Disorders Associated with Physical Agents: Heat, Cold, Radiation, and Trauma

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

Characteristic histopathologic changes associated with cryotherapy include all except:

Loss of parakeratosis
Loss of melanocytes
Subepidermal bulla
Hemorrhage
Thrombosis

## Answer

Loss of parakeratosis

The stratum corneum is devitalized and thus parakeratosis will be perserved.

Pertinent histopathologic diagnostic considerations for perniosis include all except:
 Cutaneous T-cell lymphoma

- Lupus erythematosus
- Neutrophilic eccrine hidradenitis
- Erythema multiforme
- Polymorphous light eruption

## Answer

## Neutrophilic eccrine hidradenitis

While both lesions occur on acral skin, this latter condition usually lacks epidermal changes and is associated with extensive neutrophilic infiltration of the eccrine ducts.

Histopathologic findings of erythema ab igne include all except: Dermal melanophages Epidermal atrophy Decreased dermal elastic fibers Increased ground substance Mild vascular ectasia

## Answer

Decreased dermal elastic fibers

The hallmark is increased dermal elastic fibers, confirmed by elastic stains.