

Welcome!

FPN Webinar:

Idiopathic Neuropathy with Norman Latov, MD, PhD

Wednesday, February 22, 2023

We will begin our presentation shortly.



Moderator:



Lindsay Colbert

Executive Director
the Foundation for Peripheral Neuropathy



Before We Begin



This presentation is being recorded. The recording link will be emailed to you so you can view it again later.



Submit your questions anytime via the Questions Box. We will try to answer them during this webinar.

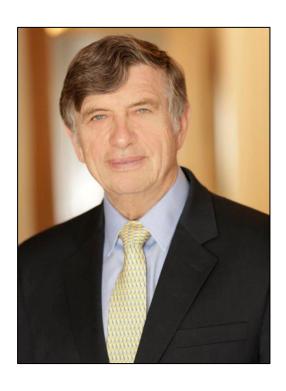


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Presenter:

Norman Latov, MD, PhD
Professor of Neurology and Neuroscience
Weill Cornell Medical College

IDIOPATHIC NEUROPATHY

AND WHAT TO DO IF YOU HAVE IT

Norman Latov, MD,PhD Weill Cornell Medicine

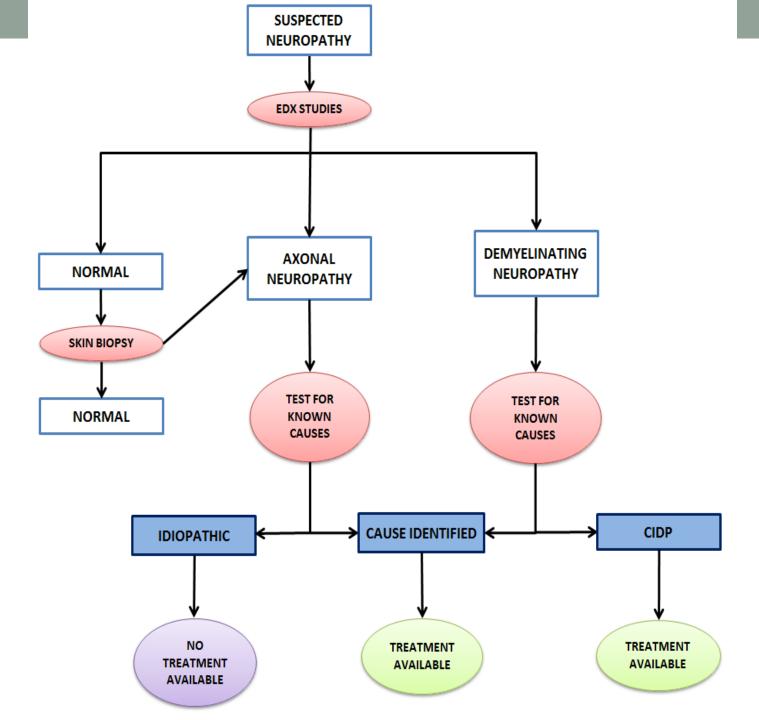


"You have a serious illness of an undisclosed nature."

The New Yorker Collection 1999 Leo Cullum from cartoonbank.com.

IDIOPATHIC - DEFINITION

- MEDICAL RELATING TO OR DENOTING ANY DISEASE OR CONDITION FOR WHICH THE CAUSE IS UNKNOWN.
- FROM THE GREEK (idios, one's own) and (páthos, suffering, i.e. disease), or "A DISEASE OF ITS OWN"
- CRYPTOGENIC FROM THE GREEK (crypto, hidden and genic, origin, or "OF HIDDEN ORIGIN" (known or unknown)
- FROM A PATIENT A BLEND WORD COMBINING "IDIOTIC" and "PATHETIC"



CAUSES OF DEMYELINATING NEUROPATHY

IMMUNE MEDIATED

- ACUTE INFLAMMATORY DEMYELINATING POLYNEUROPATHY (GUILLAIN BARRE SYNDROME, GBS)
- CHRONIC INFLAMMATORY DEMYELINATING POLYNEUROPATHY (CIDP)
- MULTIFOCAL MOTOR NEUROPATHY (MMN)
- MAG NEUROPATHY
- POEMS SYNDROME
- HEREDITARY DEMYELINATING NEUROPATHY
- DRUG INDUCED AMIODARONE

CAUSES OF AXONAL NEUROPATHY

- ENDOCRINE AND METABOLIC DIABETES, HYPOTHYROID, RENAL FAILURE
- INFECTIOUS LYME, HEPATITIS C, HIV-1/2, ...
- AUTOIMMUNE AXONAL GUILLAIN BARRE, SJOGREN, VASCULITIS, CELIAC DISEASE, SARCOID ...
- PARANEOPLASTIC ASSOCIATED WITH CANCER (LUNG, LYMPHOMA, MYELOMA, IgM MONOCLONAL GAMMOPATHIES
- NUTRITIONAL ALCOHOL TOXICITY, B12 OR B1 DEFICIENCY, B6 DEFICIENCY OR TOXICITY
- TOXIC LED, MECRCURY (SEA FOOD)...
- DRUG INDUCED CHEMOTHRAPY, INH, CHECK POINT INHIBITORS...
- HEREDITARY AXONAL NEUROPATHY

WHAT ELSE CAN IT BE

IF STABLE

- RESIDUAL SYMPTOMS FROM A PAST INSULT
 - GUILLAIN BARRE SYNDROME, CIDP IN REMISSION, LYME DISEASE, ACUTE VIRAL ILLNESS, DRUG OR TOXIN INDUCED, OTHER INFLAMMATORY CONDITIONS, etc.
 - COMMON IN SMALL FIBER NEUROPATHIES

IF PROGRESSIVE

- DIAGNOSIS CAN BE MISSED IF NOT TESTED FOR
- AN AS YET UNIDENTIED GENETIC MUTATION
- NON-SYSTEMIC VASCULITIS OR SARCOIDOSIS
- ATYPICAL CIDP NOT MEETING ELECTRODIAGNOSTIC CRITERIA
- PRIMARY (LIGHT CHAIN) AMYLOIDOSIS

HOW TO TELL IF THE NEUROPATHY IS WORSENING (PROGRESSIVE)

- FLUCTUATING SYMPTOMS MOST OFTEN INDICATE A STABLE UNDERLYING NEUROPATHY; FLUCTURATIONS CAN BE DUE TO ENVIRONMENTAL OR OTHER FACTORS
- MOTOR FUNCTIONS ARE MORE RELIABLE MEASURES OF PROGRESSION THAN SENSORY SYMPTOMS.
- SENSORY SYMPTOMS ARE LESS CONSISTENT OR RELIABLE
- SUSPECTED PROGRESSION NEEDS TO BE CONFIRMED BY NEUROLOGICAL EXAMINATION AND ELECTRODIAGNOSTIC STUDIES

MEASURING MOTOR FUNCTIONS

- GRIP STRENGTH
 - USE HAND- HELD DYNAMOMETER
- LEG STRENGTH MOST SENSITIVE FUNCTIONS ARE THOSE THAT CAN BE DONE WITH SOME DIFFICULTY
 - WALKING ON THE HEELS OR TOES, GETTING UP FROM A CHAIR OR FROM A KNEELING POSITION WITH EITHER LEG, WALKING UP OR DOWN STAIRS, RUNNING
- WALKING SPEED
 - MEASURE ABOUT 25 ft, WALK IT AS FAST AS YOU CAN AND TIME YOURSELF, REPEAT 3 TIMES AND AVERAGE, LOG THE RESULTS, REPEAT ONCE OR TWICE A WEEK

GRIP STRENGTH



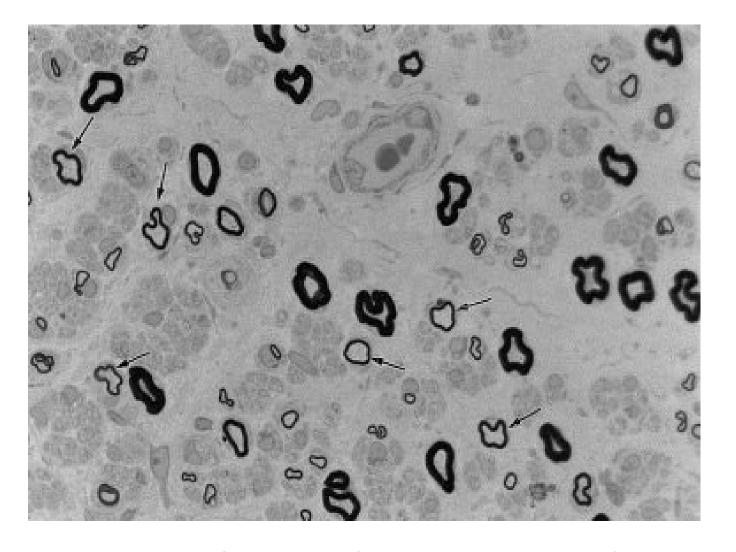


WHAT TO DO IF THE NEUROPATHY IS PROGRESSIVE

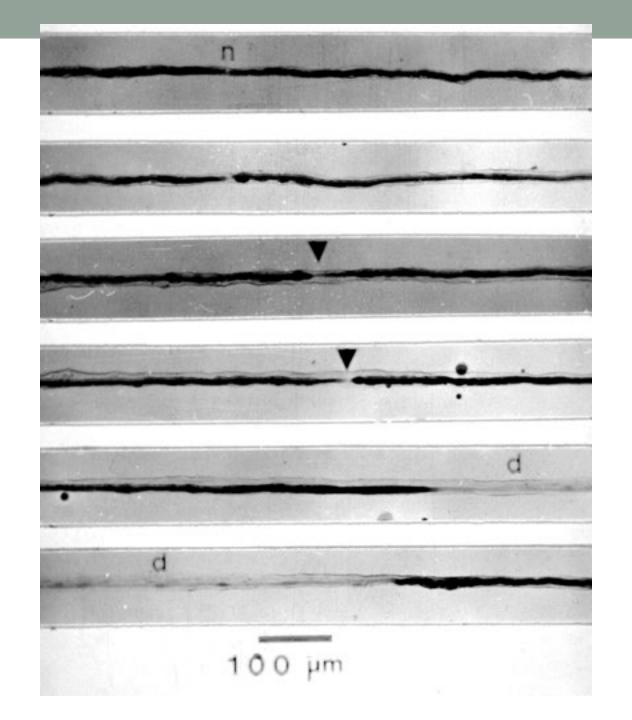
- REPEAT TESTING
 - EMG AND NC STUDIES MIGHT REVEAL DEMYELINATING CHANGES INDICATIVE OF CIDP THAT WERE PREVIOUSLY UNDETECTED
 - PREVIOUSLY BORDERLINE ABNORMALITIES MIGHT BECOME MORE OBVIOUS
 - IF UNCHANGED CONSIDER MYELOPATHY OR MYOPATHY
- GENETIC TESTING, IF NOT ALREADY DONE, EVEN IF THERE IS NO FAMILY HX OF NEUROPATHY
- NERVE AND MUSCLE BIOPSY CAN REVEAL A DIAGNOSIS IN APPROXIMATELY 20% OF CASES
 - NON-SYSTEMIC VASCULITIS, ATYPICAL CIDP, PRIMARY (LIGHT CHAIN) AMYLOIDOSIS, NON- SYSTEMIC SARCOIDOSIS
 - NEEDS TO BE DONE AT SPECIALIZED REFERRAL CENTERS



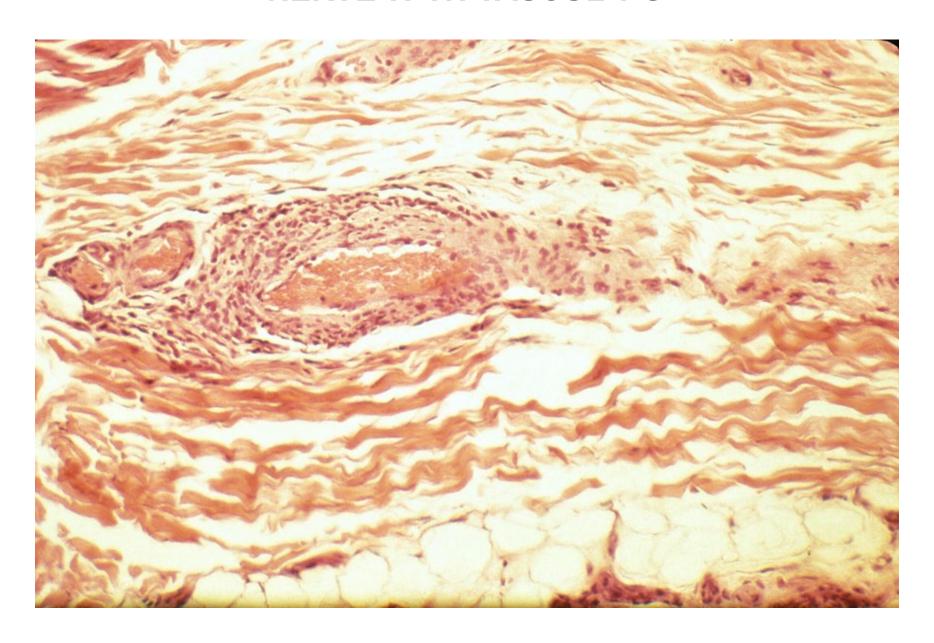
Figure 1. Sural nerve biopsy. Significant loss of myelinated fibers. Several myelin sheaths are too thin with respect to the diameters of the axons (arrows). (Original magnification, ×40, Vallat et al, M&N 2003;27:478-485.)

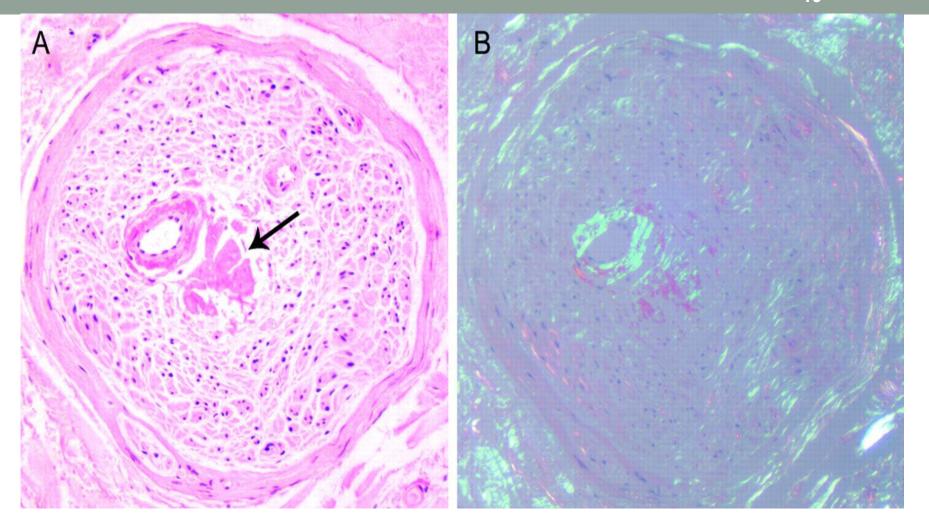


Original magnification, ×40, Vallat et al, M&N 2003;27:478-485.

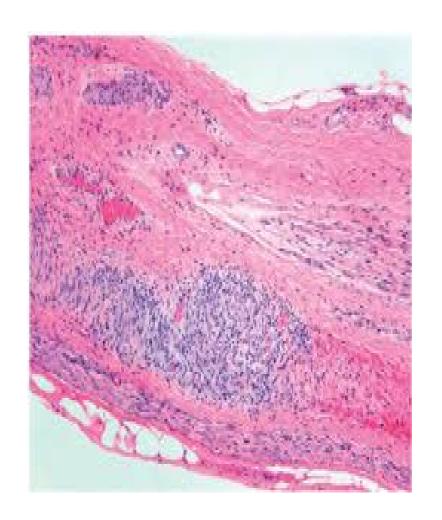


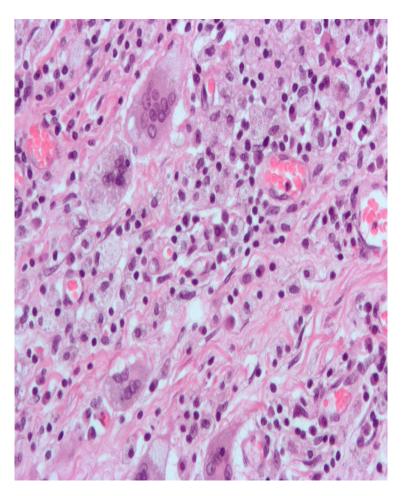
NERVE WITH VASCULITIS





AMYLOID NEUROPATHY





SARCOID GRANULOMA IN NERVE

WHAT TO DO IF THE NEUROPATHY IS PROGRESSIVE AND ALL TESTS INCLUDING NERVE BIOPSY ARE NEGATIVE

COULD IT BE AUTOIMMUNE ?

- THERE IS NO CONSENSUS
- SOME PHYSICIANS WOULD CONSIDER "OFF LABEL"
 (EXPERIMENTAL) THERAPY WITH CORTICOSTEROIDS, IVIG,
 OR RITUXIMAB (ANTI B-CELL ANTIBODY), DEPENDING ON
 THE CLINICAL PRESENTATION (RAPID PROGRESSION,
 MULTIFOCALITY), RISK TOLERANCE, AND INSURANCE
 APPROVAL

ALTERNATIVE TREATMENTS

- THEY ARE CALLED "ALTERNATIVE" BECAUSE THEY ARE UNPROVEN
- MOST ARE NATURALLY OCCURING AND NOT PROPIETARY, SO THAT THEY ARE NOT REGULATED OR FUNDED FOR CLINICAL TRIALS
- IT WOULD BE USEFUL TO ESTABLICH AN ON-LINE DATA BASE WHERE RESPONSES CAN BE TABULATED AND COMPARED

WHAT ELSE CAN BE DONE

SUPPORTIVE THERAPIES

- PHYSICAL THERAPY, ORTHOTICS, AIDS TO AMBULATION
- TREATMENT OF NEUROPATHIC PAIN
- TREATMENT OF AUTONOMIC SYMPTOMS

RESEARCH IS HOPE

- DIRECTLY SUPPORT RESEARCH
- FORM OR JOIN POLITICAL ACTION COMMITTEES TO ADVOCATE FOR RESEARCH FUNDING BY THE NIH
 - "ALL POLITICS ARE LOCAL" Tip O'Neill
 - REQUEST THAT THE CONGRESSIONAL APPROPRIATION COMMITTEES DIRECT THE NIH TO REPORT ON FUNDING FOR NEUROPATHY RESEARCH



Questions?

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Can we help with anything else? Call 847-883-9942 or email info@tffpn.org. You may also mail inquiries and donations to *the* Foundation *for* Peripheral Neuropathy at 485 E. Half Day Road, Suite 350, Buffalo Grove, Illinois 60089.

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