

STANDARD TREATMENT WORKFLOW (STW)

Immunobullous Dermatoses

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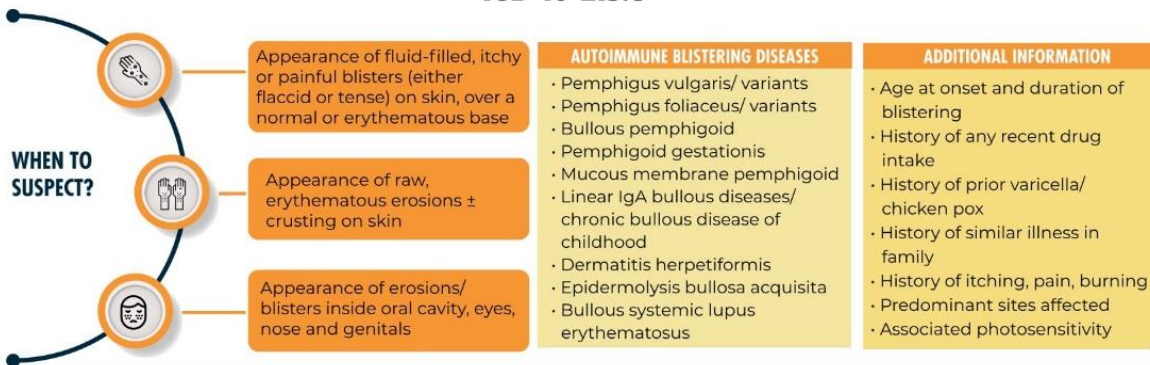


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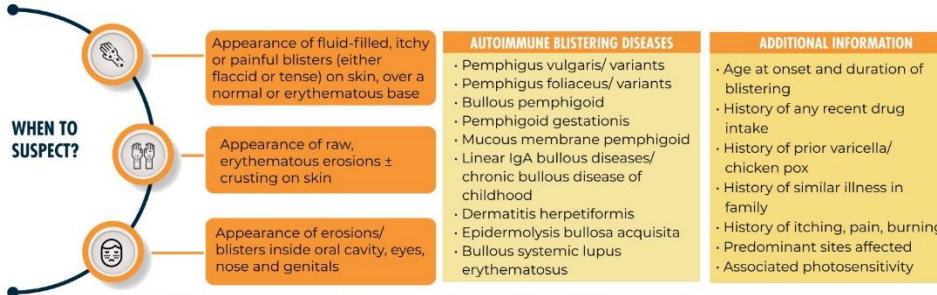
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Standard Treatment Workflow (STW) IMMUNOBULLOUS DERMATOSES ICD-10-L13.8



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EXAMINATION	DIAGNOSIS OF AUTOIMMUNE BULLOUS DISEASES
<ul style="list-style-type: none"> • 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? 	<ul style="list-style-type: none"> • Likely pemphigus group of autoimmune bullous diseases <ul style="list-style-type: none"> • Flaccid blisters/ erosions ± crusting on skin ± mucosae • Usually seen in adults; can rarely affect children • Likely sub-epidermal autoimmune bullous diseases <ul style="list-style-type: none"> • 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) <p>• 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</p>



PEMPHIGUS



BULLOUS PEMPHIGOID



CHRONIC BULLOUS DISEASE OF CHILDHOOD



- Child < 5 years
- Erosions with peripheral tense blisters
- Urticarial base
- Face/ peri-genital involvement

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 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



EPIDERMOLYSIS BULLOSA

GENERAL MEASURES	
<ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Clean non-adherent dressings • Maintain hygiene with normal soap bath • Topical antibiotics • Aspiration of large blisters with 18G needle if needed • Avoid deroofing the blisters as the roof of the blister acts as a natural dressing 	<ul style="list-style-type: none"> • Maintain oral hygiene (if involved) <ul style="list-style-type: none"> • Chlorhexidine mouth wash • Brush teeth with pediatric brush with small head and soft bristles • Avoiding eroding gingival margin • Maintain skin hygiene (if involved) <ul style="list-style-type: none"> • Diluted potassium permanganate bath/ potassium permanganate compresses on localized lesions/ thick crusted lesions • Emollients/ coconut oil application • 2% savlon scalp wash • Encourage oral intake (fluids and calories); consider other comorbidities • Liquid/ semisolid diet for oral erosions
<p>PEMPHIGUS (START TREATMENT ONLY IF FACILITY FOR MONITORING AND MANAGEMENT OF COMPLICATIONS OF TREATMENT IS AVAILABLE)</p> <ul style="list-style-type: none"> • Mucosal/ mucocutaneous with body surface area <5% <ul style="list-style-type: none"> • Oral Prednisolone (0.5 mg/kg/day), with one or more of the following <ul style="list-style-type: none"> • Azathioprine (2-3 mg/kg/day) • Mycophenolate mofetil (35mg/kg/day, start at a lower dose) • Cyclophosphamide (1-2 mg/kg/day) • Methotrexate (0.3mg/kg/week) • Dapsone (100-150 mg/day) • Mucocutaneous with body surface area >5% <ul style="list-style-type: none"> • At primary level-Stabilize patient, initiate general measures and refer to a specialist/ tertiary level • To be managed at a tertiary level <ul style="list-style-type: none"> • Dexamethasone- Cyclophosphamide pulse therapy • Rituximab 	<p>BULLOUS PEMPHIGOID (START TREATMENT ONLY IF FACILITY FOR MONITORING AND MANAGEMENT OF COMPLICATIONS OF TREATMENT IS AVAILABLE)</p> <ul style="list-style-type: none"> • Limited (<10% body surface area) <ul style="list-style-type: none"> • Start treatment and refer to tertiary level • Topical Clobetasol propionate (upto 30 gm/day) • Oral Prednisolone (0.5 mg/kg/day) ± <ul style="list-style-type: none"> • 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) • Methotrexate (0.3mg/kg/week) • Extensive (>10% body surface area) <ul style="list-style-type: none"> • To be managed at a tertiary level • Oral Prednisolone (0.75- 1 mg/kg/day) ± <ul style="list-style-type: none"> • Dapsone • Doxycycline • Azathioprine • Mycophenolate mofetil • Niacinamide • Methotrexate

✓ CORRECT DIAGNOSIS; PREVENTION / TREATMENT OF SEPSIS; AND REGULARITY OF TREATMENT BRINGS BEST RESULTS

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