Mamotabo R Matshela, J Pharmacogenomics Pharmacoproteomics 2017, 8:3(Suppl)
DOI: 10.4172/2153-0645-C1-015

Mechanistic approaches in Chemotherapy and Radiation induced Cardiotoxicity: Can Cardiac Images assist prophylactically?

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In the recent past, crucial discoveries have been made in the field of cancer medicine and cardio-oncology; where novel chemotherapy and radiotherapy have been brought to the limelight and significant technological improvement has been made, contributing immensely to current cancer therapies. In addition, the introduction of novel chemotherapy agents and strict therapeutic schedules in the advent of neo-adjuvant, and adjuvant concurrent chemo-radiotherapy has improved cancer management drastically. Despite this novelty in the era of cancer medicine including current chemotherapeutic intervention and radiotherapy in cancer patients; the mechanisms of chemotherapeutic and radiotherapy induced cardiotoxicity are still in evolution which then allows an opportunity for an extensive research to uncover prophylactic approaches in patient undergoing cancer therapy.

Biography

Mamotabo Rossy Matshela, completed my PhD thesis at Mayo Clinic, Rochester (USA) in collaboration with the University of Kwa-Zulu Natal and also postdoctoral studies from the Mayo Clinic. She is a cardiologist and associated professor, Medi-Clinic Heart hospital and UKZN. Previously served as a committee member for the South African Heart Association (SAHA); and also a co-chair for the Mayo Clinic Research Fellowship Association committee (educational co-chair).She also a fellow and committee member of the Pulmonary Vascular Research Institute (PVRI, UK).Her special interests are advanced cardiac imaging (echocardiography and MRI) and research. Main research focuses are on myocardial mechanics using speckle tracking strain. Her other research areas are mostly on a diverse variety of cardiac and cardiovascular diseases including heart failure, pericardial disease, peripartum cardiomyopathy and health disparities. She has established the following research registries in her country: Heart failure, cardio-oncology and echocardiographic screening in impoverished schools. She also works on two other registries which are in evolution: atrial fibrillation and pericardial diseases. Last, but not least; she is currently launching my own foundation which will focus on cardiovascular health disparities. While remaining a research collaborator with the Mayo Clinic, Rochester, USA; she is pursuing a post-PHD executive MSc with London school of economics and political science on part time basis.

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