Current State of the Art and Practical Aspects of Enteral Nutrition (Special issue)

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Description

In malnourished patients and those at risk of malnutrition, enteral nutrition is used to compensate for their nutritional deficiencies. The composition of these commercial nutrients is balanced and chemically defined. Commercial products are modified in their energy, protein, and other macro- and micronutrient content to provide organ-, disease-, and age-specific nutrition in almost all patients with a functional gastrointestinal tract. Since their first use in astronauts' diets in the 1960s for space missions, they have undergone successful clinical development for the treatment and prevention of malnutrition according to medical and patient-specific needs. They are used in the form of sip feedings or tube feedings with suitable products.
The present Special Issue of *Nutrients* aims to elaborate on the trends, state-of-the-art composition and use of enteral nutrition, including substrates with specific pharmacological actions (pharmaconutrients) or fibers with impacts on the microbiome. The good practice and handling of these products, as well as a correct combined medication regimen, are also addressed in this issue to update health care professionals on the topic to optimally assist in the treatment of patients in hospital and home settings.

Open Access Article 19 pages, 2255 KiB

Is Autologous Fecal Microbiota Transfer after Exclusive Enteral Nutrition in Pediatric Crohn's Disease Patients Rational and Feasible? Data from a Feasibility Test

by **Hannes Hoelz**, **Jeannine Heetmeyer**, **Anastasia Tsakmaklis**, **Andreas Hiergeist**, **Kolja Siebert**, **Federica De Zen**, **Deborah Häcker**, **Amira Metwaly**, **Klaus Neuhaus**, **André Gessner**, **Maria J. G. T. Vehreschild** **Dirk Haller** and **Tobias Schwerd**

Nutrients **2023**, *15*(7), 1742; **https://doi.org/10.3390/nu15071742** - 2 Apr 2023

Abstract Background: Exclusive enteral nutrition (EEN) is a highly effective therapy for remission induction in pediatric Crohn's disease (CD), but relapse rates after return to a regular diet are high. Autologous fecal microbiota transfer (FMT) using stool collected during EEN-induced clinical remission might represent **[...] Read more.**
(This article belongs to the Special Issue **Current State of the Art and Practical Aspects of Enteral Nutrition**)

Open Access Article 10 pages, 1619 KiB

Should Carbohydrate Intake Be More Liberal during Oral and Enteral Nutrition in Type Diabetic Patients?

by **Ondrej Sobotka**, **Marie Ticha**, **Marketa Kubickova**, **Petr Adamek**, **Lenka Polakova**, **Vojtech Mezera** and **Lubos Sobotka**

Nutrients **2023**, *15*(2), 439; **https://doi.org/10.3390/nu15020439** - 14 Jan 2023

Abstract Carbohydrate (CHO) intake in oral and enteral nutrition is regularly reduced in nutritional support of older patients due to the high prevalence of diabetes (usually type 2—T2DM) in this age group. However, CHO shortage can lead to the lack of building blocks necessary **[...] Read more.**
(This article belongs to the Special Issue **Current State of the Art and Practical Aspects of Enteral Nutrition**)

Open Access Review

21 pages, 1012 KiB

The Role of Dietary Fibre in Enteral Nutrition in Sepsis Prevention and Therapy: A Narrative Review

by **Valentina V. Huwiler**, **Melanie Scalise**, **Katja A. Schönenberger**, **Stefan Mühlebach**, **Zeno Stanga** and **Maria L. Balmer**

Nutrients **2023**, *15*(11), 2489; **https://doi.org/10.3390/nu15112489** - 26 May 2023

Abstract Objective: This narrative review summarises the current evidence on the role of dietary fibre in enteral nutrition in the prevention and therapy of sepsis, with a focus on critically ill patients. The aim is to discuss the implications for clinical practice and identify **[...] Read more.**

(This article belongs to the Special Issue **Current State of the Art and Practical Aspects of Enteral Nutrition**)

Open Access Brief Report

6 pages, 237 KiB

Early Tube Feeding after Percutaneous Endoscopic Gastrostomy (PEG): An Observational Study

by **Rachel Strahm**, **Manuel Weber**, **Reiner Wiest** and **Kai-Uwe Schmitt**

Nutrients **2023**, *15*(5), 1157; **https://doi.org/10.3390/nu15051157** - 25 Feb 2023

Abstract This study investigated whether enteral nutrition by early tube feeding led to changes in clinical parameters compared to tube feeding after 24 h. Starting on 1 January 2021, and following the latest update of the ESPEN guidelines on enteral nutrition, patients with percutaneous **[...] Read more.**

(This article belongs to the Special Issue **Current State of the Art and Practical Aspects of Enteral Nutrition**)

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