

2.3.5 Porphyria cutanea tarda

Definition Metabolic disorder with disturbed hemoglobin synthesis and accumulation of photo-toxic metabolites (porphyrins)

Clinic Increase photosensitivity with dense blisters, milia and scars in sun-exposed areas, especially backs of hands

Histopathology

- *Subepidermal blister with little inflammation*
- *Retained dermal papillae which extend into blister lumen (festooning, naked papillae)*
- Deposits of eosinophilic PAS-positive material around small vessels in superficial dermis
- Apoptotic keratinocytes. Accumulations of degenerated basement membrane type IV collagen in the spinous layer (caterpillar bodies)

Additional studies

DIF: IgG (rarely IgM and C3) are trapped at DEJ and around papillary dermal vessels. Type VII collagen at base of blister, type IV on roof. Diagnosis confirmed by elevated urine porphyrins, blood examinations, genetic and enzymatic studies

Differential diagnoses

■ Bullous pemphigoid and epidermolysis bullosa acquisita

Broad-based subepidermal blister. Usually infiltrate with eosinophils in bullous pemphigoid, but cell-poor types exist. EBA can be histologically identical to PCT and only be separated with biochemical studies. DIF: Deposits of IgG and C3 at DEJ

■ Epidermolysis bullosa

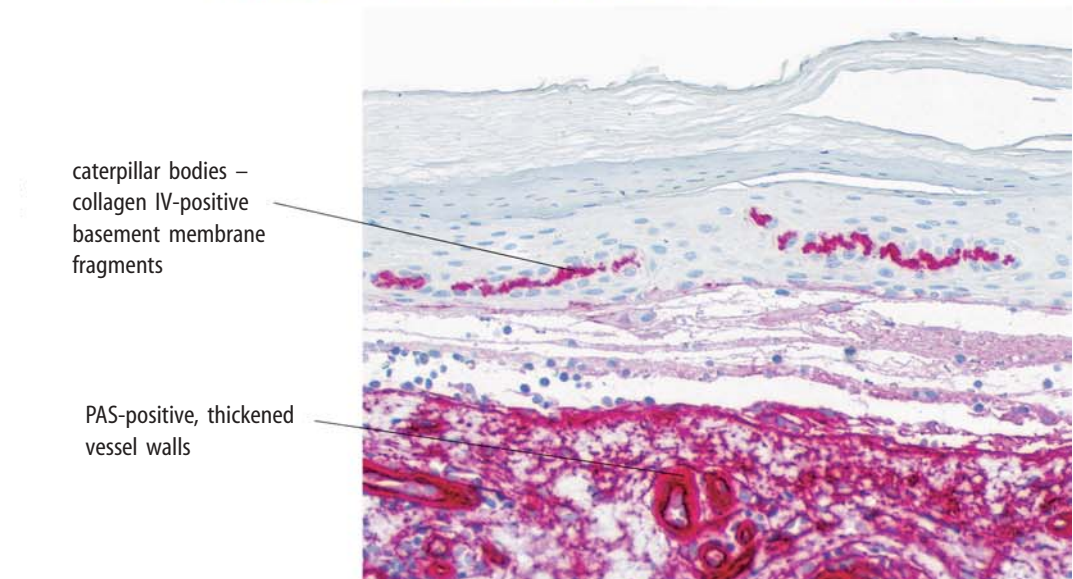
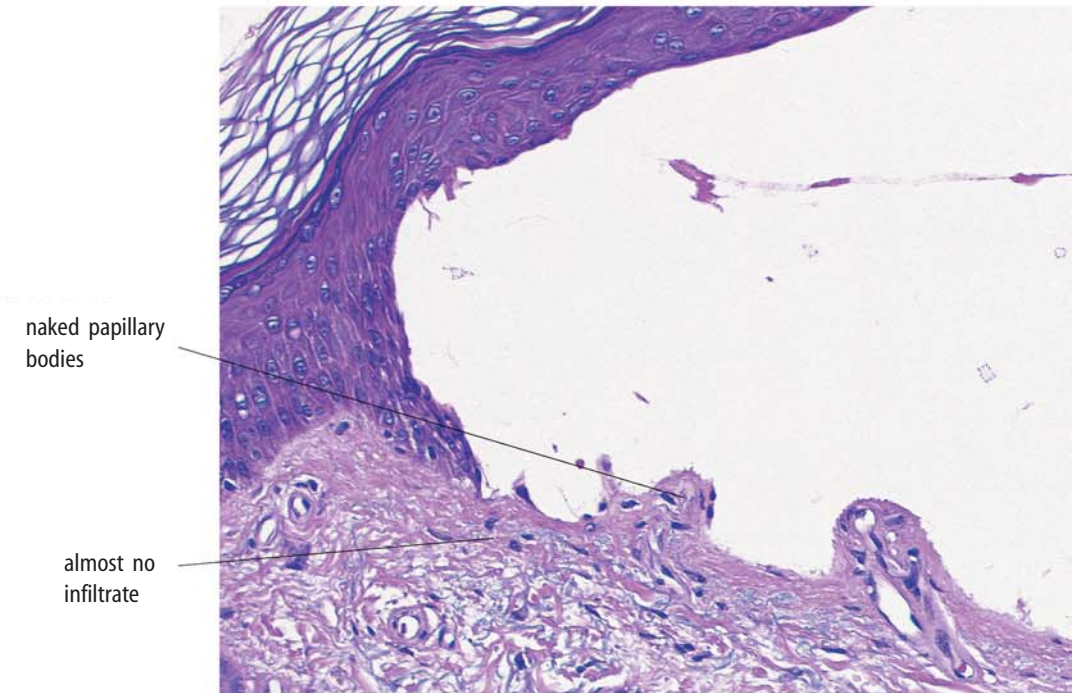
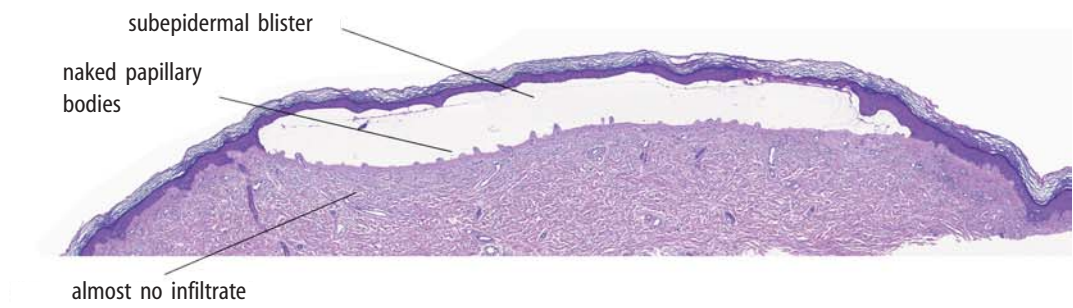
Congenital mechanobullous disorder with many forms. EB simplex forms have degeneration in basal layer and blisters but no scarring. Junctional and dystrophic forms have subepidermal blisters. Blisters usually with minimal infiltrate; often scarring. IF examination negative

■ Bullous disease of diabetes

Subepidermal blister with little infiltrate. No apoptotic epidermal keratinocytes

Comments

Erythropoietic protoporphyria (EPP) features marked photosensitivity early in life and distinctive facial scarring. Biopsy reveals more massive deposits of eosinophilic PAS-positive material in dermal papillae and around dermal vessels



Dermatopathology

Kempf, W.; Hantschke, M.; Kutzner, H.; Burgdorf, W.H.C.

2008, XIV, 299 p., Hardcover

ISBN: 978-3-7985-1839-1