

HISTOLOGY REPORT OF MUSCLE BIOPSY

Patient Name: DOE John

Patient Age: 7 years old, born on 20/11/2015

Biopsy date: 20/11/2021

Biopsy Number: 777-07

Sent on: 21/11/2021

Muscle of biopsy: Quadriceps

Cryostat sections of the fragment frozen at -160°C

Hematein-eosin and Gomori trichrome.

- Two samples were analyzed. The biopsy looks abnormal. Muscle fibers have unequal size. There are two populations of muscle fiber with different sizes, one is normal, the other is atrophied.
- Most muscle nuclei are in normal situations but some atrophied fibers have internalized nuclei and a few centralized nuclei.
- In Gomori trichrome, most atrophied fibers have a dark coloration with small structural reorganization. Some fibers have a purplish shade.
- An important number of fibers contains fuscophilic inclusions like rod and dark clusters, mostly in atrophied fibers.
- There seem to be a few necklace fibers.
- There is no sign of necrosis but some fibers are in regeneration.
- No increase of the interstitial connective tissue.

ATP Staining. There is an abnormal fiber differentiation and no fiber bundling.

Oxidative Staining. There are no fiber cores, lobulation or dark circles.

CONCLUSIONS: The pathologic profile of this patient is similar to congenital myopathy with a nemaline subtype with strong fiber type disproportion and smaller fiber type I.

Dr. Jane Doe