# CHS – 453 Practicum II in clinical nutrition

1<sup>st</sup> Exam

Name:

Student number:

### Question I:

Salem.S. is an 8 yrs old Saudi male. k/c of ALL, allogenic BMT 3/12 ago. He was diagnosed with ALL @ the age of 6 when he was admitted several times c/o splenomegaly and low-grade fever of unknown etiology. Further investigations were done and examination bone marrow sample showed the presence of leukemic blast cells consistent with ALL.

During the next 2 yrs he underwent intensive cycles of chemo and radiotherapy , and 3/12 ago he had an allogenic BMT. He was doing fine after until 5 days ago when started developing skin rash, he presented to the ER with generalized skin rash, diarrhea, and abdominal cramps. He was admitted for further blood work and gastrointestinal endoscopy , $\Delta$ GVHD.

Upon interview, his mother reported that he has fair appetite and food intake, has lost more than 5 kgs ever since he was diagnosed with ALL, dislikes egg and red meat.

Current Wt = 18.5 kg, Ht = 116, Meds : Cyclosporine and Pridnisone,

Diet Rx: DFA.

## Labs:

WBC	3.0	3.3-8.7 K/uL
Neutrophils	2.6	3-5%
RBC's	3.9 L	3.93-5.69 M/uL
Hgb	11	12.6-16.1 g/dL
Hematocrit	35	35-45%
MCV	70	$77-95 \mu m^3$
Calcium	9.3	8.8 - 10.3 mg/dL
Chloride	99	95 - 107 mmol/L
Magnesium	1.9	1.6 - 2.4 mmol/L
Phosphate	3.6	2.5 - 4.5 mg/dL
Potassium	3.7	3.5 - 5.2 mmol/L
Sodium	140	135 - 147 mmol/L

Using the above mentioned information please answer to the following questions: 1. Perform an assessment based on the anthropometric data. (show all calculations) (3.0 Marks) 0,25 Wt/age is <5th /. , IWt/age = 26 0.25 , % 0.25 IWt/age = ...18.5 / 26 = 72.5 %0.25 Wt/Ht is on 54 /. IWt/Ht = 20.7 0.25 0.25 BMI =  $18.5 / 0160^2 \times 10000 = 13.7$  and its < 5 M //Acute malnutrition status =  $18.5 / 20.7 \times 100 = 89.5 \times 100 = 89.5 \times 100 = 90.6 \times 100 \times 100 \times 100 \times 100 \times 1000 \times$ Wt - Age = 54rs 6,25 Calculate nutritional requirements 275 Energy: 90 x 26 /18.5 = 126 Kal x 18.5 = 2340 Kal Protein:  $1.1 \times 26 / 18.5 = 1.59 \times 18.5 = 28 \text{ gm} = 9.87$ give up to 10-15%. 57-869+10-15 / % of kcal)  $0.9 \, \text{Fat}$ :  $0.9 \, \text{x} \, 2340/9 = 109 \, \text{g}$  (90% % of kcal) 0.5 CHO: 0.5 x 2340/4 = 292.5 gr (50% % of kcal) Provide 1 Kcal, 1 protein supplement ey: pediasure Boost ---

1.	Calculato	exchanges	for most	nlanning
1.	Calculate	CALITATIECS	IUI IIICAI	piaililling

(1.5 Marks)

Exchanges	CHO gm	Pro gm	Fat gm
Milk (1-2)			
Veg. (2-5)			
Fruits (2-3)			
	Total =	Total =	Total =
Bread(6)			
		Total =	Total =
Meat (3-4)			
			Total =
Fat (Y-5)			

2. Discuss your recommended diet therapy	(2.0Marks)
5 - 1 Kul , 1 port diet.	
G- & Microbial diet.	
5- Iron Rich Good.	
0.5- Iron Rich Bood. 0.5- 1 kul, 1 prot supplement.	

# 4. Write a full day menu

(2.5 Marks)

Meal -	Food Item		amount	List	# of Ex.	
	e de la composición del composición de la compos	27-11 (d. 60%)	and the second second second			
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5. Write a full SOAP note . (3.5 Marks)

## **Question II**

Norah is a 56 yrs old Saudi female , transferred to ward 32 A through ICU, where she was admitted 5 weeks ago with left arm pain radiating to shoulders, chest pain and difficulty of breathing and LLE. She is a known case of HTN for 10 yrs and NIDDM for  $14 \text{ yrs.} \Delta \text{CHF}$  and respiratory failure.

Ht = 153, Wt = 95 kg, Diet Rx: low cholesterol 2000 kcal.

#### Labs:

Random glucose	8 mmol/L		
Sodium	140 mmol/L	135 – 147	mmol/L
Chloride	100 mmol/L	95 - 107	mmol/L
Potassium	4.5 mmol/L	3.5 - 5.2	mmol/L
Urea	7.5 mmol/L	3 - 7	mmol/L
Creatine	80 μmol / L	50-90	μmol / L

Upon interview, her watcher reported that he has a fair food intake and appetite .no known allergies or disliked.

## Using the above mentioned information please answer to the following questions:

1. Perform an assessment based on the anthropometric data. (show all calculating the state of th	ons) (3.0 Marks)
0.75 dry wt = 95 -2 = 93 kg	
0.5 BHI= 93 / (1.53)2 = 39.7 kg/m2 (obe	
0.5 IBW = 22.1x (1.53)2 = 51.7 kg	
0,5 / IBW = 93/51.7 kg = 179.8 / (obese)	
0,75 Adj wt = (93 - 51.7)x0.25 + 51.7 =	62 kg
	J

2. Calculate Energy and nutrient requirements	(3.0 Marks)
2. Calculate Energy and nutrient requirements 0.75 BEE = 655 + (9.56 × 62) + (1.85 × 153) - (4	1,88x S6)
$= 1268 \times 1.2$	
= 1522 ky/dy. 0.75 post 17% = 0.17x 1522/4 = 64.6 g-	(19m/ky)
075 CHO 53% = 0.53 x 1522/4 = 201.6 gr	,
0.35 Fet 30% = 0.30x 1522/9 = 50.7 gm	
U.	

3. In highlight of the given diet Rx, discuss your recommended dietary intervention:	(4.0	Marks)
0.5 - Diebelic diet		
1.5 - I salt - Flid restriction		
0.5 - 4 gas forming + Stimulant		
0.5 - wt reducing plan		
0.5 - wt reducing plan 0.75 - & Cholestrol Triber & Pat		
0.25 - if she put the pt on 1 kul. 1 prot diet.		

Best wishes