Special Issue

Pharmacokinetics and Clinical Practice of Monoclonal Antibodies

Message from the Guest Editors

The use of monoclonal antibodies (mAb) in the clinical practice has grown in the last decade in different fields, such as oncology, autoimmune diseases, osteoporosis, immunosuppression, coagulopathies, among other conditions. The mAb match all the requirements needed to include them in model-informed precision dosing programs, and the high cost of the treatments make the dose individualization even more interesting to consider in order to increase the efficiency. However, the pharmacokinetic of many of the mAb differs from the small molecules in different aspects, including target-mediated drug disposition, which makes the PK model development more challenging. The objective of this Special Issue is to review the state-of-the-art of two aspects. First, the new PKPD modelling strategies in mAb, and how these models could help to design phase II and III in drug development. Second, the different approaches for mAb in the model-informed precision dosing adopted in the clinical practice.

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