

**Arnaud Devèze, MD, PhD,**  
**Associate Professor in Otolaryngology**  
**Otology & Skull Base Surgery**



## Affiliations

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## Position and Education

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- **Since June 2015:**
  - **Surgeon**, Ear and Skull Base Institute, Clairval Private Hospital, RGDS Group, Marseille, France
  - **Director of Research**, Biomechanics of the Auditory System Experimental Platform, Laboratory of Applied Biomechanism, IFSTTAR UMR T24, Faculty Of Medicine, Marseille, France.
  - **Consultant & Surgeon**, Department of ORL & Auditory Implants, Lyon, France.
- **September 2009 – May 2015:** Associate Professor, Department of Otolaryngology and Skull Base Surgery, Pr J. Magnan, Marseille, France
- **Mai 2009 – September 2009 :** PHD Researcher in the Laboratory of Physiology and Biophysics, University of Colorado Denver, USA & Dept of Otolaryngology, UCD, Denver, USA.
- **November 2004 – Mai 2009 :** Fellow in the Department of Otolaryngology and Skull Base Surgery , Pr J. Magnan, Marseille, France
- **September 5<sup>th</sup> – December 5<sup>th</sup>, 2005:** Fellowship in the Department of Otolaryngology, Pr J.P. Bébéar – Pr V. Darrouzet. Bordeaux, France.
- **November 1998 - November 2004:** Residency in ENT and Head & Neck Surgery.
- **November 2002 – November 2003:** Master of Science. Grant from the National Health Ministry. *M. Sc.* with Honours, Sciences of Speech and Language.
- **1992-1998:** Medical School, Marseille University of Medicine.

## Graduation

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- **March 2015 –** Director of Research National Habilitation. Faculty of Science. French Ministry of Research.
- **June 2010 –** PhD in Neurosciences : Biomechanism of the middle ear applied to middle ear implantation.

- **October 2004** – Graduation (MD) in Oto-rhino-laryngology and Head-Neck Surgery.
- **October 2003** – M. Sc. with Honours. Aix-en-Provence University of Science.
- **October 2002** – Graduation in Medical and Biological Sciences. Marseille University of Medicine.
- **October 2002** – Graduation in Medical Bioethic. Marseille University of Medicine.
- **November 2001** – Graduation in Facial Plastic and Reconstructive Surgery, Lyon University of Medicine, France.
- **October 1995** – Graduation in Medical Genetic. Marseille University of Medicine, France.

### Topics of Interest

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- *Endoscopic and minimally invasive surgery of the CP angle and the skull base.*
- *Otology and neuro-otology:* Treatment of Deafness, dizziness and vertigo, facial nerve palsy; Hemifacial spasm and neurovascular conflicts.
- *Auditory implants:* middle ear, cochlear and brainstem implantations.
- *Skull base surgery:* Acoustic schwannomas, Paragangliomas, and others CPA and skull base tumors. Anterior skull base surgery through endoscopic approach.
- *Facial plastic and reconstructive surgery:* facial palsy rehabilitation.

### Institutional Involvement

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- **Since 2006** : *Elected Member of the Scientific Committee of the Faculty of Medicine of Marseille.*
- **2006-2009** : *Member of the **Marseilles' Fellow Trade Union.***
- **2006** : *Elected Member of the **Medical Council** of the Assistance Publique Hôpitaux de Marseille.*
- **2009-** : *Member of the **Marseilles' Associate Professor Trade Union.***
- **2011-**: *Member of the French National University ORL Council*

### Memberships

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- **French Society of ORL.**
- **European Academy of Otology and Neurotology** (*Working Group on the Consensus of Acoustic Implants*)
- **2015:** *Elected Member of the Board of the International Politzer Society*
- **2018:** *Funding Member of the Vestibular Academy International*

### Reviewing

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- *“European Archives of ORL”,*
- *“European Surgical Research”,*
- *“European Annals of ORL and HNS”,*
- *“Clinical Anatomy”,*
- *“Lancet Infectious Disease”,*
- *“Acta Otolaryngologica”.*

## Organisation of Meetings

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- **III° Consensus Meeting on Auditory Implants.** Marseille, June 2007.
- **II° International Meeting of the European Academy of ORL & HNS.** Nice, April 2013.
- **World Congress of ORL. IFOS 2017, Paris, France.** Member of the Technology and Communication Organisation Group.

## Publications summary

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- 80 written publications and book chapter
- More than 150 oral or printed communications
- h-index : 13
- **Patent and development**

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- Self Retaining Speculum for transcanal middle ear surgery. Medtronic™, MicroFrance – MCO981D (Ref. 201003MF).
  - Self Retaining Speculum for endoscopic middle ear surgery. Version 2. Integra Surgical.
  - Councelling the French start-up Biomodex to develop a 3D-printed synthetic temporal bone for training in cochlear and hearing implants.
  - Developping a 3D printed model of ear canal for resarcher in acoustic waves propagation
  - Developping a Virtual Reality Environment programm for training in vestibulart disease and vertigo rehabilitation.

## Publications (English)

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1. Braccini F, **Devèze A**, Paris J, Chrestian MA, Thomassin JM. Hemangioma of the facial nerve. Acta Biomed Ateneo Parmense. 2000;71:35-42.
2. Henry JF, Iacobone M, Mirallie E, **Devèze A**, Pili S. Indications and results of video-assisted parathyroidectomy by a lateral approach in patients with primary hyperparathyroidism. Surgery. 2001;130:999-1004. (IF 2,6)
3. **Devèze A**, Sebag F, Hubbard J, Jaunay M, Maweja S, Henry JF. Identification of patients with a non-recurrent inferior laryngeal nerve by duplex ultrasound of the brachiocephalic artery. Surg Radiol Anat. 2003;25:263-9. (IF 0,3)
4. **Devèze A**, Facon F, Latil G, Moulin G, Payan-Cassin H, Dessi P. Cavernous Sinus Thrombosis Secondary To Non-invasive Sphenoid Aspergillois. Rhinology. 2005;43:152-5. (IF 0,6)
5. Miyazaki H, **Devèze A**, Magnan J. Neuro-otologic surgery through minimally invasive retrosigmoid approach: endoscope assisted microvascular decompression, vestibular neurectomy, and tumor removal. Laryngoscope. 2005;115:1612-7. (IF 1,6)

6. Magnan J, **Devèze A**, Miyazaki H, Berni Canani F. Cerebellopontine Angle Surgery by the Retrosigmoid Approach: Our Experience in Elderly Patients. *Med J Otol* 2005;1:01-10.
7. Lavieille JP, Delande C, Kunst H, **Devèze A**, Magnan J, Schmerber S. Management of carcinoma of the temporal bone. *Med J Otol* 2005;2:70-78.
8. Magnan J, El Garem H, **Devèze A**, Lavieille JP. The value of endoscopy in the surgical management of vertigo. *Med J Otol* 2006 ;2 :1-8.
9. **Devèze A**, Sebag F, Pili S, Henry JF. Parathyroid adenoma disclosed by a massive cervical hematoma. About two cases. *Otolaryngol - Head Neck Surg* 2006 ;134 :710-2. [\(IF 1,2\)](#)
10. **Devèze A**, Alimi Y, Tardivet L, Lavieille JP, Magnan J. Surgical Management of Lesions of the Internal Carotid Artery Using a Modified Fisch Type A Infratemporal Approach. *Otol Neurotol* 2007;28:94-99 [\(IF 1,3\)](#)
11. Venail F, Lavieille JP, Meller R, **Devèze A**, Tardivet L, Magnan J. New perspectives for middle ear implants: first results in otosclerosis with mixed hearing loss. *Laryngoscope*. 2007;117:552-5 [\(IF 1,6\)](#)
12. Donadieu E, Hamdi W, **Devèze A**, Lucciano M, Lavieille JP, Magnan J, Riva C. Improved cryosections and specific immunohistochemical methods for detecting hypoxia in mouse and rat cochleae. *Acta Histochem*. 2007;109:177-84 [\(IF 0,92\)](#)
13. **Devèze A**, Franco-Vidal V, Liguoro D, Guerin J, Darrouzet V. Transpetrosal approaches for meningiomas of the posterior aspect of the petrous bone. Results in 43 consecutive patients. *Clin Neurol Neurosurg*. 2007;109:578-88. [\(IF 1,6\)](#)
14. Guevara N, **Devèze A**, Buza V, Lafont B, Magnan J. Microvascular decompression of cochlear nerve for tinnitus incapacity : pre-surgical data, surgical analyses and long-term follow-up of 15 patients. *Eur Arch Otorhinolaryngol* 2008 ;265 :397-401. [\(IF 0,89\)](#)
15. Mavroidakos S, El Garem H, **Devèze A**, Vathilakis I, Magnan J. The value of vestibular neurectomy in the course of bilateral Meniere's disease. *Int Adv Otol* 2009 ;5 :62-69.
16. Rameh C, Lavieille JP, Magnan J, **Devèze A**. Post-traumatic pseudo-aneurysm of the sphenopalatine artery. *Arch Otolaryngol Head Neck Surg* 2009 ;136 :519, 520-1. [\(IF 1,4\)](#)
17. Elaini S, Rameh C, **Devèze A**, Magnan J. Anatomico-radiological correlations in neurovascular conflicts. *Int Adv Otol* 2009. S1.
18. Martin C, **Devèze A**, Richard C, Lefebvre PP, Decat M, Ibañez LG, Truy E, Mom T, Lavieille JP, Magnan J, Dubreuil C, Tringali S. European results with totally implantable carina placed on the round window: 2-year follow-up. *Otol Neurotol* 2009;30:1196-203. [\(IF 1,6\)](#)
19. Delorme B, Nivet E, Gaillard J, Häupl T, Ringe J, **Devèze A**, Magnan J, Sohier J, Khrestchatisky M, Roman FS, Charbord P, Sensebé L, Layrolle P, Féron F. The human nose harbours a niche of olfactory ecto-mesenchymal stem cells displaying neurogenic and osteogenic properties. *Stem Cells Dev* 2010 ; 19 :853-66. [\(IF 3,3\)](#)

20. **Deveze A**, Rameh C, Puchol MS, Lafont B, Lavieille JP, Magnan J. Rehabilitation of canal wall down mastoidectomy using a titanium ear canal implant. *Otol Neurotol*. 2010;31:220-4. (IF 1,6)
21. Tringali S, Koka K, **Deveze A**, Holland NJ, Jenkins HA, Tollin DJ. Round Window Membrane Implantation with an Active Middle Ear Implant: A Study of the Effects on the Performance of Round Window Exposure and Transducer Tip Diameter in Human Cadaveric Temporal Bones. *Audiol Neurootol*. 2010;15:291-302. (IF 2,4)
22. **Deveze A**, Rameh C, Sanjuan M, Lavieille JP, Magnan J. A middle ear implant with a titanium canal wall prosthesis for a case of an open mastoid cavity. *Auris Nasus Larynx*. 2010 ; 37 :631-5. (IF 0,6)
23. Mimouni O, Sanjuan M, Giusiano S, Lavieille JP, Magnan J, **Deveze A**. Mucoepidermoid carcinoma arising from the middle ear. A rare histopathological condition. *Otol Neurotol* 2010 ;31 :858-60. (IF 1,6)
24. Rameh C, **Deveze A**, Lavieille JP, Magnan J, Sanjuan M. Accidental Removal of a Carotid Endovascular Stent during Oropharyngeal Mass Biopsy. *Int J Otolaryngol*. 2009;2009:378683. Epub 2010 Jan 4.
25. Yakoot A, Giusiano S, Sanjuan M, Mardassi A, Magnan J, **Devèze A**. An unusual cause of serous otitis media. *Eur Ann Otorhinolaryngol Head Neck Dis*. 2010;127:156-8. (IF=0,5)
26. **Devèze A**, Koka K, Tringali S, Jenkins HA, Tollin DJ. Active middle ear implant application in case of stapes fixation: a temporal bone study. *Otol Neurotol*. 2010;31:1027-34. (IF=1,6)
27. Venail F, **Deveze A**, Lallemand B, Guevara N, Mondain M. Enhancement of temporal bone anatomy learning with computer 3D rendered imaging software. *Med Teach*. 2010;32:e282-8. (IF=1,3)
28. Vincent R, Rovers M, Zingade N, Oates J, Sperling N, **Devèze A**, Grolman W. Revision stapedotomy: operative findings and hearing results. A prospective study of 652 cases from the Otolaryngology-Neurotology Database. *Otol Neurotol*. 2010;31:875-82. (IF=1,6)
29. Rameh C, Meller R, Lavieille JP, **Deveze A**, Magnan J. Long-Term Patient Satisfaction With Different Middle Ear Hearing Implants in Sensorineural Hearing Loss. *Otol Neurotol* 2010;31:883-92. (IF 1,6)
30. Lagier A, Sanjuan M, Lavieille JP, **Devèze A**. Pathomimia as an aetiology for chronic otitis. *Rev Laryngol Otol Rhinol (Bordeaux)* 2010;4-5 :313-315. (IF=0,5)
31. Tringali S, Koka K, **Deveze A**, Ferber AT, Jenkins HA, Tollin DJ. Intraoperative adjustments to optimize active middle ear implant performance. *Acta Otolaryngol*. 2011;131:27-35.
32. Charrier N, **Deveze A**, Fakhry N, Sebag F, Morange I, Gaborit B, Barlier A, Carmona E, De Micco C, Garcia S, Mancini J, Palazzo FF, Lavieille JP, Zanaret M, Henry JF, Mundler O, Taïeb D. Comparison of [<sup>111</sup>In]pentetrotide-SPECT and [<sup>18</sup>F]FDOPA-PET in the localization of extra-adrenal paragangliomas: the case for a patient-tailored use of nuclear imaging modalities. *Clin Endocrinol (Oxf)*. 2011;74:21-9. (IF=3,2)
33. Mardassi A, **Deveze A**, Sanjuan M, Mancini J, Parikh B, Elbedeiwy A, Magnan J, Lavieille JP. Titanium ossicular chain replacement prostheses: Prognostic factors and preliminary functional results. *Eur Ann Otorhinolaryngol Head Neck Dis*. 2011;12. [Epub ahead of print]. (IF= 0,5)

34. Nivet E, Vignes M, Girard SD, Pierrisnard C, Baril N, **Deveze A**, Magnan J, Lanté F, Khrestchatisky M, Féron F, Roman FS. Engraftment of human nasal olfactory stem cells restores neuroplasticity in mice. *J Clin Invest.* 2011;121:2808-20. (IF= 15,3)
35. Péruch P, Lopez C, Redon-Zouiteni C, Escoffier G, Zeitoun A, Sanjuan M, **Devèze A**, Magnan J, Borel L. Vestibular information is necessary for maintaining metric properties of representational space: evidence from mental imagery. *Neuropsychologia.* 2011;49:3136-44. (IF= 3,9)
36. Girard SD, **Devèze A**, Nivet E, Gepner B, Roman FS, Féron F. Isolating nasal olfactory stem cells from rodents or humans. *J Vis Exp.* 2011 ;22;(54). pii: 2762. ([article video](#) – plus de 25.000 consultations en octobre 2014).
37. Boone N, Bergon A, Loriod B, **Devèze A**, Nguyen C, Axelrod FB, Ibrahim el C. Genome-wide analysis of familial dysautonomia and kinetin target genes with patient olfactory ecto-mesenchymal stem cells. *Hum Mutat.* 2012;33:530-40. (IF= 5,9)
38. Montava M, **Deveze A**, Arnoux PJ, Bidal S, Brunet C, Lavieille JP. Petrous bone fracture: A virtual trauma analysis. *Otol Neurotol* 2012;33:651-4 (IF= 1,8).
39. Santini L, Achache M, Gomert R, Mardassi A, Lafont B, Magnan J, Lavieille JP, **Devèze A**. Transoral surgical treatment of eagle syndrome. Case Report and Review of Literature. *Rev Laryngol Otol Rhinol* 2012 ;133 :3 :1-4. (IF=0,5)
40. Gabriel S, Blanchet EM, Sebag F, Chen CC, Fakhry N, **Deveze A**, Barlier A, Morange I, Pacak K, Taïeb D. Functional characterization of non-metastatic paraganglioma and pheochromocytoma by (18) F-FDOPA PET: focus on missed lesions. *Clin Endocrinol (Oxf).* 2012 Dec 11. doi: 10.1111/cen.12126. (IF=3,168)
41. Achache M, Sanjuan Puchol M, Santini L, Lafont B, Cihanek M, Lavieille JP, **Devèze A**. Delayed pneumolabyrinth after undiagnosed perilymphatic fistula. A illustrative clinical case justifying a standardised management in an emergency setting. *Eur Ann Otorhinolaryngol Head Neck Dis.* 2013 Nov;130(5):283-7. (IF=0,5)
42. Saj A, Honoré J, Bernard-Demanze L, **Deveze A**, Magnan J, Borel L. Where is straight ahead to a patient with unilateral vestibular loss? *Cortex.* 2013 ;49:1219-28 (IF=7,25)
43. **Deveze A**, Koka K, Tringali S, Jenkins H, Tollin D. Techniques to Improve the Efficiency of a Middle Ear Implant: Effect of Different Methods of Coupling to the ossicular chain. *Otol and Neurotol.* 2013 ;34 :158-66. (IF=1,8)
44. Elaini S, Magnan J, **Deveze A**, Girard N. Magnetic resonance imaging criteria in vascular compression syndrome. *EJO* 2013 ;29 :10-15.
45. Tringali S, Dubreuil C, Berger P, **Devèze A**. Is there a future for Active Middle Ear Implant in 2013? Accepté pour publication dans *Eur Ann Otorhinolaryngol Head Neck Dis.* 2013 (IF=0,5)
46. Vincent N, Roche PH, **Deveze A**. An unusual and severe complication of skull base surgery. *Eur Ann Otorhinolaryngol Head Neck Dis* 2014 ;131:147-9. (IF=0,5)

47. **Deveze A**, Bernard-Demanze L, Xavier F, Lavieille JP, Elziere M. Vestibular compensation and vestibular rehabilitation. Current concepts and new trends. Clin Neurophysiol. In press. Available online 6 November 2013 - 10.1016/j.neucli.2013.10.138. (IF=2,55)
48. Borel L, Redon-Zouiteni C, Cauvin P, Dumitrescu M, **Devèze A**, Magnan J, Péruch P. Unilateral vestibular loss impairs external space representation. PLoS One. 2014 ;11;9:e88576. (IF=3,35)
49. Haidar H, **Deveze A**, Lavieille JP. Mini-invasive surgery of infratemporal fossa schwannomas. J Laryngol Otol. 2015 ; 8:1-7.
50. Razafimahefa Raelina T, Elziere M, Michel J, **Devèze A**. Intralabyrinthine penetrating ventilation tube with preservation of hearing. An unusual clinical situation. Accepté pour publication dans International Archives of Otorhinolaryngology. 2015.
51. Pascal S, **Devèze A**, Casanova D, Philandrianos C. Treatment of a mastoid defect by a free anterolateral thigh flap. Accepted pour publication dans Eur Ann Otorhinolaryngol Head Neck Dis 2016 ;1333 :195-8.
52. Debeaupte M, Decullier E, Tringali S, **Devèze A**, Mom T, Darrouzet V, Truy E. Evolution of the Reliability of the Fully Implantable Middle Ear Transducer Over Successive Generations. Otol Neurotol. 2015 Feb 11.
53. **Devèze A**, Rossetto S, Meller R, Sanjuan M. Switching from a percutaneous to a transcutaneous bone anchored hearing system: the utility of the fascia temporalis superficialis pedicled flap in case of skin intolerance. Accepted in Eur Arch ORL HNS. 2015
54. Deroualle D, Borel L, **Devèze A**, Lopez C. Changing perspective: The role of vestibular signals. Neuropsychologia. 2015 Dec;79(Pt B):175-85.
55. Barbut J, **Deveze A**, Masson C, Ogam E. Analysis of bone conducted sound over the cranial vault. Comput Methods Biomech Biomed Engin. 2015 Sep 11:1-2
56. **Devèze A**, Montava M, Lopez C, Lacour M, Magnan J, Borel L. Vestibular compensation following vestibular neurotomy. Eur Ann Otorhinolaryngol Head Neck Dis. 2015 Sep;132(4):197-203. doi: 10.1016/j.anorl.2015.04.003. Epub 2015 May 27. Review.
57. Féron F, Gepner B, Lacassagne E, Stephan D, Mesnage B, Blanchard MP, Boulanger N, Tardif C, **Devèze A**, Rousseau S, Suzuki K, Izpisua Belmonte JC, Khrestchatisky M, Nivet E, Erard-Garcia M. Olfactory stem cells reveal MOCOS as a new player in autism spectrum disorders. Mol Psychiatry. 2016 Sep;21(9):1215-24.
58. Lefebvre PP, Gisbert J, Cuda D, Tringali S, **Deveze A**. A Retrospective Multicentre Cohort Review of Patient Characteristics and Surgical Aspects versus the Long-Term Outcomes for Recipients of a Fully Implantable Active Middle Ear Implant. Audiol Neurootol. 2016;21(5):333-345.
59. Miyazaki H, Nomura Y, Mardassi A, **Deveze A**, Miura M, Jike M, Magnan J. How minimally invasive vestibular neurotomy for incapacitating Meniere's disease improves dizziness and anxiety. Acta Otolaryngol. 2017 Jul;137(7):707-711.

60. Elzière M, **Devèze A**, Bartoli C, Levy G. Post-traumatic balance disorder. *Eur Ann Otorhinolaryngol Head Neck Dis.* 2017 May;134(3):171-175.
61. Schmerber S, Deguine O, Marx M, Van de Heyning P, Sterkers O, Mosnier I, Garin P, Godey B, Vincent C, Venail F, Mondain M, **Deveze A**, Lavieille JP, Karkas A. Safety and effectiveness of the Bonebridge transcutaneous active direct-drive bone-conduction hearing implant at 1-year device use. *Eur Arch Otorhinolaryngol.* 2017 Apr;274(4):1835-1851.
62. Girard SD, Virard I, Lacassagne E, Paumier JM, Lahlou H, Jabes F, Molino Y, Stephan D, Baranger K, Belghazi M, **Deveze A**, Khrestchatsky M, Nivet E, Roman FS, Féron F. From Blood to Lesioned Brain: An In Vitro Study on Migration Mechanisms of Human Nasal Olfactory Stem Cells. *Stem Cells Int.* 2017;2017:1478606.
63. Veron AD, Bienboire-Frosini C, Feron F, Codecasa E, **Deveze A**, Royer D, Watelet P, Asproni P, Sadelli K, Chabaud C, Stamegna JC, Fagot J, Khrestchatsky M, Cozzi A, Roman FS, Pageat P, Mengoli M, Girard SD. Isolation and characterization of olfactory ecto-mesenchymal stem cells from eight mammalian genera. *BMC Vet Res.* 2018 Jan 17;14(1):17.
64. Deveze A, Matsuda H, Elziere M, Ikezono T. Diagnosis and Treatment of Perilymphatic Fistula. *Adv Otorhinolaryngol.* 2018;81:133-145.
65. Nevoux J, Coudert C, Boulet M, Czajka C, Tavernier L, Daval M, Ayache D, Meller R, Rossetto S, Papon JF, Deveze A. Transcutaneous Baha Attract system: Long-term outcomes of the French multicenter study. *Clin Otolaryngol.* 2018 Dec;43(6):1553-1559.

### Book Chapters (English)

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1. Magnan J, Miyazaki H, Elaini S, **Devèze A**. Endoscope-assisted retrosigmoid keyhole approach (RSA) for otoneurological surgery. EndoPress, Tutlingen, Germany, 2010, 47p.
2. **Devèze A**. Implantable Hearing Aids. in *Recent Advances in Otolaryngology - Head and Neck Surgery* 3rd edition, Anil Lalwani Ed. Jaypee Brothers Medical Publishers, 2013
3. **Deveze A**, Ikezono T, Elziere M. Perilymphatic Fistula. in *Advances in Hearin Rehabilitation*. N. Donnelly and S.K.W. Lloyd, Krager, 2018.