11 irritants in children with atopic eczema compared to

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Reference ID	Bibliographic information	Reason for rejecting
293	Title: Mite patch testing in atopic eczema: a search for correct concentration Authors: Pigatto PD;Bigardi AS;Valsecchi RH;Di LA; Journal: Australasian Journal of Dermatology Year: 1997 Nov	those without atopic disease. This is not a diagnostic accuracy study. This study compares the rate of positive tests when different concentrations of house dust mite antigen were used for patch testing. No diagnostic accuracy data.
294	Title: Different role of secretory IgA in the pathogenesis of RAST-positive and RAST-negative atopic dermatitis Authors: Plebani A;Monafo V;Cespa M;Giannetti A;Ugazio AG; Journal: Clinical Allergy Year: 1982 Jul	The study looked at the role of IgA in the pathogenesis of RAST positive and RAST negative atopic eczema. Not relevant to the guideline questions.
295	Title: Basophil histamine release in children with adverse reactions to cow milk. Comparison with RAST and skin prick test Authors: Prah P;Krasilnikof F;Stahl SP;Norn S; Journal: Allergy Year: 1988 Aug	Children studied not stated to have atopic eczema.
296	Title: Diagnostic value of skin and laboratory tests in cow's milk allergy/intolerance Authors: Rasanen L;Lehto M;Reunala T; Journal: Clinical and Experimental Allergy Year: 1992 Mar	The study described reactions to different in vivo/in vitro tests (basophil histamine release tests and lymphocyte proliferation tests) for determination of cow's milk allergy. The tests were not compared to a gold standard, therefore no diagnostic accuracy
297	Title: Role of the skin patch test in diagnosing food allergy in children with atopic dermatitis Authors: Rokaite R;Labanauskas L;Vaideliene L; Journal: Medicina (Kaunas, Lithuania) Year: 2004	Abstract written in English. The remainder of the paper was in a foreign language.
298	Title: Usefulness of the European standard series for patch testing in children. A 3-year single-centre study of 337 patients Authors: Roul S;Ducombs G;Taieb A; Journal: Contact Dermatitis Year: 1999 May	This paper reports the prevalence of contact dermatitis in children tested to 34 allergens. Overall 76% had atopic eczema at baseline. The data are not relevant to the guideline scope.
299	Title: Patch testing in children Authors: Rudzki E;Grzywa Z;Rebandel P; Journal: Contact Dermatitis Year: 1987 Aug	This paper reports the findings of patch testing in vague terms in children attending a dermatology clinic. The proportion with atopic eczema was not stated, and the methods of testing were not reported in detail - only the proportion of positive results
300	Title: RAST and PRIST in children with atopic dermatitis Authors: Rudzki E;Litewska D; Journal: Dermatologica Year: 1990	Although children with atopic eczema are included, the study also includes those with allergic respiratory disease. Data were not reported separately for those with atopic eczema.
301	Title: Patch test reactions to the acetone-soluble fraction of human dander in atopic dermatitis Authors: Sasaki K;Sugiura H;Uehara M; Journal: Dermatology Year: 1994	Study aimed to clarify whether or not ether- or acetone-soluble fraction of human dander had antigenicity for immediate-type or delayed-type skin reactions. Not relevant to the guideline questions.
302	Title: Patch testing with pollens of Gramineae in patients with atopic dermatitis and mucosal atopy Authors: Seidenari S;Manzini BM;Danese P; Journal: Contact Dermatitis Year: 1992 Aug	Editorial - used as background information.
303	Title: Positive patch tests to whole mite culture and purified mite extracts in patients with atopic dermatitis, asthma, and rhinitis Authors: Seidenari S;Manzini BM;Danese P;Giannetti A; Journal: Annals of Allergy Year: 1992 Sep	This study reports the prevalence of positive patch tests to house dust mite - no diagnostic accuracy data were reported.
304	Title: Frequency and intensity of responses to mite patch tests are lower in nonatopic subjects with respect to patients with atopic dermatitis Authors: Seidenari S;Giusti F;Pellacani G;Bertoni L; Journal: Allergy Year: 2003 May	This study assesses the frequency and intensity of responses to house dust mite on atopy patch tests - not the diagnostic accuracy of the test.
305	Title: Patch testing in children and adolescents: five years' experience and follow-up Authors: Shah M;Lewis FM;Gawkrödger DJ; Journal: Journal of the American Academy of Dermatology Year: 1997 Dec	The report documents the authors' patch test results over 5 years - not a diagnostic accuracy study.
306	Title: Skin test reactivity to histamine from infancy to old age Authors: Skassa-Brociek W;Manderscheid JC;Michel FB;Bousquet J; Journal: Journal of Allergy and Clinical Immunology Year: 1987 Nov	None of the participants had skin disease.
307	Title: Skin tests and atopic allergy in children Authors: Smith JM; Journal: Clinical Allergy Year: 1973 Sep	This study includes children with asthma and atopic disease. The proportion with atopic eczema was not stated, and no data were reported separately for this group.
308	Title: Patch testing in children Authors: Stables GI;Forsyth A;Lever RS; Journal: Contact Dermatitis Year: 1996 May	This study considers the prevalence of contact dermatitis in children with non-atopic localised dermatitis, juvenile plantar dermatosis, orofacial granulomatosis, vaccination reaction, atypical psoriasis, and

Reference ID	Bibliographic information	Reason for rejecting
		atopic eczema. This is not relevant to the guideline.
309	Title: Study on specific immunotherapy with the aid of 3M Diagnostic Systems' tests Authors: Stasiak-Barmuta A;Dabrowska I;Piotrowska T;Hofman J; Journal: Pneumonologia i Alergologia Polska Year: 1992	The population included has a variety of atopic conditions - the minority had atopic eczema. Also, no diagnostic accuracy data were reported.
310	Title: Correlation of the modified scratch test with the radioallergosorbent test (RAST) in atopic children Authors: Sumpaico M;Kuno-Sakai H;Asano M;Takakura I;Kimura M; Journal: Tokai Journal of Experimental and Clinical Medicine Year: 1985 Apr	This study includes children with bronchial asthma, allergic rhinitis, and atopic eczema. However no data were reported separately for children with atopic eczema.
311	Title: The predictive value of screening tests for food allergy in infants with atopic dermatitis Authors: Taieb A;Debons M;Maleville J; Journal: Acta Dermato-Venereologica Year: 1992	Abstract publication - insufficient detail to provide any useful data.
312	Title: Evaluation of RAST in atopic dermatitis Authors: Takahashi I;Akiyama T;Yamaura H;Sasaoka K;Anan S; Journal: Journal of Dermatology Year: 1977 Dec	This study includes children with asthma and/or allergic rhinitis, including 81% with atopic eczema. However no data were reported separately for children with atopic eczema, and no diagnostic accuracy data.
313	Title: Immunohistochemical studies on dust mite antigen in positive reaction site of patch test Authors: Tanaka Y;Tanaka M;Anan S;Yoshida H; Journal: Acta Dermato-Venereologica Year: 1989	The age of the population ranged from 2-25 years. The proportion of children aged less than 12 years was not stated, and no data were reported separately for this group.
314	Title: 'Atopy patch tests' in the diagnosis of delayed food hypersensitivity Authors: Turjanmaa K; Journal: Allergie et Immunologie Year: 2002	Narrative review - used as background information.
315	Title: Pustular patch test reactions in atopic dermatitis Authors: Uehara M;Takahashi C;Ofuji S; Journal: Archives of Dermatology Year: 1975 Sep	An article on pustular patch test reactions in atopic eczema - not a clinical trial.
316	Title: Patch test reactions to human dander in atopic dermatitis Authors: Uehara M;Ofuji S; Journal: Archives of Dermatology Year: 1976 Jul	The population used as control group was inappropriate (it was adults with contact dermatitis).
317	Title: Skin test reactivity and clinical allergen sensitivity in infancy Authors: van Asperen PP;Kemp AS;Mellis CM; Journal: Journal of Allergy and Clinical Immunology Year: 1984 Mar	Infants included in the study were not stated to have atopic eczema.
318	Title: The utility of patch testing children with atopic dermatitis. [30 refs] Authors: Vender RB; Journal: Skin Therapy Letter Year: 2002 Jun	Narrative review - used as background information.
319	Title: Food allergy in atopic dermatitis. Diagnosis of food sensitivity using patch tests Authors: Walsh WE; Journal: Minnesota Medicine Year: 1975 Apr	Case reports of experience with food patch tests followed by challenge tests in patients with AE.
320	Title: Effect of mattress encasings on atopic dermatitis outcome measures in a double-blind, placebo-controlled study: the Dutch mite avoidance study Authors: Oosting AJ; Journal: The Journal of allergy and clinical immunology Year: 2002 Sep	The age of the population ranged from 8 to 50 years. The proportion of children aged under 12 years was not stated, and no data were reported separately for this group.
321	Title: Maternal dietary antigen avoidance during pregnancy or lactation, or both, for preventing or treating atopic disease in the child Authors: Kramer MS; Journal: Cochrane Database of Systematic Reviews Year: 2007	A review - contains one relevant paper already included
322	Title: A new model for low-dose food challenge in children with allergy to milk or egg Authors: Devenney I; Journal: Acta Paediatrica Year: 2006 Sep	Not a diagnostic accuracy study.
157	Title: Epidemiology of atopy in 220 children. Diagnostic reliability of skin prick tests and total and specific IgE levels Authors: Cantani A;Micera M; Journal: Minerva Pediatrica Year: 138	Epidemiological study. The population had asthma (46%), atopic eczema (40%), or rhinitis (14%). No complete data were reported for those with atopic eczema.
222	Title: Sensitization to food and aeroallergens in children with atopic dermatitis seen at the University of Santo Tomas Hospital Allergy Clinic Authors: Vicencio JCA;Gonzalez-Andaya AM; Journal: Santo Tomas Journal of Medicine Year: 2005	This study reports the proportion of positive test results on skin prick testing but does not consider the diagnostic accuracy of the test.
323	Title: Status of children with cow's milk allergy in infancy by 10 years of age Authors: Tikkanen S;Kokkonen J;Juntti H;Niinimaki A; Journal: Acta Paediatrica Year: 2000 Oct	Population evaluated not stated to have atopic eczema.
324	Title: The effect of hydrolyzed cow's milk formula for allergy prevention in the first year of life: the German Infant Nutritional Intervention Study, a randomized double-blind trial.[see comment] Authors: von	The study considers the prevention of atopy, which is outside the

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Reference ID	Bibliographic information	Reason for rejecting
	BA;Koletzko S;Grubl A;Filipiak-Pittroff B;Wichmann HE;Bauer CP;Reinhardt D;Berdel D;German Infant Nutritional Intervention Study Group.; Journal: Journal of Allergy and Clinical Immunology Year: 2003 Mar	guideline scope.
325	Title: Food immediate-contact hypersensitivity (FICH) and elimination diet in young children with atopic dermatitis. Preliminary results in 107 children Authors: Oranje AP;Aarsen RS;Mulder PG;van Toorenenbergen AW;Liefwaard G;Dieges PH; Journal: Acta Dermato-Venereologica Year: 1992	The study compared the results of SAFT and IgE tests, but in terms of correlation rather than diagnostic accuracy.
326	Title: Standardization of double-blind, placebo-controlled food challenges Authors: Bindslev-Jensen C; Journal: Allergy Year: 2001	Narrative review – used as background information.
327	Title: Food allergy challenges: guidelines and implications Authors: Leinhas JL;McCaskill CC;Sampson HA; Journal: Journal of the American Dietetic Association Year: 1987 May	Narrative review/ general discussion paper - background information.
328	Title: Probiotics and eczema prevention: a randomized study Journal: Nutrition and the M D Year: 2004	This publication is a brief report of an RCT evaluating the use of probiotics for eczema (not the primary publication).
329	Title: Potential efficacy of low metal diets and dental metal elimination in the management of atopic dermatitis: An open clinical study Authors: Adachi A;Horikawa T;Takashima T;Komura T;Komura A;Tani M;Ichihashi M; Journal: Journal of Dermatology Year: 1997	The age of the population ranged from 9-40 years (mean 22.8 years). The proportion of children aged under 12 years was not stated, and no data were reported separately for this group.
330	Title: Oral allergy syndrome (OAS): symptoms of IgE-mediated hypersensitivity to foods Authors: Amlot PL;Kemeny DM;Zachary C;Parkes P;Lessof MH; Journal: Clinical Allergy Year: 1987 Jan	The age of the population ranged from 2-41 years (mean age 20 years). No data were reported separately for the children aged under 12 years.
331	Title: Food allergy in children: diagnosis and treatment with sodium cromoglycate. [38 refs] Authors: Businco L;Cantani A; Journal: Allergologia et Immunopathologia Year: 1990 Nov	Narrative article - not a trial.
332	Title: Egg and cows' milk hypersensitivity in exclusively breast fed infants with eczema, and detection of egg protein in breast milk Authors: Cant A;Marsden RA;Kilshaw PJ; Journal: British Medical Journal Year: 1985 Oct 5	This paper generates a hypothesis that changing the mothers diet affects the child's eczema, which was tested in a later RCT. The data in the paper are not relevant to the identification or management of trigger factors.
333	Title: Serum immunoglobulin E concentrations and radioallergosorbent tests in children with atopic dermatitis Authors: Church JA;Kleban DG;Bellanti JA; Journal: Pediatric Research Year: 1976 Feb	This study includes children with allergic rhinitis, asthma, and atopic eczema. However no data were reported separately for children with atopic eczema.
334	Title: Egg white-specific IgE level as a tolerance marker in the follow up of egg allergy Authors: Crespo JF;Pascual C;Ferrer A;Burks AW;az Pena JM;Martin EM; Journal: Allergy Proceedings Year: 1994 Mar	Population evaluated did not have atopic eczema. Background information.
335	Title: Identification of casein as the major allergenic and antigenic protein of cow's milk Authors: Docena GH;Fernandez R;Chirido FG;Fossati CA; Journal: Allergy Year: 1996	Participants evaluated not reported to have atopic eczema.
336	Title: Are specific immunoglobulin E titres reliable for prediction of food allergy?[comment][erratum appears in Clin Exp Allergy. 2005 Jul;35(7):979] Authors: Eigenmann PA; Journal: Clinical and Experimental Allergy Year: 2005 Mar	Narrative review - used as background information.
337	Title: Diagnostic value of IgG4 measurements in patients with food allergy Authors: el RA;Peters SM;Harris N;Bellanti JA; Journal: Annals of Allergy Year: 1989 Feb	Purpose of the study was to evaluate the pathogenic role of IgG4 antibody in patients with food allergy and determination of its biological function. Not relevant to the guideline questions.
338	Title: Food hypersensitivity in two groups of children and young adults with atopic dermatitis evaluated a decade apart Authors: Ellman LK;Chatchatee P;Sicherer SH;Sampson HA; Journal: Pediatric Allergy and Immunology Year: 2002 Aug	Consider for epidemiology section.
339	Title: Food allergens as causative factors of respiratory, skin and gastrointestinal allergy confirmed by skin prick test and specific IgE and IgG4 FAST in children Authors: Hofman T;Hanasz-Jarzynska T; Journal: Pneumonologia i Alergologia Polska Year: 1992	This study includes children with allergic rhinitis, bronchial asthma, urticaria, angio-oedema, and atopic eczema. However no data were reported separately for children with atopic eczema.
340	Title: Whey and casein specific IgE and the cow's milk challenge test for atopic children Authors: Lin HY;Shyur SD;Fu JL;Lai YC; Journal: Chung-Hua Min Kuo Hsiao Erh Ko i Hsueh Hui Tsa Chih Year: 1998 Mar	This study includes children with suspected milk allergy, and asthma and/or allergic rhinitis, including 3.3% (n = 1) with atopic eczema. No data were reported separately for the child with atopic eczema.

Reference ID	Bibliographic information	Reason for rejecting
341	Title: Value of the RAST Fx5 in atopic eczema and food allergies in the child Authors: Moisan V;Bremont F;Abbal M;Dutau G; Journal: Revue Francaise d Allergologie et d Immunologie Clinique Year: 1990	Only the abstract was in English; the remainder of the study was written in a foreign language.
342	Title: Sensitization to hen's egg at the age of twelve months is predictive for allergic sensitization to common indoor and outdoor allergens at the age of three years Authors: Nickel R;Kulig M;Forster J;Bergmann R;Bauer CP;Lau S;Guggenmoos-Holzmann I;Wahn U; Journal: Journal of Allergy and Clinical Immunology Year: 1997 May	Narrative review - used as background information.
343	Title: Immediate contact reactions to cow's milk and egg in atopic children Authors: Oranje AP;Aarsen RS;Mulder PG;Liefwaard G; Journal: Acta Dermato-Venereologica Year: 1991	This study includes children with asthma , gastrointestinal problems and atopic eczema. However no data were reported separately for children with atopic eczema.
344	Title: The role of cow milk allergy in increasing the severity of atopic dermatitis Authors: Pourpak Z;Farhoudi A;Mahmoudi M;Movahedi M;Ghargozlou M;Kazemnejad A;Eslamnoor B; Journal: Immunological Investigations Year: 2004 Feb	This study does not evaluate the diagnostic accuracy of testing for cow's milk allergy.
345	Title: Labial food challenge in children with food allergy.[see comment] Authors: Rance F;Dutau G; Journal: Pediatric Allergy and Immunology Year: 1997 Feb	This study includes children with asthma, angio-oedema, anaphylaxis, rhinoconjunctivitis and atopic eczema. However no data were reported separately for children with atopic eczema.
346	Title: Food hypersensitivity in children: clinical aspects and distribution of allergens Authors: Rance F;Kanny G;Dutau G;Moneret-Vautrin DA; Journal: Pediatric Allergy and Immunology Year: 1999 Feb	This study includes children with asthma, angioedema, urticaria, anaphylaxis and atopic eczema. No data were reported separately for those with atopic eczema.
347	Title: Use of prick-tests in the screening of immediate allergy to protein: 16 cases Authors: Rance F;Brondeau V;Abbal M; Journal: Allergie et Immunologie Year: 2002 Mar	No diagnostic accuracy data.
348	Title: Food allergy and non-allergic food hypersensitivity in children and adolescents Authors: Roehr CC;Edenharter G;Reimann S;Ehlers I;Worm M;Zuberbier T;Niggemann B; Journal: Clinical and Experimental Allergy Year: 2004 Oct	Participants were not reported to have atopic eczema.
349	Title: Does food allergy cause atopic dermatitis? Food challenge testing to dissociate eczematous from immediate reactions Authors: Rowlands D;Tofte SJ;Hanifin JM; Journal: Dermatologic Therapy Year: 2006	This study did not evaluate the diagnostic accuracy of different tests.
350	Title: Increased plasma histamine concentrations after food challenges in children with atopic dermatitis Authors: Sampson HA;Jolie PL; Journal: New England Journal of Medicine Year: 1984 Aug 9	This study investigated whether cutaneous symptoms induced by foods correlated with the release of mast-cell mediators (increasing histamine concentrations), that is it considers the mechanism of cutaneous reactions rather than comparing a test with a test.
351	Title: Immediate hypersensitivity reactions to foods: blinded food challenges in children with atopic dermatitis Authors: Sampson HA; Journal: Annals of Allergy Year: 1986 Sep	This study reports the proportion of positive results to skin prick and food challenge testing but the insufficient data are presented to calculate diagnostic accuracy of the skin prick test.
352	Title: Dose-response in double-blind, placebo-controlled oral food challenges in children with atopic dermatitis Authors: Sicherer SH;Morrow EH;Sampson HA; Journal: The Journal of allergy and clinical immunology Year: 2000 Mar	This study considered the quantity of food needed to elicit reactions during a placebo-controlled double-blind food challenge - but does not consider how using different quantities of foods affects diagnostic accuracy.
353	Title: Probiotics in the treatment and prevention of food allergy - Systematic review Authors: Szajewska H;Mrokowicz JZ; Journal: Padiatria Wspolczesna Year: 2002	Abstract in English, but the remainder of the paper was only published in a foreign language.
354	Title: Extensively and partially hydrolysed preterm formulas in the prevention of allergic diseases in preterm infants: a randomized, double-blind trial Authors: Szajewska H;Mrukowicz JZ;Stoinska B;Prochowska A; Journal: Acta Paediatrica Year: 2004 Sep	The study considers primary prevention of atopic eczema which is outside the guideline scope.
355	Title: The effect of hypoallergenic formula on the occurrence of allergic diseases in high risk infants Authors: Tsai YT;Chou CC;Hsieh KH; Journal: Chung-Hua Min Kuo Hsiao Erh Ko i Hsueh Hui Tsa Chih Year: 1991 May	The study considers primary prevention of atopic eczema which is outside the guideline scope.
356	Title: Dermatitis induced or aggravated by selected foodstuffs Authors: Veien NK;Hattel T;Justesen O;Norholm A; Journal: Acta Dermato-Venereologica Year: 1987	The mean age of the population was 32 years. The proportion of children aged less than 12 years was not stated, and no data were

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Reference ID	Bibliographic information	Reason for rejecting
		reported separately for this group.
357	Title: Correlation between age and allergens in pediatric atopic dermatitis Authors: Wang J;Lin YT;Yang YH;Chen CL;Tsai YH;Chiang BL;Hwang KC; Journal: Annals of Allergy, Asthma, and Immunology Year: 2004 Oct	This study includes children with asthma, allergic rhinitis, and 55% with atopic eczema. However no data were reported separately for children with atopic eczema.
358	Title: Hypoallergenic cupcake is a useful product for wheat-sensitive allergic patients Authors: Yamamoto A;Tanabe S;Kojima T;Sasai M;Hatano Y;Watanabe M;Kobayashi Y;Taniuchi S; Journal: Journal of Applied Research Year: 2004	A small pilot study evaluating the number of positive IgE results to a hypoallergenic cupcake in children allergic to wheat. Not a diagnostic accuracy study.
359	Title: Acute allergic reactions in children with AEDS after prolonged cow's milk elimination diets Authors: Flinterman AE; Journal: Allergy Year: 2006 Mar	About effects of exclusion diet and not specific to triggers for eczema
Reference ID	Bibliographic information	Reason for rejecting study
224	Authors: Adler UC;. Title: The influence of childhood infections and vaccination on the development of atopy: A systematic review of the direct epidemiological evidence. Journal Name: Homeopathy 2005 Jul. Year:	looking at incidence of AE. Beyond interest of scope.
188	Authors: Alfvén T;Braun-Fahrlander C;Brunekreef B;von ME;Riedler J;Scheynius A;van HM;Wickman M;Benz MR;Budde J;Michels KB;Schram D;Ublagger E;Waser M;Pershagen G;. Title: Allergic diseases and atopic sensitization in children related to farming and anthroposophic lifestyle - The PARSIFAL study. Journal Name: Allergy. Year: 2006	Not relevant. Compared the prevalence of allergic disease and sensitization in between farm kids
211	Authors: Almqvist C;Egmar AC;van Hage-Hamsten M;Berglund N;Pershagen G;Nordvall SL;Svartengren M;Hedlin G;Wickman M;. Title: Heredity, pet ownership, and confounding control in a population-based birth cohort. Journal Name: Journal of Allergy and Clinical Immunology. Year: 2003 Apr	Looking at prevalence of pet exposure associated with family history , SES and smoking.
210	Authors: Angioni AM;Fanciulli G;Corchia C;. Title: Frequency of and risk factors for allergy in primary school children: results of a population survey. Journal Name: Paediatric and Perinatal Epidemiology. Year: 1989 Jul	small sampling frame 41 out of 238 inadequate information on study methodology.
360	Authors: Arshad SH;Stevens M;Hide DW;. Title: The effect of genetic and environmental factors on the prevalence of allergic disorders at the age of two years. Journal Name: Clinical and Experimental Allergy. Year: 1993 Jun	Outcomes of interest were asthma and rhinitis, not eczema
361	Authors: Atherton DJ;Sewell M;Soothill JF;Wells RS;Chilvers CE;. Title: A double-blind controlled crossover trial of an antigen-avoidance diet in atopic eczema. Journal Name: Lancet. Year: 1978 Feb 25	More appropriate for question 4.
362	Authors: Baehler P;Chad Z;Gurbindo C;Bonin AP;Bouthillier L;Seidman EG;. Title: Distinct patterns of cow's milk allergy in infancy defined by prolonged, two-stage double-blind, placebo-controlled food challenges.[see comment]. Journal Name: Clinical and Experimental Allergy. Year: 1996 Mar	about manifestations of cow's milk allergy
363	Authors: Beck HI;Hagdrup HK;. Title: Atopic dermatitis, house dust mite allergy and month of birth. Journal Name: Acta Dermato-Venereologica. Year: 1987	Participants included in study also had bronchial asthma. Study was retrospective
364	Authors: Benn CS;Melbye M;Wohlfahrt J;Bjorksten B;Aaby P;. Title: Cohort study of sibling effect, infectious diseases, and risk of atopic dermatitis during first 18 months of life. Journal Name: British Medical Journal. Year: 2004	not relevant. How infectious disease affects development of eczema
365	Authors: Bergmann RL;Diepgen TL;Kuss O;Bergmann KE;Kujat J;Dudenhausen JW;Wahn U;. Title: Breastfeeding duration is a risk factor for atopic eczema. Journal Name: Clinical and Experimental Allergy. Year: 2002	About duration of breast feeding and it's influence on risk of Atopic eczema.
366	Authors: Bohme M;Wickman M;Lennart NS;Svartengren M;Wahlgren CF;. Title: Family history and risk of atopic dermatitis in children up to 4 years. Journal Name: Clinical and Experimental Allergy. Year: 2003 Sep	Not relevant to the guideline question on epidemiology.
198	Authors: Bolte G;Bischof W;Borte M;Lehmann I;Wichmann HE;Heinrich J;LISA Study Group;. Title: Early endotoxin exposure and atopy development in infants: results of a birth cohort study. Journal Name: Clinical and Experimental Allergy. Year: 2003 Jun	about effect of early endotoxin exposure and atopy development in infants- not relevant.
367	Authors: Breuer K;Heratizadeh A;Wulf A;Baumann U;Constien A;Tetau D;Kapp A;Werfel T;. Title: Late eczematous reactions to food in children with atopic dermatitis. Journal Name: Clinical and Experimental	More appropriate for Question 4

Reference ID	Bibliographic information	Reason for rejecting study
	Allergy. Year: 2004 May	
203	Authors: Burr ML;Miskelly FG;Butland BK;Merrett TG;Vaughan-Williams E;. Title: Environmental factors and symptoms in infants at high risk of allergy.[see comment]. Journal Name: Journal of Epidemiology and Community Health. Year: 1989 Jun	Paper did not look at eczema
159	Authors: Cudowska B;Kaczmarek M;. Title: Atopy patch test in the diagnosis of food allergy in children with atopic eczema dermatitis syndrome. Journal Name: Roczniki Akademii Medycznej W Białymstoku. Year: 2005	Looking at the atopy patch test in diagnosis of food allergy.
197	Authors: De MG;Janssen NAH;Brunekreef B;. Title: Early childhood environment related to microbial exposure and the occurrence of atopic disease at school age. Journal Name: Allergy. Year: 2005	Not applicable to guideline scope. About incidence of Atopic eczema
368	Authors: Devlin J;David TJ;Stanton RH;. Title: Elemental diet for refractory atopic eczema. Journal Name: Archives of Disease in Childhood. Year: 1991 Jan	about treatment of refractory Atopic eczema
202	Authors: Dunlop AL;Reichrtova E;Palcovicova L;Ciznar P;mcakova-Dodd A;Smith SJ;McNabb SJN;. Title: Environmental and dietary risk factors for infantile atopic eczema among a Slovak birth cohort. Journal Name: Pediatric Allergy and Immunology. Year: 2006	focus of study is Asthma prevention
369	Authors: Ehlers I;Worm M;Sterry W;Zuberbier T;. Title: Sugar is not an aggravating factor in atopic dermatitis. Journal Name: Acta Dermato-Venereologica. Year: 2001 Aug	small sampling frame-9 children study looked to determine if sugar was an aggravating factor of eczema.
370	Authors: Fergusson DM;Crane J;Beasley R;Horwood LJ;. Title: Perinatal factors and atopic disease in childhood.[see comment]. Journal Name: Clinical and Experimental Allergy. Year: 1997 Dec	inadequate definition of outcome, huge selection and misclassification bias.
371	Authors: Fergusson DM;Horwood LJ;. Title: Parental smoking and respiratory illness during early childhood: a six-year longitudinal study. Journal Name: Pediatric Pulmonology. Year: 1985 Mar	association between parental smoking and lower respiratory illness
372	Authors: Fergusson DM;Horwood LJ;Shannon FT;. Title: Risk factors in childhood eczema. Journal Name: Journal of Epidemiology and Community Health. Year: 1982 Jun	Looking at risks of atopic eczema in childhood.
161	Authors: Fergusson DM;Horwood LJ;Shannon FT;. Title: Early solid feeding and recurrent childhood eczema: a 10-year longitudinal study. Journal Name: Pediatrics. Year: 1990 Oct	Consider for epidemiology.
192	Authors: Friday GA;Smith J;. Title: Breast-feeding and atopic dermatitis. Journal Name: Pediatric Asthma Allergy and Immunology. Year: 2000	retrospective study
373	Authors: Graif Y;Garty B;Livne I;Green MS;Shohat T;. Title: Prevalence and risk factors for allergic rhinitis and atopic eczema among schoolchildren in Israel: Results from a national study. Journal Name: Annals of Allergy, Asthma, and Immunology. Year: 2004	Beyond age bracket
216	Authors: Hagendorens MM;Bridts CH;Lauwers K;Van NS;Ebo DG;Vellinga A;De Clerck LS;Van Bever HP;Weyler JJ;Stevens WJ;. Title: Perinatal risk factors for sensitization, atopic dermatitis and wheezing during the first year of life (PIPO study). Journal Name: Clinical and Experimental Allergy. Year: 2005	looking at causal associations of eczema and not its trigger factors.
374	Authors: Haileamlak A;Dagoye D;Williams H;Venn AJ;Hubbard R;Britton J;Lewis SA;. Title: Early life risk factors for atopic dermatitis in Ethiopian children. Journal Name: Journal of Allergy and Clinical Immunology. Year: 2005 Feb	External generalisability not applicable to the UK.- in Ethiopian children
164	Authors: Halken S;. Title: Prevention of allergic disease in childhood: Clinical and epidemiological aspects of primary and secondary allergy prevention. Journal Name: Pediatric Allergy and Immunology, Supplement. Year: 2004	Not a study-just a report on Clinical and epidemiological aspects of primary and secondary allergy prevention.
165	Authors: Harris JM;Cullinan P;Williams HC;Mills P;Moffat S;White C;Newman Taylor AJ;. Title: Environmental associations with eczema in early life. Journal Name: British Journal of Dermatology. Year: 2001 Apr	Consider for epidemiology
375	Authors: Harving H;Korsgaard J;Dahl R;Beck HI;Bjerring P;. Title: House dust mites and atopic dermatitis. A case-control study on the significance of house dust mites as etiologic allergens in atopic dermatitis. Journal Name: Annals of Allergy. Year: 1990 Jul	restricted to adults
209	Authors: Hill DJ;Hosking CS;. Title: Food allergy and atopic dermatitis in infancy: An epidemiologic study.	Consider for epidemiology

Atopic eczema in children

Reference ID	Bibliographic information	Reason for rejecting study
	Journal Name: Pediatric Allergy and Immunology. Year: 2004	
376	Authors: Hill DJ;Hosking CS;Heine RG;. Title: Clinical spectrum of food allergy in children in Australia and South-East Asia: Identification and targets for treatment. Journal Name: Annals of Medicine. Year: 1999	Not relevant. About spectrum of food allergy and its management.
377	Authors: Hill DJ;Sporik R;Thorburn J;Hosking CS;. Title: The association of atopic dermatitis in infancy with immunoglobulin E food sensitization. Journal Name: Journal of Pediatrics. Year: 2000 Oct	study does not focus on trigger factors in each of its three groups
206	Authors: Huang JL;Chen CC;Kuo ML;Hsieh KH;. Title: Exposure to a high concentration of mite allergen in early infancy is a risk factor for developing atopic dermatitis: a 3-year follow-up study. Journal Name: Pediatric Allergy and Immunology. Year: 2001 Feb	About exposure to high concentration of mite allergen in infancy at its association with the development of atopic eczema.
378	Authors: Kawada T;. Title: Risk factors and prevalence of asthma or atopic dermatitis in young children by a questionnaire survey. Journal Name: Journal of Nippon Medical School = Nihon Ika Daigaku Zasshi. Year: 2004	Not relevant- about prevalence of Asthma in subjects with Atopic Dermatitis.
187	Authors: Kawano Y;Morikawa M;Watanabe M;Ohshiba A;Noma T;Odajima H;. Title: A study of the factors responsible for the development of allergic diseases in early life. Journal Name: Asian Pacific Journal of Allergy and Immunology. Year: 2005	Not relevant to scope- about factors responsible for the development of allergic diseases.
221	Authors: Kerkhof M;Koopman LP;Van Strient RT;Wijga A;Smit HA;Aalberse RC;Neijenst HJ;Brunekreeft B;Postma DS;Gerritsen J;. Title: Risk factors for atopic dermatitis in infants at high risk of allergy: The PIAMA study. Journal Name: Clinical and Experimental Allergy. Year: 2003	About incidence of atopic eczema.
207	Authors: Kihlstrom A;Lilja G;Pershagen G;Hedlin G;. Title: Exposure to birch pollen in infancy and development of atopic disease in childhood. Journal Name: Journal of Allergy and Clinical Immunology. Year: 2002	Influence of birch pollen of the development of atopic eczema.
379	Authors: Kihlstrom A;Lilja G;Pershagen G;Hedlin G;. Title: Exposure to high doses of birch pollen during pregnancy, and risk of sensitization and atopic disease in the child. Journal Name: Allergy. Year: 2003	Not relevant. Pregnancy exposure to birch pollen and how it affects incidence of eczema
380	Authors: Kikuchi K;Kobayashi H;O'goshi K;Tagami H;. Title: Impairment of skin barrier function is not inherent in atopic dermatitis patients: A prospective study conducted in newborns. Journal Name: Pediatric Dermatology. Year: 2006	not relevant to the question. More about the impairment of the skin barrier in atopic dermatitis patients.
381	Authors: Kilpi T;Kero J;Jokinen J;Syrjanen R;Takala AK;Hovi T;Isolauri E;. Title: Common respiratory infections early in life may reduce the risk of atopic dermatitis. Journal Name: Clinical Infectious Diseases. Year: 2002 Mar 1	not about management of trigger factors!
382	Authors: Kjellman B;Hattevig G;. Title: Allergy in early and late onset of atopic dermatitis. Journal Name: Acta Paediatrica. Year: 1994 Feb	Not a study- an editorial
383	Authors: Kurosaka F;Nakatani Y;Terada T;Tanaka A;Ikeuchi H;Hayakawa A;Konohana A;Oota K;Nishio H;. Title: Current cat ownership may be associated with the lower prevalence of atopic dermatitis, allergic rhinitis, and Japanese cedar pollinosis in schoolchildren in Himeji, Japan. Journal Name: Pediatric Allergy and Immunology. Year: 2006	looking at associations between cat ownership and eczema and not trigger properties.
384	Authors: Kurukulaaratchy R;Fenn M;Matthews S;Hasan AS;. Title: The prevalence, characteristics of and early life risk factors for eczema in 10-year-old children. Journal Name: Pediatric Allergy and Immunology. Year: 2003 Jun	not about trigger factors
212	Authors: Lange J;Ngoumou G;Berkenheide S;Moseler M;Mattes J;Kuehr J;Kopp MV;. Title: High interleukin-13 production by phytohaemagglutinin- and Der p 1-stimulated cord blood mononuclear cells is associated with the subsequent development of atopic dermatitis at the age of 3 years. Journal Name: Clinical and Experimental Allergy. Year: 2003 Nov	not relevant. About cord blood.
78	Authors: Laske N;Niggemann B;. Title: Does the severity of atopic dermatitis correlate with serum IgE levels?. Journal Name: Pediatric Allergy and Immunology. Year: 2004	Looking at the association between severity of atopic eczema and serum IgE .
385	Authors: Laubereau B;Brockow I;Zirngibl A;Koletzko S;Gruebl A;von BA;Filipiak-Pittroff B;Berdel D;Bauer CP;Reinhardt D;Heinrich J;Wichmann HE;GINI Study Group;. Title: Effect of breast-feeding on the development of atopic dermatitis during the first 3 years of life—results from the GINI-birth cohort study.[see comment]. Journal	About development of atopic eczema within the first 3 years of life due to breast feeding.

Reference ID	Bibliographic information	Reason for rejecting study
	Name: Journal of Pediatrics. Year: 2004 May	
386	Authors: Lehmann HS;Heaton T;Mallon D;Holt PG;. Title: Staphylococcal enterotoxin-B-mediated stimulation of interleukin-13 production as a potential aetiologic factor in eczema in infants. Journal Name: International Archives of Allergy and Immunology. Year: 2004 Dec	Not relevant about Staphylococcal enterotoxin-B-mediated stimulation of interleukin-13 production as a risk factor for eczema..
387	Authors: Leung R;. Title: Asthma, allergy and atopy in South-east Asian immigrants in Australia.[see comment]. Journal Name: Australian and New Zealand Journal of Medicine. Year: 1994 Jun	an editorial
218	Authors: Leung R;Ho A;Chan J;Choy D;Lai CK;. Title: Prevalence of latex allergy in hospital staff in Hong Kong. Journal Name: Clinical and Experimental Allergy. Year: 1997 Feb	beyond age bracket
388	Authors: Leung R;Ho P;. Title: Asthma, allergy, and atopy in three south-east Asian populations. Journal Name: Thorax. Year: 1994 Dec	beyond the age bracket
389	Authors: Leung R;Jenkins M;. Title: Asthma, allergy and atopy in southern Chinese school students. Journal Name: Clinical and Experimental Allergy. Year: 1994 Apr	beyond age bracket
390	Authors: Leung R;Wong G;Lau J;Ho A;Chan JK;Choy D;Douglass C;Lai CK;. Title: Prevalence of asthma and allergy in Hong Kong schoolchildren: an ISAAC study. Journal Name: European Respiratory Journal. Year: 1997 Feb	beyond the age bracket
189	Authors: Leung RC;Carlin JB;Burdon JG;Czarny D;. Title: Asthma, allergy and atopy in Asian immigrants in Melbourne. Journal Name: Medical Journal of Australia. Year: 1994 Oct 3	looking at prevalence of atopy in different ethnic groups. Not relevant
391	Authors: Lewis SA;Britton JR;. Title: Consistent effects of high socioeconomic status and low birth order, and the modifying effect of maternal smoking on the risk of allergic disease during childhood. Journal Name: Respiratory Medicine. Year: 1998 Oct	Looking at risk factors of wheeze, hay fever and eczema together in all patients.
392	Authors: Linneberg A;Petersen J;Gronbaek M;Benn CS;. Title: Alcohol during pregnancy and atopic dermatitis in the offspring. Journal Name: Clinical and Experimental Allergy. Year: 2004	Not relevant. The influence of alcohol in pregnancy in the development of atopic eczema.
393	Authors: Ludvigsson JF;Mostrom M;Ludvigsson J;Duchen K;. Title: Exclusive breastfeeding and risk of atopic dermatitis in some 8300 infants. Journal Name: Pediatric Allergy and Immunology. Year: 2005	Breast feeding and the development of atopic eczema.
215	Authors: Magnusson CG;. Title: Maternal smoking influences cord serum IgE and IgD levels and increases the risk for subsequent infant allergy. Journal Name: Journal of Allergy and Clinical Immunology. Year: 1986 Nov	about IgE and D in cord blood
394	Authors: Manjra AI;du PP;Weiss R;Motala CM;Potter PC;Raboobe N;Ndlova N;Davis M;Weinberg EG;. Title: Childhood atopic eczema consensus document. Journal Name: South African Medical Journal. Year: 2005	a consensus statement looking at the intervention, prognostic and co-morbidity implications for patients with eczema
395	Authors: Martindale S;McNeill G;Devereux G;Campbell D;Russell G;Seaton A;. Title: Antioxidant intake in pregnancy in relation to wheeze and eczema in the first two years of life. Journal Name: American Journal of Respiratory and Critical Care Medicine. Year: 2005 Jan 15	not relevant. About Antioxidant intake in pregnancy in relation to wheeze and eczema
396	Authors: McNally NJ;Williams HC;Phillips DR;. Title: Atopic eczema and the home environment. Journal Name: British Journal of Dermatology. Year: 2001	not addressing the trigger factors of eczema, only associations
397	Authors: McNally NJ;Williams HC;Phillips DR;Smallman-Raynor M;Lewis S;Venn A;Britton J;. Title: Atopic eczema and domestic water hardness. Journal Name: Lancet. Year: 1998	not addressing trigger factors of atopic eczema.
167	Authors: Meglio P;Arabito E;Plantamura M;Businco L;. Title: Prevalence of latex allergy and evaluation of some risk factors in a population of atopic children. Journal Name: Journal of Investigational Allergology and Clinical Immunology. Year: 2002	addressing prevalence of latex allergy in children with Atopic children
213	Authors: Meglio P;Farinella F;Trogolo E;Giampietro PG;Cantani A;Businco L;. Title: Immediate reactions following challenge-tests in children with atopic dermatitis. Journal Name: Allergie et Immunologie. Year: 1988 Feb	Not relevant
214	Authors: Mitchell EB;Crow J;Williams G;Platts-Mills TA;. Title: Increase in skin mast cells following chronic house dust mite exposure. Journal Name: British Journal of Dermatology. Year: 1986 Jan	beyond age bracket
398	Authors: Miyake Y;Yura A;Iki M;. Title: Breastfeeding and the prevalence of symptoms of allergic disorders in	study beyond age bracket

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Reference ID	Bibliographic information	Reason for rejecting study
	Japanese adolescents. Journal Name: Clinical and Experimental Allergy. Year: 2003 Mar	
399	Authors: Miyake Y;Yura A;Iki M;. Title: Cross-sectional study of allergic disorders in relation to familial factors in Japanese adolescents. Journal Name: Acta Paediatrica. Year: 2004 Mar	Beyond age bracket.
400	Authors: Montefort S;Lenicker HM;Caruna S;Agius MH;. Title: Asthma, rhinitis and eczema in Maltese 13-15 year-old schoolchildren – prevalence, severity and associated factors [ISAAC]. International Study of Asthma and Allergies in Childhood. Journal Name: Clinical and Experimental Allergy. Year: 1998 Sep	beyond the age bracket
401	Authors: Moore MM;Rifas-Shiman SL;Rich-Edwards JW;Kleinman KP;Camargo Jr CA;Gold DR;Weiss ST;Gillman MW;. Title: Perinatal Predictors of Atopic Dermatitis Occurring in the First Six Months of Life. Journal Name: Pediatrics. Year: 2004	Focus is on factors that predict atopic eczema.
402	Authors: Morren MA;Przybilla B;Bamelis M;Heykants B;Reynaers A;Degreef H;. Title: Atopic dermatitis: triggering factors. [96 refs]. Journal Name: Journal of the American Academy of Dermatology. Year: 1994 Sep	Not a study
403	Authors: Nafstad P;Magnus P;Gaarder PJ;Jaakkola JJ;. Title: Exposure to pets and atopy-related diseases in the first 4 years of life.[see comment]. Journal Name: Allergy. Year: 2001 Apr	Looking at incidence of eczema and not factors that trigger
404	Authors: Neild VS;Marsden RA;Bailes JA;Bland JM;. Title: Egg and milk exclusion diets in atopic eczema. Journal Name: British Journal of Dermatology. Year: 1986 Jan	
405	Authors: Osterlund P;Smedberg T;Hakulinen A;Heikkila H;Jarvinen KM;. Title: Eosinophil cationic protein in human milk is associated with development of cow's milk allergy and atopic eczema in breast-fed infants. Journal Name: Pediatric Research. Year: 2004 Feb	not relevant. Looking at Eosinophil cationic protein in human milk and its association with development of cow's milk allergy and atopic eczema in breast-fed infants
225	Authors: Patrizi A;Guerrini V;Ricci G;Neri I;Specchia F;Masi M;. Title: The natural history of sensitizations to food and aeroallergens in atopic dermatitis: a 4-year follow-Up. Journal Name: Pediatric Dermatology. Year: 2000 Jul	Not relevant- to establish risk factors for developing an allergic respiratory disease in children with AD
406	Authors: Peng Y;Shyur S;Chang C;Lai C;Chu S;Wu W;Wu C;. Title: Fish allergy in atopic children. Journal Name: Journal of Microbiology, Immunology and Infection. Year: 2001	small sampling frame and about development of fish allergy in AD children
226	Authors: Poikonen S;Puumalainen TJ;Kautiainen H;Burri P;Palosuo T;Reunala T;Turjanmaa K;. Title: Turnip rape and oilseed rape are new potential food allergens in children with atopic dermatitis. Journal Name: Allergy. Year: 2006 Jan	not relevant- about new food allergies in children already with AE. Not about triggers
407	Authors: Prescott SL;King B;Strong TL;Holt PG;. Title: The value of perinatal immune responses in predicting allergic disease at 6 years of age. Journal Name: Allergy. Year: 2003	Not relevant- looking at patterns of early immune response based on allergic outcomes
90	Authors: Queille-Roussel C;Raynaud F;Saurat JH;. Title: A prospective computerized study of 500 cases of atopic dermatitis in childhood. I. Initial analysis of 250 parameters. Journal Name: Acta Dermato-Venereologica. Year: 1985	Does not address triggering factors
408	Authors: Resch A;Schlipkoter U;Crispin A;Behrendt H;Heinrich J;Wichmann HE;Ring J;Schafer T;The KORA study group;. Title: Atopic disease and its determinants – a focus on the potential role of childhood infection. Journal Name: Clinical and Experimental Allergy. Year: 2004 Aug	study looking beyond age bracket of interest.
175	Authors: Rudzeviciene O;Narkeviciute I;Eidukevicius R;. Title: Lactose malabsorption in young Lithuanian children with atopic dermatitis. Journal Name: Acta Paediatrica. Year: 2004 Apr	Not relevant-about the prevalence of lactose malabsorption in children with Atopic dermatitis
409	Authors: Saarinen UM;Kajosaari M;. Title: Breastfeeding as prophylaxis against atopic disease: prospective follow-up study until 17 years old.[see comment]. Journal Name: Lancet. Year: 1995 Oct 21	Poor application of study methodology
410	Authors: Schafer T;Dirschiedl P;Kunz B;Ring J;Uberla K;. Title: Maternal smoking during pregnancy and lactation increases the risk for atopic eczema in the offspring. Journal Name: Journal of the American Academy of Dermatology. Year: 1997 Apr	Effect of maternal smoking and lactation of the development of eczema.
411	Authors: Schafer T;Heinrich J;Wjst M;Krause C;Adam H;Ring J;Wichmann HE;. Title: Indoor risk factors for atopic eczema in school children from East Germany. Journal Name: Environmental Research. Year: 1999 Aug	looking at associations of ectopic eczema and not its triggers

Reference ID	Bibliographic information	Reason for rejecting study
412	Authors: Schafer T;Kramer U;Vieluf D;Abeck D;Behrendt H;Ring J;. Title: The excess of atopic eczema in East Germany is related to the intrinsic type. Journal Name: British Journal of Dermatology. Year: 2000 Nov	not about trigger factors
413	Authors: Schafer T;Meyer T;Ring J;Wichmann H;Heinrich J;. Title: Worm infestation and the negative association with eczema (atopic/nonatopic) and allergic sensitization. Journal Name: Allergy. Year: 2005	looking at participants with worm infestation .
414	Authors: Schmidt K;Pittler MH;Wilson N;van Gool C;Humphreys R;Ernst E;. Title: Oral evening primrose oil and borage oil for atopic eczema. Journal Name: Cochrane Database of Systematic Reviews. Year: 2006	a study protocol
415	Authors: Sherriff A;Golding J;ALSPAC Study Team.;; Title: Hygiene levels in a contemporary population cohort are associated with wheezing and atopic eczema in preschool infants. Journal Name: Archives of Disease in Childhood. Year: 2002 Jul	assessment of hygiene levels in infancy associated with Wheeze/ atopic eczema
416	Authors: Steffensen FH;Sorensen HT;Gillman MW;Rothman KJ;Sabroe S;Fischer P;Olsen J;. Title: Low birth weight and preterm delivery as risk factors for asthma and atopic dermatitis in young adult males. Journal Name: Epidemiology. Year: 2000 Mar	In appropriate stats representation.
177	Authors: Tamsmark TH;Koch A;Melbye M;Molbak K;. Title: Incidence and predictors of atopic dermatitis in an open birth cohort in Sisimiut, Greenland. Journal Name: Acta Paediatrica. Year: 2001 Sep	We have UK data for epidemiology aspects included in this paper.
417	Authors: Taylor B;Wadsworth J;Golding J;Butler N;. Title: Breast feeding, eczema, asthma, and hayfever. Journal Name: Journal of Epidemiology and Community Health. Year: 1983 Jun	study results were more about asthma and not eczema. Not rigorous enough
418	Authors: Terreehorst I;Oosting AJ;Tempels-Pavlica Z;de Monchy JG;Bruijnzeel-Koomen CA;Hak E;van Wijk RG;. Title: Prevalence and severity of allergic rhinitis in house dust mite-allergic patients with bronchial asthma or atopic dermatitis. Journal Name: Clinical and Experimental Allergy. Year: 2002 Aug	About prevalence of allergic rhinitis in patients with Atopic eczema/asthma. Not looking at trigger factors
419	Authors: Van Bever HP;Docx M;Stevens WJ;. Title: Food and food additives in severe atopic dermatitis. Journal Name: Allergy. Year: 1989 Nov	sampling frame small and nil evidence of statistical analysis done to arrive at conclusion even though study claims to be a randomised double blind placebo controlled challenge trial.
420	Authors: Von LML;Porsbjerg C;Ulrik CS;Nepper-Christensen S;Backer V;. Title: Prevalence and predictors of atopy among young Danish adults. Journal Name: Clinical and Experimental Allergy. Year: 2002	Study looking at adults
421	Authors: Yang C;Cheng M;Hsieh Y;. Title: Effects of indoor environmental factors on risk for atopic eczema in a subtropical area. Journal Name: Journal of Toxicology and Environmental Health Part A. Year: 2000	Focus is on indoor environmental factors on development of eczema in subtropical areas.
422	Authors: Yemaneberhan H;Flohr C;Lewis SA;Bekele Z;Parry E;Williams HC;Britton J;Venn A;. Title: Prevalence and associated factors of atopic dermatitis symptoms in rural and urban Ethiopia. Journal Name: Clinical and Experimental Allergy. Year: 2004 May	beyond age bracket
423	Authors: Yura A;Shimizu T;. Title: Trends in the prevalence of atopic dermatitis in school children: longitudinal study in Osaka Prefecture, Japan, from 1985 to 1997. Journal Name: British Journal of Dermatology. Year: 2001 Dec	more relevant to epidemiology
424	Authors: Zirngibl A;Franke K;Gehring U;von BA;Berdel D;Bauer CP;Reinhardt D;Wichmann HE;Heinrich J;GINI Study Group.;; Title: Exposure to pets and atopic dermatitis during the first two years of life. A cohort study. Journal Name: Pediatric Allergy and Immunology. Year: 2002 Dec	Effect of keeping pets on the development of eczema at 2 yrs.
425	Authors: Zutavern A;Hirsch T;Leupold W;Weiland S;Keil U;von ME;. Title: Atopic dermatitis, extrinsic atopic dermatitis and the hygiene hypothesis: results from a cross-sectional study. Journal Name: Clinical and Experimental Allergy. Year: 2005 Oct	about the risk profile of developing atopic eczema
426	Authors: Bindslev-Jensen C;Ballmer-Weber BK;Bengtsson U;Blanco C;Ebner C;Hourihane J;Knulst AC;Moneret-Vautrin DA;Nekam K;Niggemann B;Osterballe M;Ortolani C;Ring J;Schnopp C;Werfel T;European Academy of Allergology and Clinical Immunology.;; Title: Standardization of food challenges in patients with immediate reactions to foods—position paper from the European Academy of Allergology and Clinical Immunology. [73 refs]. Journal Name: Allergy. Year: 2004 Jul	A review on study methods
427	Authors: Niggemann B;Binder C;Dupont C;Hadji S;Arvola T;Isolauri E;. Title: Prospective, controlled, multi-center study on the effect of an amino-acid-based formula in infants with cow's milk allergy/intolerance and atopic dermatitis. Journal Name: Pediatric allergy and immunology : official publication of the European Society of	Looking at the effects of amino-based formulae in comparison with extensively hydrolysed cow's milk formulae on the growth and clinical symptoms of infants.

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Reference ID	Bibliographic information	Reason for rejecting study
	Pediatric Allergy and Immunology. Year: 2001 Apr	

Treatment

Emollients and dry bandages and medicated dressings

Reference ID	Bibliographic information	Reason for rejecting study
428	Authors: Andersson A;Lindberg M;Loden M;. Title: The effect of two urea-containing creams on dry, eczematous skin in atopic patients. I. Expert, patient and instrumental evaluation. Journal Name: Journal of Dermatological Treatment. Year: 1999	Patients were aged 18-55 years.
429	Authors: Barham KL;Yosipovitch G;. Title: It's a wrap: the use of wet pajamas in wet-wrap dressings for atopic dermatitis. Journal Name: Dermatology Nursing. Year: 2005	Narrative review with no new or additional references to clinical trials cited.
430	Authors: Buraczewska I;Berne B;Lindberg M;Torma H;Loden M;. Title: Changes in skin barrier function following long-term treatment with moisturizers, a randomized controlled trial. Journal Name: British Journal of Dermatology. Year: 156	Population did not include any patients with atopic eczema.
431	Authors: Clinical Research Group for Urea Ointment;. Title: A Double-Blind Study on Clinical Efficacy of Urea Ointment. Journal Name: Rinsho Hyoka (Clinical Evaluation). Year: 1977	This paper is written in Japanese, with a detailed abstract in English. However, while the indications for treatment are described as ichthyosis vulgaris, senile xerosis, or 'atopic skin (inclusive of dry form of infantile eczema)'. The proportion of patients with atopic eczema is not stated, nor is the age of the population.
432	Authors: Cork MJ;. Title: Causes and treatment of childhood eczema. Journal Name: Exchange - Quarterly Journal of the National Eczema Society. Year: 2002	Background information.
433	Authors: Cork MJ;. Title: The importance of skin barrier function. Journal Name: Journal of Dermatological Treatment. Year: 1987	Background information.
434	Authors: Cork MJ;Robinson D;Vasilopoulos Y;Ferguson A;Moustafa M;MacGowan A;Ward SJ;Tazi-Ahnini R;. Title: Predisposition to sensitive skin and eczema. Journal Name: Community Practitioner. Year: 2005	Background information.
435	Authors: Cork MJ;Robinson DA;Vasilopoulos Y;Ferguson A;Moustafa M;MacGowan A;Duff GW;Ward SJ;Tazi-Ahnini R;. Title: New perspectives on epidermal barrier dysfunction in atopic dermatitis: Gene-environment interactions. Journal Name: Journal of Allergy and Clinical Immunology. Year: 2006	Background information.
436	Authors: Foelster-Holst R;. Title: Efficacy of crisis intervention treatment with topical corticosteroid prednicarbat with and without partial wet-wrap dressing in atopic dermatitis. Journal Name: Dermatology (Basel, Switzerland). Year: 2006	The age of the population ranged from 6 to 63 years. There were 4 children aged 6 to 16 but no data were reported separately for this group.
437	Authors: Goodyear HM;Harper JJ;. Title: 'Wet wrap' dressings for eczema: an effective treatment but not to be misused. Journal Name: British Journal of Dermatology. Year: 2002 Jan	Letter - background information.
438	Authors: Groel JT;. Title: Dimethyl sulfoxide as a vehicle for corticosteroids. A comparison with the occlusive dressing technique. Journal Name: Archives of Dermatology. Year: 1968 Feb	The study includes 224 people, of mean age 43 years (range 2 to 82); no data were reported separately for those aged under 12 years (proportion unknown); additionally only 13% of the study population had atopic eczema.
439	Authors: Kantor I;Milbauer J;Posner M;Weinstock IM;Simon A;Thormahlen S;. Title: Efficacy and safety of emollients as adjunctive agents in topical corticosteroid therapy for atopic dermatitis. Journal Name: Today's Therapeutic Trends. Year: 1993	Patients of any age with atopic eczema were stated to be included in this study but no demographic data were provided, therefore it is not possible to tell whether any children were included, and if so what age they were.

Atopic eczema in children

Reference ID	Bibliographic information	Reason for rejecting study
440	Authors: Larregue M, Devaux J, Audebert C et al. Title: Crème a base de lactate d'ammonium 6% etude en double aveugle controlee, de l'action et de la tolerance chez l'enfant atteint de dermatite atopique. Journal Name: <i>Nouv Dermatol</i> . Year: 1996	The paper is published in French. It evaluates use of ammonium lactate 6% in 46 infants, treated for 30 days. (This paper was cited in the Hoare review 2000441)
442	Authors: Lawton S;. Title: Atopic eczema: nurse-led care -- 2. Treatments. Journal Name: <i>The Journal of Family Health Care</i> . Year: 2005	Narrative review - used for background information
443	Authors: Loden M;. Title: Role of topical emollients and moisturizers in the treatment of dry skin barrier disorders. [215 refs]. Journal Name: <i>American Journal of Clinical Dermatology</i> . Year: 2003	Narrative review - used as background information and to check references.
444	Authors: Loden M;Andersson AC;Anderson C;Bergbrant IM;Frodin T;Ohman H;Sandstrom MH;Sarnhult T;Voog E;Stenberg B;Pawlik E;Preisler-Haggqvist A;Svensson A;Lindberg M;. Title: A double-blind study comparing the effect of glycerin and urea on dry, eczematous skin in atopic patients. Journal Name: <i>Acta Dermato-Venerologica</i> . Year: 2002	Mean age of people included in the study was around 32 to 35 years in different groups. It is not clear whether any children were included.
445	Authors: Loden M;Andersson AC;Lindberg M;. Title: Improvement in skin barrier function in patients with atopic dermatitis after treatment with a moisturizing cream (Canoderm). Journal Name: <i>British Journal of Dermatology</i> . Year: 1999 Feb	Patients included were adults (mean age 32 (+/- 14) years).
446	Authors: Mallon E;Powell S;Bridgman A;. Title: 'Wet-wrap' dressings for the treatment of atopic eczema in the community. Journal Name: <i>Journal of Dermatological Treatment</i> . Year: 1994	No useable outcome data, and only limited demography. Additionally 2 different treatments were used according to age, and it is not clear how many were treated with which.
447	Authors: Nicol NH;. Title: Atopic dermatitis: the (wet) wrap-up. Journal Name: <i>American Journal of Nursing</i> . Year: 1987	Narrative review, with no references cited.
448	Authors: Page B;. Title: The benefits of Tubifast Garments in the management of atopic eczema.. Journal Name: <i>British Journal of Nursing</i> . Year: 2005	Narrative review - background information, with no additional or new clinical trials cited.
449	Authors: Rajka G;. Title: Emollient therapy in atopic dermatitis. Journal Name: <i>Journal of Dermatological Treatment</i> . Year: 1997	Narrative review - used as background information and to check references.
450	Authors: Riley K;. Title: Flurandrenolone (Cordran) tape as occlusive therapy. Journal Name: <i>Journal - South Carolina Medical Association</i> . Year: 1969 May	Case series of 39 people with various dermatological conditions, including atopic eczema (n = 3). However very little information was provided; none about the patients treated, duration of use, and no useable outcome data.
451	Authors: Sladden MJ;Mortimer NJ;Milligan AM;. Title: Wet wraps in atopic eczema: the dangers of inadequately sized 'negative' clinical trials.[comment]. Journal Name: <i>Clinical and Experimental Dermatology</i> . Year: 2005 Jul	Letter regarding Beattie 2004 RCT.452 Background information.
453	Authors: Tang WYM;. Title: Diluted steroid facial wet wraps for childhood atopic eczema [4]. Journal Name: <i>Dermatology</i> . Year: 2000	This short report describes the technique and use of a corticosteroid wet wrap on the face in 10 children. No outcome data are given, and only limited demographic data.
454	Authors: Thestrup-Pedersen K;. Title: Treatment principles of atopic dermatitis. Journal Name: <i>Journal of the European Academy of Dermatology and Venereology</i> . Year: 2002	Narrative review - background information only. There were no references to clinical trials of emollients.
455	Authors: Twitchen LJ;Lowe AJ;. Title: Atopic eczema and wet-wrap dressings.. Journal Name: <i>Professional Nurse</i> . Year: 1998 Nov	Narrative review, with no new/additional references cited.
456	Authors: Vilaplana J;Coll J;Trullas C;Azon A;Pelejero C;. Title: Clinical and non-invasive evaluation of 12% ammonium lactate emulsion for the treatment of dry skin in atopic and non-atopic subjects. Journal Name: <i>Acta Dermato-Venerologica</i> . Year: 1992	Patients included were aged 20-50 years.

Topical corticosteroids

Reference ID	Bibliographic information	Reason for rejecting study
457	Authors: . Title: Therapeutic advance: Don't forget children. Journal Name: Prescrire International. Year: 2003	Commentary regarding lack of clinical trial data in children. Not directly relevant to the guideline questions.
458	Authors: Allen DB;. Title: Systemic effects of inhaled corticosteroid in children. Journal Name: Current Opinion in Pediatrics. Year: 2004	Not relevant to guideline scope.
459	Authors: Almeyda J;Burt BW;. Title: Double blind controlled study of treatment of atopic eczema with a preparation of hydrocortisone in a new drug delivery system versus betamethasone 17-valerate. Journal Name: British Journal of Dermatology. Year: 1974 Nov	The population included in the study were only referred to as 'patients', with no further details, therefore it is not known whether any children were included.
460	Authors: Baselga E;. Title: Treatment of atopic dermatitis in infancy. Journal Name: Actas Dermo-Sifiliograficas. Year: 2003	Foreign language paper; seems to be a review of systemic immunosuppressants.
461	Authors: Baum WF;Schneyer U;Lantzsch AM;Kloditz E;. Title: Delay of growth and development in children with bronchial asthma, atopic dermatitis and allergic rhinitis. [Review] [98 refs]. Journal Name: Experimental and Clinical Endocrinology and Diabetes. Year: 2002 Apr	Narrative review - used as background information and to check references.
462	Authors: Benincori A;Picarazzi A;Mancuso G;Mirena S;De MM;Businco L;. Title: Efficacy and side effects of a new topical steroid: Fluocortin butyl. Journal Name: Folia Allergologica et Immunologica Clinica. Year: 1988	Foreign language paper
463	Authors: Bernier C;. Title: How should severe and chronic atopic dermatitis be managed in children?. [French]. Journal Name: Annales de Dermatologie et de Venereologie. Year: 2005	Foreign language paper, which appears to summarise data for the use of systemic immunosuppressant therapies.
464	Authors: Berth-Jones J;. Title: Product focus. Fluticasone propionate: a twice-weekly steroid regimen for eczema. Journal Name: Practice Nursing. Year: 2004	This is a summary of a RCT published elsewhere - the original paper is considered in the guideline (Berth-Jones 2003465).
466	Authors: Beylot C;Feuillatre F;Doutre M;. Title: Topical corticosteroids in children. Journal Name: Revue du Praticien. Year: 1987	Foreign language review paper.
467	Authors: Blum G;. Title: Evaluation of halometasone cream in the treatment of paediatric patients with acute eczematous dermatoses. Journal Name: Journal of International Medical Research. Year: 1983	Case series including a mixed population (seborrhoeic dermatitis and contact dermatitis), although results were reported separately for the children with atopic dermatitis. However, this corticosteroid is not used in the UK, therefore is not considered.
468	Authors: Boralevi F;. Title: What additional measures should be recommended in atopic dermatitis in children? [French]. Journal Name: Annales de Dermatologie et de Venereologie. Year: 2005	Foreign language review paper
469	Authors: Brazzelli V;Larizza D;Roveda E;Barbagallo T;Prestinari F;Calcaterra V;Bellani E;Caimmi S;Muratori T;Borroni G;. Title: Acquired localized iatrogenic hypertrichosis: A pediatric case report. Journal Name: Giornale Italiano di Dermatologia e Venereologia. Year: 2003	Case report - foreign language
470	Authors: Breneman D;Fleischer AB;Kaplan D;Lebwohl M;Miller B;Pariser D;Rist T;Swinyer L;Liu Y;Foley V;. Title: Clobetasol propionate 0.05% lotion in the treatment of moderate to severe atopic dermatitis: a randomized evaluation versus clobetasol propionate emollient cream. Journal Name: Journal of Drugs in Dermatology: JDD. Year: 2005 May	The age range of people included in the trial was 12-86 years.
471	Authors: Buchvald D;. Title: Mometasone furoate in the treatment of atopic dermatitis in children - open clinical study. Journal Name: Ceskoslovenska Dermatologie. Year: 1996	Publication in foreign language. English abstract; evaluation of 2 weeks mometasone treatment in 72 children with atopic eczema. No control group.
472	Authors: Callen J;Chamlin S;Eichenfield LF;Ellis M;Girardi M;Goldfarb M;Hanifin J;Lee P;Margolis D;Paller AS;Piacquadio D;Peterson W;Kaulback K;Fennerty M;Wintroub BU;. Title: A systematic review of the safety of topical therapies for atopic dermatitis. Journal Name: British Journal of Dermatology. Year: 2007	Narrative review of mainly open studies. Age range not specific enough for this guideline.
473	Authors: Cambazard F;. Title: The use of topical corticosteroids in atopic dermatitis in children. Journal Name: Annales de Dermatologie et de Venereologie. Year: 2005	Foreign language review paper.

Atopic eczema in children

Reference ID	Bibliographic information	Reason for rejecting study
474	Authors: Centre for Reviews and Dissemination;. Title: Treatment of atopic dermatitis and impact on quality of life: a review with emphasis on topical non-corticosteroids (Provisional record). Journal Name: Database of Abstracts of Reviews of Effectiveness. Year: 2005	Referred to original paper instead.
475	Authors: Chavigny J;. Title: The place of therapeutic education in the treatment of atopic dermatitis in children. [French]. Journal Name: Annales de Dermatologie et de Venereologie. Year: 2005	Foreign language review paper.
476	Authors: Chiaverini C;. Title: What are means of preventing flares and the adjuvant measures to be taken in atopic dermatitis in children?. [French]. Journal Name: Annales de Dermatologie et de Venereologie. Year: 2005	Foreign language review paper.
477	Authors: Crespi HG;. Title: Topical corticosteroid therapy for children: alclometasone dipropionate cream 0.05%. Journal Name: Clinical Therapeutics. Year: 1986	Case series of 39 children aged up to 12 years, 56% of whom had atopic eczema, but no data were reported separately for this subgroup.
478	Authors: David TJ;. Title: Short stature in children with atopic eczema. [Review] [34 refs]. Journal Name: Acta Dermato-Venereologica. Year: 1989	Narrative review/opinion - used to check references.
479	Authors: Del RJ;Friedlander SF;. Title: Corticosteroids: options in the era of steroid-sparing therapy. [Review] [59 refs]. Journal Name: Journal of the American Academy of Dermatology. Year: 2005 Jul	Narrative review - background information.
480	Authors: Dominguez L;Hojyo T;Vega E;Jones ML;Peets E;. Title: Comparison of the safety and efficacy of mometasone furoate cream 0.1% and clobetasone butyrate cream 0.05% in the treatment of children with a variety of dermatoses. Journal Name: CURR THER RES CLIN EXP. Year: 1990	The study includes 61 children with a range of skin conditions, including atopic eczema (75%), contact dermatitis and seborrheic dermatitis. Data were not reported separately for the children with atopic eczema.
481	Authors: Eichenfield LF;. Title: Two randomized, double-blind, placebo-controlled studies of fluticasone propionate lotion 0.05% for the treatment of atopic dermatitis in subjects from 3 months of age. Journal Name: Journal of the American Academy of Dermatology. Year: 2006 Apr	The age of the population ranged from 3 months to 87 years. The proportion of children aged under 12 years was not stated, and no data were reported separately for this group.
482	Authors: el-Hefnawi H;el-Shiemy S;Paris R;Tadros SS;. Title: Double-blind paired comparison clinical trial of halcinonide and hydrocortisone. Journal Name: Cutis. Year: 1978 Jul	The mean age of patients was 35 years (range 5 months to 65 years), and only 10% had atopic eczema.
483	Authors: Ersser S;Latter S;SurrIDGE H;Buchanan P;Satherley P;Welbourne S;. Title: Psychological and educational interventions for atopic eczema in children. Journal Name: Cochrane Database of Systematic Reviews. Year: 2006	Protocol for a Cochrane systematic review only.
484	Authors: Fattah AA;el-Shiemy S;Faris R;Tadros SS;. Title: A comparative clinical evaluation of a new topical steroid 'halcinonide' and hydrocortisone in steroid-responsive dermatoses. Journal Name: Journal of International Medical Research. Year: 1976	The study included patients aged 11 to 50 years. Only 4 of the 50 had atopic eczema.
485	Authors: Fischer G;. Title: Common skin problems in children. Part 2: Rashes other than atopic dermatitis. Journal Name: Medicine Today. Year: 2005	Narrative review/educational article about skin conditions in children, not including atopic eczema.
486	Authors: Fisher M;Kelly AP;. Title: Multicenter trial of fluocinonide in an emollient cream base. Journal Name: International Journal of Dermatology. Year: 1979 Oct	The study includes patients with atopic eczema or psoriasis. Although results are reported separately for the group with atopic eczema, the mean age of the patients was about 19 years (range 2 to 73 years), and it is not clear how many were children.
487	Authors: Flohr C;Williams HC;. Title: Evidence based management of atopic eczema. Journal Name: Archives of Disease in Childhood Education and Practice. Year: 2004	Narrative review/ educational paper. Used as background information and to check references.
488	Authors: Foelster-Holst R;Nagel F;Zoellner P;Spaeth D;. Title: Efficacy of crisis intervention treatment with topical corticosteroid prednicarbat with and without partial wet-wrap dressing in atopic dermatitis. Journal Name: Dermatology. Year: 2006	Case series of 24 people, 4 were aged 6-16 years, but no results were reported separately for children.
489	Authors: Foti C;Bonifazi E;Casulli C;Bonamonte D;Conserva A;Angelini G;. Title: Contact allergy to topical corticosteroids in children with atopic dermatitis. Journal Name: Contact Dermatitis. Year: 2005 Mar	Caes reports.
490	Authors: Fredriksson T;Nordin K;. Title: Clobetasone butyrate compared with betamethasone valerate in the treatment of atopic and contact dermatitis. Journal Name: Current Medical Research and Opinion. Year: 1979	Patients were aged 12-71 years.

Reference ID	Bibliographic information	Reason for rejecting study
491	Authors: Frichot BC;Zelickson AS;. Title: Steroids, lysosomes and dermatitis. An ultrastructural study. Journal Name: Acta Dermato-Venereologica. Year: 1972	This publication reports the treatment of 3 individuals with skin conditions (one child), but only in terms of morphological changes to skin, which is not a clinical outcome of interest.
492	Authors: Gelmetti C;Grimalt R;Del CG;Caputo R;. Title: Tolerability and efficacy of topical budesonide in the treatment of atopic dermatitis in pediatric age. Journal Name: Giornale Italiano di Dermatologia e Venereologia. Year: 1994	Foreign language paper.
493	Authors: Giannetti A;Laria G;Seidenari S;. Title: Hydrocortisone 17-butyrate 0.1% (locoid)(R) or hydrocortisone acetate 1% ointment in children with atopic dermatitis?. Journal Name: Current Therapeutic Research, Clinical and Experimental. Year: 1984	The study is a non-randomised comparison of hydrocortisone-17-butyrate and hydrocortisone 1%. A RCT of good quality has been included for this comparison therefore this study of lower evidence level is excluded.
494	Authors: Goustas P;Cork MJ;Higson D;. Title: Eumovate (clobetasone butyrate 0.05%) cream: A review of clinical efficacy and safety. Journal Name: Journal of Dermatological Treatment. Year: 2003	Narrative review - used as background information and to check references.
495	Authors: Granlund H;. Title: Treatment of childhood eczema. Journal Name: Paediatric Drugs. Year: 2002	Narrative review - used as background information and to check references.
496	Authors: Grater WC;Grover FW;. Title: Evolution of a topical corticosteroid (flumethasone pivalate) in allergic dermatoses. Journal Name: Southern Medical Journal. Year: 1967 Nov	The age of patients ranged from 18 months to 75 years. 63% of the population had atopic eczema. No data were reported separately for children with atopic eczema.
497	Authors: Gupta AK;Chow M;. Title: Prednicarbate (Dermatop): profile of a corticosteroid. [Review] [23 refs]. Journal Name: Journal of Cutaneous Medicine and Surgery. Year: 2004 Jul	This product is not available in the UK.
498	Authors: Harper J;. Title: Topical corticosteroids for skin disorders in infants and children. Journal Name: Drugs. Year: 1988	Narrative review/ educational article, with no references cited.
499	Authors: Hernanz Hermosa JM;Chavarria ME;Mauleon FC;Valdivielso RM;. Title: Stretch marks. Journal Name: Acta Pediatrica Espanola. Year: 2003	Foreign language paper, and probably irrelevant.
500	Authors: Herz G;Yawalkar SJ;Weirich EG;. Title: Evaluation of halometasone ointment in the treatment of paediatric patients with chronic eczematous dermatoses. Journal Name: Journal of International Medical Research. Year: 1983	Age of the population included in this case series ranged from under 1 year to 16 years (median 7 years). Only 26% had atopic dermatitis, and results were not reported separately for this group.
501	Authors: Jorizzo J;Levy M;Lucky A;Shavin J;Goldberg G;Dunlap F;Hinds A;Strelka L;Baker M;Tuley M;. Title: Multicenter trial for long-term safety and efficacy comparison of 0.05% desonide and 1% hydrocortisone ointments in the treatment of atopic dermatitis in pediatric patients. Journal Name: Journal of the American Academy of Dermatology. Year: 1995 Jul	This RCT evaluates a product not available in the UK. It would be eligible if it considered adverse effects, as this would provide information about the adverse effects of hydrocortisone. However, adverse effects were not considered and therefore the study is excluded.
502	Authors: Kataoka Y;. Title: Problems of topical cortiosteroid in caring children's atopic dermatitis. Journal Name: Skin Research. Year: 2004	Foreign language paper.
503	Authors: Khobragade KJ;. Title: Efficacy and safety of combination ointment 'fluticasone propionate 0.005% plus mupirocin 2.0%' for the treatment of atopic dermatitis with clinical suspicion of secondary bacterial infection: An open label uncontrolled study. Journal Name: Indian Journal of Dermatology, Venereology and Leprology. Year: 2005	The age of patients ranged from 3 months to 72 years (mean 13.5 years). The proportion aged under 12 years was not stated, and no data were reported separately for children.
504	Authors: Krafchik BR;. Title: The use of topical steroids in children. Journal Name: Seminars in Dermatology. Year: 1995	Narrative review - used as background information and to check references.
505	Authors: Krasowska D;Lecewicz-Torun B;Wilkowska A;Roszkiewicz J;Siedlewicz A;Rosinska D;Niezurawska G;Cislo M;Blizanowska A;Okrzeja D;. Title: Evaluation of efficacy and safety of fluticasone propionate (cutivate) application in children with atopic dermatitis in the long-term intermittent method. Journal Name: Przegląd Dermatologiczny. Year: 2001	Foreign language paper
506	Authors: Kristmundsdottir F;David TJ;. Title: Growth impairment in children with atopic eczema. Journal Name: Journal of the Royal Society of Medicine. Year: 1987 Jan	Not relevant to the topical corticosteroid question but may address the growth impairment question.
507	Authors: Lacour J;Crickx B;Dupont C;Fontaine J;Lebranchu Y;Martin L;Navel M;Sautron J;Stalder J;. Title:	Publication in French.

Atopic eczema in children

Reference ID	Bibliographic information	Reason for rejecting study
	Management of atopic dermatitis in children. Journal Name: Presse Medicale. Year: 2005	
508	Authors: Lane AT;. Title: Efficacy and safety of topical steroids in paediatric atopic dermatitis. Journal Name: Journal of the European Academy of Dermatology and Venereology. Year: 1997	Narrative review, with only limited references.
509	Authors: Lebrun-Vignes B;Legrain V;Amoric J;Taieb A;. Title: Comparative study of efficacy and effect on plasma cortisol levels of micronized desonide cream 0.1 p. 100 versus betamethasone dipropionate cream 0.05 p. 100 in the treatment of childhood atopic dermatitis. Journal Name: Annales de Dermatologie et de Venereologie. Year: 2000	Foreign language paper.
510	Authors: Leung DYM;Nicklas RA;Li JT;Bernstein IL;Blessing-Moore J;Boguniewicz M;Chapman JA;Khan DA;Lang D;Lee RE;Portnoy JM;Schuller DE;Spector SL;Tilles SA;. Title: Disease management of atopic dermatitis: An updated practice parameter. Journal Name: Annals of Allergy, Asthma, and Immunology. Year: 2004	Narrative review - used as background information.
510	Authors: Leung DYM;Nicklas RA;Li JT;Bernstein IL;Blessing-Moore J;Boguniewicz M;Chapman JA;Khan DA;Lang D;Lee RE;Portnoy JM;Schuller DE;Spector SL;Tilles SA;. Title: Disease management of atopic dermatitis: An updated practice parameter. Journal Name: Annals of Allergy, Asthma, and Immunology. Year: 2004	Narrative review - used as background information.
511	Authors: Meenan FO;. Title: The treatment of atopic dermatitis with clobetasol propionate. Journal Name: Irish Medical Journal. Year: 1977 Jun	This publication is a short abstract of a study that compared once with twice daily application of clobetasol propionate (not randomised). It is unclear what outcomes were evaluated, or how these were assessed. Duration of applications was also unclear. The abstract lacks sufficient detail. The study was also excluded from the HTA.512
513	Authors: MIURA Y;HAMASAKA K;SEIJI M;TANAHASHI Y;Okitaka MAIE;HONDA M;HATTORI S;SESOKO R;IWASAKI T;TAKAGI O;YASUDA T;ISHIHARA M;Masatoshi ITOH;KUKITA A;HARADA S;TAKIZAWA K;SASAGAWA S;KANDA Y;FUJINAMI T;SASAKI S;SHIMAO S;ASO M;KANBE N;TAKEDA K;KIMURA H;. Title: A Double-Blind Controlled Study on the Clinical Utility of Topical Fluocortolone -Clinical Research Group for Topical Fluocortolone-. Journal Name: Rinsho Hyoka (Clinical Evaluation). Year: 1977	Abstract only - also does not address the treatment of atopic eczema.
514	Authors: Morley N;Fry L;Walker S;. Title: Clinical evaluation of clobetasone butyrate in the treatment of children with atopic eczema, and its effect on plasma corticosteroid levels. Journal Name: Current Medical Research and Opinion. Year: 1976	The participants were aged 17 years and above, and a variety of skin conditions were included.
515	Authors: Morren M;Dooms-Goossens A;. Title: Corticosteroid allergy in children: A potential complication of atopic eczema. Journal Name: European Journal of Dermatology. Year: 1994	Case reports.
516	Authors: Morris EC;. Title: Pharmacotherapy of allergic disease. [Review] [18 refs]. Journal Name: Primary Care; Clinics in Office Practice. Year: 1987 Sep	Background information.
517	Authors: Nilsson EJ;Henning CG;Magnusson J;. Title: Topical corticosteroids and Staphylococcus aureus in atopic dermatitis. Journal Name: Journal of the American Academy of Dermatology. Year: 1992 Jul	Patients aged 2-58 years (median 13 years) were included; the proportion of children aged under 12 years is not stated, and no data are reported separately for children.
518	Authors: Ortonne J;. Title: Safety aspects of topical methylprednisolone aceponate (MPA) treatment. Journal Name: Journal of Dermatological Treatment. Year: 1992	Narrative review of topical methylprednisolone aceponate. Product not used in the UK.
519	Authors: Ott H;Hoger P;. Title: Treatment of atopical eczema in childhood. Journal Name: Padiatrische Praxis. Year: 2004	Foreign language paper.
520	Authors: Patel L;Clayton PE;Jenney ME;Ferguson JE;David TJ;. Title: Adult height in patients with childhood onset atopic dermatitis. Journal Name: Archives of Disease in Childhood. Year: 1997 Jun	Does not address the topical corticosteroid question, but will be relevant to the question on growth disturbance.
520	Authors: Patel L;Clayton PE;Jenney ME;Ferguson JE;David TJ;. Title: Adult height in patients with childhood onset atopic dermatitis. Journal Name: Archives of Disease in Childhood. Year: 1997 Jun	Does not address the topical corticosteroid question, but will be relevant to the question on growth disturbance.
521	Authors: Peng YS;Shyur SD;Lin HY;Wang CY;. Title: Steroid allergy: report of two cases. Journal Name: Journal of Microbiology, Immunology and Infection. Year: 2001 Jun	Two case reports of allergy to corticosteroids (one systemic, one topical).
522	Authors: Rampini E;. Title: Methylprednisolone aceponate (MPA) - Use and clinical experience in children. Journal Name: Journal of Dermatological Treatment. Year: 1992	A comparison of methylprednisolone and prednicarbate creams for the treatment of atopic eczema - neither is available in the UK.

Reference ID	Bibliographic information	Reason for rejecting study
523	Authors: Rauschkolb EW;Bender SH;Ebling JK;McCormick GE;Rosenthal AL;. Title: Low concentration halcinonide cream in the topical management of atopic dermatitis in pediatric patients. Journal Name: Cutis; cutaneous medicine for the practitioner. Year: 1981	A report of a study comparing halcinonide cream with placebo - although boys and girls are said to be included, no demographic data are given. The only outcome evaluated was clinical response (whether superior or equal response), therefore there are no useable data.
524	Authors: Sanabria-Silva E;Laterza AM;Tamayo L;Ruiz-Maldonado R;. Title: Evaluation of rebound phenomenon in children with atopic dermatitis treated with topical corticosteroids. Journal Name: Dermatologand#x00ED;a Revista Mexicana. Year: 1991	Foreign language paper
525	Authors: Savin RC;. Title: Halcinonide, a new topical anti-inflammatory steroid. Journal Name: The Journal of international medical research. Year: 1976	Only 25% of patients had atopic eczema. The age range was 2-72 years; it is not known how many were aged under 12 years, and no results were reported separately for this age group.
526	Authors: Schachner LA;. Title: A 3-day rate of efficacy of a moderate potency topical steroid in the treatment of atopic dermatitis in infancy and childhood. Journal Name: Pediatric Dermatology. Year: 1996	Study published as an abstract only; p values quoted for changes in signs and symptoms but not outcome data.
527	Authors: Schempp CM;Hezel S;Simon JC;. Title: [Topical treatment of atopic dermatitis with Hypericum cream. A randomised, placebo-controlled, double-blind half-side comparison study]. Journal Name: Der Hautarzt; Zeitschrift fur Dermatologie, Venerologie, und verwandte Gebiete. Year: 2003 Mar	Foreign language paper
528	Authors: Schlessinger J;. Title: An open-label adrenal suppression study of 0.1% fluocinonide cream in pediatric patients with atopic dermatitis. Journal Name: Archives of Dermatology. Year: 2006	Drug not licensed in the UK
529	Authors: Silverman A;. Title: Fluocinonide vs halcinonide in atopic dermatitis. A paired comparison of two potent topical corticosteroids. Journal Name: Cutis. Year: 1979 Mar	The age range of patients included was 2-70 years (mean 25 years). It is not stated how many children were included, and no data were presented separately for this group.
530	Authors: Smethurst D;. Title: Atopic eczema.[update in Clin Evid. 2002 Dec;(8):1664-82; PMID: 12603963]. [Review] [55 refs]. Journal Name: Clinical Evidence. Year: 2002 Jun	Background information, and used to check references.
531	Authors: Srinivasan TN;Suresh TR;Anandan S;. Title: Depression following corticosteroid withdrawal in a child. Journal Name: Indian Journal of Dermatology, Venereology and Leprology. Year: 1990	Case report.
532	Authors: Stalder JF;. Title: How to prescribe topical corticosteroids for children?. Journal Name: Journal de Pediatrie et de Puericulture. Year: 1998	Foreign language paper, which does not appear to be a clinical trial report.
533	Authors: Tapia AG;. Title: The impact of new topical corticosteroids on the management of atopic dermatitis. Journal Name: Actas Dermo-Sifiliograficas. Year: 2001	Foreign language review paper.
534	Authors: Van Coevorden AM;Williams HC;Svensson A;Diepgen TL;Elsner P;Coenraads PJ;. Title: Interventions for hand eczema. Journal Name: Cochrane Database of Systematic Reviews. Year: 2006	Protocol for a systematic review only
535	Authors: Vanderploeg DE;. Title: Betamethasone dipropionate ointment in the treatment of psoriasis and atopic dermatitis: a double-blind study. Journal Name: Southern Medical Journal. Year: 1976 Jul	This brief report of an RCT included patients with psoriasis or atopic eczema; no demographic data were reported therefore it is not clear whether any of the patients were children.
536	Authors: Williams HC;. Title: Twice-weekly topical corticosteroid therapy may reduce atopic dermatitis relapses. Journal Name: Archives of Dermatology. Year: 2004 Sep	This publication is commentary on a study that included those young people and adults 12-65 years of age.
537	Authors: Wolkerstorfer A;Visser RL;De Waard van der Spek FB;Mulder PG;Oranje AP;. Title: Efficacy and safety of wet-wrap dressings in children with severe atopic dermatitis: influence of corticosteroid dilution. Journal Name: The British journal of dermatology. Year: 2000 Nov	Excluded from the topical corticosteroid question but included in the bandages question.
538	Authors: Wolthers OD;Heuck C;Ternowitz T;Heickendorff L;Nielsen HK;Frystyk J;. Title: Insulin-like growth factor axis, bone and collagen turnover in children with atopic dermatitis treated with topical glucocorticosteroids. Journal Name: Dermatology. Year: 1996	Budesonide cream is evaluated, which is not available in the UK.
539	Authors: Wong VK;Della CC;Schonfeld S;Mastrangelo AM;Lebwohl M;. Title: Use and abuse of topical corticosteroids in infections of the skin and related structures. [Review] [64 refs]. Journal Name: Journal of Drugs in Dermatology: JDD. Year: 2003 Jun	Narrative review/ opinion.

Topical calcineurin inhibitors

Reference ID	Bibliographic information	Reason for rejecting
540	Simon D. Title: Benefits from the use of a pimecrolimus-based treatment in the management of atopic dermatitis in clinical practice. Analysis of a Swiss cohort. 2006	Children and adults in study. Data not rep separately for children.
394	Title: Childhood atopic eczema consensus document Authors: Manjra AI;du PP;Weiss R;Motala CM;Potter PC;Raboobee N;Ndlova N;Davis M;Weinberg EG; Journal: South African Medical Journal Year: 2005	Consensus statement from a South African group - used as background information.
510	Title: Disease management of atopic dermatitis: An updated practice parameter Authors: Leung DYM;Nicklas RA;Li JT;Bernstein IL;Blessing-Moore J;Boguniewicz M;Chapman JA;Khan DA;Lang D;Lee RE;Portnoy JM;Schuller DE;Spector SL;Tilles SA; Journal: Annals of Allergy, Asthma, and Immunology Year: 2004	Narrative review - background information.
541	Title: Tacrolimus ointment 0.03% shows efficacy and safety in pediatric and adult patients with mild to moderate atopic dermatitis Authors: Chapman MS;Schachner LA;Breneman D;Boguniewicz M;Gold MH;Shull T;Linowski GJ;Jaracz E;US Tacrolimus Ointment Study Group.; Journal: Journal of the American Academy of Dermatology Year: 2005 Aug	This study is a pooled analysis of two vehicle-controlled RCTs, one in children and one in adults. All results are pooled. The source of the original trial data is also not referenced, but the study in children is possibly Schachner 2005.542
545	Title: Safe treatment of head/neck AD with tacrolimus ointment Authors: Kang S;Paller A;Soter N;Satoi Y;Rico MJ;Hanifin JM; Journal: Journal of Dermatological Treatment Year: 2003 Jun	In this report data from two studies (one in adults, 1 in children) are pooled. We have included the study in children already544 therefore this pooled analysis does not provide further information.
545	Title: Tacrolimus ointment is more effective than pimecrolimus cream with a similar safety profile in the treatment of atopic dermatitis: results from 3 randomized, comparative studies Authors: Paller AS;Lebwohl M;Fleischer AB;Antaya R;Langley RG;Kirsner RS;Blum RR;Rico MJ;Jaracz E;Crowe A;Linowski GJ;US/Canada Tacrolimus Ointment Study Group.; Journal: Journal of the American Academy of Dermatology Year: 2005 May	In this report data from three studies (one in adults, two in children) are pooled to provide one summary statistic for all ages for each outcome. The source of the original trial data is not referenced.
546	Title: Effect of pimecrolimus cream 1% on the long-term course of pediatric atopic dermatitis Authors: Papp K;Staab D;Harper J;Potter P;Puig L;Ortonne JP;Molloy S;Barbier N;Paul C;Multicentre Investigator Study Group.; Journal: International Journal of Dermatology Year: 2004 Dec	This report is a pooled analysis of RCTs already considered in the guideline (Wahn 2002547 and Kapp 2002548). No new data are presented in this report therefore it is excluded.
549	Title: Treatment of infants with atopic eczema with pimecrolimus cream 1% improves parents' quality of life: a multicenter, randomized trial Authors: Staab D;Kaufmann R;Brautigam M;Wahn U; Journal: Pediatric allergy and immunology : official publication of the European Society of Pediatric Allergy and Immunology Year: 2005 Sep	This RCT is only published as an abstract.
550	Title: A multicenter trial of the efficacy and safety of 0.03% tacrolimus ointment for atopic dermatitis in Korea Authors: Won CH;Seo PG;Park YM;Yang JM;Lee KH;Sung KJ;Park CW;Kim DW;Chang HS;Won YH;Kim KH; Journal: Journal of Dermatological Treatment Year: 2004 Jan	This study includes 180 adults and children age 2-57 years, treated with tacrolimus for 4 weeks. The mean age is 19 years, and the proportion of children aged under 12 years is not stated, and no results are presented for this age group.
	Title: Efficacy and safety of tacrolimus ointment monotherapy in chinese children with atopic dermatitis Authors: Yeung CK;Ma KC;Chan HH; Journal: Skinmed Year: 2006 Jan	Small case series evaluating 4 weeks' use of tacrolimus ointment - we have evidence of higher level for this product, used for longer durations.
	Title: Safety and tolerability of 1% pimecrolimus cream among infants: experience with 1133 patients treated for up to 2 years. [56 refs] Authors: Paul C;Cork M;Rossi AB;Papp KA;Barbier N;De PY; Journal: Pediatrics Year: 2006 Jan	Narrative review - used to check references.

Antihistamines and antipruritics

Reference ID	Bibliographic information	Reason for rejecting study
553	Authors: . Title: Oral antihistamines for allergic disorders. Journal Name: Drug and Therapeutics Bulletin. Year: 2002	Narrative review -background information.
554	Authors: Anon. Title: Doxepin cream for eczema?. Journal Name: DTB. Year: 2000	Review of a cream that is only available for adults and children over 12 years.
555	Authors: Berth-Jones J;Graham-Brown RA;. Title: Failure of terfenadine in relieving the pruritus of atopic dermatitis.[see comment]. Journal Name: British Journal of Dermatology. Year: 1989 Nov	Age range 11 to 67 years, but mean age 28.6 years.
556	Authors: Chae KM;Tharp MD;. Title: Use and safety of antihistamines in children. Journal Name: Dermatologic Therapy. Year: 2000	Narrative review - background information only.
557	Authors: Curran MP;Scott LJ;Perry CM;. Title: Cetirizine: a review of its use in allergic disorders. Journal Name: Drugs. Year: 2004	Narrative review - used as background information and to check reference list.
558	Authors: Eysenbach G;Williams H;Diepgen TL;. Title: Antihistamines for atopic eczema. Journal Name: Cochrane Database of Systematic Reviews. Year: 2006	Protocol only, and will include patients of all ages
559	Authors: Freitag G;Hoppner T;. Title: Results of a postmarketing drug monitoring survey with a polidocanolurea preparation for dry, itching skin. Journal Name: Current Medical Research and Opinion. Year: 1997	Case series ('drug monitoring survey') of 1611 cases, mean age 22.3 years; 81 were aged under 6 years, and 140 aged 6-16 years. Overall, 48% had atopic eczema. Results were not presented separately for children with atopic eczema. Also, details were lacking regarding how often and how much of the emollient was used. 'Polidocanolurea' refers to a product containing urea 5% and laurylmacrogol 3%.
560	Authors: Herman SM;Vender RB;. Title: Antihistamines in the Treatment of Atopic Dermatitis. Journal Name: Journal of Cutaneous Medicine and Surgery. Year: 2003	Narrative review covering adults and children - background information.
561	Authors: Imaizumi A;Kawakami T;Murakami F;Soma Y;Mizoguchi M;. Title: Effective treatment of pruritus in atopic dermatitis using H1 antihistamines (second-generation antihistamines): changes in blood histamine and tryptase levels. Journal Name: Journal of Dermatological Science. Year: 2003 Oct	Mean age 24 years (range 14-54).
562	Authors: Markham A;Goa KL;. Title: Ketotifen. A review of its therapeutic efficacy in dermatological disorders. Journal Name: Clinical Immunotherapeutics. Year: 1996	Narrative review - background information, and used to check reference list.
563	Authors: Ones U;Tamay Z;. Title: New oral antihistamines in pediatrics and safety of antihistamines in children. Journal Name: Current Medicinal Chemistry - Anti-Inflammatory and Anti-Allergy Agents. Year: 2005	Narrative review - background information
564	Authors: Phillips RL;Koenig CJ;. Title: Antihistamines for atopic dermatitis. Journal Name: Journal of Family Practice. Year: 2000 Mar	This publication is a synopsis of a review, which covered antihistamines for atopic eczema in children aged 11 and above, and in adults. Therefore outside the age range of this guideline.
565	Authors: Shanon A;Feldman W;Leikin L;Pong AH;Peterson R;Williams V;. Title: Comparison of CNS adverse effects between astemizole and chlorpheniramine in children: a randomized, double-blind study. Journal Name: Developmental Pharmacology and Therapeutics. Year: 1993	Children with allergic rhinitis or hay fever were included - those with atopic eczema were excluded.
566	Authors: Simons FE;Simons KJ;Becker AB;Haydey RP;. Title: Pharmacokinetics and antipruritic effects of hydroxyzine in children with atopic dermatitis. Journal Name: Journal of Pediatrics. Year: 1984 Jan	This study focused on pharmacokinetic outcomes after administration of a single dose of hydroxyzine (n = 12, aged 1-14 yrs).
567	Authors: Simons FE;the ETAC Study Group;. Title: Population pharmacokinetics of levocetirizine in very young children: the pediatricians' perspective. Journal Name: Pediatric allergy and immunology : official publication of the European Society of Pediatric Allergy and Immunology. Year: 2005 Mar	No clinical outcomes reported. This only reported pharmacokinetic data from the ETAC study.
557	Authors: Curran MP;Scott LJ;Perry CM;. Title: Cetirizine: a review of its use in allergic disorders. Journal	Narrative review - used as background information and to check

Atopic eczema in children

Reference ID	Bibliographic information	Reason for rejecting study
	Name: Drugs. Year: 2004	reference list.
559	Authors: Freitag G;Hoppner T;. Title: Results of a postmarketing drug monitoring survey with a polidocanolurea preparation for dry, itching skin. Journal Name: Current Medical Research and Opinion. Year: 1997	Case series ('drug monitoring survey') of 1611 cases, mean age 22.3 years; 81 were aged under 6 years, and 140 aged 6-16 years. Overall, 48% had atopic eczema. Results were not presented separately for children with atopic eczema. Also, details were lacking regarding how often and how much of the emollient was used.
566	Authors: Simons FE;Simons KJ;Becker AB;Haydey RP;. Title: Pharmacokinetics and antipruritic effects of hydroxyzine in children with atopic dermatitis. Journal Name: Journal of Pediatrics. Year: 1984 Jan	This study focused on pharmacokinetic outcomes after administration of a single dose of hydroxyzine (n = 12, aged 1-14 yrs).
567	Authors: Simons FE;the ETAC Study Group;. Title: Population pharmacokinetics of levocetirizine in very young children: the pediatricians' perspective. Journal Name: Pediatric allergy and immunology : official publication of the European Society of Pediatric Allergy and Immunology. Year: 2005 Mar	No clinical outcomes reported. This only reported pharmacokinetic data from the ETAC study.

Infections associated with atopic eczema

Reference ID	Bibliographic information	Reason for rejecting study
568	Authors: Bibel DJ;. Title: Staphylococcus aureus and the microbial ecology of atopic dermatitis. Journal Name: Canadian Journal of Microbiology. Year: 1977 Aug	Adult and children's data combined No clinical infection data
569	Authors: Blattner RJ;. Title: Molluscum contagiosum: eruptive infection in atopic dermatitis. [12 refs]. Journal Name: Journal of Pediatrics. Year: 1967 Jun	Review, no new literature.
570	Authors: Bonifazi E;. Title: Role of some infectious agents in atopic dermatitis. Journal Name: Acta Dermato-Venereologica. Year: 1985	General review
571	Authors: Bork K;. Title: Increasing incidence of eczema herpeticum: analysis of seventy-five cases. Journal Name: Journal of the American Academy of Dermatology. Year: 1988 Dec	Adult and children data combined
572	Authors: Chavigny JM;. Title: Effect of an emollient cream on microbial colonisation in patients with atopic dermatitis. Journal Name: Nouvelles Dermatologiques. Year: 1998	No clinical infection data
573	Authors: Cortigiani L;. Title: Presentation of a case of herpeticum eczema arised in an infant. Journal Name: Giornale di Malattie Infettive e Parassitarie. Year: 1989	Italian language
574	Authors: David TJ;. Title: Infection and prevention: current controversies in childhood atopic eczema: a review. [29 refs]. Journal Name: Journal of the Royal Society of Medicine. Year: 1989 Jul	general review paper (1989)
575	Authors: Espana A;. Title: Eczema herpeticum in childhood. Journal Name: Acta Pediatrica Espanola. Year: 1992	Spanish language
576	Authors: Ewing Cl;. Title: Death from eczema herpeticum in a child with severe eczema, mental retardation and cataracts. Journal Name: Journal of the Royal Society of Medicine. Year: 1989 Mar	16 year old case report
577	Authors: Fleischer AB;. Title: Tacrolimus ointment for the treatment of atopic dermatitis is not associated with an increase in cutaneous infections.[see comment]. Journal Name: Journal of the American Academy of Dermatology. Year: 2002 Oct	
578	Authors: Goodyear HM;. Title: Immunological studies of herpes simplex virus infection in children with atopic eczema. Journal Name: British Journal of Dermatology. Year: 1996 Jan	mechanisms paper
579	Authors: Hanifin JM;. Title: Staphylococcal colonization, infection, and atopic dermatitis - Association not etiology. Journal Name: Journal of Allergy and Clinical Immunology. Year: 1986	general review
580	Authors: Higaki S;. Title: Efficacy of Shiunko for the treatment of atopic dermatitis. Journal Name: Journal of International Medical Research. Year: 1999 May	2/7 participants under 12 No clinical infection data
581	Authors: Hon KL;Leung TF;Wong;. Title: Skin diseases in Chinese children at a pediatric dermatology center. Journal Name: Pediatric Dermatology. Year: 2004 Mar	No clinical infection data
582	Authors: Strategos J;. Title: Fusidic acid-betamethasone combination in fected eczema: an open, randomized comparison with gentamicin-betamethasone combination.. Journal Name: Pharmatherapeutica. Year: 1986	Adult and data combined with no indication how many of the 5 atopic eczema patients were children. N=9 children in total.
583	Authors: Parish LC; Jorizzo JL; Breton JJ; Hirman JW; Scangarella NE; Shawar RH; White SM.. Title: Topical retapamulin ointment (1% m wt/wt) twice daily for 5 days versus oral cephalexin twice daily for 10 days in the treatment of secondarily infected dermatitis: results of a randomized controlled trial.. Journal Name: J Am Acad Dermatol. Year: 2006	Adult and child data combined Data of different types of dermatitis combined.
584	Authors: Larsen S; Simonsen L; Melgaard A; Wendicke K; Henriksen AS.. Title: An efficient new formulation of fusidic acid and betamethasone 17-valerate (Fucicort) lipid cream) for treatment of clinically infected atopic dermatitis.. Journal Name: Acta Derm Venereol. Year: 2007	Participants were 6 years and above but mean age was mid 20's with no individual data for children.
585	Authors: Antimicrobial silk clothing in the treatment of atopic dermatitis proves comparable to topical corticosteroid treatment.. Title: Senti G; Steinmann LS; Fischer B; Kurmann R; storni T; Johansen P; Schmid-	no infection or bacterial colonisation data

Atopic eczema in children

Reference ID	Bibliographic information	Reason for rejecting study
	Grendelmeier; Wuthrich B; Kundig TM.. Journal Name: Dermatol. Year: 2006	
586	Authors: Gong JQ; Lin L; Lin T; Hao F; Zeng FQ; Bi ZG; Yi D; Zhao B.. Title: Skin colonization by Staphylococcus aureus in patients with eczema and atopic dermatitis and relevant combined topical therapy: a double-blind multicentre randomized controlled trial.. Journal Name: Br J Dermatol. Year: 2006	A colonisation as opposed to infection plus treatment paper but mixed adult/child data.
587	Authors: Kim KH;Hwang JH;ark KC;. Title: Periauricular eczematization in childhood atopic dermatitis. Journal Name: Pediatric Dermatology. Year: 1996 Jul	No clinical infection data
588	Authors: Leung DYM;. Title: Infection in atopic dermatitis. Journal Name: Current Opinion in Pediatrics. Year: 2003	General review
589	Authors: McKnight JT;. Title: Dermatologic manifestations of giardiasis.. Journal Name: Journal of the American Board of Family Practice. Year: 1992 Jul	Adult data gut infection
590	Authors: Merishita Y;. Title: Possible influences of Staphylococcus aureus on atopic dermatitis - The colonizing features and the effects of staphylococcal enterotoxins. Journal Name: Clinical and Experimental Allergy. Year: 1999	No clinical infection data
591	Authors: Michie CA;. Title: Atopic dermatitis and staphylococcal superantigens. Journal Name: Lancet. Year: 1996 Feb 3	mostly adult data combined with children's No clinical infection data
592	Authors: Minak JG;. Title: Treatment of forms of infantile dermatitis with a multi-purpose drug combination. Journal Name: Current Therapeutic Research, Clinical and Experimental. Year: 1984	No clinical infection data
593	Authors: Morishita Y;. Title: Possible influences of Staphylococcus aureus on atopic dermatitis-- the colonizing features and the effects of staphylococcal enterotoxins. Journal Name: Clinical and Experimental Allergy. Year: 1999 Aug	No clinical infection data
594	Authors: Nakabayashi A;. Title: Identification of Malassezia species isolated from patients with seborrheic dermatitis, atopic dermatitis, pityriasis versicolor and normal subjects. Journal Name: Medical Mycology. Year: 2000 Oct	No clinical infection data
595	Authors: Nasemann TRK;. Title: Treatment of secondary infected atopic dermatitis of the scalp in children. Journal Name: Zeitschrift fur Hautkrankheiten. Year: 1992	German language
596	Authors: Park CW;. Title: Tacrolimus reduces staphylococcal colonization on the skin in Korean atopic dermatitis patients. Journal Name: Drugs Under Experimental and Clinical Research. Year: 2005	No clinical infection data
597	Authors: Park J;. Title: Staphylococcal scalded skin syndrome, review of 20 cases. Journal Name: Korean Journal of Dermatology. Year: 2002	Chinese language
598	Authors: Rincon S;. Title: Malassezia yeast species isolated from patients with dermatologic lesions. Journal Name: Biomedica. Year: 2005 Jun	adult and child data combined No clinical infection data
599	Authors: Roll A;. Title: Microbial colonization and atopic dermatitis. Journal Name: Current Opinion in Allergy and Clinical Immunology. Year: 2004	
600	Authors: Roncero M;. Title: Varicella in a patient with atopic dermatitis treated with topical antihistamines. Journal Name: Acta Pediatrica Espanola. Year: 2002	Spanish language
601	Authors: Ronnerfalt L;. Title: EMLA cream provides rapid pain relief for the curettage of molluscum contagiosum in children with atopic dermatitis without causing serious application-site reactions. Journal Name: Pediatric Dermatology. Year: 1998 Jul	Outcome measure pain not infection
602	Authors: Schempp CM;. Title: Topical treatment of atopic dermatitis with St. John's wort cream--a randomized, placebo controlled, double blind half-side comparison. Journal Name: Phytomedicine : international journal of phytotherapy and phytopharmacology. Year: 2003	No clinical infection data
603	Authors: Shibuya-Masuya E;Kitagawa;. Title: Simultaneous bilateral occurrence of herpes simplex virus keratoconjunctivitis in patients with atopic dermatitis. Journal Name: Folia Ophthalmologica Japonica. Year: 2005	Chinese language

Reference ID	Bibliographic information	Reason for rejecting study
604	Authors: Svejgaard E;. Title: Recent investigations on the relationship between fungal skin diseases and atopic dermatitis.. Journal Name: Acta Dermato-Venereologica. Year: 1989	General paper on fungal infection
605	Authors: Williams JV;Eichenfield LF;Burke BL;Barnes-Eley;. Title: Prevalence of scalp scaling in prepubertal children. Journal Name: Pediatrics. Year: 2005 Jan	No clinical infection data
606	Authors: . Title: Antibiotic therapy in atopic dermatitis. Journal Name: European Journal of Pediatric Dermatology. Year: 1996	General review
607	Authors: Abdel AH;Abdallah MA;skandar IO;alama NR;. Title: Clinical experience with 0.05% halometasone/1% triclosan cream in the treatment of acute infected and infection-prone eczema in Egypt. Journal Name: Journal of International Medical Research. Year: 1987 Nov	No individual data for children
608	Authors: Akiyama H;. Title: Changes in Staphylococcus aureus density and lesion severity after topical application of povidone-iodine in cases of atopic dermatitis. Journal Name: Journal of Dermatological Science. Year: 1997 Nov	Adult data predominantly No clinical infection data
609	Authors: Akiyama H;. Title: Topical use of hinokitil ointment in atopic dermatitis patients - With special reference to colony count of Staphylococcus aureus on the surfaces of atopic dermatitis. Journal Name: Chemotherapy. Year: 1994	Chinese language
610	Authors: Allen HB;. Title: Scaling scalp diseases in children. Journal Name: Clinical Pediatrics. Year: 1983 May	No clinical infection data
611	Authors: Aly R;. Title: Microbial flora of atopic dermatitis. Journal Name: Archives of Dermatology. Year: 1977 Jun	No clinical infection data
612	Authors: Aoki T;. Title: Parents' evaluation of povidone iodine disinfection treatment in atopic dermatitis under 10 years of age. Journal Name: Skin Research. Year: 2005	Chinese language
613	Authors: Arima Y;. Title: Antibacterial effect of beta-thujaplicin on staphylococci isolated from atopic dermatitis: relationship between changes in the number of viable bacterial cells and clinical improvement in an eczematous lesion of atopic dermatitis. Journal Name: Journal of Antimicrobial Chemotherapy. Year: 2003 Jan	Adult data Invitro tests
614	Authors: Brehler RBS;. Title: Atopic dermatitis: The role of Pityrosporum ovale. Journal Name: Journal of the European Academy of Dermatology and Venereology. Year: 2001	general review
615	Authors: Buka RL;. Title: Etanercept is minimally effective in 2 children with atopic dermatitis [7]. Journal Name: Journal of the American Academy of Dermatology. Year: 2005	No clinical infection data
616	Authors: Bundino S;ina AM;arberis;. Title: Evaluation of josamycin in skin infections due to Gram positive in children with atopic eczema. Journal Name: Giornale Italiano di Dermatologia e Venereologia. Year: 1993	Italian paper
617	Authors: Carpenter CL;Jolly HW;McCormick GE;Schneiderman RN;Thompson JG;. Title: Combined steroid-antiinfective topical therapy in common dermatoses: a double-blind, multi-center study of iodochlorhydroxyquin-hydrocortisone in 277 patients. Journal Name: Current Therapeutic Research, Clinical and Experimental. Year: 1973 Sep	No atopic eczema
618	Authors: Celedon JC;. Title: Use of antibacterials in infancy: clinical implications for childhood asthma and allergies. [41 refs]. Journal Name: Treatments in Respiratory Medicine. Year: 2004	General antibacterial review paper
619	Authors: Darmstadt GL;. Title: Oral antibiotic therapy for uncomplicated bacterial skin infections in children. Journal Name: Pediatric Infectious Disease Journal. Year: 1997	General review
620	Authors: Erdmann SM;. Title: Mollusca contagiosa in an infant with atopic eczema. A therapeutic challenge. Journal Name: Hautarzt. Year: 2004	German language
621	Authors: Gross G;. Title: Systemic treatment of mollusca contagiosa with inosiplex. Journal Name: Acta Dermato-Venereologica. Year: 1986	inoslex is an immunostimulant not an antimicrobial
622	Authors: Holland KT;Bojar RA;Cunliffe WJ;. Title: A comparison of the effect of treatment of atopic eczema with and without antimicrobial compounds. Journal Name: Round Table Series - Royal Society of Medicine.	No clinical infection data

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Reference ID	Bibliographic information	Reason for rejecting study
	Year: 1995	
623	Authors: Kryazheva SS;Ebralidze LK;Maltseva NN;Khamaganova IV;. Title: Generalized herpes simplex in a child suffering from atopic dermatitis. Journal Name: Vestnik Dermatologii i Venerologii. Year: 1991	Greek language
624	Authors: Lear JT;English JSC;Jones;. Title: Retrospective review of the use of azathioprine in severe atopic dermatitis. Journal Name: Journal of the American Academy of Dermatology. Year: 1996	adult and child data combined No clinical infection data
625	Authors: Leung DY;. Title: Infection in atopic dermatitis.. Journal Name: Current Opinion in Pediatrics. Year: 2003 Aug	
626	Authors: Lever R;. Title: Clinical features of staphylococcal colonization in atopic dermatitis. Journal Name: Round Table Series - Royal Society of Medicine. Year: 1995	general paper
627	Authors: Lever R;. Title: Staphylococcal colonization in atopic dermatitis and the effect of topical mupirocin therapy. Journal Name: British Journal of Dermatology. Year: 1988 Aug	Adult and child data combined No clinical infection data
628	Authors: Mentasti G;. Title: Treatment of skin lesions in children with a combination of a corticosteroid, an antibacterial and an antifungal agent. Journal Name: Clinical Trials Journal. Year: 1985	Only 10 AE children- no details of infection. No details of relevant outcomes. Universal results and conclusions.
629	Authors: Munoz-Perez MA;. Title: Acanthosis nigricans: a new cutaneous sign in severe atopic dermatitis and Down syndrome.[see comment]. Journal Name: Journal of the European Academy of Dermatology and Venereology. Year: 2001 Jul	Not infection
630	Authors: Nakata K;. Title: A high incidence of Staphylococcus aureus colonization in the external eyes of patients with atopic dermatitis. Journal Name: Ophthalmology. Year: 2000 Dec	No clinical infection data
631	Authors: Novak N;. Title: The role of infections in atopic dermatitis. Journal Name: Revue Francaise d Allergologie et d Immunologie Clinique. Year: 2005	General review
632	Authors: Ogawa T;. Title: Comparative study of staphylococcal flora on the skin surface of atopic dermatitis patients and healthy subjects. Journal Name: Journal of Dermatology. Year: 1994 Jul	No clinical infection data
633	Authors: oz-Perez MA;. Title: Acanthosis nigricans: A new cutaneous sign in severe atopic dermatitis and Down syndrome. Journal Name: Journal of the European Academy of Dermatology and Venereology. Year: 2001	Not infection
634	Authors: Ravenscroft JC;Layton AM;Eady EA;Murtagh MS;Coates;. Title: Short-term effects of topical fusidic acid or mupirocin on the prevalence of fusidic acid resistant (FusR) Staphylococcus aureus in atopic eczema. Journal Name: British Journal of Dermatology. Year: 2003 May	adult and children data
635	Authors: Roll A;. Title: Microbial colonization and atopic dermatitis. [48 refs]. Journal Name: Current Opinion in Allergy and Clinical Immunology. Year: 2004 Oct	general review
636	Authors: Schmid-Grendelmeier P;. Title: The role of sensitization to Malassezia sympodialis in atopic eczema. Journal Name: Chemical Immunology and Allergy. Year: 2006	Effect of microorganism on flare
637	Authors: Schmidt KU;. Title: Eczema herpeticum - diagnosis and therapy. Journal Name: Notfall Medizin. Year: 1985	German language
638	Authors: Sugimoto K;. Title: New successful treatment with disinfectant for atopic dermatitis. Journal Name: Dermatology. Year: 1997	No ages given most likely adult data
639	Authors: Sugimoto K;. Title: The importance of bacterial superantigens produced by Staphylococcus aureus in the treatment of atopic dermatitis using povidone-iodine. Journal Name: Dermatology. Year: 2006	I am unsure about this paper
640	Authors: Sugimoto K;. Title: The importance of disinfection therapy using povidone-iodine solution in atopic dermatitis. Journal Name: Dermatology. Year: 2002	I am not sure about this paper
641	Authors: Svejgaard E;. Title: The role of microorganisms in atopic dermatitis. Journal Name: Seminars in Dermatology. Year: 1990	General review
642	Authors: Wollenberg A;. Title: Predisposing factors and clinical features of eczema herpeticum: A retrospective analysis of 100 cases. Journal Name: Journal of the American Academy of Dermatology. Year:	Adult and children's data combined

Reference ID	Bibliographic information	Reason for rejecting study
	2003	
643	Authors: Yoshikawa K;. Title: Clinical evaluation of children's skin care product containing beta-thujaplicin (Hinokitiol). Study for safety und usefulness of bean stalk series (BS-1210): Body shampoo, oil and medicated cream. Journal Name: Skin Research. Year: 1995	Chinese language
644	Authors: Zabawski EJ;Cockerell CJ;Kahn MA;Greg LJ;. Title: Treatment of atopic dermatitis with zafirlukast. Journal Name: Dermatology Online Journal. Year: 1999	adult data No clinical infection data
527	Authors: Schempp CM; Simon JC;. Title: Behandlung der subakuten atopischen Dermatitis mit Johanniskraut-Crème. Journal Name: Hautarzt. Year: 2003	German language
645	Authors: Ramsay CA;Savoie JM;Gilbert M; Gidon M; Kidson P;. Title: The treatment of atopic dermatitis with topical fusidic acid and hydrocortisone acetate. Journal Name: J Euro Acad Dermatol Venereol. Year: 1996	adult/child combined data bacterial counts only No clinical infection data
48	Authors: Breneman DL; Hanifin JM; Berge CA; Keswick BH; Neumann PB;. Title: The effect of antibacterial soap with 1.5% triclocarban on Staphylococcus aureus in patients with atopic dermatitis. Journal Name: CUTIS. Year: 2000	No ages, probably adults bacterial counts only No clinical infection data
646	Authors: Higaki S; Kitagawa T; Morohashi M; Yamagihi T;. Title: Efficacy of Shiunko for the treatment of atopic dermatitis. Journal Name: J International Med Res. Year: 1999	2/7 participants under 12 No clinical infection data
647	Authors: Harper J;. Title: Double-blind comparison of an antiseptic oil-based bath additive (Oilatum Plus) with regular Oilatum (Oilatum Emollients) for the treatment of atopic eczema. Journal Name: Round table Series. Year: 1995	No clinical infection data
517	Authors: Nilsson EJ; Henning CG; Magnusson J;. Title: Topical cortisosteroids and Staphylococcus aureus in atopic dermatitis. Journal Name: J Am Acad Dermatol. Year: 1992	No clinical infection data
503	Authors: Khobragade KJ;. Title: Efficacy and safety of combination ointment " fluticasone proionate 0.005% plus mupirocon 2.0% " fo the treatment of atopic dermatitis with clinical suspicion of secondary bacterial infection: an open label uncontrolled study. Journal Name: Indian J Dermatol Venereol Leprol. Year: 2005	adult and child data is combined no infection details or outcome measures
648	Authors: Whitefield M;. Title: Effectiveness of a new antimicrobial emollient in the management of eczema/dermatitis. Journal Name: J Dermatol Treat. Year: 1998	Invitro work with microbes from healthy patients
649	Authors: Stalder JF; Fleury M; Sourisse M; Rostin M; Pheline F; Litoux P;. Title: Local steroid therapy and bacterial skin flora in atopic dermatitis. Journal Name: Br J Dermatol. Year: 1994	No clinical infection data
650	Authors: Ling TC; Highet AS;. Title: Irritant reactions to an antiseptic bath emollient. Journal Name: J Dermatol Treat. Year: 2000	No infection data. Included in emollient section.

Management of flares

Reference ID	Bibliographic information	Reason for rejecting study
651	Title: Atopic dermatitis: the concept of flare factors Authors: Dahl MV; Journal: Southern Medical Journal Year: 1977 Apr	More relevant to questions regarding trigger factors.
652	Title: Clinical dose and adverse effects of topical steroids in daily management of atopic dermatitis Authors: Furue M;Terao H;Rikihisa W;Urabe K;Kinukawa N;Nose Y;Koga T; Journal: British Journal of Dermatology Year: 2003 Jan	This study is included in the topical corticosteroid section. It does not contain data relevant to the questions on flares.
505	Title: Evaluation of efficacy and safety of fluticasone propionate (cutivate) application in children with atopic dermatitis in the long-term intermittent method Authors: Krasowska D;Lecewicz-Torun B;Wilkowska A;Roszkiewicz J;Siedlewicz A;Rosinska D;Niezurawska G;Cislo M;Blizanowska A;Okrzeja D; Journal: Przegląd Dermatologiczny Year: 2001	Only the abstract was in English.
536	Title: Twice-weekly topical corticosteroid therapy may reduce atopic dermatitis relapses Authors: Williams HC; Journal: Archives of Dermatology Year: 2004 Sep	This is a commentary on a RCT which is included in the guideline. ⁴⁶⁵ Useful for background information.
653	Title: Worldwide variations in the prevalence of symptoms of atopic eczema in the International Study of Asthma and Allergies in Childhood.[see comment] Authors: Williams H;Robertson C;Stewart A;it-Khaled N;Anabwani G;Anderson R;Asher I;Beasley R;Bjorksten 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 ME;Weiland SK; Journal: Journal of Allergy and Clinical Immunology Year: 1999 Jan	No data reported regarding flares - prevalence only.
654	Title: Staphylococcal infections in patients with atopic dermatitis Authors: Hanifin JM; Journal: Archives of Dermatology Year: 1977	Study more relevant to the infections section than to flares.
655	Title: An overview of atopic dermatitis. Authors: Hanifin JM; Journal: Dermatology Nursing Year: 2003	Narrative review - no information/citations specific to identifying or managing flares.
656	Title: When parents fear the use of topical steroids Authors: Loughnane J; Journal: World of Irish Nursing Year: 2004	Case study use to illustrate the author's opinion of how to optimise topical treatment for atopic eczema. No references cited.
657	Title: Provocation factors of atopic eczema in childhood - A questionnaire-based survey Authors: Rosch A; Journal: Allergo Journal Year: 2004	Only the abstract was published in English. Additionally this study is more relevant to the trigger factors question than to flares.
658	Title: Factors influencing atopic dermatitis-a questionnaire survey of schoolchildren's perceptions Authors: Williams JR;Burr ML;Williams HC; Journal: British Journal of Dermatology Year: 2004	More relevant to the trigger factors questions than the flares questions.

Phototherapy and systemic treatments

Reference ID	Bibliographic information	Reason For Rejecting
522	Title: Methylprednisolone aceponate (MPA) - Use and clinical experience in children Authors: Rampini E; Journal: Journal of Dermatological Treatment Year: 1992	This trial evaluated topical not systemic corticosteroid use.
624	Title: Retrospective review of the use of azathioprine in severe atopic dermatitis Authors: Lear JT;English JSC;Jones; Journal: Journal of the American Academy of Dermatology Year: 1996	This retrospective case note review included 35 patients (children and adults); the proportion of children was not stated and no data were reported separately for them.
659	Title: Cyclosporine restores cytokine imbalance in childhood atopic dermatitis Authors: Campbell DE; Journal: Journal of Allergy and Clinical Immunology Year: 1997 Jun	This paper considers the mechanism of action of ciclosporin for atopic eczema by looking into cytokine levels. No clinical effectiveness data, therefore the study is excluded.
660	Title: Production of interleukin-5 and the suppressive effect of cyclosporin A in childhood severe atopic dermatitis Authors: Ishii E; Journal: Journal of Pediatrics Year: 1996 Jan	This paper considers the possible mechanism of action of ciclosporin, using some data on surrogate markers (interleukins) from one child. It does not provide data on the clinical effectiveness of the intervention.
661	Title: Cyclosporin A treatment of severe atopic dermatitis in a child Authors: Guarneri B; Journal: Pediatric Dermatology Year: 1994 Jun	This letter is a case report of ciclosporin in a 15-month old child, leading to improvements. The method by which treatment success was assessed was not described.
662	Title: Thymopentin treatment in severe atopic dermatitis-clinical and immunological evaluations Authors: Hsieh K; Journal: Archives of Disease in Childhood Year: 1992	Thymopentin is not a product that is known to be available or used in the UK.
663	Title: Randomised double-blind placebo-controlled trial of local cyclosporin in atopic dermatitis Authors: De PY; Journal: Acta dermato-venereologica Supplementum Year: 1989	The study considered topical and not systemic ciclosporin use, and in a population aged 2-29 years (mean 12 years).
664	Title: Recombinant gamma interferon in treatment of patients with atopic dermatitis and elevated IgE levels Authors: Boguniewicz M; Journal: American Journal of Medicine Year: 1990 Apr	The age of the population ranged from 10-53 years (means of 25 and 33 years in the two treatment groups). It is not clear how many children were aged under 12 years, and no data were reported separately for this group.
665	Title: Double-blind randomized placebo-controlled trial of local cyclosporine in atopic dermatitis Authors: De PY; Journal: Archives of Dermatology Year: 1989 Apr	This short (abstract) publication describes the use of topical rather than systemic ciclosporin in a population aged 2-29 years.
666	Title: A randomized, double-blind, placebo-controlled crossover trial of systemic flunisolide in the treatment of children with severe atopic dermatitis Authors: La RM; Journal: Current Therapeutic Research, Clinical and Experimental Year: 1995	Systemic flunisolide is not a product that is known to be available or used in the UK.
667	Title: Combined UVB and UVA phototherapy of atopic eczema Authors: Midelfart K; Journal: Dermatologica Year: 1985	The age of the population ranged from 5-31 years (mean 21 years). The proportion aged under 12 years was not stated and no data were reported separately for this age group.
668	Title: Cyclosporine in children with severe atopic dermatitis.[comment] Authors: Gonzalez-Otero F; Journal: Journal of the American Academy of Dermatology Year: 1997 Jun	This letter was written in response to the Berth-Jones paper669 in order to point out that a lower ciclosporin dose can be used to treat atopic eczema (although no patient details given). We also have other studies that have used ciclosporin at the I
670	Title: The effect of cyclosporin in the treatment of childhood atopic dermatitis Authors: Lee S; Journal: Korean Journal of Dermatology Year: 2000	Only the abstract was in English - the remainder of the paper was in a foreign language. It appears to be a report of 13 children treated with ciclosporin.
671	Title: Cyclosporine treatment decreases the percentage of cutaneous lymphocyte antigen (CLA)(+)CD4(+) T cells in children with severe atopic dermatitis Authors: Lee SY; Journal: Allergy Year: 2004 Oct	This abstract details the effect of ciclosporin treatment in 10 children in terms of its effects on cutaneous lymphocyte antigen. Severity was measured using SCORAD but no numerical data were reported.
672	Title: Cyclosporin in the treatment of severe atopic dermatitis: A retrospective study Authors: Lee S;	A case series of 15 people, with 4 aged under 12 years. However no data were reported separately for those aged under 12 years, and

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Reference ID	Bibliographic information	Reason For Rejecting
673	Journal: Annals of the Academy of Medicine, Singapore Year: 2004 Title: Azathioprine in dermatology: a survey of current practice in the U.K Authors: Tan BB;Lear JT;Gawkrodger DJ;English JS; Journal: British Journal of Dermatology Year: 1997 Mar	only vague global response results given. Background information - no effectiveness data.
674	Title: Oral psoralen photochemotherapy of atopic eczema Authors: Morison WL; Journal: British Journal of Dermatology Year: 1978 Jan	The age of the patients included was 9-63 years, mean 27 years. The proportion of children aged under 12 years was not stated and no data were reported separately for this group.
675	Title: Narrow-band UVB phototherapy for severe atopic dermatitis Authors: Hudson-Peacock MJ; Journal: British Journal of Dermatology Year: 1996	This letter reported the use of phototherapy in a population aged 5-71 years (mean 35 years). Only limited data are given - the proportion of children aged under 12 years is not stated, and no data are reported separately for this group.
676	Title: Phototherapy for children Authors: Knobler E; Journal: Pediatric Dermatology Year: 1996	This paper documents the experience of experts of using phototherapy for various skin conditions (shared at a symposium). Background information.
677	Title: Phototherapy and systemic treatments Authors: Reynolds NJ; Journal: Hospital Medicine (London) Year: 2002	Narrative review - background information.
678	Title: Topical psoralen photochemotherapy for atopic dermatitis: evaluation of two therapeutic regimens for inpatients and outpatients Authors: Yoshiike T; Journal: Journal of Dermatology Year: 1991 Apr	The age range of the study population is outside the guideline scope (12-33 years).
679	Title: Treatment of persistent severe atopic dermatitis in 113 Japanese patients with oral psoralen photochemotherapy Authors: Uetsu N; Journal: Journal of Dermatology Year: 2003 Jun	The age of the study population is outside the guideline scope (12-74 years).
680	Title: UVA/UVB phototherapy for atopic dermatitis revisited Authors: Valkova S; Journal: Journal of Dermatological Treatment Year: 2004 Jul	The age of the study population ranged from 8-45 years (mean 19 years). The proportion aged under 12 years is not stated, and no data were reported separately for this group.
681	Title: Comparison of 5% NaCl Solution and UVB to Mineral Oil and UVB in Patients with Atopic Dermatitis Authors: Choi J; Journal: Korean Journal of Dermatology Year: 2003	Only the abstract was in English - the remainder of the paper was in a foreign language. It appears to compare the results of UVB phototherapy use with sodium chloride solution or mineral oil in 16 patients with atopic eczema (9 were aged under 15 years).
682	Title: UV-light therapies in atopic dermatitis Authors: Falk ES; Journal: Photo-Dermatology Year: 1985 Aug	The age of the study population ranged from 8-52 years (mean 26 years). The proportion of children aged under 12 years was not stated and no data were reported separately for this group.
683	Title: Cumulative UV radiation dose and outcome in clinical practice: Effectiveness of trioxsalen bath PUVA with minimal UVA exposure Authors: Snellman E; Journal: Photodermatology, Photoimmunology and Photomedicine Year: 2000	The age of the study population is outside the scope of this guideline (12-75 years, mean 46 years).
684	Title: A retrospective review of PUVA therapy at the National Skin Centre of Singapore Authors: Tran D; Journal: Photodermatology, Photoimmunology and Photomedicine Year: 2001 Aug	The age of the study population ranged from 4-74 years (mean 36 years); only 11% had eczema ('endogenous' eczema). The proportion of children aged under 12 years with atopic eczema is not stated, and no data are reported separately for them.
685	Title: Should we switch from combination UVA/UVB phototherapy units to narrowband UVB? Authors: Lebwohl M; Journal: Photodermatology, Photoimmunology and Photomedicine Year: 2002	Narrative review - background information
686	Title: Narrow-band ultraviolet B treatment for vitiligo, pruritus, and inflammatory dermatoses Authors: Samson YS; Journal: Photodermatology, Photoimmunology and Photomedicine Year: 2003 Aug	The age of the study population ranged from 7-72 years (mean 35 years), and only 6% had atopic eczema. The proportion aged under 12 years who had atopic eczema is not stated and no data are

Reference ID	Bibliographic information	Reason For Rejecting
687	Title: Ultraviolet-free phototherapy Authors: Krutmann J; Journal: Photodermatology, Photoimmunology and Photomedicine Year: 2005 Apr	reported separately for them.
688	Title: UVA1 phototherapy for cutaneous diseases: an experience of 92 cases in the United States Authors: Tuchinda C; Journal: Photodermatology, Photoimmunology and Photomedicine Year: 2006 Oct	The age of the study population ranged from 3-78 years (mean 42 years) - the proportion aged under 12 years is not stated. Additionally only 7% had atopic eczema.

Complementary therapies

Reference ID	Bibliographic information	Reason for rejecting study
689	Author: Kuenzli; Title: Childhood Bullous Plemphigoid: Report of a Case with Life-Threatening Course during Homeopathy Treatment	Adverse event unlikely to be related to homeopathy rather refusal of conventional medication
690	Takwale A Title: Efficacy and tolerability of borage oil in adults and children with atopic eczema: randomised, double blind, placebo controlled, parallel group trial	Commentary on a previous paper
691	Atherton et al Title: Treatment of atopic eczema with traditional Chinese medicinal plants	Repeat publication
692	Hederos C et al Title: Epogam evening primrose oil treatment in atopic dermatitis and asthma	food supplement/ conventional treatment
68	Hon K et al Title: A pentaherbs capsule as a treatment option for atopic dermatitis in children: an open-labeled case series	Open label case series
693	Fung A et al Title: A controlled trial of traditional Chinese herbal medicine in Chinese patients with recalcitrant atopic dermatitis	adults
414	Schmidt et al Title: Oral evening primrose oil and borage oil for atopic eczema	Cochrane protocol only. Treatment: food supplement/ conventional treatment
694	Schempp CM et al Title: Topical treatment of atopic dermatitis with St. John's wort cream—a randomized, placebo controlled, double blind half-side comparison	adults
695	Armstrong Title: The treatment of eczema with Chinese herbs: a systematic review of randomized clinical trials	Commentary on paper not actual paper
696	Inoue R Title: Severe complications of folk remedies for atopic dermatitis	Eczema occurs as a result of folk remedies
581	Hon et al Title: Skin diseases in Chinese children at a pediatric dermatology center	Survey of Chinese in China
697	Latchman at al Title: Chinese medical herbs in the treatment of atopic dermatitis	General paper
698	Ramgolam V et al Title: Traditional Chinese medicines as immunosuppressive agents	In vitro, no clinical data
699	Stewart AC et al Title: Hypnotherapy as a treatment for atopic dermatitis in adults and children	Uncontrolled, children group 2-15 plus one 24 year old. Data presentation very unclear
700	Bath-hexatall F et al Title: Dietary supplements for established atopic eczema	Cochrane protocol only Treatment: food supplement/ conventional treatment
701	Fujiwaki T et al Title: The effects of rice bran broth bathing in patients with atopic dermatitis	Adults, probably not complementary therapy either
702	Fukuda M et al Title: Treatment for atopic dermatitis by acupuncture	Adults Uncontrolled study
703	Field et al, Title: Massage therapy for skin conditions in young children.	No new data
704	Scott J Title: Treatment by acupuncture: infantile eczema	No clinical data
705	Rosted P Title: A protocol for successful treatment of chronic skin diseases with acupuncture	Case studies of skin conditions, one of 2yr old with eczema
706	Artik S et al Title: Complementary therapy for atopic eczema and other allergic skin diseases Chinese paper	No useful/new data Chinese language
707	Centre for Reviews and Dissemination; Title: Systematic review of treatments for atopic eczema	No new data
708	Breuner CC Title: Complementary medicine in pediatrics: A review of acupuncture, homeopathy, massage, and chiropractic therapies	No useful/new data
709	Sokel B;. Title: A comparison of hypnotherapy and biofeedback in the treatment of childhood atopic eczema	Adult and children's data

Education and adherence to therapy

Reference ID	Bibliographic information	Reason for rejecting study
710	Authors: Agner T;. Title: Compliance among patients with atopic eczema. [11 refs]. Journal Name: Acta Dermato-Venereologica. Year: 2005 Nov	Review - background information.
711	Authors: Beattie PE;Lewis-Jones MS;. Title: Parental knowledge of topical therapies in the treatment of childhood atopic dermatitis. Journal Name: Clinical and Experimental Dermatology. Year: 2003	No mention of adherence/non-adherence.
49	Authors: Broberg A;Kalimo K;Lindblad B;Swanbeck G;. Title: Parental education in the treatment of childhood atopic eczema. Journal Name: Acta Dermato-Venereologica. Year: 1990	No details on non-adherence.
712	Authors: Czyzewski DI;Lopez M;. Title: Clinical psychology in the management of pediatric skin disease. Journal Name: Dermatologic Clinics. Year: 1998	Review only - background information.
713	Authors: Hon KL;Leung TF;Wong Y;So HK;Li AM;Fok TF;. Title: A survey of bathing and showering practices in children with atopic eczema. Journal Name: Clinical and Experimental Dermatology. Year: 2005 Jul	No mention of adherence/non-adherence.
117	Authors: Howlett S;. Title: Emotional dysfunction, child-family relationships and childhood atopic dermatitis. [30 refs]. Journal Name: British Journal of Dermatology. Year: 1999 Mar	Review - background information.
714	Authors: LoPresti L;. Title: Case study: enhancing compliance in an adolescent with atopic dermatitis. Journal Name: Dermatology Nursing. Year: 1992 Jun	The population were aged over 12 years.
715	Authors: Paller AS;McAlister RO;Doyle JJ;Jackson A;. Title: Perceptions of physicians and pediatric patients about atopic dermatitis, its impact, and its treatment. Journal Name: Clinical Pediatrics. Year: 2002	No mention of adherence/non-adherence.
716	Authors: Poysa L;Remes K;Korppi M;Launiala K;. Title: Compliance with a dietary manipulation programme in families with infants prone to atopy. Journal Name: Acta Paediatrica Scandinavica. Year: 1988 Jul	The study considered adherence to preventive measures for atopy, not factors that contribute to adherence in children with atopic eczema.
717	Authors: Renzi C;Picardi A;Abeni D;Agostini E;Baliva G;Pasquini P;Puddu P;Braga M;. Title: Association of dissatisfaction with care and psychiatric morbidity with poor treatment compliance.[see comment]. Journal Name: Archives of Dermatology. Year: 2002 Mar	Only adults were included.
718	Authors: Roos TC;. Title: Psychosomatic aspects of skin care and therapy of atopic dermatitis with regard to the patient's dealing with himself and the parents' dealing with their child. Journal Name: Dermatology and Psychosomatics. Year: 2004	Review article - background information.
719	Authors: Wahn U;Staab D;Nilsson L;. Title: Atopic eczema: How to tackle the most common atopic symptom. Journal Name: Pediatric Allergy & Immunology. Year: 1999	No mention of adherence/non-adherence.
720	Authors: Witkowski JA;. Title: Compliance: the dermatologic patient. [13 refs]. Journal Name: International Journal of Dermatology. Year: 1988 Nov	Review - background information.
711	Authors: Beattie PE;Lewis-Jones MS;. Title: Parental knowledge of topical therapies in the treatment of childhood atopic dermatitis. Journal Name: Clinical and Experimental Dermatology. Year: 2003	Not relevant. Study was about determining the level of use and knowledge of commonly prescribed topical corticosteroid preparations among parents/carers, not about the effectiveness of an education programme.
721	Authors: Carroll CL;Balkrishnan R;Feldman SR;Fleischer AB;Manuel JC;. Title: The burden of atopic dermatitis: impact on the patient, family, and society. [69 refs]. Journal Name: Pediatric Dermatology. Year: 2005 May	Narrative review/opinion - background information.

Atopic eczema in children

Reference ID	Bibliographic information	Reason for rejecting study
432	Authors: Cork MJ;. Title: Causes and treatment of childhood eczema.. Journal Name: Exchange - Quarterly Journal of the National Eczema Society. Year: 2002	Narrative review/opinion - background information.
54	Authors: Cork MJ;Britton J;Butler L;Young S;Murphy R;Keohane SG;. Title: Comparison of parent knowledge, therapy utilization and severity of atopic eczema before and after explanation and demonstration of topical therapies by a specialist dermatology nurse. Journal Name: British Journal of Dermatology. Year: 2003 Sep	Included in the adherence section.
483	Authors: Ersser S;Latter S;Surridge H;Buchanan P;Satherley P;Welbourne S;. Title: Psychological and educational interventions for atopic eczema in children. Journal Name: Cochrane Database of Systematic Reviews. Year: 2006	A protocol on how to psychological and educational interventions for atopic eczema
142	Authors: Gore C;Johnson RJ;Caress AL;Woodcock A;Custovic A;. Title: The information needs and preferred roles in treatment decision-making of parents caring for infants with atopic dermatitis: a qualitative study. Journal Name: Allergy. Year: 2005 Jul	This paper considers the information needs of parents of children with atopic eczema. It does not address the effectiveness of education programmes.
722	Authors: Holm EA;Esmann S;Jemec GB;. Title: Patient education and morbidity in atopic eczema. Journal Name: Dermatology Nursing. Year: 2005 Feb	Narrative review/opinion - background information.
723	Authors: King E;. Title: Patient education. Management of infantile eczema. Journal Name: Australian Family Physician. Year: 2005 May	Editorial on the treatment of eczema - background information.
724	Authors: Lapsley P;. Title: The double benefits of educational programmes for patients with eczema.[see comment][comment]. Journal Name: BMJ. Year: 2006 Apr 22	A commentary on the benefits of educational programmes for children with eczema - background information.
725	Authors: Lynn SE;Lawton S;Newham S;Cox M;Williams HC;Emerson R;. Title: Managing atopic eczema: the needs of children.. Journal Name: Professional Nurse. Year: 1997 Jun	Narrative review - background information.
726	Authors: Wieland S;. Title: Promoting health in children with atopic dermatitis. Journal Name: Nurse Practitioner: American Journal of Primary Health Care. Year: 1998	Narrative review on the epidemiology, pathophysiology, and environmental influences that cause eczema. Background information.
727	Authors: Singer A;. Title: Structured educational programs can improve the treatment of atopic dermatitis and quality of life of caregivers	Comment on 144 already discussed

Monitoring growth

Reference ID	Bibliographic information	Reason for rejecting study
458	Authors: Allen DB;. Title: Systemic effects of inhaled corticosteroid in children. Journal Name: Current Opinion in Pediatrics. Year: 2004	Study included asthma patients only.
728	Authors: Arnetz BB;. Title: Endocrine and dermatological concomitants of mental stress. Journal Name: Acta Dermato-Venereologica. Year:	Adults? No ages were detailed and assessment questionnaires /techniques suggested an adult population
461	Authors: Baum WF;Schneyer U;Lantsch AM;Kloditz E;. Title: Delay of growth and development in children with bronchial asthma, atopic dermatitis and allergic rhinitis. Journal Name: Experimental and Clinical Endocrinology and Diabetes. Year: 2002 Apr	Narrative review-used to check references
729	Authors: Baum WF;. Title: Atopy and hyposomia: Review on the phenomenon of atopic growth retardation. Journal Name: Allergologie. Year: 2000	German language
730	Authors: Charman C;Williams H;. Title: The use of corticosteroids and corticosteroid phobia in atopic dermatitis. Journal Name: Clinics in Dermatology. Year: 2003 May	Narrative review-used as background information
731	Authors: Charman CR;Morris AD;Williams HC;. Title: Topical corticosteroid phobia in patients with atopic eczema. Journal Name: British Journal of Dermatology. Year: 2000 May	Study -used as background information.
478	Authors: David TJ;. Title: Short stature in children with atopic eczema.. Journal Name: Acta Dermato-Venereologica. Year: 1989	Narrative study- used as back ground information.
479	Authors: Del Rosso J.;Friedlander SF;. Title: Corticosteroids: options in the era of steroid-sparing therapy.. Journal Name: Journal of the American Academy of Dermatology. Year: 2005 Jul	Narrative review-used as background information and to check references.
732	Authors: Gebauer S;. Title: Growth impairment in view of pediatric dermatology. Journal Name: Zeitschrift fur Hautkrankheiten. Year: 1997	No relevant data
733	Authors: Gelmetti C;. Title: Diet and atopic dermatitis. Journal Name: Journal of the European Academy of Dermatology and Venereology. Year:	No relevant data
734	Authors: Hanifin JM;Cooper KD;Ho VC;Kang S;Krafchik BR;Margolis DJ;Schachner L;Sidbury R;Whitmore SE;Sieck CK;Van Vorhees AS;. Title: Guidelines of Care for Atopic dermatitis. Journal Name: Journal of the American Academy of Dermatology. Year: 2004	Guideline with no specific guideline regarding growth.
735	Authors: Katz VL;. Title: Severe symmetric intrauterine growth retardation associated with the topical use of triamcinolone. Journal Name: American Journal of Obstetrics and Gynecology. Year: 1990	No relevant data
736	Authors: Katz VL;. Title: Severe symmetric intrauterine growth retardation associated with the topical use of triamcinolone. Journal Name: American Journal of Obstetrics and Gynecology. Year: 1990	No relevant data.
508	Authors: Lane AT;. Title: Efficacy and safety of topical steroids in paediatric atopic dermatitis. Journal Name: Journal of the European Academy of Dermatology and Venereology. Year: 1997	Study was of short-term effects of TCS only. No growth information
737	Authors: Leung AKC;. Title: Managing childhood atopic dermatitis. Journal Name: Advances in Therapy. Year:	No relevant data
394	Authors: Manjra AI;du PP;Weiss R;Motala CM;Potter PC;Raboobee N;Ndlova N;Davis M;Weinberg EG;. Title: Childhood atopic eczema consensus document. Journal Name: South African Medical Journal. Year: 2005	No relevant data.
738	Authors: Musgrove K;Morgan JK;. Title: Infantile eczema: A long-term follow-up study. Journal Name: British Journal of Dermatology. Year: 1976 Oct	Study of social, artistic and sporting activities of adults

Atopic eczema in children

Reference ID	Bibliographic information	Reason for rejecting study
739	Authors: Nicolaidou E;. Title: Antihistamines and steroids in pediatric dermatology. Journal Name: Clinics in Dermatology. Year: 2003	No relevant data
740	Authors: Nomura I;. Title: Hypoproteinemia in severe childhood atopic dermatitis: a serious complication. Journal Name: Pediatric Allergy and Immunology. Year:	Describes hypoproteinemia in children with atopic eczema but has no growth or growth related measures in the paper.
741	Authors: Shapiro GG;. Title: Corticosteroids in the treatment of allergic disease: principles and practice. [56 refs]. Journal Name: Pediatric Clinics of North America. Year: 1983	Narrative data-used as background information
742	Authors: Heuck C; Wolthers OD;. Title: Calculation of knemometric growth rates in group studies of children treated with exogenous glucocorticoids.. Journal Name: Ann Human Biol. Year: 1997	Data is included in 743

Indications for referral

Reference ID	Bibliographic information	Reason For Rejecting
31	Title: Patterns of care and referral in children with atopic dermatitis and concern for food allergy Authors: Thompson MM;Tofte SJ;Simpson EL;Hanifin JM; Journal: Dermatologic Therapy Year: 2006	No relevant or useful information to the referral section.
744	Title: Audit of new referrals to the Hammersmith Hospital for atopic dermatitis over a two-month period Authors: Chu T; Journal: Round Table Series - Royal Society of Medicine Year: 1999	This paper describes the clinical features of 30 children or adults who were referred to a London hospital for management of atopic eczema over a 2-month period. The reasons for referral are not stated, therefore there is no information to address our question.

References

1. Akdis CA, Akdis M, Bieber T et al. Diagnosis and treatment of atopic dermatitis in children and adults: European Academy of Allergy and Clinical Immunology/American Academy of Allergy, Asthma and Immunology/PRACTALL consensus report. *Allergy* 2006; 61:(8)969-87.
2. Anderson ML. Atopic dermatitis – more than a simple skin disorder. *Journal of the American Academy of Nurse Practitioners* 2005; 17:(7)249-55.
3. Barthelette S, Rosenzweig L, Cayce KA et al. Common dermatologic presentations: The red face. *Journal of Clinical Outcomes Management* 2004; 11:(1)36-50.
4. Beltrani VS. The clinical spectrum of atopic dermatitis. *Journal of Allergy and Clinical Immunology* 1999; 104:(3 Pt 2)S87-S98.
5. Ben-Gashir MA and Hay RJ. Reliance on erythema scores may mask severe atopic dermatitis in black children compared with their white counterparts. *British Journal of Dermatology* 2002; 147:(5)920-5.
6. Benn CS, Benfeldt E, Andersen PK et al. Atopic dermatitis in young children: diagnostic criteria for use in epidemiological studies based on telephone interviews. *Acta Dermato-Venereologica* 2003; 83:(5)347-50.
7. Bullus S, Gordon K, Muir J et al. Dermatology assessment tool. *Paediatric Nursing* 1998; 10:(7)12-3.
8. Cheigh NH. Managing a common disorder in children: Atopic dermatitis. *Journal of Pediatric Health Care* 2003; 17:(2)84-8.
9. Diepgen TL, Sauerbrei W, and Fartasch M. Development and validation of diagnostic scores for atopic dermatitis incorporating criteria of data quality and practical usefulness. *Journal of Clinical Epidemiology* 1996; 49:(9)1031-8.
10. Dotterud LK and Falk ES. Evaluation of a self-administered questionnaire on atopic diseases: Discrepancy between self-reported symptoms and objective signs. *European Journal of Public Health* 2000; 10:(2)105-7.
11. Eigenmann PA. Clinical features and diagnostic criteria of atopic dermatitis in relation to age. *Pediatric Allergy and Immunology, Supplement* 2001; 12:(14)69-74.
12. Firooz A, Davoudi SM, Farahmand AN et al. Validation of the diagnostic criteria for atopic dermatitis. *Archives of Dermatology* 1999; 135:(5)514-6.
13. Grin CM. Photo quiz: self-test your diagnostic acumen. Can you identify these disorders in black skin? *Consultant* 2001; 41:(4)550-9.
14. Gu H, Chen XS, Chen K et al. Evaluation of diagnostic criteria for atopic dermatitis: validity of the criteria of Williams et al. in a hospital-based setting. *British Journal of Dermatology* 2001; 145:(3)428-33.
15. Hanifin JM. Diagnostic criteria for atopic dermatitis: consider the context. *Archives of Dermatology* 1999; 135:(12)1551.
16. Hebert AA. Laboratory evaluation of the child with recalcitrant eczema. *Dermatologic Clinics* 1994; 12:(1)109-21.
17. Johnke H, Vach W, Norberg LA et al. A comparison between criteria for diagnosing atopic eczema in infants. *British Journal of Dermatology* 2005; 153:(2)352-8.
18. Kang KF and Tian RM. Criteria for atopic dermatitis in a Chinese population. *Acta Dermato-Venereologica* 1989; Supplementum. 144:26-7.
19. Kanwar AJ and Dhar S. Frequency and significance of major and minor clinical features of atopic dermatitis. *Dermatology* 1995; 190:(4)317.
20. Kanwar AJ, Dhar S, and Kaur S. Evaluation of minor clinical features of atopic dermatitis. *Pediatric Dermatology* 1991; 8:(2)114-6.
21. Kim KH, Chung JH, and Park KC. Clinical evaluation of minor clinical features of atopic dermatitis. *Annals of Dermatology* 1993; 5:(1)9-12.
22. Kramer U, Schafer T, Behrendt H et al. The influence of cultural and educational factors on the validity of symptom and diagnosis questions for atopic eczema. *British Journal of Dermatology* 1998; 139:(6)1040-6.
23. Mevorah B, Frenk E, Wietlisbach V et al. Minor clinical features of atopic dermatitis. Evaluation of their diagnostic significance. *Dermatologica* 1988; 177:(6)360-4.
24. Nagaraja, Kanwar AJ, Dhar S et al. Frequency and significance of minor clinical features in various age-related subgroups of atopic dermatitis in children. *Pediatric Dermatology* 1996; 13:(1)10-3.
25. Olesen AB, Bang K, Juul S et al. Development and validation of a questionnaire for diagnosing atopic dermatitis. *Acta Dermato-Venereologica* 2001; 81:(4)277-81.
26. Perlman HH. Helpful diagnostic clues for differentiation of atopic dermatitis from seborrheic dermatitis. *Annals of Allergy* 1965; 23:(12)583-8.
27. Rothe MJ and Grant-Kels JM. Atopic dermatitis: an update. *Journal of the American Academy of Dermatology* 1996; 35:(1)11-13.
28. Rothe MJ and Grant-Kels JM. Diagnostic criteria for atopic dermatitis. *Lancet* 1996; 348:(9030)769-70.
29. Sturgill S and Bernard LA. Atopic dermatitis update. *Current Opinion in Pediatrics* 2004; 16:(4)396-401.
30. Svensson A, Edman B, and Moller H. A diagnostic tool for atopic dermatitis based on clinical criteria. *Acta dermato-venereologica.Supplementum* 1985; 114:33-40.
31. Thompson MM, Tofte SJ, Simpson EL et al. Patterns of care and referral in children with atopic dermatitis and concern for food allergy. *Dermatologic Therapy* 2006; 19:(2)91-6.
32. Williams HC, Burney PG, Strachan D et al. The U.K. Working Party's Diagnostic Criteria for Atopic Dermatitis. II. Observer variation of clinical diagnosis and signs of atopic dermatitis. *British Journal of Dermatology* 1994; 131:(3)397-405.
33. Wisuthsarewong W and Viravan S. Diagnostic criteria for atopic dermatitis in Thai children. *Journal of the Medical Association of Thailand* 2004; 87:(12)1496-500.
34. Yetman RJ and Parks D. Practice guidelines. Diagnosis and management of atopic dermatitis. *Journal of Pediatric Health Care* 2002; 16:(3)143-5.
35. Amon U, Memmel U, Stoll R et al. Comparison of severity scoring of atopic dermatitis values and serum levels of eosinophil cationic protein and mast cell tryptase for routine evaluation of atopic dermatitis. *Acta Dermato-Venereologica* 2000; 80:(4)284-6.
36. Angelova-Fischer I, Bauer A, Hipler UC et al. The objective severity assessment of atopic dermatitis (OSAAD) score: validity, reliability and sensitivity in adult patients with atopic dermatitis. *British Journal of Dermatology* 2005; 153:(4)767-73.
37. Atakan N and Erdem C. The efficacy, tolerability and safety of a new oral formulation of Sandimmun–Sandimmun Neoral in severe refractory atopic dermatitis. *Journal of the European Academy of Dermatology and Venereology* 1998; 11:(3)240-6.
38. Bahmer FA. ADASI score: atopic dermatitis area and severity index. *Acta Dermato-Venereologica* 1992; 176:(Supplementum.)32-3.
39. Bahmer FA, Schafer J, and Schubert HJ. Quantification of the extent and the severity of atopic dermatitis: the ADASI score. *Archives of Dermatology* 1991; 127:(8)1239-40.

40. Ben-Gashir MA. Relationship between quality of life and disease severity in atopic dermatitis/eczema syndrome during childhood. [40 refs]. *Current Opinion in Allergy and Clinical Immunology* 2003; 3:(5)369-73.
41. Ben-Gashir MA, Seed PT, and Hay RJ. Predictors of atopic dermatitis severity over time. *Journal of the American Academy of Dermatology* 2004; 50:(3)349-56.
42. Berth-Jones J and Graham-Brown RA. Placebo-controlled trial of essential fatty acid supplementation in atopic dermatitis.[erratum appears in *Lancet* 1993 Aug 28;342(8870):564]. *Lancet* 1993; 341:(8860)1557-60.
43. Berth-Jones J, Graham-Brown RA, Marks R et al. Long-term efficacy and safety of cyclosporin in severe adult atopic dermatitis. *British Journal of Dermatology* 1997; 136:(1)76-81.
44. Berth-Jones J, Thompson J, and Graham-Brown RA. Evening primrose oil and atopic eczema. *Lancet* 1995; 345:(8948)520.
45. Bianchi B. Practical application of the scorad index in a clinical trial on children and adults with atopic dermatitis. Abstract 4131. The 19th World Congress of Dermatology 15-20 June, 1997 Sydney, Australia. *Australasian Journal of Dermatology* 1997; 38:(Suppl 2)233.
46. Hoberman A, Wald ER, Hickey RW et al. Oral versus initial intravenous therapy for urinary tract infections in young febrile children. *Pediatrics* 1999; 104:(1 Pt 1)79-86.
47. Bodemer C. How should severe and chronic atopic dermatitis in children be managed? [French]. *Annales de Dermatologie et de Venereologie* 2005; 132:(Spec Iss 1)1S121-30.
48. Breneman DL, Hanifin JM, Berge CA et al. The effect of antibacterial soap with 1.5% triclocarban on *Staphylococcus aureus* in patients with atopic dermatitis. *Cutis* 2000; 66:(4)296-300.
49. Broberg A, Kalimo K, Lindblad B et al. Parental education in the treatment of childhood atopic eczema. *Acta Dermato-Venereologica* 1990; 70:(6)495-9.
50. Broberg A, Svensson A, Borres MP et al. Atopic dermatitis in 5-6-year-old Swedish children: cumulative incidence, point prevalence, and severity scoring. *Allergy* 2000; 55:(11)1025-9.
51. Cavagni G, Caffarelli C, Facchetti F et al. Cutaneous CD30+ cells in children with atopic dermatitis. *International Archives of Allergy and Immunology* 2000; 121:(3)224-8.
52. Charman C. Measuring atopic eczema severity: improving outcome measures for research and clinical practice. 1-39. 2005. University of Nottingham.
53. Cohen JA. A coefficient of agreement for nominal scales. *Educational and Psychological Measurement* 1960; XX:(1)37-46.
54. Cork MJ, Britton J, Butler L et al. Comparison of parent knowledge, therapy utilization and severity of atopic eczema before and after explanation and demonstration of topical therapies by a specialist dermatology nurse. *British Journal of Dermatology* 2003; 149:(3)582-9.
55. Costa C, Rilliet A, Nicolet M et al. Scoring atopic dermatitis: the simpler the better? *Acta Dermato-Venereologica* 1989; 69:(1)41-5.
56. Der-Petrossian M, Seeber A, Honigsman H et al. Half-side comparison study on the efficacy of 8-methoxypsoralen bath-PUVA versus narrow-band ultraviolet B phototherapy in patients with severe chronic atopic dermatitis. *British Journal of Dermatology* 2000; 142:(1)39-43.
57. Dhar S, Malakar R, Chattopadhyay S et al. Correlation of the severity of atopic dermatitis with absolute eosinophil counts in peripheral blood and serum IgE levels. *Indian Journal of Dermatology, Venereology and Leprology* 2005; 71:(4)246-9.
58. Emerson RM, Charman CR, Williams HC, and Allen BR. Modified Rajka and Langeland severity assessment (MRSA) for atopic dermatitis: a useful tool for epidemiological studies. [Abstract] *British Journal of Dermatology* 1998; 139(Suppl. 51):65.
59. Larsson PG, Bergman B, Forsum U et al. Mobiluncus and Cluecells as predictors of PID after first-trimester abortion. *Acta Obstetrica et Gynecologica Scandinavica* 1989; 68:217-20.
60. Emerson RM, Williams HC, and Allen BR. Severity distribution of atopic dermatitis in the community and its relationship to secondary referral. *British Journal of Dermatology* 1998; 139:(1)73-6.
61. Finlay AY. Measurement of disease activity and outcome in atopic dermatitis. *British Journal of Dermatology* 1996; 135:(4)509-15.
62. Frezzolini A, Paradisi M, Zaffiro A et al. Circulating interleukin 16 (IL-16) in children with atopic/eczema dermatitis syndrome (AEDS): a novel serological marker of disease activity. *Allergy* 2002; 57:(9)815-20.
63. Friedman JY, Reed SD, Weinfurt KP et al. Parents' reported preference scores for childhood atopic dermatitis disease states. *BMC Pediatrics* 2004; 4:(1)21-9.
64. Furue M, Sugiyama H, Tsukamoto K et al. Serum soluble IL-2 receptor (sIL-2R) and eosinophil cationic protein (ECP) levels in atopic dermatitis. *Journal of Dermatological Science* 1994; 7:(2)89-95.
65. Granlund H, Erkkö P, Sinisalo M et al. Cyclosporin in atopic dermatitis: time to relapse and effect of intermittent therapy. *British Journal of Dermatology* 1995; 132:(1)106-12.
66. Hanifin JM. Standardized grading of subjects for clinical research studies in atopic dermatitis: workshop report. *Acta Dermato-Venereologica* 1989; Supplementum. 144:28-30.
67. Hirai S, Kageshita T, Kimura T et al. Soluble intercellular adhesion molecule-1 and soluble E-selectin levels in patients with atopic dermatitis. *British Journal of Dermatology* 1996; 134:(4)657-61.
68. Hon K, Leung TF, Wong Y et al. A pentaherbs capsule as a treatment option for atopic dermatitis in children: an open-labeled case series. *American Journal of Chinese Medicine* 2004; 32:(6)941-50.
69. Hon KL, Leung TF, Ma KC et al. Serum levels of cutaneous T-cell attracting chemokine (CTACK) as a laboratory marker of the severity of atopic dermatitis in children. *Clinical and Experimental Dermatology* 2004; 29:(3)293-6.
70. Hon KL, Leung TF, Ma KC et al. Serum concentration of IL-18 correlates with disease extent in young children with atopic dermatitis. *Pediatric Dermatology* 2004; 21:(6)619-22.
71. Ikezawa Z, Ikebe T, Ogura H et al. Mass trial of hypoallergenic rice (HRS-1) produced by enzymatic digestion in atopic dermatitis with suspected rice allergy. HRS-1 Research Group. *Acta Dermato-Venereologica* 1992; 176:(Supplementum.)108-12.
72. Kagi MK, Joller-Jemelka H, and Wuthrich B. Correlation of eosinophils, eosinophil cationic protein and soluble interleukin-2 receptor with the clinical activity of atopic dermatitis. *Dermatology* 1992; 185:(2)88-92.
73. Kanthraj GR. Computer aided design mapping for SCORAD index in atopic dermatitis—accessible and economical. *Pediatric Allergy and Immunology* 2005; 16:(2)182-3.
74. Kowalczik L, Kleinheinz A, Weichenthal M et al. Low dose versus medium dose UV-A1 treatment in severe atopic eczema. *Acta Dermato-Venereologica* 1995; 75:(1)43-5.
75. Krutmann J, Diepgen TL, Luger TA et al. High-dose UVA1 therapy for atopic dermatitis: results of a multicenter trial. *Journal of the American Academy of Dermatology* 1998; 38:(4)589-93.
76. Kunz B, Oranje AP, Labreze L et al. Clinical validation and guidelines for the SCORAD index: consensus report of the European Task Force on Atopic Dermatitis. *Dermatology* 1997; 195:(1)10-9.

77. La Grutta S, Richiusa P, Pizzolanti G et al. CD4(+)IL-13(+) cells in peripheral blood well correlates with the severity of atopic dermatitis in children. *Allergy* 2005; 60:(3)391-5.
78. Laske N and Niggemann B. Does the severity of atopic dermatitis correlate with serum IgE levels? *Pediatric Allergy and Immunology* 2004; 15:(1)86-8.
79. Leung TF, Ma KC, Hon KL et al. Serum concentration of macrophage-derived chemokine may be a useful inflammatory marker for assessing severity of atopic dermatitis in infants and young children. *Pediatric Allergy and Immunology* 2003; 14:(4)296-301.
80. Lewis-Jones MS and Charman CR. Atopic Dermatitis: Scoring severity and quality of life assessment. In: Harper J, Oranje AP, eds. Textbook of pediatric dermatology. 2nd ed. Blackwell Publishing; 2006. p. 65-78.
81. Lewis-Jones MS, Finlay AY, and Dykes PJ. The infants' dermatitis quality of life index. *British Journal of Dermatology* 2001; 144:(1)104-10.
82. Lintu P, Savolainen J, Kortekangas-Savolainen O et al. Systemic ketoconazole is an effective treatment of atopic dermatitis with IgE-mediated hypersensitivity to yeasts. *Allergy* 2001; 56:(6)512-7.
83. Luger T, Van Leent EJ, Graeber M et al. SDZ ASM 981: an emerging safe and effective treatment for atopic dermatitis. *British Journal of Dermatology* 2001; 144:(4)788-94.
84. Meads DM, McKenna SP, and Kahler K. The quality of life of parents of children with atopic dermatitis: interpretation of PIQoL-AD scores. *Quality of Life Research* 2005; 14:(10)2235-45.
85. Moore C, Ehlhaye M, Inostroza J et al. Elevated levels of soluble HLA class I (sHLA-I) in children with severe atopic dermatitis. *Annals of Allergy, Asthma, and Immunology* 1997; 79:(2)113-8.
86. Muzaffar F, Hussain I, Rani Z et al. Emollients as an adjunct therapy to topical corticosteroids in children with mild to moderate atopic dermatitis. *Journal of Pakistan Association of Dermatologists* 2002; 12:(APR.)64-8.
87. Noh G and Lee KY. Successful interferon alpha therapy in atopic dermatitis of Besnier's prurigo pattern with normal serum IgE and blood eosinophil fraction: randomized case-controlled study. *Cytokine* 2001; 13:(2)124-8.
88. Oymar K and Aksnes L. Increased levels of urinary leukotriene E4 in children with severe atopic eczema/dermatitis syndrome. *Allergy* 2005; 60:(1)86-9.
89. Pucci N, Lombardi E, Novembre E et al. Urinary eosinophil protein X and serum eosinophil cationic protein in infants and young children with atopic dermatitis: correlation with disease activity. *Journal of Allergy and Clinical Immunology* 2000; 105:(2 Pt 1)353-7.
90. Queille-Roussel C, Raynaud F, and Saurat JH. A prospective computerized study of 500 cases of atopic dermatitis in childhood. I. Initial analysis of 250 parameters. *Acta Dermato-Venereologica* 1985; 114:(Suppl)87-92.
91. Rajka G and Langeland T. Grading of the severity of atopic dermatitis. *Acta Dermato-Venereologica* 1989; Supplementum. 144:13-4.
92. Schafer T, Heinrich J, Wjst M et al. Association between severity of atopic eczema and degree of sensitization to aeroallergens in schoolchildren. *Journal of Allergy and Clinical Immunology* 1999; 104:(6)1280-4.
93. Shimada Y, Sato S, Hasegawa M et al. Elevated serum L-selectin levels and abnormal regulation of L-selectin expression on leukocytes in atopic dermatitis: Soluble L-selectin levels indicate disease severity. *Journal of Allergy and Clinical Immunology* 1999; 104:(1)163-8.
94. Son SW, Park SY, Ha SH et al. Objective evaluation for severity of atopic dermatitis by morphologic study of skin surface contours. *Skin Research and Technology* 2005; 11:(4)272-80.
95. Sowden JM, Berth-Jones J, Ross JS et al. Double-blind, controlled, crossover study of cyclosporin in adults with severe refractory atopic dermatitis. *Lancet* 1991; 338:(8760)137-40.
96. Takigawa M, Tamamori T, Horiguchi D et al. Fc epsilon receptor II/CD23-positive lymphocytes in atopic dermatitis. I. The proportion of Fc epsilon RII+ lymphocytes correlates with the extent of skin lesion. *Clinical and Experimental Immunology* 1991; 84:(2)275-82.
97. Tan BB, Weald D, Strickland I et al. Double-blind controlled trial of effect of housedust-mite allergen avoidance on atopic dermatitis. *Lancet* 1996; 347:(8993)15-8.
98. Bommer J, Ritz E, del Pozo E et al. Improved sexual function in male haemodialysis patients on bromocriptine. *Lancet* 1979; 2:(8141)496-7.
99. Taniuchi S, Chihara J, Kojima T et al. Serum eosinophil derived neurotoxin may reflect more strongly disease severity in childhood atopic dermatitis than eosinophil cationic protein. *Journal of Dermatological Science* 2001; 26:(1)79-82.
100. Tarroux R, Assalit MF, Licu D et al. Variability of enzyme markers during clinical regression of atopic dermatitis. *Skin Pharmacology and Applied Skin Physiology* 2002; 15:(1)55-62.
101. Tofte S, Graeber M, Cherill M, Omoto M, Thurston M, and Hanifin JM. Eczema area and severity index (EASI): A new tool to evaluate atopic dermatitis. [Abstract] *Journal of the European Academy of Dermatology and Venereology* 1998; 11(Supplement 2):S197.
102. Toma T, Mizuno K, Okamoto H et al. Expansion of activated eosinophils in infants with severe atopic dermatitis. *Pediatrics International* 2005; 47:(1)32-8.
103. Tsuboi H, Kouda K, Takeuchi H et al. 8-hydroxydeoxyguanosine in urine as an index of oxidative damage to DNA in the evaluation of atopic dermatitis. *British Journal of Dermatology* 1998; 138:(6)1033-5.
104. van JT, Heule F, Korstanje M et al. Cyclosporin in atopic dermatitis: a multicentre placebo-controlled study. *British Journal of Dermatology* 1994; 130:(5)634-40.
105. van Joost T, Kozel MM, Tank B et al. Cyclosporine in atopic dermatitis. Modulation in the expression of immunologic markers in lesional skin. *Journal of the American Academy of Dermatology* 1992; 27:(6 Pt 1)922-8.
106. Van Leent EJ, Graber M, Thurston M et al. Effectiveness of the ascomycin macrolactam SDZ ASM 981 in the topical treatment of atopic dermatitis. *Archives of Dermatology* 1998; 134:(7)805-9.
107. Walker C, Kagi MK, Ingold P et al. Atopic dermatitis: correlation of peripheral blood T cell activation, eosinophilia and serum factors with clinical severity. *Clinical and Experimental Allergy* 1993; 23:(2)145-53.
108. Wuthrich B, Kagi MK, and Joller-Jemelka H. Soluble CD14 but not interleukin-6 is a new marker for clinical activity in atopic dermatitis. *Archives of Dermatological Research* 1992; 284:(6)339-42.
109. Wilson ME, Megel ME, Fredrichs AM et al. Physiologic and behavioral responses to stress, temperament, and incidence of infection and atopic disorders in the first year of life: a pilot study. *Journal of Pediatric Nursing* 2003; 18:(4)257-66.
110. Laihininen A. Assessment of psychiatric and psychosocial factors disposing to chronic outcome of dermatoses. *Acta Dermato-Venereologica* 1991; Supplementum. 156:46-8.
111. Hashiro M and Okumura M. Anxiety, depression and psychosomatic symptoms in patients with atopic dermatitis: comparison with normal controls and among groups of different degrees of severity. *Journal of Dermatological Science* 1997; 14:(1)63-7.
112. Koblenzer CS and Koblenzer PJ. Chronic intractable atopic eczema. Its occurrence as a physical sign of impaired parent-child relationships and psychologic developmental arrest: improvement through parent insight and education. [31 refs]. *Archives of Dermatology* 1988; 124:(11)1673-7.
113. Yang S-J, Yun S-J, Lee J-W et al. Relationship between severity of childhood atopic dermatitis and subject's characteristics including psychological, behavioral and familial problems. *Korean Journal of Dermatology* 2005; 43:(9)1170-6.

114. Arima M, Shimizu Y, Sowa J et al. Psychosomatic analysis of atopic dermatitis using a psychological test. *Journal of Dermatology* 2005; 32:(3)160-8.
115. Misery L and Chastaing M. Joint consultation by a psychiatrist and a dermatologist. *Dermatology and Psychosomatics* 2003; 4:(3)160-4.
116. Kiebert G, Sorensen SV, Revicki D et al. Atopic dermatitis is associated with a decrement in health-related quality of life. *International Journal of Dermatology* 2002; 41:(3)151-8.
117. Howlett S. Emotional dysfunction, child-family relationships and childhood atopic dermatitis. [30 refs]. *British Journal of Dermatology* 1999; 140:(3)381-4.
118. Liedtke R. Socialization and psychosomatic disease: an empirical study of the educational style of parents with psychosomatic children. *Psychotherapy and Psychosomatics* 1990; 54:(4)208-13.
119. Yogev Y, Langer O, Xenakis EM et al. Glucose screening in Mexican-American women. *Obstetrics and Gynecology* 2004; 103:(6)1241-5.
120. Weijers RN, Bekedam DJ, Goldschmidt HM et al. The clinical usefulness of glucose tolerance testing in gestational diabetes to predict early postpartum diabetes mellitus. *Clinical Chemistry and Laboratory Medicine* 2006; 44:(1)99-104.
121. Lundberg L, Johannesson M, Silverdahl M et al. Health-related quality of life in patients with psoriasis and atopic dermatitis measured with SF-36, DLQI and a subjective measure of disease activity. *Acta Dermato-Venereologica* 2000; 80:(6)430-4.
122. Long CC, Funnell CM, Collard R et al. What do members of the National Eczema Society really want? *Clinical and Experimental Dermatology* 1993; 18:(6)516-22.
123. Cox M. Living with the enemy: eczema in the family. *Journal of Family Health Care* 2005; 15:(4)102-3.
124. Moore K, David TJ, Murray CS et al. Effect of childhood eczema and asthma on parental sleep and well-being: A prospective comparative study. *British Journal of Dermatology* 2006; 154:(3)514-8.
125. Balkrishnan R, Housman TS, Grummer S et al. The family impact of atopic dermatitis in children: the role of the parent caregiver. *Pediatric Dermatology* 2003; 20:(1)5-10.
126. Balkrishnan R, Housman TS, Carroll C et al. Disease severity and associated family impact in childhood atopic dermatitis. *Archives of Disease in Childhood* 2003; 88:(5)423-7.
127. Balkrishnan R, Manuel J, Clarke J et al. Effects of an episode of specialist care on the impact of childhood atopic dermatitis on the child's family. *Journal of Pediatric Health Care* 2003; 17:(4)184-9.
128. Whalley D, Huels J, McKenna SP et al. The benefit of pimecrolimus (Elidel, SDZ ASM 981) on parents' quality of life in the treatment of pediatric atopic dermatitis. *Pediatrics* 2002; 110:(6)1133-6.
129. Allen AD. Intractable atopic eczema suggests major affective disorder: poor parenting is secondary. *Archives of Dermatology* 1989; 125:(4)567-8.
130. McSkimming J, Gleeson L, and Sinclair M. A pilot study of a support group for parents of children with eczema. *Australasian Journal of Dermatology* 1984; 25:(1)8-11.
131. McKenna SP, Whalley D, De PY et al. Treatment of paediatric atopic dermatitis with pimecrolimus (Elidel, SDZ ASM 981): Impact ON quality of life and health-related quality of life. *Journal of the European Academy of Dermatology and Venereology* 2006; 20:(3)248-54.
132. Staab D, Kaufmann R, Brautigam M et al. Treatment of infants with atopic eczema with pimecrolimus cream 1% improves parents' quality of life: A multicenter, randomized trial. *Pediatric Allergy and Immunology* 2005; 16:(6)527-33.
133. Arvola T, Tahvanainen A, and Isolauri E. Concerns and expectations of parents with atopic infants. *Pediatric Allergy and Immunology* 2000; 11:(3)183-8.
134. Hulka JF, Lefler HT, Jr., Anglone A et al. A new electronic force monitor to measure factors influencing cervical dilation for vacuum curettage. *American Journal of Obstetrics and Gynecology* 1974; 120:(2)166-73.
135. Rath W, Pitzel L, Hilgers R et al. [Dose-dependent effect of locally administered sulprostone gel on serum luteal and placental hormones in cervix priming in the 1st trimester]. [German]. *Zentralblatt fur Gynakologie* 1989; 111:(10)634-44.
136. Gil KM, Keefe FJ, Sampson HA et al. The relation of stress and family environment to atopic dermatitis symptoms in children. *Journal of Psychosomatic Research* 1987; 31:(6)673-84.
137. von Ruden U, Bunikowski R, Brautigam M et al. Cyclosporin A treatment of children with severe atopic dermatitis improves quality of life of their mothers. *Dermatology and Psychosomatics* 2002; 3:(1)14-8.
138. Warschburger P, Landgraf JM, Petermann F et al. Health-related quality of life in children assessed by their parents: Evaluation of the psychometric properties of the CHQ-PF50 in two German clinical samples. *Quality of Life Research* 2003; 12:(3)291-301.
139. Warschburger P, Buchholz HT, and Petermann F. Psychological adjustment in parents of young children with atopic dermatitis: which factors predict parental quality of life? *British Journal of Dermatology* 2004; 150:(2)304-11.
140. Jain JK and Mishell DR, Jr. A comparison of misoprostol with and without laminaria tents for induction of second-trimester abortion. *American Journal of Obstetrics and Gynecology* 1996; 175:(1)173-7.
141. Lauersen NH and Conran P. Effect of oxytocic agents on blood loss during first trimester suction curettage. *Obstetrics and Gynecology* 1974; 44:428-33.
142. Gore C, Johnson RJ, Caress AL et al. The information needs and preferred roles in treatment decision-making of parents caring for infants with atopic dermatitis: a qualitative study. *Allergy* 2005; 60:(7)938-43.
143. Kaali SG, Szigetvari I, and Bartfai G. Laparoscopic Sterilization Combined with Dilation and Evacuation Up to 18 Weeks' Gestation. *Journal of Reproductive Medicine* 1989;463-4.
144. Staab D, Diepgen TL, Fartasch M et al. Age related, structured educational programmes for the management of atopic dermatitis in children and adolescents: multicentre, randomised controlled trial. *British Medical Journal* 2006; 332:(7547)933-8.
145. Meirik O, Nygren KG, Bergstrom R et al. Outcome of delivery subsequent to induced vacuum aspiration abortion in parous women. *American Journal of Epidemiology* 1982; 116:(3)415-29.
146. Chamlin SL, Frieden IJ, Williams ML et al. Effects of atopic dermatitis on young American children and their families. *Pediatrics* 2004; 114:(3)607-11.
147. Holm EA, Wulf HC, and Stegmann. Life quality assessment among patients with atopic eczema. *British Journal of Dermatology* 2006; 154:(4)719-25.
148. Moore E. Nurse-led clinics reduce severity of childhood atopic eczema: A review of the literature. *British Journal of Dermatology* 2006; 155:(6)1242-8.
149. UllmanKC, Moore RW, and Reidy M. Atopic eczema: a clinical psychiatric study. *Journal of Asthma Research* 1977; 14:(2)91-9.
150. Dickover RE, Dillon M, Leung KM et al. Early prognostic indicators in primary perinatal human immunodeficiency virus type 1 infection: importance of viral RNA and the timing of transmission on long-term outcome. *Journal of Infectious Diseases* 1998; 178:(2)375-87.
151. Linnet J and Jemec GBE. Anxiety level and severity of skin condition predicts outcome of psychotherapy in atopic dermatitis patients. *International Journal of Dermatology* 2001; 40:(10)632-6.
152. Gupta MA and Gupta AK. Use of eye movement desensitization and reprocessing (EMDR) in the treatment of dermatologic disorders. *Journal of Cutaneous Medicine and Surgery* 2002; 6:(5)415-21.

153. Office for National Statistics. Legal abortions 1996: residents of regions and health authorities. AB 97/5. 1997. London, Office for National Statistics.
154. Capoore HS, Rowland Payne CM, and Goldin D. Does psychological intervention help chronic skin conditions? *Postgraduate Medical Journal* 1998; 74:(877)662-4.
155. Anderson HR, Pottier AC, and Strachan DP. Asthma from birth to age 23: incidence and relation to prior and concurrent atopic disease. *Thorax* 1992; 47:(7)537-42.
156. Austin JB, Kaur B, Anderson HR et al. Hay fever, eczema, and wheeze: a nationwide UK study (ISAAC, international study of asthma and allergies in childhood). *Archives of Disease in Childhood* 1999; 81:(3)225-30.
157. Cantani A and Micera M. Epidemiology of atopy in 220 children. Diagnostic reliability of skin prick tests and total and specific IgE levels. *Minerva Pediatrica* 138; 55:(2)129-37.
158. Child FJ, Fuller LC, Higgins EM et al. A study of the spectrum of skin disease occurring in a black population in south-east London. *British Journal of Dermatology* 1999; 141:(3)512-7.
159. Cudowska B and Kaczmarek M. Atopy patch test in the diagnosis of food allergy in children with atopic eczema dermatitis syndrome. *Roczniki Akademii Medycznej W Białymstoku* 2005; 50:261-7.
160. Dunwell P and Rose A. Study of the skin disease spectrum occurring in an Afro-Caribbean population. *International Journal of Dermatology* 2003; 42:(4)287-9.
161. Fergusson DM, Horwood LJ, and Shannon FT. Early solid feeding and recurrent childhood eczema: a 10-year longitudinal study. *Pediatrics* 1990; 86:(4)541-6.
162. George AO. Atopic dermatitis in Nigeria. *International Journal of Dermatology* 1989; 28:(4)237-9.
163. Haileamlak A, Lewis SA, Britton J et al. Validation of the International Study of Asthma and Allergies in Children (ISAAC) and U.K. criteria for atopic eczema in Ethiopian children. *British Journal of Dermatology* 2005; 152:(4)735-41.
164. Halken S. Prevention of allergic disease in childhood: clinical and epidemiological aspects of primary and secondary allergy prevention. *Pediatric Allergy and Immunology* 2004; 15:(Suppl 16)9-32.
165. Harris JM, Cullinan P, Williams HC et al. Environmental associations with eczema in early life. *British Journal of Dermatology* 2001; 144:(4)795-802.
166. Janumpally SR, Feldman SR, Gupta AK et al. In the United States, blacks and Asian/Pacific Islanders are more likely than whites to seek medical care for atopic dermatitis. *Archives of Dermatology* 2002; 138:(5)634-7.
167. Meglio P, Arabito E, Plantamura M et al. Prevalence of latex allergy and evaluation of some risk factors in a population of atopic children. *Journal of Investigational Allergology and Clinical Immunology* 2002; 12:(4)250-6.
168. Millikan LE. Atopic dermatitis. Clinical spectrum and approach to treatment. *Postgraduate Medicine* 1984; 76:(1)139-46.
169. Nanda A, Al-Hasawi F, and Alsaleh QA. A prospective survey of pediatric dermatology clinic patients in Kuwait: an analysis of 10,000 cases. *Pediatric Dermatology* 1999; 16:(1)6-11.
170. Novembre E, Cianferoni A, Lombardi E et al. Natural history of "intrinsic" atopic dermatitis. *Allergy* 2001; 56:(5)452-3.
171. Poysa L, Korppi M, Pietikainen M et al. Asthma, allergic rhinitis and atopic eczema in Finnish children and adolescents. *Allergy* 1991; 46:(3)161-5.
172. Remes ST, Korppi M, Kajosaari M et al. Prevalence of allergic rhinitis and atopic dermatitis among children in four regions of Finland. *Allergy* 1998; 53:(7)682-9.
173. Rennick GJ, Moore E, and Orchard DC. Skin prick testing to food allergens in breast-fed young infants with moderate to severe atopic dermatitis. *Australasian Journal of Dermatology* 2006; 47:(1)41-5.
174. Rottem M, Darawsha J, and Zarfín J. Atopic dermatitis in infants and children in Israel: clinical presentation, allergies and outcome. *Israel Medical Association Journal* 2004; 6:(4)209-12.
175. Rudzeviciene O, Narkeviciute I, and Eidukevicius R. Lactose malabsorption in young Lithuanian children with atopic dermatitis. *Acta Paediatrica* 2004; 93:(4)482-6.
176. Shibeshi D. Pattern of skin disease at the Ethio-Swedish pediatric hospital, Addis Ababa, Ethiopia. *Pediatric Dermatology* 2000; 17:(5)357-9.
177. Tamsmark TH, Koch A, Melbye M et al. Incidence and predictors of atopic dermatitis in an open birth cohort in Sisimiut, Greenland. *Acta Paediatrica* 2001; 90:(9)982-8.
178. Tariq SM, Matthews SM, Hakim EA et al. Egg allergy in infancy predicts respiratory allergic disease by 4 years of age. *Pediatric Allergy and Immunology* 2000; 11:(3)162-7.
179. van Asperen PP, Kemp AS, and Mellis CM. A prospective study of the clinical manifestations of atopic disease in infancy. *Acta Paediatrica Scandinavica* 1984; 73:(1)80-5.
180. Voor T, Julge K, Bottcher MF et al. Atopic sensitization and atopic dermatitis in Estonian and Swedish infants. *Clinical and Experimental Allergy* 2005; 35:(2)153-9.
181. Wahn U and Bauer C-P. Baseline epidemiological data from ETAC. *Allergologie* 1998; 21:(4)S58-S67.
182. Wenk C and Itin PH. Epidemiology of pediatric dermatology and allergology in the region of Aargau, Switzerland. *Pediatric Dermatology* 2003; 20:(6)482-7.
183. Williams HC. Epidemiology of atopic dermatitis. In: Harper J, Oranje AP, Prose N, eds. *Textbook of Pediatric Dermatology*. Blackwell; 2005. p. 161-8.
184. Williams H. The natural history of atopic eczema. In: Williams H, ed. *Atopic Dermatitis: the Epidemiology, Causes and Prevention of Atopic Eczema*. Cambridge: Cambridge University Press; 2000. p. 41-59.
185. Charman CR and Williams HC. Epidemiology. In: Bieber T, Leung DYM, eds. *Atopic Dermatitis*. New York: Dekker; 2002. p. 21-42.
186. Yates VM, Kerr RE, and MacKie RM. Early diagnosis of infantile seborrhoeic dermatitis and atopic dermatitis—clinical features. *British Journal of Dermatology* 1983; 108:(6)633-8.
187. Kawano Y, Morikawa M, Watanabe M et al. A study of the factors responsible for the development of allergic diseases in early life. *Asian Pacific Journal of Allergy and Immunology* 2005; 23:(1)1-6.
188. Alfvén T, Braun-Fahrlander C, Brunekreef B et al. Allergic diseases and atopic sensitization in children related to farming and anthroposophic lifestyle - The PARSIFAL study. *Allergy* 2006; 61:(4)414-21.
189. Leung RC, Carlin JB, Burdon JG et al. Asthma, allergy and atopy in Asian immigrants in Melbourne. *Medical Journal of Australia* 1994; 161:(7)418-25.
190. Rajka G. Atopic dermatitis. Correlation of environmental factors with frequency. *International Journal of Dermatology* 1986; 25:(5)301-4.
191. Schäfer T, Vieluf D, Behrendt H et al. Atopic eczema and other manifestations of atopy: results of a study in East and West Germany. *Allergy* 1996; 51:(8)532-9.
192. Friday GA, Jr. and Smith J. Breast-feeding and atopic dermatitis. *Pediatric Asthma Allergy and Immunology* 2000; 14:(3)205-9.

193. Benn CS, Wohlfahrt J, Aaby P *et al.* Breastfeeding and risk of atopic dermatitis, by parental history of allergy, during the first 18 months of life. *American Journal of Epidemiology* 2004; 160:(3)217-23.
194. Rothenbacher D, Weyermann M, Beermann C *et al.* Breastfeeding, soluble CD14 concentration in breast milk and risk of atopic dermatitis and asthma in early childhood: birth cohort study. *Clinical and Experimental Allergy* 2005; 35:(8)1014-21.
195. Weiland SK, Husing A, Strachan DP *et al.* Climate and the prevalence of symptoms of asthma, allergic rhinitis, and atopic eczema in children. *Occupational and Environmental Medicine* 2004; 61:(7)609-15.
196. Saarinen KM, Pelkonen AS, Makela MJ *et al.* Clinical course and prognosis of cow's milk allergy are dependent on milk-specific IgE status. *Journal of Allergy and Clinical Immunology* 2005; 116:(4)869-75.
197. De MG, Janssen NAH, and Brunekreef B. Early childhood environment related to microbial exposure and the occurrence of atopic disease at school age. *Allergy* 2005; 60:(5)619-25.
198. Bolte G, Bischof W, Borte M *et al.* Early endotoxin exposure and atopy development in infants: results of a birth cohort study. *Clinical and Experimental Allergy* 2003; 33:(6)770-6.
199. Reitamo S, Visa K, Kahonen K *et al.* Eczematous reactions in atopic patients caused by epicutaneous testing with inhalant allergens. *British Journal of Dermatology* 1986; 114:(3)303-9.
200. Wananukul S, Huiprasert P, and Pongprasit P. Eczematous skin reaction from patch testing with aeroallergens in atopic children with and without atopic dermatitis. *Pediatric Dermatology* 1993; 10:(3)209-13.
201. Schoetzau A, Filipiak-Pittroff B, Franke K *et al.* Effect of exclusive breast-feeding and early solid food avoidance on the incidence of atopic dermatitis in high-risk infants at 1 year of age. *Pediatric Allergy and Immunology* 2002; 13:(4)234-42.
202. Dunlop AL, Reichrtova E, Palcovicova L *et al.* Environmental and dietary risk factors for infantile atopic eczema among a Slovak birth cohort. *Pediatric Allergy and Immunology* 2006; 17:(2)103-11.
203. Burr ML, Miskelly FG, Butland BK *et al.* Environmental factors and symptoms in infants at high risk of allergy.[see comment]. *Journal of Epidemiology and Community Health* 1989; 43:(2)125-32.
204. Ring J, Eberlein-Koenig B, and Behrendt H. Environmental pollution and allergy. [48 refs]. *Annals of Allergy, Asthma, and Immunology* 2001; 87:(6 Suppl 3)2-6.
205. Sladden MJ, Dure-Smith B, Berth-Jones J *et al.* Ethnic differences in the pattern of skin disease seen in a dermatology department—atopic dermatitis is more common among Asian referrals in Leicestershire. *Clinical and Experimental Dermatology* 1991; 16:(5)348-9.
206. Huang JL, Chen CC, Kuo ML *et al.* Exposure to a high concentration of mite allergen in early infancy is a risk factor for developing atopic dermatitis: a 3-year follow-up study. *Pediatric Allergy and Immunology* 2001; 12:(1)11-6.
207. Kihlstrom A, Lilja G, Pershagen G *et al.* Exposure to birch pollen in infancy and development of atopic disease in childhood. *Journal of Allergy and Clinical Immunology* 2002; 110:(1)78-84.
208. Sebok B, Schneider I, Harangi F *et al.* Familiar and environmental factors influencing atopic dermatitis in the childhood. *Journal of the European Academy of Dermatology and Venereology* 2006; 20:(4)418-22.
209. Hill DJ and Hosking CS. Food allergy and atopic dermatitis in infancy: An epidemiologic study. *Pediatric Allergy and Immunology* 2004; 15:(5)421-7.
210. Angioni AM, Fanciulli G, and Corchia C. Frequency of and risk factors for allergy in primary school children: results of a population survey. *Paediatric and Perinatal Epidemiology* 1989; 3:(3)248-55.
211. Almqvist C, Egmar AC, van Hage-Hamsten M *et al.* Heredity, pet ownership, and confounding control in a population-based birth cohort. *Journal of Allergy and Clinical Immunology* 2003; 111:(4)800-6.
212. Lange J, Ngoumou G, Berkenheide S *et al.* High interleukin-13 production by phytohaemagglutinin- and Der p 1-stimulated cord blood mononuclear cells is associated with the subsequent development of atopic dermatitis at the age of 3 years. *Clinical and Experimental Allergy* 2003; 33:(11)1537-43.
213. Meglio P, Farinella F, Trogolo E *et al.* Immediate reactions following challenge-tests in children with atopic dermatitis. *Allergie et Immunologie* 1988; 20:(2)57-62.
214. Mitchell EB, Crow J, Williams G *et al.* Increase in skin mast cells following chronic house dust mite exposure. *British Journal of Dermatology* 1986; 114:(1)65-73.
215. Magnusson CG. Maternal smoking influences cord serum IgE and IgD levels and increases the risk for subsequent infant allergy. *Journal of Allergy and Clinical Immunology* 1986; 78:(5 Pt 1)898-904.
216. Hagendorens MM, Bridts CH, Lauwers K *et al.* Perinatal risk factors for sensitization, atopic dermatitis and wheezing during the first year of life (PIPO study). *Clinical and Experimental Allergy* 2005; 35:(6)733-40.
217. Xu B, Jarvelin MR, and Pekkanen J. Prenatal factors and occurrence of rhinitis and eczema among offspring. *Allergy* 1999; 54:(8)829-36.
218. Leung R, Ho A, Chan J *et al.* Prevalence of latex allergy in hospital staff in Hong Kong. *Clinical and Experimental Allergy* 1997; 27:(2)167-74.
219. Saarinen UM, Kajosaari M, Backman A *et al.* Prolonged breast-feeding as prophylaxis for atopic disease. *Lancet* 1979; 2:(8135)163-6.
220. Hammar H. Provocation with cow's milk and cereals in atopic dermatitis. *Acta Dermato-Venereologica* 1977; 57:(2)159-63.
221. Kerkhof M, Koopman LP, Van Strient RT *et al.* Risk factors for atopic dermatitis in infants at high risk of allergy: The PIAMA study. *Clinical and Experimental Allergy* 2003; 33:(10)1336-41.
222. Vicencio JCA and Gonzalez-Andaya AM. Sensitization to food and aeroallergens in children with atopic dermatitis seen at the University of Santo Tomas Hospital Allergy Clinic. *Santo Tomas Journal of Medicine* 2005; 52:(3)92-100.
223. Han YS, Park HY, Ahn KM *et al.* Short-term effect of partially hydrolyzed formula on the prevention of development of atopic dermatitis in infants at high risk. *Journal of Korean Medical Science* 2003; 18:(4)547-51.
224. Adler UC. The influence of childhood infections and vaccination on the development of atopy: A systematic review of the direct epidemiological evidence. *Homeopathy* 2005; 94:(3)182-95.
225. Patrizi A, Guerrini V, Ricci G *et al.* The natural history of sensitizations to food and aeroallergens in atopic dermatitis: a 4-year follow-Up. *Pediatric Dermatology* 2000; 17:(4)261-5.
226. Poikonen S, Puumalainen TJ, Kautiainen H *et al.* Turnip rape and oilseed rape are new potential food allergens in children with atopic dermatitis. *Allergy* 2006; 61:(1)124-7.
227. Worldwide variation in prevalence of symptoms of asthma, allergic rhinoconjunctivitis, and atopic eczema: ISAAC. The International Study of Asthma and Allergies in Childhood (ISAAC) Steering Committee. *Lancet* 1998; 351:(9111)1225-32.
228. Eigenmann PA, Sicherer SH, Borkowski TA *et al.* Prevalence of IgE-mediated food allergy among children with atopic dermatitis. *Pediatrics* 1998; 101:(8)E8-E13.
229. Ong PY, Ohtake T, Brandt C *et al.* Endogenous antimicrobial peptides and skin infections in atopic dermatitis.[see comment]. *New England Journal of Medicine* 2002; 347:(15)1151-60.

230. Wuthrich B and Schmid-Grendelmeier P. Natural course of AEDS. *Allergy* 2002; 57:(3)267-8.
231. Determinants of total and specific IgE in infants with atopic dermatitis. ETAC Study Group. Early Treatment of the Atopic Child. *Pediatric Allergy and Immunology* 1997; 8:(4)177-84.
232. Darsow U, Vieluf D, and Ring J. Evaluating the relevance of aeroallergen sensitization in atopic eczema with the atopy patch test: a randomized, double-blind multicenter study. Atopy Patch Test Study Group. *Journal of the American Academy of Dermatology* 1999; 40:(2 Pt 1)187-93.
233. Laske N, Bunikowski R, and Niggemann B. Extraordinarily high serum IgE levels and consequences for atopic phenotypes. *Annals of Allergy, Asthma, and Immunology* 2003; 91:(2)202-4.
234. Ohshima Y, Yamada A, Hiraoka M et al. Early sensitization to house dust mite is a major risk factor for subsequent development of bronchial asthma in Japanese infants with atopic dermatitis: results of a 4-year followup study. *Annals of Allergy, Asthma, and Immunology* 2002; 89:(3)265-70.
235. Sampson HA. The immunopathogenic role of food hypersensitivity in atopic dermatitis. *Acta Dermato-Venereologica* 1992; Supplementum. 176:34-7.
236. Wistokat-Wulfing A, Schmidt P, Darsow U et al. Atopy patch test reactions are associated with T lymphocyte-mediated allergen-specific immune responses in atopic dermatitis. *Clinical and Experimental Allergy* 1999; 29:(4)513-21.
237. Adinoff AD, Tellez P, and Clark RA. Atopic dermatitis and aeroallergen contact sensitivity. *Journal of Allergy and Clinical Immunology* 1988; 81:(4)736-42.
238. Beck LA and Leung DY. Allergen sensitization through the skin induces systemic allergic responses. [41 refs]. *Journal of Allergy and Clinical Immunology* 2000; 106:(5 Suppl)S258-S263.
239. Hill DJ, Cameron DJ, Francis DE et al. Challenge confirmation of late-onset reactions to extensively hydrolyzed formulas in infants with multiple food protein intolerance. *Journal of Allergy and Clinical Immunology* 1995; 96:(3)386-94.
240. Hill DJ, Heine RG, Cameron DJ et al. The natural history of intolerance to soy and extensively hydrolyzed formula in infants with multiple food protein intolerance. *Journal of Pediatrics* 1999; 135:(1)118-21.
241. Kulig M, Bergmann R, Klettke U et al. Natural course of sensitization to food and inhalant allergens during the first 6 years of life. *Journal of Allergy and Clinical Immunology* 1999; 103:(6)1173-9.
242. Sampson HA. Utility of food-specific IgE concentrations in predicting symptomatic food allergy. *Journal of Allergy and Clinical Immunology* 2001; 107:(5)891-6.
243. David TJ, Wells FE, Sharpe TC et al. Serum levels of trace metals in children with atopic eczema. *British Journal of Dermatology* 1990; 122:(4)485-9.
244. Leung DY, Boguniewicz M, Howell MD et al. New insights into atopic dermatitis. *Journal of Clinical Investigation* 2004; 113:(5)651-7.
245. Leung DY and Bieber T. Atopic dermatitis. *Lancet* 2003; 361:(9352)151-60.
246. Casimir GJ, Duchateau J, Gossart B et al. Atopic dermatitis: role of food and house dust mite allergens. *Pediatrics* 1993; 92:(2)252-6.
247. Arshad SH, Matthews S, Gant C et al. Effect of allergen avoidance on development of allergic disorders in infancy. *Lancet* 1992; 339:(8808)1493-7.
248. Koopman LP, van Strien RT, Kerkhof M et al. Placebo-controlled trial of house dust mite-impermeable mattress covers: effect on symptoms in early childhood.[see comment]. *American Journal of Respiratory and Critical Care Medicine* 2002; 166:(3)307-13.
249. Colloff MJ, Lever RS, and McSharry C. A controlled trial of house dust mite eradication using natamycin in homes of patients with atopic dermatitis: effect on clinical status and mite populations.[see comment]. *British Journal of Dermatology* 1989; 121:(2)199-208.
250. Nishioka K, Yasueda H, and Saito H. Preventive effect of bedding encasement with microfine fibers on mite sensitization. *Journal of Allergy and Clinical Immunology* 1998; 101:(1 Pt 1)28-32.
251. Zeiger RS and Heller S. The development and prediction of atopy in high-risk children: follow-up at age seven years in a prospective randomized study of combined maternal and infant food allergen avoidance. *Journal of Allergy and Clinical Immunology* 1995; 95:(6)1179-90.
252. Langan SM, Thomas KS, and Williams HC. What Is Meant by a "Flare" in Atopic Dermatitis? *Archives of Dermatology* 2006; 142:(9)1190-6.
253. Adachi K and Aoki T. IgE antibody to sweat in atopic dermatitis. *Acta Dermato-Venereologica* 1989; Supplementum. 144:83-7.
254. Brasch J and Geier J. Patch test results in schoolchildren. Results from the Information Network of Departments of Dermatology (IVDK) and the German Contact Dermatitis Research Group (DKG)[see comment]. *Contact Dermatitis* 1997; 37:(6)286-93.
255. Castelain M, Birnbaum J, Castelain PY et al. Patch test reactions to mite antigens: a GERDA multicentre study. Groupe d'Etudes et de Recherches en Dermato-Allergie. *Contact Dermatitis* 1993; 29:(5)246-50.
256. Copenhagen CC, Schwartz RH, Halterman JS et al. IgE-mediated cow's milk allergy: skin prick test subtypes and clinical phenotypes using cow's milk hydrolysate infant formulas. *Pediatric Asthma, Allergy and Immunology* 2003; 16:(2)67-76.
257. Czarnicka-Operacz M, Bator-Wegner M, and Silny W. Atopy patch test reaction to airborne allergens in the diagnosis of atopic dermatitis. *Acta Dermatovenerologica Croatica* 2005; 13:(1)3-16.
258. Darsow U, Vieluf D, and Ring J. The atopy patch test: an increased rate of reactivity in patients who have an air-exposed pattern of atopic eczema. *British Journal of Dermatology* 1996; 135:(2)182-6.
259. Darsow U, Vieluf D, Berg B et al. Dose response study of atopy patch test in children with atopic eczema. *Pediatric Asthma Allergy and Immunology* 1999; 13:(3)115-22.
260. Darsow U, Laifaoui J, Kerschenlohr K et al. The prevalence of positive reactions in the atopy patch test with aeroallergens and food allergens in subjects with atopic eczema: a European multicenter study. *Allergy* 2004; 59:(12)1318-25.
261. De SM. Allergies and skin testing: a Nairobi experience. *East African Medical Journal* 1994; 71:(7)473-5.
262. Fuiano N and Incorvaia C. Comparison of skin prick test and atopy patch test with dust mite extracts in patients with respiratory symptoms or atopic eczema dermatitis syndrome. *Allergy* 2003; 58:(8)828.
263. Gaddoni G, Baldassari L, and Zucchini A. A new patch test preparation of dust mites for atopic dermatitis. *Contact Dermatitis* 1994; 31:(2)132-3.
264. Gavani UD, Hyde JS, and Moore BS. Hypersensitivity to milk and egg white. Skin tests, rast results and clinical intolerance. *Annals of Allergy* 1978; 40:(5)314-8.
265. Guler N, Kierlerli E, Tamay Z et al. Atopy patch testing in children with asthma and rhinitis symptoms allergic to house dust mite. *Pediatric Allergy and Immunology* 2006; 17:(5)346-50.
266. Halken S, Host A, Daugbjerg PS et al. Allergy testing of children. *Ugeskrift for Laeger* 2005; 167:(6)642-7.
267. Hannaway PJ and Hyde JS. Scratch and intradermal skin testing: a comparative study in 250 atopic children. *Annals of Allergy* 1970; 28:(9)413-9.
268. Hannuksela M. Diagnosis of dermatologic food allergy. *Annals of Allergy* 1987; 59:(5 Pt 2)153-6.
269. Hansen TK, Host A, and Bindslev-Jensen C. An evaluation of the diagnostic value of different skin tests with egg in clinically egg-allergic children having atopic dermatitis. *Pediatric Allergy and Immunology* 2004; 15:(5)428-34.
270. Heine RG, Laske N, and Hill DJ. The diagnosis and management of egg allergy. *Current Allergy and Asthma Reports* 2006; 6:(2)145-52.

271. Hill DJ, Duke AM, Hosking CS et al. Clinical manifestations of cows' milk allergy in childhood. II. The diagnostic value of skin tests and RAST. *Clinical Allergy* 1988; 18:(5)481-90.
272. Imayama S, Hashizume T, Miyahara H et al. Combination of patch test and IgE for dust mite antigens differentiates 130 patients with atopic dermatitis into four groups. *Journal of the American Academy of Dermatology* 1992; 27:(4)531-8.
273. James JM and Simons FE. Allergy skin testing: comparison of conventional and new techniques. *Canadian Medical Association Journal* 1979; 120:(3)330-2.
274. Kajosaari M and Saarinen UM. Evaluation of laboratory tests in childhood allergy. Total serum IgE, blood eosinophilia and eosinophil and mast cells in nasal mucosa of 178 children aged 3 years. *Allergy* 1981; 36:(5)329-35.
275. Kalach N, Soulaines P, Guerin S et al. Time course of total and food specific IgE antibodies (Rast Fx5) in the developing allergic child. *Allergie et Immunologie* 2005; 37:(7)257-61.
276. Karakoc GB, Altintas DU, Yilmaz M et al. Prick Skin Test Results in Children Less Than Three Years-Old. *Annals of Medical Sciences* 2003; 12:(3)85-8.
277. Kekki OM, Turjanmaa K, and Isolauri E. Differences in skin-prick and patch-test reactivity are related to the heterogeneity of atopic eczema in infants. *Allergy* 1997; 52:(7)755-9.
278. Keskin O, Tuncer A, Adalioglu G et al. Evaluation of the utility of atopy patch testing, skin prick testing, and total and specific IgE assays in the diagnosis of cow's milk allergy. *Annals of Allergy, Asthma, and Immunology* 2005; 94:(5)553-60.
279. Klas PA, Corey G, Storrs FJ et al. Allergic and irritant patch test reactions and atopic disease. *Contact Dermatitis* 1996; 34:(2)121-4.
280. Kuljanac I, Knezevic E, and Cvitanovic H. Epicutaneous patch test reactions in atopic dermatitis patients. *Acta Dermatovenerologica Croatica* 2005; 13:(4)225-7.
281. Kuwabara N, Kondo N, Fukutomi O et al. Evaluation of patch test with dimethylsulfoxide in association with lymphocyte proliferation in food-sensitive atopic dermatitis. *Pediatric Asthma Allergy and Immunology* 1993; 7:(3)173-8.
282. Langeland T, Braathen LB, and Borch M. Studies of atopic patch tests. *Acta Dermato-Venereologica* 1989; Supplementum. 144:105-9.
283. Lee S, Noh GW, and Lee KY. Clinical application of histamine prick test for food challenge in atopic dermatitis. *Journal of Korean Medical Science* 2001; 16:(3)276-82.
284. Leupold W and Hirsch T. Specific problems of allergy diagnosis in children. *Allergologie* 1997; 20:(11)571-6.
285. Marks Jr JG, Belsito DV, DeLeo VA et al. North American Contact Dermatitis Group patch-test results, 1998 to 2000. *American Journal of Contact Dermatitis* 2003; 14:(2)59-62.
286. Meglio P, Milita O, and Businco L. Patch test response to house dust mites is positive in children with atopic dermatitis and in their parents. [33 refs]. *Journal of Investigational Allergology and Clinical Immunology* 1996; 6:(3)190-5.
287. Moneret-Vautrin DA, Fremont S, Kanny G et al. The use of two multitest f5 and f10 in the diagnosis of food allergy in children: Regarding 42 cases. *Allergie et Immunologie* 1995; 27:(1)2-6.
288. Motolese A, Manzini BM, and Donini M. Patch testing in infants. *American Journal of Contact Dermatitis* 1995; 6:(3)153-6.
289. Niinimäki A, Hannuksela M, and Makinen-Kiljunen S. Skin prick tests and in vitro immunoassays with native spices and spice extracts. *Annals of Allergy, Asthma, and Immunology* 1995; 75:(3)280-6.
290. Oranje AP, Van GD, Mulder PG et al. Food-induced contact urticaria syndrome (CUS) in atopic dermatitis: reproducibility of repeated and duplicate testing with a skin provocation test, the skin application food test (SAFT). *Contact Dermatitis* 1994; 31:(5)314-8.
291. Osterballe M, Andersen KE, and Bindslev-Jensen C. The diagnostic accuracy of the atopy patch test in diagnosing hypersensitivity to cow's milk and hen's egg in unselected children with and without atopic dermatitis. *Journal of the American Academy of Dermatology* 2004; 51:(4)556-62.
292. Pambor M, Kruger G, and Winkler S. Results of patch testing in children. *Contact Dermatitis* 1992; 27:(5)326-8.
293. Pigatto PD, Bigardi AS, Valsecchi RH et al. Mite patch testing in atopic eczema: a search for correct concentration. *Australasian Journal of Dermatology* 1997; 38:(4)231-2.
294. Plebani A, Monafó V, Cespa M et al. Different role of secretory IgA in the pathogenesis of RAST-positive and RAST-negative atopic dermatitis. *Clinical Allergy* 1982; 12:(4)403-7.
295. Prah P, Krasilnikof F, Stahl SP et al. Basophil histamine release in children with adverse reactions to cow milk. Comparison with RAST and skin prick test. *Allergy* 1988; 43:(6)442-8.
296. Rasanen L, Lehto M, and Reunala T. Diagnostic value of skin and laboratory tests in cow's milk allergy/intolerance. *Clinical and Experimental Allergy* 1992; 22:(3)385-90.
297. Rokaite R, Labanauskas L, and Vaideliene L. Role of the skin patch test in diagnosing food allergy in children with atopic dermatitis. *Medicina (Kaunas, Lithuania)* 2004; 40:(11)1081-7.
298. Roul S, Ducombs G, and Taieb A. Usefulness of the European standard series for patch testing in children. A 3-year single-centre study of 337 patients. *Contact Dermatitis* 1999; 40:(5)232-5.
299. Rudzki E, Grzywa Z, and Rebandel P. Patch testing in children. *Contact Dermatitis* 1987; 17:(2)117-8.
300. Rudzki E and Litewska D. RAST and PRIST in children with atopic dermatitis. *Dermatologica* 1990; 180:(2)82-5.
301. Sasaki K, Sugiura H, and Uehara M. Patch test reactions to the acetone-soluble fraction of human dander in atopic dermatitis. *Dermatology* 1994; 189:(1)58-61.
302. Seidenari S, Manzini BM, and Danese P. Patch testing with pollens of Gramineae in patients with atopic dermatitis and mucosal atopy. *Contact Dermatitis* 1992; 27:(2)125-6.
303. Seidenari S, Manzini BM, Danese P et al. Positive patch tests to whole mite culture and purified mite extracts in patients with atopic dermatitis, asthma, and rhinitis. *Annals of Allergy* 1992; 69:(3)201-6.
304. Seidenari S, Giusti F, Pellacani G et al. Frequency and intensity of responses to mite patch tests are lower in nonatopic subjects with respect to patients with atopic dermatitis. *Allergy* 2003; 58:(5)426-9.
305. Shah M, Lewis FM, and Gawkrödger DJ. Patch testing in children and adolescents: five years' experience and follow-up. *Journal of the American Academy of Dermatology* 1997; 37:(6)964-8.
306. Skassa-Brociek W, Manderscheid JC, Michel FB et al. Skin test reactivity to histamine from infancy to old age. *Journal of Allergy and Clinical Immunology* 1987; 80:(5)711-6.
307. Smith JM. Skin tests and atopic allergy in children. *Clinical Allergy* 1973; 3:(3)269-75.
308. Stables GI, Forsyth A, and Lever RS. Patch testing in children. *Contact Dermatitis* 1996; 34:(5)341-4.
309. Stasiak-Barmuta A, Dabrowska I, Piotrowska T et al. Study on specific immunotherapy with the aid of 3M Diagnostic Systems' tests. *Pneumonologia i Alergologia Polska* 1992; 60 Suppl 1:53-6.

310. Sumpaico M, Kuno-Sakai H, Asano M *et al.* Correlation of the modified scratch test with the radioallergosorbent test (RAST) in atopic children. *Tokai Journal of Experimental and Clinical Medicine* 1985; 10:(1)61-4.
311. Taieb A, Debons M, and Maleville J. The predictive value of screening tests for food allergy in infants with atopic dermatitis. *Acta Dermato-Venereologica* 1992; Supplementum:(176)141.
312. Takahashi I, Akiyama T, Yamaura H *et al.* Evaluation of RAST in atopic dermatitis. *Journal of Dermatology* 1977; 4:(6)217-21.
313. Tanaka Y, Tanaka M, Anan S *et al.* Immunohistochemical studies on dust mite antigen in positive reaction site of patch test. *Acta Dermato-Venereologica* 1989; Supplementum. 144:93-6.
314. Turjanmaa K. 'Atopy patch tests' in the diagnosis of delayed food hypersensitivity. *Allergie et Immunologie* 2002; 34:(3)95-7.
315. Uehara M, Takahashi C, and Ofuji S. Pustular patch test reactions in atopic dermatitis. *Archives of Dermatology* 1975; 111:(9)1154-7.
316. Uehara M and Ofuji S. Patch test reactions to human dander in atopic dermatitis. *Archives of Dermatology* 1976; 112:(7)951-4.
317. van Asperen PP, Kemp AS, and Mellis CM. Skin test reactivity and clinical allergen sensitivity in infancy. *Journal of Allergy and Clinical Immunology* 1984; 73:(3)381-6.
318. Vender RB. The utility of patch testing children with atopic dermatitis. [30 refs]. *Skin Therapy Letter* 2002; 7:(6)4-6.
319. Walsh WE. Food allergy in atopic dermatitis. Diagnosis of food sensitivity using patch tests. *Minnesota Medicine* 1975; 58:(4)310-2.
320. Oosting AJ, de Bruin-Weller MS, and Terreehorst. Effect of mattress encasings on atopic dermatitis outcome measures in a double-blind, placebo-controlled study: the Dutch mite avoidance study. *The Journal of allergy and clinical immunology* 2002; 110:(3)500-6.
321. Kramer MS. Maternal dietary antigen avoidance during pregnancy or lactation, or both, for preventing or treating atopic disease in the child. *Cochrane Database of Systematic Reviews* 2007;(1).
322. Devenney I. A new model for low-dose food challenge in children with allergy to milk or egg. *Acta Paediatrica* 2006; 95:(9)1133-9.
323. Tikkanen S, Kokkonen J, Junnti H *et al.* Status of children with cow's milk allergy in infancy by 10 years of age. *Acta Paediatrica* 2000; 89:(10)1174-80.
324. von BA, Koletzko S, Grubl A *et al.* The effect of hydrolyzed cow's milk formula for allergy prevention in the first year of life: the German Infant Nutritional Intervention Study, a randomized double-blind trial.[see comment]. *Journal of Allergy and Clinical Immunology* 2003; 111:(3)533-40.
325. Oranje AP, Aarsen RS, Mulder PG *et al.* Food immediate-contact hypersensitivity (FICH) and elimination diet in young children with atopic dermatitis. Preliminary results in 107 children. *Acta Dermato-Venereologica* 1992; Supplementum. 176:41-4.
326. Bindslev-Jensen C. Standardization of double-blind, placebo-controlled food challenges. *Allergy* 2001; 56 Suppl 67:75-7.
327. Leinhas JL, McCaskill CC, and Sampson HA. Food allergy challenges: guidelines and implications. *Journal of the American Dietetic Association* 1987; 87:(5)604-8.
328. Probiotics and eczema prevention: a randomized study. *Nutrition and the M.D.* 2004; 30:(8)5-6.
329. Adachi A, Horikawa T, Takashima T *et al.* Potential efficacy of low metal diets and dental metal elimination in the management of atopic dermatitis: An open clinical study. *Journal of Dermatology* 1997; 24:(1)12-9.
330. Amlot PL, Kemeny DM, Zachary C *et al.* Oral allergy syndrome (OAS): symptoms of IgE-mediated hypersensitivity to foods. *Clinical Allergy* 1987; 17:(1)33-42.
331. Businco L and Cantani A. Food allergy in children: diagnosis and treatment with sodium cromoglycate. [38 refs]. *Allergologia et Immunopathologia* 1990; 18:(6)339-48.
332. Cant A, Marsden RA, and Kilshaw PJ. Egg and cows' milk hypersensitivity in exclusively breast fed infants with eczema, and detection of egg protein in breast milk. *British Medical Journal* 1985; 291:(6500)932-5.
333. Church JA, Kleban DG, and Bellanti JA. Serum immunoglobulin E concentrations and radioallergosorbent tests in children with atopic dermatitis. *Pediatric Research* 1976; 10:(2)97-9.
334. Crespo JF, Pascual C, Ferrer A *et al.* Egg white-specific IgE level as a tolerance marker in the follow up of egg allergy. *Allergy Proceedings* 1994; 15:(2)73-6.
335. Docena GH, Fernandez R, Chirido FG *et al.* Identification of casein as the major allergenic and antigenic protein of cow's milk. *Allergy* 1996; 51:(6)412-6.
336. Eigenmann PA. Are specific immunoglobulin E titres reliable for prediction of food allergy?[comment][erratum appears in Clin Exp Allergy. 2005 Jul;35(7):979]. *Clinical and Experimental Allergy* 2005; 35:(3)247-9.
337. el RA, Peters SM, Harris N *et al.* Diagnostic value of IgG4 measurements in patients with food allergy. *Annals of Allergy* 1989; 62:(2)94-9.
338. Ellman LK, Chatchatee P, Sicherer SH *et al.* Food hypersensitivity in two groups of children and young adults with atopic dermatitis evaluated a decade apart. *Pediatric Allergy and Immunology* 2002; 13:(4)295-8.
339. Hofman T and Hanasz-Jarzynska T. Food allergens as causative factors of respiratory, skin and gastrointestinal allergy confirmed by skin prick test and specific IgE and IgG4 FAST in children. *Pneumonologia i Alergologia Polska* 1992; 60 Suppl 1:16-9.
340. Lin HY, Shyur SD, Fu JL *et al.* Whey and casein specific IgE and the cow's milk challenge test for atopic children. *Chung-Hua Min Kuo Hsiao Erh Ko i Hsueh Hui Tsa Chih* 1998; 39:(2)99-102.
341. Moisan V, Bremont F, Abbal M *et al.* Value of the RAST Fx5 in atopic eczema and food allergies in the child. *Revue Francaise d Allergologie et d Immunologie Clinique* 1990; 30:(4)233-6.
342. Nickel R, Kulig M, Forster J *et al.* Sensitization to hen's egg at the age of twelve months is predictive for allergic sensitization to common indoor and outdoor allergens at the age of three years. *Journal of Allergy and Clinical Immunology* 1997; 99:(5)613-7.
343. Oranje AP, Aarsen RS, Mulder PG *et al.* Immediate contact reactions to cow's milk and egg in atopic children. *Acta Dermato-Venereologica* 1991; 71:(3)263-6.
344. Pourpak Z, Farhoudi A, Mahmoudi M *et al.* The role of cow milk allergy in increasing the severity of atopic dermatitis. *Immunological Investigations* 2004; 33:(1)69-79.
345. Rance F and Dutau G. Labial food challenge in children with food allergy.[see comment]. *Pediatric Allergy and Immunology* 1997; 8:(1)41-4.
346. Rance F, Kanny G, Dutau G *et al.* Food hypersensitivity in children: clinical aspects and distribution of allergens. *Pediatric Allergy and Immunology* 1999; 10:(1)33-8.
347. Rance F, Brondeau V, and Abbal M. Use of prick-tests in the screening of immediate allergy to protein: 16 cases. *Allergie et Immunologie* 2002; 34:(3)71-6.
348. Roehr CC, Edenharter G, Reimann S *et al.* Food allergy and non-allergic food hypersensitivity in children and adolescents. *Clinical and Experimental Allergy* 2004; 34:(10)1534-41.
349. Rowlands D, Tofte SJ, and Hanifin JM. Does food allergy cause atopic dermatitis? Food challenge testing to dissociate eczematous from immediate reactions. *Dermatologic Therapy* 2006; 19:(2)97-103.

350. Sampson HA and Jolie PL. Increased plasma histamine concentrations after food challenges in children with atopic dermatitis. *New England Journal of Medicine* 1984; 311:(6)372-6.
351. Sampson HA. Immediate hypersensitivity reactions to foods: blinded food challenges in children with atopic dermatitis. *Annals of Allergy* 1986; 57:(3)209-12.
352. Sicherer SH, Morrow EH, and Sampson HA. Dose-response in double-blind, placebo-controlled oral food challenges in children with atopic dermatitis. *Journal of Allergy and Clinical Immunology* 2000; 105:(3)582-6.
353. Szajewska H and Mrokowicz JZ. Probiotics in the treatment and prevention of food allergy - Systematic review. *Pediatrica Wspolczesna* 2002; 4:(1)79-83.
354. Szajewska H, Mrukowicz JZ, Stoinska B et al. Extensively and partially hydrolysed preterm formulas in the prevention of allergic diseases in preterm infants: a randomized, double-blind trial. *Acta Paediatrica* 2004; 93:(9)1159-65.
355. Tsai YT, Chou CC, and Hsieh KH. The effect of hypoallergenic formula on the occurrence of allergic diseases in high risk infants. *Chung-Hua Min Kuo Hsiao Erh Ko i Hsueh Hui Tsa Chih* 1991; 32:(3)137-44.
356. Veien NK, Hattel T, Justesen O et al. Dermatitis induced or aggravated by selected foodstuffs. *Acta Dermato-Venereologica* 1987; 67:(2)133-8.
357. Wang IJ, Lin YT, Yang YH et al. Correlation between age and allergens in pediatric atopic dermatitis. *Annals of Allergy, Asthma, and Immunology* 2004; 93:(4)334-8.
358. Yamamoto A, Tanabe S, Kojima T et al. Hypoallergenic cupcake is a useful product for wheat-sensitive allergic patients. *Journal of Applied Research* 2004; 4:(3)518-23.
359. Flinterman AE, Knulst AC, and Meijer. Acute allergic reactions in children with AEDS after prolonged cow's milk elimination diets. *Allergy* 2006; 61:(3)370-4.
360. Arshad SH, Stevens M, and Hide DW. The effect of genetic and environmental factors on the prevalence of allergic disorders at the age of two years. *Clinical and Experimental Allergy* 1993; 23:(6)504-11.
361. Atherton DJ, Sewell M, Soothill JF et al. A double-blind controlled crossover trial of an antigen-avoidance diet in atopic eczema. *Lancet* 1978; 1:(8061)401-3.
362. Baehler P, Chad Z, Gurbindo C et al. Distinct patterns of cow's milk allergy in infancy defined by prolonged, two-stage double-blind, placebo-controlled food challenges.[see comment]. *Clinical and Experimental Allergy* 1996; 26:(3)254-61.
363. Beck HI and Hagdrup HK. Atopic dermatitis, house dust mite allergy and month of birth. *Acta Dermato-Venereologica* 1987; 67:(5)448-51.
364. Benn CS, Melbye M, Wohlfahrt J et al. Cohort study of sibling effect, infectious diseases, and risk of atopic dermatitis during first 18 months of life. *British Medical Journal* 2004; 328:(7450)1223-6.
365. Bergmann RL, Diepgen TL, Kuss O et al. Breastfeeding duration is a risk factor for atopic eczema. *Clinical and Experimental Allergy* 2002; 32:(2)205-9.
366. Bohme M, Wickman M, Lennart NS et al. Family history and risk of atopic dermatitis in children up to 4 years. *Clinical and Experimental Allergy* 2003; 33:(9)1226-31.
367. Breuer K, Heratizadeh A, Wulf A et al. Late eczematous reactions to food in children with atopic dermatitis. *Clinical and Experimental Allergy* 2004; 34:(5)817-24.
368. Devlin J, David TJ, and Stanton RH. Elemental diet for refractory atopic eczema. *Archives of Disease in Childhood* 1991; 66:(1)93-9.
369. Ehlers I, Worm M, Sterry W et al. Sugar is not an aggravating factor in atopic dermatitis. *Acta Dermato-Venereologica* 2001; 81:(4)282-4.
370. Fergusson DM, Crane J, Beasley R et al. Perinatal factors and atopic disease in childhood.[see comment]. *Clinical and Experimental Allergy* 1997; 27:(12)1394-401.
371. Fergusson DM and Horwood LJ. Parental smoking and respiratory illness during early childhood: a six-year longitudinal study. *Pediatric Pulmonology* 1985; 1:(2)99-106.
372. Fergusson DM, Horwood LJ, and Shannon FT. Risk factors in childhood eczema. *Journal of Epidemiology and Community Health* 1982; 36:(2)118-22.
373. Graif Y, Garty B-Z, Livne I et al. Prevalence and risk factors for allergic rhinitis and atopic eczema among schoolchildren in Israel: Results from a national study. *Annals of Allergy, Asthma, and Immunology* 2004; 92:(2)245-9.
374. Haileamlak A, Dagoye D, Williams H et al. Early life risk factors for atopic dermatitis in Ethiopian children. *Journal of Allergy and Clinical Immunology* 2005; 115:(2)370-6.
375. Harving H, Korsgaard J, Dahl R et al. House dust mites and atopic dermatitis. A case-control study on the significance of house dust mites as etiologic allergens in atopic dermatitis. *Annals of Allergy* 1990; 65:(1)25-31.
376. Hill DJ, Hosking CS, and Heine RG. Clinical spectrum of food allergy in children in Australia and South-East Asia: Identification and targets for treatment. *Annals of Medicine* 1999; 31:(4)272-81.
377. Hill DJ, Sporik R, Thorburn J et al. The association of atopic dermatitis in infancy with immunoglobulin E food sensitization. *Journal of Pediatrics* 2000; 137:(4)475-9.
378. Kawada T. Risk factors and prevalence of asthma or atopic dermatitis in young children by a questionnaire survey. *Journal of Nippon Medical School = Nihon Ika Daigaku Zasshi* 2004; 71:(3)167-71.
379. Kihlstrom A, Lilja G, Pershagen G et al. Exposure to high doses of birch pollen during pregnancy, and risk of sensitization and atopic disease in the child. *Allergy* 2003; 58:(9)871-7.
380. Kikuchi K, Kobayashi H, O'goshi K-I et al. Impairment of skin barrier function is not inherent in atopic dermatitis patients: A prospective study conducted in newborns. *Pediatric Dermatology* 2006; 23:(2)109-13.
381. Kilpi T, Kero J, Jokinen J et al. Common respiratory infections early in life may reduce the risk of atopic dermatitis. *Clinical Infectious Diseases* 2002; 34:(5)620-6.
382. Kjellman B and Hattevig G. Allergy in early and late onset of atopic dermatitis. *Acta Paediatrica* 1994; 83:(2)229-31.
383. Kurosaka F, Nakatani Y, Terada T et al. Current cat ownership may be associated with the lower prevalence of atopic dermatitis, allergic rhinitis, and Japanese cedar pollinosis in schoolchildren in Himeji, Japan. *Pediatric Allergy and Immunology* 2006; 17:(1)22-8.
384. Kurukulaaratchy R, Fenn M, Matthews S et al. The prevalence, characteristics of and early life risk factors for eczema in 10-year-old children. *Pediatric Allergy and Immunology* 2003; 14:(3)178-83.
385. Laubereau B, Brockow I, Zirngibl A et al. Effect of breast-feeding on the development of atopic dermatitis during the first 3 years of life—results from the GINI-birth cohort study.[see comment]. *Journal of Pediatrics* 2004; 144:(5)602-7.
386. Lehmann HS, Heaton T, Mallon D et al. Staphylococcal enterotoxin-B-mediated stimulation of interleukin-13 production as a potential aetiological factor in eczema in infants. *International Archives of Allergy and Immunology* 2004; 135:(4)306-12.

387. Leung R. Asthma, allergy and atopy in South-east Asian immigrants in Australia.[see comment]. *Australian and New Zealand Journal of Medicine* 1994; 24:(3)255-7.
388. Leung R and Ho P. Asthma, allergy, and atopy in three south-east Asian populations. *Thorax* 1994; 49:(12)1205-10.
389. Leung R and Jenkins M. Asthma, allergy and atopy in southern Chinese school students. *Clinical and Experimental Allergy* 1994; 24:(4)353-8.
390. Leung R, Wong G, Lau J et al. Prevalence of asthma and allergy in Hong Kong schoolchildren: an ISAAC study. *European Respiratory Journal* 1997; 10:(2)354-60.
391. Lewis SA and Britton JR. Consistent effects of high socioeconomic status and low birth order, and the modifying effect of maternal smoking on the risk of allergic disease during childhood. *Respiratory Medicine* 1998; 92:(10)1237-44.
392. Linneberg A, Petersen J, Gronbaek M et al. Alcohol during pregnancy and atopic dermatitis in the offspring. *Clinical and Experimental Allergy* 2004; 34:(11)1678-83.
393. Ludvigsson JF, Mostrom M, Ludvigsson J et al. Exclusive breastfeeding and risk of atopic dermatitis in some 8300 infants. *Pediatric Allergy and Immunology* 2005; 16:(3)201-8.
394. Manjra AI, du PP, Weiss R et al. Childhood atopic eczema consensus document. *South African Medical Journal* 2005; 95:(6 Pt 2)435-40.
395. Martindale S, McNeill G, Devereux G et al. Antioxidant intake in pregnancy in relation to wheeze and eczema in the first two years of life. *American Journal of Respiratory and Critical Care Medicine* 2005; 171:(2)121-8.
396. McNally NJ, Williams HC, and Phillips DR. Atopic eczema and the home environment. *British Journal of Dermatology* 2001; 145:(5)730-6.
397. McNally NJ, Williams HC, Phillips DR et al. Atopic eczema and domestic water hardness. *Lancet* 1998; 352:(9127)527-31.
398. Miyake Y, Yura A, and Iki M. Breastfeeding and the prevalence of symptoms of allergic disorders in Japanese adolescents. *Clinical and Experimental Allergy* 2003; 33:(3)312-6.
399. Miyake Y, Yura A, and Iki M. Cross-sectional study of allergic disorders in relation to familial factors in Japanese adolescents. *Acta Paediatrica* 2004; 93:(3)380-5.
400. Montefort S, Lenicker HM, Caruna S et al. Asthma, rhinitis and eczema in Maltese 13-15 year-old schoolchildren – prevalence, severity and associated factors [ISAAC]. International Study of Asthma and Allergies in Childhood. *Clinical and Experimental Allergy* 1998; 28:(9)1089-99.
401. Moore MM, Rifas-Shiman SL, Rich-Edwards JW et al. Perinatal Predictors of Atopic Dermatitis Occurring in the First Six Months of Life. *Pediatrics* 2004; 113:(3)468-74.
402. Morren MA, Przybilla B, Bamelis M et al. Atopic dermatitis: triggering factors. *Journal of the American Academy of Dermatology* 1994; 31:(3 Pt 1)467-73.
403. Nafstad P, Magnus P, Gaarder PI et al. Exposure to pets and atopy-related diseases in the first 4 years of life.[see comment]. *Allergy* 2001; 56:(4)307-12.
404. Neild VS, Marsden RA, Bailes JA et al. Egg and milk exclusion diets in atopic eczema. *British Journal of Dermatology* 1986; 114:(1)117-23.
405. Osterlund P, Smedberg T, Hakulinen A et al. Eosinophil cationic protein in human milk is associated with development of cow's milk allergy and atopic eczema in breast-fed infants. *Pediatric Research* 2004; 55:(2)296-301.
406. Peng Y-H, Shyur S-D, Chang C-L et al. Fish allergy in atopic children. *Journal of Microbiology, Immunology and Infection* 2001; 34:(4)301-4.
407. Prescott SL, King B, Strong TL et al. The value of perinatal immune responses in predicting allergic disease at 6 years of age. *Allergy* 2003; 58:(11)1187-94.
408. Resch A, Schlipkoter U, Crispin A et al. Atopic disease and its determinants – a focus on the potential role of childhood infection. *Clinical and Experimental Allergy* 2004; 34:(8)1184-91.
409. Saarinen UM and Kajosaari M. Breastfeeding as prophylaxis against atopic disease: prospective follow-up study until 17 years old.[see comment]. *Lancet* 1995; 346:(8982)1065-9.
410. Schafer T, Dirschedl P, Kunz B et al. Maternal smoking during pregnancy and lactation increases the risk for atopic eczema in the offspring. *Journal of the American Academy of Dermatology* 1997; 36:(4)550-6.
411. Schafer T, Heinrich J, Wjst M et al. Indoor risk factors for atopic eczema in school children from East Germany. *Environmental Research* 1999; 81:(2)151-8.
412. Schafer T, Kramer U, Vieluf D et al. The excess of atopic eczema in East Germany is related to the intrinsic type. *British Journal of Dermatology* 2000; 143:(5)992-8.
413. Schafer T, Meyer J, Ring J et al. Worm infestation and the negative association with eczema (atopic/nonatopic) and allergic sensitization. *Allergy* 2005; 60:(8)1014-20.
414. Schmidt K, Pittler MH, Wilson N, van Gool C, Humphreys R, and Ernst E. Oral evening primrose oil and borage oil for atopic eczema. (Cochrane Review). In: Cochrane Database of Systematic Reviews, Issue 1, 2006. Chichester: Wiley Interscience.
415. Sherriff A, Golding J, and ALSPAC Study Team. Hygiene levels in a contemporary population cohort are associated with wheezing and atopic eczema in preschool infants. *Archives of Disease in Childhood* 2002; 87:(1)26-9.
416. Steffensen FH, Sorensen HT, Gillman MW et al. Low birth weight and preterm delivery as risk factors for asthma and atopic dermatitis in young adult males. *Epidemiology* 2000; 11:(2)185-8.
417. Taylor B, Wadsworth J, Golding J et al. Breast feeding, eczema, asthma, and hayfever. *Journal of Epidemiology and Community Health* 1983; 37:(2)95-9.
418. Terreehorst I, Oosting AJ, Tempels-Pavlica Z et al. Prevalence and severity of allergic rhinitis in house dust mite-allergic patients with bronchial asthma or atopic dermatitis. *Clinical and Experimental Allergy* 2002; 32:(8)1160-5.
419. Van Bever HP, Docx M, and Stevens WJ. Food and food additives in severe atopic dermatitis. *Allergy* 1989; 44:(8)588-94.
420. Von LML, Porsbjerg C, Ulrik CS et al. Prevalence and predictors of atopy among young Danish adults. *Clinical and Experimental Allergy* 2002; 32:(4)520-5.
421. Yang C-Y, Cheng M-F, and Hsieh Y-L. Effects of indoor environmental factors on risk for atopic eczema in a subtropical area. *Journal of Toxicology and Environmental Health Part A* 2000; 61:(4)245-53.
422. Yemaneberhan H, Flohr C, Lewis SA et al. Prevalence and associated factors of atopic dermatitis symptoms in rural and urban Ethiopia. *Clinical and Experimental Allergy* 2004; 34:(5)779-85.
423. Yura A and Shimizu T. Trends in the prevalence of atopic dermatitis in school children: longitudinal study in Osaka Prefecture, Japan, from 1985 to 1997. *British Journal of Dermatology* 2001; 145:(6)966-73.
424. Zirngibl A, Franke K, Gehring U et al. Exposure to pets and atopic dermatitis during the first two years of life. A cohort study. *Pediatric Allergy and Immunology* 2002; 13:(6)394-401.
425. Zutavern A, Hirsch T, Leupold W et al. Atopic dermatitis, extrinsic atopic dermatitis and the hygiene hypothesis: results from a cross-sectional study. *Clinical and Experimental Allergy* 2005; 35:(10)1301-8.

426. Bindslev-Jensen C, Ballmer-Weber BK, Bengtsson U *et al.* Standardization of food challenges in patients with immediate reactions to foods—position paper from the European Academy of Allergology and Clinical Immunology. [73 refs]. *Allergy* 2004; 59:(7)690-7.
427. Niggemann B, Binder C, Dupont C *et al.* Prospective, controlled, multi-center study on the effect of an amino-acid-based formula in infants with cow's milk allergy/intolerance and atopic dermatitis. *Pediatric Allergy and Immunology* 2001; 12:(2)78-82.
428. Andersson A-C, Lindberg M, and Loden M. The effect of two urea-containing creams on dry, eczematous skin in atopic patients. I. Expert, patient and instrumental evaluation. *Journal of Dermatological Treatment* 1999; 10:(3)165-9.
429. Barham KL and Yosipovitch G. It's a wrap: the use of wet pajamas in wet-wrap dressings for atopic dermatitis. *Dermatology Nursing* 2005; 17:(5)365-7.
430. Buraczewska I, Berne B, Lindberg M *et al.* Changes in skin barrier function following long-term treatment with moisturizers, a randomized controlled trial. *British Journal of Dermatology* 156;(3)492-8.
431. Clinical Research Group for Urea Ointment. A Double-Blind Study on Clinical Efficacy of Urea Ointment. *Rinsho Hyoka (Clinical Evaluation)* 1977; 5:(1)103-25.
432. Cork MJ. Causes and treatment of childhood eczema. *Exchange - Quarterly Journal of the National Eczema Society* 2002; 105:14-5;-37-38.
433. Cork MJ. The importance of skin barrier function. *Journal of Dermatological Treatment* 1987;(8)S7-S13.
434. Cork MJ, Robinson D, Vasilopoulos Y *et al.* Predisposition to sensitive skin and eczema. *Community Practitioner* 2005; 78:(12)440-2.
435. Cork MJ, Robinson DA, Vasilopoulos Y *et al.* New perspectives on epidermal barrier dysfunction in atopic dermatitis: Gene-environment interactions. *Journal of Allergy and Clinical Immunology* 2006; 118:(1)3-21.
436. Foelster-Holst R. Efficacy of crisis intervention treatment with topical corticosteroid prednicarbat with and without partial wet-wrap dressing in atopic dermatitis. *Dermatology (Basel, Switzerland)* 2006; 212:(1)66-9.
437. Goodyear HM and Harper JL. 'Wet wrap' dressings for eczema: an effective treatment but not to be misused. *British Journal of Dermatology* 2002; 146:(1)159.
438. Groel JT. Dimethyl sulfoxide as a vehicle for corticosteroids. A comparison with the occlusive dressing technique. *Archives of Dermatology* 1968; 97:(2)110-4.
439. Kantor I, Milbauer J, Posner M *et al.* Efficacy and safety of emollients as adjunctive agents in topical corticosteroid therapy for atopic dermatitis. *Today's Therapeutic Trends* 1993; 11:(3)157-66.
440. Larregue M, Devaux J, Audebert C *et al.* A double-blind controlled study on the efficacy and tolerability of 6% ammonium lactate cream in children with atopic dermatitis. *Nouvelles Dermatologiques* 1996; 15:(10)720-1.
441. Hoare C, Li Wan PA, and Williams H. Systematic review of treatments for atopic eczema. No. 4. 37. ENGLAND: 2000.
442. Lawton S. Atopic eczema: nurse-led care – 2. Treatments. *Journal of Family Health Care* 2005; 15:(2)51-4.
443. Loden M. Role of topical emollients and moisturizers in the treatment of dry skin barrier disorders. *American Journal of Clinical Dermatology* 2003; 4:(11)771-88.
444. Loden M, Andersson AC, Anderson C *et al.* A double-blind study comparing the effect of glycerin and urea on dry, eczematous skin in atopic patients. *Acta Dermato-Venereologica* 2002; 82:(1)45-7.
445. Loden M, Andersson AC, and Lindberg M. Improvement in skin barrier function in patients with atopic dermatitis after treatment with a moisturizing cream (Canoderm). *British Journal of Dermatology* 1999; 140:(2)264-7.
446. Mallon E, Powell S, and Bridgman A. 'Wet-wrap' dressings for the treatment of atopic eczema in the community. *Journal of Dermatological Treatment* 1994; 5:(2)97-8.
447. Nicol NH. Atopic dermatitis: the (wet) wrap-up. *American Journal of Nursing* 1987; 87:(12)1560-3.
448. Page B. The benefits of Tubifast Garments in the management of atopic eczema. *British Journal of Nursing* 2005; 14:(5)289-90.
449. Rajka G. Emollient therapy in atopic dermatitis. *Journal of Dermatological Treatment* 1997; 8:(SUPPL. 1)S19-S21.
450. Riley K. Flurandrenolone (Cordran) tape as occlusive therapy. *Journal - South Carolina Medical Association* 1969; 65:(5)171-2.
451. Sladden MJ, Mortimer NJ, and Milligan AM. Wet wraps in atopic eczema: the dangers of inadequately sized 'negative' clinical trials.[comment]. *Clinical and Experimental Dermatology* 2005; 30:(4)454-5.
452. Beattie PE and Lewis-Jones MS. A pilot study on the use of wet wraps in infants with moderate atopic eczema. *Clinical and Experimental Dermatology* 2004; 29:(4)348-53.
453. Tang WYM. Diluted steroid facial wet wraps for childhood atopic eczema. *Dermatology* 2000; 200:(4)338-9.
454. Thestrup-Pedersen K. Treatment principles of atopic dermatitis. *Journal of the European Academy of Dermatology and Venereology* 2002; 16:(1)1-9.
455. Twitchen LJ and Lowe AJ. Atopic eczema and wet-wrap dressings. *Professional Nurse* 1998; 14:(2)113-6.
456. Vilaplana J, Coll J, Trullas C *et al.* Clinical and non-invasive evaluation of 12% ammonium lactate emulsion for the treatment of dry skin in atopic and non-atopic subjects. *Acta Dermato-Venereologica* 1992; 72:(1)28-33.
457. Therapeutic advance: Don't forget children. *Prescrire International* 2003; 12:(66)122.
458. Allen DB. Systemic effects of inhaled corticosteroid in children. *Current Opinion in Pediatrics* 2004; 16:(4)440-4.
459. Almeyda J and Burt BW. Double blind controlled study of treatment of atopic eczema with a preparation of hydrocortisone in a new drug delivery system versus betamethasone 17-valerate. *British Journal of Dermatology* 1974; 91:(5)579-83.
460. Baselga E. Treatment of atopic dermatitis in infancy. *Actas Dermo-Sifiliograficas* 2003; 94:(6)345-55.
461. Baum WF, Schneyer U, Lantzsch AM *et al.* Delay of growth and development in children with bronchial asthma, atopic dermatitis and allergic rhinitis. *Experimental and Clinical Endocrinology and Diabetes* 2002; 110:(2)53-9.
462. Benincori A, Picarazzi A, Mancuso G *et al.* Efficacy and side effects of a new topical steroid: Fluocortin butyl. *Folia Allergologica et Immunologica Clinica* 1988; 35:(2)97-104.
463. Bernier C. How should severe and chronic atopic dermatitis be managed in children?. [French]. *Annales de Dermatologie et de Venereologie* 2005; 132:(SPEC. ISS. 1)S267-81.
464. Berth-Jones J. Product focus. Fluticasone propionate: a twice-weekly steroid regimen for eczema. *Practice Nursing* 2004; 15:(6)302-5.
465. Berth-Jones J, Damstra RJ, Golsch S *et al.* Twice weekly fluticasone propionate added to emollient maintenance treatment to reduce risk of relapse in atopic dermatitis: randomised, double blind, parallel group study. *British Medical Journal* 2003; 326:(7403)1367.
466. Beylot C, Feuillatre F, and Doutre M-S. Topical corticosteroids in children. *Revue du Praticien* 1987; 37:(44)2713-8.
467. Blum G. Evaluation of halometasone cream in the treatment of paediatric patients with acute eczematous dermatoses. *Journal of International Medical Research* 1983; 11:(Suppl. 1)8-12.
468. Boralevi F. What additional measures should be recommended in atopic dermatitis in children? [French]. *Annales de Dermatologie et de Venereologie* 2005; 132:(Spec Iss 1)S79-85.

469. Brazzelli V, Larizza D, Roveda E *et al.* Acquired localized iatrogenic hypertrichosis: A pediatric case report. *Giornale Italiano di Dermatologia e Venereologia* 2003; 138:(6)483-6.
470. Breneman D, Fleischer AB, Jr., Kaplan D *et al.* Clobetasol propionate 0.05% lotion in the treatment of moderate to severe atopic dermatitis: a randomized evaluation versus clobetasol propionate emollient cream. *Journal of Drugs in Dermatology* 2005; 4:(3)330-6.
471. Buchvald D. Mometasone furoate in the treatment of atopic dermatitis in children - open clinical study. *Ceskoslovenska Dermatologie* 1996; 71:(3)105-7.
472. Callen J, Chamlin S, Eichenfield LF *et al.* A systematic review of the safety of topical therapies for atopic dermatitis. *British Journal of Dermatology* 2007; 156:(2)203-21.
473. Cambazard F. The use of topical corticosteroids in atopic dermatitis in children. *Annales de Dermatologie et de Venereologie* 2005; 132:(Spec Iss 1)1S64-7.
474. Centre for Reviews and Dissemination. Treatment of atopic dermatitis and impact on quality of life: a review with emphasis on topical non-corticosteroids. (Cochrane Review). In: Database of Abstracts of Reviews of Effects, Issue 4, 2005. Chichester: Wiley Interscience.
475. Chavigny J-M. The place of therapeutic education in the treatment of atopic dermatitis in children. [French]. *Annales de Dermatologie et de Venereologie* 2005; 132:(Spec Iss 1)1S116-20.
476. Chiaverini C. What are means of preventing flares and the adjuvant measures to be taken in atopic dermatitis in children?. [French]. *Annales de Dermatologie et de Venereologie* 2005; 132:(SPEC. ISS. 1)1S243-66.
477. Crespi HG. Topical corticosteroid therapy for children: alclometasone dipropionate cream 0.05%. *Clinical Therapeutics* 1986; 8:(2)203-10.
478. David TJ. Short stature in children with atopic eczema. *Acta Dermato-Venereologica* 1989; Supplementum. 144:41-4.
479. Del Rosso J. and Friedlander SF. Corticosteroids: options in the era of steroid-sparing therapy. *Journal of the American Academy of Dermatology* 2005; 53:(1 Suppl 1)S50-S58.
480. Dominguez L, Hojyo T, Vega E *et al.* Comparison of the safety and efficacy of mometasone furoate cream 0.1% and clobetasone butyrate cream 0.05% in the treatment of children with a variety of dermatoses. *Current Therapeutic Research* 1990; 48:(1)128-39.
481. Eichenfield LF, Miller BH, and Cutivate Lotion Study Group. Two randomized, double-blind, placebo-controlled studies of fluticasone propionate lotion 0.05% for the treatment of atopic dermatitis in subjects from 3 months of age. *Journal of the American Academy of Dermatology* 2006; 54:(4)715-7.
482. el-Hefnawi H, el-Shiemy S, Paris R *et al.* Double-blind paired comparison clinical trial of halcinonide and hydrocortisone. *Cutis* 1978; 22:(1)97-9.
483. Ersser S, Latter S, Surridge H, Buchanan P, Satherley P, and Welbourne S. Psychological and educational interventions for atopic eczema in children. (Cochrane Review). In: Cochrane Database of Systematic Reviews, Issue 1, 2006. Chichester: Wiley Interscience.
484. Fattah AA, el-Shiemy S, Faris R *et al.* A comparative clinical evaluation of a new topical steroid 'halcinonide' and hydrocortisone in steroid-responsive dermatoses. *Journal of International Medical Research* 1976; 4:(4)228-31.
485. Fischer G. Common skin problems in children. Part 2: Rashes other than atopic dermatitis. *Medicine Today* 2005; 6:(4)43-52.
486. Fisher M and Kelly AP. Multicenter trial of fluocinonide in an emollient cream base. *International Journal of Dermatology* 1979; 18:(8)660-4.
487. Flohr C and Williams HC. Evidence based management of atopic eczema. *Archives of Disease in Childhood Education and Practice* 2004; 89:(2)e35-e39.
488. Foelster-Holst R, Nagel F, Zoellner P *et al.* Efficacy of crisis intervention treatment with topical corticosteroid prednicarbat with and without partial wet-wrap dressing in atopic dermatitis. *Dermatology* 2006; 212:(1)66-9.
489. Foti C, Bonifazi E, Casulli C *et al.* Contact allergy to topical corticosteroids in children with atopic dermatitis. *Contact Dermatitis* 2005; 52:(3)162-3.
490. Fredriksson T and Nordin K. Clobetasone butyrate compared with betamethasone valerate in the treatment of atopic and contact dermatitis. *Current Medical Research and Opinion* 1979; 6:(5)322-4.
491. Frichot BC and Zelickson AS. Steroids, lysosomes and dermatitis. An ultrastructural study. *Acta Dermato-Venereologica* 1972; 52:(4)311-9.
492. Gelmetti C, Grimalt R, Del CG *et al.* Tolerability and efficacy of topical budesonide in the treatment of atopic dermatitis in pediatric age. *Giornale Italiano di Dermatologia e Venereologia* 1994; 129:(3)XIII-XVII.
493. Giannetti A, Laria G, and Seidenari S. Hydrocortisone 17-butyrate 0.1% (locoid)(R) or hydrocortisone acetate 1% ointment in children with atopic dermatitis? *Current Therapeutic Research* 1984; 36:(3)414-20.
494. Goustas P, Cork MJ, and Higson D. Eumovate (clobetasone butyrate 0.05%) cream: A review of clinical efficacy and safety. *Journal of Dermatological Treatment* 2003; 14:(2)71-85.
495. Granlund H. Treatment of childhood eczema. *Paediatric Drugs* 2002; 4:(11)729-35.
496. Grater WC and Grover FW. Evolution of a topical corticosteroid (flumethasone pivalate) in allergic dermatoses. *Southern Medical Journal* 1967; 60:(11)1153-8.
497. Gupta AK and Chow M. Prednicarbate (Dermatop): profile of a corticosteroid. *Journal of Cutaneous Medicine and Surgery* 2004; 8:(4)244-7.
498. Harper J. Topical corticosteroids for skin disorders in infants and children. *Drugs* 1988; 36:(Suppl 5)34-7.
499. Hernanz Hermosa JM, Chavarria ME, Mauleon FC *et al.* [Stretch marks] [Spanish]. *Acta Pediatrica Espanola* 2003; 61:(1)21-3.
500. Herz G, Yawalkar SJ, and Weirich EG. Evaluation of halometasone ointment in the treatment of paediatric patients with chronic eczematous dermatoses. *Journal of International Medical Research* 1983; 11:(Suppl. 1)21-5.
501. Jorizzo J, Levy M, Lucky A *et al.* Multicenter trial for long-term safety and efficacy comparison of 0.05% desonide and 1% hydrocortisone ointments in the treatment of atopic dermatitis in pediatric patients. *Journal of the American Academy of Dermatology* 1995; 33:(1)74-7.
502. Kataoka Y. Problems of topical corticosteroid in caring children's atopic dermatitis. *Skin Research* 2004; 3:(SUPPL. 4)57-62.
503. Khobragade KJ. Efficacy and safety of combination ointment 'fluticasone propionate 0.005% plus mupirocin 2.0%' for the treatment of atopic dermatitis with clinical suspicion of secondary bacterial infection: An open label uncontrolled study. *Indian Journal of Dermatology, Venereology and Leprology* 2005; 71:(2)91-5.
504. Krafchik BR. The use of topical steroids in children. *Seminars in Dermatology* 1995; 14:(1)70-4.
505. Krasowska D, Leczewicz-Torun B, Wilkowska A *et al.* Evaluation of efficacy and safety of fluticasone propionate (cutivate) application in children with atopic dermatitis in the long-term intermittent method. *Przegląd Dermatologiczny* 2001; 88:(6)513-8.
506. Kristmundsdottir F and David TJ. Growth impairment in children with atopic eczema. *Journal of the Royal Society of Medicine* 1987; 80:(1)9-12.
507. Lacour J-P, Crickx B, Dupont C *et al.* Management of atopic dermatitis in children. *Presse Medicale* 2005; 34:(2 I)128-38.
508. Lane AT. Efficacy and safety of topical steroids in paediatric atopic dermatitis. *Journal of the European Academy of Dermatology and Venereology* 1997; 8:(SUPPL. 1)S24-S27.
509. Lebrun-Vignes B, Legrain V, Amoric J-C *et al.* Comparative study of efficacy and effect on plasma cortisol levels of micronized desonide cream 0.1 p. 100 versus betamethasone dipropionate cream 0.05 p. 100 in the treatment of childhood atopic dermatitis. *Annales de Dermatologie et de Venereologie* 2000; 127:(6-7)590-5.

510. Leung DYM, Nicklas RA, Li JT et al. Disease management of atopic dermatitis: An updated practice parameter. *Annals of Allergy, Asthma, and Immunology* 2004; 93:(3 SUPPL. 2)S1-S21.
511. Meenan FO. The treatment of atopic dermatitis with clobetasol propionate. *Irish Medical Journal* 1977; 70:(10)316.
512. Green C, Colquitt JL, Kirby J, Davidson P, and Payne E. Clinical and cost-effectiveness of once-daily versus more frequent use of same potency topical corticosteroids for atopic eczema: a systematic review and economic evaluation. No. 8. 47. 2004.
513. MIURA Y, HAMASAKA K, SEIJI M et al. A Double-Blind Controlled Study on the Clinical Utility of Topical Fluocortolone -Clinical Research Group for Topical Fluocortolone-. *Rinsho Hyoka (Clinical Evaluation)* 1977; 5:(3)597-632.
514. Morley N, Fry L, and Walker S. Clinical evaluation of clobetasone butyrate in the treatment of children with atopic eczema, and its effect on plasma corticosteroid levels. *Current Medical Research and Opinion* 1976; 4:(3)223-8.
515. Morren M-A and Dooms-Goossens A. Corticosteroid allergy in children: A potential complication of atopic eczema. *European Journal of Dermatology* 1994; 4:(2)106-9.
516. Morris EC. Pharmacotherapy of allergic disease. *Primary Care; Clinics in Office Practice* 1987; 14:(3)605-21.
517. Nilsson EJ, Henning CG, and Magnusson J. Topical corticosteroids and Staphylococcus aureus in atopic dermatitis. *Journal of the American Academy of Dermatology* 1992; 27:(1)29-34.
518. Ortonne J-P. Safety aspects of topical methylprednisolone aceponate (MPA) treatment. *Journal of Dermatological Treatment* 1992; 3:(SUPPL. 2)21-5.
519. Ott H and Hoger P. Treatment of atopic eczema in childhood. *Padiatrische Praxis* 2004; 65:(3)445-58.
520. Patel L, Clayton PE, Jenney ME et al. Adult height in patients with childhood onset atopic dermatitis. *Archives of Disease in Childhood* 1997; 76:(6)505-8.
521. Peng YS, Shyr SD, Lin HY et al. Steroid allergy: report of two cases. *Journal of Microbiology, Immunology and Infection* 2001; 34:(2)150-4.
522. Rampini E. Methylprednisolone aceponate (MPA) - Use and clinical experience in children. *Journal of Dermatological Treatment* 1992; 3:(SUPPL. 2)27-9.
523. Rauschkolb EW, Bender SH, Ebling JK et al. Low concentration halcinonide cream in the topical management of atopic dermatitis in pediatric patients. *Cutis* 1981; 27:(1)105-7.
524. Sanabria-Silva E, Laterza AM, Tamayo L et al. Evaluation of rebound phenomenon in children with atopic dermatitis treated with topical corticosteroids. *Dermatologia Revista Mexicana* 1991; 35:(2)84-9.
525. Savin RC. Halcinonide, a new topical anti-inflammatory steroid. *The Journal of international medical research* 1976; 4:(1)34-6.
526. Schachner LA. A 3-day rate of efficacy of a moderate potency topical steroid in the treatment of atopic dermatitis in infancy and childhood. *Pediatric Dermatology* 1996; 13:(6)513-4.
527. Schempp CM, Hezel S, and Simon JC. [Topical treatment of atopic dermatitis with Hypericum cream. A randomised, placebo-controlled, double-blind half-side comparison study] [German]. *Der Hautarzt* 2003; 54:(3)248-53.
528. Schlessinger J. An open-label adrenal suppression study of 0.1% fluocinonide cream in pediatric patients with atopic dermatitis. *Archives of Dermatology* 2006; 142:(12)1568-72.
529. Silverman A. Fluocinonide vs halcinonide in atopic dermatitis. A paired comparison of two potent topical corticosteroids. *Cutis* 1979; 23:(3)375-8.
530. Smethurst D. Atopic eczema. [update in Clin Evid. 2002 Dec;(8):1664-82; PMID: 12603963]. *Clinical Evidence* 2002;(7)1467-82.
531. Srinivasan TN, Suresh TR, and Anandan S. Depression following corticosteroid withdrawal in a child. *Indian Journal of Dermatology, Venereology and Leprology* 1990; 56:(2)158-9.
532. Stalder JF. How to prescribe topical corticosteroids for children? *Journal de Pediatrie et de Puericulture* 1998; 11:(8)481-4.
533. Tapia AG. The impact of new topical corticosteroids on the management of atopic dermatitis. *Actas Dermo-Sifiliograficas* 2001; 92:(11)483-8.
534. Van Coevorden AM, Williams HC, Svensson A, Diepgen TL, Elsner P, and Coenraads PJ. Interventions for hand eczema. (Cochrane Review). In: *Cochrane Database of Systematic Reviews*, Issue 1, 2006. Chichester: Wiley Interscience.
535. Vanderploeg DE. Betamethasone dipropionate ointment in the treatment of psoriasis and atopic dermatitis: a double-blind study. *Southern Medical Journal* 1976; 69:(7)862-3.
536. Williams HC. Twice-weekly topical corticosteroid therapy may reduce atopic dermatitis relapses. *Archives of Dermatology* 2004; 140:(9)1151-2.
537. Wolkerstorfer A, Visser RL, De Waard van der Spek FB et al. Efficacy and safety of wet-wrap dressings in children with severe atopic dermatitis: influence of corticosteroid dilution. *British Journal of Dermatology* 2000; 143:(5)999-1004.
538. Wolthers OD, Heuck C, Ternowitz T et al. Insulin-like growth factor axis, bone and collagen turnover in children with atopic dermatitis treated with topical glucocorticosteroids. *Dermatology* 1996; 192:(4)337-42.
539. Wong VK, Della CC, Schonfeld S et al. Use and abuse of topical corticosteroids in infections of the skin and related structures. *Journal of Drugs in Dermatology* 2003; 2:(3)268-76.
540. Simon D. Benefits from the use of a pimecrolimus-based treatment in the management of atopic dermatitis in clinical practice. Analysis of a Swiss cohort. *Dermatology* 2006; 213:(4)313-8.
541. Chapman MS, Schachner LA, Breneman D et al. Tacrolimus ointment 0.03% shows efficacy and safety in pediatric and adult patients with mild to moderate atopic dermatitis. *Journal of the American Academy of Dermatology* 2005; 53:(2 Suppl 2)S177-S185.
542. Schachner LA, Lamerson C, Sheehan MP et al. Tacrolimus ointment 0.03% is safe and effective for the treatment of mild to moderate atopic dermatitis in pediatric patients: results from a randomized, double-blind, vehicle-controlled study. *Pediatrics* 2005; 116:(3)e334-e342.
543. Kang S, Paller A, Soter N et al. Safe treatment of head/neck AD with tacrolimus ointment. *Journal of Dermatological Treatment* 2003; 14:(2)86-94.
544. Paller A, Eichenfield LF, Leung DY et al. A 12-week study of tacrolimus ointment for the treatment of atopic dermatitis in pediatric patients. *Journal of the American Academy of Dermatology* 2001; 44:(1 Suppl)S47-S57.
545. Paller AS, Lebwohl M, Fleischer AB, Jr. et al. Tacrolimus ointment is more effective than pimecrolimus cream with a similar safety profile in the treatment of atopic dermatitis: results from 3 randomized, comparative studies. *Journal of the American Academy of Dermatology* 2005; 52:(5)810-22.
546. Papp K, Staab D, Harper J et al. Effect of pimecrolimus cream 1% on the long-term course of pediatric atopic dermatitis. *International Journal of Dermatology* 2004; 43:(12)978-83.
547. Wahn U, Bos JD, Goodfield M et al. Efficacy and safety of pimecrolimus cream in the long-term management of atopic dermatitis in children. *Pediatrics* 2002; 110:(1 Pt 1)e2.
548. Kapp A, Papp K, Bingham A et al. Long-term management of atopic dermatitis in infants with topical pimecrolimus, a nonsteroid anti-inflammatory drug. *Journal of Allergy and Clinical Immunology* 2002; 110:(2)277-84.
549. Barba JF and Beirana A. Pimecrolimus cream 1% is effective, well tolerated and safe in infants and children with atopic eczema of the face. *Journal of the European Academy of Dermatology and Venereology* 17(P2-35), 182. 2003.

550. Won CH, Seo PG, Park YM *et al.* A multicenter trial of the efficacy and safety of 0.03% tacrolimus ointment for atopic dermatitis in Korea. *Journal of Dermatological Treatment* 2004; 15:(1)30-4.
551. Yeung CK, Ma KC, and Chan HH. Efficacy and safety of tacrolimus ointment monotherapy in Chinese children with atopic dermatitis. *Skinmed* 2006; 5:(1)12-7.
552. Paul C, Cork M, Rossi AB *et al.* Safety and tolerability of 1% pimecrolimus cream among infants: experience with 1133 patients treated for up to 2 years. [56 refs]. *Pediatrics* 2006; 117:(1)e118-e128.
553. Anonymous. Oral antihistamines for allergic disorders. *Drug and Therapeutics Bulletin* 2002; 40:(8)59-62.
554. Anonymous. Doxepin cream for eczema? *Drug and Therapeutics Bulletin* 2000; 38:(4)31-2.
555. Berth-Jones J and Graham-Brown RA. Failure of terfenadine in relieving the pruritus of atopic dermatitis. *British Journal of Dermatology* 1989; 121:(5)635-7.
556. Chae KM and Tharp MD. Use and safety of antihistamines in children. *Dermatologic Therapy* 2000; 13:(4)374-83.
557. Curran MP, Scott LJ, and Perry CM. Cetirizine: a review of its use in allergic disorders. *Drugs* 2004; 64:(5)523-61.
558. Eysenbach G, Williams H, and Diepgen TL. Antihistamines for atopic eczema. (Cochrane Review). In: *Cochrane Database of Systematic Reviews*, Issue 1, 2006. Chichester: Wiley Interscience.
559. Freitag G and Hoppner T. Results of a postmarketing drug monitoring survey with a polidocanolurea preparation for dry, itching skin. *Current Medical Research and Opinion* 1997; 13:(9)529-37.
560. Herman SM and Vender RB. Antihistamines in the Treatment of Atopic Dermatitis. *Journal of Cutaneous Medicine and Surgery* 2003; 7:(6)467-73.
561. Imaizumi A, Kawakami T, Murakami F *et al.* Effective treatment of pruritus in atopic dermatitis using H1 antihistamines (second-generation antihistamines): changes in blood histamine and tryptase levels. *Journal of Dermatological Science* 2003; 33:(1)23-9.
562. Markham A and Goa KL. Ketotifen. A review of its therapeutic efficacy in dermatological disorders. *Clinical Immunotherapeutics* 1996; 5:(5)400-11.
563. Ones U and Tamay Z. New oral antihistamines in pediatrics and safety of antihistamines in children. *Current Medicinal Chemistry - Anti-Inflammatory and Anti-Allergy Agents* 2005; 4:(5)495-506.
564. Phillips RL, Jr. and Koenig CJ. Antihistamines for atopic dermatitis. *Journal of Family Practice* 2000; 49:(3)267.
565. Shanon A, Feldman W, Leikin L *et al.* Comparison of CNS adverse effects between astemizole and chlorpheniramine in children: a randomized, double-blind study. *Developmental Pharmacology and Therapeutics* 1993; 20:(3-4)239-46.
566. Simons FE, Simons KJ, Becker AB *et al.* Pharmacokinetics and antipruritic effects of hydroxyzine in children with atopic dermatitis. *Journal of Pediatrics* 1984; 104:(1)123-7.
567. Simons FE and the ETAC Study Group. Population pharmacokinetics of levocetirizine in very young children: the pediatricians' perspective. *Pediatric Allergy and Immunology* 2005; 16:(2)97-103.
568. Bibel DJ, Greenberg JH, and Cook JL. Staphylococcus aureus and the microbial ecology of atopic dermatitis. *Canadian Journal of Microbiology* 1977; 23:(8)1062-8.
569. Blattner RJ. Molluscum contagiosum: eruptive infection in atopic dermatitis. [12 refs]. *Journal of Pediatrics* 1967; 70:(6)997-9.
570. Bonifazi E and Garofalo. Role of some infectious agents in atopic dermatitis. *Acta Dermato-Venereologica* 1985; Supplementum. 114:98-100.
571. Bork K. Increasing incidence of eczema herpeticum: analysis of seventy-five cases. *Journal of the American Academy of Dermatology* 1988; 19:(6)1024-9.
572. Chavigny JM. Effect of an emollient cream on microbial colonisation in patients with atopic dermatitis. *Nouvelles Dermatologiques* 1998; 17:(6)378-83.
573. Cortigiani L. Presentation of a case of herpeticum eczema arising in an infant. *Giornale di Malattie Infettive e Parassitarie* 1989; 41:(6)568-71.
574. David TJ. Infection and prevention: current controversies in childhood atopic eczema: a review. [29 refs]. *Journal of the Royal Society of Medicine* 1989; 82:(7)420-2.
575. Espana A. Eczema herpeticum in childhood. *Acta Pediatrica Espanola* 1992; 50:(9)697-9.
576. Ewing CI, Roper HP, David TJ *et al.* Death from eczema herpeticum in a child with severe eczema, mental retardation and cataracts. *Journal of the Royal Society of Medicine* 1989; 82:(3)169-70.
577. Fleischer AB. Tacrolimus ointment for the treatment of atopic dermatitis is not associated with an increase in cutaneous infections.[see comment]. *Journal of the American Academy of Dermatology* 2002; 47:(4)562-70.
578. Goodyear HM. Immunological studies of herpes simplex virus infection in children with atopic eczema. *British Journal of Dermatology* 1996; 134:(1)85-93.
579. Hanifin JM. Staphylococcal colonization, infection, and atopic dermatitis - Association not etiology. *Journal of Allergy and Clinical Immunology* 1986; 78:(4)563-6.
580. Higaki S and Kitagawa. Efficacy of Shiunko for the treatment of atopic dermatitis. *Journal of International Medical Research* 1999; 27:(3)143-7.
581. Hon KL, Leung TF, and Wong. Skin diseases in Chinese children at a pediatric dermatology center. *Pediatric Dermatology* 2004; 21:(2)109-12.
582. Strategos J. Fusidic acid-betamethasone combination in infected eczema: an open, randomized comparison with gentamicin-betamethasone combination. *Pharmatherapeutica* 1986; 4:(9)601-6.
583. Parish LC, Jorizzo JL, Breton JJ *et al.* Topical retapamulin ointment (1%, wt/wt) twice daily for 5 days versus oral cephalexin twice daily for 10 days in the treatment of secondarily infected dermatitis: results of a randomized controlled trial. *Journal of the American Academy of Dermatology* 2006; 55:(6)1003-13.
584. Schultz LF. An efficient new formulation of fusidic acid and betamethasone 17-valerate (Fucicort Lipid cream) for treatment of clinically infected atopic dermatitis. *Acta Dermato-Venereologica* 2007; 87:(1)62-8.
585. Senti G. Antimicrobial silk clothing in the treatment of atopic dermatitis proves comparable to topical corticosteroid treatment. *Dermatology* 2006; 213:(3)228-33.
586. Gong JQ. Skin colonization by Staphylococcus aureus in patients with eczema and atopic dermatitis and relevant combined topical therapy: a double-blind multicentre randomized controlled trial. *British Journal of Dermatology* 2006; 155:(4)680-7.
587. Kim KH, Hwang JH, and ark KC. Periauricular eczematization in childhood atopic dermatitis. *Pediatric Dermatology* 1996; 13:(4)278-80.
588. Leung DYM. Infection in atopic dermatitis. *Current Opinion in Pediatrics* 2003; 15:(4)399-404.
589. McKnight JT. Dermatologic manifestations of giardiasis. *Journal of the American Board of Family Practice* 1992; 5:(4)425-8.
590. Merishita Y. Possible influences of Staphylococcus aureus on atopic dermatitis - The colonizing features and the effects of staphylococcal enterotoxins. *Clinical and Experimental Allergy* 1999; 29:(8)1110-7.
591. Michie CA. Atopic dermatitis and staphylococcal superantigens. *Lancet* 1996; 347:(8997)324.

592. Minak JG. Treatment of forms of infantile dermatitis with a multi-purpose drug combination. *Current Therapeutic Research, Clinical and Experimental* 1984; 36:(6)1198-202.
593. Morishita Y. Possible influences of *Staphylococcus aureus* on atopic dermatitis– the colonizing features and the effects of staphylococcal enterotoxins. *Clinical and Experimental Allergy* 1999; 29:(8)1110-7.
594. Nakabayashi A. Identification of *Malassezia* species isolated from patients with seborrheic dermatitis, atopic dermatitis, pityriasis versicolor and normal subjects. *Medical Mycology* 2000; 38:(5)337-41.
595. Nasemann TRK. Treatment of secondary infected atopic dermatitis of the scalp in children. *Zeitschrift für Hautkrankheiten* 1992; 67:(1).
596. Park CW, Lee BH, and Lee CH. Tacrolimus reduces staphylococcal colonization on the skin in Korean atopic dermatitis patients. *Drugs Under Experimental and Clinical Research* 2005; 31:(2)77-87.
597. Park J. Staphylococcal scalded skin syndrome, review of 20 cases. *Korean Journal of Dermatology* 2002; 40:(9)1051-7.
598. Rincon S and Celis. *Malassezia* yeast species isolated from patients with dermatologic lesions. *Biomedica* 2005; 25:(2)189-95.
599. Roll A. Microbial colonization and atopic dermatitis. *Current Opinion in Allergy and Clinical Immunology* 2004; 4:(5)373-8.
600. Roncero M. Varicella in a patient with atopic dermatitis treated with topical antihistamines. *Acta Pediatrica Espanola* 2002; 60:(8)415-9.
601. Ronnerfalt L. EMLA cream provides rapid pain relief for the curettage of molluscum contagiosum in children with atopic dermatitis without causing serious application-site reactions. *Pediatric Dermatology* 1998; 15:(4)309-12.
602. Schempp CM. Topical treatment of atopic dermatitis with St. John's wort cream—a randomized, placebo controlled, double blind half-side comparison. *Phytomedicine : international journal of phytotherapy and phytopharmacology* 2003; 10:(Suppl 4)31-7.
603. Shibuya-Masuya E and Kitagawa. Simultaneous bilateral occurrence of herpes simplex virus keratoconjunctivitis in patients with atopic dermatitis. *Folia Ophthalmologica Japonica* 2005; 56:(7)498-502.
604. Svejgaard E and Faergeman. Recent investigations on the relationship between fungal skin diseases and atopic dermatitis. *Acta Dermato-Venereologica* 1989; Supplementum. 144:140-2.
605. Williams JV, Eichenfield LF, Burke BL et al. Prevalence of scalp scaling in prepubertal children. *Pediatrics* 2005; 115:(1)e1-e6.
606. Antibiotic therapy in atopic dermatitis. *European Journal of Pediatric Dermatology* 1996; 6:(2)77-80.
607. Abdel AH, Abdallah MA, skandar IO et al. Clinical experience with 0.05% halometasone/1% triclosan cream in the treatment of acute infected and infection-prone eczema in Egypt. *Journal of International Medical Research* 1987; 15:(6)383-90.
608. Akiyama H. Changes in *Staphylococcus aureus* density and lesion severity after topical application of povidone-iodine in cases of atopic dermatitis. *Journal of Dermatological Science* 1997; 16:(1)23-30.
609. Akiyama H. Topical use of hinokitiol ointment in atopic dermatitis patients - With special reference to colony count of *Staphylococcus aureus* on the surfaces of atopic dermatitis. *Chemotherapy* 1994; 42:(10)1202-11.
610. Allen HB. Scaling scalp diseases in children. *Clinical Pediatrics* 1983; 22:(5)374-7.
611. Aly R. Microbial flora of atopic dermatitis. *Archives of Dermatology* 1977; 113:(6)780-2.
612. Aoki T. Parents' evaluation of povidone iodine disinfection treatment in atopic dermatitis under 10 years of age. *Skin Research* 2005; 4:(SUPPL. 5)99-108.
613. Arima Y. Antibacterial effect of beta-thujaplicin on staphylococci isolated from atopic dermatitis: relationship between changes in the number of viable bacterial cells and clinical improvement in an eczematous lesion of atopic dermatitis. *Journal of Antimicrobial Chemotherapy* 2003; 51:(1)113-22.
614. Brehler RBS. Atopic dermatitis: The role of *Pityrosporum ovale*. *Journal of the European Academy of Dermatology and Venereology* 2001; 15:(1)5-6.
615. Buka RL. Etanercept is minimally effective in 2 children with atopic dermatitis [7]. *Journal of the American Academy of Dermatology* 2005; 53:(2)358-9.
616. Bundino S, ina AM, and arberis. Evaluation of josamycin in skin infections due to Gram positive in children with atopic eczema. *Giornale Italiano di Dermatologia e Venereologia* 1993; 128:(6)LXXVII-LXXIV.
617. Carpenter CL, Jolly HW, McCormick GE et al. Combined steroid-antiinfective topical therapy in common dermatoses: a double-blind, multi-center study of iodochlorhydroxyquin-hydrocortisone in 277 patients. *Current Therapeutic Research, Clinical and Experimental* 1973; 15:(9)650-9.
618. Celedon JC. Use of antibacterials in infancy: clinical implications for childhood asthma and allergies. [41 refs]. *Treatments in Respiratory Medicine* 2004; 3:(5)291-4.
619. Darmstadt GL. Oral antibiotic therapy for uncomplicated bacterial skin infections in children. *Pediatric Infectious Disease Journal* 1997; 16:(2)227-40.
620. Erdmann SM. Mollusca contagiosa in an infant with atopic eczema. A therapeutic challenge. *Hautarzt* 2004; 55:(10)991-4.
621. Gross G. Systemic treatment of mollusca contagiosa with inosiplex. *Acta Dermato-Venereologica* 1986; 66:(1)76-80.
622. Holland KT, Bojar RA, and Cunliffe WJ. A comparison of the effect of treatment of atopic eczema with and without antimicrobial compounds. *Round Table Series - Royal Society of Medicine* 1995;(37)34-41.
623. Kryazheva SS, Ebralidze LK, Maltseva NN et al. Generalized herpes simplex in a child suffering from atopic dermatitis. *Vestnik Dermatologii i Venerologii* 1991; 67:(12)78-80.
624. Lear JT, English JSC, and Jones. Retrospective review of the use of azathioprine in severe atopic dermatitis. *Journal of the American Academy of Dermatology* 1996; 35:(4)642-3.
625. Leung DY. Infection in atopic dermatitis. *Current Opinion in Pediatrics* 2003; 15:(4)399-404.
626. Lever R. Clinical features of staphylococcal colonization in atopic dermatitis. *Round Table Series - Royal Society of Medicine* 1995;(37)19-21.
627. Lever R. Staphylococcal colonization in atopic dermatitis and the effect of topical mupirocin therapy. *British Journal of Dermatology* 1988; 119:(2)189-98.
628. Mentasti G. Treatment of skin lesions in children with a combination of a corticosteroid, an antibacterial and an antifungal agent. *Clinical Trials Journal* 1985; 22:(2)142-8.
629. Munoz-Perez MA. Acanthosis nigricans: a new cutaneous sign in severe atopic dermatitis and Down syndrome.[see comment]. *Journal of the European Academy of Dermatology and Venereology* 2001; 15:(4)325-7.
630. Nakata K. A high incidence of *Staphylococcus aureus* colonization in the external eyes of patients with atopic dermatitis. *Ophthalmology* 2000; 107:(12)2167-71.
631. Novak N. The role of infections in atopic dermatitis. *Revue Francaise d Allergologie et d Immunologie Clinique* 2005; 45:(1)54-7.
632. Ogawa T. Comparative study of staphylococcal flora on the skin surface of atopic dermatitis patients and healthy subjects. *Journal of Dermatology* 1994; 21:(7)453-60.

633. oz-Perez MA. Acanthosis nigricans: A new cutaneous sign in severe atopic dermatitis and Down syndrome. *Journal of the European Academy of Dermatology and Venereology* 2001; 15:(4)325-7.
634. Ravenscroft JC, Layton AM, Eady EA et al. Short-term effects of topical fusidic acid or mupirocin on the prevalence of fusidic acid resistant (FusR) *Staphylococcus aureus* in atopic eczema. *British Journal of Dermatology* 2003; 148:(5)1010-7.
635. Roll A. Microbial colonization and atopic dermatitis. [48 refs]. *Current Opinion in Allergy and Clinical Immunology* 2004; 4:(5)373-8.
636. Schmid-Grendelmeier P. The role of sensitization to *Malassezia sympodialis* in atopic eczema. *Chemical Immunology and Allergy* 2006;(91)98-109.
637. Schmidt KU. Eczema herpeticum - diagnosis and therapy. *Notfall Medizin* 1985; 11:(4)395-8.
638. Sugimoto K. New successful treatment with disinfectant for atopic dermatitis. *Dermatology* 1997; 195 Suppl 2:62-8.
639. Sugimoto K. The importance of bacterial superantigens produced by *Staphylococcus aureus* in the treatment of atopic dermatitis using povidone-iodine. *Dermatology* 2006; 212 Suppl 1:26-34.
640. Sugimoto K. The importance of disinfection therapy using povidone-iodine solution in atopic dermatitis. *Dermatology* 2002; 204 Suppl 1:63-9.
641. Svejgaard E. The role of microorganisms in atopic dermatitis. *Seminars in Dermatology* 1990; 9:(4)255-61.
642. Wollenberg A. Predisposing factors and clinical features of eczema herpeticum: A retrospective analysis of 100 cases. *Journal of the American Academy of Dermatology* 2003; 49:(2)198-205.
643. Yoshikawa K. Clinical evaluation of children's skin care product containing beta-thujaplicin (Hinokitil). Study for safety und usefulness of bean stalk series (BS-1210): Body shampoo, oil and medicated cream. *Skin Research* 1995; 37:(1)136-52.
644. Zabawski EJ, Cockerell CJ, Kahn MA et al. Treatment of atopic dermatitis with zafirlukast. *Dermatology Online Journal* 1999; 5:(2).
645. Ramsay CA, Savoie JM, Gilbert M et al. The treatment of atopic dermatitis with topical fusidic acid and hydrocortisone acetate. *Journal of the European Academy of Dermatology and Venereology* 1996; 7:(SUPPL. 1)S15-S22.
646. Higaki S, Kitagawa T, Morohashi M et al. Efficacy of Shiunko for the treatment of atopic dermatitis. *Journal of International Medical Research* 1999; 27:(3)143-7.
647. Goyal PK, Chandra J, Unnikrishnan G et al. Double blind randomized comparative evaluation of nimesulide and paracetamol as antipyretics. *Indian Pediatrics* 1998; 35:(6)519-22.
648. Whitefield M. Effectiveness of a new antimicrobial emollient in the management of eczema/dermatitis. *Journal of Dermatological Treatment* 1998; 9:(2)103-9.
649. Stalder JF, Fleury M, Sourisse M et al. Local steroid therapy and bacterial skin flora in atopic dermatitis. *British Journal of Dermatology* 1994; 131:(4)536-40.
650. Ling TC and Highet AS. Irritant reactions to an antiseptic bath emollient. *Journal of Dermatological Treatment* 2000; 11:(4)263-7.
651. Dahl MV. Atopic dermatitis: the concept of flare factors. *Southern Medical Journal* 1977; 70:(4)453-5.
652. Furue M, Terao H, Rikihisa W et al. Clinical dose and adverse effects of topical steroids in daily management of atopic dermatitis. *British Journal of Dermatology* 2003; 148:(1)128-33.
653. Williams H, Robertson C, Stewart A et al. Worldwide variations in the prevalence of symptoms of atopic eczema in the International Study of Asthma and Allergies in Childhood.[see comment]. *Journal of Allergy and Clinical Immunology* 1999; 103:(1 Pt 1)125-38.
654. Hanifin JM. Staphylococcal infections in patients with atopic dermatitis. *Archives of Dermatology* 1977; 113:(10)1383-6.
655. Hanifin JM. An overview of atopic dermatitis. *Dermatology Nursing* 2003; Suppl:6-9.
656. Loughnane J. When parents fear the use of topical steroids. *World of Irish Nursing* 2004; 12:(5)29.
657. Rosch A. Provocation factors of atopic eczema in childhood - A questionnaire-based survey. *Allergo Journal* 2004; 13:(3)198-203.
658. Williams JR, Burr ML, and Williams HC. Factors influencing atopic dermatitis-a questionnaire survey of schoolchildren's perceptions. *British Journal of Dermatology* 2004; 150:(6)1154-61.
659. Campbell DE. Cyclosporine restores cytokine imbalance in childhood atopic dermatitis. *Journal of Allergy and Clinical Immunology* 1997; 99:(6 Pt 1)857-9.
660. Ishii E and Yamamoto. Production of interleukin-5 and the suppressive effect of cyclosporin A in childhood severe atopic dermatitis. *Journal of Pediatrics* 1996; 128:(1)152-5.
661. Guarneri B. Cyclosporin A treatment of severe atopic dermatitis in a child. *Pediatric Dermatology* 1994; 11:(2)186.
662. Hsieh K. Thymopentin treatment in severe atopic dermatitis-clinical and immunological evaluations. *Archives of Disease in Childhood* 1992; 67:(9)1095-102.
663. De PY. Randomised double-blind placebo-controlled trial of local cyclosporin in atopic dermatitis. *Acta Dermato-Venereologica* 1989; 144 Supplementum:136-8.
664. Boguniewicz M. Recombinant gamma interferon in treatment of patients with atopic dermatitis and elevated IgE levels. *American Journal of Medicine* 1990; 88:(4)365-70.
665. De PY. Double-blind randomized placebo-controlled trial of local cyclosporine in atopic dermatitis. *Archives of Dermatology* 1989; 125:(4)570.
666. La RM. A randomized, double-blind, placebo-controlled crossover trial of systemic flunisolide in the treatment of children with severe atopic dermatitis. *Current Therapeutic Research, Clinical and Experimental* 1995; 56:(7)720-6.
667. Midelfart K. Combined UVB and UVA phototherapy of atopic eczema. *Dermatologica* 1985; 171:(2)95-8.
668. Gonzalez-Otero F. Cyclosporine in children with severe atopic dermatitis. *Journal of the American Academy of Dermatology* 1997; 36:(6 Pt 1)1029-30.
669. Berth-Jones J, Finlay AY, Zaki I et al. Cyclosporine in severe childhood atopic dermatitis: a multicenter study. *Journal of the American Academy of Dermatology* 1996; 34:(6)1016-21.
670. Lee S and Lee. The effect of cyclosporin in the treatment of childhood atopic dermatitis. *Korean Journal of Dermatology* 2000; 38:(4)466-71.
671. Lee SY, Shim JY, Kim JH et al. Cyclosporine treatment decreases the percentage of cutaneous lymphocyte antigen (CLA)(+)CD4(+) T cells in children with severe atopic dermatitis. *Allergy* 2004; 59:(10)1129-30.
672. Lee S, Tan AWH, and Giam YC. Cyclosporin in the treatment of severe atopic dermatitis: A retrospective study. *Annals of the Academy of Medicine, Singapore* 2004; 33:(3)311-3.
673. Tan BB, Lear JT, Gawkrödger DJ et al. Azathioprine in dermatology: a survey of current practice in the U.K. *British Journal of Dermatology* 1997; 136:(3)351-5.
674. Morison WL. Oral psoralen photochemotherapy of atopic eczema. *British Journal of Dermatology* 1978; 98:(1)25-30.
675. Hudson-Peacock MJ, Diffey BL, and Farr PM. Narrow-band UVB phototherapy for severe atopic dermatitis. *British Journal of Dermatology* 1996; 135:(2)332.
676. Atherton DJ, Cohen BL, Knobler E et al. Phototherapy for children. *Pediatric Dermatology* 1996; 13:(5)415-26.

677. Reynolds NJ. Phototherapy and systemic treatments. *Hospital Medicine (London)* 2002; 63:(11)657-61.
678. Yoshiike T. Topical psoralen photochemotherapy for atopic dermatitis: evaluation of two therapeutic regimens for inpatients and outpatients. *Journal of Dermatology* 1991; 18:(4)201-5.
679. Uetsu N. Treatment of persistent severe atopic dermatitis in 113 Japanese patients with oral psoralen photo-chemotherapy. *Journal of Dermatology* 2003; 30:(6)450-7.
680. Valkova S and Velkova. UVA/UVB phototherapy for atopic dermatitis revisited. *Journal of Dermatological Treatment* 2004; 15:(4)239-44.
681. Choi J. Comparison of 5% NaCl Solution and UVB to Mineral Oil and UVB in Patients with Atopic Dermatitis. *Korean Journal of Dermatology* 2003; 41:(10)1286-90.
682. Falk ES. UV-light therapies in atopic dermatitis. *Photo-Dermatology* 1985; 2:(4)241-6.
683. Snellman E and Rantanen. Cumulative UV radiation dose and outcome in clinical practice: Effectiveness of trioxsalen bath PUVA with minimal UVA exposure. *Photodermatology, Photoimmunology and Photomedicine* 2000; 16:(5)207-10.
684. Tran D. A retrospective review of PUVA therapy at the National Skin Centre of Singapore. *Photodermatology, Photoimmunology and Photomedicine* 2001; 17:(4)164-7.
685. Lebowitz M. Should we switch from combination UVA/UVB phototherapy units to narrowband UVB? *Photodermatology, Photoimmunology and Photomedicine* 2002; 18:(1)44-6.
686. Samson YS. Narrow-band ultraviolet B treatment for vitiligo, pruritus, and inflammatory dermatoses. *Photodermatology, Photoimmunology and Photomedicine* 2003; 19:(4)164-8.
687. Krutmann J. Ultraviolet-free phototherapy. *Photodermatology, Photoimmunology and Photomedicine* 2005; 21:(2)59-61.
688. Tuchinda C. UVA1 phototherapy for cutaneous diseases: an experience of 92 cases in the United States. *Photodermatology, Photoimmunology and Photomedicine* 2006; 22:(5)247-53.
689. Kuenzli S, Grimaitre M, Krischer J et al. Childhood Bullous Pempligoid: Report of a Case with Life-Threatening Course during Homeopathy Treatment. *Pediatric Dermatology* 2004; 21:(2)160-3.
690. Takwale A, Tan E, Agarwal S et al. Efficacy and tolerability of borage oil in adults and children with atopic eczema: randomised, double blind, placebo controlled, parallel group trial. *British Medical Journal* 2003; 327:(7428)1385.
691. Atherton DJ, Sheehan MP, Rustin MH et al. Treatment of atopic eczema with traditional Chinese medicinal plants. *Pediatric Dermatology* 1992; 9:(4)373-5.
692. Hederos C and Berg A. Epogam evening primrose oil treatment in atopic dermatitis and asthma. *Archives of Disease in Childhood* 1996; 75:(6)494-7.
693. Fung AY, Look PC, Chong LY et al. A controlled trial of traditional Chinese herbal medicine in Chinese patients with recalcitrant atopic dermatitis. *International Journal of Dermatology* 1999; 38:(5)387-92.
694. Schempp CM, Windeck T, Hezel S et al. Topical treatment of atopic dermatitis with St. John's wort cream—a randomized, placebo controlled, double blind half-side comparison. *Phytomedicine* 2003; 10 Suppl 4:31-7.
695. Armstrong NC and Ernst E. The treatment of eczema with Chinese herbs: a systematic review of randomized clinical trials. *British Journal of Clinical Pharmacology* 1999; 48:(2)262-4.
696. Inoue R, Motoyoshi F, Fukutomi O et al. Severe complications of folk remedies for atopic dermatitis. *Pediatric Asthma Allergy and Immunology* 1998; 12:(3)207-12.
697. Latchman YE, Xu XJ, Poulter LW et al. Chinese medical herbs in the treatment of atopic dermatitis. *Allergy and Clinical Immunology International* 2002; 14:(1)4-9.
698. Ramgolam V, Ang SG, Lai YH et al. Traditional Chinese medicines as immunosuppressive agents. *Annals of the Academy of Medicine, Singapore* 2000; 29:(1)11-6.
699. Stewart AC and Thomas SE. Hypnotherapy as a treatment for atopic dermatitis in adults and children. *British Journal of Dermatology* 1995; 132:(5)778-83.
700. Bath-Hextall F, Delamere F, Humphreys R, Williams HC, and Zhang W. Dietary supplements for established atopic eczema. (Cochrane Review). In: Cochrane Database of Systematic Reviews, Issue 1, 2006. Chichester: Wiley Interscience.
701. Fujiwaki T and Furusho K. The effects of rice bran broth bathing in patients with atopic dermatitis. *Acta Paediatrica Japonica* 1992; 34:(5)505-10.
702. Fukuda M, Kawada N, Kawamura H et al. Treatment for atopic dermatitis by acupuncture. *Advances in Experimental Medicine and Biology* 2004; 546:229-37.
703. Field T. Massage therapy for skin conditions in young children. *Dermatologic Clinics* 2005; 23:(4)717-21.
704. Scott J. Treatment by acupuncture: infantile eczema. *Journal of Chinese Medicine* 1994; 45:9-13.
705. Rosted P. A protocol for successful treatment of chronic skin diseases with acupuncture. *American Journal of Acupuncture* 1992; 20:(4)321-6.
706. Artik S and Ruzicka T. Complementary therapy for atopic eczema and other allergic skin diseases. *Dermatologic Therapy* 2003; 16:(2)150-63.
707. Centre for Reviews and Dissemination. Systematic review of treatments for atopic eczema. (Cochrane Review). In: Database of Abstracts of Reviews of Effects, Issue 1, 2006. Chichester: Wiley Interscience.
708. Breuner CC. Complementary medicine in pediatrics: A review of acupuncture, homeopathy, massage, and chiropractic therapies. *Current Problems in Pediatric and Adolescent Health Care* 2002; 32:(10)353-84.
709. Sokel B. A comparison of hypnotherapy and biofeedback in the treatment of childhood atopic eczema. *Contemporary Hypnosis* 1993; 10:(3)145-54.
710. Agner T. Compliance among patients with atopic eczema. [11 refs]. *Acta Dermato-Venereologica* 2005; Supplementum:(215)33-5.
711. Beattie PE and Lewis-Jones MS. Parental knowledge of topical therapies in the treatment of childhood atopic dermatitis. *Clinical and Experimental Dermatology* 2003; 28:(5)549-53.
712. Czyzewski DI and Lopez M. Clinical psychology in the management of pediatric skin disease. *Dermatologic Clinics* 1998; 16:(3)619-29.
713. Hon KL, Leung TF, Wong Y et al. A survey of bathing and showering practices in children with atopic eczema. *Clinical and Experimental Dermatology* 2005; 30:(4)351-4.
714. LoPresti L. Case study: enhancing compliance in an adolescent with atopic dermatitis. *Dermatology Nursing* 1992; 4:(3)198-200.
715. Paller AS, McAlister RO, Doyle JJ et al. Perceptions of physicians and pediatric patients about atopic dermatitis, its impact, and its treatment. *Clinical Pediatrics* 2002; 41:(5)323-32.
716. Poysa L, Remes K, Korppi M et al. Compliance with a dietary manipulation programme in families with infants prone to atopy. *Acta Paediatrica Scandinavica* 1988; 77:(4)563-8.
717. Renzi C, Picardi A, Abeni D et al. Association of dissatisfaction with care and psychiatric morbidity with poor treatment compliance.[see comment]. *Archives of Dermatology* 2002; 138:(3)337-42.

718. Roos TC. Psychosomatic aspects of skin care and therapy of atopic dermatitis with regard to the patient's dealing with himself and the parents' dealing with their child. *Dermatology and Psychosomatics* 2004; 5:(3)117-24.
719. Wahn U, Staab D, and Nilsson L. Atopic eczema: How to tackle the most common atopic symptom. *Pediatric Allergy and Immunology* 1999; 10:(12 Suppl)19-23.
720. Witkowski JA. Compliance: the dermatologic patient. [13 refs]. *International Journal of Dermatology* 1988; 27:(9)608-11.
721. Carroll CL, Balkrishnan R, Feldman SR et al. The burden of atopic dermatitis: impact on the patient, family, and society. *Pediatric Dermatology* 2005; 22:(3)192-9.
722. Holm EA, Esmann S, and Jemec GB. Patient education and morbidity in atopic eczema. *Dermatology Nursing* 2005; 17:(1)35-46.
723. King E. Patient education. Management of infantile eczema. *Australian Family Physician* 2005; 34:(5)341.
724. Lapsley P. The double benefits of educational programmes for patients with eczema. *British Medical Journal* 2006; 332:(7547)936.
725. Lynn SE, Lawton S, Newham S et al. Managing atopic eczema: the needs of children. *Professional Nurse* 1997; 12:(9)622-5.
726. Wieland S. Promoting health in children with atopic dermatitis. *Nurse Practitioner* 1998; 23:(4)86-8.
727. Singer A. Structured educational programs can improve the treatment of atopic dermatitis and quality of life of caregivers. *Journal of Pediatrics* 2007; 150:(1)116.
728. Arnetz BB. Endocrine and dermatological concomitants of mental stress. *Acta Dermato-Venereologica Supplementum*. 156:9-12.
729. Baum WF, Kloditz E, Lantzsch AM et al. Atopy and hyposomia: Review on the phenomenon of atopic growth retardation. *Allergologie* 2000; 23:(4)161-70.
730. Charman C and Williams H. The use of corticosteroids and corticosteroid phobia in atopic dermatitis. *Clinics in Dermatology* 2003; 21:(3)193-200.
731. Charman CR, Morris AD, and Williams HC. Topical corticosteroid phobia in patients with atopic eczema. *British Journal of Dermatology* 2000; 142:(5)931-6.
732. Gebauer S and Keller E. Growth impairment in view of pediatric dermatology. *Zeitschrift fur Hautkrankheiten* 1997; 72:(3)193-7.
733. Gelmetti C. Diet and atopic dermatitis. *Journal of the European Academy of Dermatology and Venereology* 14:(6)439-40.
734. Hanifin JM, Cooper KD, Ho VC et al. Guidelines of Care for Atopic dermatitis. *Journal of the American Academy of Dermatology* 2004; 50:(3)391-404.
735. Katz VL, Thorp JM, and Bowes WA. Severe symmetric intrauterine growth retardation associated with the topical use of triamcinolone. *American Journal of Obstetrics and Gynecology* 1990; 162:(2)396-7.
736. Katz VL, Thorp JM, and Bowes WA. Severe symmetric intrauterine growth retardation associated with the topical use of triamcinolone. *American Journal of Obstetrics and Gynecology* 1990; 162:(2)396-7.
737. Leung AKC. Managing childhood atopic dermatitis. *Advances in Therapy* 20:(3)129-37.
738. Musgrove K and Morgan JK. Infantile eczema: A long-term follow-up study. *British Journal of Dermatology* 1976; 95:(4)365-72.
739. Nicolaidou E and Katsambas AD. Antihistamines and steroids in pediatric dermatology. *Clinics in Dermatology* 2003; 21:(4)321-4.
740. Nomura I. Hypoproteinemia in severe childhood atopic dermatitis: a serious complication. *Pediatric Allergy and Immunology* 13:(4)287-94.
741. Shapiro GG. Corticosteroids in the treatment of allergic disease: principles and practice. [56 refs]. *Pediatric Clinics of North America* 1983; 30:(5)955-71.
742. Heuck C and Wolthers OD. Calculation of knemometric growth rates in group studies of children treated with exogenous glucocorticoids. *Annals of Human Biology* 1997; 24:(5)411-8.
743. Heuck C. Knemometry in children with atopic dermatitis treated with topical glucocorticoids. *Pediatric Dermatology* 1998; 15:(1)7-11.
744. Chu T. Audit of new referrals to the Hammersmith Hospital for atopic dermatitis over a two-month period. *Round Table Series - Royal Society of Medicine* 1999;(61)7-14.

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