



DIET PLANNING FOR TYPE 1 DIABETES

BY

S.RAMYA HOD, DEPT OF DIETETICS APOLLO FIRST MED HOSPITALS



- To provide adequate nutrition to maintain normal growth & development
- To improve glucose control
- To alleviate symptoms
- To prevent long term complications
- To provide information on current research to help family make appropriate nutrition decisions



DEPARTMENT OF DIETETICS

NUTRITION ASSESSMENT FORM FOR PAEDIATRICS





Anthropometric M	leasurements	
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			L	100
S.No	Weight:		Weight for Height (Wasting)	
1.	Admit Wt:	kg	Normal	90% to 110%
	Usual Wt:	kg	Mild	80% to 89%
	Weight for height:	kg	Moderate	70% to 79%
	% Weight for height:	%	Severe	<70% or with edema
	5 – 10 % weight loss	5		
	> 10% Wt. Loss			
S.No	Height:		Height for Age (Stunting)	
2.	Height: cms		Normal	95% to 105%
	Ideal Height for age:	cms	Mild	90% to 94%
	%Height for age:	%	Moderate	85% to 89%
			Severe	<85%

Feeding					
Chewing / Swallowing difficult					
3⁄4 3 days of NBM, dextrose, and or clear liquids only					
TPN / PPN / Tube feeding					
GI Symptoms					
Loss of appetite (< ½ trays) Nausea					
Vomiting Diarrohea (> 1week)					
Nutrition related diagnosis					
Malnutrition Sepsis					
Dysphagia Cardiac / Renal / Hepatic diet restrictions					
AIDS Juvenile Diabetic					
Others					
Food allergies (if any):					
Food Preferences: Veg Non - Veg Jain Others					
No further nutrition evaluation recommended at this time.					
Acute malnutrition					
Chronic malnutrition					
Acute on chronic malnutrition					
May benefit from diet counselling					
Diet Counselling done.					
Diet Recommended:					
Dietitian's Signature: Date:					





NUTRIENT RECOMMENDATIONS

- Calories Based on nutrition assessment & growth requirements
- CHO & MUFA Together provide 60-70% calories
- Protein 15-20% of total calories
- Fat Saturated fat < 10% total calories

Adapted from American Diabetes Association



DIET PLANNING



- 3 meals and 3 snacks
- Individualized acc. to patient's culture & food choices
- Food intolerances, allergies
- Family eating habits & meal patterns
- School routine
- Growth spurts
- Nutrient dense snacks to avoid hypoglycemia

 During the day, exercise induced & nocturnal





NUTRITION CONSIDERATIONS

СНО

- Consistency in intake
- Even distribution of CHO
- Carry fast acting CHO
- Emphasis on whole grains, fruits and vegetables
- Fiber intake as recommended for age





NUTRITION CONSIDERATIONS Cont

SUCROSE

- As part of total CHO does not impair BG control
- Sucrose sweetened beverages to be avoided

CHO COUNTING

- Strategy to achieve BG control
- Flexibility in food choices & simplification of meal planning.





NUTRITION CONSIDERATIONS Cont

Proteins

- Adequate to ensure growth & maintenance of body stores
- Include from animal & vegetarian sources
- Limit protein sources high in fat





NUTRITION CONSIDERATIONS Cont

FATS

- ↓ total fat and saturated fat intake
- Avoid trans fats

INSULIN

Dose to be correlated with food intake





NUTRITION EDUCATION

- Basic food & meal planning guidelines
- Sources of CHO, proteins & fats
- Avoid omitting or delaying meals or snacks
- Understanding nutrition labels
- Guidelines for eating out
- Adjustments in CHO or insulin for exercise
- Self-monitoring of BG levels



EXERCISE

- Consume snack before, during & after exercise
- Check BG before & after activity
- Avoid if BG>250mg/dl, presence of ketones
- Avoid if BG>300mg/dl
- Eat a snack if BG<100mg/dl





NUTRITION EDUCATION Cont.

Sick day management

- Continue insulin
- To eat small frequent meals
- In vomiting, diarrhea, fever- small amounts of liquids every 15-30mins
- Monitor BG levels & insulin requirements





NUTRITION EDUCATION Cont.

- Inform school authorities & physical activity instructor
- Adhere to meal & snack timings
- Awareness of signs, symptoms & prevention of hypoglycemia
- Follow-up periodically





THANK YOU