EndoClot® FAQ

What is EndoClot® PHS?
EndoClot® PHS (Polysaccharide Hemostatic System) is a single-use medical device composed of absorbable modified polymer (AMP® particles) and an applicator with a tube connecting to a clean external air source (preferably EndoClot® Air Compressor) to spray the plant-based absorbable hemostatic powder onto the bleeding site in both upper and lower GI tract. AMP® particles have been used in over 400,000 open surgery cases, and it is proven to be safe and effective.

How does it work?
AMP® particles have a molecular structure that rapidly absorbs water from blood. This dehydration process causes a high concentration of platelets, red blood cells, and coagulation proteins (thrombin, fibrinogen, etc.), which accelerates the normal, physiologic clotting cascade. When in contact with blood, AMP® particles support the formation of a gelled, adhesive matrix which provides a mechanical barrier to further bleeding.

How long will the EndoClot® powder stay in the GI tract?
AMP® particles are degraded within a few hours depending on the amount of material applied and the site where it is used within the GI tract. AMP® particles are degraded by amylase and glucoamylase.

When should I use EndoClot® PHS?
EndoClot® PHS works particularly well in controlling oozing bleeding over large areas, indications such as:

- Ulcerative bleeding
- Post polypectomy
- Tumor bleeding
- Post EMR, ESD
- In-stent bleeding
- Mallory-Weiss tear etc.
EndoClot® PHS is also a good complimentary method to use in combination with other conventional techniques. EndoClot® PHS is not recommended as a monotherapy for controlling Forrest Ia bleeding or variceal bleeding.

**What are the technology advantages of the EndoClot® application system?**
- The unique anti-reflux design prevents occlusion
- The powder is sprayed directly to the designated area without stress to the lesion
- Works for both gastroscopy and colonoscopy
- Enables gradual and precise powder delivery to avoid a “white out” effect

**What are the advantages of AMP® powder?**
- Contains no human or animal components
- Effective hemostat
- 100% biodegradable
- Can be used in combination with other established techniques in any sequence
- Can be easily irrigated and re-applied if necessary

**Is Endoclut® PHS effective for patients with impaired coagulation?** A Clinical study suggested that sufficient hemostasis can be achieved by using EndoClot® PHS for patients receiving anticoagulant medication or other coagulation impairment.

**Does the gelled matrix need to be removed?**
It is not necessary to irrigate the powder or clot away after hemostasis is achieved. The AMP® particles are plant-starch derived polysaccharide; it will be digested and absorbed naturally.
How can I prevent the catheter from becoming occluded?

- If you believe the accessory channel is very wet, use an empty syringe to pump air in prior to the insertion of the catheter.
- Make sure the air compressor is switched on and in the “H” mode before inserting the catheter into the accessory channel.
- Avoid direct contact with the lesion or surface of the mucosa.
- Keep the tip of catheter at least 1cm away from the lesion during the spray application.

Are there any side-effects of EndoClot® PHS?

No, there have been no reported side-effects.

Can I use EndoClot® PHS if the patient is allergic to starch?

Though it is very rare, if the patient is known to be allergic to starch, EndoClot® PHS should not be used.

How can I use EndoClot® PHS with clips?

EndoClot® PHS can be used in any sequence with clips.

- It can be used as a diagnostic tool to identify the exact bleeding spots for clipping.
- It can be used as an add-on therapy to clipping to achieve complete hemostasis.

What data/publications are currently available for EndoClot® PHS?