

PR2.F - Caso di Studio - Anoressia

Descrizione del caso

- Una paziente di 14 anni si presenta accompagnata dai genitori a un consulto psichiatrico e dietetico a causa di una progressiva e costante perdita di peso di 19 kg nell'arco di 9 mesi, con amenorrea, attività fisica intensa e duratura
- > I genitori hanno riferito una graduale riduzione dell'assunzione di cibo nel corso dell'ultimo anno, con una forte restrizione di cibi ipercalorici o di dolci.
- La paziente è stata diagnosticata come anoressia nervosa ed è stato avviato un trattamento psichiatrico, con monitoraggio domiciliare in seguito al rifiuto dei genitori di ricoverarla.
- E stato avviato un intervento multidisciplinare con monitoraggio psichiatrico, dietetico, familiare e terapia cognitivo-comportamentale.
- A seguito di un diario alimentare presentato dalla famiglia, è stato individuato un apporto calorico medio di 670 kcal/giorno, con 34 grammi di proteine, 82 grammi di carboidrati e 21 grammi di lipidi - nonostante la gravità della situazione e i rischi associati siano stati spiegati loro, i familiari rifiutano con veemenza il ricovero in ospedale

Questions

Utilizzando le informazioni fornite, determinare:

- la situazione antropometrica del paziente in relazione all'età
- il fabbisogno energetico per mantenere il peso attuale
- il fabbisogno nutrizionale (calorie e macronutrienti) per il riequilibrio ponderale
- le raccomandazioni di base per l'attività fisica
- aspettative a breve termine (4 settimane)
- approccio dietetico in caso di mancato raggiungimento dell'obiettivo prefissato
- aspettative a lungo termine (2 anni)





Example of a dietary approach to the presented case

Anthropometric and nutritional assessment

-	14y 1m (169 months), female						
	Value Imperial %ile Z-score 50%ile						
	Weight (kg)	21	46.3 lb	0%	-7.69	49.6	
	Stature (cm)	149	58.7 in	4%	-1.76	161	
1	Wt-for-stature (kg)						
	BMI-for-age	9.5		0%	-10.35	19.4	

Estimated Daily Caloric Needs	2,228 kcal/day

Macronutrients:

Macronutrient	Recommended Intake Per Day
Carbohydrate	251 - 362 grams 1
Total Fiber	26 grams
Protein	18 grams
Fat	62 - 87 grams 🚯
Saturated fatty acids	As low as possible while consuming a nutritionally adequate diet.
Trans fatty acids	As low as possible while consuming a nutritionally adequate diet.
α-Linolenic Acid	1.1 grams 🚯
Linoleic Acid	11 grams 🖲
Dietary Cholesterol	As low as possible while consuming a nutritionally adequate diet.
Total Water	2.3 liters (about 10 cups) 🚯

Establishing nutritional requirements

A food plan was initiated with 1000 kcal for a period of 1 week, with a gradual increase of 100 kcal/week until reaching an intake of 2000 kcal/day, with the possibility of modification according to evolution



	At initiation	6 weeks interval	12 weeks interval
Proteins (g)	49	78	83
Lipids (g)	26	43	64
Carbohydrates g)	135	214	258
Calories	1000	1600	2000

- A food plan consisting of 5 solid meals and 2 high-protein snacks/day, based on low-volume food supplements, was implemented
- We recommended a reduction in physical activity to 45-60 minutes/day, 3-4 days a week

Re-evaluation at four-week interval

14y 2m (170 months), female						
Value Imperial %ile Z-score 50%ile						
Weight (kg)	22.4	49.4 lb	0%	-6.99	49.9	
Stature (cm)	149	58.7 in	4%	-1.79	161	
Wt-for-stature (kg)						
BMI-for-age	10.1		0%	-8.87	19.4	

Estimated Daily Caloric Needs	1,840 kcal/day
-------------------------------	----------------

Macronutrients:

Macronutrient	Recommended Intake Per Day				
Carbohydrate	207 - 299 grams 🐧				
Total Fiber	26 grams				
Protein	19 grams				
Fat	51 - 72 grams ❸				
Saturated fatty acids	As low as possible while consuming a nutritionally adequate diet.				
Trans fatty acids	As low as possible while consuming a nutritionally adequate diet.				
α-Linolenic Acid	1.1 grams €				
Linoleic Acid	11 grams ❸				
Dietary Cholesterol	As low as possible while consuming a nutritionally adequate diet.				
Total Water	2.3 liters (about 10 cups) 🐧				

Continued with a 1500 kcal food plan, with a gradual increase to 1800 kcal/day





- > Following the reassessment, a positive, slow weight evolution was observed
- > The patient managed to ensure her established caloric needs on most days, but with a feeling of guilt
- > The diet was based on liquids and semi-solids, served under parental supervision
- ➤ The transition was made to 3 main meals and 3 high-calorie/high-protein snacks based on dietary supplements
- Weight evolution was positive but slow
- Psychiatric development was improved
- The patient was unable to exceed a caloric intake of 1400-1500 kcal/day. It was recommended to increase the number of meals (on the principle of small and frequent meals), with 4 low-volume high-calorie/highprotein snacks, 2 of them served during the night

14y 6m (174 months), female						
Value Imperial %ile Z-score 50%ile						
Weight (kg)	27.3	60.2 lb	0%	-5.07	50.8	
Stature (cm)	150	59.1 in	4%	-1.73	161	
Wt-for-stature (kg	J)					
BMI-for-age	12.1		0%	-5.4	19.6	

Weight evolution after personalized dietary intervention at about two years

14y 1m (169 months), female Value Imperial %ile Z-score 50%ile Weight (kg) 21 46.3 lb 0% -7.69 49.6 Stature (cm) 149 58.7 in 4% -1.76 161 Wt-for-stature (kg) BMI-for-age 9.5 0% -10.35 19.4



- The patient's condition was considerably improved
- Drug treatment, therapy, and dietary intervention continued

16y 3m (195 months), female						
Value Imperial %ile Z-score 50%ile						
Weight (kg)	44.1	97.2 lb	7%	-1.49	54.2	
Stature (cm)	156	61.4 in	15%	-1.03	163	
Wt-for-stature (kg))					
BMI-for-age	18.1		16%	-0.98	20.6	