

Assessment

Assessment is the second step of an efficient nutritional management. It is a detailed, more specific and in-depth evaluation of the causes of malnutrition and the risk factors for nutrition and fluid deficiency.



The assessment should be performed by a nutritional expert (e.g. a dietitian, a physician with nutrition expertise, or a nutrition nurse specialist) or by a nutritional support team.

The completion of the assessment allows tailored interventions contributing to a better outcome of the resident.



Risk factors of malnutrition and patient related actions

Assessement is a detailed examination of the risk factors and causes of malnutrition considering underlying diseases and possible side-effects. It includes the evaluation or measurement of general risk factors of malnutrition, social and psycho-social risk factors, nutrition related risk factors, and, where appropriate, laboratory investigations (e.g. blood parameters).

The following table gives you an overview about risk factors of malnutrition and respective examples of patient related actions for a successful intervention.

Comments

PEMU Assessment (adapted)

Physical or cognitive impairment

Other reasons:

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Examples of possible reasons for a reduced food and/or fluid intake

Cognitive decline	e.g. caused by dementia; doesn't know what to do with the food
☐ Impaired function of arms and hands	e.g. accessibility of meals and beverages; can't hold the cutlery
☐ Bad condition of the mouth	e.g. dry mouth, mucositis
☐ Chewing/dental problems	
☐ Swallowing problems	e.g. chokes easily, coughs a lot while eating/drinking, avoids certain food items
Lack of appetite/refusal of food	Comments
Psychological stress (e.g. social isolation)	
☐ Acute disease	
☐ Pain	
☐ Lack of exercise	
☐ Medical side effects	e.g. type, number of different drugs
☐ Taste and smell disorder	
☐ Reduced sensation of thirst	
Desire for a reduced urinary excretion	e.g. fear of incontinence
Cultural/religious/individual habits	
Fear of food intolerance/allergies	
Environmental factors	Comments
Sense of discomfort during mealtime	
☐ Inadequate mealtimes	e.g. timing, duration, flexibility
☐ Inappropriate/lack of tools	
☐ Tensed relation to the care attendants	
Food/beverage offer	Comments
☐ Dissatisfaction with the offer	e.g. cultural preferences, food choices
☐ Inappropriate consistency	
■ Non-compliance with prescribed diet/	
inappropriate diet suspected	
Other reasons:	Comments
Examples of possible reasons for an in	ncreased need of energy and/or fluids
	Comments
☐ Due to illness	e.g. fever, infections, tumour, decubitus, diarrhoea, constipation
☐ Hyperactivity/restlessness	e.g. constant walking, possibly related to cognitive disease
☐ Heavy sweating	e.g. overheated rooms, inappropriate clothing

Source: 1 DNQP (2009), PEMU. Andruck im Expertenstandard für die Pflege: Ernährungsmanagement, Deutsches Netzwerk für Qualitätssicherung in der Pflege, Osnabrück. www.dngp.de

Comments

$Step\ 2\ \textbf{Assessment}\ |\ \mathsf{food}\ \mathsf{and}\ \mathsf{fluid}\ \mathsf{intake}$

Assessment of nutritional intake

The food intake of many residents deteriorates over time or during a stay in a hospital. The best way to identify residents at risk of malnutrition is to record their intake of foods and fluids – from admission onwards.

The Food & Fluid protocol is the basis to determine the optimal nutrition therapy plan of the resident. It is part of the Assessment (Step 2) as a 3 day review of food intake and part of a regularly documentation of the nutritional status during Monitoring (Step 4).

Food protocol - Is your resident eating enough?

The food protocol helps to record the intake of a resident, indicating the proportion of a meal that has been eaten (100 %, 75 %, 50 %, 25 %, 0 %; corresponding to 4, 3, 2, 1, 0 quarters of a plate). The food protocol helps to document and to control the food intake of the resident to be able to define the nutrition therapy plan (Step 3) by calculating the necessary supplementation.

Example: Patient is offered 2000 kcal

ample: P	atient	is offere	d 200	O kcal		
						_

23.9.15 Date	kcal	g protein	Normal diet	Description/type	INI	Supplementation: type and quantity (ONS/tube feeding, parenteral)	INI
Breakfast	200	10	XX	2 Sandwiches with butter and jam	Ma		
Snack	150	8	X ₩	Fruit joghurt	Ma		
Lunch	700	20	XX	Menu 3	Ma		
Snack	200	12	#				
Dinner	250	10	XX	Ham sandwich		1 bottle ONS	Fa
Night snack	-	-	\oplus		Fa		

□ Assessment (3 days) □ Monitoring (at least once a week) Legend: Normal diet 0 ⊕ 1/4 ⊕ 1/2 ⊕ 3/4 ⊕ 1/1 ⊕

23.9.15 Date	kcal	g protein	Normal diet	Description/type	INI	Supplementation: type and quantity (ONS/tube feeding, parenteral)	INI
Breakfast							
Snack							

Fluid protocol - Is your resident drinking enough?

The fluid protocol helps to record the daily fluid intake of a resident, indicating the amount of fluid which is consumed over the whole day per os, food, ONS, tube feeding and/or parenteral nutrition. The Fluid protocol helps to document and to control the fluid intake of the resident to be able to define the nutrition therapy plan (Step 3) by calculating the needed fluid substitution of the resident.*

		Assessment			Monitoring								
		3 days review of fluid intake		1	2	3	4	5	6	7			
	Date	23.9.	24.9.	25.9.	24.1 0.								
	ml	150	150	150	100								
150ml	ml	150	150	100	150								
Cup	ml	200	250	250	150								
	ml	250	250	250	250								
	ml		50	100	250								
200 ml	ml			50	100								
	ml												
Glass/ bowl	ml												
	ml												
	ml												
Fluid int	ake via ONS (ml)	7-50	850	900	1000								
	tent of food nl/kcal) (ml)	561	660	627	693								
Water con and/or tub	tent of ONS be feed* (ml)	312	312	200	234								
₩ate parente	r content of ral / infusion plution* (ml)	-	-	-	-								
	= Total fluid intake (ml)		1820	1730	1930								

^{**} Please find the water content on the product label.

Fluid substitution = Fluid requirement - total fluid intake

Fluid substitution (ml)	525	325	415	215			
Initials	Fa	Mü	Mü	Fa			

^{*}Example: 63 kg resident with a fluid requirement of 2145 ml. (see page 27)

Calculation of fluid substitution

FLUID SUBSTITUTION = Fluid requirement - total fluid intake

*Calculation basis:

Fluid intake per os in ml

- + Water content of food (0.33 ml/kcal) in ml
- + Water content of ONS and/or tube feed in ml
- + Water content of parenteral nutrition in ml
- = TOTAL FLUID INTAKE in ml

Please note: Further details on calculation of fluid substitution are given on page 27.

