

Client: Example Client ABC123
123 Test Drive
Salt Lake City, UT 84108
UNITED STATES

Physician: Doctor, Example

Patient: Patient, Example

DOB: 5/29/1977
Gender: Female
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 01/01/2017 12:34

SP Final Report

ARUP test code 8070060

Submitting Physician

[REDACTED]

Clinical History

This 42-year-old woman presents with a presumed myopathy. A skeletal muscle biopsy was performed at [REDACTED] on 6/14/2019.

Diagnosis

SKELETAL MUSCLE, SITE NOT SPECIFIED, BIOPSY :
A. INFLAMMATORY MYOPATHY CONSISTENT WITH POLYMYOSITIS.
B. SEVERE TYPE II FIBER ATROPHY (SEE COMMENTS).

06/18/19 DK/DK

I certify that I personally conducted the diagnostic evaluation on the above specimens and have rendered the above diagnosis(es):

[REDACTED]
electronic signature

University of Utah Health Care, Department of Pathology
Huntsman Cancer Institute
2000 Circle of Hope, RM 3100
Salt Lake City UT 84112

Comments

Type II myofiber atrophy is a nonspecific finding that may be present in the setting of chronic steroid use, Cushing's syndrome, disuse atrophy, myasthenia gravis, upper motor neuron disease, congenital hypotonia, hyperparathyroidism, paraneoplastic syndromes, connective tissue disorders and alcoholic myopathy. Clinical correlation is advised.

Fellow

[REDACTED]

H=High, L=Low, *=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

Gross Description

Received on 06/15/2019 is tissue designated as "right-sided muscle." The tissue is received fresh at ARUP Laboratories, Inc. It measures 0.9 x 1.0 x 0.3 cm, 1.0 x 0.5 x 0.4 cm, 0.6 x 0.7 x 0.3 cm, and is divided into four portions. Two portions are submitted for histochemical staining (frozen), one portion for light microscopy (formalin fixative), and one portion is retained for possible electron microscopy (glutaraldehyde fixative).

CD/KNT 06/15/19

Microscopic Examination

SPECIMEN: RIGHT-SIDED MUSCLE.

Stains:

Paraffin sections: H+E, thioflavin-S.

Cryosections: H+E, modified Gomori trichrome, PAS, NADH-TR, ATPase pH 4.6 and 9.4, modified SDH, Oil-Red-O, non-specific esterase, cytochrome-C-oxidase, acid phosphatase, myophosphorylase.

Tissue quality: Adequate.

Myofiber size: There is moderate variation in muscle fiber size with scattered atrophic and hypertrophic split fibers noted. There is no grouped atrophy present.

Myofiber type: There is no fiber type grouping identified. Severe type II fiber atrophy is seen in the specimen.

Myonuclei: Significant numbers of internal nuclei are seen.

Myofibers changes:

Target/targetoid structures: Not identified.

Moth-eaten fibers: Occasional moth-eaten fibers are noted.

Necrosis: Scattered degenerating fibers are seen.

Regeneration: Occasional regenerating fibers are seen.

Rimmed vacuoles: Not identified.

Ragged red fibers: Not identified.

Blood vessels: Unremarkable.

Inflammatory response: Moderate inflammation is present in the specimen, much of which is endomysial.

Interstitial tissue: Mild fibrosis is seen in the muscle fascicles.

Other: The thioflavin-S stain for amyloid is negative. Myophosphorylase and non-specific esterase staining are normal. Increased amounts of glycogen are not seen with PAS staining. The Oil-Red-O shows normal lipid stores. Acid phosphatase staining is increased in regions of inflammation. Cytochrome-C-oxidase/succinate dehydrogenase reveals rare ragged red fiber equivalents.

06/18/2019 14:25

H=High, L=Low, *=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Submitting Physician	SP-190-014839	6/14/2019 9:08 00 AM	N/A	6/18/2019 3:51:00 PM
Clinical History	SP-190-014839	6/14/2019 9:08 00 AM	N/A	6/18/2019 3:51:00 PM
Diagnosis	SP-190-014839	6/14/2019 9:08 00 AM	N/A	6/18/2019 3:51:00 PM
Comments	SP-190-014839	6/14/2019 9:08 00 AM	N/A	6/18/2019 3:51:00 PM
Fellow	SP-190-014839	6/14/2019 9:08 00 AM	N/A	6/18/2019 3:51:00 PM
Gross Description	SP-190-014839	6/14/2019 9:08 00 AM	N/A	6/18/2019 3:51:00 PM
Microscopic Examination	SP-190-014839	6/14/2019 9:08 00 AM	N/A	6/18/2019 3:51:00 PM

END OF CHART

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Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com
500 Chipeta Way, Salt Lake City, UT 84108-1221
Tracy I. George, MD, Laboratory Director

Patient: Patient, Example
ARUP Accession: SP-190-014839
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Page 3 of 3 | Printed: 11/24/2020 2:17:01 PM
4848