

ankaferd
BLOODSTOPPER[®]
GASTROENTEROLOGY



ankaferd
BLOODSTOPPER[®]
Hemostatic Agent



• ABSORBABLE WET TAMPON

5 ml. (5 cm.x5cm.) / 1 box x 1 unit
10ml. (5 cm.x10cm.) / 1 box x 1 unit

What is Ankaferd Blood Stopper® (ABS)?

ABS is a novel hemostatic agent for the “difficult-to-manage” subtypes of GI bleedings. It can serve as an adjuvant and/or primary agent for complicated area.

ABS is a standardized mixture of the plants. It does not contain human blood derivatives, animal tissue, chemical products and alcohol. %100 herbal.

Urtica dioica



Vitis vinifera



Glycyrrhiza glabra



Alpinia officinarum

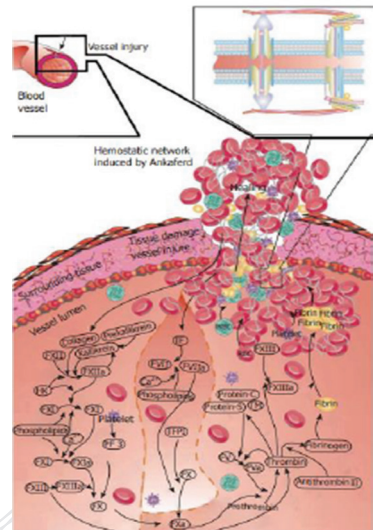


Thymus vulgaris



Unique Working Mechanism

Ankaferd Blood Stopper® (ABS)-induced formation of the unique protein network within the vital erythroid aggregation covers the entire physiological hemostatic process. Red blood cell (RBC) elements (such as spectrin and ankrin surface receptors, and internal ferrochelataze enzyme), related transcription factors (such as GATA-1) and RBC-related proteins (such as urotensin) are the main targets of ABS. Those proteins and the required adenosine triphosphate bioenergy are included in the protein library of Ankaferd.



Why Ankaferd ?



Fast & Strong

ABS reveals a very fast (<1second) protein network in the bleeding area.



Effective for Patients

It is effective in patients with primary and/or secondary hemostasis.



Antimicrobial

It is antimicrobial and antifungal. It destroys the microorganisms in and around the application area.



Wound Healing

ABS application results in a clean wound healing that is as strong as the primary repair.



Herbal Formula

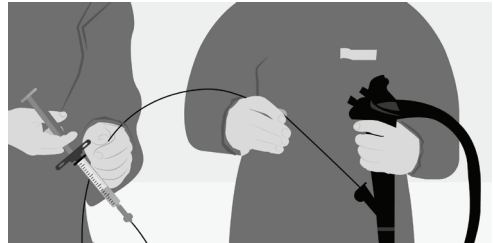
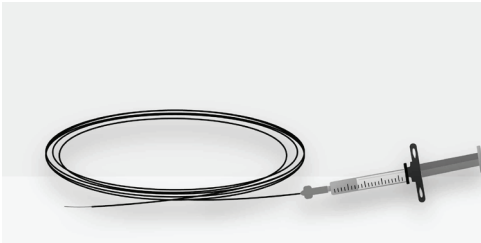
It does not contain inorganic / synthetic additives and alcohol. It is hypoallergenic.



Ready to Use

It does not require a cold chain, it can be easily stored and is easy to carry.

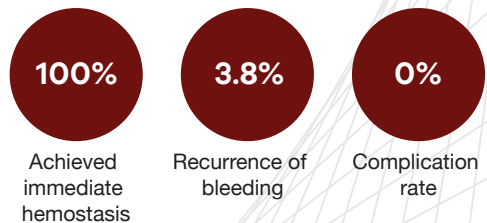
Open, Lock and Spray



- Ankaferd Solution injectors are compatible with the catheter. It can be combined with endoscopic and laparoscopic devices.
- Please remove the syringe cap and lock the syringe to a spray catheter or sclerotherapy needle. Place inside the endoscope working channel to spray the ABS on the bleeding point. Oxidized Regenerated Cellulose can also be used when needed.

Comfort of intervention, comfort of the patient

In a retrospective case series of 26 patients with upper- and lower-GI bleeding of various causes where Ankaferd is used whether primary or as an adjuvant to conventional modalities (including Mallory-Weiss tear, Dieulafoy lesion, GAVE, radiation proctopathy, and postpolypectomy bleeding), application of ABS provided hemostasis in all patients. ABS may have a role as a primary treatment or as an adjuvant to conventional modalities.^[1]



[1] Kurt M, Onal I, Akdogan M, et al. Ankaferd blood stopper for controlling gastrointestinal bleeding due to distinct benign lesions refractory to conventional antihemorrhagic measures. Can J Gastroenterol 2010;24:380-4, 33.

When to use Ankaferd Blood Stopper[®](ABS)?

ABS is an effective hemostatic agent for wide range of GI bleedings that are resistant to conventional anti-hemorrhagic measurements.

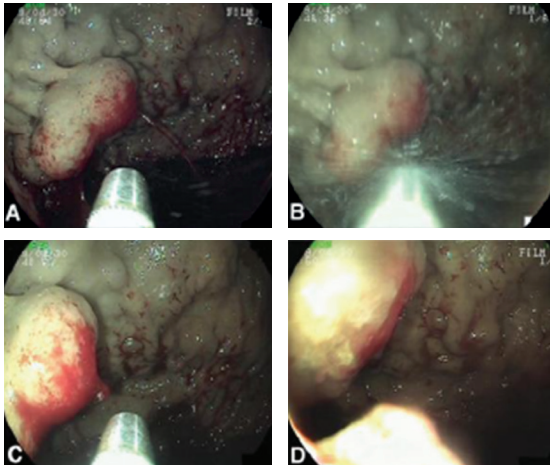


Figure 1. A, Spurting hemorrhage from tumor-shaped fundal varices is shown. B, ABS is sprayed over the lesion through a washing pipe. C, Bleeding stops in 18 seconds. D, Two minutes after the application of ABS, a protein network, which gives the yellowish color, is formed and covers the bleeding site. The hemorrhage is completely controlled.[2]

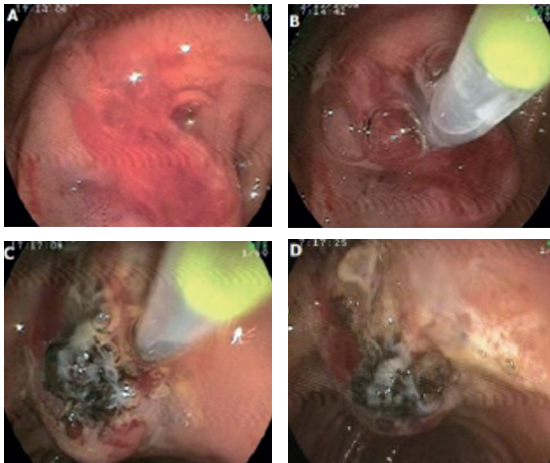


Figure 3. Ankaferd application during endoscopic sphincterotomy. A: Early bleeding during the endoscopic sphincterotomy; B: Ankaferd blood stopper (ABS) topically applied to the bleeding area; C: Hemorrhage was immediately controlled just after topical ABS administration; D: The bleeding site was covered by the hemostatic network related with the ABS application and hemorrhage was stopped. [3]

[2] Tuncer I, Doganay L, Ozturk O. Instant control of fundal variceal bleeding with a folkloric medicinal plant extract: Ankaferd Blood Stopper. *Gastrointest Endosc.* 2010;71(4):873-875.
[3] Beyazit Y, Kekilli M, Haznedaroglu IC et al. Ankaferd hemostat in the management of gastrointestinal hemorrhages. *World J. Gastroenterol.* 2011; 17: 3962-70.

Ankaferd Blood Stopper[®] (ABS) FAQs

What is Ankaferd Blood Stopper[®] (ABS)?

Ankaferd Blood Stopper[®] (ABS) is used for stopping capillary hemorrhage, leakage, capillary, venous and arterial bleeding during endoscopic procedure in case of traumatic hemorrhages, sudden bleeding, surgical blebs, intensive hemorrhages, hemorrhage after surgery.

How does it work?

The basic mechanism of action for ABS appears to be the formation of an encapsulated protein network that provides focal points for erythrocyte aggregation. Rather than affecting an individual clotting factor, this protein mesh affects the entire physiological hemostatic process that controls bleeding.

What are the anticipated advantages over other therapies?

Due to its liquid form, it provides clear camera view. Controls even "difficult to manage" situations. It has %100 herbal formula without any adverse effect and if second look is required after the first endoscopy ABS does not prevent interventions unlike the powder forms. Provides wound healing and shows antimicrobial effect.

Is there any situation where Ankaferd Blood Stopper[®] (ABS) should not be used ?

There are no situations where it should not be used.

Why brownish color occurs after the usage ?

There is high iron content of ABS. Iron ion can play a significant role in the ABS-induced cellular hemostasis located in the crossroads of RBC-fibrinogen interactions which can cause brownish color on the applied area.

Is Ankaferd Blood Stopper[®] (ABS) effective on anticoagulated patients?

The network formed by Ankaferd Blood Stopper[®] (ABS) affects the entire physiological hemostasis process without specifically affecting any coagulating factor. Therefore, ABS is effective both in individuals with normal hemostasis parameters and in patients with primary and/or secondary hemostasis insufficiency, including disseminated intravascular coagulation.

Does the product need to be removed after use?

No, it does not require removal.

Is there a wound healing effect of Ankaferd Blood Stopper?

Ankaferd Blood Stopper[®] (ABS) supports wound healing by promoting neovascularization, which helps rapid wound healing. The effect of ABS in providing mechanical strength as strong as primary repair can be attributed to increased fibroblast activity.

How can I tell when enough Ankaferd Blood Stopper has been deployed and hemostasis is achieved?

Continue applying Ankaferd Blood Stopper[®] (ABS) until the bleeding site is completely covered liquid and no active bleeding is visualized.

Is there a limit to the amount of Ankaferd Blood Stopper that can be applied?

No, there is no dosage limit.

Are there any special storage requirements for this device?

Similar to current devices, store in a dry location, away from temperature extremes.

Are there any postprocedural recommendations when using Ankaferd Blood Stopper?

Follow normal pre- and postprocedural standards of care.

Has there been evidence of embolization?

Ankaferd Blood Stopper[®] (ABS) is not intended for intramuscular and intravenous use. It must be applied topically and does not cause embolization.

What data/publications are currently available for Ankaferd Blood Stopper?

There are 261 publications available on PubMed.



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Hemostatic Agent

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