

Non-Infectious Granulomas

Paul K. Shitabata, M.D.

Director of Dermatopathology

Harbor-UCLA Dermatology

Non-caseating sarcoidal granulomas may be seen in all except:

- Tattoo reaction
- Berylliosis
- Miescher-Melkersson-Rosenthal syndrome
- Zirconium granuloma
- Churg-Strauss syndrome

Answer

- Churg-Strauss syndrome

The classic histopathology is a palisading necrobiotic granuloma with eosinophils and eosinophilia.

Pertinent histopathological differential diagnostic considerations with granuloma annulare and its histopathological variants include:

- Mycosis fungoides
- Arthropod bite
- Granuloma faciale
- Annular elastolytic giant-cell granuloma
- Epithelioid sarcoma

Answer

- Granuloma faciale

Despite the name, there is nothing granulomatous about the inflammatory infiltrate. There are increasing reports of mycosis fungoides occurring in GA-like lesions. All of the cases showed characteristic atypical intraepithelial lymphocytes.

Which disease exhibits necrobiosis on histopathologic sections?

- Granuloma annulare
- Palisaded neutrophilic and granulomatous dermatitis
- Sarcoidosis
- Bovine collagen implant
- Cheilitis glandularis

May have more than one answer

Answers

- Granuloma annulare
- Palisaded neutrophilic and granulomatous dermatitis

Sarcoidosis has an extremely rare variant exhibiting necrobiotic granulomas.

Helpful adjuvant studies to confirm the histopathologic diagnosis of sarcoidosis include all except:

- Polarization
- Fite stain
- Elastic stain
- PAS stain
- Methenamine silver stain

Answer

- Elastic stain

Although an elastic stain may reveal engulfed elastic fibers within the giant cells and epithelioid histiocytes, it is not critical in the exclusion of other diseases that may mimic sarcoidosis.

“Swiss cheese granulomas” may be seen in which diseases?

- Talc granuloma
- Sea-urchin granuloma
- Silicone granuloma
- Zirconium granuloma
- Paraffinoma

May have more than one answer

Answers

- Silicone granuloma
- Paraffinoma