



# Hemorrhoid Artery Embolization (HAE)

Discover a Minimally Invasive Treatment for Hemorrhoids

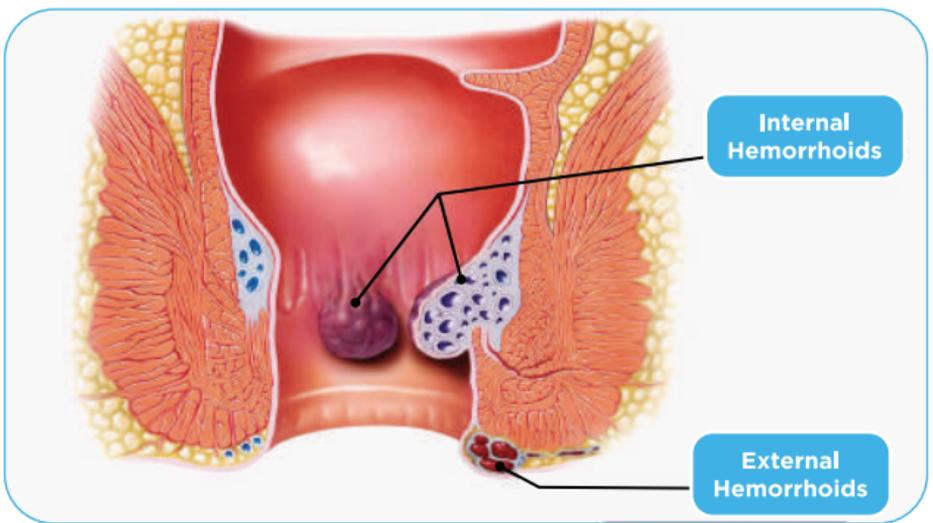


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# What are Hemorrhoids?



Hemorrhoids are normal "cushions" of tissue located around the junction of the rectum and anus. These cushions contain blood vessels and, in many people, can engorge with blood and enlarge over time. When this occurs, the hemorrhoids become symptomatic, causing issues that range from mild annoyance to severe discomfort and bleeding.



## Why do People Develop Hemorrhoids?



There are several factors that contribute to the development of hemorrhoids:

- Family history (genetics)
- Increased pressure on the rectum:
  - Prolonged sitting
  - Chronic constipation/diarrhea
  - Straining
  - Heavy weight lifting
- Anal intercourse
- Spinal cord injury

## Common Symptoms

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- ✓ Bleeding
- ✓ Itching
- ✓ Pain
- ✓ Perineal inflammation
- ✓ Soiling
- ✓ Prolapse (hemorrhoids can slip out of the anus usually during bowel movement)

## Diagnosis

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We can determine whether you have hemorrhoids based on the history provided and a direct physical examination. If there is any doubt, we may perform a fast in-office procedure called an anoscopy, allowing us to see into the rectum.

## Internal vs. External

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- 📄 **Internal hemorrhoids** are a type of hemorrhoid that develop inside the rectum. They are less common than external hemorrhoids, but they can still cause a lot of pain and discomfort.
- 📄 **External hemorrhoids** are a type of hemorrhoid that develop around the anus. They are more common than internal hemorrhoids, and they can be quite painful.

## Did You Know?

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**Hemorrhoids are common in both men and women and affect about 1 in 20 Americans.**

# Treatment Options



- For milder cases, **dietary and bowel habit modifications**, as well as **topical medications**, are attempted first.
- **Rubber band ligation (RBL)** is minimally invasive and is a good option for most people with symptomatic hemorrhoids.
- **Hemorrhoidectomy** is reserved for more severe cases. It is a surgical procedure that has an extended recovery period lasting weeks to months.
- Procedures such as **DG-HAL**, **photocoagulation**, **sclerotherapy**, and **radiofrequency ablation** have not been widely adopted due to lackluster outcomes and/or complications.
- **Hemorrhoidal Artery Embolization (HAE)** is a new and innovative option that is safe and effective, with a very short recovery time.

## HAE vs. Alternatives

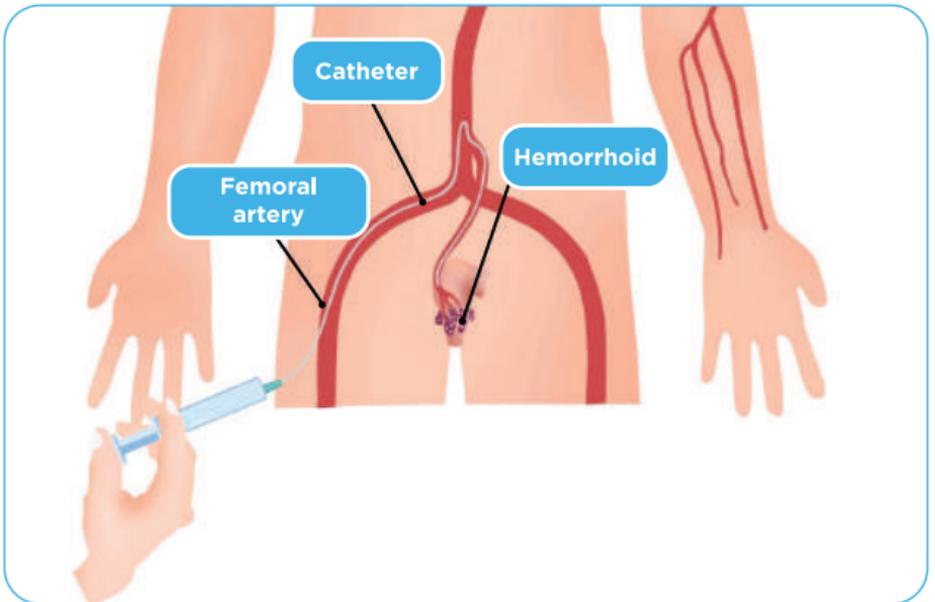


COMPARISONS	HAE	RBL	SURGERY
Post Procedure Discomfort	None	+	+++
Recovery Time	24 hours	2-3 weeks	4-8 weeks
Likelihood of Complications	Low	Low	High
Success Rate	80%	80%	90%
Risk of Fecal Incontinence	No	No	Yes
Risk of Needing Additional Treatment	Low	High	Low

# What is HAE?



**Hemorrhoid Artery Embolization (HAE)** is a minimally invasive procedure performed by an **interventional radiologist (IR)**. It is performed by inserting a small catheter through a puncture at the top of the leg into the femoral artery. The catheter is then guided into the arteries that supply the hemorrhoids where tiny coils are inserted to selectively block off blood flow, causing the hemorrhoids to shrink. Results are often noticeable within 24-48 hours.



# Benefits of HAE



- 1 1 hour outpatient procedure
- 2 Performed with mild sedation; no general anesthesia required
- 3 No incision, wound care, or post-procedure pain
- 4 Short recovery time; return to normal activities in 24-48 hours
- 5 Maintain fecal continence
- 6 Very low risk of complications

## A Personal Touch



At **Vivid Vascular**, we are dedicated to improving lives by providing cutting-edge interventional radiology solutions. Our commitment to innovation and patient-centered care sets us apart.

Unlike the hospital environment, each patient at Vivid Vascular receives individualized attention from our professional, knowledgeable, and compassionate staff in a calm, soothing, boutique-style atmosphere.

**Dr. Adam Gropper** is an interventional radiologist with more than 20 years of experience. He has performed thousands of minimally invasive procedures.

## Locations



**Aventura** | 15400 Biscayne Blvd • Suite 103  
• Aventura, FL 33160

**Kendall** | 11760 Bird Road • Suite 506  
• Kendall, FL 33175

## Contact Us



 [www.vividvascular.com](http://www.vividvascular.com)  
 [info@vividvascular.com](mailto:info@vividvascular.com)  
 305 • 957 • 7277

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