DERMAL ARCHITECTURE UNDER THE MICROSCOPE

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Tensile properties of skin are one major clinical criterion to recognize connective tissue disorders. There is a strong interdependence between tensile variables and the dermal microanatomy.


Connective tissue naevi represent models for understanding and classifying genetic and acquired connective tissue disorders at the microscopic level. Histochemical stains are mandatory to get an overall information about most of the connective tissue abnormalities.

- Piérard GE. Sirius red polarization method is useful to visualize the organization of connective tissues but not the molecular composition of their fibrous polymers. Matrix Coll Rel Res 9, 69-72, 1989.

Ehlers-Danlos syndromes are characterized by prominent and typical alterations in the organization of the fibre networks in the dermis including collagen bundles and elastic fibres. In addition, the size and shape of collagen fibrils are altered.


The current classification of Ehlers-Danlos syndromes disregards morphological alterations and thus may blur unrelated conditions.


The role of dermal dendrocytes is probably underrecognized in the control of the extracellular matrix structure.


