



Tejas Hearing Aid CenterTM

Latest Hearing Aid Technology and Hearing Aid Maintenance

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Key Factors in Hearing Aid Technology

- The hearing aid manufacturer, model, style, and features should be determined by your Audiologist based on your hearing loss and lifestyle needs
- Recommendations should be made after your consultation with choices available but ultimately it is your decision on the product
- The hearing aid is only one small part of your hearing rehabilitation journey
 - Aural Rehabilitation
 - Motivation
 - Support
 - Severity and duration of Hearing loss

New Hearing Aid Technology 2018

- The Latest and Greatest

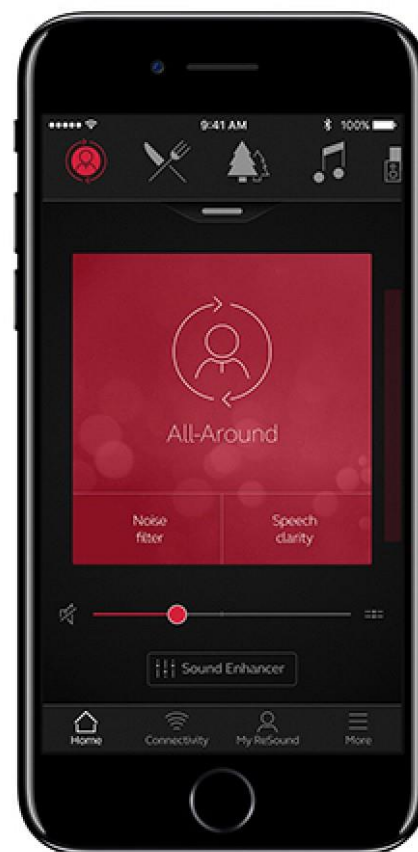
- GN Resound
 - Linx 3D
- Phonak/Unitron
 - Audeo/Bolero/Virto B
- Oticon
 - Opn
- Widex
 - Beyond
- Starkey
 - Muse/Halo/Soundlens
- Signia



GN Resound: Linx 3D



- Digital hearing aids with Bluetooth technology
- Identify more speech in noise and hear more sounds around you
- Control your hearing aids from your smartphone
- Stream sound directly from your iPhone



GN Resound: Linx 3D



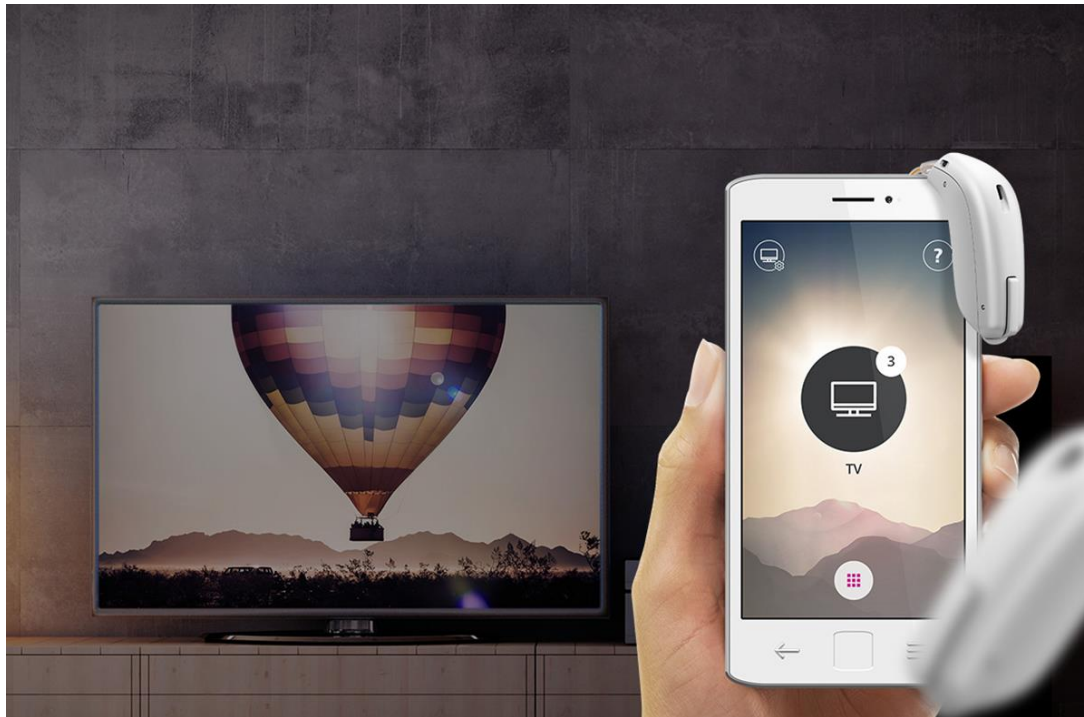
- Fine-tune your hearing aids remotely
- Get updates without going to the clinic
- Rechargeable batteries with Zpower (no telecoil in rechargeable)

Oticon: Opn

- Listen to multiple speakers in noisy environments
- Traditional hearing aids isolate one speaker and suppress all others. Oticon Opn processing is so fast it can remove noise around you and at the same time provide you with access to the speakers around you.
- Rechargeable batteries (no telecoil in rechargeable yet)



Oticon: Opn



- Digital hearing aids with Bluetooth and INTERNET connected
 - If this than that network (IFTTT.com)
 - Want the lights to turn on automatically when you switch on your hearing aids?
 - Want to be notified in your hearing aids when someone's at the door?

Starkey: Muse/Halo/Soundlens



- Muse- Improves speech in difficult listening environments
- Halo- Direct to iPhone
- Soundlens- WIRELESS invisible in the canal (IIC)
- Speech and music processed uniquely
- Patient controlled settings
- Environment detection system uses artificial intelligence to classify multiple listening environments and adjust hearing aid automatically



Starkey: Muse/Halo/Soundlens



- Muse iQ rechargeable
 - 30 hours
 - Smallest rechargeable hearing aid
 - Charger is also a dryer
 - Can charge for 3 days without plugging into the wall
 - No battery door
 - Telecoil



Phonak: Belong



- Audeo B Direct:

- Connects to ANY Bluetooth phone without adapters
- Uses hearing aid as microphone when talking on the phone
- Streams only phone calls (no music) and only to 1 ear



- Virto B Titanium:

- Smallest custom hearing aid made from durable titanium
- Invisible in the canal (IIC)
- Avoids shell cracking
- Medical grade hypoallergenic material
- Not wireless



Phonak and Unitron Rechargeable



- Unitron Moxi-R:

- Rechargeable
- 19 hours
- telecoil



unitron.

- Audeo/Bolero B-R:

- Rechargeable
- No battery door
- 24 hours on single charge
- Charger is also dry box
- Bolero has telecoil



Widex: Beyond



- Hear the full spectrum of sounds
- Hear soft sounds and make sure loud sounds not uncomfortable
- Direct connection to iPhone
- Rechargeable with telecoil
- Hearing aid updates through the phone



Widex: Accessories

- DRY-GO UV™ clean and dry hearing aids and earmolds in just 3 hours.
- Com Dex for all cell phone compatibility



Comparisons

	GNResound	Phonak	Unitron	Oticon	Widex	Starkey
•Z Power	X		X	X	X	X
•Other Rechargeable		X				X
•Dry box		X				X
•Made for iPhone	X	*	*	X	X	*
•Direct to Android		*	*			
•Telecoil in rechargeable		X	X		X	X
•Internet Connected				X		
*available but not rechargeable						

PSAPs

- Should I consider purchasing online?
- “We believe that you achieve the best possible results by consulting with a hearing professional in person, so we do not endorse retailers selling over the Internet”
- PSAPs are a great “First step” into the hearing aid world for patients with mild to moderate high frequency hearing loss who are having difficulty hearing in background noise

PSAPs: Data from John Hopkins

Condition	Cost	Mean Score	Change from Unaided	Cost per % of Improvement
Unaided	--	76.5%	---	---
Oticon Nera 2	\$1910	88.4%	11.9	\$160.50
SWS CS50+	\$350	87.4%	11.0	\$31.82
Soundhawk	\$350	86.7%	10.2	\$34.31
ER Bean	\$300	84.1%	7.7	\$38.96
Tweak Focus	\$270	81.4%	4.9	\$55.10
MSA 30 X	\$30	65.1%	-11.2	"they should pay you to wear"

Hearing Aid Maintenance

- General tips
- Filters and Domes
- Rechargeable Batteries
- Drying Kit
- Regular visits to hearing care professional

Hearing Aid Maintenance

- Remove earwax
 - It is important to remove earwax from your hearing aid to prevent temporary malfunction or permanent damage. When you purchase your hearing aids, you should receive cleaning tools including a soft brush and small picks or loops. Follow the manufacturer's instructions for cleaning your hearing aids. If you cannot remove all the earwax, your hearing professional can help.
 - When you remove your hearing aids at night, wipe them with a dry soft cloth. Do not use water, alcohol swabs or cleaning solvents as they can break down or damage your hearing aids.
- Don't drop your hearing aids
 - Dropping your hearing aids on a hard surface can damage the instruments. When you're learning how to correctly place and remove your hearing aids, do it from a seated position with a towel or pillow on your lap.
- Proper storage
 - When not in use, keep your hearing aids away from heat and moisture and store them in a dry, cool place. Ask your hearing specialist about a dehumidifying box for storage. These boxes are designed to safely and effectively remove moisture that can corrode sensitive circuitry.
- Leave the battery door open to preserve battery power when not in use.
- Keep away from children and pets
 - Place the aid out of reach of children and pets. Hearing aids that are still switched on and lying around emit high pitched sounds that can irritate dogs. This has resulted in some aids getting eaten by pet dogs.
- While most new hearing aids today are designed for water resistance, don't wear your hearing aids:
 - In the shower or sauna
 - Swimming
 - When using a hair dryer
 - While applying hair spray or other types of spray on products. Apply hair products first, and then insert your hearing

Hearing Aid Maintenance

- Changing filters (wax guards, wax traps, Hear Clear, ProWax, etc)
- [https://youtu.be/ DH7BGyzwwc](https://youtu.be/DH7BGyzwwc)
 - Once a month or as needed
- Changing domes
 - Every 6 months if necessary



Domes



- Important notice!
- The dome is made of a soft material. If the dome comes off in the ear canal, it will not cause any harm. If you can, carefully take it out. If necessary, let another person help you. Do not push the dome into the ear canal. Do not push the tube into the ear again before the dome is removed from the ear. If you have any doubts about how to proceed if the dome comes off, contact your hearing care professional.

Z Power: 70% of patients want rechargeable hearing instruments.*

Z Power compatible

- Unitron- telecoil
- Widex- telecoil
- Oticon- no telecoil
- Resound – no telecoil
- Starkey- telecoil

Not Z Power Compatible

- Starkey - telecoil
- Phonak- telecoil



*HearingTracker.com August 2016

Rechargeable batteries

Z POWER

- 19 hours/day
- 1 year life
- 1 year warranty
- \$25/battery plus shipping each
- \$300 for charger
- Send battery and charger back for repair when having issues
- Can use traditional batteries

RECHARGEABLE (Phonak and Starkey)

- 24-30 hours/day
- 4 year life
- 3 year warranty
- \$200-\$300 to replace out of warranty
- Replaced by manufacturer if issues while under warranty
- No battery door for traditional batteries



**WHAT TO DO
WHEN YOUR
HEARING AIDS
GET WET**

Drying Kits

- These boxes are designed to safely and effectively remove moisture that can corrode sensitive circuitry.



Regular Visits to Your Audiologist

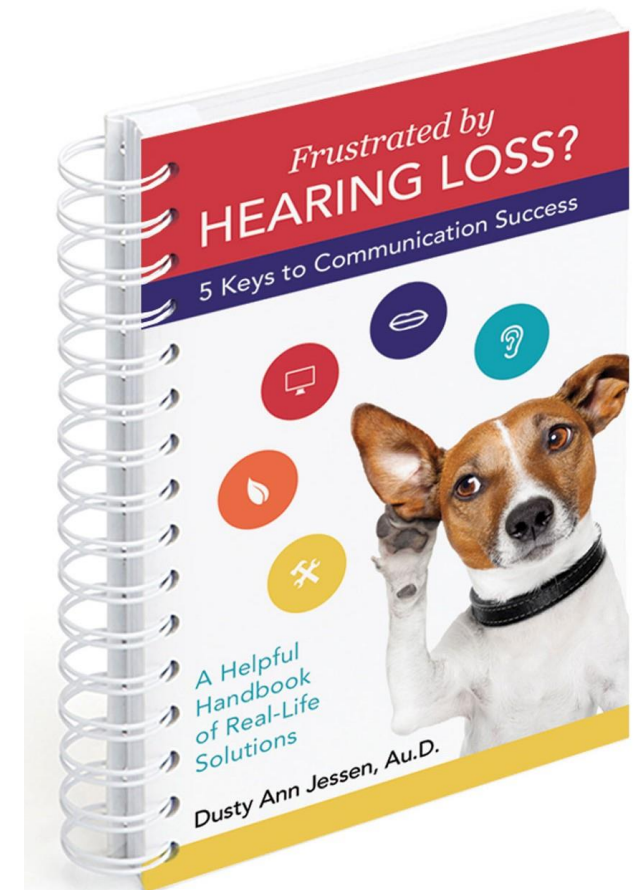
- Every 6 months at least!
 - Clean aids
 - Replace parts
 - Suction and dry hearing aids
 - Changed tubes/receivers
 - Annual audiograms
 - Update hearing aid firmware
 - Adjust settings depending on hearing changes

Hearing Rehabilitation

- Hearing aids alone can't address the full impact of hearing loss
 - Education
 - 5 Keys to Communication
 - Rehabilitation
 - CLEAR: Ear Train the Brain
 - Apps

Aural Rehabilitation

- Patient satisfaction starts with patient education.
 - 1. Appropriate hearing aid expectations
 - 2. Importance of family member involvement
 - 3. Successful communication strategies



Aural Rehabilitation

- cLEAR...Ear Train Your Brain
- cLEAR Auditory Brain Training Games are fun and easy to use and can be played at home on the website
- Can train using the voice of a family member or friend
- Proven to be effective:
 - Increases active participation in social situations
 - Reduces stress levels during conversations
 - Improves confidence in noisy environments

When to Start Rehabilitation

- You have new hearing aids:
 - Rehabilitation compliments the benefits you receive from using new hearing aids and helps reach listening goals faster
- You're not ready for hearing aids
 - Rehabilitation can be the first step in the treatment process
- You already use hearing aids, but still feel you are missing out on conversations
 - Often people have great hearing aids but still need an organized way to learn new listening skills

Questions?

- Anyone willing to share experiences with hearing aids/ PSAPs/ Rechargeable solutions?