

Special Issue

Innovative Tools for Therapeutic Drug Monitoring

Message from the Guest Editors

The variability of drug response complicates the prediction of the risk–benefit balance, limiting the real benefit of treatment. The pharmacometrics approach provides an attractive solution to characterize the variability of response to drugs and identify the clinical and biological parameters for therapeutic drug monitoring. A priori adaptation can be proposed when taking variability into consideration. A more precise a posteriori optimization can be made when integrating drug concentrations and metabolites in biological matrices, combined, if necessary, with pharmacogenetic data. The integration of clinical data (patient characteristics, clinical response, undesirable effects, toxic effects) finally makes it possible to propose a more rational individualization. This Special Issue provides a panorama of the state of the art of therapeutic drug monitoring and its tools. Examples of modern approaches to adapting dosages for different pharmacological classes in different medical specialties and situations such as anesthesia, infection, psychiatry, neurology, cardiology, oncology, intensive care medicine, chronic inflammatory diseases, etc. are also welcome.

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