The influence of Mediterranean, carbohydrate and high protein diets on gut microbiota composition in the treatment of obesity and associated inflammatory state

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The role of the gut microbiota in understanding the onset and development of obesity is gaining importance. Dietary strategies are the main tool employed to counteract obesity, and nowadays they are focused on a wide range of different aspects of diet and not only on calorie restriction. Additionally, diet is known to be a major factor influencing modification of the gut microbiota. Therefore the influence of both macronutrient and micronutrient content of any dietary strategy to treat obesity on gut bacterial composition should now be taken into consideration, in addition to energy restriction. This review aims to collect the available data regarding the influence of different dietary components on gut microbiota in relation to obesity and inflammatory states in humans. Although more work is needed, specific dietary factors (carbohydrate, protein and Mediterranean foods) have been shown to have an influence on the gut microbiota outcomes.

**Dietary strategies** 

Gut microbiota

Inflammation

Nutrition

Obesity

animal

carbohydrate diet

diet

diet therapy
drug effect
gastrointestinal tract
human
inflammation
Mediterranean diet
methodology
microbiology
microflora
mouse
obesity
physiology
protein intake
review
Animals
Diet
Diet, Mediterranean
Dietary Carbohydrates
Dietary Proteins
Gastrointestinal Tract
Humans
Inflammation
Mice
Microbiota
Obesity