

STANDARD TREATMENT WORKFLOW (STW)

Immunobullous Dermatoses

Binod K Khaitan¹, Deepika Pandhi², Ananta Khurana³, Dipankar De⁴, Rahul Mahajan⁵, Renu George⁶, Vishal Gupta⁷

¹All India Institute of Medical Sciences, New Delhi; ²University College of Medical Sciences, New Delhi; ³Dr. Ram Manohar Lohia Hospital, New Delhi; ⁴Postgraduate Institute of Medical Education and Research, Chandigarh; ⁵Postgraduate Institute of Medical Education and Research, Chandigarh; ⁶ Christian Medical College, Vellore; ⁷All India Institute of Medical Sciences, New Delhi

CORRESPONDING AUTHOR

Dr Binod K Khaitan, Department of Dermatology, All India Institute of Medical Sciences, New Delhi
Email: binodkhaitan@hotmail.com

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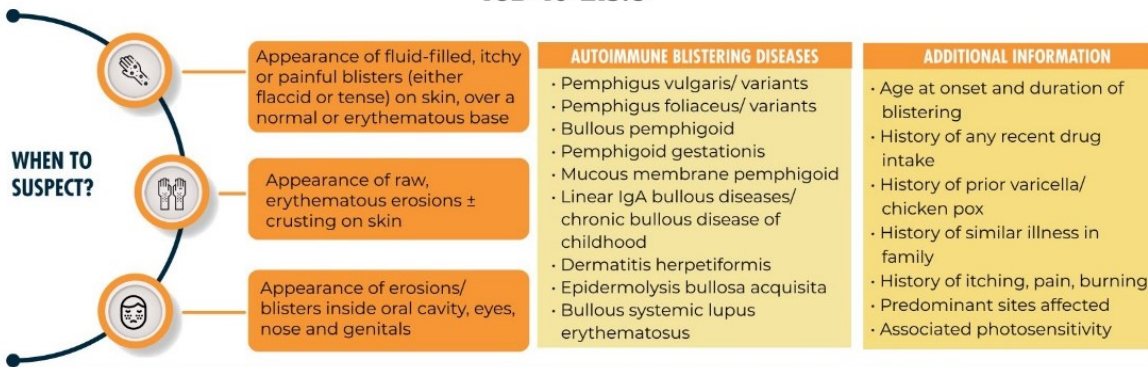


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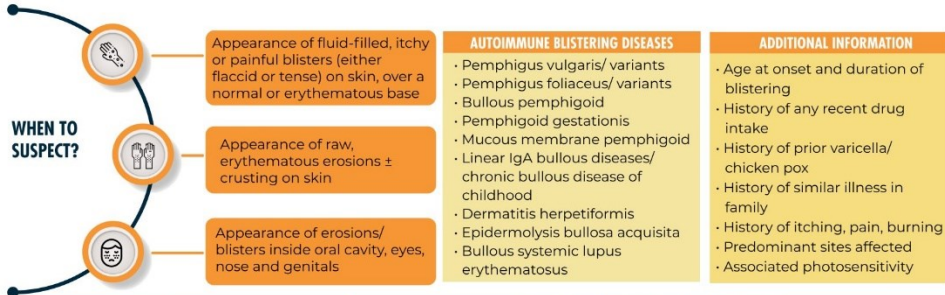
Standard Treatment Workflow (STW) IMMUNOBULLOUS DERMATOSES ICD-10-L13.8



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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) <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <ul style="list-style-type: none"> 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 </div>



RED FLAG SIGNS	DIFFERENTIAL DIAGNOSES
<ul style="list-style-type: none"> Fever ± chills and rigors Hypotension (indicating hypovolemia due to fluid loss or sepsis) Altered sensorium (indicating dyselectrolytemia or sepsis) 	<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Oral Prednisolone (0.75- 1 mg/kg/day) ± <ul style="list-style-type: none"> Dapsone Azathioprine Doxycycline Mycophenolate mofetil Niacinamide Methotrexate

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

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