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## Occupational and prostate cancer risk

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The rapidly increasing incidence of prostate cancer in Sudan calls for attention to the etiologic and prevention of this type of cancer in old men. Potential risk factors that are mentioned in Sudanese prostate cancer patients are age, education level, unhealthy habits, the body mass index and occupation. A population based case-control study recruited 237 men with a diagnosis of confirmed prostate cancer and 237 controls randomly selected from the community. Thirteen occupations and 8 industries were selected for analyses to estimate the odds ratio between each occupational circumstance and prostate cancer with control for potential confounders. History of farmer was associated with a highly significant increased the risk for prostate cancer OR (3.711; 95% CI, 2.722-5.058), as was exposure to pesticides was associated with a highly significant increased OR (3.512; 95% CI, 2.611-4.725,  $P<0.000$ ). Agriculture industry were strongly significantly elevated the risk for prostate cancer, as well as miscellaneous services wasn't associated but it had significant affected OR (3.439 and 0.506; respectively,  $P<0.000$ ). Farmer and Horticulturalists, mixable workers and Businessmen were relatively high odds ratios; also these were high statistically significant ( $P<0.000$ ). These results suggest positive associated was appeared between some occupations, industries and increased the risk for prostate cancer in Sudan. Furthermore it needs more attention to preventing and curing the agriculture community.

### Biography

Fatima Abu Baker Hamad is a PhD student in Molecular Biology, Institute of Endemic Diseases, at the University of Khartoum (2012-2016), an MS in Biochemistry & Nutrition from Gezira University, and a BS in Biochemistry & Nutrition from Khartoum University. She is particularly a member in Sudanese Cancer Research Group, Sudanese Environment conservation Society-Wad Madani Branch and member in RAMA Society for cancer patient's aid- National Cancer Institute (NCI), Gezira University. She published and presented different scientific papers in more than 10 conferences all over the world. She is focused on agriculture communities, chemical contamination, occupations, environments and cancer risk factors.

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