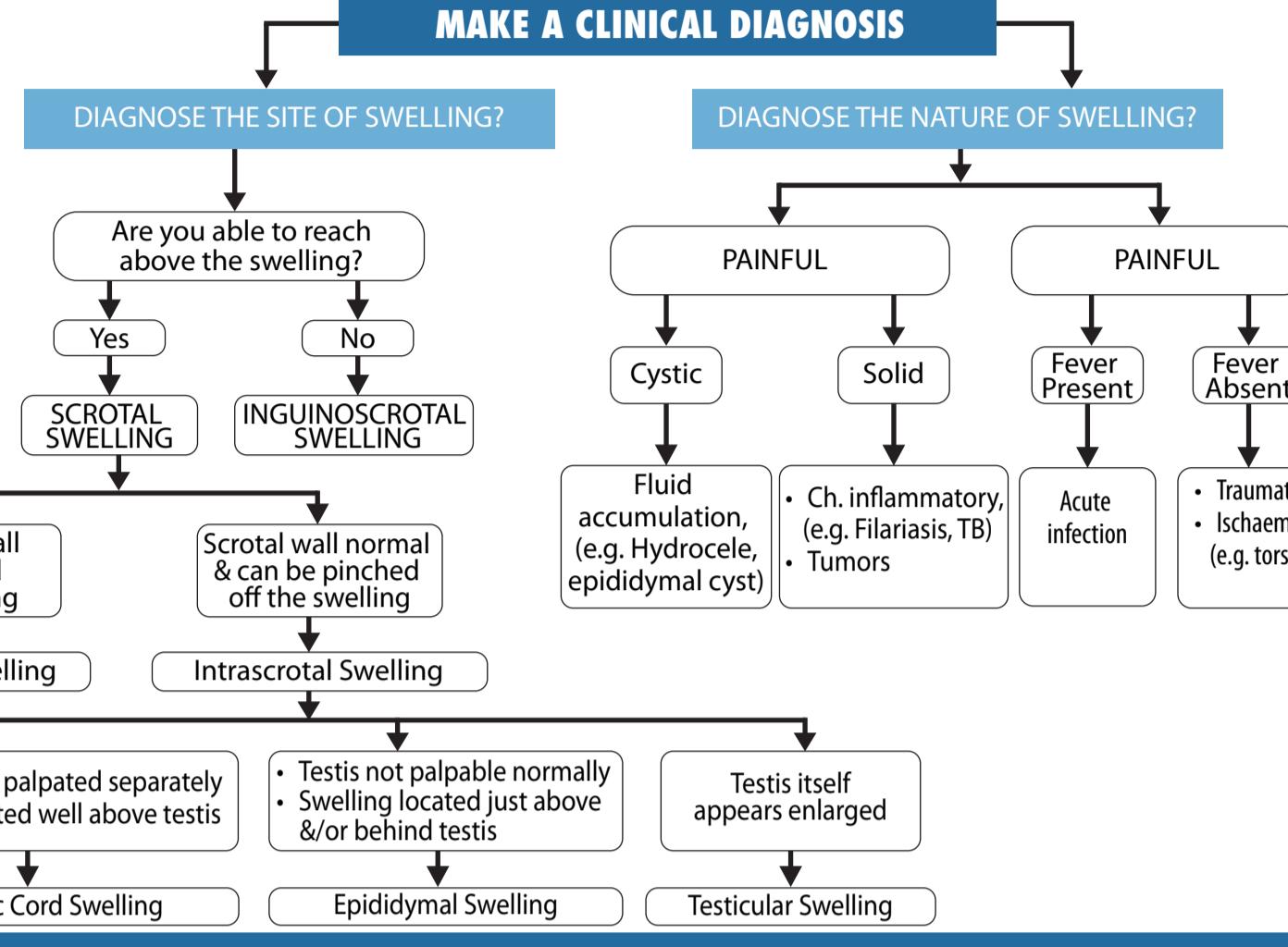




## Standard Treatment Workflow (STW) SCROTAL SWELLING

ICD-11-N50.89



### MAKE A CLINICAL DIAGNOSIS

#### PARIETAL (SCROTAL WALL) SWELLINGS

#### INTRASCROTAL SWELLINGS

BILATERAL		UNILATERAL
Ac. Inflammation	• Cellulitis • Fournier gangrene	• Reactionary to epididymo- orchitis • Furuncle, Abscess
Traumatic	Contusional	Blunt trauma
Ch. Inflammation	Filarial Elephantiasis	
Fluid Accumulation	• Edema in anasarca, IVC thrombosis • Urinary extravasation	Scrotal wall cysts
Neoplasm		Melanoma, Scrotal Carcinoma Dermatofibroma;

Testicular	Epididymal	Spermatic cord
Cystic	Hydrocele	• Epididymal cyst • Spermatocele
Solid	<b>Painless</b> • Testicular tumor <b>Painful</b> • Torsion testis • Orchitis	<b>Painless</b> • Ch. Filarial epididymitis • Ch. Tuberculous Epididymitis • Adenomatoid tumor <b>Painful</b> • Ac. Epididymitis
		Varicocele
		<b>Painless</b> • Lipoma cord
		<b>Painful</b> • Funiculitis

### RED FLAG SIGNS

#### PAINFUL SWELLING

- Sudden onset-Severe pain, Vomiting
- O/E tender enlarged testis, pain increases on elevating testis
- No fever

#### TORSION TESTIS

(More common in adolescents)

#### CONFIRM BY

- Scrotal doppler
- To save testis, surgery should be done within six hours

**REFER URGENTLY FOR EXPERT CONSULTATION**

#### PAINLESS SWELLING

- Solid testicular swelling is felt

#### TESTICULAR TUMOR

#### CONFIRM BY

- Scrotal USG
- Serum tumor markers

**REFER ALL CASES FOR EXPERT CONSULTATION**

### INVESTIGATIONS

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

### HOW TO TREAT COMMON CONDITIONS?

#### PARIETAL SWELLINGS

##### FURUNCLE/ABSCESS PHC/CHC level

- Broad Spectrum Antibiotic Amoxy + Clavulanic acid
- Consider drainage if fluctuations+ or impending rupture

**District Hospital**

- If abscess appears part of underlying disease
- Nonresponders
- Immunocompromised patient



##### FILARIAR ELEPHANTIASIS PHC/CHC level

- DEC 100 mg TDS x 20 days
- Doxycycline 100 mg BD x 20 days
- Scrotal Elevation/support

**District Hospital**

- Non responders

- Huge size



##### AC. EPIDIDYMO-ORCHITIS PHC/CHC level

- If patient had a urinary tract instrumentation or dysuria - suspect bacterial type, treat by - antibiotic and support
- If no response in 48 hrs
- Treat all other cases as filarial by - DEC 100 mg x TDS x 20 days and doxycycline 100 mg x BD x 20 days
- Give anti inflammatory drugs to all

**District Hospital**

##### HYDROCELE PHC/CHC level

- Small size - no treatment
- Aspiration can be performed under aseptic precautions in select cases

**District Hospital**

- Moderate to large -Do hydrocelectomy

**Tertiary Center**

- If not trained to do the surgery

##### INTRASCROTAL SWELLINGS

##### CHRONIC EPIDIDYMO-ORCHITIS PHC/CHC level

- Mostly filarial in origin but -
- 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

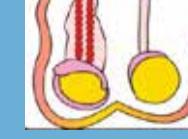
**District Hospital**

- No response to treatment
- Epididymal abscess or local sinus discharging syrup like pus



##### VARICOCELE PHC/CHC level

- Counsel for semen analysis (2-3 times)
- If 'discrepancy in size of testis' and/or 'abnormal semen parameters present' and /or persistent pain & swelling
- Rest all cases be given symptomatic treatment



### REFERENCES

1. O'Connell P R, McCaskie A W, Sayers R D (eds). Bailey & Love's Short Practice of Surgery. 28th ed. Boca Raton: CRC Press (Taylor & Francis Group); 2023. ISBN: 978-0-367-54811-7.
2. Gossage J.A., Bultitude M.F., Corbett S.A. (Eds). Browne's Introduction to the Symptoms & Signs of Surgical Disease. 6th ed. London / New York: CRC Press (Taylor & Francis); 2021. ISBN

### ABBREVIATIONS

DEC: Diethyl Carbamazine Citrate

**KEEP A HIGH THRESHOLD FOR INVASIVE TESTS AND PROCEDURES**