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Correlation between manganese superoxide dismutase and susceptibility to colorectal cancer

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Abstract:Oxidative stress is considerable in several kind of cancer, such as colorectal cancer (CRC) .free radical result from many CRC risk factors such as smoking, that is able to cause oxidative DNA damage. manganese superoxide dismutase (MnSOD) is an intracellular antioxidant enzyme that have an important role in limiting the harmful effects of oxidative stress .The present study aims to determine the concentration of manganese superoxide dismutase (MnSOD2) and investigation of SOD2 gene polymorphism in CRC cancer patients and the possibility of using this polymorphism as biomarker for CRC cancer. patients with clinically diagnosed CRC (n=70) and healthy control individuals (n=40) were investigated for determine SOD2 concentration and for single nucleotide polymorphism (SNP;rs4880) by polymerase chain reaction –restriction fragment length polymorphism .there were significant differences between patients and control in SOD2 concentration in sera of both patients and control ,since the P value was(0.007) .However, there was a significant difference between the patients and control groups(p=0.00398),patients were more likely to have C/C polymorphism than control group.

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