

STANDARD TREATMENT WORKFLOW (STW)

Scrotal Swelling

Amlesh Seth¹, Anup Kumar², Rakesh Kapoor³, Dorairajan Narayanan⁴, Santosh Kumar⁵, Divakar Dalela⁶, Anil Mandhani⁷, Shivam Priyadarshi⁸, Ravi Mohan Mavuduru⁹, TP Rajeev¹⁰

¹All India Institute of Medical Science, New Delhi; ²Safdarjung, New Delhi; ³Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow; ⁴Jawaharlal Institute of Postgraduate Medical Education and Research, Pondyerry; ⁵Christian Medical College Vellore; ⁶Ex King George's Medical College, Lucknow; ⁷Medanta, Gurugram; ⁸Sawai Man Singh Medical College Jaipur; ⁹Post Graduate Institute of Medical Education and Research Chandigarh; ¹⁰Guhawati Medical College, Guhawati

CORRESPONDING AUTHOR

Dr. Amlesh Seth, Department of Urology, All India Institute of Medical Science, New Delhi
Email: amlesh.seth@gmail.com

CITATION

Seth A, Kumar A, Kapoor R, Narayanan D, Kumar S, Dalela D, Mandhani A, Priyadarshi S, Mavuduru RM, Rajeev TP. Scrotal Swelling. Journal of the Epidemiology Foundation of India.

2024;2(1Suppl):S59-S60. DOI: <https://doi.org/10.56450/JEFI.2024.v2i1Suppl.030>

This work is licensed under a Creative Commons Attribution 4.0 International License.

©The Author(s). 2024 Open Access

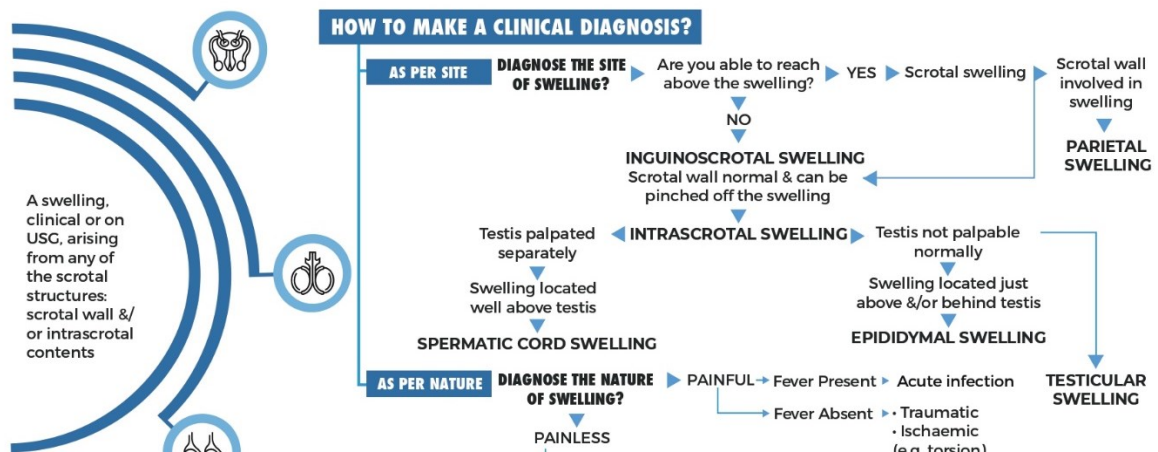
DISCLAIMER

This article/STW, was originally published by Indian Council of Medical Research (ICMR) under Standard Treatment Workflow. The reprinting of this article in Journal of the Epidemiology Foundation of India (JEFI) is done with the permission of ICMR. The content of this article is presented as it was published, with no modifications or alterations. The views and opinions expressed in the article are those of the authors and do not necessarily reflect the official policy or position of JEFI or its editorial board. This initiative of JEFI to reprint STW is to disseminate these workflows among Health Care Professionals for wider adoption and guiding path for Patient Care.

October 2018



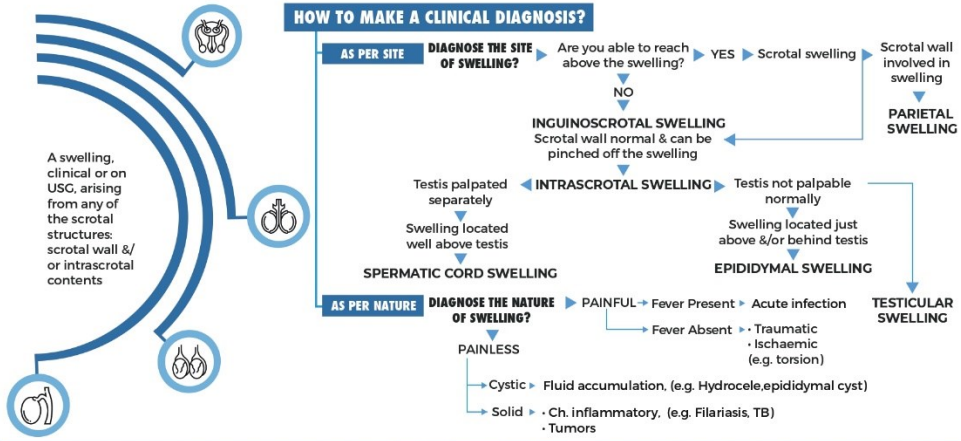
Standard Treatment Workflow (STW) for the Management of SCROTAL SWELLING ICD-10-N50.89



October 2024

Standard Treatment Workflow (STW) for the Management of SCROTAL SWELLING

ICD-10-N50.89



MAKE A CLINICAL DIAGNOSIS

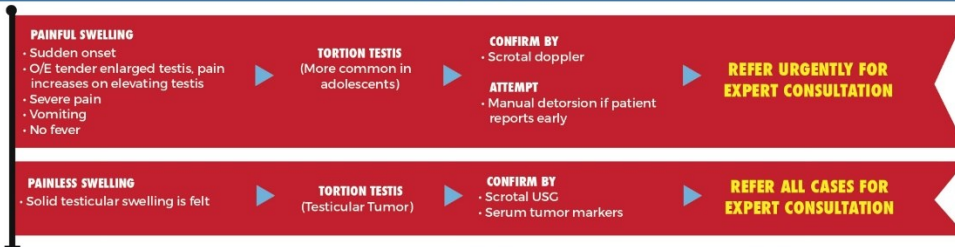
PARIETAL (SCROTAL WALL) SWELLINGS

	BILATERAL	UNILATERAL
Ac. Inflammation	<ul style="list-style-type: none"> Cellulitis Fournier gangrene 	<ul style="list-style-type: none"> Reactionary to epididymo-orchitis Furuncle Abscess
Traumatic	Contusional	Blunt trauma
Ch. Inflammation	Filarial Elephantiasis	
Fluid Accumulation	<ul style="list-style-type: none"> Edema in anasarca, IVC thrombosis Urinary extravasation 	Scrotal wall cysts
Neoplasm		Melanoma, Scrotal Carcinoma, Dermatofibroma;

INTRASCROTAL SWELLINGS

	Testicular	Epididymal	Spermatic cord
Cystic	Hydrocele	<ul style="list-style-type: none"> Epididymal cyst Spermatocele 	Varicocele
Solid	<ul style="list-style-type: none"> Painless: Testicular tumor Painful: Torsion testis, Orchitis 	<ul style="list-style-type: none"> Painless: Ch. Filarial epididymitis, Ch. Tuberculous Epididymitis, Adenomatoid tumor Painful: Ac. Epididymitis 	<ul style="list-style-type: none"> Painless: Lipoma cord Painful: Funiculitis





RED FLAG SIGNS



INVESTIGATIONS

SUSPECTING AC. INFLAM DISEASE	SUSPECTING CH. INFLAMMATORY DIS.	SUSPECTING TESTICULAR TUMOR	SUSPECTING TORSION	SUSPECTING VARICOCELE
Essential TLC/DLC Blood sugar Desirable Anti filarial antibody	Essential TLC/DLC ESR Desirable Anti filarial Ab TB Gold test Scrotal USG	Essential Beta hCG Alfa feto Abdomino-protein Serum LDH Desirable Scrotal USG Abdomino-Pelvic CECT Scan	Essential TLC/DLC Desirable Scrotal doppler	Essential TLC/DLC Desirable Scrotal doppler

HOW TO TREAT COMMON CONDITIONS?

PARIETAL SWELLINGS	INTRASCROTAL SWELLINGS
<p>FURUNCLE/ABSCESS</p> <ul style="list-style-type: none"> Broad Spectrum Antibiotic Amoxy + Clavulanic acid Consider drainage if fluctuations+ or impending rupture <p>REFER</p> <ul style="list-style-type: none"> If abscess appears part of underlying disease Nonresponders Immunocompromised patient <p>FILARIAL ELEPHANTIASIS</p> <ul style="list-style-type: none"> DEC 100 mg TDS x 20 days Doxycycline 100 mg BD x 20 days Scrotal Elevation/support <p>REFER</p> <ul style="list-style-type: none"> Non responders Huge size 	<p>AC. EPIDIDYMO-ORCHITIS</p> <ul style="list-style-type: none"> If patient had a urinary tract instrumentation or dysuria - suspect bacterial type, treat by - antibiotic and support <p>REFER if no response in 48 hrs</p> <ul style="list-style-type: none"> Treat all other cases as filarial by - DEC 100 mg x TDS x20 days Doxycycline 100 mg x BD x 20 days Give anti inflammatory drugs to all <p>HYDROCELE</p> <ul style="list-style-type: none"> Small size - no treatment Moderate to large - Do hydrocelectomy Aspiration can be performed under aseptic precautions in select cases <p>REFER if not trained to do the surgery</p>
 	<p>CHRONIC EPIDIDYMO-ORCHITIS</p> <ul style="list-style-type: none"> Mostly filarial in origin but if - Patient has had H/O UTI or urethral catheterization, suspect bacterial Patient has H/O TB, suspect tuberculosis Treat by DEC 100 mg TDS + Doxycycline 100 mg BD for 20 days <p>REFER if</p> <ul style="list-style-type: none"> No response to treatment Epididymal abscess or local sinus discharging syrup like pus <p>VARICOCELE</p> <ul style="list-style-type: none"> Counsel for semen analysis (2-3 times) REFER if 'discrepancy in size of testis' and/or 'abnormal semen parameters present' Rest all cases be given symptomatic treatment  

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 our web portal (stw.icmr.org.in) for more information.

© Indian Council of Medical Research and Department of Health Research, Ministry of Health & Family Welfare, Government of India.