Hydrochlorothiazide Induced Vasculitis Rachael Hauser M.D.; Elisha Brumfield D.O.

Introduction

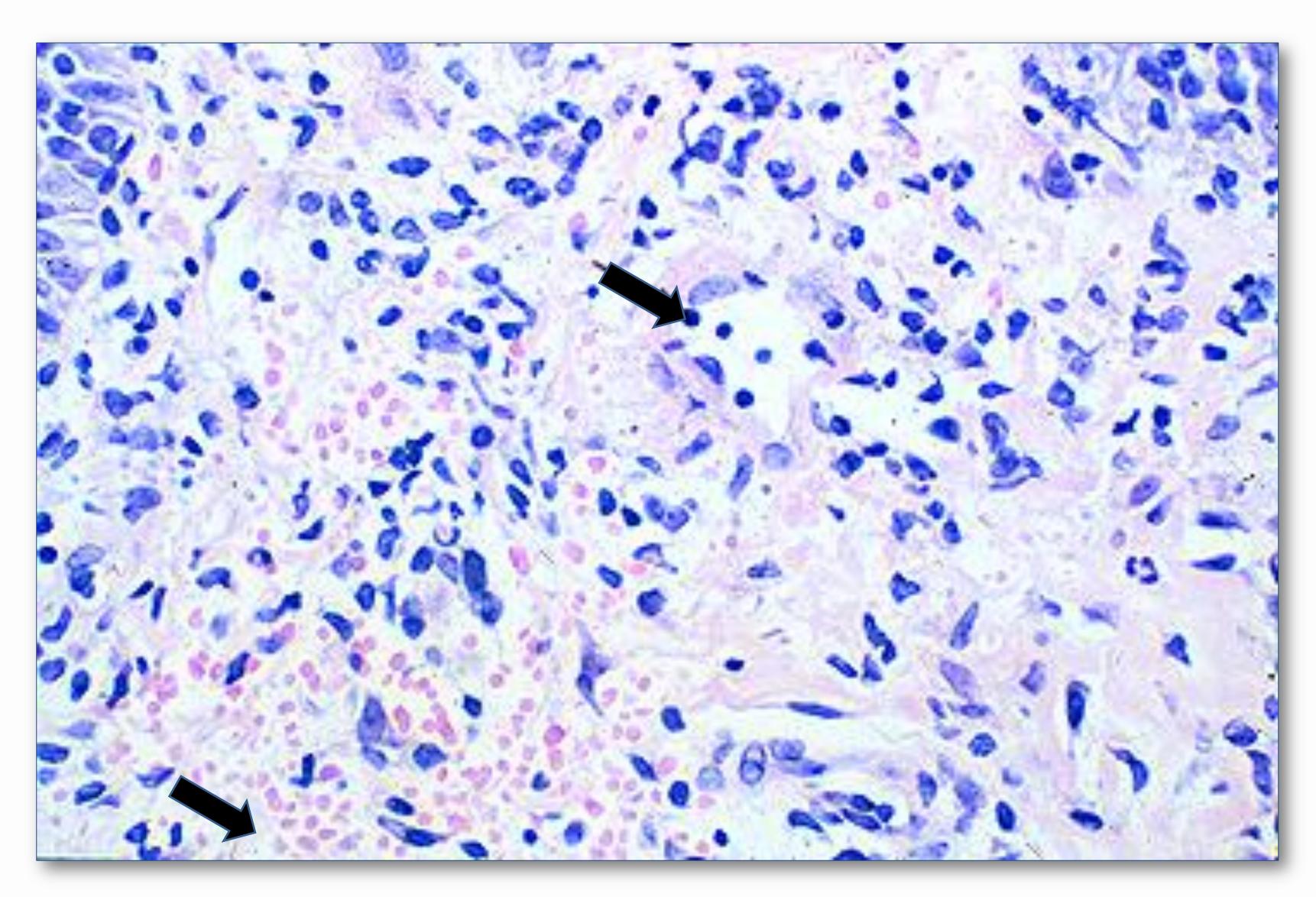
- Cutaneous leukocytoclastic angiitis, or hypersensitivity vasculitis, can result from treatment by many commonly prescribed medications
- Patients present with various manifestations, which may delay diagnosis and appropriate treatment

Case Presentation

- History: 34 year-old previously healthy Hispanic female was transferred from an outlying hospital for concerns of progressive rash of two weeks duration with lower extremity edema, severe pruritus, arthralgia, abdominal pain
- Past medical history: newly diagnosed with hypertension, treated with Hydrochlorothiazide for one month
- Laboratory: UA, CBC, ANCA, ESR, Complement, RAF, ANA Panel, Cryoglobulin,
- HIV, Hepatitis studies were normal Cutaneous Biopsy: Inflammatory infiltration of lymphocytes and neutrophils, extravasation of erythrocytes, fibrin deposition in the walls of the small blood vessels with no evidence of IgA antibodies by direct immunofluorescence
- Treatment: discontinued Hydrochlorothiazide, began high dose IV steroid therapy with transition to oral taper
- Follow up: patient revealed prolonged recovery with continued hyperpigmented lesions and peripheral neuropathy



Palpable Purpura with Hemorrhagic Bullae



Punch Biopsy: Extravasation of lymphocytes and erythrocytes.

References

- vasculitis. Arthritis Rheum 1990;33(8):1108-13.
- 1996;8(1):34-40.

- fever
- to offending agent
- Diagnostic Criteria²

• Hypersensitivity vasculitis is a clinical syndrome due to immune complex deposition in capillaries, venules, and arterioles¹ • Clinical symptoms are most commonly palpable purpura, but also includes arthralgia, myalgia, Latent period typically 7-10 days after exposure \circ Age > 16 • Offending agent Palpable purpura Maculopapular rash Biopsy with neutrophils around arterioles/venules Common insulting medications include penicillin, cephalosporins, loop diuretics, and thiazide These agents function as a hapten to stimulate an Infections such as hepatitis and HIV have also Although an infrequent adverse reaction to a regularly prescribed medication, providers

- diuretics
- immune response³
- been associated
- long term sequelae

1. Tosca N, Stratigos JD. Possible pathogenetic mechanisms in allergic cutaneous vasculitis. Int J Dermatol 1988;27(5):291-6.

2. Calabrese LH, Michel BA, Bloch DA, et al. The American College of Rheumatology 1990 criteria for the classification of hypersensitivity

3. Calabrese LH, Duna GF. Drug-induced vasculitis. Curr Opin Rheumatol

Discussion

must be aware of this risk to provide appropriate treatment and prevent

