



## Use of Ankaferd Blood Stopper After Tooth Extraction on Hemophiliac Patients.\*



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### Introduction

Ankaferd Blood Stopper is a new, standard, sterile, stable and medical herbal extract product. Ankaferd Blood Stopper as a medicinal product has been approved in the management of external haemorrhage, dental surgery bleedings, efficacy reports indicating its sterility, nontoxicity and it has been produced in Turkey. Ankaferd Blood Stopper has ampule, spray and tampon forms. Ankaferd Blood Stopper comprises a standardized mixture of the five plants: Thymus vulgaris, glycyrrhiza glabra, vitis vinifera, alpinia officinarum and urtica dioica. The basic mechanism of action for Ankaferd Blood Stopper is the formation of an encapsulated protein network that provides focal points for vital erythrocyte aggregation. Ankaferd Blood Stopper induced protein network formation with blood cells particularly erythrocytes covers the primary and secondary haemostatic system without disturbing individual coagulation factors.

Hemophilia is an inherited bleeding disorder, affecting primarily males, caused by a deficiency or absence of one of the blood's proteins (clotting factors) necessary for blood to clot properly. Because of the clotting factor deficiency, it takes a long time to form a clot and bleeding to stop. In this study we want to investigate Ankaferd Blood Stopper how to effect on hemophiliac patient after tooth extractions.

### Materials and Methods

This study includes 30 hemophiliac patients referred to Istanbul University Faculty of Dentistry Department of Oral Surgery and Oral Medicine. The patients divided in two groups each containing 15 hemophiliac patient.

Articaine HCL containing epinephrine HCL (Ultracaine D-S forte ampule, Aventis) was used to obtain local anesthesia, whereas isocaine was preferred for patients with type II diabetes and hypertension.

We performed replacement therapy pre and post operatively in the first group. In this group we extracted 25 teeth. For the second group, replacement therapy before extraction and Ankaferd Blood Stopper post extraction was applied without post-op replacement therapy and we extracted 23 teeth. However some of the patients who had molar extraction and severe hemophiliac we used post-operative replacement therapy. All patients were seen after day and a week.

Bleeding and wound healing evaluated by dentist. Also patients compared new extraction and past extraction.



The day after extraction of 31, 32 and 33.



Same day-extraction of 41, 42 and 43.



Two days after



Before extraction



After Ankaferd application



The day after extraction



Before extraction of 46



After extraction of 46



The day after extraction of 46

### Results

We applied ampule form of Ankaferd Blood Stopper locally in our study. After extraction each patient was evaluated by dentist in terms of bleeding and wound healing.

We planned to extract without replacement therapy for one of our patients with mild haemophilia B and primary tooth extraction. We reserved replacement therapy in case of post-op severe bleeding. However there was no need to use it because Ankaferd Blood Stopper was good enough to cease bleeding.

We had to apply post-replacement therapy to severe hemophiliac patients who had undergone complicated extraction.

According to our results the treatment could be an alternative way to post-replacement therapy in the case of mild and moderate hemophiliac patients in terms of bleeding and wound healing.

Advantages over traditional treatment (factor concentrates) are the lack of antigenicity, viral safety and its cost regarding the replacement treatment.

In order to study, to evaluate the efficacy of Ankaferd Blood Stopper there is the need of an increase in the number of cases.

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