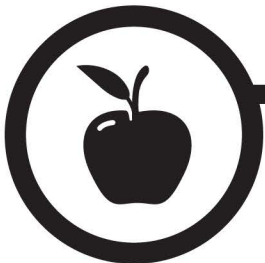




JESSE & JULIE  
**RASCH**  
FOUNDATION



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**CHILDHOOD ECZEMA**  
An Environmental Scan





















































































































The NY Times (US) ([health.nytimes.com/ref/health/healthguide/esn-eczema-ess.html](http://health.nytimes.com/ref/health/healthguide/esn-eczema-ess.html))  
Wikipedia ([en.wikipedia.org/wiki/Tacrolimus](http://en.wikipedia.org/wiki/Tacrolimus))  
Eating Fabulous - BLOG part of Health and Wellness Channel ([www.eatingfabulous.com](http://www.eatingfabulous.com))  
The Sydney Morning Herald (AU) ([www.smh.com.au](http://www.smh.com.au))  
Science Daily ([www.sciencedaily.com/releases/2008/07/080706194255.htm](http://www.sciencedaily.com/releases/2008/07/080706194255.htm))  
Diary of an Eczema Sufferer BLOG ([skinurghs.blogspot.com](http://skinurghs.blogspot.com))  
Under My Skin Children's book ([www.undermyskin.com](http://www.undermyskin.com))  
The Korea Times (KR) ([www.koreatimes.co.kr](http://www.koreatimes.co.kr))  
Newscientist ([www.newscientist.com](http://www.newscientist.com))  
Washington Post (US) ([www.washingtonpost.com](http://www.washingtonpost.com))  
Allergy an Clinical Immunology (Lippincott Williams & Wilkins) ([www.co-allergy.com](http://www.co-allergy.com))  
Modern Medicine ([www.modernmedicine.com](http://www.modernmedicine.com))  
3NEWS (NZ) ([www.3news.co.nz/Home/tabid/183](http://www.3news.co.nz/Home/tabid/183))  
Solve Eczema Blog ([www.solveeczema.org](http://www.solveeczema.org))  
WAtoday (AU) ([www.watoday.com.au](http://www.watoday.com.au))  
Children's Hospital Medical Center of Cincinnati's Skin Sciences Institute ([www.cincinnatichildrens.org](http://www.cincinnatichildrens.org))  
The Globe and Mail (CA) ([www.theglobeandmail.com](http://www.theglobeandmail.com))  
U.S.News ([www.usnews.com](http://www.usnews.com))  
Eczema Natural Treatment ([www.eczemaskintreatment.com](http://www.eczemaskintreatment.com))  
Hubpages ([www.hubpages.com/search/eczema](http://www.hubpages.com/search/eczema))  
6minutes.com.au ([www.6minutes.com.au](http://www.6minutes.com.au))  
Leap Study (UK) ([www.leapstudy.co.uk](http://www.leapstudy.co.uk))  
14wfie.com ([www.14wfie.com](http://www.14wfie.com))  
BMJ medical publication of the year ([www.bmj.com/cgi/eletters/324/7350/1376#22854](http://www.bmj.com/cgi/eletters/324/7350/1376#22854))  
Vitality Magazine - Toronto's monthly wellness journal (CA) ([www.vitalitymagazine.com](http://www.vitalitymagazine.com))  
Interscience Wiley ([www3.interscience.wiley.com](http://www3.interscience.wiley.com))  
European Respiratory Journal (EU) ([www.erj.ersjournals.com/cgi/content/full/29/6/1169](http://www.erj.ersjournals.com/cgi/content/full/29/6/1169))  
USA TODAY ([www.usatoday.com](http://www.usatoday.com))  
Robert Helmer The Children's Clinic (CA) ([www.roberthelmer.ca/eczema.html](http://www.roberthelmer.ca/eczema.html))  
HealthDay ([www.healthday.com/Article.asp?AID=621168](http://www.healthday.com/Article.asp?AID=621168))  
Archives of Dermatology ([archderm.ama-assn.org](http://archderm.ama-assn.org))  
Itchy kids (NZ) ([www.itchykids.org.nz](http://www.itchykids.org.nz))  
Center Watch Studies and clinical trials ([search.centerwatch.com](http://search.centerwatch.com))  
ECZEMA.NET Christine Nevada Naturopathic eczema researcher ([www.eczema.net](http://www.eczema.net))  
Internet health library ([www.internethealthlibrary.com](http://www.internethealthlibrary.com))  
The Cochrane Collaboration ([www.cochrane.org](http://www.cochrane.org))  
Science Links (JP) ([www.sciencelinks.jp](http://www.sciencelinks.jp))  
Ingenta Connect - Pediatric Allergy and Immunology ([www.ingentaconnect.com](http://www.ingentaconnect.com))  
Cure Hunter Precision Medical Data Mining ([www.curehunter.com](http://www.curehunter.com))  
Springer link ([www.springerlink.com](http://www.springerlink.com))  
The Journal of Allergy and Clinical Immunology ([www.jacionline.org](http://www.jacionline.org))  
PubMed ([www.ncbi.nlm.nih.gov/pubmed](http://www.ncbi.nlm.nih.gov/pubmed))  
Biomedicine ([www.bio-medicine.org](http://www.bio-medicine.org))  
The Agency for Toxic Substances and Disease (US) ([www.atsdr.cdc.gov](http://www.atsdr.cdc.gov))  
Medicalnewstoday.com ([www.medicalnewstoday.com/articles/95817.php](http://www.medicalnewstoday.com/articles/95817.php))  
ISAAC, the International Study of Asthma and Allergies in Childhood (NZ) ([isaac.auckland.ac.nz](http://isaac.auckland.ac.nz))  
Allergy.immunodefence.com ([allergy.immunodefence.com](http://allergy.immunodefence.com))  
Femail.com.au (AU) ([www.femail.com.au](http://www.femail.com.au))  
Holistic Dermatology ([www.holisticdermatology.com](http://www.holisticdermatology.com))  
University of Melbourne Blogs (AU) ([blogs.unimelb.edu.au](http://blogs.unimelb.edu.au))  
University of Melbourne NEWS (AU) ([uninews.unimelb.edu.au](http://uninews.unimelb.edu.au))  
Resource List ([www.eczemainformant.com](http://www.eczemainformant.com))

Allergy & Asthma Network Mothers of Asthmatics (US) ([www.aanma.org/publications](http://www.aanma.org/publications))  
MD(e) MedIndia Networking for Health (IN) ([www.medindia.net](http://www.medindia.net))

## **PRODUCTS**

Skin MD Natural™ Lotion ([www.skinmdnatural.com](http://www.skinmdnatural.com))  
Derma Silk (UK) clothing ([www.dermasilk.co.uk](http://www.dermasilk.co.uk))  
Emily Skin Soothers (all natural) (US) ([www.emilyskinsoothers.com](http://www.emilyskinsoothers.com))  
Drwheatgrass.com ([www.drwheatgrass.com](http://www.drwheatgrass.com))  
Synergyhealth ([www.synergyhealthplc.com](http://www.synergyhealthplc.com))  
Skin scientifica ([www.skinscientifica.com/SkinScientifica/Home.asp](http://www.skinscientifica.com/SkinScientifica/Home.asp))  
Ellen Jay Health and Beauty Ltd (AU) ([www.ellenjay.com.au](http://www.ellenjay.com.au))  
Cotton Comfort ([www.eczemaclighting.com](http://www.eczemaclighting.com))  
Pharmaceutical Specialties Inc. (US) ([www.psico.com](http://www.psico.com))  
Eczema Solution ([www.eczemasolution.com](http://www.eczemasolution.com))

## APPENDIX E

### KEY INFORMANT INTERVIEW GUIDE

#### GOALS OF THE KEY INFORMANT INTERVIEWS

- I. To elicit expert opinions regarding research priorities in the area of eczema and specifically childhood eczema
- II. To elicit expert opinions regarding resources required in the area of childhood eczema
- III. To elicit expert opinions on where financial resources are best suited in the area of childhood eczema
- IV. To expand the social network of contacts in the area of eczema and specifically childhood eczema

#### SPECIFIC QUESTIONS ASKED OF INDIVIDUALS

<b>1</b>	[Where appropriate] How long have you been involved in the area of childhood eczema? or how long has the organization been involved in eczema activities? (in some cases this is self evident)
<b>2a.</b>	In Your Expert Opinion, What do you feel are important research areas to consider at this time regarding eczema?
<b>2b.</b>	Again focusing on research areas, what do you feel is specifically a priority at this time for children?
<b>3a.</b>	When thinking about childhood eczema, what do you feel are important areas that are currently under-resourced?
<b>3b.</b>	Of the areas you identified as under-resourced, which do you personally feel is a priority? Please explain why?
<b>4</b>	In Your Expert Opinion, do you feel there are particular areas that are not prudent to fund at this time? If so, can you explain why? [Perhaps some areas are adequately resourced?]
<b>5</b>	Do you have an opinion on any areas that have sufficient resources at this time thus areas that would be a good choice to shy away from allowing our resources to be directed elsewhere?
<b>6</b>	Do you feel it would be important to make contact with any other researchers or colleagues you have in this area to find out more about what the priorities are in childhood eczema or to better understand where resources are needed?
<b>7</b>	Is there any other information you feel would be important for us to consider in the area of childhood eczema when setting up an endowment fund at this time?



## KEY INFORMANT INTERVIEW GUIDE CONTINUED

	<b>SPECIFIC QUESTIONS ASKED FOR ORGANIZATIONS</b>
<b>1</b>	How long has your organization been involved in the area of Childhood Eczema?
<b>2</b>	How would you identify your primary audience (e.g., patients, caregivers etc?)
<b>3</b>	Can you specify the types of programs you have been involved with concerning childhood eczema? Perhaps you have an organizational document that could provide this information?
<b>4</b>	Do you have impact measures for how successful your programs were or how they meet their intended targets?
<b>5</b>	Does your organization routinely complete evaluations of programs/research conducted?
<b>6</b>	Do your programs/activities pertaining to childhood eczema receive core funding? If so, who are your major funding agencies/sources?
<b>7</b>	Do your programs/activities pertaining to childhood eczema receive grant funding? If so, who are your major grant funding agencies/sources?
<b>8</b>	Are you able to provide access to an E-copy or hard copy of your organization's annual report?
<b>9</b>	What other information do you feel is important for my client to know about your organization surrounding your work in the area of childhood eczema?

## APPENDIX F

### TYPES OF ATOPIC DERMATITIS

Type of Atopic Dermatitis	Brief Description/Characteristics
<b>Atopic Eczema</b>	Chronic skin disease Itchy, red, irritated skin
<b>Dyshidrotic eczema (pompholyx)</b>	Term is used to describe either a specific disease or a pattern of presentation Hand are most affected Most often appears on sides of both toes and fingers Characterized with blisters Commonly associated with extreme itch
<b>Seborrheic dermatitis</b>	Presentation affected by where it appears on the body On scalp area will be red and most often scaly When on remainder of the body appears moist
<b>Perioral-nasal-ocular dermatitis</b>	Only presents around the mouth, nose and eyes Very often thought to be Rosacea
<b>Discoid eczema</b>	Characteristic: coin shaped (1-3cm) appearance Also known as nummular Can appear anywhere on the body Has both moist (weeping) and dry, scaly characteristics Severe itching often present
<b>Neurodermatitis</b>	Characterized by scaly patches Often occurs on head, lowers legs, forearms and wrists Initiated by a localized itch such as a bite
<b>Allergic Contact Eczema</b>	Skin is exposed to irritant through contact Red, weepy and itchy Immune system recognizes something is foreign e.g., poison ivy
<b>Contact Eczema</b>	Occurs when skin is exposed to an allergen or irritant e.g., chemical, cleaning product(s) Localized to one specific location Red, itchy and burning skin

## APPENDIX G

### ENVIRONMENTAL TRIGGERS

- a. Food Allergies
- b. Pollen
- c. Mold
- d. Dust/Fine Dust
- e. Dust Mites
- f. Pet Dander
- g. Grasses
- h. Plant Pollen
- i. Particular Fabrics (e.g., wool)
- j. Various Personal Hygiene Products (e.g., products with alcohol)
- k. Air Quality (Low Humidity, Ground level ozone, nitrogen dioxide etc.)
- l. Excessive Heat in the Environment
- m. Air Conditioning
- n. Personal emotional stress
- o. Tobacco Smoke
- p. Sweating
- q. Dry Skin
- r. Numerous household and environmental chemicals (e.g., laundry detergents, cosmetics)

# **APPENDIX H**

## **COMMON TREATMENTS FOR ECZEMA**

### **PRESCRIPTION MEDICATION**

Steroid Topical Applications (includes cortisone creams)

Steroid-free Topical Applications (used for skin barrier repair)

Calcineurin Inhibitors-Topical Application (Pimecrolimus cream, Tacrolimus Ointment)

Antibiotics

Corticosteroids

Phototherapies (exposure to ultraviolet light)

Cycloporine (only prescribed in most severe cases)

Behaviour Modification (avoiding scratching and increasing health literacy regarding moisturizers, medication adherence)

Interferon Gamma (injections to stimulate immune system)

Mycophenolate Mofetil (only in most severe cases, suppresses the immune system)

### **NON-PRESCRIPTION MEDICATION**

Coal Tar Applications (various preparations)

Skin moisturizers/Emollients (with ceramide)

Antihistamines

Application of Cool Compresses

Dietary Supplements, Herbs and Teas (e.g., evening primrose oil, probiotics, VitB6 and Chinese Herbal Medicine)

## APPENDIX I

### SNAPSHOT OF GLOBAL FUNDING INITIATIVES

#### GRANT INFORMATION (~ 6 years where available)

Date	Geographical Area	Organization (Received)	Area of Interest	Grant Agency/Amount	Investigator
<b>CANADA</b>					
Canadian Institutes of Health Research					
2007-09	ON	McMaster University	Canadian Birth Cohort: Indoor air and the development of asthma and allergy	2007-08 \$872,000 2008-09 \$1,300,000	Sears, Malcolm Raymond
2007-09	QC	McGill University	Statistical methods for causal inference in longitudinal studies with non-compliance and missing data	2007-08 \$21,448 2008-09 \$85,794	Moodie, Erica Eleanor Margret
2007-09	BC	University of British Columbia	CIHR skin research training centre	2007-08 \$300,000 2008-09 \$300,000	Dutz, Jan Peter ; Esdaile, John Margrave ; Ghahary, Aziz ; Larjava, Hannu Sakari ; Li, Gang ; Lui, Harvey ; Shapiro, Jerry ; Zhou, Youwen Dutz, Jan Peter
2006-09	BC	The Child & Family Research Institute	Tolerance induction by transcutaneous immunization through calcipotriol treated skin	2006-07 \$50,852 2007-08 \$101,702 2008-09 \$101,702	Dutz, Jan Peter
2006-09	ON	University of Waterloo	Design and development of targeted gene delivery systems	2006-07 \$75,000 2007-08 \$300,000 2008-09 \$300,000	Foldvari, Marianna ; Grochulski, Pawel ; Haas, Thomas A. ; Hull, Peter Robin ; Nazarali, Adil J. Peng, Zhikang
2004-08	MB	University of Manitoba	Active anti-igE and -th2 cytokine strategy in downregulation of allergic responses	2004-05 \$49,680 2005-06 \$99,360 2006-07 \$15,818 2007-08 \$133,222	Peng, Zhikang

Date	Geographical Area	Organization (Received)	Area of Interest	Grant Agency/Amount	Investigator
<b>CANADA</b>					
Canadian Institutes of Health Research					
2003-08	QC	Université de Montréal	Asthma during pregnancy and the incidence of asthma in the offspring	2003-04 \$32,390 2004-05 \$7,568 2005-06 \$66,987 2006-07 \$70,025 2007-08 \$23,800	Blais, Lucie ; Martel, Marie-Josée
2003-07	MB	University of Manitoba	The causal relationship between infection and allergic disease	2003-04 \$30,000 2004-05 \$35,000 2005-06 \$35,000 2006-07 \$5,000	Bilenki, Laura Cari-Ann
2003-06	BC	B.C. Research Institute for Children's & Women's Health (Vancouver)	Tolerance induction by skin immunization	2003-04 \$24,982 2004-05 \$59,956 2005-06 \$34,974	Dutz, Jan Peter
<b>UNITED STATES</b>					
2008	ID	Indiana University-Purdue University	Stat6 in Atopic Dermatitis	\$256,834	Kaplan, Mark
2008	MD	Johns Hopkins University	IL-13 Atopic Dermatitis and Its Relationship with the Development of Asthma	\$410,000	Zheng, Tao
National Institute of Health (2003 - 2009)					
2008	MA	Children's Hospital Corporation	Immunologic mechanisms of atopic dermatitis	\$356,083	Raif S Geha
2008	OH	Children's Hospital Medical Center	Role of il-13 receptors in atopic dermatitis	\$316,050	Gurjit K Khurana Hershey
2008	ID	Indiana University	Airway as target organ in infants with atopic dermatitis	\$330,661	Robert S Tepper
2008	ID	Indiana University	Pathogenesis of atopic dermatitis	\$955,752	Mark H Kaplan
2008	CA	Northern California Institute For Research & Education	Risk factors for eczema vaccinatum in atopic dermatitis	\$383,693	Walter M Holleran
2008	WA	Syntrix Biochip Inc	Aminopterin for the treatment of severe recalcitrant atopic dermatitis	\$293,574	Stuart J Kahn

Date	Geographical Area	Organization (Received)	Area of Interest	Grant Agency/Amount	Investigator
<b>UNITED STATES</b>					
National Institute of Health (2003 - 2009)					
2008	CA	Northern California Institute For Research & Education	Risk factors for eczema vaccinatum in atopic dermatitis	\$383,693	Walter M Holleran
2008	MA	Children's Hospital Boston	Role of WASP/WIP Complex in T Cell Function	Funding not disclosed	Geha, Raif
2008	OH	Children's Hospital Med Ctr	Interleukin-9 in experimental intestinal anaphylaxis	Funding not disclosed	Hogan, Simon
2008	NC	University Of North Carolina Chapel Hill	Community Participation Research of Breastfeeding Disparities in African American	Funding not disclosed	Ringel-Kulka, Tamar
2007-08	OR	Siga Technologies, Inc.	ST-246 treatment of smallpox vaccine-related adverse events in murine models	Funding not disclosed	Grosenbach, Douglas
2006-08	MD	Johns Hopkins University	Efficacy of ige in Mediating Allergic Reactions in Vivo	Funding not disclosed	Macglashan, Donald
2006-08	VA	Virginia Commonwealth University	Sphingosine-1-Phosphate, A Novel Mediator of Human Skin Mass Cell Functions	Funding not disclosed	Oskeritzian, Carole
2006-08	CT	Yale University	Th2 responses in the cutaneous environment	Funding not disclosed	Herrick, Christina
2005-08	NC	Wake Forest University Health Sciences	The Wake Forest and Harvard Center for Botanical Lipids	Funding not disclosed	Chilton, Floyd
2005-08	MI	Michigan State University	Genetic & epidemiologic cohort study of asthma & allergy	Funding not disclosed	Ewart, Susan
2005-08	MA	Brigham And Women's Hospital	Gene by Environment Interactions in Asthma and Allergy	Funding not disclosed	Litonjua, Augusto
2005-08	NY	Mount Sinai School Of Medicine Of Nyu	Immune Mechanisms-- Observational Study of Food Allergy	Funding not disclosed	Sicherer, Scott











<b>Date</b>	<b>Geographical Area</b>	<b>Organization (Received)</b>	<b>Area of Interest</b>	<b>Grant Agency/Amount</b>	<b>Investigator</b>
<b>AUSTRALIA</b>					
NHMRC Funded Research into Eczema (Atopic Dermatitis) 2003-08					
2003-05	WA	University of Western Australia	Allergy prevention studies: effects of early postnatal probiotic supplementation on infant immune responses	2003 \$19,659 2004 \$20,484 2005 \$10,447	Ms Angie L Taylor
<b>NEW ZEALAND</b>					
New Zealand Health Research Council					
2006	Lower North Island	Massey University; Professor Jeroen Douwes	Hygiene Hypothesis; Rural versus Urban Living	2006 \$800,000	Prof. Jeroen Douwes
<b>SWEDEN</b>					
National Institute of Health USA					
2003	Stockholm	Karolinska Institute	A Twin Study of Chronic Fatigue Syndrome in Sweden	Funding not disclosed	Pedersen, Nancy