

Inflammatory Diseases of the Subcutaneous Fat

Paul K. Shitabata, M.D.
Director of Dermatopathology
Harbor-UCLA Dermatology

Histopathologic Comparisons

Histopathology	Sclerema neonatorum	Subcutaneous Fat Necrosis of the Newborn
Necrosis		
Needle-like clefts		
Calcifications		

Answers

Histopathology	Sclerema neonatorum	Subcutaneous Fat Necrosis of the Newborn
Necrosis	-	+
Needle-like clefts	+	+
Calcifications	-	+

Pertinent histopathologic differential diagnostic considerations for Histiocytic Cytophagic Panniculitis include all except:

- Viral associated hemophagocytic syndrome
- Alpha-1-antitrypsin deficiency
- Erythema induratum
- Malignant histiocytosis
- Subcutaneous T-cell lymphoma

Answers

- Erythema induratum

Subcutaneous T-cell lymphoma is considered one end of the spectrum of this disease.

Vasculitis may be seen in which diseases?

- Erythema nodosum
- Subcutaneous T-cell lymphoma
- Pancreatic fat necrosis
- Erythema induratum
- Alpha-1-Antitrypsin deficiency

Answers

- Erythema nodosum (rare)
- Erythema induratum

A granulomatous panniculitis may be seen in which diseases?

- Calciphylaxis
- Lipodermatosclerosis
- Rheumatoid arthritis
- Lupus profundus
- Polyarteritis nodosa

Answer

- Rheumatoid arthritis

Pertinent histopathologic differential diagnostic considerations for erythema nodosum include:

- Behcet's syndrome
- Crohn's disease
- Alpha-1-antitrypsin deficiency
- Erythema induratum
- Lupus panniculitis

Answers

- Behcet's syndrome
- Crohn's disease
- Erythema induratum

Correct associations with lupus panniculitis include:

- Partial genetic deficiency of C3
- Fibrin deposition by DIF in the panniculus
- Intense neutrophilic panniculitis
- Lymphoid aggregates with germinal centers
- Positive DIF in dermal-epidermal junction

Answers

- Fibrin deposition by DIF in the panniculus
- Lymphoid aggregates with germinal centers
- Positive DIF in dermal-epidermal junction

Partial deficiencies of C2 and C4 have been reported.

Pertinent histopathological differential diagnostic considerations for erythema induratum include:

- Eosinophilic fasciitis
- Tuberculosis
- Lipodystrophy
- Polyarteritis nodosa
- Crohn's disease

Answers

- Tuberculosis
- Polyarteritis nodosa