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## Dietary management of hepatic encephalopathy

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > ... > [BMJ](#) > v.318(7195); 1999 May 22

May 22, 1999 · **Dietary management of hepatic encephalopathy.** Protein energy **malnutrition**, defined by **anthropometric** criteria, may occur in 20-60% of **patients** with **cirrhosis** depending on the severity of the **liver** disease. It is a common finding, with causative factors which include **anorexia**, nausea, malabsorption, and a hypermetabolic state.

Cited by: 16

Author: Carol A Seymour, Kevin Whelan

Publish Year: 1999

## The nutritional management of hepatic encephalopathy in ...

<https://onlinelibrary.wiley.com/doi/full/10.1002/hep.26370>

Hendrik Vilstrup, Piero Amodio, Jasmohan Bajaj, Juan Cordoba, Peter Ferenci, Kevin D. Mullen, Karin Weissenborn and Philip Wong, **Hepatic encephalopathy in chronic liver disease: 2014 Practice Guideline** by the American Association for the Study Of **Liver** Diseases and the European Association for the Study of the **Liver**, *Hepatology*, 60, 2, (715-735), (2014).

Cited by: 195

Author: Piero Amodio, Chantal Bemeur, Roger Bu...

Publish Year: 2013

## (PDF) Nutrition in Hepatic Encephalopathy - ResearchGate

[https://www.researchgate.net/publication/44803232\\_Nutrition\\_in...](https://www.researchgate.net/publication/44803232_Nutrition_in...)

**Nutrition in Hepatic Encephalopathy.** Protein **calorie malnutrition** (PCM) is a well-known complication of **chronic liver** disease (CLD). A major contribution to PCM in CLD is restriction of **dietary** protein intake. After many decades of injudicious reduction in **dietary** protein, **cirrhotic patients** are now prescribed appropriate amounts of protein.

## Chronic hepatic disease and dietary instruction ...

<https://www.sciencedirect.com/science/article/pii/S1386634604002645>

In advanced **cirrhotic patients** with **hepatic encephalopathy**, **dietary** protein should be restricted to the low level of 0.5 g/kg/day as recommended in the ESPEN guidelines. In such a strictly protein

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**Name of Journal:** *World Journal of Hepatology*

**Manuscript NO:** 47485

**Manuscript Type:** REVIEW

**Dietary approach and gut microbiota modulation for chronic hepatic encephalopathy in cirrhosis**

Campion D *et al.* Dietary modulation for chronic hepatic encephalopathy

Daniela Campion, Ilaria Giovo, Paola Ponzo, Giorgio M Saracco, Federico Balzola, Carlo Alessandria

### **Abstract**

Hepatic encephalopathy (HE) is a common and serious neuropsychiatric complication of

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## Gut Microbiota: Its Role in Hepatic Encephalopathy

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4442863>

Dec 16, 2014 · Ammonia, inflammation and gut flora in hepatic encephalopathy. Urease producing bacteria are frequently gram negative Enterobacteriaceae, but may be anaerobes or gram positive bacteria. 37 Since hyperammonemia in cirrhosis has been thought to be derived predominantly from urea breakdown by urease producing bacteria,...

Cited by: 60 Author: Rahul Rai, Vivek A. Saraswat, Radha K. ...

Publish Year: 2015

## Hepatic encephalopathy: An updated approach from ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3524698>

Feb 01, 2011 · One of the most serious complications of chronic or fulminant liver failure is hepatic encephalopathy (HE), associated most commonly with cirrhosis. In the presence of chronic liver disease, HE is a sign of decompensation, while in fulminant liver failure its development represents a worrying sign and usually indicates that transplantation will ...

Cited by: 21 Author: Giannakis T. Toris, Christos N. Bikis, Ger...

Publish Year: 2011

## Gut Microbiota: Its Role in Hepatic Encephalopathy ...

<https://www.sciencedirect.com/science/article/pii/S0973688314004319>

Modulation of gut microbiota improves hepatic encephalopathy. In conclusion, ammonia has an important role in pathogenesis of HE and systemic inflammation modulates its effect. Degradation of circulating glutamine contributes to the intestinal production of ammonia, in addition to its production by gut bacteria.

Cited by: 60 Author: Rahul Rai, Vivek A. Saraswat, Radha K. ...

Publish Year: 2015

## Synbiotic modulation of gut flora: Effect on minimal ...

<https://aasldpubs.onlinelibrary.wiley.com/doi/full/10.1002/hep.20194>

Apr 26, 2004 · Synbiotic modulation of gut flora: Effect on minimal hepatic encephalopathy in patients with cirrhosis. Abstract Minimal hepatic encephalopathy (MHE) is an important disorder that may seriously impair daily functioning and quality of life in patients with cirrhosis. Treatment with lactulose is of benefit.

Cited by: 640 Author: Qing Liu, Zhong Ping Duan, Da Kang Ha, ...

Publish Year: 2004

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## Hepatic encephalopathy

Medical Condition



A loss of brain function due to failure of removal of toxins from the blood due to liver damage.

📊 Rare (Fewer than 200,000 cases per year in US)

🧪 Diagnosis requires lab test or imaging

👨‍⚕️ Treatment from medical professional advised

🕒 Can last several days or weeks

Caused by liver failure or infections  
Symptoms include confusion, unconsciousness and changes in personality. Treatment includes medication and liver transplant in severe cases.

### Symptoms

Symptoms can occur gradually or suddenly depending on the stage the disease has reached

- Musty or sweet breath odour
- Altered loss of consciousness
- Forgetfulness
- Problems in movement with abnormal

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## Gut Microbiota: Its Role in Hepatic Encephalopathy

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4442863>

Dec 16, 2014 - **Modulation of gut microbiota improves hepatic encephalopathy.** Now that gut microbiota are clearly implicated in the development of HE, their modulation by various agents provides an opportunity to treat covert and overt HE. Successful modulation of gut microbiota leading to improvement in HE strengthens the belief that derangement in microbiota ...

Cited by: 60 Author: Rahul Rai, Vivek A. Saraswat, Radha K. ...

Publish Year: 2015

## Hepatic encephalopathy: An updated approach from ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3524698>

Feb 01, 2011 - **Minimal hepatic encephalopathy.** The prevalence of MHE is high in patients with liver cirrhosis and varies between 30% and 84%, with higher prevalence in patients presenting poor liver function [ 24 ]. The diagnostic criteria for MHE have not been standardized, but are based on careful patient history and physical examination,...

Cited by: 21 Author: Giannakis T. Toris, Christos N. Bikis, Ger...

Publish Year: 2011

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Apr 26, 2004 - **Synbiotic modulation of gut flora: Effect on minimal hepatic encephalopathy in patients with cirrhosis** Qing Liu Artificial Liver Treatment and Training Center, Beijing Youan Hospital and Capital University of Medical Sciences, Beijing, China

Cited by: 640 Author: Qing Liu, Zhong Ping Duan, Da Kang Ha,...

Publish Year: 2004

## Gut Flora and Hepatic Encephalopathy in Patients with ...

[https://www.researchgate.net/publication/42541785\\_Gut\\_Flora\\_and\\_Hepatic\\_Encephalopathy...](https://www.researchgate.net/publication/42541785_Gut_Flora_and_Hepatic_Encephalopathy...)

Request PDF on ResearchGate | Gut Flora and Hepatic Encephalopathy in Patients with Cirrhosis | Hepatic encephalopathy that is a complication of cirrhosis is not a uniform clinical entity; rather

## Hepatic encephalopathy

Medical Condition



A loss of brain function due to failure of removal of toxins from the blood due to liver damage.

 Rare (Fewer than 200,000 cases per year in US) Diagnosis requires lab test or imaging Treatment from medical professional advised Can last several days or weeks

Caused by liver failure or infections Symptoms include confusion, unconsciousness and changes in personality. Treatment includes medication and liver transplant in severe cases.

### Symptoms

Symptoms can occur gradually or suddenly depending on the stage the disease has reached

- Musty or sweet breath odour
- Altered loss of consciousness
- Forgetfulness
- Problems in movement with abnormal tendon reflexes
- Changes in moods
- Personality changes
- Forgetfulness
- Jaundice
- Confusion

### Treatments

Different treatments are needed depending on the underlying cause. Supportive care and medication are given.

### Medication