

ELIMINATION OF ORGANOCHLORINE PESTICIDES FROM THE BODY BY USING HERBAL MEDICINES

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Backgrounds and Aims: The aim of the present study was to evaluate the efficacy of herbal medicinal products obtained from the local herbs and fruits for neutralization and elimination of OCPs from the body.

Materials and methods: A total of twenty two patients were studied. All patients were allocated to 2 groups. Group I consisted of 11 nursing mothers (OCPs were detected in breast milk), Group II comprised 11 men with male infertility (OCPs were detected in testicular fluid). The authors employed gas chromatography for detection of OCPs (DDT, DDE, DDD, GCCG) in breast milk and testicular fluid before and after the treatment.

Results: For neutralization and elimination of OCPs from the body the authors suggested administration of herbal medical products, obtained from the herbs and fruits grown in Kyrgyzstan which are rich in vitamins, biologically active substances, pectins and microelements, having sorbent, choleric and diuretic actions.

Herbal medicines were administered as a tea and food additives during 10-12 days in group I and during a month in Group II. Before the treatment, concentration of GCCG in breast milk was $0,006238 \pm 0,0042$ mg/l, after the treatment they were found in 10 patients ($0,0031 \pm 0,0006$), DDE $0,0278 \pm 0,0004$ and detected in 8 ($0,0135 \pm 0,006$) $P < 0,05$.

Concentration of DDE in testicular fluid was $0,00257 \pm 0,0006$, GCCG $0,026744 \pm 0,009934$ mg/l $P < 0,05$ before the treatment. After the treatment with the suggested medicines DDE were not detected, GCCG was found in 1 patient.

Conclusions: Thus, the herbal medicines obtained from local herbs and fruits grown in the Kyrgyz Republic were proved to be efficient in neutralization and elimination of OCPs from the body. But this field is an open way to further research.