Cancer magnitude in west Libya and study the effect of dietary habits in cancer incidence and cancer treatment using nanotechnology

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***Abstract*—This study provides an overview of magnitude of cancer incidence in West Libya form 2009 to 2013, to identify the role of bad meal in developing cancer, and to suggest further nano-technology research for treating cancer. Among 1851 cancer cases, 1472 cases (79.5%) occur in people aged above 40 years old. The most affected age by cancers was in males aged 61-70 years and in females aged 41-50 years. Lung cancer is the principal cancer in men accounting for 21% of cases, while breast cancer is the leading malignancy in women accounting for 35% of cases. Among 100 interviewed males and females with colon, stomach and liver cancers, 50% of them were eating a lot of red meat, canned and fast foods, whereas 20% of all cases were eating a little of fruits and vegetables. 22% of all cases were more likely to have a positive family history of cancer and 8% of all cases had chronic diseases such as diabetes, hypertension, urinary tract infection and gastritis. Good efforts have been made to improve the treatment of cancer by using nanomedicines in order to enhance the performance of chemotherapy and reduce systemic side effects.**

***Index Terms*—West Libya, cancer incidence, nanomedicines.**

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