Documentation of search strategies

University Library search consultation group

Date: June 2022

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

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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

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| Interface: Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and DailyDate of Search: 21 June 2022Number of hits: 395Comment: 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
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| **#** | **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 |

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2. Embase

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| Interface: embase.comDate of Search: 21 June 2022Number of hits: 799Comment: 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
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| **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 |

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3. Web of Science Core Collection

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| Interface: Clarivate AnalyticsEditions = A&HCI , ESCI , SCI-EXPANDED , SSCIDate of Search: 22 June 2022Number 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 |
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| **#** | **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 |

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6. Cinahl

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| Interface: EbscoDate of Search: 22 June 2022Number 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
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| # | 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 |

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