

# Going Beyond Hearing Aids with LACE

## What else can I do to improve my communication skills?

The University of Michigan Health System offers LACE Auditory Training Programs. LACE stands for Listening and Communication Enhancement. LACE® is a self-directed computer-based auditory training program. Just as physical therapy can help rebuild muscles and adjust movements to compensate for physical weakness or injury, LACE® will help you develop skills and strategies to deal with situations when hearing is inadequate. LACE® does not compensate for a hearing loss (like hearing aids do) but instead helps to improve your listening skills. In summary, your hearing aids are designed to focus on your ears, LACE® is designed to focus on your brain.



## Where does LACE® come from?

LACE® was developed by audiologists at the University of California at San Francisco. Several research studies have demonstrated the benefits of LACE®. (see references below).

## What does LACE® Involve?

LACE® involves completing twenty-minute training sessions for 10-20 days. The number of days varies depending on the version of the software used. It involves practice listening to speech in noise, understanding rapid speakers, understanding when competing speakers are present, word memory and practice filling in "missing words." The software also covers various practical strategies that can be used to optimize communication. Some versions of the software can send your results directly to your audiologist using secure HIPAA

compliant software. The software is available as a CD-ROM, a software download, DVD, or an Online Version. Your audiologist can discuss the different versions of the software.

### **How much does LACE® cost?**

The lace software is typically less than \$100. Prices differ depending on the version you select. This is typically a fraction of what a person will invest in personal hearing aids.

### **Where can I find more information?**

[www.neurotone.com](http://www.neurotone.com) or ask your UofM Audiologist (734) 998-7216

#### References:

- Henderson Sabes, J., & Sweetow, R. W. (2007). Variables predicting outcomes on listening and communication enhancement (LACE™) training. *International Journal of Audiology, 46*(7), 374-383.
- Sweetow, R. W., & Sabes, J. H. (2006). The need for and development of an adaptive listening and communication enhancement (LACE™) program. *Journal of the American Academy of Audiology, 17*(8), 538-558.
- Song, J. H., Skoe, E., Banai, K., & Kraus, N. (2011). Training to improve hearing speech in noise: biological mechanisms. *Cerebral Cortex*, bhr196.

LACE® is a registered trademark of Neurotone, Inc

Disclaimer: This document contains information and/or instructional materials developed by the University of Michigan Health System (UMHS) for the typical patient with your condition. It may include links to online content that was not created by UMHS and for which UMHS does not assume responsibility. It does not replace medical advice from your health care provider because your experience may differ from that of the typical patient. Talk to your health care provider if you have any questions about this document, your condition or your treatment plan.

Patient Education by [University of Michigan Health System](http://www.umhs.org) is licensed under a [Creative Commons Attribution-NonCommercial-ShareAlike 3.0 Unported License](https://creativecommons.org/licenses/by-nc-sa/3.0/). Last Revised 2/2015