



## Pharmaceutical Preparations, Challenges in Formulations and Compatibility Studies

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### Message from the Guest Editors

Parenteral nutrition (PN) is a valuable clinical approach for patients at risk of malnutrition who are unable to receive nutrients through the gastrointestinal tract. PN is included in the ISMP's list of high-alert medication. Standard procedures and a close monitoring are needed to achieve optimal patient outcomes and ensure patient safety.

As for PN preparations, their stability and sterility are still major concerns and potentially pose a high risk to patients. There is a wide range of variables that can compromise stability, considering that PN preparations are lipid emulsions that include components such as calcium or phosphate that may lead to precipitation and/or emulsion break-up. Additionally, the Y-site administration of drugs with TPN can affect the admixture's stability, among other potential critical factors.

Further studies are needed to generate more evidence regarding the abovementioned challenges and to increase the knowledge in this area. In this Special Issue, we aim to draw together research from experts in the field that focuses on the concerns affecting





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## Editor-in-Chief

### Prof. Dr. Amélia Pilar Rauter

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