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### **The Assessment of Calprotectin Protein as a Marker in the Ulcerative Colitis and Colorectal Cancer Patients**

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#### **ABSTRACT**

*The aim of study is Assessment of plasma CP as a marker compared to fecal CP in patients with UC and CRC. Sixty patients (45) were UC and (15) were CRC, during the period from 1<sup>st</sup> of December 2013 till 30<sup>th</sup> of May 2014. The practical side was performed at the laboratory of Biochemistry Department, College of Medicine, University of Babylon. In this study all cases were proved by histopathological confirmation. The plasma obtained from the blood of patients were used to measure the concentrations of plasma and fecal calprotectin (CP), by using Enzyme Linked Immune Sorbent Assay (ELISA), the serum separated from the blood control group were tested by CRP testing to exclude the inflammatory conditions extracted stool was used to measure the concentration of fecal CP for patients, and gel electrophoresis done on extracted stool of five samples from UC and CRC with their controls*

**Keywords:** Ulcerative Colitis, Colorectal Cancer, plasma Calprotectin, fecal Calprotectin.

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