Supplementary Table S1. Search strategy

Scopus TITLE-ABS-KEY(Malnutrition OR malnourished OR undernutrition OR undernourished OR "protein-energy malnutrition" OR sarcopenia OR "risk of malnutrition" OR "weight loss" OR "prevalence of malnutrition" OR "nutritional status") AND TITLE-ABS-KEY("subjective global assessment" OR SGA OR "patient generated subjective global assessment" OR "PG-SGA" OR "mini nutritional assessment" OR MNA OR "mini nutritional assessment short form" OR MNA-SF OR "nutrition assessment" OR "geriatric assessment" OR "malnutrition screening") AND TITLE-ABS-KEY("residential aged care" OR "aged care" OR "long term care" OR "nursing home" OR "home for the ag*" OR "housing for the elderly" OR "skilled nursing facility" OR "assisted living" OR "residential care" OR "geriatric institution*") *Results*: 1,142
Web of Science – Core Collection ((TS=(Malnutrition OR malnourished OR undernutrition OR undernourished OR "protein-energy malnutrition" OR sarcopenia OR "risk of malnutrition" OR "weight loss" OR "prevalence of malnutrition" OR "nutritional status")) AND TS=("subjective global assessment" OR SGA OR "patient generated subjective global assessment" OR "PG-SGA" OR "mini nutritional assessment" OR MNA OR "mini nutritional assessment short form" OR MNA-SF OR "nutrition assessment" OR "geriatric assessment" OR "malnutrition screening")) AND TS=("residential aged care" OR "aged care" OR "long term care" OR "nursing home" OR "home for the ag*" OR "housing for the elderly" OR "skilled nursing facility" OR "assisted living" OR "residential care" OR "geriatric institution*") *Results*: 501
CINAHL Plus with full text S1 MH (Malnutrition OR malnourished OR undernutrition OR undernourished OR "protein-energy malnutrition" OR sarcopenia OR "risk of malnutrition" OR "weight loss" OR "prevalence of malnutrition" OR "nutritional status") OR TI (Malnutrition OR malnourished OR undernutrition OR undernourished OR "protein-energy malnutrition" OR sarcopenia OR "risk of malnutrition" OR "weight loss" OR "prevalence of malnutrition" OR "nutritional status") OR AB (Malnutrition OR malnourished OR undernutrition OR undernourished OR "protein-energy malnutrition" OR sarcopenia OR "risk of malnutrition" OR "weight loss" OR "prevalence of malnutrition" OR "nutritional status") S2 MH ("subjective global assessment" OR SGA OR "patient generated subjective global assessment" OR "PG-SGA" OR "mini nutritional assessment" OR MNA OR "mini nutritional assessment short form" OR MNA-SF OR "nutrition assessment" OR "geriatric assessment" OR "malnutrition screening") OR TI ("subjective global assessment" OR SGA OR "patient generated subjective global assessment" OR "PG-SGA" OR "mini nutritional assessment" OR MNA OR "mini nutritional assessment short form" OR MNA-SF OR "nutrition assessment" OR "geriatric assessment" OR "malnutrition screening") OR AB ("subjective global assessment" OR SGA OR "patient generated subjective global assessment" OR "PG-SGA" OR "mini nutritional assessment" OR MNA OR "mini nutritional assessment short form" OR MNA-SF OR "nutrition assessment" OR "geriatric assessment" OR "malnutrition screening") S3 MH ("residential aged care" OR "aged care" OR "long term care" OR "nursing home" OR "home for the ag*" OR "housing for the elderly" OR "skilled nursing facility" OR "assisted living" OR "residential care" OR "geriatric institution*") OR TI ("residential aged care" OR "aged care" OR "long term care" OR "nursing home" OR "home for the ag*" OR "housing for the elderly" OR "skilled nursing facility" OR "assisted living" OR "residential care" OR "geriatric institution*") OR AB ("residential aged care" OR "aged care" OR "long term care" OR "nursing home" OR "home for the ag*" OR "housing for the elderly" OR "skilled nursing facility" OR "assisted living" OR "residential care" OR "geriatric institution*") Together – search with AND: S1 AND S2 AND S3

Results: 320

MEDLINE

S1
MH (Malnutrition OR malnourished OR undernutrition OR undernourished OR "protein-energy malnutrition" OR sarcopenia OR "risk of malnutrition" OR "weight loss" OR "prevalence of malnutrition" OR "nutritional status") OR AB (Malnutrition OR malnourished OR undernutrition OR undernourished OR "protein-energy malnutrition" OR sarcopenia OR "risk of malnutrition" OR "weight loss" OR "prevalence of malnutrition" OR "nutritional status") OR TI (Malnutrition OR malnourished OR undernutrition OR undernourished OR "protein-energy malnutrition" OR sarcopenia OR "risk of malnutrition" OR "weight loss" OR "prevalence of malnutrition" OR "nutritional status")

S2
MH ("subjective global assessment" OR SGA OR "patient generated subjective global assessment" OR "PG-SGA" OR "mini nutritional assessment" OR MNA OR "mini nutritional assessment short form" OR MNA-SF OR "nutrition assessment" OR "geriatric assessment" OR "malnutrition screening") OR AB ("subjective global assessment" OR SGA OR "patient generated subjective global assessment" OR "PG-SGA" OR "mini nutritional assessment" OR MNA OR "mini nutritional assessment short form" OR MNA-SF OR "nutrition assessment" OR "geriatric assessment" OR "malnutrition screening") OR TI ("subjective global assessment" OR SGA OR "patient generated subjective global assessment" OR "PG-SGA" OR "mini nutritional assessment" OR MNA OR "mini nutritional assessment short form" OR MNA-SF OR "nutrition assessment" OR "geriatric assessment" OR "malnutrition screening")

S3
MH ("residential aged care" OR "aged care" OR "long term care" OR "nursing home" OR "home for the ag*" OR "housing for the elderly" OR "skilled nursing facility" OR "assisted living" OR "residential care" OR "geriatric institution*") OR AB ("residential aged care" OR "aged care" OR "long term care" OR "nursing home" OR "home for the ag*" OR "housing for the elderly" OR "skilled nursing facility" OR "assisted living" OR "residential care" OR "geriatric institution*") OR TI ("residential aged care" OR "aged care" OR "long term care" OR "nursing home" OR "home for the ag*" OR "housing for the elderly" OR "skilled nursing facility" OR "assisted living" OR "residential care" OR "geriatric institution*")

S1 AND S2 AND S3
Results: 618

Supplementary Table S2: Quality assessment of included studies [26]

Author, Year	Class	Quality Rating (*)	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Arellano 2004	D	Neutral	Y	U/C	N/A	N	N/A	N	Y	N	N	U/C
Bolmsjo 2015	B	Positive	Y	Y	Y	Y	N/A	Y	Y	Y	Y	Y
Bonaccorsi 2015	D	Positive	Y	Y	Y	N/A	N/A	Y	Y	Y	Y	Y
Bourdel-Marchasson 2009	D	Neutral	Y	U/C	Y	N/A	N/A	U/C	Y	Y	Y	U/C
Cankurtaran 2013	D	Positive	Y	Y	Y	N/A	N/A	Y	Y	Y	Y	Y
Cereda 2011	B	Positive	Y	Y	Y	Y	N/A	Y	Y	Y	Y	Y
Chang 2011	D	Positive	Y	Y	Y	N/A	N/A	Y	Y	Y	Y	Y
Elsig 2015	D	Positive	Y	Y	Y	N/A	N/A	Y	Y	Y	Y	Y
Elzoghbi 2014	D	Positive	Y	Y	Y	Y	N/A	Y	Y	Y	Y	Y
GilGregorio 2003	A	Neutral	Y	Y	U/C	N	N/A	N	Y	Y	N	U/C
Kamo 2017	B	Positive	Y	Y	U/C	Y	N/A	No	Y	Y	Y	U/C
Keser 2016	D	Positive	Y	Y	Y	N/A	N/A	Y	Y	Y	Y	U/C
Lauque 2000	A	Positive	Y	Y	Y	Y	N	Y	Y	Y	N	U/C
Lin 2017	B	Neutral	Y	U/C	N/A	N	N/A	N	Y	Y	U/C	U/C
Maltais 2018	A	Positive	Y	Y	Y	Y	Y	Y	Y	Y	Y	U/C
Muurinen 2015	D	Positive	Y	Y	Y	N/A	N/A	N/A	Y	Y	Y	Y
Salminen 2019	D	Positive	Y	Y	N/A	U/C	N/A	N/A	Y	Y	Y	Y
Sliwinski 2013	D	Neutral	Y	U/C	N/A	N/A	N/A	N/A	Y	Y	Y	Y
Suominem 2004	D	Positive	Y	Y	N/A	N/A	N/A	N/A	Y	Y	Y	Y
Suominen 2007	D	Neutral	Y	U/C	N/A	U/C	U/C	N	U/C	Y	Y	Y
Vandewoude 2019	D	Positive	Y	Y	N/A	U/C	U/C	N/A	Y	Y	Y	Y
Wojszel 2006	D	Positive	Y	U/C	N/A	Y	N	N/A	Y	Y	Y	Y
Yap 2019	D	Positive	Y	Y	N/A	Y	U/C	N/A	Y	Y	Y	Y
Ziebolz 2017	D	Positive	Y	Y	N/A	Y	Y	N/A	Y	Y	Y	Y

Legend: Y – Yes, N – No, N/A – Not applicable, U/C – Unclear, * – Indicates hierarchy and class of studies Q1: Was the research question clearly stated?; Q2: Was the selection of study subjects/patients free from bias?; Q3; Were study groups comparable?; Was method of handling withdrawals described?; Q5: Was blinding used to prevent introduction of bias?; Q6: Were intervention/therapeutic regimes/exposure factor or procedure and any comparison(s) described in detail? Were intervening factors described?; Q7: Were outcomes clearly defined and the measurements valid and reliable?; Q8: Was the statistical analysis appropriate for the study design and type of outcome indicators?; Q9: Are conclusions supported by results with biases and limitations taken into consideration?; Q10: Is bias due to study's funding or sponsorship unlikely?