

## **Role of nuclear medicine in breast cancer**

### **Introduction :**

While changing our lifestyle factors such as excessive alcohol consumption, obesity and physically inactive have also contributed to increased the rate of death from breast cancer. Mortality rate which is caused by breast cancer is currently the second leading cause of death for women in developed regions. Since 2008, the support of clinical approaches that decreases the risk and increase early detection and treatment through worldwide, while frequency increases in 20% and rise in mortality by 14%. When incorporating nuclear medicine technology in the diagnostic plan, it can readily achievable by multimodality approach by using tailored management. In instruments the developments has been taking place such as high resolution dedicated breast device and it has coupled with the diagnostic versatility of conventional cameras have reinserted nuclear medicine as a valuable tool in clinical setting in broader range. This shows general nuclear medicine is a critical role in the care of women with breast cancer including detection and stratification, guiding treatment by using sentinel node imaging (which is used to determine whether cancer has spread beyond a primary tumor into your lymphatic system), monitoring cardiotoxicity from therapeutic regimens and evaluating local and global progression. In addition with that, it describes the role of positron emission tomography or computed tomography is discussed.