Infants & children

# Introduction

Expert group:

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Time span:

January 2000 – December 2011

Comments:

The search was performed in June 2011. A complementary search was conducted at the end of January 2012 covering the period between the first search until the end of December 2011. The two main research questions where split into six queries, three for each. The substance/exposure and study design / general criteria portions were the same for all queries.

## Search terms

|  |  |  |
| --- | --- | --- |
| ***Exposure / Intervention*** | | |
| ***Subject*** | **Search terms** | **Query name/number** |
| *Breast feeding* | "Breast Feeding"[Mesh]  "Breast Feeding"[Ti/Ab]  "Breastfeeding"[Ti/Ab]  "Milk, Human"[Mesh]  "Breast Milk"[Ti/Ab] | 1 |
| *Infant formula & baby food* | "Infant Formula"[Mesh]  "Infant formula"[Ti/Ab]  "Infant Food"[Mesh]  "Formula food"[Ti/Ab]  "Formula feeding"[Ti/Ab]  "Infant Food"[Mesh]  "Infant food"[Ti/Ab]  "Baby Food"[Ti/Ab] | 1 |

|  |  |  |
| --- | --- | --- |
| ***Outcome*** | | |
| ***Subject / Question(s)*** | **Search terms** | **Query name/number** |
| *Weight & growth* | "Growth and Development"[Mesh]  "Growth"[Mesh]  "Growth"[Ti/Ab]  "Overweight"[Mesh]  "Body Mass Index"[Mesh]  "Body Mass Index"[Ti/Ab]  "BMI"[Ti/Ab]  "Body Weight"[Mesh]  "Body Height"[Mesh]  "Weight"[Ti/Ab]  "Child Development"[Mesh]  "Obese"[Ti/Ab]  "Obesity"[Ti/Ab] | 1 |
| *Asthma & allergy* | "Asthma"[Mesh]  "Asthma"[Ti/Ab]  "Hypersensitivity"[Mesh]  "Allergy"[Ti/Ab]  "Allergies"[Ti/Ab] | 1 |
| *Diabetes* | "glucose tolerance"[ Ti/Ab]  "Insulin Resistance"[Mesh]  "Diabetes Mellitus, Type 2"[Mesh]  "Type 2 Diabetes"[Ti/Ab] | 1 |
| *Cardiovascular system* | "Cardiovascular Diseases"[Mesh]  "Blood Pressure"[Mesh]  "Blood Pressure"[Ti/Ab] | 1 |
| *Respiratory disease* | "Respiratory Tract Diseases"[Mesh]  "Respiratory Tract Infections"[Mesh]  "Respiratory tract"[Ti/Ab] | 1 |
| *Cancer* | "Neoplasms"[Mesh]  "Cancer"[Ti/Ab] | 1 |
| *Nutrition* | "Nutritional Status"[Mesh]  "Nutritional Status"[Ti/Ab] | 1 |
| *Gastrointestinal infections* | "Diarrhea"[Mesh]  "Diarrhea"[Ti/Ab]  "Gastrointestinal Diseases"[Mesh]  Gastrointestinal Infection[Ti/Ab] | 1 |
| *Cognitive development* | "Executive Function"[Mesh]  "Cognitive Function"[Ti/Ab]  "neurological development"[Ti/Ab] | 1 |
| *Study types* | "Cross-Sectional"[Ti/Ab]  "Cohort"[Ti/Ab]  "Cochrane"[Ti/Ab]  "Systematic Review"[Ti/Ab]  "Randomized Controlled"[Ti/Ab]  "Randomised Controlled"[Ti/Ab]  "Meta-analysis"[Ti/Ab] | 1 |
| *(Other)* | "Communicable Diseases"[Mesh]  "Otitis Media"[Mesh]  "Osteoporosis"[Mesh] | 1 |
| *Exclude: prematurely born infants* | NOT "Infant, Premature"[Mesh] | 1 |
| *Exclude: non-European/”Western” countries* | NOT "Asia"[Mesh]  "Africa"[Mesh]  "South America"[Mesh]  "Central America"[Mesh]  "Mexico"[Mesh]  "Latin America"[Mesh]  "Caribbean Region"[Mesh] | 1 |

# Eligibility criteria

[General comments here.]

## General criteria

Time span: [timespan for publication] 2000-onwards

Language: [Language(s) allowed] English, Swedish, Finnish; Norwegian, Icelandic, Danish

Publication type(s): [i.e. articles, reports, etc.]

Study type(s): [RCT, CCT, etc.] "Cross-Sectional", "Cohort", "Cochrane", "Systematic Review","Randomized Controlled", "Randomised Controlled", "Meta-analysis"

Subjects: Only human studies, no animal, no in-vitro

# Search strategy

[This section contains the queries constructed, formatted as tables for easy reference and to provide a visual presentation of the structure of the query. Any comments, explanations of abbreviations, etc. can be inserted here. If possible, avoid breaking tables over several pages, as this makes them much harder to read.]

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Query:** RQ 1  **Date:** june 2011 | **Database:** PubMed/Medline | | | | **Summary:** Breastfeeding | | |
| "Breast Feeding"[Mesh] OR  "Breast Feeding"[Ti/Ab] OR  "Breastfeeding"[Ti/Ab] OR  "Milk, Human"[Mesh] OR  "Breast Milk"[Ti/Ab] OR  "Infant Formula"[Mesh] OR  "Infant formula"[Ti/Ab] OR  "Infant Food"[Mesh] OR  "Formula food"[Ti/Ab] OR  "Formula feeding"[Ti/Ab] OR  "Infant Food"[Mesh] OR  "Infant food"[Ti/Ab] OR  "Baby Food"[Ti/Ab] | AND | "Growth and Development"[Mesh] OR  "Growth"[Mesh] OR  "Growth"[Ti/Ab] OR  "Overweight"[Mesh] OR  "Body Mass Index"[Mesh] OR  "Body Mass Index"[Ti/Ab] OR  "BMI"[Ti/Ab] OR  "Body Weight"[Mesh] OR  "Body Height"[Mesh] OR  "Weight"[Ti/Ab] OR  "Child Development"[Mesh] OR  "Obese"[Ti/Ab] OR  "Obesity"[Ti/Ab] OR  "Asthma"[Mesh] OR  "Asthma"[Ti/Ab] OR  "Hypersensitivity"[Mesh] OR  "Allergy"[Ti/Ab] OR  "Allergies"[Ti/Ab] OR  "Communicable Diseases"[Mesh] OR  "Otitis Media"[Mesh] OR  "Respiratory Tract Diseases"[Mesh] OR  "Respiratory Tract Infections"[Mesh] OR  "Respiratory tract"[Ti/Ab] OR  "Diarrhea"[Mesh] OR  "Diarrhea"[Ti/Ab] OR  "Gastrointestinal Diseases"[Mesh] OR  Gastrointestinal Infection[Ti/Ab] OR  "Nutritional Status"[Mesh] OR  "Nutritional Status"[Ti/Ab] | OR | "Executive Function"[Mesh] OR  "Cognitive Function"[Ti/Ab] OR  "neurological development"[Ti/Ab] OR  "Cardiovascular Diseases"[Mesh] OR  "Blood Pressure"[Mesh] OR  "Blood Pressure"[Ti/Ab] OR  "glucose tolerance"[ Ti/Ab] OR  "Insulin Resistance"[Mesh] OR  "Maternal health"[Ti/Ab] OR  "pre-pregnancy weight"[Ti/Ab] OR  "Diabetes Mellitus, Type 2"[Mesh] OR  "Type 2 Diabetes"[Ti/Ab] OR  "Neoplasms"[Mesh] OR  "Cancer"[Ti/Ab] OR  "Osteoporosis"[Mesh] OR  "Depression, Postpartum"[Mesh] OR  "Postpartum depression"[Ti/Ab] | AND | Meta-Analysis[ptyp] OR  Randomized Controlled Trial[ptyp] OR  "Clinical Trial" [Publication Type] OR  "Cross-Sectional Studies"[Mesh] OR  "Cohort Studies"[Mesh] OR  "Cross-Sectional"[Ti/Ab] OR  "Cohort"[Ti/Ab] OR  "Cochrane"[Ti/Ab] OR  "Systematic Review"[Ti/Ab] OR  "Randomized Controlled"[Ti/Ab] OR  "Randomised Controlled"[Ti/Ab] OR  "Meta-analysis"[Ti/Ab]  NOT ("Infant, Premature"[Mesh])  NOT ("Asia"[Mesh] OR "Africa"[Mesh] OR "South America"[Mesh] OR "Central America"[Mesh] OR "Mexico"[Mesh] OR "Latin America"[Mesh] OR "Caribbean Region"[Mesh]) | |
| **Additional limits:** 2000- , humans only, English and Nordic languages, | | | | | | | **# of hits:** |

# Search Strings

## RQ 1 (Breastfeeding)

( "Breast Feeding"[Mesh] OR "Breast Feeding"[Title/Abstract] OR "Breastfeeding"[Title/Abstract] OR "Milk, Human"[Mesh] OR "Breast Milk"[Title/abstract] OR "Infant Formula"[Mesh] OR "Infant formula"[Title/abstract] OR "Infant Food"[Mesh] OR "Formula food"[Title/abstract] OR "Formula feeding"[Title/abstract] OR "Infant Food"[Mesh] OR "Infant food"[Title/abstract] OR "Baby Food"[Title/abstract] ) AND ( "Growth and Development"[Mesh] OR "Growth"[Mesh] OR "Growth"[Title/abstract] OR "Overweight"[Mesh] OR "Body Mass Index"[Mesh] OR "Body Mass Index"[Title/abstract] OR "BMI"[Title/abstract] OR "Body Weight"[Mesh] OR "Body Height"[Mesh] OR "Weight"[Title/abstract] OR "Child Development"[Mesh] OR "Obese"[Title/abstract] OR "Obesity"[Title/abstract] OR "Asthma"[Mesh] OR "Asthma"[Title/Abstract] OR "Hypersensitivity"[Mesh] OR "Allergy"[Title/abstract] OR "Allergies"[Title/abstract] OR "Communicable Diseases"[Mesh] OR "Otitis Media"[Mesh] OR "Respiratory Tract Diseases"[Mesh] OR "Respiratory Tract Infections"[Mesh] OR "Respiratory tract"[Title/abstract] OR "Diarrhea"[Mesh] OR "Diarrhea"[Title/abstract] OR "Gastrointestinal Diseases"[Mesh] OR Gastrointestinal Infection[Title/abstract] OR "Nutritional Status"[Mesh] OR "Nutritional Status"[Title/abstract] OR "Executive Function"[Mesh] OR "Cognitive Function"[Title/abstract] OR "neurological development"[Title/abstract] OR "Cardiovascular Diseases"[Mesh] OR "Blood Pressure"[Mesh] OR "Blood Pressure"[Title/abstract] OR "glucose tolerance"[ Title/abstract] OR "Insulin Resistance"[Mesh] OR "Maternal health"[Title/abstract] OR "pre-pregnancy weight"[Title/abstract] OR "Diabetes Mellitus, Type 2"[Mesh] OR "Type 2 Diabetes"[Title/abstract] OR "Neoplasms"[Mesh] OR "Cancer"[Title/abstract] OR "Osteoporosis"[Mesh] OR "Depression, Postpartum"[Mesh] OR "Postpartum depression"[Title/abstract] ) NOT ("Infant, Premature"[Mesh]) NOT ("Asia"[Mesh] OR "Africa"[Mesh] OR "South America"[Mesh] OR "Central America"[Mesh] OR "Mexico"[Mesh] OR "Latin America"[Mesh] OR "Caribbean Region"[Mesh]) NOT ("animals"[MeSH Terms:noexp] NOT "humans"[MeSH:noexp]) AND (English[lang] OR Danish[lang] OR Norwegian[lang] OR Swedish[lang]) AND ("2000/01/01"[PDAT] : "2011/06/30"[PDAT]) AND ( Meta-Analysis[ptyp] OR Randomized Controlled Trial[ptyp] OR "Clinical Trial" [Publication Type] OR "Cross-Sectional Studies"[Mesh] OR "Cohort Studies"[Mesh] OR "Cross-Sectional"[Title/abstract] OR "Cohort"[Title/abstract] OR "Cochrane"[Title/abstract] OR "Systematic Review"[Title/abstract] OR "Randomized Controlled"[Title/abstract] OR "Randomised Controlled"[Title/abstract] OR "Meta-analysis"[Title/abstract] )