



McClain Laboratories, LLC
45 Manor Road, Smithtown, NY 11787
Phone: (631) 361-4000 Fax: (631) 361-4037
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Dermatopathology Report

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Patient, Sample

Referring Physician

John ABC, MD

100 Main Street

Any Town, NY 01111

Voice: 123 111 1111 FAX: 123 111 1234

Primary Physician

Sally Doctor, MD

21-Apr-08

22-Apr-08

Site A: Skin, Right Calf

Punch biopsy; 3x3x4 mm; Formalin Fixative; 1 block(s)

(ICD9: 337.0)

Clinical Impression: R/O Small Fiber Neuropathy

940SFNP-DI
CT

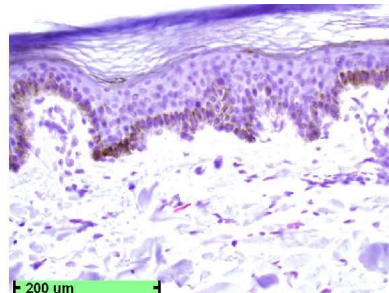
Microscopic: On pan-axonal stain PGP9.5, there are markedly decreased numbers of intra-epidermal axons and Merkel cells. In the papillary dermis, the few axons present are beaded and clumped. The deeper dermal, peri-ecrine and perifollicular nerve components appear normal. Congo Red stain fails to reveal deposits of amyloid.

DIAGNOSIS: **SMALL FIBER NEUROPATHY**

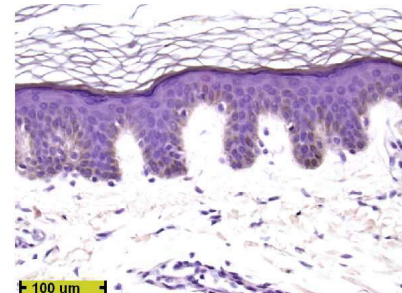
Note: The morphometric technique used was modified from McArthur et al. Epidermal Nerve Fiber Density Arch Neurol Vol 55: 1513-1520 (Dec 1998). Specifically, we measured the numbers of intra-epidermal axons, (leg 0.1 vs. thigh 1/mm- both decreased), intra-epidermal Merkel cell bodies (0.1/mm vs. 1.3/mm- both decreased). The loss of axon number, diminution in branching, diminution in Merkel cell number, and the clumped and beaded appearance to the epidermal and papillary dermal axons are all features of small fiber neuropathy. However, the thigh is also decreased suggesting to me the possibility of a metabolic disease, e.g., diabetes mellitus.



GROSS SPECIMEN IMAGE



D5256-08 A 1L3 Special Stain PGP9.5H (17X)



D5256-08 A 1L2 Special Stain CONGO RED (20X)



Site B: Skin, Right Thigh

Punch biopsy; 4x2x3 mm; Formalin Fixative; 1 block(s)

(ICD9: 337.0)

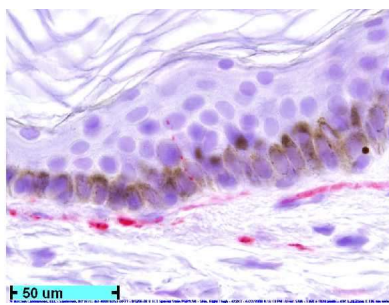
Clinical Impression: Not specified

940SFNP-DI
CT

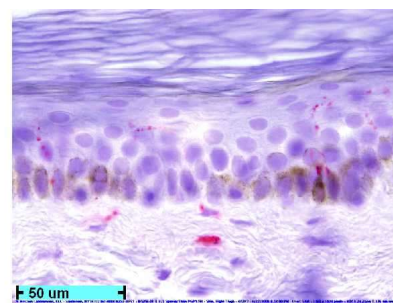
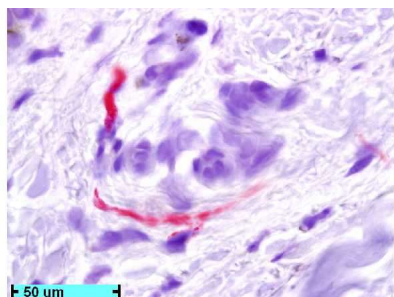
Microscopic: On pan-axonal stain PGP9.5, there are markedly decreased numbers of intra-epidermal axons and Merkel cells. In the papillary dermis, the few axons present are beaded and clumped. The deeper dermal, peri-ecrine and perifollicular nerve components appear normal. Congo Red stain fails to reveal deposits of amyloid.

DIAGNOSIS: SMALL FIBER NEUROPATHY

GROSS SPECIMEN IMAGE



D5256-08 B 1L3 Special Stain PGP9.5H (50X)

Clusters of intra-epidermal tiny axons above
larger dermal ones D5256-08 B 1L3 Special Stain
PGP9.5H (50X)Corkscrew beaded axon D5256-08 B 1L3 Special
Stain PGP9.5H (50X)Steve A. McClain MDSteve A. McClain, M.D.
Electronically signedthis report includes
illustrative color images