

Geographical Analysis of Patients with Colorectal Cancer and its Relation with Environmental Elements in Guilan Province

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Abstract Cancer is one of the major causes of mortality and disability in human societies. Cancer is the third cause of death and colorectal cancer is the fourth common cancer in Iran. The environmental and climatic conditions in each region can affect the occurrence and spread of certain diseases such as colorectal cancer. Colorectal cancer is among one of the diseases which can be influenced by environmental factors. Cancer rate differs in different geographical regions. The purpose of this thesis is to analyze the geographical distribution of patients suffering colorectal cancer and its relation with environmental factors in Guilan province, as well as to determine its occurrence in different regions of the province and its adaptation to different geographical conditions through maps and other similar means. The research method in the present thesis is descriptive-analytic. For analyzing the statistical population of 1512 patients 2010 to 2014, library studies and documents, with excel and SPSS softwares, Arc Gis and Pearson correlation analysis were used to evaluate the hypotheses. The results show that the cities of Bandar Anzali, Lahijan and Fouman are ranked first to third in terms of frequency. cancer most likely afflicts men (54.9%) and women (45.1%) with the age distribution of 69-60 years. There is a significant relationship between the increase in the frequency of the disease and the decrease in the duration of the day and vitamin D production in cold seasons. The lack of proper distribution of fertilizers per unit area of agricultural land in the province is also significant. The city of Masal with the fourteenth place in the area of agricultural land has the largest amount of chemical fertilizers and the lack of balance in the distribution and use of fertilizers can surely affect the quality and growth of the crop. Other influential factors in the frequency of the disease include: affordability in buying proper food baskets, the change of life-style and the

popularity of the Western and processed food, the consumption of cheap and fast food with saturatod fat and preservatives, and the decrease in the consumption of fruits and vegetables. Key Word: Colorectal Cancer, Geographic Analysis, Environmental Factors, and Guilan Province

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