

**EVALUATION OF LEVELS OF ADIPONECTIN AND RESISTIN IN GINGIVAL  
CREVICULAR FLUID IN PERIODONTAL HEALTH, DISEASE AND AFTER  
TREATMENT-A CLINICO-BIOCHEMICAL STUDY**

**INTRODUCTION:**

Chronic Periodontitis is an inflammatory disease of the supporting tissues of the teeth. Resistin is a proinflammatory cytokine which is seen elevated in inflammatory conditions. Adiponectin mediates anti-inflammatory effects and functions in cell proliferation, differentiation, and regeneration. GCF collection is considered the most nontraumatic investigational method about periodontal tissue conditions.

**AIMS & OBJECTIVES:**

This study was done to evaluate the levels of GCF resistin and adiponectin in generalized chronic periodontitis patients before and after non surgical periodontal therapy.

**MATERIALS AND METHODS:**

GCF samples were collected from a total of 50 subjects divided into three groups, group I- Healthy, group II- Chronic Periodontitis, group III- After treatment. The levels of resistin and adiponectin were evaluated using Immunotag™ Human RETN ELISA kit (ITEH0269) and Immunotag™ Human ADP (Adiponectin) ELISA kit (ITEH2593).

**RESULTS:**

There was an increase in the level of resistin and decrease in the level of adiponectin in the GCF samples collected baseline. After 21 days of post treatment there was a decrease in the level of resistin and increase in the level of adiponectin.

**CONCLUSION:**

Resistin and adiponectin can be used as a potential marker in generalized chronic periodontitis patients.

**KEYWORDS:**

Chronic Periodontitis, Resistin, Adiponectin, Inflammatory cytokines, Gingival Crevicular Fluid