

Pathology report — skin biopsy

PGP 9.5 immunohistochemistry for small-fiber neuropathy (SFN)

Sex	Male
Age at study	27 years
Date of sampling	May 2025
Date of report	June 2025
Microscopic addendum	July 2025
Study type	Skin biopsy + PGP 9.5 immunohistochemistry
Sampling site	Skin of the right medial malleolus (ankle)

CLINICAL NOTES

Time course: onset in March 2024.
Clinical summary: paresthesia in the upper and lower extremities, bilateral hypoesthesia, and sexual dysfunction. Neurology recommended a skin biopsy with immunohistochemistry for evaluation of small-fiber neuropathy (SFN).
Referring clinical diagnosis: small-fiber neuropathy.

SPECIMEN AND GROSS DESCRIPTION

Biopsy of a skin lesion from the right ankle (malleolus).
A punch biopsy measuring 0.6 × 0.4 × 0.3 cm is received, covered by rough light-brown epidermis. On section, the dermis is whitish and soft, associated with yellow tissue of fibroadipose appearance. The entire specimen is submitted.
No prior histopathology studies are referenced in the report.

DIAGNOSIS

Skin lesion of the right medial malleolus of the ankle, biopsy:
NEGATIVE FOR SMALL-FIBER NEUROPATHY.
Comment from the original report: the distribution and morphology observed in PGP 9.5 immunohistochemical expression in this biopsy are negative for small-fiber neuropathy.

ADDENDUM — MICROSCOPIC DESCRIPTION (JULY 2025)

The specimen is re-evaluated for a microscopic description. The diagnosis is restated: negative for small-fiber neuropathy.
Histologic sections show epidermis within normal parameters. In the superficial dermis there are small-caliber blood vessels, mild superficial dermal edema, and a normal distribution of nerve bundles, without evidence of increased small-fiber values.
PGP 9.5 staining shows adequate distribution and density of small fibers in the epidermis, with a mean nerve-bundle distance of 182.8 microns.

SUMMARY

Right-malleolus skin biopsy with PGP 9.5 immunohistochemistry negative for small-fiber neuropathy (SFN). Intraepidermal fiber density and distribution described as adequate. Nonspecific superficial dermal findings (mild edema).