

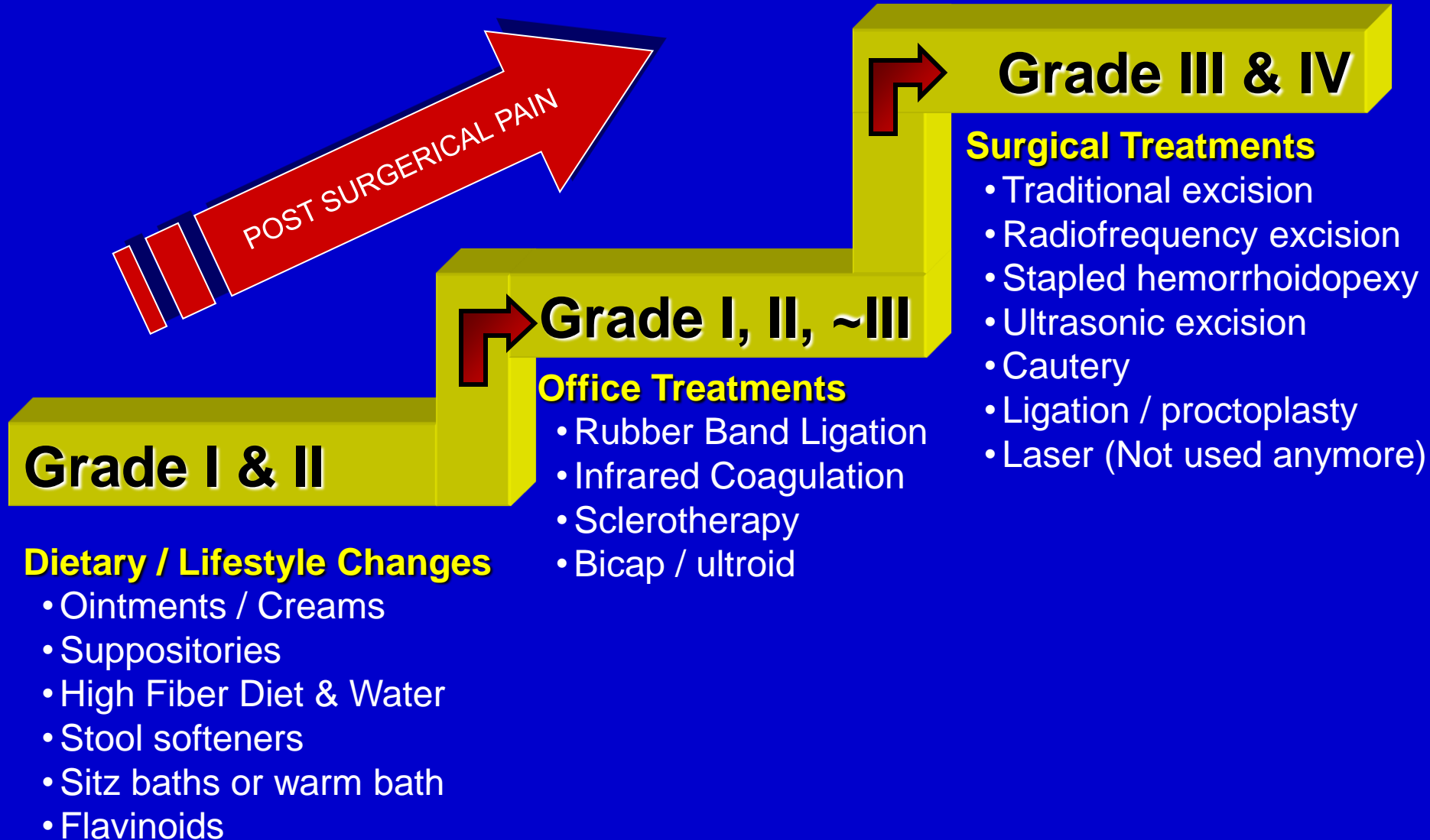
# INTERNAL HEMORRHOIDS: Banov Classifications

Published in 1985; Used by the American Society of Colon and Rectal Surgeons

<b>STAGE</b>	<b>SIGNS</b>	<b>SYMPTOMS</b>
<b>1</b>	<ul style="list-style-type: none"><li>•“Bleeding”??</li><li>•No prolapse</li><li>•No pain, itching</li></ul>	<ul style="list-style-type: none"><li>•Bleeding</li><li>•No prolapse</li><li>•No discomfort</li></ul>
<b>2</b>	<ul style="list-style-type: none"><li>•Bleeding</li><li>•Usually prolapse</li><li>•Spontaneous reduction</li></ul>	<ul style="list-style-type: none"><li>•Bleeding</li><li>•Prolapse</li><li>•Itching, mild discomfort</li></ul>
<b>3</b>	<ul style="list-style-type: none"><li>•Bleeding</li><li>•Readily prolapse</li><li>•Manual reduction</li></ul>	<ul style="list-style-type: none"><li>•Bleeding</li><li>•Prolapse</li><li>•Itching, moderate discomfort</li></ul>
<b>4</b>	<ul style="list-style-type: none"><li>•Bleeding</li><li>•Permanent prolapse</li><li>•Non-reducible</li></ul>	<ul style="list-style-type: none"><li>•Bleeding</li><li>•Prolapse</li><li>•Itching, Pain</li><li>•Incontinence</li></ul>

# INTERNAL HEMORRHOIDS:

## Management



# OVERVIEW:

## Pros & cons of treatment options

TREATMENT OPTION	PROS	CONS
Over the counter topical medications	<ul style="list-style-type: none"> <li>• Convenient to carry anywhere</li> <li>• Affordable</li> <li>• Patient has some control</li> <li>• Immediate symptom relief</li> </ul>	<ul style="list-style-type: none"> <li>• Messy, unpleasant to apply</li> <li>• Extremely high recurrence</li> <li>• No permanent effect</li> <li>• Relief is limited for advanced cases</li> </ul>
Sitz baths Warm baths	<ul style="list-style-type: none"> <li>• Provides some relief on contact</li> <li>• Affordable</li> <li>• Patient has some control</li> </ul>	<ul style="list-style-type: none"> <li>• Time-consuming</li> <li>• Not portable</li> <li>• Relief temporary</li> </ul>
Dietary	<ul style="list-style-type: none"> <li>• Inexpensive</li> <li>• Useful for other diseases</li> <li>• Easy to comply</li> </ul>	<ul style="list-style-type: none"> <li>• Inconvenient</li> <li>• Requires lifestyle changes</li> <li>• Long-term success is unlikely</li> </ul>
Flavinoids	<ul style="list-style-type: none"> <li>• Moderate expense</li> <li>• No pain</li> <li>• Vey low risks</li> </ul>	<ul style="list-style-type: none"> <li>• Long term success unknown</li> <li>• No permanent effect</li> <li>• No effect on prolapse</li> </ul>
Sclerotherapy	<ul style="list-style-type: none"> <li>• Simple</li> <li>• Office procedure</li> <li>• Relatively painless</li> </ul>	<ul style="list-style-type: none"> <li>• Long term success is sparsely reported</li> <li>• Used when bleeding is main symptom</li> <li>• Requires an injection</li> </ul>

# OVERVIEW:

## Pros & cons of treatment options

TREATMENT OPTION	PROS	CONS
Infrared Coagulation	<ul style="list-style-type: none"><li>• Quick in-office procedure</li><li>• Minimal discomfort</li><li>• Minimal tissue loss</li><li>• Cheap</li></ul>	<ul style="list-style-type: none"><li>• Multiple visits</li><li>• Not performed commonly</li><li>• High recurrence rate</li><li>• Rare complications</li></ul>
Rubber Band Ligation	<ul style="list-style-type: none"><li>• Lowest recurrence rate of office procedures</li><li>• Versatile</li><li>• Removes some hemorrhoid tissue</li><li>• Cheap</li></ul>	<ul style="list-style-type: none"><li>• Multiple visits</li><li>• No effect on external disease</li><li>• High recurrence rate</li><li>• Rare complications</li></ul>
Procedure for Prolapse and Hemorrhoids (PPH)	<ul style="list-style-type: none"><li>• Places hemorrhoid in normal position</li><li>• Moderate pain</li><li>• Return to normal activity in 2-3 days</li><li>• Performed under regional or general</li></ul>	<ul style="list-style-type: none"><li>• Possible complications</li><li>• Possible anal incontinence</li><li>• Persistence of skin tags</li><li>• Persistent urgency</li></ul>
Excisional Hemorrhoidectomy	<ul style="list-style-type: none"><li>• Removes most hemorrhoid tissue</li><li>• Lowest recurrence rates overall</li><li>• Durable &amp; Time proven</li><li>• Performed under regional or general</li></ul>	<ul style="list-style-type: none"><li>• Very painful recovery</li><li>• 2-3 week recovery</li><li>• Possible short-term incontinence</li><li>• Cost of postoperative care?</li></ul>
Doppler-guided De-arterialization	<ul style="list-style-type: none"><li>• Performed under regional or general</li><li>• Moderate pain</li><li>• Performed under regional or general</li></ul>	<ul style="list-style-type: none"><li>• Persistence of skin tags</li><li>• 1 – 2 week recovery</li><li>• Possible complications</li></ul>