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Autore	Chasin Marshall
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Nota di contenuto	1 Hearing Loss Prevention for Musicians and Introduction to the Problem BY MARSHALL CHASIN INDUSTRIAL NOISE AND MUSIC Music and industrial noise have many similarities and some interesting differences. Depending on the musical instrument, the spectral shape and concentration of energy can be quite similar to those of an industrial noise spectrum. This is true of stringed, vocal, brass, and woodwind instruments. It is not true, however, of percussive instruments such as the drums or cymbals- 2 Overview of Anatomy and Physiology of the Peripheral Auditory System BY RICHARD J. SALVI, EDWARD LOBARINAS, AND WEI SUN Musicians possess a remarkable array of instruments and vocal styles that can appeal to diverse musical interests ranging from classical and operatic on the one hand to jazz, rock, and rap at the other end of the continuum. Regardless of the musical proclivity of the listener, the melodies, consisting of sound waves, must be transferred from the external ear through the mid 3 The Medical Aspects of Otologic Damage from Noise in Musicians BY KENNETH EINHORN Every day in the United States, an otolaryngologist encounters a patient with hearing loss that is caused in part or in whole by loud noise exposure. Approximately 10 million Americans suffer

from hearing loss attributed to damage from excessive noise exposure (National Institutes of Health [NIH], 1990). The physician is also familiar with some (but maybe not all) of the other adverse medical conditions that ca

4 Tinnitus, Hyperacusis, and Music BY RICHARD S. TYLER, SON-A CHANG, PAN TAO, STEPHANIE GOGEL, AND ANNE K. GEHRINGER WHAT IS TINNITUS? Tinnitus is the perception of sound in the absence of an external sound. It is commonly associated with noise induced hearing loss. There are two broad types of tinnitus. Middle-ear tinnitus is a result of abnormal blood vessels or muscle twitching in the middle ear cavity behind the eardrum. Sensorineural tinnitus involves the cochlea and/or auditory nervous s

5 Do Headphones Cause Hearing Loss? Risk of Music Induced Hearing Loss for the Music Consumer BY BRIAN J. FLIGOR NATURE OF THE PROBLEM Increasing population densities and human encroachment in previously uninhabited areas have served to continually increase sound levels in society. Noise is now virtually everywhere. According to Berger (2003), 40% of the European community is continuously exposed to transportation noise of 55 dBA (similar to a normal voice in the background) and 20% are expose

6 Uniform Hearing Protection for Musicians BY PATRICIA A. NIQUETTE INTRODUCTION Use of hearing protection by musicians and music industry professionals can dramatically reduce auditory risk

Sommario/riassunto

The editor and contributors are all experts in their relative fields and work daily with professionals in the performing arts who are endangered by exposure to high-volume sound. Here they clearly present some of the anatomy and physiology of the hearing mechanism; medical problems associated with exposure to long-term, high volume sounds in the musical environment; and, in the bulk of the book, hearing protection and practical advice on preventive measures.