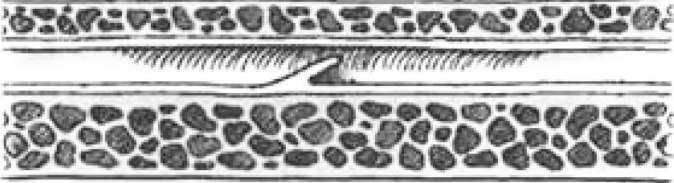
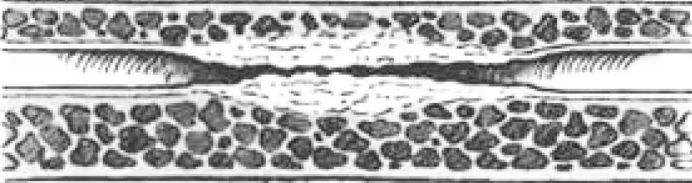
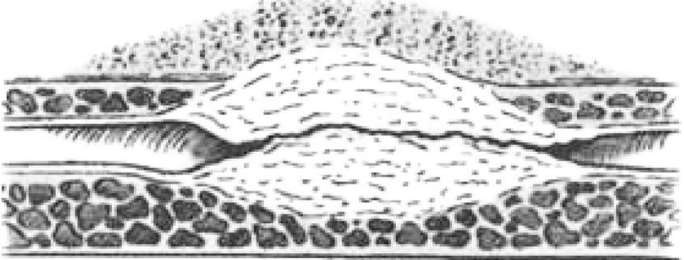
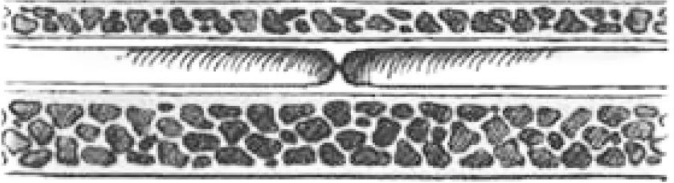
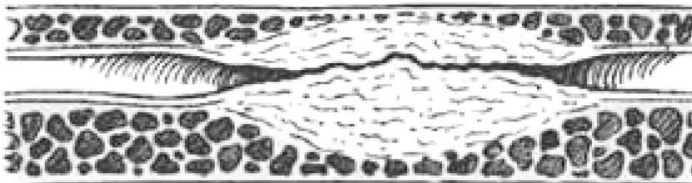
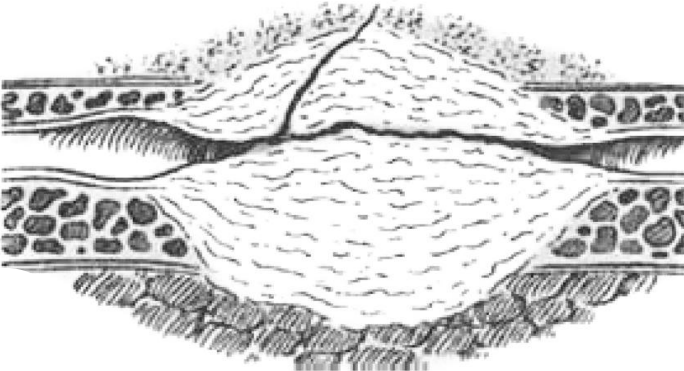


# ANTERIOR URETHRA: HISTOPATHOLOGY OF URETHRAL STRICTURE

Exclusive involvement of MUCOSA	MUCOSAL + CORPUS SPONGIOSUM involvement	
 <p>“Iris” stricture</p>	 <p>Mucosal fibrosis Minimal fibrosis of spongy tissue</p>	 <p>Spongiofibrosis + perispongiosa</p>
 <p>Mucosal fold</p> <p>Devine, 1983</p>	 <p>Spongiofibrosis</p>	 <p>Complete stricture + fistula</p>

NORMAL	STRICTURE
<ul style="list-style-type: none"> <li>• Pseudostratified columnar epithelium</li> <li>• Fibroblasts</li> <li>• Extracellular matrix:               <ul style="list-style-type: none"> <li>Collagen: <b>type I: 75%</b>, type III: 25%</li> <li>Glycosaminoglycans (GAGs)</li> <li>Elastic fibers</li> <li>Glycoproteins</li> </ul> </li> <li>• Corpus spongiosum:               <ul style="list-style-type: none"> <li>Vascular sinusoids</li> <li>Smooth muscle</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Squamous metaplasia</li> <li>• Fibroblasts +++</li> <li>• Abnormal extracellular matrix:               <ul style="list-style-type: none"> <li>Collagen: <b>type III: 84%</b>, type I: 16%</li> <li>Altered GAGs</li> </ul> </li> <li>• Corpus spongiosum:               <ul style="list-style-type: none"> <li>Vascular sinusoids ↓</li> <li>Smooth muscle ↓</li> </ul> </li> <li>• Alterations in nitric oxide synthesis</li> </ul>

## QUALITATIVE, NOT QUANTITATIVE COLLAGEN ALTERATION

Alterations in the extracellular matrix produce two types of changes:

**Decreased distensibility:** decreased smooth muscle → reduced elasticity

pathological but functional and patent segment. Does not always require urethroplasty

**Fibrotic segment:** non-functional segment, requires urethroplasty

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