

Supplementary file 1. Search strategy

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A. Search strategy

PubMed

((("Critical Care"[Mesh] OR "Critical Illness"[Mesh] OR "Intensive Care Units"[Mesh] OR ICU[tiab] OR ICUs[tiab] OR intensive care[tiab] OR critical care[tiab] OR critically ill*[tiab] OR critical ill*[tiab] OR mechanical ventilat*[tiab] OR artificial ventilat*[tiab] OR ventilated[tiab]) AND ("Diet, High-Protein"[Mesh] OR "Dietary Proteins"[Mesh] OR "Amino Acids, Essential"[Mesh] OR protein*[tiab] OR amino acid[tiab]) AND ("Nutritional Support"[Mesh] OR intravenous[tiab] OR tube feeding[tiab] OR nutrition*[tiab] OR nitrogen balance[tiab]) AND ("Randomized Controlled Trial" [Publication Type] OR "Controlled Clinical Trial" [Publication Type] OR "Cohort Studies"[Mesh] OR "Observational Study" [Publication Type] OR ((randomized[tiab] OR randomised[tiab]) AND trial*[tiab]) OR cohort[tiab] OR retrospective*[tiab] OR prospective*[tiab] OR observational stud*[tiab])) NOT (("Child"[Mesh] OR "Infant"[Mesh] OR child*[tiab] OR infan*[tiab] OR newborn*[tiab] OR neonat*[tiab] OR baby[tiab] OR babies[tiab]) NOT ("Adult"[Mesh] OR adult*[tiab])) AND English[lang])

EMBASE (OVID):

#	Searches
1	exp intensive care/ or critical illness/ or critically ill patient/ or intensive care unit/
2	(ICU or ICUs or intensive care or critical care or critically ill* or critical ill* or mechanical ventilat* or artificial ventilat* or ventilated).ti,ab,kw.
3	1 or 2
4	exp *protein diet/ or *protein intake/ or exp *essential amino acid/
5	((protein* or amino acid) and (intake or diet* or therap*)).ti,ab,kw.
6	4 or 5
7	nutritional support/
8	(intravenous or tube feeding or nutrition* or nitrogen balance).ti,ab,kw.
9	7 or 8
10	3 and 6 and 9
11	randomized controlled trial/ or controlled clinical trial/ or cohort analysis/ or observational study/
12	((randomized or randomised) adj3 trial*).ti,ab,kw.
13	(cohort or retrospective* or prospective* or observational stud*).ti,ab,kw.
14	11 or 12 or 13
15	10 and 14
16	(exp child/ or (child* or infan* or newborn* or neonat* or baby or babies).ti,ab,kw.) not (exp adult/ or adult*.ti,ab,kw.)
17	15 not 16
18	limit 17 to english language
19	limit 18 to conference abstract status
20	18 not 19

ID SearchHits

#1 (ICU or ICUs or intensive care or critical care or critically ill* or critical ill* or mechanical ventilat* or artificial ventilat* or ventilated):ti,ab,kw

#2 ((protein* or amino acid) and (intake or diet* or therap*)):ti,ab,kw

#3 (intravenous or tube feeding or nutrition* or nitrogen balance):ti,ab,kw

#4 #1 and #2 and #3

#5 ((child* or infan* or newborn* or neonat* or baby or babies) not adult*):ti,ab,kw

#6 #4 not #5 in Trials

B. Flow diagram of included studies

