

Special Issue

Macronutrients and Micronutrients in Parenteral Nutrition

Message from the Guest Editor

It is well known that parenteral nutrition (PN), the intravenous infusion of nutrients in the elementary form, is a lifesaving treatment for newborns, children, and adults that do not receive all the required macro- and micronutrients by the enteral route. The modern era of PN began in the 20th century, with Elman and Dudrick working respectively on protein hydrolysates and lipid emulsion to be infused intravenously. Since then, numerous advancements in PN were developed and are still in progress with the study of different types of lipids and their immunomodulatory influences, amino acid formulations in children and adults, and proper amounts of carbohydrates and micronutrients and their influence on metabolism. Although PN has become a safe and efficient technique, the incidence of complications related to PN, such as intestinal failure-associated liver disease, remains high, and the assessment of proper intakes using markers has to be continuously performed, especially in rapidly growing newborns and children.

Guest Editor

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Message from the Editorial Board

Nutrients is an on-line open access journal that was first published in 2009. *Nutrients* adheres to rigorous peer-review and editorial processes and publishes only high quality manuscripts that address important issues related to the impacts of nutrients on human health. The Impact Factor of *Nutrients* has risen rapidly since its establishment and it is now ranked in the first quartile of journals publishing in the field of nutrition and dietetics research.

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