



МИНИСТЕРСТВО ЗА ЗДРАВСТВО  
РЕПУБЛИКА МАКЕДОНИЈА

# ***Невромукулни болести***

***ЈЗУ Универзитетска Клиника за неврологија Скопје***

***Универзитетска Болница Мичиген Ен Арбор (Јуни – Јули, 2014)***

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# Невромускулни болести





# Ментор Prof. Dr. Eva Feldman

## Eva Feldman Elected President of ANA



Eva Feldman, M.D., Ph.D., director of the Program for Neurology Research & Discover, has been named president-elect of the American Neurological Association, a professional society of academic neurologists and neuroscientists.

The announcement was made at the association's annual meeting Oct. 11-14 in Baltimore. She will become president in two years.

The association educates physicians in the neurosciences and works to better understand and treat nervous system diseases.

At U-M Medical School, Feldman also directs the A. Alfred Taubman Medical Research Institute, the ALS Clinic and the Juvenile Diabetes Research Foundation Center.

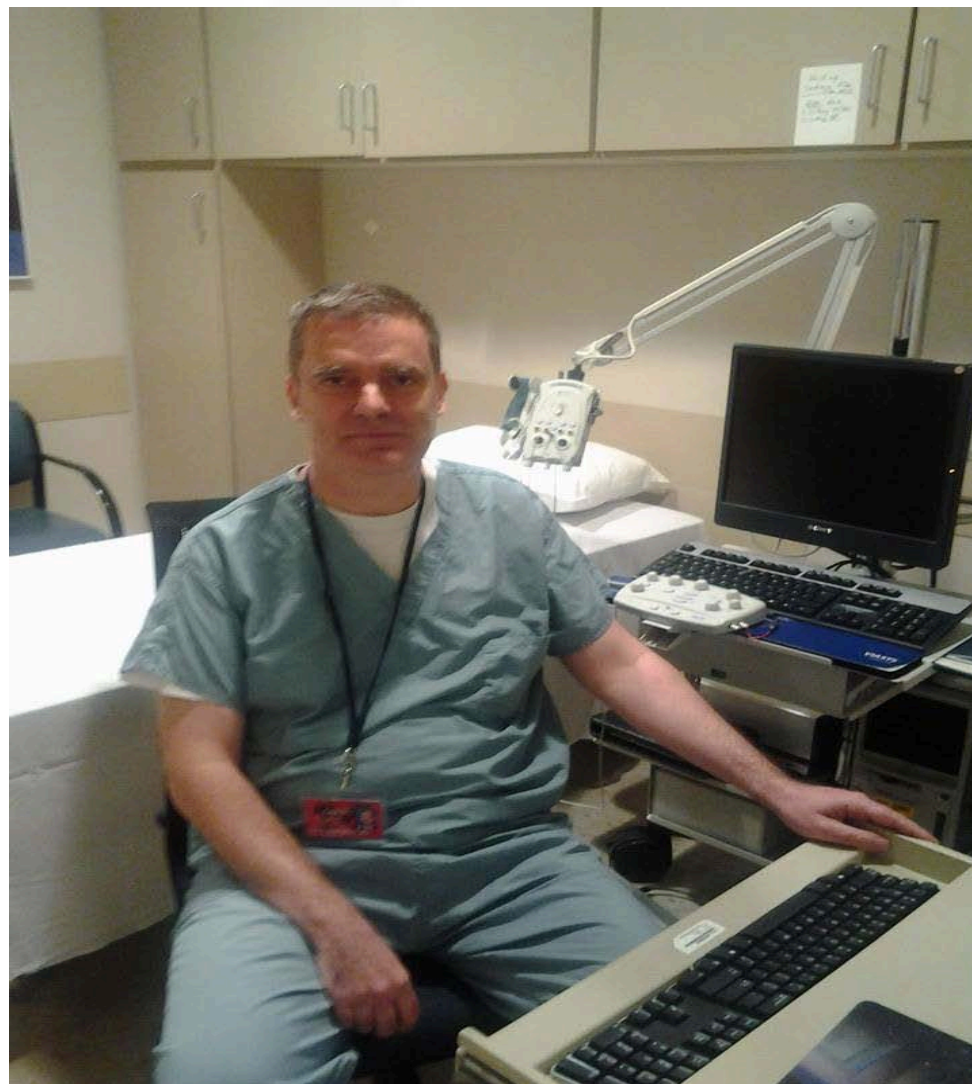


# Prof. Dr. Ann Little Prof. Dr. James Teener





# ЕМГ





# EMG

Nerve conduction study

Needle EMG

Single needle EMG





# Мускулна биопсија

Перкутана иглена биопсија  
Отворена мускулна биопсија





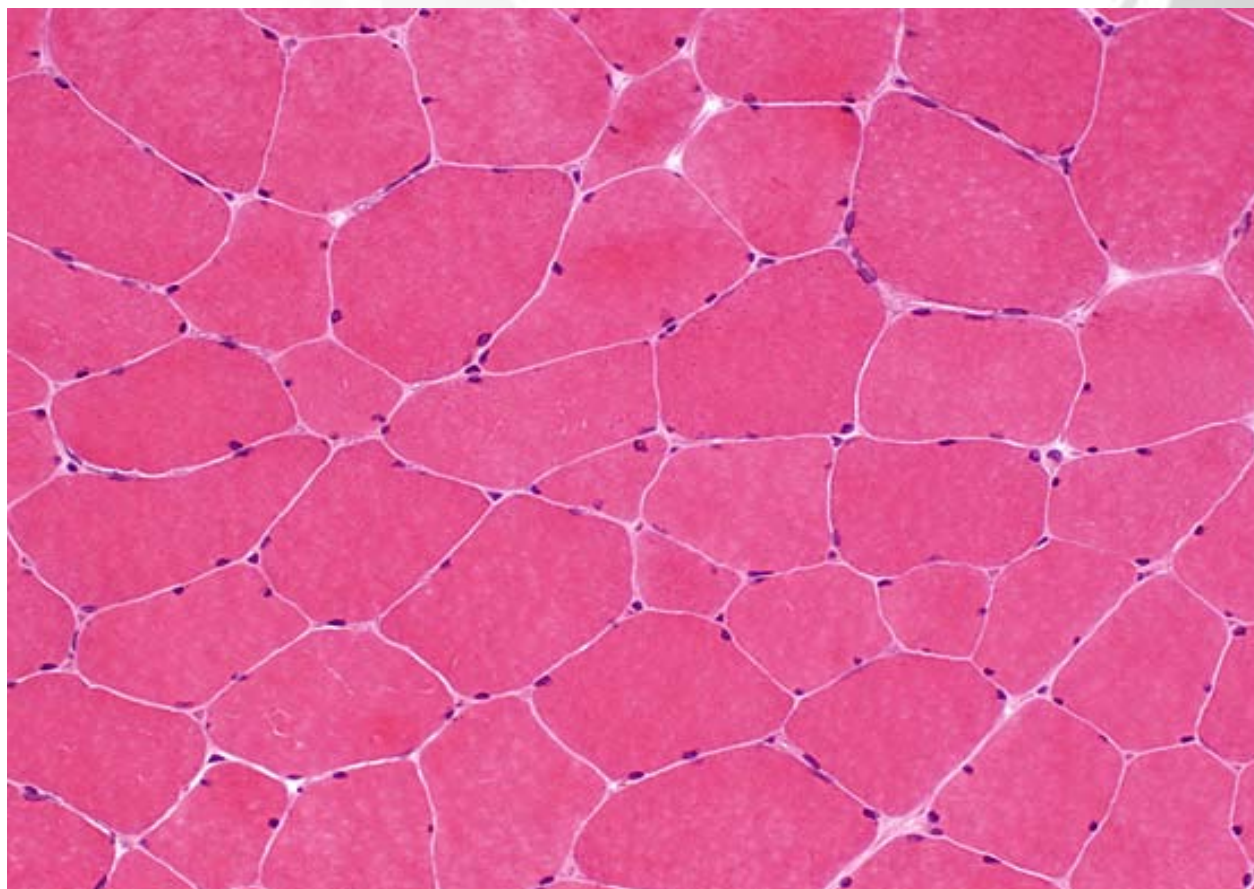
# Перкутана иглена биопсија





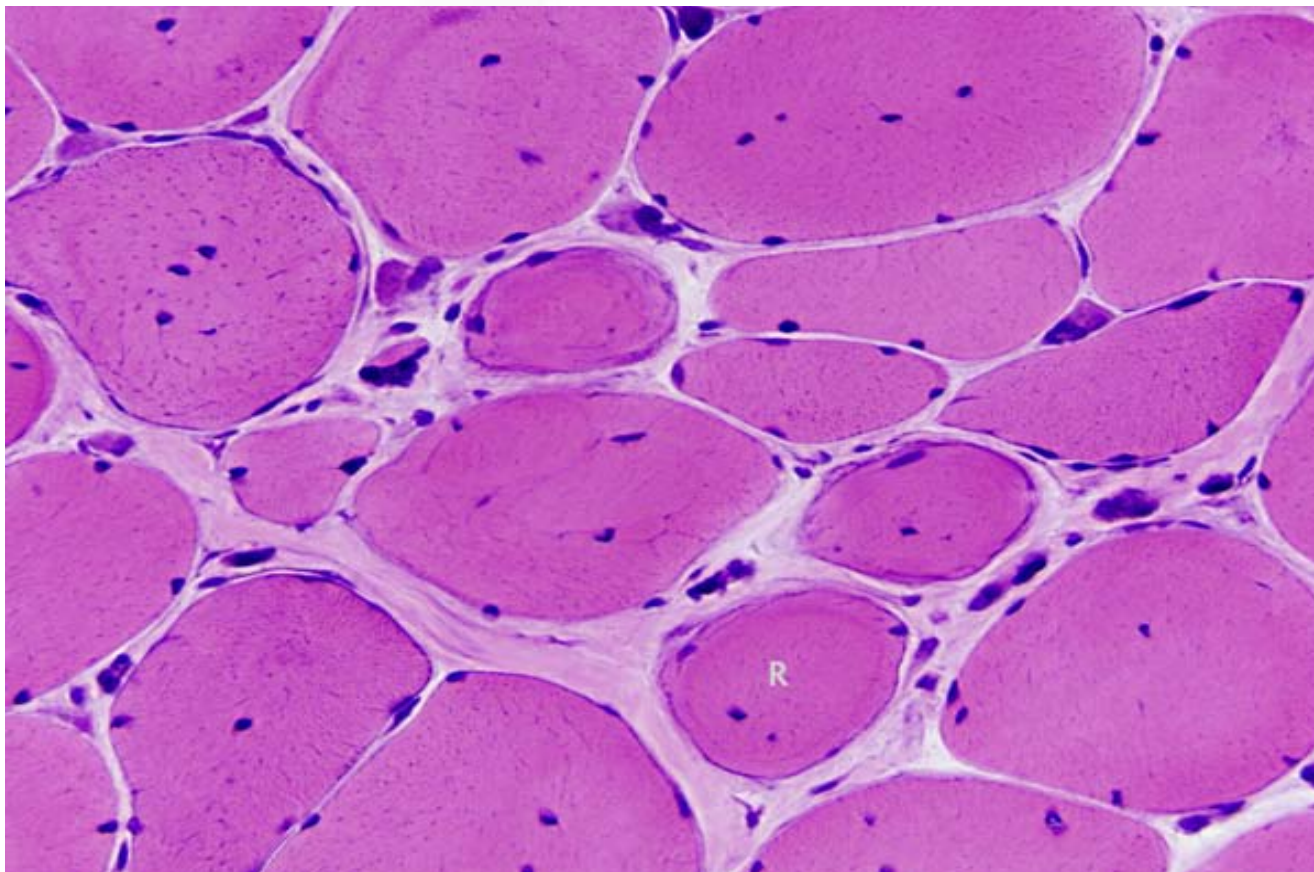


# Нормална мускулна биопсија



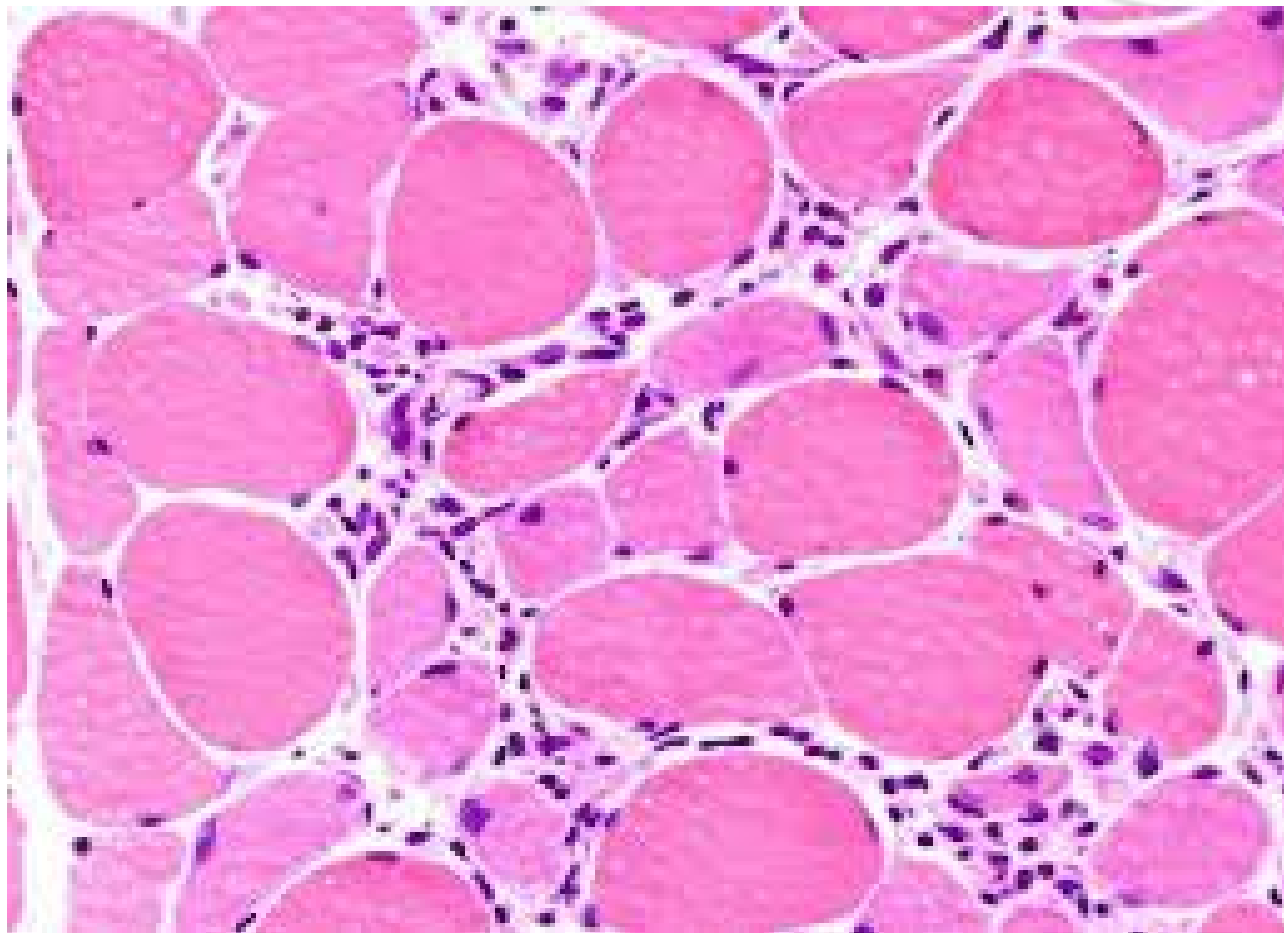


# Мускулна дистрофија



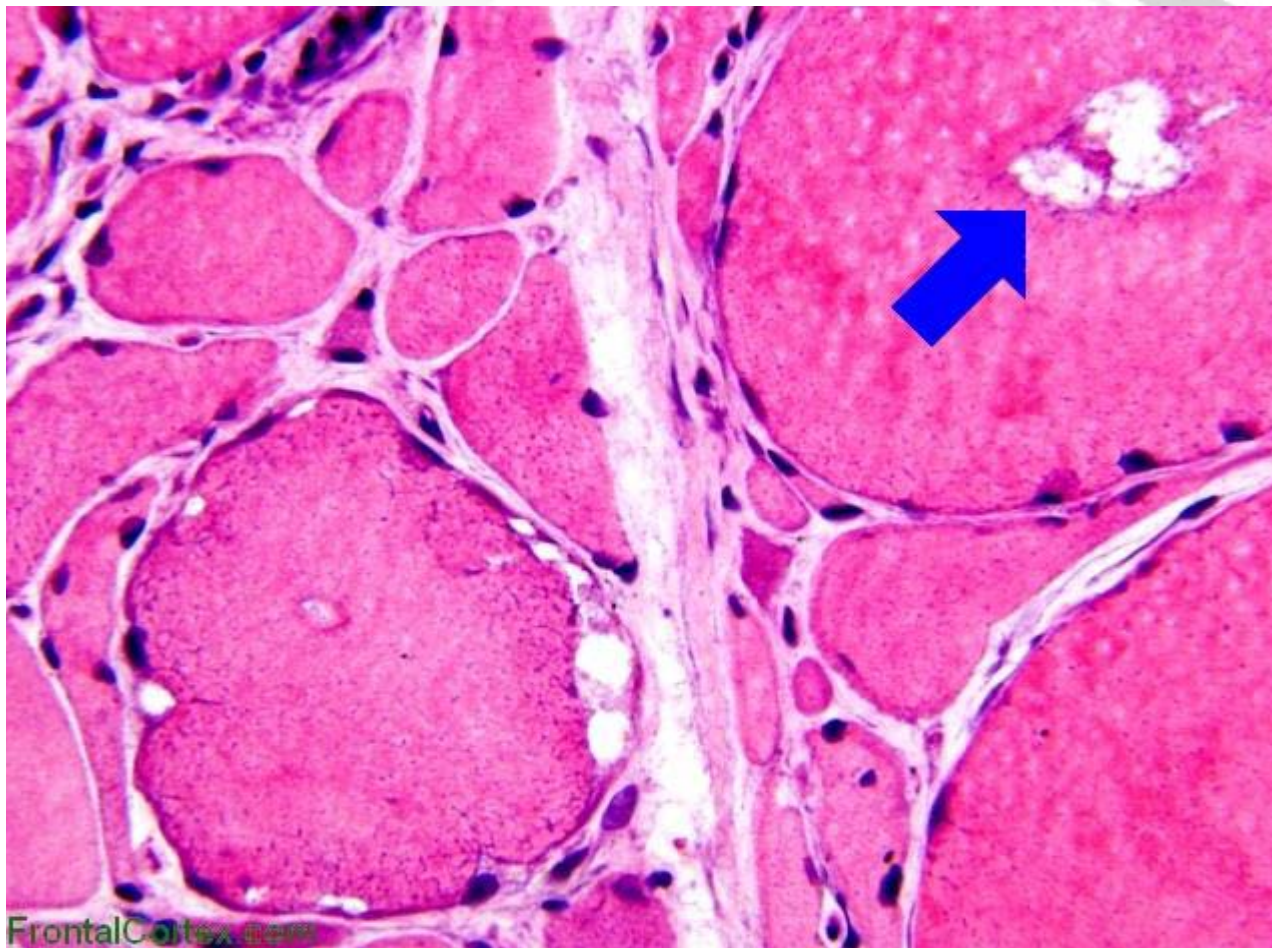


# Полимиозит



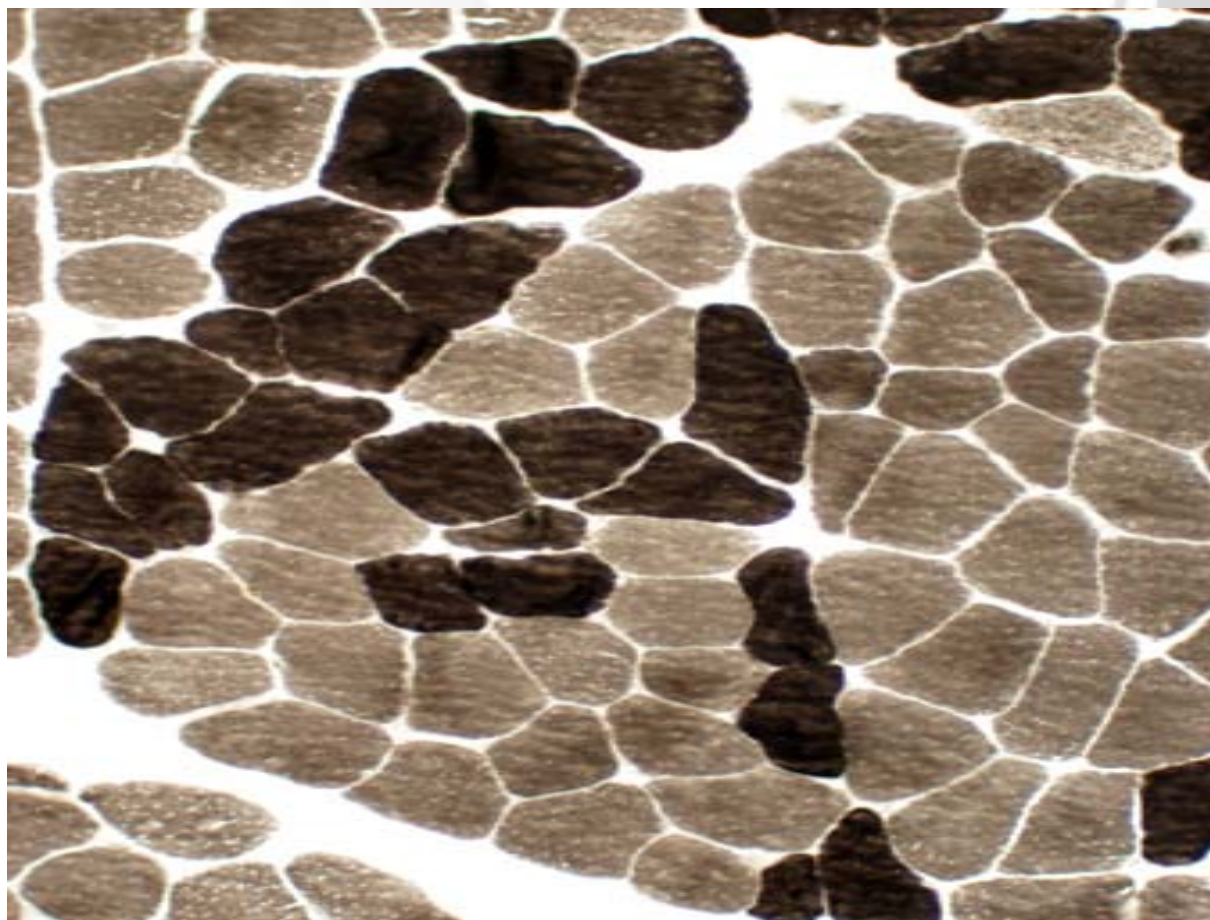


# Inclusion body myositis





## Невропатски променет мускул





# Невропатии

- Гликемија
- Ниво на Б12 <
- Ниво на Б6 >
- Тиреоиден статус
- Електрофореза на серумски протеини  
(моноклонални гамапатии MGUS)



- Невропатска болка

## Small fiber neuropathy

**Small fiber peripheral neuropathy** is a type of [peripheral neuropathy](#) that occurs from damage to the small [unmyelinated](#) peripheral nerve fibers, manifests in a variety of different diseases and often results in symptoms of burning pain, parestesias, dysesthesias and insensitivity to pain. Diagnosis of small fiber neuropathy is determined primarily by the history and physical exam, but skin biopsy evaluation of intraepidermal nerve fiber density can provide diagnostic confirmation.

- Diabetes or Glucose intolerance
- Hypothyroidism, Lupus, vasculitis, sarcoidosis, nutritional deficiency, amyloidosis and alcoholism.
- Metabolic syndrome

Metabolic syndrome is a cluster of conditions — increased blood pressure, a high blood sugar level, excess body fat around the waist and abnormal cholesterol levels — that occur together, increasing your risk of heart disease, stroke and diabetes.





- Миастенија гравис
- Антитела против ацетилхолинските никотински постсинаптички рецептори
- The anti-acetylcholine receptor (AChR) antibody test for diagnosing MG has the following characteristics:
  - High specificity (up to 100%)
  - Positive in as many as 90% of patients who have generalized MG
  - Positive in only 50-70% of patients who have purely ocular MG