

Dai bersagli molecolari alla medicina di precisione. La cura del paziente oncologico nel XXI secolo

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From Molecular Targets to Precision Medicine. Treating Cancer Patients in the XXI Century

Abstract: In recent years, clinical trials, particularly in the field of oncology, have undergone a rapid transformation, in the wake of so-called *precision oncology*, the advent of new digital technologies, namely, the *eHealth technologies*, and the *Real-World Evidence*. Since the 2000s, molecular-targeted therapies have been developing, aimed at moving beyond the ‘one size fits all’ approach in the direction of personalised treatment lines designed on the molecular profile of the individual patient. Relevant in this respect are also digital devices, which enable extending the information obtained through diagnostic tests with data on the patient’s lifestyle (*Real-World Data*): diet, physical activity, sedentariness, stress, (ab)use of substances, etc. Despite its well-known advantages, precision oncology may potentially raise methodological, as well as clinical and research ethics challenges, which need to be properly considered and addressed.

Keywords: Precision oncology, Research ethics, Methodology of clinical research, Bioethics, Shared decision-making.

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