

GRIP STRENGTH AND MUSCLE FATIGUE

STANDARDS

- **3.2.7B, 3.2.10B, 3.2.12B** – Evaluate experimental information; describe and interpret information using qualitative and quantitative skills.
- **3.3.7B, 3.3.10B, 3.3.12B** – Describe and examine the chemical and structural basis of living organisms.



INTRODUCTION

Skeletal muscle is composed of bundles of individual muscle fibers (see Figure 1) and has unique properties which allow it to respond to stimuli by contracting. Individual muscle fibers respond to a stimulus (e.g., nerve impulse) with an all or none response, meaning the muscle fiber contracts to its maximum potential or not at all. Once a muscle has contracted, relaxation must occur before it can contract again. There are three basic types of muscle fibers: *slow fibers*, *fast fibers*, and *intermediate fibers*. Fast fibers contract quickly but for a relatively short duration. Slow fibers respond less rapidly, but are capable of a more sustained contraction. The strength of contraction of a whole

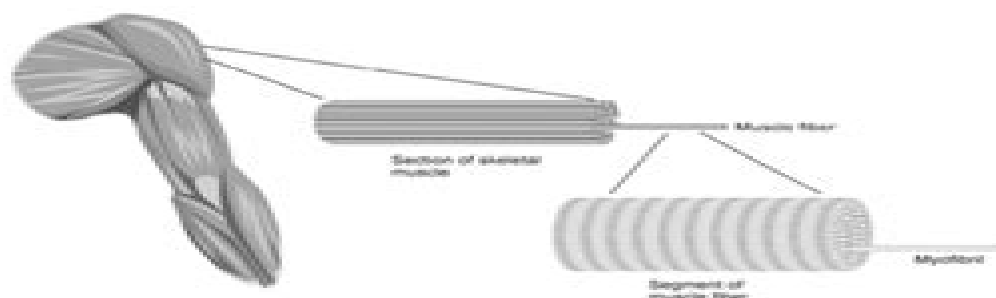


Figure 1

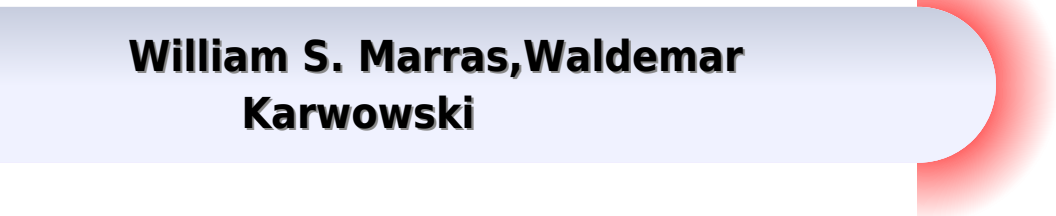
muscle is dependent on the number of muscle fibers involved.

Muscle fatigue occurs with prolonged or repetitive use of a muscle group, and is familiar to anyone who has ever carried a heavy suitcase or walked up a long flight of stairs. With fatigue, there is a sense of weakness and even discomfort, which eventually leads one to discontinue the activity that is causing it. The mechanism of fatigue is multifactorial and not fully understood, but is felt to involve the central nervous system, peripheral nervous system, muscle units and individual muscle fibers. At the level of muscle cells, depletion of energy stores may be important.

Regular exercise improves muscular function and delays the onset of fatigue, thus increasing the amount and duration of work that can be performed. Exercise is important for optimal athletic performance, prevention of injury in athletes and non-athletes, and

Grip Strength And Muscle Fatigue Lab Answers

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Karwowski**



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Muscle Strength Shrawan Kumar,2004-04-27 Muscle strength is an important topic for ergonomics practitioners and physiologists to understand especially as it relates to workplace injuries Muscle strength and function is at the heart of many injuries that lead to reduced productivity and economic strain on the worker the company and society as a whole This comprehensive source o **Textbook of Physiology for Medical Students, 2nd Edition - E-Book** Harminder Singh,Itika Singh,Mridul Yadav,2022-11-16 Textbook of Physiology for Medical Students 2nd Edition E Book *Work Design: Occupational Ergonomics* Stephan Konz,2018-05-04 This book gives readers the tools they need to achieve work design that is ergonomically effective while remaining economically feasible Whether studying work design ergonomics in a college classroom preparing for the Board of Certification in Professional Ergonomics BCPE exam or working as a professional in the field readers can depend on this book to provide them with the information they need Work Design is a single source for ergonomics work design and work measurement Its engineering orientation equips readers with practical design information and procedures its explicit organization conversational style and clear explanations make it easy to read and understand The book s many charts and graphics dynamically illustrate important concepts and principles and its extensive references give readers confidence in the material *Scientific and Technical Aerospace Reports* ,1985 Towards Human Work Masaharu Kumashiro,E. D. Megaw,1991 **Biopac Laboratory Exercises** Richard G. Pflanzner,2004-01-22 Interventions, Controls, and Applications in Occupational Ergonomics William S. Marras,Waldemar Karwowski,2006-02-02 Completely revised and updated taking the scientific rigor to a whole new level the second edition of the Occupational Ergonomics Handbook is now available in two volumes This new organization demonstrates the enormous amount of advances that have occurred in the field since the publication of the first edition The editors have brought together **Journal of Rehabilitation Research and Development** ,1983 **Biology** ,1996 **Journal of Rehabilitation Research & Development** ,1983 Physical Fitness/sports Medicine ,1989 Consists of citations selected from those contained in the National Library of Medicine s Medical Literature Analysis and Retrieval System *Journal of Mechanical Design* ,1979 Human Engineering Guide to Equipment Design United States. Department of Defense. Joint Services Steering Committee,1972 **Lippincott Nursing Drug Guide** Amy Karch,2015-02-02 A comprehensive up to date drug guide for nursing students and practicing nurses Lippincott Nursing Drug Guide provides quick A to Z access to current vital drug information The book provides complete monographs for 725 common drugs including generic and trade names pronunciations pregnancy risk category controlled substance schedule if appropriate drug classes therapeutic actions indications contraindications and cautions available forms dosages pharmacokinetics IV facts if appropriate adverse effects interactions and nursing considerations organized by nursing process steps assessment interventions and teaching points More than 20 appendices cover a wealth of additional information from key facts on more than 200 less commonly used

drugs to alternative and complementary therapies pediatric dosages federal drug classifications normal lab values topical and ophthalmic drugs combination products CYP450 metabolized drugs and more The book also includes a 32 page full color photoguide to pills and capsules and a detailed index for quick retrieval of needed information The electronic ancillary contains the latest FDA updates on new drugs indications and warnings videos on safe drug administration updated NCLEX style questions and more **Cumulated Index Medicus** ,1994 *2014 Lippincott's Nursing Drug Guide* Amy M.

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