



DEPARTMENT OF FOOD AND NUTRITION

TTWRDC (W) MAHABUBABAD-506101

STUDENT'S STUDY PROJECT



Topic: Diet plan for Hepatitis.

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Undertaken by J. Kalyani

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projekt WORK

Food AND
NUTRITION

Title of project :- Diet plan for hepatitis

subject :- Food & Nutrition

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Number of team :- 5

Number of the project :- Diet plan for hepatitis

class :- III FNZC

Name of the team :- Hepatitis

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Hepatitis

Introduction

Hepatitis may occur due to reaction with drugs toxic agents and various viruses. The most common form of hepatitis is that caused by faecal contamination of food and water with type A virus, serum hepatitis, TYPE B is next most frequently occurred form.

Symptoms

Child constant abdominal pain, malaise, easy fatigability, upper respiratory systems, anorexic, nausea, frequently episodes of vomiting along with diarrhoea or constipation may occur during the initial stages. Jaundice occurs in 5-10 days and there is worsening of the above mentioned symptoms. In the convalescent phase increase sense of well being return of appetite along with reduction in the severity of jaundice, abdominal pain, tenderness of liver and fatigability is experienced.

While the above mentioned may subside in 2-8 weeks, complete recovery take a long-time majority of the symptoms associated with the form. Jaundice adversely affect food intake for the patient may also experience low grade fever these.

There by increase nutritional demands on the body, efficient treatment and management of hepatitis is best to prevent its progression towards cirrhosis/hepatitis encephalopathy etc... let us then study about the treatment of Hepatitis.

Treatment

Dietary management to maintain a good nutritional status.

and rest on avoidance of strenuous physical activity if required (non-metabolism) avoidance of hepatotoxic agents particularly alcohol. Let us focus on the dietary management of hepatitis.

Dietary Management of Hepatitis

Irrespective of the cause of hepatitis regeneration of the liver cells is essential to promote recovery and hence the proper functioning of the organs. Relapse of hepatitis progression of acute hepatitis to chronic forms. cirrhosis in many at times due to impaired nutritional status. being a store house for several nutrients (vitamins & minerals). The nutritional reserve may get depleted during hepatitis. the major objectives of dietary management include:

- promote a positive energy and nitrogen balance
- promote recovery and prevent progression of the disease.
- replenish the depleted reserves and
- ensure satisfactory convalescence and maintain optimum nutritional status.

We will now discuss the nutrient modifications necessary to promote quick recovery and prevent further degeneration of hepatic cells. Let us start with the calorie requirement.

~~Energy~~ := Majority of the patients experience weight loss and malnourished due to reduced food intake. low grade fever is generally present during viral hepatitis which also imposes increased demands for calories due to increased basal metabolic rate. Adequate energy intake is essential to ensure proper utilization of protein, the requirements may increase by 15-30% depending upon the nutritional status. However, the energy intake should be increased gradually. An aggressive increase in energy intake may result in aggravating gastrointestinal disturbance due to

Severity of jaundice during the early stages it may not be visible to provide more than 1200kcal per day.

However during the convalescence phase, adequate intake of energy is feasible and a must to ensure complete recovery, if the patient is grossly underweight the energy intake may be calculated 3.5 kcal/kg IBW to ensure weight gain and replenishment of glycogen.

~~protein~~ The protein intake should be increased by 50% in mild and moderate cases of hepatitis. i.e., patient should be given $1.5 - 2.0 \text{ gm protein per kg IBW}$ the protein intake should not exceed $1.0 \text{ kg/kg IBW/day}$ i.e., the protein should be provided as per the RDI.

~~fat~~ Fat should not be severely restricted as they can make the food unpalatable. About 20% of the total calories should be from fat. MCTs are preferred as they are easily digestible and assimilable (40-50g). For example, dairy fat and butter are preferable.

~~bohydrates~~ In mild and moderate case of hepatitis, carbohydrates should provide at least 60% of the total energy. Total intake of carbohydrates help in replenishing the glycogen. However, in severe chronic hepatitis determining the carbohydrates needs is often a challenge because liver failure reduces glucose production, glucose utilization and there is preference for the use of lipids and proteins as alternative sources of protein. In such situations the carbohydrates intake should not exceed 60% of the total energy. Emphasis should be laid on the inclusion of food rich in monosaccharides, disaccharides and starches. Dietary fibre intake should be kept minimum. All fibre rich food should preferably be avoided and if given should be in a well-cooked form. Thus include good amounts of glucose, jaggery, honey, sugar, agave, refined flours, starchy roots and tubers (potato, yam, colocasia etc).

high carbohydrate fruits (banana, mango, sapota, raisins etc)

Vitamins & Minerals :-

Impaired liver function and its associated symptoms can result in increased demand of B-group vitamins, ascorbic acid, vitamin-A, K, calcium and iron. Among all the nutrient malabsorption is the greatest; therefore β-carotene rich foods should be included in the diet. Included adequate amount of fresh fruits and vegetables. In soft cooked form such as mashed pureed vegetables, vegetable soups, fruit juice, juiced fruit, fruit jellies, fruit jam, milk shakes etc.

~~Liquids~~ Fluids intake should may need to be increased, if the patient is suffering from diarrhoea and/or constipation. In the above cases include good amounts of clear and full fluid in diet such as:

~~Clear Fluids~~ = coconut water, tea or coffee (without milk), pulpy water, strained vegetable/pulses/meat soups, strained juices, strained carrot/rice kanji etc.

~~Full Fluids~~ = Milk based beverages such as tea, coffee, milk, shakes, souffle, baked, custard, soup, juice, egg nog, fruit juices etc.

General considerations

~~Other consideration include :-~~

High energy, high protein diet should be given to patients suffering from mild to moderate hepatitis during acute hepatitis so if vomiting/diarrhoea is present, a full fluid or a semisoft diet may need to be given. Small frequent easy to digest bland meals should be given to the patients. The meals should particularly be mechanically and chemically bland.

Rinner

Pie and	Rice
vegetable	carrot
curry	potato
tomato	onion
green peas	

50g	116.54 kcal
10g	4.325 kcal
10g	6.985 kcal
20g	11.85 kcal
10g	6.133 kcal

Total:-	116.54 kcal
100ml	68 kcal
10 gms	35.410 kcal

Total:-	15.49
1000 ml	67.1289
100g	2700.07
Modified RDA	1000 kcal
	60.10g
	30g

✓ Verified by
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