Developing an Individualized Therapy Approach of Theranostics for Chemotherapy Patients

Diana Olivera

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Description

A fundamental change in medicine has occurred with the advent of therapeutics, a combination of "therapy" and "diagnostics," which combines diagnostic methods with therapeutic interventions. By customizing the course of treatment for each patient, this method seeks to maximize benefits and reduce side effects. Theranostics provides a comprehensive approach to illness management across multiple medical disciplines by integrating medications and diagnostics. Theranostics operates on the fundamental principle of individualized medicine, recognizing that patients exhibit unique characteristics influencing disease progression and treatment response. Theranostics begins with accurate diagnosis, utilizing advanced imaging techniques, molecular biomarkers, and genetic profiling to characterize disease pathology at the molecular level. This personalized diagnostic approach enables clinicians to identify specific disease subtypes and predict treatment responses.

Theranostic techniques use targeted medicines based on each patient's unique molecular profile, building upon diagnostic insights. Small molecule medications, monoclonal antibodies, nucleic acid-based therapeutics, and cutting-edge methods like nanomedicine and gene editing technology could be some of these treatments. Theranostics incorporates real-time monitoring of treatment response using biomarkers, imaging modalities, and other non-invasive techniques. By assessing treatment efficacy and disease progression longitudinally, clinicians can adjust therapeutic regimens to optimize outcomes. Theranostics finds applications across a wide spectrum of medical specialties, revolutionizing the management of various diseases. In cancer treatment, theranostic approaches have gained significant traction. Techniques such as Positron Emission Tomography-Computed Tomography (PtrenN tr aegvases.

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precision med individualized	licine. Thro diagnosis,	ough the ut and real-	ilization of target time monitoring,	ted therapy, theranostic	techniques hold significant promise to transform illness managemen in a multitude of medical specialties.