

Protecting Your Hearing Health

A NASM – PAMA Student Information Sheet

- **Hearing health is essential to your lifelong success as a musician.**
- **Your hearing can be permanently damaged by loud sounds**, including music. Technically, this is called Noise-Induced Hearing Loss (NIHL). Such danger is constant.
- **Noise-induced hearing loss is generally preventable.** You must avoid overexposure to loud sounds, especially for long periods of time.
- The closer you are to the source of a loud sound, the greater the risk of damage to your hearing mechanisms.
- Sounds over 85 dB (your typical vacuum cleaner) in intensity pose the greatest risk to your hearing.
- Risk of hearing loss is based on a combination of sound or loudness intensity and duration.
- Recommended maximum daily exposure times (NIOSH) to sounds at or above 85 dB are as follows:
 - 85 dB (vacuum cleaner, MP3 player at 1/3 volume) – 8 hours
 - 90 dB (blender, hair dryer) – 2 hours
 - 94 dB (MP3 player ½ volume) – 1 hour
 - 100 dB (MP3 player at full volume, lawnmower) – 15 minutes
 - 110 dB (rock concert, power tools) – 2 minutes
 - 120 dB (jet planes at take-off) – without ear protection, sound damage is almost immediate
- Certain behaviors (controlling volume levels in practice and rehearsal, avoiding noisy environments, turning down the volume) reduce your risk of hearing loss. Be mindful of using MP3 earbuds in light of the MP3 information given above.
- The use of earplugs and earmuffs helps to protect your hearing health.
- Day-to-day decisions can impact your hearing health, both now and in the future. Since sound exposure occurs in and out of school, you also need to learn more and take care of your own hearing health on a daily, even hourly basis.
- It is important to follow basic hearing health guidelines.
- It is also important to study this issue and learn more.
- If you are concerned about your personal hearing health, talk with a medical professional.

- If you are concerned about your hearing health in relationship to your program of study, consult the appropriate contact person at your institution.
- This information is provided by the National Association of Schools of Music (NASM) and the Performing Arts Medicine Association (PAMA). For more information, check out the other NASM – PAMA hearing health documents, located on the NASM Web site at the URL linked below. http://nasm.arts-accredit.org/index.jsp?page=NASM-PAMA_Hearing_Health

Protecting Your Hearing Health: Student Information Sheet on Noise-Induced Hearing Loss NASM/PAMA:
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Protecting Your Vocal Health

A NASM – PAMA Student Information Sheet

- Vocal health is important for all musicians and essential to lifelong success for singers.
- Understanding basic care of the voice is essential for musicians who speak, sing, and rehearse or teach others.
- Practicing, rehearsing, and performing music is physically demanding.
- Musicians are susceptible to numerous vocal disorders.
- Many vocal disorders and conditions are preventable and/or treatable.
- Sufficient warm-up time is important.
- Begin warming up mid-range, and then slowly work outward to vocal pitch extremes.
- Proper alignment, adequate breath support, and correct physical technique are essential.
- Regular breaks during practice and rehearsal are vital in order to prevent undue physical or vocal stress and strain.
- It is important to set a reasonable limit on the amount of time that you will practice in a day.
- Avoid sudden increases in practice times.
- Know your voice and its limits, and avoid overdoing it or misusing it.
- Maintain health habits. Safeguard your physical and mental health.
- Drink plenty of water in order to keep your vocal folds adequately lubricated. Limit your use of alcohol, and avoid smoking.
- Day-to-day decisions can impact your vocal health, both now and in the future. Since vocal strain and a myriad of other injuries can occur in and out of school, you also need to learn more and take care of your own vocal health on a daily basis. Avoid shouting, screaming, or other strenuous vocal use.
- If you are concerned about your personal vocal health, talk with medical professional.
- If you are concerned about your vocal health in relationship to your program of study, consult the appropriate contact person at your institution.
- This information is provided by the National Association of Schools of Music (NASM) and the Performing Arts Medicine Association (PAMA). For more information, check out the other NASM-PAMA neuromusculoskeletal health documents, located on the MASM Web site at the URL linked below. <http://name.arts-accredit.org/index.jsp?page=NASM-PAMA:%20Neuromusculoskeletal%20and%20Vocal%20Health>
- See also the NASM/PAMA Student Information Sheet on “Protecting Your Neuromusculoskeletal Health.” Vocal health is an aspect of neuromusculoskeletal health.

Protecting Your Neuromusculoskeletal Health

A NASM – PAMA Student Information Sheet

- Neuromusculoskeletal health is essential to your lifelong success as a musician.
- Practicing and performing music is physically demanding.
- Musicians are susceptible to numerous neuromusculoskeletal disorders.
- Some musculoskeletal disorders are related to behavior; others are genetic; still others are the result of trauma or injury. Some genetic conditions can increase a person's risk of developing certain behavior-related neuromusculoskeletal disorders.
- Many neuromusculoskeletal disorders and conditions are preventable and/or treatable.
- Sufficient physical and musical warm-up time is important.
- Proper body alignments and correct physical technique are essential.
- Regular breaks during practice and rehearsal are vital in order to prevent undue physical stress and strain.
- It is important to set a reasonable limit on the amount of time that you will practice in a day.
- Avoid sudden increases in practice times.
- Know your body and its limits, and avoid “overdoing” it.
- Maintain healthy habits. Safeguard your physical and mental health.
- Day-to-day decisions can impact your neuromusculoskeletal health, both now and in the future. Since muscle and joint strains and a myriad of other injuries can occur in and out of school, you also need to learn more and take care of your own neuromusculoskeletal health on a daily basis, particularly with regard to your performing medium and area of specialization.
- If you are concerned about your personal neuromusculoskeletal health in relationship to your program of study, consult the appropriate contact person at your institution.
- This information is provided by the National Association of Schools of Music (NASM) and the Performing Arts Medicine Association (PAMA). For more information, check out the other NASM-PAMA neuromusculoskeletal health documents, located on the NASM Web site at the URL linked below. <http://nasm.arts-accredit.org/index.jsp?page=NASM-PAMA%3A+Neuromusculoskeletal+and+Vocal+Health>
- See also the NASM/PAMA Student Information Sheet on “Protecting Your Vocal Health.” Vocal health is an aspect of neuromusculoskeletal health.