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Role of Encyclopaedic Tumor Analysis in Improving Outcomes of Late Stage Refractory Cancers

Encyclopedic tumour analysis guided treatments with conventional drugs outperform available alternatives in refractory cancers. One of the major challenges in effective cancer treatment and better outcomes has been the issue of drug resistance, along with the ability to determine early on which drugs will work and which will not, and enhances our understanding of the cancer biology. Drug resistant cancers present a serious clinical challenge since there are virtually no treatments available. As a large proportion of all cancer patients eventually progress towards this phase, life extending treatment options for these patients are urgently required. The RESILIENT Protocol was designed to analyse all functional layers of a cancer cell i.e., DNA, RNA, proteins and germline genetics besides chemoresistance/sensitivity of live tumor cells. 143 patients started treatment and 126 patients were evaluable as per study criteria. All patients underwent PET-CT and Brain MRI scans prior to start of treatment to establish extent of disease. Treatment response was determined by follow-up PET-CT and MRI scans. In the majority (90.5%) of patients, further spread of cancer was effectively halted. In 42.9% of patients, treatments also led to a significant decrease in the extent of cancer.

Keywords: genomics, Tumor, refractory cancers, resilient

Biography:

Dr. Vineet Datta brings over 20 years of global healthcare experience across clinical patient care, medical assistance, strategic leadership and healthcare consulting. His current role as the Executive Director at Datar Cancer Genetics is to globally expand the adoption of personal and accurate medicine across the clinical mainstream. He has held various leadership positions across the NHS, International SOS and Apollo Hospitals. He was awarded Diplomas for Membership to the Royal College of Physicians, United Kingdom (MRCP-UK) and the Royal College of Emergency Medicine (MRCM), London. Vineet is an elected Fellow the Royal College of Physicians and Surgeons, Glasgow, and possesses the Advanced Pre-hospital Emergency Care Certification from the Royal College of Surgeons, Edinburgh. He currently also serves as the International Advisor to the Royal College of Physicians and Surgeons of Glasgow, in addition to his professional responsibilities.