

PROINFLAMMATORY CYTOKINES IN GALLSTONE INDUCED OSTEOPOROSIS

Falah Hassan Shari¹, Mohammed Abbas Taher^{2†} and Salah Kadim Ahmed³

ABSTRACT

Objective:

The aim of this study is to evaluate the Proinflammatory cytokines effects on cholelithiatic patients and evaluate levels of bone formation and bone resorption markers. **Subjects and methods:** one hundred patients with cholelithiasis to GOLD standards criteria were participated in this study. One hundred patients with cholelithiasis, one hundred apparently healthy subjects were selected to be a normal group for comparison. In addition, assessing the plasma levels of tumor necrosis factor alpha [TNF- α], interleukine 1[IL-1], interleukine6 [IL-6], C terminal Telopeptides of type I Collagen [CTX1] and carboxyterminal propeptide of type I procollagen [PICP] by EILISA Kits. **Results:** The results show that the levels of tumor necrosis factor alpha [TNF- α], interleukin 1[IL-1] , interleukine 6[IL-6], C terminal Telopeptides of type I Collagen[CTX1]and carboxyterminal propeptide of type I procollagen[PICP] elevated in serum of patients with cholelithiasis significantly as compared with control healthy groups. **Conclusion:** The inflammatory activity of tumor necrosis factor alpha [TNF- α], interleukine 1[IL-1] and interleukine6 [IL-6] important in develops osteoporosis in patients with cholelithiasis by its effect on bone formation and resorption markers.

KEYWORDS:

Cholelithiasis, Osteoporosis, Tumor Necrosis Factor Alpha [TNF-A], Interleukine 1[IL-1], Interleukine6 [IL-6].