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Dynamic Thiol/Disulphide Homeostasis in Patients with Uterine Myoma

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Abstract

Background: The aim of this study is to measure and compare the dynamic thiol and disulphide homeostasis between patients with Uterine Myoma (UM) and healthy subjects.

Material and method: A total of 54 patients with UM who were diagnosed by transvaginal ultrasonography and 37 age- and body mass index-matched healthy individuals were included in this study. Thiol/disulphide homeostasis was measured by a novel automatic spectrophotometric method.

Results: The mean serum native thiol, disulphide, and thiol levels were statistically lower in UM group than those in the control group [(284.66 ± 59.41 µmol/L vs. 320.98 ± 56.17 µmol/L, $P < 0.0001$), (17.27 ± 5.59 µmol/L vs. 22.38 ± 6.93 µmol/L, $P < 0.0001$) and (319.21 ± 61.69 vs. 365.76 ± 61.46 µmol/L, $P < 0.0001$), respectively]. There were no statistically significant differences in ratios of the disulphide/native thiol, native thiol/total thiol, and disulphide/total thiol among patients with UM versus healthy control group ($P = 0.096$, 0.092 , 0.092 , respectively).

Conclusion: It was found that the native thiol, total thiol, and disulphide levels in patients with UM decreased while the ratio of native thiol/disulphide remained unchanged. It is

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