

Prevalence of Anemia in Older Prostate and Breast Cancer Patients Attending National Cancer Institute (NCI)

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Anemia is common in cancer patients and it is one of the leading indicators of cancer. The prevalence of Anemia is significantly increasing in elderly cancer patients. Anemia may be caused from bleeding, nutritional deficiencies, bone marrow damage, tumor infiltration of bone marrow, and the malignant process itself.

The purpose of this study is determine Hemoglobin (Hb) levels in older Sudanese prostate cancer patients and female breast cancer patients attending National Cancer Institute (NCI), Gezira State-Central of Sudan.

A population for the study was recruited 156 males and 193 females diagnosis of confirmed prostate and breast cancers as new cases between 1/Jan/2015 -1/Nov/2016. Aged range was over 45 years old. A combined analyses of 349 participants with anaemia was depended on [haemoglobin, 13 g/dl (men) or 12 (women)]. Across cancer patients and anaemia subgroups using the χ^2 -test.

In the total, 73.7% of prostate cancer patients were anemic, however (59.6%) of breast cancer patients were anemic. Anemia was associated with advanced age (≥ 66 years) in prostate cancer (38.7%); as well it increased in breast cancer (25.9%) with younger age group (45-55 years). Anemia had a significant effect with age, martial status, physical activity, education level, career status, habits, Body Mass Index and advance stage of diseases.

Individually, anaemia confers risks in prostate and breast cancer patients. The causes of anemia should be pursued and reversed. The hemoglobin levels should be maintained with normal level. Screening for anaemia would identify vulnerable prostate and breast cancer patients whose outcomes can potentially be improved.

Biography:

Fatima Abu Baker Hamad is lecturer in Biochemistry Department, Gezira University. She is a PhD student in Molecular Biology, Institute of Endemic Diseases and University of Khartoum. She obtained MS in Biochemistry & Nutrition from Gezira University and BS in Biochemistry & Nutrition from Khartoum University. She has experience in teach, research and application of Biochemistry, nutrition, environment and cancer risk assessment. Fatima is particularly member in Sudanese cancer and environmental Societies-Wad Madani Branch, Sudan. She published many scientific papers and she presented different scientific papers on many conferences all over the world.