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Hypericum triquetrifolium Turra against cyclophosphamide-induced hemorrhagic cystitis in rats

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A cyclophosphamide (CYP) usage is limited by side effects of it, are commonly used as antineoplastic drug. Hemorrhagic cystitis is one of the most important side effects of CYP chemotherapy. Antioxidants such as *Hypericum triquetrifolium* Turra (HT) show an important antioxidant and anti-carcinogenic properties with its rich contents. This study investigated the possible cytoprotection effect of HT (25, 50, 100 mg/kg, i.p., for 6 days) in CYP (150 mg/kg, single dose, i.p.) treated rats, and attempted to obtain a suitable new agents. Creatinin (CK), malondialdehyde (MDA), total oxidant capacity (TOC), total antioxidant capacity (TAC) and oxidative stress index (OSI) levels were measured in blood serum. Furthermore, the bladder tissue samples were investigated histopathological. In the only CYP group CK, MDA, TOC and OSI levels found increased while TAC level decreased. According our results high dose CYP caused the edema, necrosis, bleeding and tissue erosions, hemorrhage and separation of the muscle fibers supported the our biochemical results. After pretreatment with HT doses observed an important decrease in the CYP toxicity, decreased the cell damage and oxidative stress parameters while increased TAC. Based on the present experimental study's findings, we may say that HT pretreatment has the potential to be a therapeutic option for the management of CYP-induced HC.

Biography

Songul CETIK is an Assistant Professor at Vocational Higher of Health Services, Mardin Artuklu University in Turkey. She has completed her graduation from Eskisehir Osmangazi University, Faculty of Arts and Sciences, Department of Biology, 2009. She has done her Post-graduation from Eskisehir Osmangazi University, Faculty of Science, 2014.

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