Uddrag af ESPEN guidelin	E
--------------------------	---



ESPEN Guidelines on Enteral Nutrition: Geriatrics 

D. Volkert<sup>a,-1</sup>, Y.N. Berner<sup>a</sup>, E. Berry<sup>a</sup>, T. Cederholm<sup>a</sup>, P. Coti Bertrand<sup>a</sup>, A. Milne<sup>l</sup>, J. Palmiblad<sup>a</sup>, St. Schneider<sup>a</sup>, L. Sobotka<sup>l</sup>, Z. Stanga<sup>l</sup>, DCEM: R. Lenzen-Grossinlinghaus, U. Ryys, M. Pirlich, B. Herbst, T. Schultz, W. Schröer, W. Weinrebe, J. Ockenga, H. Lochs

Clin Nutr 2006; 25: 220-360

ESPEN Guidelines on Parenteral Nutrition: Geriatrics

L. Sobotka<sup>a</sup>, S.M. Schneider<sup>b</sup>, Y.N. Berner<sup>c</sup>, T. Cederholm<sup>d</sup>, Z. Krznaric<sup>c</sup>, G. Toigo<sup>b</sup>, M. Vandewoude<sup>l</sup>, D. Volkert<sup>l</sup>

Clin Nutr 2009; 28: 461-466







ESPEN Guideline - Methods



# Clinical Nutrition 2015; 34: 1043-51



Standard operating procedures for ESPEN guidelines

- Developed according to SOPs for ESPEN guidelines
- International multidisciplinary working group
- PICO questions
- Systematic literature seach and grading (SIGN 1++ to 4)
- Creation of evidence tables
- Consensus process

Bischoff S et al. Clin Nutr 2015

ESPEN Guideline - Methods

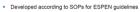


### Clinical Nutrition 2015; 34: 1043-51









- International multidisciplinary working group
- PICO questions
- PICO ques
  - Systematic literature seach and grading (SIGN 1++ to 4)
  - Creation of evidence tables
  - Consensus process

Bischoff S et al. Clin Nutr 2015







ESPEN GUIDELINES

ESPEN GUIDELINES

ESPEN Guidelines on Enteral Nutrition: Geriatrics (\*)

D. Volkert\*\*-\*, Y.N. Berner\*, E. Berry\*, T. Cederholm\*, P. Coti Bertrand\*, A. Milne\*, J. Palmblad\*, St. Schneider\*, L. Sobotka\*, Z. Stanga\*, DGEM; \*\* & R. Lenzen-Grossimlinghaus, U. Krys, M. Pirich, B. Herbst, T. Schütz, W. Schröer, W. Weinrebe, J. Ockenga, H. Lochs

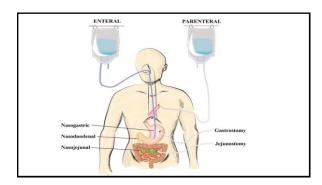
Clin Nutr 2006; 25: 220-360

ESPEN Guidelines on Parenteral Nutrition: Geriatrics

L. Sobotka\*, S.M. Schneider\*, Y.N. Berner\*, T. Cederholm\*, Z. Krznaric\*, G. Toigo\*, M. Vandewoude\*, D. Volkert\*

Clin Nutr 2009; 28: 461-466















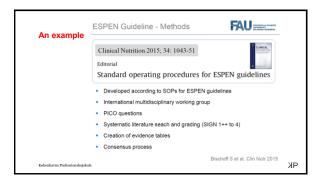


Recommendations .	
-------------------	--



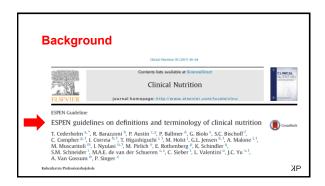
# II. ... for older persons with (risk of) malnutrition

- 1. Supportive interventions (6 rec.)
- 2. Nutritional counselling (2 rec.)
- 3. Food modification (3 rec.)
- 4. Oral nutritional supplements (6 rec.)
- 5. Enteral and parenteral nutrition (12 rec.)
- 6. Exercise (2 rec.)









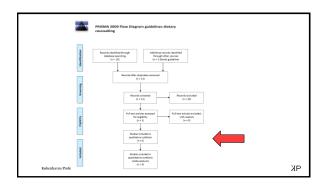
Background						
ELSEVIER	Contents lists available at ScienceDirect  Clinical Nutrition  journal homepage: http://www.elsevier.com/locate/clnu	CLINICAL NUTRITION PARTICIPATION				
ESPEN Guideline ESPEN guidelines on nutrition in cancer patients <sup>th</sup> Jann Arends <sup>4</sup> , Patrick Bachmann <sup>5</sup> , Vickie Baracos <sup>c</sup> , Nicole Barthelemy <sup>d</sup> , Hartmut Bertz <sup>a</sup> ,						
København	s Professionshøjskole	ЧK				

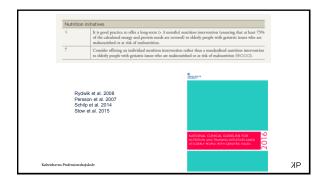
# **Specific definition**

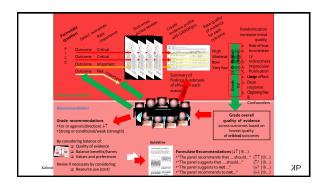
Specific definition

Nutrition counselling by a health care professional is regarded as the 1st line of nutrition therapy. Professional counselling, as distinct from brief and casual nutritional "advice", is a dedicated and repeated professional communication process that aims to provide patients with a thorough understanding of nutritional topics that can lead to lasting changes in eating habits. Nutritional counselling includes nutritional history, diagnosis, and nutrition therapy and may be combined with educative group sessions, written advice and/or telephone contacts. The counselling should be performed by trained nutrition professionals (registered/ accredited deticans or nutritionists) based on the nutrition care process. In frail geniatric patients that are malinourished or at risk of mainutrition, counselling should be performed with the aim to increase detary intake. Clearly, the best way to maintain or increase energy and protein intake is with normal food. However, this is often difficult and in these cases, counselling should recommend adding other types of interventions, such as using ideatry fortification to optimise the energy and protein interse of the det without increasing quantity; and/or adding extra snacks or drinks and/ or oral nutritional supplements (adapted from Arends et al. 2016)

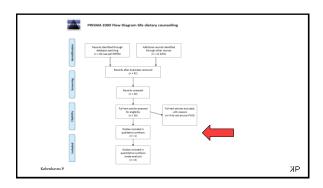
ЧΚ

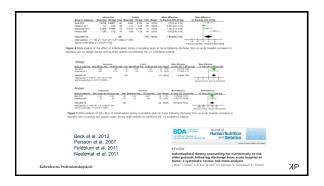
















Consider	ations
	Comments
Quality of the evidence	High level quality of SLR and guideline (but not of included primary studies)
Consistency of study results	All are in favour of intervention
Clinical relevance of end-points	Biomedical and patient-centred reported (see table 4 in SOP)
Effect sizes	Small
Risk-benefit ratio	No adverse events reported
Patient preferences	An individual offer may be better to tackle the very different causes to malnutrition in the target group
	Specifically for frail/unlenshie oid people suffering from diabetes, CVD or their food-related flethey diseases an individualised approach is needed in order to explain the difference between the clietary advices for freed diseases and those amend at tacking underuntition. Knowledge of the effect of a minitronal intervention is expected to be important among all he health care professionals, which is involved in motivate the history of the control of the control of the require training in the field.
Application to health care	There is a need for dietetic expertise to handle the intervention
setting	
Legal considerations	None
Economic considerations	Advice given by dieticians to geriatric patients discharged from hospital may

# Recommendations

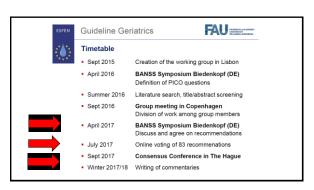
Frail, vulnerable older persons with malnutrition or at risk of malnutrition shall be offered individualised dietary counselling in order to improve dietary intake and maintain nutritional status (Grade of recommendation A, [BM]

Individualized dietary counselling should be offered by a qualified dietician to these persons or their caregivers, should consist of several (at least 2) individual sessions that may be combined with group sessions, telephone contacts and written advice and should be maintained over a longer period of time (at least 8 weeks) (Grade of recommendation GPP,)

Individualized dietary counselling should be combined with other types of interventions if necessary (Grade of recommendation  $\mbox{\bf GPP}).$ 

Københavns Professionshøjskol

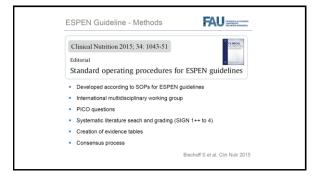
ЧΚ



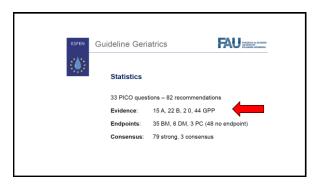
Older persons with malnutrition or at risk of malnutrition and/or their caregivers should be offered individualized nutritional counselling in order to support adequate dietary intake and improve or maintain nutritional status. (BM) Grade of recommendation B – strong consensus (100 % agreement)

Individualized nutritional counselling should be offered by a qualified dietician to these persons and/or their caregivers, should consist of several (at least 2) individual sessions that may be combined with group sessions, telephone contacts and written advice and should be maintained over a longer period of time (at least 8 weeks - deleted). Grade of recommendation GPP – strong consensus (97 % agreement)

Individualized dietary counselling should be combined with other types of interventions if necessary (Grade of recommendation  $\ensuremath{\mathsf{GPP}}$ ). -  $\ensuremath{\mathsf{deleted}}$ 









# Ernæring til Geriatriske patienter

Mandag den 20. januar 2020 kl. 16.00 – 18.45 Aarhus Universitetshospital, Skejby, Indgang J. auditorium J 116-113\*, Palle Juul-Jensens Boulevard 99, 8200 Aarhus N

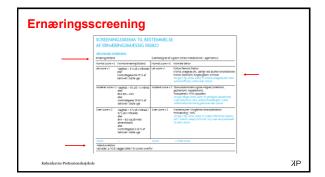
Hospitalized older persons with malnutrition or at risk of malnutrition shall be offered ONS, in order to improve dietary intake and body weight, and to lower the risk of complications and readmission. (BM)
Grade of recommendation A – strong consensus (100 % agreement)

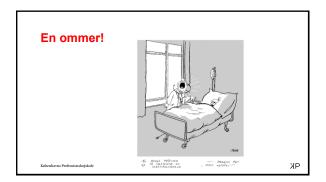
Hospitalized older persons with malnutrition or at risk of malnutrition shall be offered ONS, in order to improve dietary intake and body weight, and to lower the risk of complications and readmission. (BM)
Grade of recommendation A – strong consensus (100 % agreement)

Protein supplementation combined with low-intensity resistance training in geriatric medical patients during and after hospitalisation: a randomised, double-blind, multicentre trial

Average protein and energy intake during the study periods, by treatment group\*

	Dur	ing the ho	spital admi	ission	Duri	ng the 12 w	eeks after di	charge
	Protein		Placebo		Protein		Placebo	
	Median	Q1, Q3	Median	Q1, Q3	Median	Q1, Q3	Median	Q1, Q3
From the diet <sup>‡</sup>	(n=	=70)	(n:	=74)	(n=	70)	(n=	=71)
-Protein (g/d)	42	36, 52	42	30, 52	54	43, 64	56	44, 68
-Protein (g/kg <sup>§</sup> /d)	0.6	0.5, 0.8	0.6	0.5, 0.8	0.8	0.7, 1.0	0.8	0.6, 1.0
-Energy (MJ/d)	5.3	4.4, 6.2	5.1	3.7, 6.0	5.4	4.8, 6.8	5.8	4.9, 7.2





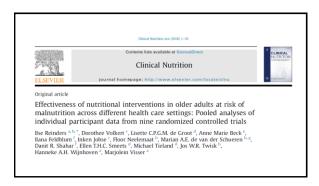
After discharge from the hospital, older persons with malnutrition or at risk of malnutrition shall be offered ONS in order to improve dietary intake and body weight, and to lower the risk of functional decline. (BM) Grade of recommendation A – strong consensus (100 % agreement)

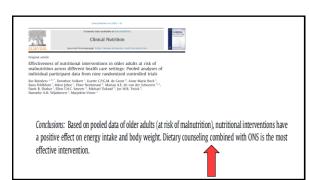
After discharge from the hospital, of shall be offered ONS in order to imrisk of functional decline. (BM) Graagreement)	prove dietary intake	and body weig	ht, and to lower t	he
3	Afdelingsstempel eller Lægestempel	Ordination of ernærings- præparater		
	Navn, adresse Opr.nr.	and and		
	Ordination (cyal): a sessor to various scenario			
	rp: "sondeernæringens navn" ds: ml daglig	type 2		
	rp: ernæringssæt rp: "remedier" (ex. Janetsprejt	e.e.)		
	rp: evt. leje af pumpe. Udleveres efter behov			
	10, 2007 (1000)	_		

Older persons with malnutrition or at risk of malnutrition and/or their caregivers should be offered individualized nutritional counselling in order to support adequate dietary intake and improve or maintain nutritional status. (BM) Grade of recommendation B – strong consensus (100 % agreement)







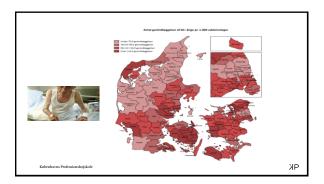


# THE LANCET Refrigerator content and hospital admission in old people Nadir Bournendel, François Herrmann, Véronique Ginod, Cornel Sieber, Charles Henri Rapin I Danmark udskrives ca. 50 % af de geriatriske patienter med en genoptræningsplan (GOP) pga. tab af fysisk funktionsevne – kun ca. 10 % af disse har en op-ernæringsplan (OP)

During periods of exercise interventions, adequate amounts of energy and protein should be provided to older persons with malnutrition or at risk of malnutrition in order to maintain body weight and to maintain or improve muscle mass. (BM) Grade of recommendation B – strong consensus (100 % agreement)







Simple signs and tests commonly used to assess low-intake dehydration such as skin turgor, mouth dryness, weight change, urine color or specific gravity, shall NOT be used to assess hydration status in older adults. (DM) Grade of recommendation A – consensus (83 % agreement

Bioelectrical impedance shall NOT be used to assess hydration status in older adults as it has not been shown to be usefully diagnostic. (DM)

Grade of recommendation A – strong consensus (100 % agreement)



