Documentation of search strategies

University Library search consultation group

Date: June 2022

Topic/research question: Malnutrition in frail persons with heart failure

Name of researcher(s): Kerstin Belqaid

Librarian(s): Love Strandberg, Emma-Lotta Säätelä

Databases:

1. Medline (Ovid)
2. Embase (embase.com)
3. Web of Science (Clarivate)
4. Cinahl (Ebsco)

Total number of hits:

* Before deduplication: 1,835
* After deduplication: 1,083

Comments:

Deduplication based on the method described in:   
Bramer, W. M., Giustini, D., de Jonge, G. B., Holland, L., & Bekhuis, T. (2016). De-duplication of database search results for systematic reviews in EndNote. *Journal of the Medical Library Association: JMLA*, 104(3), 240–243. doi:10.3163/1536-5050.104.3.014

One final, extra step was added to compare DOIs.

1. Medline

|  |  |
| --- | --- |
| Interface: Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily  Date of Search: 21 June 2022  Number of hits: 395  Comment: In Ovid, two or more words are automatically searched as phrases; therefore no quotation marks are needed | Field labels   * exp/ = exploded MeSH term * / = non exploded MeSH term * .ti,ab,kf. = title, abstract and author keywords * .hw = word in MeSH-term * adjx = within x words, regardless of order * \* = truncation of word for alternate endings |
| |  |  |  | | --- | --- | --- | | **#** | **Search query** | **Hits** | | 1 | exp Heart Failure/ | 139141 | | 2 | exp Heart Arrest/ | 53950 | | 3 | Cardiomyopathy, Dilated/ | 16746 | | 4 | Shock, Cardiogenic/ | 10102 | | 5 | exp Ventricular Dysfunction/ | 41664 | | 6 | Cardiac Output, Low/ | 5579 | | 7 | ((cardiac or cardiocirculatory or cardio-circulatory or cardiogenic or cardiomyopath\* or cardiopulmonary or cardiovascular or heart or myocardial or ventricle\* or ventricular) adj3 (arrest or collapse or failure\* or insufficienc\* or decompensat\* or shock?)).ti,ab,kf. | 288084 | | 8 | ((diastolic or systolic or ventricle? or ventricular) adj3 (dysfunction or overload)).ti,ab,kf. | 41958 | | 9 | (heart edema? or heart oedema?).ti,ab,kf. | 28 | | 10 | ((cardiorenal or cardio-renal) adj3 syndrome).ti,ab,kf. | 1522 | | 11 | or/1-10 | 395516 | | 12 | (deficienc\* or diet\* or eat\* or energy or fats or fatty or nutrient\* or nutrition\* or protein\*).hw. | 4378067 | | 13 | exp Malnutrition/ | 131441 | | 14 | exp Food/ | 1410641 | | 15 | (calorie\* or deficienc\* or diet\* or eat\* or energy or fats or fatty or food or malnutri\* or malnourish\* or nutrient\* or nutrition\* or protein\* or undernutri\* or undernourish\*).ti,ab,kf. | 5541659 | | 16 | or/12-15 | 7832574 | | 17 | Frailty/ | 6875 | | 18 | Frail Elderly/ | 13998 | | 19 | (fragility or frail\* or debilit\* or functionally impair\*).ti,ab,kf. | 81449 | | 20 | ((SOF or CHS) adj3 index\*).ti,ab,kf. | 59 | | 21 | or/17-20 | 85828 | | 22 | 11 and 16 and 21 | 395 | | |

2. Embase

|  |  |
| --- | --- |
| Interface: embase.com  Date of Search: 21 June 2022  Number of hits: 799  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** | | #1 | 'heart failure'/exp | 601824 | | #2 | 'congestive cardiomyopathy'/exp | 35723 | | #3 | ((cardiac OR cardiocirculatory OR 'cardio circulatory' OR cardiogenic OR cardiomyopath\* OR cardiopulmonary OR cardiovascular OR heart OR myocardial OR ventricle\* OR ventricular) NEAR/3 (arrest OR collapse OR failure\* OR insufficienc\* OR decompensat\* OR shock?)):ti,ab,kw | 449782 | | #4 | ((diastolic OR systolic OR ventricle? OR ventricular) NEAR/3 (dysfunction OR overload)):ti,ab,kw | 73541 | | #5 | 'heart edema\*':ti,ab,kw OR 'heart oedema\*':ti,ab,kw | 41 | | #6 | ((cardiorenal OR 'cardio renal') NEAR/3 syndrome):ti,ab,kw | 2687 | | #7 | #1 OR #2 OR #3 OR #4 OR #5 OR #6 | 724706 | | #8 | 'nutrition'/exp | 2567327 | | #9 | 'malnutrition'/exp | 193043 | | #10 | 'nutritional deficiency'/exp | 301996 | | #11 | calorie\*:ti,ab,kw OR deficienc\*:ti,ab,kw OR diet\*:ti,ab,kw OR eat\*:ti,ab,kw OR energy:ti,ab,kw OR fats:ti,ab,kw OR fatty:ti,ab,kw OR food:ti,ab,kw OR malnutri\*:ti,ab,kw OR malnourish\*:ti,ab,kw OR nutrient\*:ti,ab,kw OR nutrition\*:ti,ab,kw OR protein\*:ti,ab,kw OR undernutri\*:ti,ab,kw OR undernourish\*:ti,ab,kw | 6652494 | | #12 | #8 OR #9 OR #10 | 8389479 | | #13 | 'frailty'/de | 19947 | | #14 | 'frail elderly'/de | 11522 | | #15 | fragility:ti,ab,kw OR frail\*:ti,ab,kw OR debilit\*:ti,ab,kw OR 'functionally impair\*':ti,ab,kw | 120528 | | #16 | ((sof OR chs) NEAR/3 index\*):ti,ab,kw | 105 | | #17 | #12 OR #13 OR #14 OR #15 | 126136 | | #18 | #7 AND #12 AND #17 | 1162 | | #19 | #18 NOT ('conference abstract'/it OR 'conference paper'/it OR 'conference review'/it) | 799 | | |

3. Web of Science Core Collection

|  |  |
| --- | --- |
| Interface: Clarivate Analytics  Editions = A&HCI , ESCI , SCI-EXPANDED , SSCI  Date of Search: 22 June 2022  Number of hits: 488 | Field labels   * TS/Topic = title, abstract, author keywords and Keywords Plus * NEAR/x = within x words, regardless of order * \* = truncation of word for alternate endings   Note: the *Exact search*-function was used for all the searches |
| |  |  |  | | --- | --- | --- | | **#** | **Query** | **Hits** | | 1 | TS=((cardiac or cardiocirculatory or cardio-circulatory or cardiogenic or cardiomyopath\* or cardiopulmonary or cardiovascular or heart or myocardial or ventricle\* or ventricular) NEAR/2 (arrest or collapse or failure\* or insufficienc\* or decompensat\* or shock?)) | 350,165 | | 2 | TS=((diastolic or systolic or ventricle? or ventricular) NEAR/2 (dysfunction or overload)) | 55,714 | | 3 | TS=(heart edema? or heart oedema?) | 72 | | 4 | TS=((cardiorenal or cardio-renal) NEAR/2 syndrome) | 1,998 | | 5 | #4 OR #3 OR #2 OR #1 | 378,566 | | 6 | TS=(calorie\* or deficienc\* or diet\* or eat\* or energy or fats or fatty or food or malnutri\* or malnourish\* or nutrient\* or nutrition\* or protein\* or undernutri\* or undernourish\*) | 9,611,046 | | 7 | TS=(fragility or frail\* or debilit\* or "functionally impair\*") | 99,409 | | 8 | TS=((SOF or CHS) NEAR/2 index\*) | 62 | | 9 | #8 OR #7 | 99,424 | | 10 | #9 AND #6 AND #5 | 488 | | |

6. Cinahl

|  |  |
| --- | --- |
| Interface: Ebsco  Date of Search: 22 June 2022  Number of hits: 153 | Field labels   * MH+ = exploded Cinahl Heading * MH = non exploded Cinahl Heading * MW = word in Cinahl Heading * TI = title * AB = abstract * Nx = within x words, regardless of order * \* = truncation of word for alternate endings |
| |  |  |  | | --- | --- | --- | | # | Query | Results | | S1 | (MH "Heart Failure+") | 47,317 | | S2 | TI ( ((cardiac OR cardiocirculatory OR "cardio-circulatory" OR cardiogenic OR cardiomyopath\* OR cardiopulmonary OR cardiovascular OR heart OR myocardial OR ventricle\* OR ventricular) N3 (arrest OR collapse OR failure\* OR insufficienc\* OR decompensat\* OR shock?)) ) OR AB ( ((cardiac OR cardiocirculatory OR "cardio-circulatory" OR cardiogenic OR cardiomyopath\* OR cardiopulmonary OR cardiovascular OR heart OR myocardial OR ventricle\* OR ventricular) N3 (arrest OR collapse OR failure\* OR insufficienc\* OR decompensat\* OR shock?)) ) | 88,187 | | S3 | TI ( ((diastolic OR systolic OR ventricle? OR ventricular) N3 (dysfunction OR overload)) ) OR AB ( ((diastolic OR systolic OR ventricle? OR ventricular) N3 (dysfunction OR overload)) ) | 10,774 | | S4 | TI ( "heart edema\*" OR "heart oedema\*" ) OR AB ( "heart edema\*" OR "heart oedema\*" ) | 0 | | S5 | TI ( ((cardiorenal or cardio-renal) N3 syndrome) ) OR AB ( ((cardiorenal or cardio-renal) N3 syndrome) ) | 354 | | S6 | S1 OR S2 OR S3 OR S4 OR S5 | 106,766 | | S7 | MW (deficienc\* or diet\* or eat\* or energy or fats or fatty or nutrient\* or nutrition\* or protein\*) | 511,985 | | S8 | (MH "Nutrition+") | 179,712 | | S9 | (MH "Nutrition disorders+") | 147,993 | | S10 | (MH "Food+") | 195,776 | | S11 | TI ( (calorie\* or deficienc\* or diet\* or eat\* or energy or fats or fatty or food or malnutri\* or malnourish\* or nutrient\* or nutrition\* or protein\* or undernutri\* or undernourish\*) ) OR AB ( (calorie\* or deficienc\* or diet\* or eat\* or energy or fats or fatty or food or malnutri\* or malnourish\* or nutrient\* or nutrition\* or protein\* or undernutri\* or undernourish\*) ) | 622,296 | | S12 | S7 OR S8 OR S9 OR S10 OR S11 | 825,755 | | S13 | (MH "Frail Elderly") | 8,431 | | S14 | (MH "Frailty syndrome") | 3,507 | | S15 | TI ( (fragility or frail\* or debilit\* or "functionally impair\*") ) OR AB ( (fragility or frail\* or debilit\* or "functionally impair\*") ) | 28,920 | | S16 | S13 OR S14 OR S15 | 32,327 | | S17 | S6 AND S12 AND S16 | 153 | | |