Experiment AM-1: Skeletal Muscle, Weight and Work

Warning: The muscle preparation used in this experiment is functional for a limited period of time. If the muscle is bathed periodically in Ringer's solution, it will work for about four hours. To conserve time, complete all the exercises in the experiment before analyzing the data.

Exercise 1: Maximum Contraction

Aim: To make sure all fibers contract when the muscle is stimulated.

Procedure

 Click the Stimulator Preferences icon on the LabScribe toolbar (<u>Figure AM-1-L1</u>) to open the stimulator control panel (<u>Figure AM-1-L2</u>) on the Main window.



Figure AM-1-L1: The LabScribe toolbar.

- 2. Check the values for the stimulus parameters that are listed in the stimulator control panel on the Main window: the pulse amplitude (Amp) should be set to 4.0 V; the number of pulses (#pulses) to 1; and, the pulse width (W) to 10ms. To change a stimulus parameter, click on the arrow buttons to the right of the window that displays the value of the parameter to increase or decrease the value, or type the value of the parameter in the window next to the label of the parameter. Click the Apply button to finalize the change in any stimulus parameter.
- Click Record to stimulate the nerve with 4.0V. Type 4.0V in the Mark box to the right of the Mark button, and press the Enter key or the Mark button to attach a comment to the recording.

Apply Pu		uste.	Pulse		Holding
Button Amp			Width		Potential
Books To Pales	[m] Ang (1.25)	Stylen I	(2 MONE 0.1	(c) Follows 6.9	100 mm m
Stimulus		Number		Time Off in	
Mode		of Pulses		Each Cycle	

Figure AM-1-L2: The stimulator control panel

4. Click Stop to halt the recording.

Am 1 Skeletal Musclelab Report

National Institutes of Health (U.S.)

Am 1 Skeletal Musclelab Report:

Annual Research Progress Report - US Army Institute of Surgical Research ,1981 Annual Research Progress Report Turek's Orthopaedics Principles and Their Applications Anil K. Jain, 2016-01-01 Now in its revised updated ,1981 Seventh edition this text provides residents and medical students with a broad overview of adult and pediatric orthopaedics Major sections focus on general and regional disorders of the musculoskeletal system **Pathology of Soft Tissue Tumors** Steven I. Hajdu, 1979 Third Special Report to the U.S. Congress on Alcohol and Health United States. Department of Health, Education, and Welfare, 1978 Cumulated Index Medicus .1994 **Special Report to the U.S.** Congress on Alcohol & Health from the Secretary of Health, Education, and Welfare United States. Department of Health, Education, and Welfare, 1978 Published Scientific Papers of the National Institutes of Health National Institutes of Health (U.S.),1978 Each issue lists papers published during the preceding year Physical Fitness/sports Medicine, 1985 Consists of citations selected from those contained in the National Library of Medicine's Medical Literature Analysis and Retrieval System Index Medicus, 2002 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through Am 1 Skeletal Musclelab Report

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