TABLE 24-1 DISEASES ASSOCIATED WITH FEVER AND RASH (*CONTINUED*)

Disease	Etiology	Description	Group Affected/ Epidemiologic Factors	Clinical Syndrome	Chapter
Confluent Desquamative Erythemas (*Continued*)					
Staphylococcal scalded-skin syndrome	*S. aureus*, phage group II	Diffuse tender erythema, often with bullae and desquamation; Nikolsky's sign	Colonization with toxin-producing *S. aureus*; occurs in children <10 years old (termed *Ritter's disease* in neonates) or adults with renal dysfunction	Irritability; nasal or conjunctival secretions	172
Exfoliative erythroderma syndrome	Underlying psoriasis, eczema, drug eruption, mycosis fungoides	Diffuse erythema (often scaling) interspersed with lesions of underlying condition	Usually occurs in adults over age 50; more common among men	Fever, chills (i.e., difficulty with thermoregulation); lymphadenopathy	72, 74
DRESS (DIHS)	Aromatic anticonvulsants; other drugs, including sulfonamides, minocycline	Maculopapular eruption (mimicking exanthematous drug rash), sometimes progressing to exfoliative erythroderma; profound edema, especially facial; pustules may occur	Individuals genetically unable to detoxify arene oxides (anticonvulsants), patients with slow *N*-acetylating capacity (sulfonamides)	Lymphadenopathy, multiorgan failure (especially hepatic), eosinophilia, atypical lymphocytes; mimics sepsis	74
Stevens-Johnson syndrome (SJS), toxic epidermal necrolysis (TEN)	Drugs (80% of cases; often allopurinol, anticonvulsants, antibiotics), infection, idiopathic	Erythematous and purpuric macules, sometimes targetoid, or diffuse erythema progressing to bullae, with sloughing and necrosis of entire epidermis; Nikolsky's sign; involves mucosal surfaces; TEN (>30% epidermal necrosis) is maximal form; SJS involves <10% of epidermis; SJS/TEN overlap involves 10–30% of epidermis	Uncommon among children; more common among patients with HIV infection, SLE, certain HLA types, or slow acetylators	Dehydration, sepsis sometimes resulting from lack of normal skin integrity; mortality rates up to 30%	74
Vesiculobullous or Pustular Eruptions					
Hand-foot-and-mouth syndrome[a]; staphylococcal scalded-skin syndrome; TEN[b]; DRESS[b]	—	—	—	—	—[f]
Varicella (chickenpox)	VZV	Macules (2–3 mm) evolving into papules, then vesicles (sometimes umbilicated), on an erythematous base ("dewdrops on a rose petal"); pustules then forming and crusting; lesions appearing in crops; may involve scalp, mouth; intensely pruritic	Usually affects children; 10% of adults susceptible; most common in late winter and spring; incidence down by 90% in U.S. as a result of varicella vaccination	Malaise; generally mild disease in healthy children; more severe disease with complications in adults and immunocompromised children	217
Pseudomonas "hot-tub" folliculitis	*Pseudomonas aeruginosa*	Pruritic erythematous follicular, papular, vesicular, or pustular lesions that may involve axillae, buttocks, abdomen, and especially areas occluded by bathing suits; can manifest as tender isolated nodules on palmar or plantar surfaces (the latter designated "*Pseudomonas* hot-foot syndrome")	Bathers in hot tubs or swimming pools; occurs in outbreaks	Earache, sore eyes and/or throat; fever may be absent; generally self-limited	189
Variola (smallpox)	Variola major virus	Red macules on tongue and palate evolving to papules and vesicles; skin macules evolving to papules, then vesicles, then pustules over 1 week, with subsequent lesion crusting; lesions initially appearing on face and spreading centrifugally from trunk to extremities; differs from varicella in that (1) skin lesions in any given area are at same stage of development and (2) there is a prominent distribution of lesions on face and extremities (including palms, soles)	Nonimmune individuals exposed to smallpox	Prodrome of fever, headache, backache, myalgias; vomiting in 50% of cases	261e
Primary herpes simplex virus (HSV) infection	HSV	Erythema rapidly followed by hallmark painful *grouped vesicles* that may evolve into pustules that ulcerate, especially on mucosal surfaces; lesions at site of inoculation: commonly gingivostomatitis for HSV-1 and genital lesions for HSV-2; recurrent disease milder (e.g., herpes labialis does not involve oral mucosa)	Primary infection most common among children and young adults for HSV-1 and among sexually active young adults for HSV-2; no fever in recurrent infection	Regional lymphadenopathy	216

(*Continued*)