

ABSTRACT- 04.10.2024 11:45 - 12:45 Uhr: Practical Symposium - Pragmatic trial and evolutions of clinical trial methodology in oncology

The development of clinical research methods in oncology has undergone significant changes in recent decades, adapting to scientific and technological advances to improve the efficacy and safety of cancer treatment. Initially, oncology clinical trials focused on chemotherapy and radiotherapy using traditional phase I to IV study designs. The early phases evaluate safety and dosage, while the later phases determine efficacy and compare new treatments with existing standards.

With advances in molecular biology and genetics, clinical trials are beginning to include targeted therapy, immunotherapy, and personalized treatment. More adaptive models, such as basket and umbrella trials, have been introduced, allowing the study of multiple treatments for different types of cancer or different mutations in a single trial, increasing the efficiency and speed of obtaining results.

The introduction of biomarkers is crucial for identifying subgroups of patients who may benefit from specific treatments, thus increasing the precision of the studies. Additionally, the use of digitization and big data can better monitor and analyze data, which is beneficial for the early detection of side effects and the continuous evaluation of treatment effects.

In conclusion, advancements in oncology clinical trial methods, driven by technological progress and a deeper understanding of cancer biology, represent a shift towards a more personalized and effective approach.