

## ⟨ Clinical Research ⟩

# Musculoskeletal Health Literacy in Patients With Foot and Ankle Injuries: A Cross-Sectional Survey of Comprehension

**Abstract:** Purpose. Approximately 33% of Americans have inadequate health literacy, which is associated with decreased medical knowledge, increased hospitalization and use of emergency care, and worse control of diseases. In this study, the Literacy in Musculoskeletal Problems (LIMP) questionnaire was used to evaluate the prevalence of limited musculoskeletal literacy in patients presenting to the emergency department (ED) with foot and ankle-related complaints, as these individuals may be at increased risk for inferior outcomes. Methods. In this cross-sectional study, individuals ≥18 years of age presenting with foot and ankle-related complaints to the ED were invited to participate. Participants completed a demographic survey and the LIMP questionnaire, with scores ≥6 indicative of adequate musculoskeletal literacy. The prevalence of inadequate health literacy and the influence of demographic parameters was assessed. Results. The mean LIMP score was 5 ± 2.06. Limited musculoskeletal health

literacy was seen in 32% of participants (18/56). Although gender (male), a current or prior employment in a health care field, and having previously seen a physician for a musculoskeletal complaint correlated with higher literacy rates, these values did not reach statistical significance ( $P > .05$ ). However, Caucasians and those with higher levels of education (equal to or more than college) were significantly more likely to possess adequate literacy ( $P = .008$ ,  $P = .004$ , respectively).

**Conclusions.** Approximately one third of patients presenting to the ED with foot and ankle-related complaints have limited musculoskeletal literacy and may lack the necessary skills required for making informed decisions regarding their care. This is concerning and has tremendous socioeconomic implications, as more than 234 000 people per day require medical care for ankle sprains in the United States.

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with average treatment costs for this injury in the ED setting estimated at \$1 458. Identification of those most at risk is thus crucial and will facilitate the development of interventions geared toward those most vulnerable.

**In the United States, studies of health literacy have estimated that between 33% and 48% of Americans possess inadequate health literacy.**

**Levels of Evidence:** Prognostic, Level IV study

**Keywords:** Health Literacy; Musculoskeletal Health Literacy; Literacy in Musculoskeletal Problems Questionnaire; LIMP

**H**ealth literacy is a measure of an individual's ability to obtain, process, and understand basic health information and services needed

DOI: 10.1177/1063640314539307. From the Division of Orthopaedic Surgery, Albany Medical Center, Albany, New York. Address correspondence to: Andrew J. Rosenbaum, MD, Division of Orthopaedic Surgery, Albany Medical Center, 1367 Washington Avenue, Suite 202, Albany, NY 12206; e-mail: andrewrosenbaum@gmail.com.

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# Ankle Surgery Procedures Cpt Codes Reference Guide

**Brigitte Niedzwiecki**

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Netter's Atlas of Anatomy for CPT and ICD-9-CM Coding Celeste G. Kirschner,Carlos A. G. Machado,2007 A selection of musculoskeletal illustrations and the CPT and ICD 9 CM codes that may be assigned to them Includes introductory text explaining anatomy and sample operative reports Provided by publisher

**CPT/ICD 9 Cross-Reference for Orthopaedic**

**Surgery 1998** American Academy of Orthopaedic Surgeons,1998

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### Foot and Ankle

Armen S. Kelikian,2004 This portable references provide succinct information on the most common orthopaedic procedures

### **Current Procedural**

**Terminology** ,2010 Guide to Medical Billing and Coding Inc Icdc Publishing,2007 Medical billing is one of the fastest growing employment opportunities in the United States today Insurance companies medical offices hospitals and other health care providers are in great need of trained personnel to create medical claims This book will ensure learning the skills necessary to become a successful medical claims biller It is presented in a comprehensive yet user friendly way following a logical learning format beginning with a broad base of information and then step by step following the course for creation of a medical claim This book teaches the skills necessary to become a well rounded medical biller By completing this course of study with a satisfactory grade the user will be granted a certificate and can have the opportunity to work towards an Honors Certificate which is even more valuable to a potential employer

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### Current Procedural

Terminology American Medical Association,2000-11 This work aims to give readers everything they need to know for easy fast accurate coding

### **CPT Expert 2002** Medicode,2001

### **2004 Cpt Professional Edition**

American Medical

Association,2003-10 New Category II supplemental tracking codes and information for performance measurement All 2004

codes modifiers and guidelines including deleted codes for 2004 Color coded symbol and highlight indicates new and revised text Summary of additions deletions and revisions in Appendix B Deleted codes for 2004 appear with a strikeout to help the user code claims from 2003 and new text appears underlined This provides a quick reference to 2004 changes without having to refer to previous editions for the original code language Place of Service Codes with facility name and description These codes are used on professional claims to specify the entity where service s are rendered Color bleed bars and thumb notch tabs help you quickly located code sections Procedural and anatomical illustrations help to visually confirm procedures being coded Color coded keys make identifying section headings subsections code changes and coding alerts easier Color coded symbol directs you to the exact issue of CPT Assistant the AMA s premier coding newsletter or CPT Changes publications that contain in depth information you need to code accurately

**Medicare and Medicaid Guide ,1969 2004 Cpt Std**

**Softbound Edition** American Medical Association,Ingenix,2003-10 Easy to use and easy to read this 2004 edition of the AMA s Current Procedural Terminology official coding reference contains new code changes and other updates to help you code quickly accurately and easily

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