Hemorrhage Occluder™ Pin

A Simple Solution to a Very Severe Problem

Surgin’s Hemorrhage Occluder™ Pin with applicator is a simple well-documented solution to stop presacral bleeding quickly and effectively. Designed by Jeffrey W. Milsom, MD of the Weill Cornell Medical Center, the Hemorrhage Occluder™ Pin is indicated for the control of localized severe hemorrhage of the presacral area during pelvic surgery. Since its introduction in 1993 it has saved thousands of lives.

Serrated Titanium Pin for Secure Placement

The Hemorrhage Occluder™ Pin is made of titanium, a biocompatible metal commonly used for internal implants. The shaft of the Hemorrhage Occluder™ Pin is serrated for more secure placement in the sacrum. Research has shown that significantly more force is required to extract a serrated pin than a smooth one.

Malleable Applicator for Efficient Placement

The Hemorrhage Occluder™ Pin comes preloaded in an easy-to-use applicator. The long 12 inch shaft of the applicator is malleable and provides the surgeon with optimum visibility for precise pin placement at the bleeding site.
MRI Compatible

The Hemorrhage Occluder Pin is made of implant-grade titanium and is MRI compatible.

Available in Two Sizes

CR1007 – Hemorrhage Occluder™ Pin with Applicator, Standard – 10mm
CR1014 – Hemorrhage Occluder™ Pin with Applicator, Large – 14mm

How Supplied

• Each Pin is preloaded in its own applicator, individually packaged and STERILE.
• Two Pins are supplied per box.
• Single use only.

Indications

The Hemorrhage Occluder™ Pin is indicated for the control of localized severe hemorrhage from the presacral area during surgery. The pin should be used when other techniques (cautery, suture, clamping, etc.) are judged ineffective.

Contraindications

1. Bleeding deemed controllable by direct suture or electrocautery.
2. Severe instability of the patient as measured by severe hemorrhage or hypertension.
3. Bleeding further than 2 cm from the midline. Bleeding that appears to originate from a sacral neural formina or a vital structure such as a ureter, rectum, or vagina.
4. Diffuse hemorrhage related to a systemic coagulation disorder not controllable by fingertip pressure against the anterior surface of the sacrum.

Instructions for Use

• When the bleeding is controlled, prepare the preloaded sterile applicator for use by bending the malleable shaft as desired.
• Clear the surgical field of blood and clot, and retract adjacent organs for optimal visibility of the presacral area.
• Rapidly withdraw the hemostatic finger and place the Hemorrhage Occluder™ Pin directly over the bleeding area. Apply fingertip pressure to the head of the Pin, pushing it into the bone. Apply direct and steady pressure until the Pin is fully seated with the head of the Pin flush with the bony cortex.
• If fingertip pressure is not sufficient to fully seat the Pin, the Salgado Driver can be used to apply additional pressure.
• Consider placement of a second Pin if the bleeding continues and appears to be emanating from a second site. Avoid overlapping Pin heads.
Reusable instrument to assist in securing the Pin against the sacrum

- If fingertip pressure is not sufficient to secure the Pin completely against the sacrum, the Salgado Driver can be used to drive the Pin into the correct position.
- Necessary for cases with dense bony cortex or deep bleeds difficult to reach.
- Curved design rotates around the pubic symphysis.
- Reusable

Available in Two Sizes

CR2000 – Salgado™ Driver – Standard – 23cm length
CR2005 – Salgado™ Driver – Large – 35cm length (for patients with higher BMI).

Instructions for Use with Salgado™ Driver

Step 1
Place Pin directly over the bleeding area and apply steady pressure until the Pin is flush with the bony cortex.

Step 2
If it becomes too difficult to push the Pin fully against the bony cortex use the Salgado Driver.

Step 3
Place distal end of Driver over head of Pin and gently tap the handle with palm of hand to drive Pin fully into the sacrum.

Correct position

Incorrect position
Catalog Numbers & Descriptions

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<th>Catalog #</th>
<th>Description</th>
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<tr>
<td>CR1007</td>
<td>Hemorrhage Occluder Pin with Applicator, Standard - 10mm</td>
<td>2/box, Sterile</td>
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<td>CR1014</td>
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<td>Salgado Driver – Standard – 23cm length</td>
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Where to Order

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Bibliography