Documentation of search strategies

University Library search consultation group

Date: 20 September 2021

Topic/research question: Supplementation with long chain n3 fatty acids during pregnancy, lactation or infancy in relation to risk of asthma and allergy during childhood

Name of researcher(s): Agneta Åkesson & Linnea Bärebring

Librarian(s): Sabina Gillsund & Narcisa Hannerz

Databases:

1. Medline (Ovid)
2. Embase (embase.com)
3. Cochrane (Wiley
4. Scopus (Elsevier)

Total number of hits:

* Before deduplication: 2,419
* After deduplication: 1,126

Comments:

1. Medline

|  |  |
| --- | --- |
| Interface: Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily  Date of Search: 20 September 2021  Number of hits: 454  Comment: In Ovid, two or more words are automatically searched as phrases; i.e. no quotation marks are needed | Field labels   * exp/ = exploded MeSH term * / = non exploded MeSH term * .ti,ab,kf. = title, abstract and author keywords * adjx = within x words, regardless of order * \* = truncation of word for alternate endings |
| Database(s): **Ovid MEDLINE(R) and Epub Ahead of Print, In-Process, In-Data-Review & Other Non-Indexed Citations and Daily**1946 to September 20, 2021 Search Strategy:   |  |  |  | | --- | --- | --- | | **#** | **Searches** | **Results** | | 1 | exp Pregnancy/ | 935377 | | 2 | Pregnant Women/ | 10432 | | 3 | exp Pregnancy Trimesters/ | 42588 | | 4 | Peripartum Period/ | 1428 | | 5 | Fetus/ | 79997 | | 6 | Postpartum Period/ | 27551 | | 7 | exp Lactation/ | 44576 | | 8 | exp Breast Feeding/ | 40316 | | 9 | Milk, Human/ | 20644 | | 10 | exp Infant/ | 1186920 | | 11 | exp Maternal Nutritional Physiological Phenomena/ | 6605 | | 12 | Infant Nutritional Physiological Phenomena/ | 15687 | | 13 | (antenatal\* or ante natal\* or birth\* or child bearing or childbearing or childbirth\* or fetal or fetus\* or foetal or foetus\* or gestation\* or maternal\* or perinatal\* or peri natal\* or peripartum or peri partum or postpartum or post partum or prematur\* or preterm or prenatal\* or pre natal\* or pregnan\* or puerperium).ti,ab,kf. | 1346831 | | 14 | (baby or babies or infant\* or infancy or neonat\* or newborn\* or offspring).ti,ab,kf. | 896151 | | 15 | (breast feed\* or breastfeed\* or breastfed or breast fed or breast milk or breastmilk or breast pump\* or breastpump\* or human milk or lactation\* or lactating).ti,ab,kf. | 112578 | | 16 | or/1-15 | 2727007 | | 17 | exp Fish Oils/ | 29861 | | 18 | (fatty acid\* adj3 (long chain or n3 or n-3)).ti,ab,kf. | 23787 | | 19 | (docosahexaenoic acid\* or docosahexaenoate or eicosapentaenoic acid\* or icosapent or omega-3 or omega3 or timnodonic acid\*).ti,ab,kf. | 30807 | | 20 | ((n3 or n-3) adj3 (marine or oil\* or pufa\*)).ti,ab,kf. | 6535 | | 21 | ((cod or codfish or codliver or fish or marine or tuna) adj3 oil\*).ti,ab,kf. | 13958 | | 22 | or/17-21 | 59275 | | 23 | exp Hypersensitivity/ | 358457 | | 24 | Rhinitis/ | 13500 | | 25 | Conjunctivitis/ | 6256 | | 26 | exp Eczema/ | 11786 | | 27 | exp Immunoglobulin E/ | 42882 | | 28 | (airway hyper-responsiveness or allerg\* or anaphyla\* or angioedema\* or angioneurotic edema\* or angioneurotic oedema\* or asthma\* or atop\* or besnier\* prurigo or conjunctiviti\* or dermatiti\* or eczema\* or exercise-induced bronchospasm\* or hayfever\* or hay fever\* or hives or hypersensitivit\* or "immunoglobulin e" or IgE or nasal catarrh\* or neurodermatiti\* or pollen or pollenosis or pollinosis or quincke\* edema\* or quincke\* oedema\* or respiratory hyper-responsiveness or rhinit\* or rhinoconjunctiviti\* or urticari\* or vernal keratoconjunctivitis\* or wheez\*).ti,ab,kf. | 523542 | | 29 | or/23-28 | 616571 | | 30 | 16 and 22 and 29 | 472 | | 31 | (docosahexaenoic acid\* or docosahexaenoate or eicosapentaenoic acid\* or icosapent or omega-3 or omega3 or timnodonic acid\*).ti,ab,kf. | 30807 | | 32 | 22 or 31 | 59275 | | 33 | 16 and 29 and 32 | 472 | | 34 | 33 not (animals not humans).sh. | 454 | | |

2. Embase

|  |  |
| --- | --- |
| Interface: embase.com  Date of Search: 20 September 2021  Number of hits: 837  Comment: Emtree is the controlled vocabulary in Embase | Field labels   * /exp = exploded Emtree term * /de = non exploded Emtree term * ti,ab,kw = title, abstract and author keywords * NEAR/x = within x words, regardless of order * \* = truncation of word for alternate endings |
| **No.**  **Query**  **Results**  **837**  **#35**  **#33** NOT **#34**  **6,027,564**  **#34**  [animals]/lim NOT [humans]/lim  **865**  **#33**  **#15** AND **#25** AND **#32**  **975,302**  **#32**  **#26** OR **#27** OR **#28** OR **#29** OR **#30** OR **#31**  **729,629**  **#31**  **'airway hyper-responsiveness'**:ti,ab,kw OR **allerg\***:ti,ab,kw OR **anaphyla\***:ti,ab,kw OR **angioedema\***:ti,ab,kw OR **'angioneurotic edema\*'**:ti,ab,kw OR **'angioneurotic oedema\*'**:ti,ab,kw OR **asthma\***:ti,ab,kw OR **atop\***:ti,ab,kw OR **'besnier\* prurigo'**:ti,ab,kw OR **conjunctiviti\***:ti,ab,kw OR **dermatiti\***:ti,ab,kw OR **eczema\***:ti,ab,kw OR **'exercise-induced bronchospasm\*'**:ti,ab,kw OR **hayfever\***:ti,ab,kw OR **'hay fever\*'**:ti,ab,kw OR **hives**:ti,ab,kw OR **hypersensitivit\***:ti,ab,kw OR **'immunoglobulin e'**:ti,ab,kw OR **ige**:ti,ab,kw OR **'nasal catarrh\*'**:ti,ab,kw OR **neurodermatiti\***:ti,ab,kw OR **pollen**:ti,ab,kw OR **pollenosis**:ti,ab,kw OR **pollinosis**:ti,ab,kw OR **'quincke\* edema\*'**:ti,ab,kw OR **'quincke\* oedema\*'**:ti,ab,kw OR **'respiratory hyper-responsiveness'**:ti,ab,kw OR **rhinit\***:ti,ab,kw OR **rhinoconjunctiviti\***:ti,ab,kw OR **urticari\***:ti,ab,kw OR **'vernal keratoconjunctivitis\*'**:ti,ab,kw OR **wheez\***:ti,ab,kw  **88,018**  **#30**  **'immunoglobulin e'**/exp  **32,607**  **#29**  **'eczema'**/exp  **20,758**  **#28**  **'conjunctivitis'**/de  **21,080**  **#27**  **'rhinitis'**/de  **697,725**  **#26**  **'hypersensitivity'**/exp  **89,529**  **#25**  **#16** OR **#17** OR **#18** OR **#19** OR **#20** OR **#21** OR **#22** OR **#23** OR **#24**  **17,809**  **#24**  ((**cod** OR **codfish** OR **codliver** OR **fish** OR **marine** OR **tuna**) NEAR/3 **oil\***):ti,ab,kw  **8,100**  **#23**  ((**n3** OR **'n 3'**) NEAR/3 (**marine** OR **oil\*** OR **pufa\***)):ti,ab,kw  **37,333**  **#22**  **'docosahexaenoic acid\*'**:ti,ab,kw OR **docosahexaenoate**:ti,ab,kw OR **'eicosapentaenoic acid\*'**:ti,ab,kw OR **icosapent**:ti,ab,kw OR **'omega 3'**:ti,ab,kw OR **omega3**:ti,ab,kw OR **'timnodonic acid\*'**:ti,ab,kw  **28,815**  **#21**  (**'fatty acid\*'** NEAR/3 (**'long chain'** OR **n3** OR **'n 3'**)):ti,ab,kw  **18,266**  **#20**  **'icosapentaenoic acid'**/exp  **22,988**  **#19**  **'docosahexaenoic acid'**/exp  **34,290**  **#18**  **'omega 3 fatty acid'**/exp  **1,316**  **#17**  **'cod liver oil'**/exp  **18,168**  **#16**  **'fish oil'**/exp  **2,913,814**  **#15**  **#1** OR **#2** OR **#3** OR **#4** OR **#5** OR **#6** OR **#7** OR **#8** OR **#9** OR **#10** OR **#11** OR **#12** OR **#13** OR **#14**  **132,439**  **#14**  **'breast feed\*'**:ti,ab,kw OR **breastfeed\***:ti,ab,kw OR **breastfed**:ti,ab,kw OR **'breast fed'**:ti,ab,kw OR **'breast milk'**:ti,ab,kw OR **breastmilk**:ti,ab,kw OR **'breast pump\*'**:ti,ab,kw OR **breastpump\***:ti,ab,kw OR **'human milk'**:ti,ab,kw OR **lactation\***:ti,ab,kw OR **lactating**:ti,ab,kw  **1,090,619**  **#13**  **baby**:ti,ab,kw OR **babies**:ti,ab,kw OR **infant\***:ti,ab,kw OR **infancy**:ti,ab,kw OR **neonat\***:ti,ab,kw OR **newborn\***:ti,ab,kw OR **offspring**:ti,ab,kw  **1,711,976**  **#12**  **antenatal\***:ti,ab,kw OR **'ante natal\*'**:ti,ab,kw OR **birth\***:ti,ab,kw OR **'child bearing'**:ti,ab,kw OR **childbearing**:ti,ab,kw OR **childbirth\***:ti,ab,kw OR **fetal**:ti,ab,kw OR **fetus\***:ti,ab,kw OR **foetal**:ti,ab,kw OR **foetus\***:ti,ab,kw OR **gestation\***:ti,ab,kw OR **maternal\***:ti,ab,kw OR **perinatal\***:ti,ab,kw OR **'peri natal\*'**:ti,ab,kw OR **peripartum**:ti,ab,kw OR **'peri partum'**:ti,ab,kw OR **postpartum**:ti,ab,kw OR **'post partum'**:ti,ab,kw OR **prematur\***:ti,ab,kw OR **preterm**:ti,ab,kw OR **prenatal\***:ti,ab,kw OR **'pre natal\*'**:ti,ab,kw OR **pregnan\***:ti,ab,kw OR **puerperium**:ti,ab,kw  **103,429**  **#11**  **'infant nutrition'**/exp  **13,103**  **#10**  **'maternal nutrition'**/exp  **120,076**  **#9**  **'prematurity'**/exp  **1,195,233**  **#8**  **'infant'**/exp  **59,209**  **#7**  **'breast feeding'**/exp  **57,685**  **#6**  **'lactation'**/exp  **74,699**  **#5**  **'puerperium'**/exp  **213,865**  **#4**  **'fetus'**/exp  **37,285**  **#3**  **'perinatal period'**/exp  **91,401**  **#2**  **'pregnant woman'**/exp  **808,264**  **#1**  **'pregnancy'**/exp | |

3. Cochrane Library

|  |  |
| --- | --- |
| Interface: Wiley  Date of Search: 20 September 2021  Number of hits: 198 (193 in Cochrane Central Register of Controlled Trials) | Field labels   * ti,ab,kw = title, abstract and author keywords * NEAR/x = within x words, regardless of order * \* = truncation of word for alternate endings |
| |  |  |  | | --- | --- | --- | | **ID** | **Search** | **Hits** | | #1 | MeSH descriptor: [Pregnancy] explode all trees | 23152 | | #2 | MeSH descriptor: [Pregnant Women] this term only | 367 | | #3 | MeSH descriptor: [Pregnancy Trimesters] explode all trees | 1787 | | #4 | MeSH descriptor: [Peripartum Period] this term only | 16 | | #5 | MeSH descriptor: [Fetus] this term only | 344 | | #6 | MeSH descriptor: [Postpartum Period] this term only | 1274 | | #7 | MeSH descriptor: [Lactation] explode all trees | 640 | | #8 | MeSH descriptor: [Breast Feeding] explode all trees | 1977 | | #9 | MeSH descriptor: [Milk, Human] this term only | 1062 | | #10 | MeSH descriptor: [Infant] explode all trees | 33346 | | #11 | MeSH descriptor: [Maternal Nutritional Physiological Phenomena] explode all trees | 457 | | #12 | MeSH descriptor: [Infant Nutritional Physiological Phenomena] this term only | 1077 | | #13 | (antenatal\* OR "ante natal\*" OR birth\* OR "child bearing" OR childbearing OR childbirth\* OR fetal OR fetus\* OR foetal OR foetus\* OR gestation\* OR maternal\* OR perinatal\* OR "peri natal\*" OR peripartum OR "peri partum" OR postpartum OR "post partum" OR prematur\* OR preterm OR prenatal\* OR (pre NEXT natal\*) OR pregnan\* OR puerperium):ti,ab,kw | 117537 | | #14 | (baby OR babies OR infant\* OR infancy OR neonat\* OR newborn\* OR offspring):ti,ab,kw | 82221 | | #15 | ((breast NEXT feed\*) OR breastfeed\* OR breastfed OR "breast fed" OR "breast milk" OR breastmilk OR (breast NEXT pump\*) OR breastpump\* OR "human milk" OR lactation\* OR lactating):ti,ab,kw | 14324 | | #16 | #1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 | 157904 | | #17 | MeSH descriptor: [Fish Oils] explode all trees | 3585 | | #18 | ((fatty NEXT acid\*) NEAR/3 ("long chain" OR n3 OR "n-3")) | 3060 | | #19 | ((docosahexaenoic NEXT acid\*) OR docosahexaenoate OR (eicosapentaenoic NEXT acid\*) OR icosapent OR "omega-3" OR omega3 OR (timnodonic NEXT acid\*)):ti,ab,kw | 8316 | | #20 | ((n3 or "n-3") NEAR/3 (marine or oil\* or pufa\*)):ti,ab,kw | 1330 | | #21 | ((cod OR codfish OR codliver OR fish OR marine OR tuna) NEAR/3 oil\*):ti,ab,kw | 3505 | | #22 | #17 or #18 or #19 or #20 or #21 | 10525 | | #23 | MeSH descriptor: [Hypersensitivity] explode all trees | 21381 | | #24 | MeSH descriptor: [Rhinitis] this term only | 1170 | | #25 | MeSH descriptor: [Conjunctivitis] this term only | 396 | | #26 | MeSH descriptor: [Eczema] explode all trees | 1125 | | #27 | MeSH descriptor: [Immunoglobulin E] explode all trees | 1348 | | #28 | ("airway hyper-responsiveness" OR allerg\* OR anaphyla\* OR angioedema\* OR (angioneurotic NEXT edema\*) OR (angioneurotic NEXT oedema\*) OR asthma\* OR atop\* OR (besnier\* NEXT prurigo) OR conjunctiviti\* OR dermatiti\* OR eczema\* OR ("exercise-induced" NEXT bronchospasm\*) OR hayfever\* OR (hay NEXT fever\*) OR hives OR hypersensitivit\* OR "immunoglobulin e" OR IgE OR (nasal NEXT catarrh\*) OR neurodermatiti\* OR pollen OR pollenosis OR pollinosis OR (quincke\* NEXT edema\*) OR (quincke\* NEXT oedema\*) OR "respiratory hyper-responsiveness" OR rhinit\* OR rhinoconjunctiviti\* OR urticari\* OR (vernal NEXT keratoconjunctivitis\*) OR wheez\*):ti,ab,kw | 79194 | | #29 | #23 or #24 or #25 or #26 or #27 or #28 | 79731 | | #30 | #16 and #22 and #29 | 198 | | |

4. Scopus

|  |  |
| --- | --- |
| Interface: Elsevier  Date of Search: 20 September 2021  Number of hits: 935 | Field labels   * TITLE-ABS-KEY = title, abstract and author keywords * W/x = within x words, regardless of order * = truncation of word for alternate endings |
| ( ( TITLE-ABS-KEY ( "antenatal\*" OR "ante natal\*" OR birth\* OR "child bearing" OR "childbearing" OR childbirth\* OR "fetal" OR fetus\* OR "foetal" OR foetus\* OR gestation\* OR maternal\* OR "perinatal\*" OR "peri natal\*" OR "peripartum" OR "peri partum" OR "postpartum" OR "post partum" OR prematur\* OR preterm OR prenatal\* OR "pre natal\*" OR pregnan\* OR "puerperium" ) ) OR ( TITLE-ABS-KEY ( "baby" OR "babies" OR infant\* OR "infancy" OR neonat\* OR newborn\* OR "offspring" ) ) OR ( TITLE-ABS-KEY ( "breast feed\*" OR breastfeed\* OR "breastfed" OR "breast fed" OR "breast milk" OR "breastmilk" OR "breast pump\*" OR breastpump\* OR "human milk" OR lactation\* OR "lactating" ) ) ) AND ( ( TITLE-ABS-KEY ( "fatty acid\*" W/2 ( "long chain" OR "n3" OR "n-3" ) ) ) OR ( TITLE-ABS-KEY ( "docosahexaenoic acid\*" OR "docosahexaenoate" OR "eicosapentaenoic acid\*" OR "icosapent" OR "omega-3" OR "omega3" OR "timnodonic acid\*") ) OR ( TITLE-ABS-KEY ( ( "n3" OR "n-3" ) W/2 ( "marine" OR oil\* OR pufa\* ) ) ) OR ( TITLE-ABS-KEY ( ( "cod" OR "codfish" OR "codliver" OR "fish" OR "marine" OR "tuna" ) W/2 oil\* ) ) ) AND ( TITLE-ABS-KEY ( "airway hyper-responsiveness" OR allerg\* OR anaphyla\* OR angioedema\* OR "angioneurotic edema\*" OR "angioneurotic oedema\*" OR asthma\* OR atop\* OR "besnier\* prurigo" OR conjunctiviti\* OR dermatiti\* OR eczema\* OR "exercise-induced bronchospasm\*" OR hayfever\* OR "hay fever\*" OR "hives" OR hypersensitivit\* OR "immunoglobulin e" OR "IgE" OR "nasal catarrh\*" OR neurodermatiti\* OR "pollen" OR "pollenosis" OR "pollinosis" OR "quincke\* edema\*" OR "quincke\* oedema\*" OR "respiratory hyper-responsiveness" OR rhinit\* OR rhinoconjunctiviti\* OR urticari\* OR "vernal keratoconjunctivitis\*" OR wheez\* ) ) | |