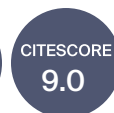




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Macronutrients and Micronutrients in Parenteral Nutrition

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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.



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