

Neuroaudiology Newsletter

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Publication Date:
July 1, 2016

Auditory Processing Disorder in ICD-11

As most of you know, **Central Auditory Processing Disorder** is included in the USA version of the **ICD-10** (H93.25 listed under ear disease). CAPD is not included in the European version of the ICD-10; however, a proposal has been offered to include it in the **ICD-11**! You can support the effort to include CAPD/APD in ICD-11 by creating an account at the following link:

<http://apps.who.int/classifications/icd11/browse/Account/Login?ReturnUrl=%2Fclassifications%2Ficd11%2Fbrowse%2Fproposals%2Ff%2Fen#/http://id.who.int/icd/entity/1218729044?readOnly=true&action=AddNewEntityProposal&stableProposalGroupId=86ed85cb-dfd1-421b-8b05-af8f9fd075ba>

Look under diseases of the ear and agree/disagree/comment on the existing proposal submitted by Dr. Vivian Iliadou. The inclusion of **CAPD** in the USA version of the ICD-10 is a great move in the right direction for the field and for our patients, lets help Europe move in the same direction for **CAPD**!

Dr. Musiek's Neuroaudiology Lab Video

The University of Arizona's Neuroaudiology Lab has gone viral! Check out the video to meet our team and find out what our lab is all about. This video can be accessed on YouTube and on the University of Arizona Speech, Language, and Hearing Sciences website:

- <https://www.youtube.com/watch?v=VwHY6XvkPVE>
- <http://slhs.arizona.edu/research>

Upcoming Book Release!

The second edition of "**The Auditory System: It's Anatomy, Physiology, and Clinical Correlates**" (Musiek and Baran) is undergoing an update and will include several major additions. This book will be available through **Plural Publishers** next year!



Did you know?....

Approximately 160 pediatric **hemispherectomies** are performed every year. Unfortunately, many of these children are **not evaluated audiologically** and even fewer undergo serious central auditory evaluations. These children often have audiological symptoms but **normal pure tone audiograms**. Many children with a hemispherectomy do show marked deficits in **dichotic listening**, hearing speech in noise, and in localization procedures. Some children however, show minimal deficits which is likely related to plasticity issues as well as age at the time of surgery, neurological status before and after surgery, duration of time after surgery, communication level and any related therapy. This indeed is a population that is growing in numbers and are in need of further research and **clinical intervention** along audiological lines.

Saying Goodbye to our PostDoc

The Neuroaudiology Lab at The University of Arizona unfortunately had to say goodbye to our amazing Post-Doctoral student, Renata Filippini. Renata has returned to her home University, University of São Paulo, Brazil, after a year of research with **Dr. Frank Musiek**. The following are Renata's final farewells:



"I don't think one is ever prepared to the challenges and changes that will take place when choosing the experience of studying abroad. After a full academic year at the **University of Arizona** working a post-doctoral research under guidance of **Dr. Frank Musiek** at the **Neuroaudiology Lab**, I can safely say that my career has taken a turn to the better. During this time, I was able to deepen and broaden my knowledge on the intricacies of the **central auditory processing**, and had the chance to be in contact with other lines of research, other ways to organize a laboratory, other methods of teaching and learning. Most certainly, I'll be going back to **Brazil** with not only hours and hours of reading and writing, and research and teaching experience, but also with a new and balanced way of working. I could never do that without **Dr. Musiek's** support, advising and sharing of knowledge, without which all of this experience would've been an empty one. Learning from the best is always the best way of learning!

Also, I could not go without acknowledging everyone from my new **UA family**! All my lab mates, the students, professors and staff that had received me with open arms and made my adaptation a little smoother. I'll have them all in my mind and heart for now on, and I hope I had touched their lives and contributed to their learning and careers like they did for mine.

I leave the warm and **beautiful Tucson** now, full of memories, learning and new friends in my luggage; and projects, ideas and expectations in my mind!

Thank you, **Dr. Musiek**, for giving me this opportunity and I hope we'll continue to work together!"
Tchau, Renata, vamos sentir sua falta!! (Goodbye Renata, we will miss you!)

Upcoming Conferences 2016-2017

CAPD and Pediatric Hemispherectomy @ the Hemispherectomy Conference and Family Reunion

When and Where? July 9, 2016 at the Omni Interlocken Hotel in Broomfield, Colorado

Why? **Dr. Musiek** presenting "Hearing after Hemispherectomy: Why a Single Hemisphere has Trouble **Processing Sounds** and Words."

33rd World Congress of Audiology

When and Where? September 18-21, 2016 at the Sheraton Wall Centre Hotel in Vancouver, Canada.

Why? **Jos Eggermont** presenting "Animal Models of **Auditory Processing Disorders.**" **Frank Musiek** presenting "The Vertebro-Basilar System: Neuroanatomical and Neuroaudiological Correlates." **Nina Kraus** presenting "Unifying Audiology, Speech, Language, and Learning Through **Auditory Processing:** Biological Insights."

Oregon Academy of Audiology

When and Where? October 7-9, 2016 at the Oregon Convention Center in Portland, Oregon.

ASHA Convention

When and Where? November 17-19, 2016 at the Pennsylvania Convention Center in Philadelphia, Pennsylvania.

AudiologyNOW!

When and Where? April 5-8, 2017 in Indianapolis, Indiana.

Association of Research in Otolaryngology

When and Where? February, 2017 in Baltimore Maryland.

American Auditory Society 44h Annual Scientific and Technology Conference

When and Where? March 2-4, 2017 at the Chaparral Suites Scottsdale in Scottsdale, Arizona.

Did you know?....

Layer I of the brain, the most superficial layer, develops first followed by layers IV-VI and finally layers II and III.

Did you know?....

The prevalence of developmental dyslexia in the general population may be estimated to be between 3 to 17%, with this wide prevalence range being largely driven by varying definitions of the term dyslexia. Dyslexia study groups agree there is not a universal definition of dyslexia and that one is needed. As was noted at the ARC at AAA this past spring, dyslexia has many audiological correlates often showing deficits on a variety of central auditory tests. More audiologists need to become aware of their probable role in helping diagnose and treat this common reading disorder that might well have an auditory basis.

Recent Articles of Interest

Effects of Age and Working Memory Capacity on Speech Recognition Performance in Noise Among Listeners with Normal Hearing

S. Gordon-Salant & S. S. Cole

Journal: Ear and Hearing

Effects of Aging and Adult-Onset Hearing Loss on Cortical Auditory Regions

V. Cardin

Journal: Frontiers in Neuroscience

Past Neuroaudiology Newsletters/Other Important Neuroaudiology Sites

- **March 2015 Newsletter:**
<http://hearinghealthmatters.org/pathways/files/2015/05/pathways-neuroaudiology-newsletter-march.pdf>
- **May 2015 Newsletter:** <http://hearinghealthmatters.org/pathways/files/2015/05/pathways-may-newsletter3.pdf>
- **July 2015 Newsletter:** <http://hearinghealthmatters.org/pathways/files/2015/07/pathways-newsletter-july-2015.pdf>
- **September 2015 Newsletter:**
<http://hearinghealthmatters.org/pathways/files/2015/09/pathways-newsletter-sept-2015.pdf>
- **November 2015 Newsletter:**
<http://hearinghealthmatters.org/pathways/files/2015/11/pathways-newsletter-nov-2015.pdf>
- **January 2016 Newsletter:**
<http://hearinghealthmatters.org/pathways/files/2016/01/pathways-newsletter-jan-2016.pdf>
- **March 2016 Newsletter:** <http://hearinghealthmatters.org/pathways/files/2016/03/pathways-newsletter-march-2016.pdf>
- **May 2016 Newsletter:** <http://hearinghealthmatters.org/pathways/files/2016/05/pathways-neuroaudiology-newsletter-may-2016.pdf>
- <http://music.faculty.arizona.edu/>