

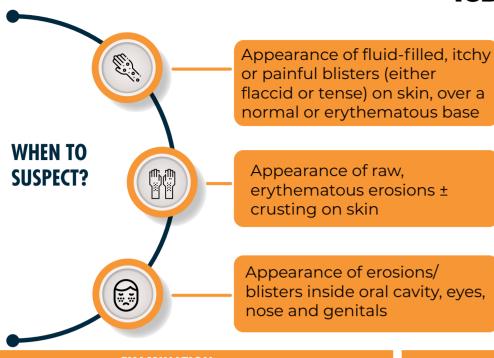
Department of Health Research Ministry of Health and Family Welfare, Government of India



# **Standard Treatment Workflow (STW)**

# **IMMUNOBULLOUS DERMATOSES**

### ICD-10-L13.8



#### **AUTOIMMUNE BLISTERING DISEASES**

- · Pemphigus vulgaris/ variants
- · Pemphigus foliaceus/ variants
- · Bullous pemphigoid
- Pemphigoid gestationis
- · Mucous membrane pemphigoid
- · Linear IgA bullous diseases/ chronic bullous disease of childhood
- · Dermatitis herpetiformis
- · Epidermolysis bullosa acquisita
- · Bullous systemic lupus erythematosus

#### **ADDITIONAL INFORMATION**

- · Age at onset and duration of blistering
- · History of any recent drug intake
- History of prior varicella/ chicken pox
- History of similar illness in family
- · History of itching, pain, burning
- Predominant sites affected
- Associated photosensitivity

#### **EXAMINATION**

- · Are the blisters flaccid or tense?
- · Are the erosions crusted?
- · Do the blisters contain clear or hemorrhagic fluid?
- · Are the blisters umbilicated?
- · Is the base of the blisters erythematous/ urticarial?
- · Are the blisters healing with or without scarring?
- · Are they healing leaving behind hyper/hypopigmentation?
- · What is the color of the crust?
- · Are mucosae involved?

#### **DIAGNOSIS OF AUTOIMMUNE BULLOUS DISEASES**

#### Likely pemphigus group of autoimmune bullous diseases

- Flaccid blisters/ erosions ± crusting on skin ± mucosae
- Usually seen in adults; can rarely affect children
- Likely sub-epidermal autoimmune bullous diseases
  - Tense, small to large blisters, containing clear or hemorrhagic fluid, on an itchy erythematous base, commonly healing with hypopigmentation ± scarring
  - Seen in children, adults and elderly (most common is bullous pemphigoid)
  - · Get a Tzanck smear
  - · Get a biopsy for histopathology from margin of a lesion
  - · Get a peri-lesional biopsy for direct immunofluorescence, if facility is available











involvement

blisters

· Child < 5 years



**CHRONIC BULLOUS DISEASE OF CHILDHOOD** 

# **RED FLAG SIGNS**

- · Fever ± chills and rigors Hypotension (indicating hypovolemia due to fluid loss or sepsis)
- · Altered sensorium (indicating dyselectrolytemia or sepsis)

# **DIFFERENTIAL DIAGNOSES**

**BULLOUS PEMPHIGOID** 

- · Bullous Impetigo, Varicella, Stevens Johnson Syndrome/TEN\*
- · Epidermolysis bullosa, a hereditary blistering disease with onset in neonatal period or infancy and predominantly affecting pressure sites; presence of scarring on limbs, acral areas, trunk and abnormality of the teeth or nails
- · Consider Congenital syphilis in a neonate- get VDRL for mother and child
- \*Refer to STW on Bacterial Infections; Varicella and Herpes Zoster and cADR Part B

# · Maintain oral hygiene (if involved)

lesions



· Brush teeth with pediatric brush with small head and soft bristles

permanganate compresses on localized lesions/thick crusted

# **GENERAL MEASURES**

- · Monitor temperature, respiratory rate, pulse rate
- · Administer antibiotics if lesions are infected and foul smelling
- · Fluid-electrolytes balance
- · Get hemogram, basic biochemistry including renal and hepatic function tests, blood sugar
- · Get pus culture and if sepsis is suspected, also blood culture
- · Supportive management
  - · Clean non-adherent dressings

Azathioprine (2-3 mg/kg/day)

· Cyclophosphamide (1-2 mg/kg/day)

Mucocutaneous with body surface area >5%

and refer to a specialist/tertiary level

Methotrexate (0.3mg/kg/week)

→ Dapsone (100-150 mg/day)

- · Maintain hygiene with normal soap bath
- Topical antibiotics

following

dose)

Rituximab

· Aspiration of large blisters with 18G needle if needed

PEMPHIGUS (START TREATMENT ONLY IF FACILITY FOR MONITORING AND

MANAGEMENT OF COMPLICATIONS OF TREATMENT IS AVAILABLE)

Mucosal/ mucocutaneous with body surface area <5%</li>

· Avoid deroofing the blisters as the roof of the blister acts as a natural dressing

· Oral Prednisolone (0.5 mg/kg/day), with one or more of the

Mycophenolate mofetil (35mg/kg/day, start at a lower

· At primary level-Stabilize patient, initiate general measures

comorbidities · Liquid/ semisolid diet for oral erosions

2% savlon scalp wash

· Chlorhexidine mouth wash

· Maintain skin hygiene (if involved)

· Avoiding eroding gingival margin

· Emollients/ coconut oil application

## BULLOUS PEMPHIGOID (START TREATMENT ONLY IF FACILITY FOR MONITORING AND MANAGEMENT OF COMPLICATIONS OF TREATMENT IS AVAILABLE)

Diluted potassium permanganate bath/ potassium

· Encourage oral intake (fluids and calories); consider other

# Limited (<10% body surface area)</li>

- · Start treatment and refer to tertiary level
- Topical Clobetasol propionate (upto 30 gm/day)
- · Oral Prednisolone (0.5 mg/kg/day) ±
  - Dapsone (100-150 mg/day)
  - Doxycycline (100-200 mg/day)
  - · Niacinamide (500 mg thrice/day)
  - · Azathioprine (2-3 mg/kg/day, start at a lower dose)
  - Mycophenolate mofetil (35mg/kg/day, start at a lower dose)

Niacinamide

Methotrexate

- Methotrexate (0.3mg/kg/week) Extensive (>10% body surface area)
- · To be managed at a tertiary level
- · Oral Prednisolone (0.75-1 mg/kg/day) ±
  - Dapsone Doxycycline Azathioprine Mycophenolate mofetil
- · To be managed at a tertiary level Dexamethasone- Cyclophosphamide pulse therapy
  - CORRECT DIAGNOSIS; PREVENTION/ TREATMENT OF SEPSIS; AND REGULARITY OF TREATMENT BRINGS BEST RESULTS