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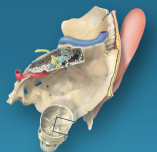
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Sincerely,

Lawrence R. Lustig, MD  
Editor-in-Chief

Robert S. Hong, MD, PhD  
Social Media Editor

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## Current Issue

### December 2017 - Volume 38 - Issue 10



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Interested authors should submit their research to:  
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## Featured Articles

### Do Measurements of Inner Ear Structures Help in the Diagnosis of Inner Ear Malformations? A Review of Literature

D'Arco, Felice; Talenti, Giacomo; Lakshmanan, Rahul; [More](#)  
**Otology & Neurotology.** 38(10):e384-e392, December 2017.

 [Abstract](#)



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### Effectiveness in Rehabilitation of Current Wireless CROS Technology in Experienced Bone-Anchored Implant Users

Snapp, Hillary A.; Hoffer, Michael E.; Liu, Xuezhong; [More](#)  
**Otology & Neurotology.** 38(10):1397-1404, December 2017.

 [Abstract](#)

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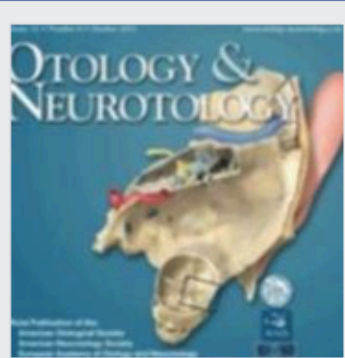
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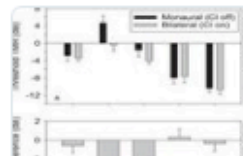
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Current Issue: Head Shadow and Binaural Squelch for Unilaterally Deaf Cochlear Implantees




### Head Shadow and Binaural Squelch for Unilaterally...

tigation was to determine whether CI listeners with normal hearing or moderate hearing loss in the contralateral ear would receive a larger head shadow



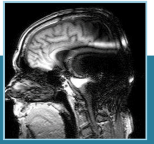
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### Pain Free 3 T MRI Scan in Cochlear Implantees



Cochlear implant with rotatable, diametric internal magnet

changes position relative to applied external magnetic field




- All patients (n=5) without pain during MRI
- No magnet-supporting headband needed
- Demagnetization not clinically observed
- Limitations of MRI artifact persist

Todd et al., *Otol Neurotol*. Dec 2017  
www.otology-neurotology.com

### Audiometric Outcomes Following Endoscopic Ossicular Chain Reconstruction

Retrospective Case Series  
Follow-up > 6 months postop

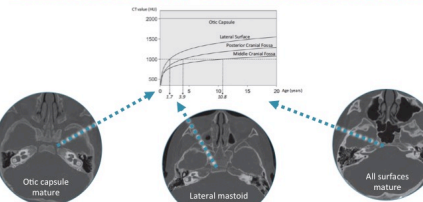


PORP (n = 23): ABG = 13.8 dB TORP (n = 8): ABG = 15.9 dB	PORP (n = 19): ABG = 16.7 dB TORP (n = 12): ABG = 17.2 dB
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ABG = air-bone gap

Yawn et al., *Otol Neurotol*. Oct. 2017  
www.otology-neurotology.com


### Bone Density Development of the Temporal Bone Assessed by Computed Tomography



Regional differences in temporal bone maturation may influence differences in spreading pattern of acute mastoiditis in individuals of different ages.

Takahashi et al., *Otol Neurotol*. Dec. 2017  
www.otology-neurotology.com

### Cochlear Implant Associated Labyrinthitis: A Previously Unrecognized Phenomenon With a Distinct Clinical and Electrophysiological Impedance Pattern



Retrospective review (N = 5)


“Labyrinthitis” occurs months to years after cochlear implantation

- Acute onset of dizziness
- Subjective performance deterioration
- Erratic impedance pattern

All patients reported improvement in symptoms and stabilization of electrode impedances

Itayem et al., *Otol Neurotol*. Dec 2017  
www.otology-neurotology.com

### The Growing- and Now Alarming- Burden of Hearing Loss Worldwide




“Half a billion people now suffer from disabling hearing loss (pure tone average of 35 dB or worse) worldwide.”

“Hearing loss is now the fourth leading cause of years lived with disability (YLDs) worldwide.”

Tucci et al., *Otol Neurotol*. Dec 2017 (editorial)  
www.otology-neurotology.com


### The Seasonal Variation of Benign Paroxysmal Positional Vertigo

Incidence of BPPV (N = 339; retrospective review)



January to June (low serum vitamin D)

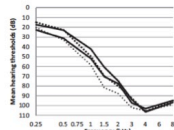
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July to December (high serum vitamin D)

Meghji et al., *Otol Neurotol*. Oct. 2017  
www.otology-neurotology.com

### Decline of Low-Frequency Hearing in People With Ski-Slope Hearing Loss: Implications for Electrode Array Insertion



N = 320 patients with ski-slope audiograms  
Average decline of PTA of 1.73 dB/yr

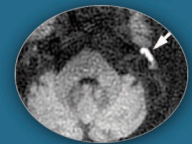
- More stable if etiology due to single or short-lasting event
- Faster decline if etiology due to long-lasting condition

Consider complete cochlear implant insertions for etiologies with faster deterioration of low-frequency hearing

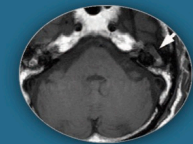
Schuurbiers et al., *Otol Neurotol*. Dec. 2017  
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### Value of T1-weighted Magnetic Resonance Imaging in Cholesteatoma Detection

Imaging criteria for cholesteatoma



High non-echo planar diffusion weighted signal



Low T1-weighted signal

N = 57 ears suspected of cholesteatoma (retrospective review)

- Non-EP DW alone: sensitivity = 93.5%; specificity = 63.6%
- Non-EP DW + T1W: sensitivity = 89.1%; specificity = 100%

Fukuda et al., *Otol Neurotol*. Dec. 2017  
www.otology-neurotology.com