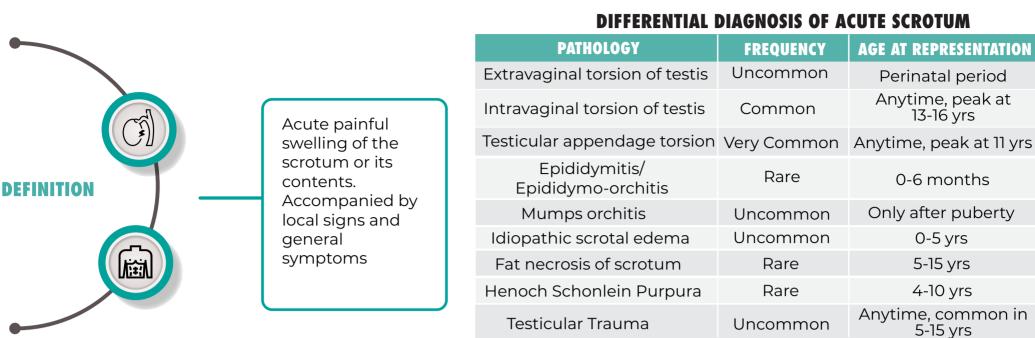


Ministry of Health and Family Welfare, Government of India

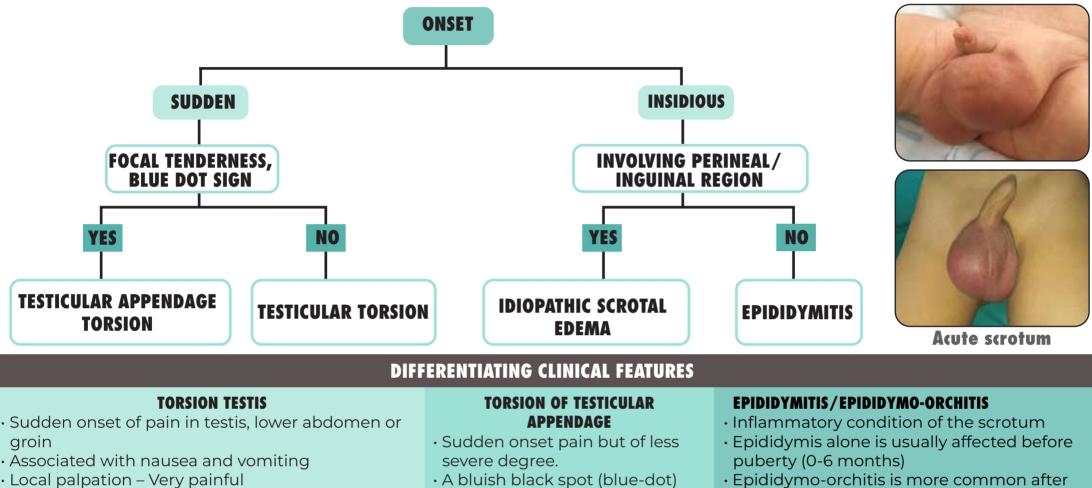


## **Standard Treatment Workflow (STW) ACUTE SCROTUM IN CHILDREN**

## ICD-10-N50.8



## **PAINFUL SCROTAL SWELLING - DECISION TREE**



Local palpation – Very painful

July/ 2022

<ul> <li>Hemiscrotum - F discoloration (Inf Transverse lie of Absent cremastr</li> </ul>	testis through	seen at the upper pole of the testis through the skin • Palpation of the testis less painful			puberty • History suggestive of -Urinary tract abnormalities or urethral instrumentation • Infecting organism - Usually <i>Escherichia coli</i>					
MUMPS ORCHITIS• Affects post- pubertal testis• Confused with torsion of testis or appendages• Edema of scrotum with spread to from inguinal region, penis, or pe • Cause of edema - may be bacteri cellulitis or a topical allergy			or its · Sudd tende to or scrota perineum · Affect erial · Histo	tender bilateral lumps in scrotal skinor <td colspan="3"><ul> <li>HENOCH SCHONLEIN PURPURA</li> <li>Present with signs of acute scrotal swelling</li> <li>Before or after other systemic signs and symptoms</li> <li>Most commonly bilateral and rarely painful</li> </ul></td>			<ul> <li>HENOCH SCHONLEIN PURPURA</li> <li>Present with signs of acute scrotal swelling</li> <li>Before or after other systemic signs and symptoms</li> <li>Most commonly bilateral and rarely painful</li> </ul>			
INVESTIGATIONS										
<ul> <li><b>TESTICULAR TORSION IS MOST</b> <b>IMPORTANT CONDITION TO RULE</b> <b>OUT</b></li> <li>Unequivocal cases <ul> <li>No investigations- Immediate scrotal exploration</li> <li>Equivocal cases</li> <li>Doppler study of scrotum</li> <li>Radionuclide testicular scan</li> </ul> </li> </ul>		• Mano scro scro • Desi	• Mandatory- USG scrotum and Doppler scrotum • Desirable-Urine analysis		EPIDIDYN • Mandatory analysis • Desirable - Ultrasonog scrotum	- Urine		ris Fisher TESTICULAR TRAUMA • Mandatory: USG scrotum		
TREATMENT										
<ul> <li>Clinical exploration if bell clapper deformity seen</li> <li>Contralateral orchiopexy if bell clapper</li> </ul>			<ul> <li><b>TORSION OF TESTICULAR</b> APPENDAGE</li> <li>Restricted activity</li> <li>Warm compression</li> <li>Anti inflammatory drugs</li> <li>If not differentiable from torsion testis- Exploration and excision of necrotic appendage</li> </ul>		<b>IDIOPATHIC SCROTAL EDEMA</b> • Anti-histaminics • Topical corticosteroids		• Suppo treatm • Rarely	ortive	TESTICULAR INJURY • Mostly supportive • Surgery if larg hematoma/ tunica albuginea rupture on USC	
REFERENCES										

1. Cavusoglu YH, et al. Acute scrotum - etiology and management. Ind J Pediatr 2005;72:201.

- 2. McAndrew HF et al. The incidence and investigation of acute scrotal problems in children. Pediatr Surg Int 2002;18:435.
- 3. Tekgul S, Dogan HS, Hoebeke P et al. EAU guidelines on Pediatric Urol. 2016;3.4:19-21.

## KEEP A HIGH THRESHOLD FOR INVASIVE PROCEDURES

This STW has been prepared by national experts of India with feasibility considerations for various levels of healthcare system in the country. These broad guidelines are advisory, and are based on expert opinions and available scientific evidence. There may be variations in the management of an individual patient based on his/her specific condition, as decided by the treating physician. There will be no indemnity for direct or indirect consequences. Kindly visit the website of DHR for more information: (stw.icmr.org.in) for more information. ©Department of Health Research, Ministry of Health & Family Welfare, Government of India.