

### **Hemostatic Powder Use For Thyroid Surgery**

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#### **Purpose:**

In thyroid surgery leaving a drain lodge is a routine technique.

There was no alternative technique for using drainage until today.

In this study without usage drain, hemostatic powder is used and observed prospectively.

Method: In this study we investigated 10 patient who had a surgical operation due to thyroid pathology finding in 2005 August – October.

One patient was male the others nine were female. Average age was 46 (22-46). Two of them had Base Dow Graves, Two of them papillary CA, one of them solitary thyroid nodule. Five of them had multinodular goiter (MNG). Total thyroidectomy was applied to the patient with Solitary nodule and MNG .1 gm AristaAH (Microporous Polysaccharide Powder) applied to all the patient's thyroid lodge for hemostasis (Pictures 1, 2). Without applying drainage tubes skin and lower skin was closed (Picture 3). Cases were investigated while patients were hospitalized for seroma and wound infection.

#### **Findings:**

Hospitalization period was an average of 1.1(1-3) days.

After the surgery period one patient developed a hematoma but the other eight patients did not have any complications. All the patients were examined by neck ultrasound scanning in the postoperative period and the thyroid lodge was investigated. It was seen that two patients had 3cc, four patients had 1cc, one patient had 20cc liquid and two patients had no liquid. One patient developed a neck hematoma and during ultrasonography scan a 40cc hematoma developed but with conservative treatment the patient was sent home in 3 days. None of the patients developed wound infection.

#### **Results:**

Hemostatic powders have been used largely in abdominal parts of the body.

But no study had been done regarding thyroid surgery and use of hemostatic agents. This prospective small study showed that hemostatic powders can be an alternative for drainage tube use.

There should be more controlled randomize studies done in order to understand of comparison between drainage use or hemostatic powder use.



Picture 1



Picture 2



Picture 3