**Supplemental Table 1: Medline search strategy for a literature review to identify reviews reporting nutritional risk indicators in adult acute care inpatients**

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| **#** | **Searches** |
| 1 | hospitalization/ or inpatients/ |
| 2 | hospital units/ or intensive care units/ or burn units/ or coronary care units/ |
| 3 | acute disease/ or critical illness/ |
| 4 | (hospital\* or inpatient\*).tw,kw. |
| 5 | (patient\* adj4 (admitted or admission\*)).tw,kw. |
| 6 | ((critical\* or acute\*) adj4 (ill\* or episode\* or disease\* or care)).tw,kw. |
| 7 | (ICU or ICUs or ((intensive care or burns or coronary care) adj2 (unit\* or ward\*))).tw,kw. |
| 8 | or/1-7 |
| 9 | Risk factors/ or Risk/ or Risk assessment/ |
| 10 | (Risk\* or determinant\* or vulnerab\* or predispos\* or susceptib\* or danger\*).tw,kw. |
| 11 | 9 or 10 |
| 12 | nutrition disorders/ or nutritional requirements/ or Nutritional Physiological Phenomena/ or Elder nutritional Physiological Phenomena/ |
| 13 | (nutrition\* adj4 (disorder\* or disease\* or risk\* or vulnerab\* or compromised or abnormal\* or impair\* or complication\* or deplet\* or insufficien\* or deficien\* or complication\* or derange\* or stress or require\*)).tw,kw. |
| 14 | overnutrition/ or exp obesity/ |
| 15 | (overnutrition or overnourish\* or hypernutrition or overweight or obes\*).tw,kw. |
| 16 | malnutrition/ or protein-energy malnutrition/ or severe acute malnutrition/ or wasting syndrome/ or hiv wasting syndrome/ or refeeding syndrome/ or severe acute malnutrition/ or kwashiorkor/ or starvation/ |
| 17 | cachexia/ or sarcopenia/ or emaciation/ |
| 18 | (nourish\* or undernutrition or undernourish\* or malnutrition\* or malnourish\* or wasting or emaciat\* or cachexia or cachectic or sarcopeni\* or kwashiorkor or starv\*).tw,kw. |
| 19 | hypervitaminosis a/ or avitaminosis/ |
| 20 | (hypervitaminosis or avitaminosis).tw,kw. |
| 21 | (micronutrients/ or ubiquinone/ or trace elements/ or iodine/ or iron/ or selenium/ or zinc/ or vitamins/ or 25-hydroxyvitamin d 2/ or ascorbic acid/ or vitamin a/ or vitamin e/ or vitamin b complex/ or biotin/ or folic acid/ or niacin/ or pantothenic acid/ or pyridoxine/ or riboflavin/ or thiamine/ or vitamin b 12/ or vitamin b 6/ or calcium/) and deficiency.fs. |
| 22 | deficiency diseases/ |
| 23 | ascorbic acid deficiency/ or scurvy/ or vitamin a deficiency/ or vitamin b deficiency/ or choline deficiency/ or folic acid deficiency/ or hyperhomocysteinemia/ or pellagra/ or riboflavin deficiency/ or thiamine deficiency/ or beriberi/ or wernicke encephalopathy/ or vitamin b 6 deficiency/ or vitamin b 12 deficiency/ or anemia, pernicious/ or subacute combined degeneration/ or vitamin d deficiency/ or rickets/ or osteomalacia/ or "chronic kidney disease-mineral and bone disorder"/ or rickets, hypophosphatemic/ or vitamin e deficiency/ or vitamin k deficiency/ or magnesium deficiency/ or potassium deficiency/ or protein deficiency/ |
| 24 | ((vitamin\* or multivitamin\* or micronutrient\* or macronutrient\* or nutrient\* or trace element\* or mineral\* or magnesium or zinc or selenium or potassium or ascorbic acid or choline or folic acid\* or folate or riboflavin or thiamine or protein or calcium or iron or iodine) adj4 (deficien\* or deplet\* or level\* or inadequa\* or insufficien\* or lacking)).tw,kw. |
| 25 | (scurvy or hyperhomocysteinemia or pellagra or rickets or refeeding syndrome\* or beriberi or osteomalacia or wernicke\*).tw,kw. |
| 26 | ((Pernicious or Biermer\* or Addison\*) adj2 (anemi\* or anaemi\*)).tw,kw. |
| 27 | (iron adj3 (anemi\* or anaemi\*)).tw,kw. |
| 28 | ((B12 or B-12) adj3 (anemi\* or anaemi\*)).tw,kw. |
| 29 | (micronutrients/ or ubiquinone/ or trace elements/ or iodine/ or iron/ or selenium/ or zinc/ or vitamins/ or 25-hydroxyvitamin d 2/ or ascorbic acid/ or vitamin a/ or vitamin e/ or vitamin b complex/ or biotin/ or folic acid/ or niacin/ or pantothenic acid/ or pyridoxine/ or riboflavin/ or thiamine/ or vitamin b 12/ or vitamin b 6/ or calcium/) and (adverse effects or toxicity or poisoning).fs. |
| 30 | ((vitamin\* or multivitamin\* or micronutrient\* or macronutrient\* or nutrient\* or trace element\* or mineral\* or magnesium or zinc or selenium or potassium or ascorbic acid or choline or folic acid\* or folate or riboflavin or thiamine or protein or calcium or iron or iodine) adj4 (toxicit\* or poisoning)).tw,kw. |
| 31 | Hypocalcemia/ |
| 32 | Hypocalcemia/ or (hypocalcemi\* or hypocalcaemi\*).tw,kw. |
| 33 | Dehydration/ |
| 34 | (dehydration or water stress).tw,kw. |
| 35 | or/12-34 |
| 36 | 8 and 11 and 35 |
| 37 | (meta analysis or systematic review or review).pt. |
| 38 | meta-analysis/ |
| 39 | meta-analysis as topic/ |
| 40 | "Review Literature as Topic"/ |
| 41 | Technology Assessment, Biomedical/ |
| 42 | ((systematic\* adj3 (review\* or overview\*)) or (methodologic\* adj3 (review\* or overview\*))).tw,kw. |
| 43 | ((quantitative adj3 (review\* or overview\* or synthes\*)) or (research adj3 (integrati\* or overview\*))).tw,kw. |
| 44 | ((integrative adj3 (review\* or overview\*)) or (collaborative adj3 (review\* or overview\*)) or (pool\* adj3 analy\*)).tw,kw. |
| 45 | (data synthes\* or data extraction\* or data abstraction\*).tw,kw. |
| 46 | (handsearch\* or hand search\*).tw,kw. |
| 47 | (mantel haenszel or peto or der simonian or dersimonian or fixed effect\* or latin square\*).tw,kw. |
| 48 | (met analy\* or metanaly\* or technology assessment\* or HTA or HTAs or technology overview\* or technology appraisal\*).tw,kw. |
| 49 | (meta regression\* or metaregression\*).tw,kw. |
| 50 | (meta-analy\* or metaanaly\* or systematic review\* or biomedical technology assessment\* or bio-medical technology assessment\*).mp,hw. |
| 51 | (medline or cochrane or pubmed or medlars or embase or cinahl).tw,hw. |
| 52 | (cochrane or (health adj2 technology assessment) or evidence report).jw. |
| 53 | (comparative adj3 (efficacy or effectiveness)).tw,kw. |
| 54 | (outcomes research or relative effectiveness).tw,kw. |
| 55 | ((indirect or indirect treatment or mixed-treatment) adj comparison\*).tw,kw. |
| 56 | or/37-55 |
| 57 | 36 and 56 |
| 58 | exp animals/ not humans/ |
| 59 | (exp child/ or exp infant/ or adolescent/) not exp adult/ |
| 60 | (child\* or preschool\* or toddler\* or p?ediatric\* or adolescen\* or youth or teen\*).ti. |
| 61 | (mice or mouse or murine or rat or rats or pig or swine or rabbit\* or equine or horse\*).ti. |
| 62 | or/58-61 |
| 63 | 57 not 62 |
| 64 | limit 63 to english language |

**Notes**

* Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily, Ovid MEDLINE and Versions(R)
* / = search on Medical Subject Headings (fixed terms)
* Tw,kw = search on title, abstract, and author keyword fields
* Adjx allows terms to occur within x spaces of each other in either direction (i.e. *patients admitted* or *admitted patients*)
* Fs = free floating subheading (i.e. a MeSH subheading allowed to attach itself to any MeSH term in the search)
* Pt = search on publication type (fixed terms)
* ? substitutes for 0-1 characters, e.g. *P?ediatric* finds *pediatric* or *paediatric*