## Protect Your Hearing Everyday

# Information and Recommendations for Student Musicians

Version for Customization

National Association of Bools of Music Performing Arts Medicine Association

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### Protect Your Hearing Everyday

#### Introduction

Welcome to the Music Department at Towson University.

In working toward a degree in music, you are joining a profession with a long and honored history. Part of the role of any profession in the best condition to practice the profession.

For all of you, as aspiring musicians, this involves safeguarding your hearing health. Whatever your plans after graduation whether they involve playing, teaching, engineering, or simply enjoying music you owe it to yourself and your fellow musicians to do all you can to protect your hearing.

As you may know, certain behaviors and youreexposertain sounds can, over time, damage your hearing.

You may be young now, but you re never too young for the onset of hearing loss. In fact, in mos cases, noise-related hearing loss doesn t develop overnight. (Well, some does, but we Il address that issue later in thismetentu) But the majority of noise-induced hearing loss happens gradually.

So the next time you find yourself blasting music through those tiny earbuds of your iPod or turning up the volume on your amp, ask yourself, Am I going to regret this someday? You never know; you just might. And as a musician, you cannot afford to risk it.

The bottom line is this: If you re serious about pursuing a career in music, you need to protect your hearing. The way you hear music, the way you recognize and differentiate pitch, the way you play music; all are directly connected to your hearing. Do yourself a favor: protect it. I promise you won t regret it.

#### Disclaimer

The information in this document is genedicisantly in nature. It is not a substitute for professional, medical judgments. It should not be used as a basis for medical treatment. If you ar concerned about your hearing or think yowensay flaged hearing loss, consult a licensed medical professional.

To make an appointment to speak with edical professional at the Towson University Speech, Language and Hearing Center call 410-704-3095.

Purpose of this Resource Document

The purpose of this document is to share switche information on hearing health and hearing loss and let you know about the prescance is that all of us should practice daily.

Music and Noise

This paper addresses what is termed noisse-imetaring loss. You may be wondering why we re referring to music this beautiful form of art and self-expression as

Here s why: What we know about hearing health

The inner ear, also known as the ciscle where most hearing-loss-related ear damage tends to occur. Inside the coard tends to the brain. When a loud noise enters the inner ear,

2. The closer you are to the source of a late goisster the risk that you II experience some damage to your hearing mechanisms.

At this point, it helps to have some frame of reference. How loud are certain noises? Consider these common sounds, the proceding sdecibel levels, and the recommended maximum exposure times established by the Mastitute for Occupational Safety and Health (NIOSH), a branch of the Centers for Disease Control and Prevention (CDC).

Sound	Intensity (dB)	Maximum Recommended Exposure (approx.)*
A Whisper	30	Safe, No maximum
Rainfall (moderate)	50	Safe, No maximum
Conversation (average)	60	Safe, No maximum
Freeway Traffic	70	Safe, No maximum
Alarm Clock	80	Safe, No maximum
	85	Potential Damage Threshold
Blender, Blow dryer	90	2 hours
MP3 Player (full		

**FACT**: More than 30 million Americans expansethes to hazardous sound levels on a regular basis.

Musicians and Noise-Induced Hearing Loss

Nowadays, more and more is being written about the sound levels of certain musical groups. It is no secret that many rock concerts exposes period and ences to dangerously high levels of noise. The ringing in your ears after a blaring rock concert can tell you that. But now professions and college music ensembles are under similar scrutiny.

Take for instance a typical practice session are the instrument over a limited period of timed descel meter fluctuates between a reading of 60 and 70 decibels. That s similar in interpointy are age conversation (60dB). There will, of course, be moments when the music peaks and this level rises. But these moments are not sustained over several hours. At least not under normal practice conditions.

While the same is true for most instrumien portains to understand that certain instrumental sections tend to produce higher levels. Sometimes these levels relate to the piece of music being performed and to notational require instrument.

The same is true for most instrument to understand that certain instrumental sections that certain instrumental that certain instrumental to understand that certain instrumental sections that certa

For example, string sections tend to produce decibel levels on the lower end of the spectrum, while brass, percussion, and woodwind sections generally produce decibel levels at the higher end of the spectrum.

What s important is that you are mindfowerfaltheolume of your instrument and of those around you. If you re concerned about volument would concern with your instructor.

**FACT**: Approximately 50% of musicians have experienced some degree of hearing loss.

#### Mindful Listening

Now, let s talk about how you can be probe thivit comes to music and hearing loss.

It is important to think about the impact noise can have on your hearing health when you:

- 1. Attend concerts;
- 2. Play your instrument;
- 3. Adjust the volume of your car stereo;
- 4. Listen to your radio, CD player, and MP3 player.

Here are some simple waysstoif the music is too loud:

It s too loud (and too dangerous) when:

1. You have to raise your voice to be heard.

#### Resources Information and Research

#### <u>Hearing Health Project Partners</u>

National Association of School of Music (NASM) <a href="http://nasm.arts-accred">http://nasm.arts-accred</a>it.org/

Performing Arts Medicine Association (PAMA) <a href="http://www.artsmed.org/index.html">http://www.artsmed.org/index.html</a>

PAMA Bibliography (search tool) <a href="http://www.artsmed.org/bibliography.html">http://www.artsmed.org/bibliography.html</a>

#### **General Information on Acoustics**

Acoustical Society of Americal Society of American Society of Amer

Acoustics.conht(tp://www.acoustic).com

Acoustics for Performance, Rehearsal, and Practice Facilities Available for purchase through the NASM Web site National Institute on Deafness and Othern@artion Disorders Noise-Induced Hearing Loss <a href="http://www.nidcd.nih.gov/health/hearing/n">http://www.nidcd.nih.gov/health/hearing/n</a>) ise.html

#### Other Organizations Focused on Hearing Health

Dangerous Decibelst (p://www.dangerousdecibels.org

Musicians Clinics of Canada (http://www.musiciansclinics.co)n/home.asp

National Hearing Conservation Assoc(attom//www.hearingconservation.org/