

Dermatopathology Differential Diagnosis Boxcar (Square Biopsy) Sign

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Disease	Differentiating Traits
Pretibial myxedema	Acellular with collagen separated by mucin Mucin may start deep and later extend upward
Morphea/scleroderma	Thick, deep pink collagen Lymphoplasmacytic infiltrate No histiocytes or giant cells
Necrobiosis lipoidica	Altered collagen without palisading cells No normal collagen Horizontal palisading sandwiches Plasma cells
Scleredema	Nml biopsy with clefts between collagen, confirm with mucin stains
Scleromyxedema/Papular mucinosis	More cellular and more mucin