

October 20-23, 2022 Grapevine/Dallas, Texas





Amplification Amplified: Utilizing Cochlear Implant Services in a Private Practice Setting

Abby Ryan, Au.D.

Who We Are

We Truly Believe That Better Hearing Leads To A Better Life.







1 Year Stats

INDIVIDUAL

- 21% Cochlear
 - 18% Gross Total Profit
- 30% Cochlear and additional services
 - 22% Gross Total Profit

OFFICE

- 5% Gross Total Profit
- 7% Gross Total Profit





Why Provide CI Services?

AS OF LATE

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 As of September 26, 2022, Medicare/Medicaid increased their threshold for CI candidacy to <60% best-aided condition, effective immediately.

STATS

- 430 million people
 - Over 5% of the world's population will require rehabilitation to address their 'disabling' hearing loss (432 million adults and 34 million children).
- 1 in 10 individuals
 - By 2050 over 700 million people will have disabling hearing loss.



Benefits Of Providing CI Services

- BROADEN
 - Broaden Service Portfolio
- PARTNER
 - Partner with the Medical Community
- MAINTAIN
 - Maintain Existing and Attract New Patients
- EXPAND
 - Expand Alternate Revenue Sources
- CAPTIVATE
 - Captivate Patients With New Talent



Patient Example

- 50 year-old female
 - Established patient since 2020
 - 10 year-old BTE hearing aids attached to custom molds
 - Not ready to pursue CI testing, fit with ReSound BTE aids attached to custom molds April 2021 through vocational rehabilitation.
 - Returned for 9 follow-ups prior to agreeing to CI candidacy testing.
 - AZ BIO Sentence Test Sentences of recorded male and female voices were presented through a speaker at 70dbSPL with speech noise present in the background at 40dBHL.

Ahead of the Curve.

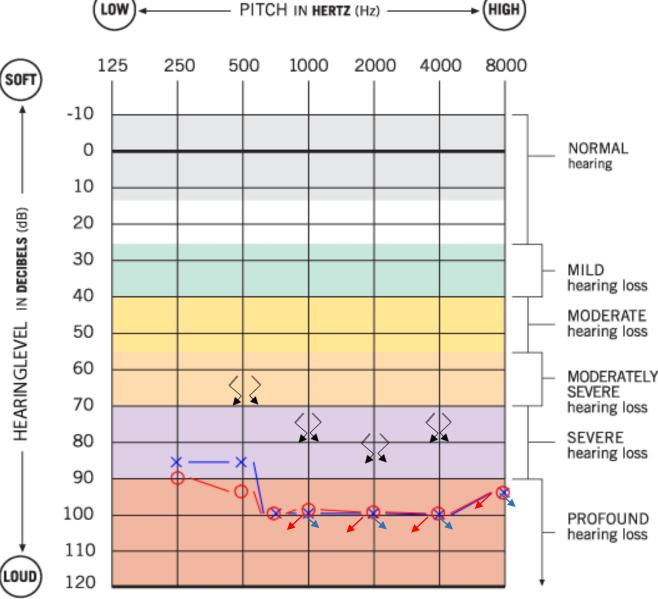
• SCORE : Binaural: 1/159 = 1%; Right: 0/146 = 0%; Left: 0/137 = 0%



Patient Example

- Pre-implant audio
- SRT:
 - Right: 100/80 dB
 - Left: 95/75 dB
- Discrim:
 - Right: 100/80 dB 40%
 - Left: 100/80 40%

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Patient Example

- Right cochlear implant activated in August, 2022.
- Aided testing conducted at 2 weeks follow-up revealed essentially normal hearing thresholds from 500-4000 Hz.
 - SRT:
 - Bimodal: 30 dB
 - Right CI only: 30 dB
 - Discrim:
 - Bimodal: 45 dB 90%
 - Right CI only: 45 dB 80%
- Post-op audio revealed preserved low frequency hearing thresholds.



Patient Example

- September AzBIO testing revealed a bimodal score of 87% and CI only score of 82%.
- HUGE IMPROVEMENT!!!





Takeaway

Implementing cochlear services can help grow your practice and help you become part of a medical network that assists people with hearing loss, so they can achieve the best outcome possible.



Sources Cited

- Zwolan TA, Schvartz-Leyzac KC, Pleasant T. Development of a 60/60 Guideline for Referring Adults for a Traditional Cochlear Implant Candidacy Evaluation. Otol Neurotol. 2020 Aug;41(7):895-900. doi: 10.1097/MAO.00000000002664. PMID: 32658396.
- Deafness and hearing loss (who.int)
- NCA Cochlear Implantation (CAG-00107R) Decision Memo (cms.gov)
- <u>Cochlear Provider Network | Partner Opportunities | Cochlear Americas</u>

Ahead of the Curve.

• American Cochlear Implant Alliance (acialliance.org)



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AUDACITY Ahead of the Curve.





Amplification Amplified: Amptify DTx and more

Ram Nileshwar, Au.D., CCC-A, FAAA The Hearing Center of Lake Charles, Inc.

The Amptify Hearing Health Platform

(Simplified Model)

ENHANCED HEARING HEALTHCARE PRODUCTS & SERVICES

For Audiologists Provider Portal



An ecosystem of hearing health built to improve the provider and patient experience through techenhanced care. For Patients
Amptify DTx



PATIENT PERFORMANCE AND ADHERENCE DATA



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PATIENT PERFORMANCE AND ADHERENCE DATA



A Digital Therapeutic (DTx) is a softwarebased intervention for a disease and/or disorder that is clinically validated to drive a specific positive outcome.





Example of existing DTx use cases





DIABETES BlueStar®

ASTHMA/COPD Propeller



Livongo

DIABETES







SMOKING CESSATION Clickotine

ADHD EndeavorRx

	Ρ	T	S	D	
Fr	ree	es	р	ir	а



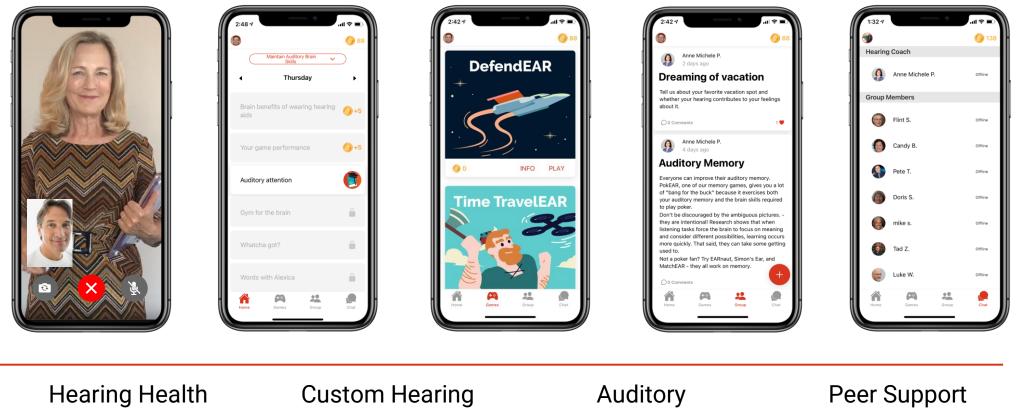


Amptify DTx Digital Aural Rehabilitation Program

Coach

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app.Amptify.com iOS & Android



Training

Video Games

Health Curricula

Groups

Amptify Games Auditory Skills Trained	Auditory Memory Remember spoken words for short periods.	Auditory Sequencing Remember the order of spoken words for a short amount of time.	Discourse Comprehension Manipulate and interpret long sequences of speech in memory.	Speech Perception Identify and discriminate words.	Phoneme Discrimination Distinguish speech sounds from each other.	Word Identification Discriminate words that sound alike.	Bound Morpheme Identification Discriminate word endings that change the meaning.	Noise Tolerance Identify and discriminate words in background noise.	Processing Speed Measure reaction time to discriminate words and phrases.
DefendEAR				1	1	1		1	
EARnaut	1				1	1		1	
EARplane	•			1	1	1			1
FarmEAR	1			1	1	1		1	
HoopstEAR				1			1		1
MatchEAR 🏼 🎽	1			1	1	1		1	
MountainEAR					1	1		1	1
PEARL Crunch				1			1	1	
PokEAR	1			1	1	1			
ShakespEAR	1	1	1						
Simon's e a verte of the second secon	1	1							
Time TravelEAR				1	1	1		1	
TreasEAR Island		1		1	1	1		1	

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Amptify DTx Backed by clinical research and peer-reviewed publishing

- Enhances speech discrimination ^{1, 2}
- Leads to reduced perceptual effort during listening ³
- Enhances the hearing wellness experience ⁴
- Increases listening confidence ⁴
- Leads to improved communication and interactions between couples ⁵
- Amptify facilitates adjustment to new hearing aids ⁷
- Expands children's vocabulary ⁶
- 96% of clinical trial users (N=28) responded positively to the Amptify experience ⁷
- On a scale of 1-7, the Amptify curriculum received a satisfaction rating of 6.1 during clinical trials testing ⁷
- Significantly enhances the ability of children to recognize the speech of both familiar and unfamiliar talkers ⁶



The Amptify Hearing Health Platform

(Simplified Model)

ENHANCED HEARING HEALTHCARE PRODUCTS & SERVICES

For Audiologists

Provider Portal

An ecosystem of hearing health built to improve the provider and patient experience through tech-

For Patients Amptify DTx

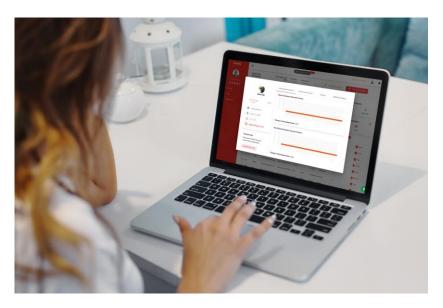


PATIENT PERFORMANCE AND ADHERENCE DATA

enhanced care.

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Amptify Provider Portal



https://portal.Amptify.com

Remote Patient Monitoring

Monthly Noise Tolerance, Word Discrimination and Quality of Life assessments. Real time auditory training and adherence monitoring.

Patient Referrals

Streamlined new patient referrals generated by Amptify consumer network and OTC partnerships.

Teleaudiology System

Increase patients access to care with scheduling, virtual waiting rooms, & video conferencing.

Turn-key Ecommerce Store

Sell hearing aids, hearing protection, adaptive audio and situational listening devices from your own branded store on your websites subdomain.

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Amptify Benefits you and your patients.



PATIENTS

- Increase satisfaction with new hearing aids
- Improve communication skills and quality of life
- $\circ~$ Benefit from post fit training and counseling
- Practice and train on their own schedule
- Access 24/7 to a supportive community and hearing health coach

CLINICAL OPERATIONS

- Outsource aural rehabilitation to expert providers
- Improve patient satisfaction
- Save money on patient initiated visits
- Service those who aren't yet ready for amplification
- Develop "brand loyalty" by having patients stay connected your practice
- Distinguish your practice from the big box stores and other competition
- $\circ\;$ Efficiently deliver best practice by including AR in the treatment plan

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Amptify DTx is for Clinical Care

Improve patient satisfaction with less in-office time spent

Save on clinic costs while giving patients on-going personalized support and access to an evidence-based aural rehabilitation program.

What the clinician does



SENSORY MANAGEMENT

Optimize auditory function through enhanced hearing technology to provide improved audibility while preserving comfort.



INSTRUCTION

Teach patients proper and effective use of hearing technology to maximize its use and effectiveness.

What Amptify DTx does



COUNSELING & EDUCATION

Amptify works to increase satisfaction with hearing technology and empowers patients to manage listening challenges.

AUDITORY TRAINING

Auditory and cognitive training games develop speech perception skills, increase listening confidence, and enhance conversational fluency.

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Get started integrating Amptify DTx into your practice



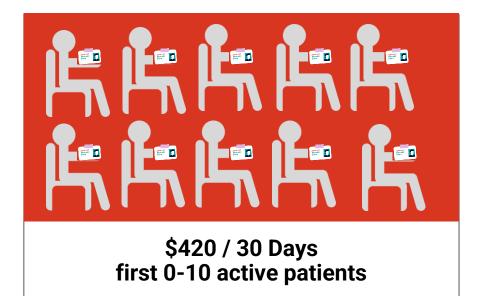
- 1. Go to Amptify.com and click *Get Started* and register
- 2. Invite your patients
- 3. Remotely monitor your patient performance data
- 4. Earn income and open appointment slots by outsourcing your AR



Amptify Billing Structure

Amptify Professional Plan

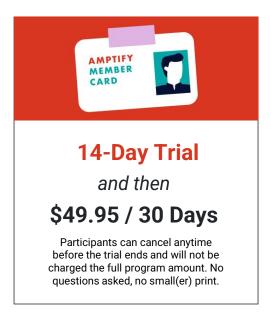
Clinic purchases licenses and distributes to the patient.



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Patient Managed Payment

Patient pays directly for the licence.



Amptify Professional Plan

\$420 per month for the first 0-10 patients – Cost to the Practice Practice sets the price to the patient For example if charge to patient is \$150 It would take only 3 Amptify DTx participants to begin being profitable

Other Amptify platform benefits like patient referrals then become free features.





How to invite your patients into the **Amptify DTx**



- 1. Custom patient brochures with unique QR codes
- 2. Via email in the Amptify Provider Portal
- 3. Integrate with OMS

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Programs for patients who cannot do DTx

5 Keys Communication

5keys.org By Dr. Dusty Jessen AuD

Hearing Wellness Journey Hearingwellnessjourney.com By Dr. Dawn Heiman AuD



Thank you!





Amplification Amplified: The Business of OTC Jill Davis, AuD

Agenda

- Identifying the OTC Candidate
- The Existing OTC User



Identifying the OTC Candidate: The Recipe for Success

4 Ingredients

- HHIE/HHIA
 - Patient's motivation
- Speech in noise
 - Real-world performance
- Cognitive Screening
 - SIN score is due to ear or brain
- Audiometry
 - Degree of loss and medical management





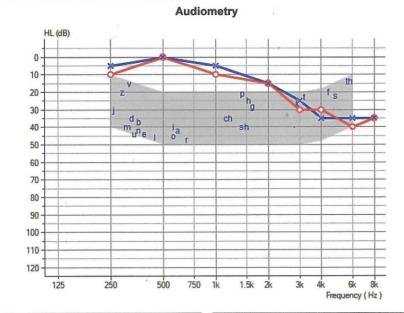
The Business of OTC

- Functional assessment:
 - 3 objective measures, 1 subjective
 - 1 test covered by insurance
- Patient pays for the rest





68-yr-old male



Left	125	250	500	750	1k	1.5k	2k	3k	4k	6k	8k	Right	125	250	500	750	1k	1.5k	2k	3k	4k	6k	8k
AC,		5	0		5		15	25	35	35	35	AC		10	0		10		15	30	30	40	35

1 O= Air Conduction, Al=82%, PTA=8, HFA=18	AC	SRT	WR	WR, Aided	MCL	UCL
2 X Air Conduction, Al=83%, PTA=7, HFA=18	Left	5dB	100% at 50dB			
	Right	5dB	100% at 50dB			

Audiometry Legend	Left	Right
Air Conduction	×	0
Air Conduction, Masked		
Bone Conduction	>	<
Bone Conduction, Masked	3	C
Sound Field	S	S
Sound Field, Aided	A	A
Comfortable Level	. M	M
Uncomfortable Level	U	U

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	SNR Loss Unaided	SNR Loss Aided	(LP-HFE) Unaided	(LP-HFE) Aided
Left	0.5			
Right				
Both				

TREATMENT PLAN



Name

Lifestyle Assessm	nent	Hearing Assessment			
Normal	0-8	\checkmark	Normal	0dB-20dB	
Mild-to-moderate	10-24		Mild	25 dB-40dB	V
Severe	26-40		Moderate	45-70dB	
			Severe 6	70-90dB	
			Profound	>90	
Functional Asses	sment		Cognitive	Screening	
Normal	0dB-3.0 dB	\checkmark	Normal		\checkmark
Mild	3.5-7dB		Mild		
Moderate	7.5dB-15		Moderate		
Severe	>15dB		Severe		

Date

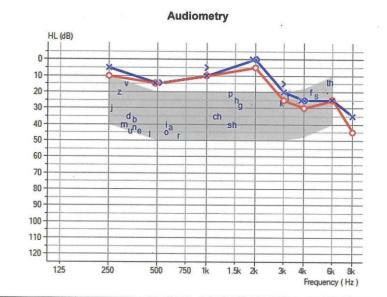
Recommendations:

list:							
Auditory Training Music Amptify APDSupport							
Noise Protection Music Hunting Motorcycle Other:							
Date:	Time:						
Date:	Time:						
Make:	Model:						
	Date: Date: nting □Motorcycle □Other						

Referral:	Specialist:	
Vestibular Evaluation	ENT:	-
Comorbidities	PCP:	_
Cognitive Screen	PCP:	Neurology:
Tinnitus	□ Psychology □ Dentist	ENT PCP



71-yr-old female



.eft	12,5	250	500	750	1k	1.5k	2k	3k	4k	6k	8k	Right	125	250	500	750	1k	1.5k	2k	3k	4k	6k	8k
AC	8	5	15		10		0	20	25	25	35	AC		10	15		10		5	25	30	25	45
BC			15		5		0	15	25			BC						1		-	1		

10	Air Conduction, AI=87%, PTA=10, HFA=
2 ×	Air Conduction, AI=91%, PTA=8, HFA=1
3 🗙 🚥	Bone Conduction, PTA=7, HFA=10

Audiometry Legend Left Right Air Conduction

Bone Conduction >

Sound Field, Aided

Comfortable Level

Uncomfortable Level

Sound Field S

Air Conduction, Masked

Sone Conduction, Masked

×

U

0

<

C

S

A

M

U

AC	SRT	WR	WR, Aided	MCL	UCL
Left	10dB	100% at 60dB		65dB	
Right	10dB	100% at 60dB		65dB	

QuickSIN

	SNR Loss Unaided	SNR Loss Aided	(LP-HFE) Unaided	(LP-HFE) Aided
Left	0.5			
Right				
Both				

(SNR Loss HFE-LP - SNR Loss HFE) > 3.9 dB: amplification is useful

TREATMENT PLAN



Name

.

Lifestyle Asse	ssment	Hearing Assessment		
Normal	0-8		Normal 0dB-20dB	
Mild-to-modera	ite 10-24	/	Mild 25 dB-40dB	\checkmark
Severe	26-40	\checkmark	Moderate 45-70dB	
			Severe 70-90dB	
			Profound >90	
Functional As	sessment	,	Cognitive Screening	
Normal	0dB-3.0 dB	-	Normal	
Mild	3.5-7dB		Mild	
Moderate	7.5dB-15		Moderate	
Severe	>15dB		Severe	

Date

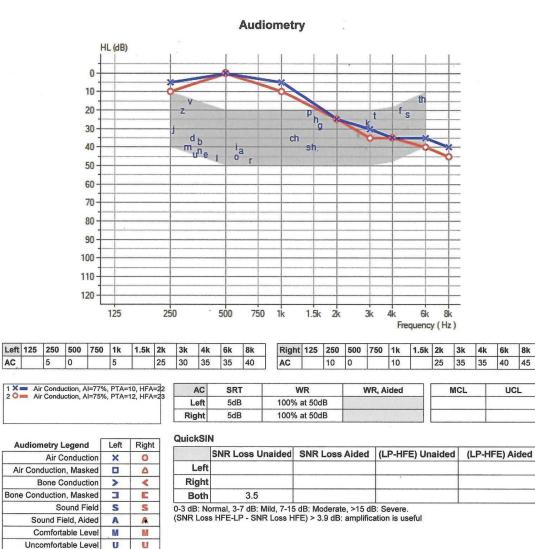
Recommendations:

Hearing Aids	Make:	Model:
Cochlear Implant Evaluat	on Date:	Time:
Auditory Processing Evalu	uation Date:	Time:
Noise Protection D Musi	c □Hunting □Motorcycle	□ Other:
Auditory Training D Mus	ic □Amptify □APDSuppor	rt
Referral:	Specialist:	×
Vestibular Evaluation	ENT:	-
Comorbidities	PCP:	_
Cognitive Screen	PCP:	_ Neurology:
Tinnitus	□ Psychology □ Dentist	ENT DPCP



AUDAC	NTV	2022
AUDAU		2022

72-yr-old male



TREATMENT PLAN



Name

-	 	 _	

Date

Lifestyle Assessn	nent		Hearing Assessment			
Normal	0-8		Normal	0dB-20dB		
Mild-to-moderate	10-24	\checkmark	Mild	25 dB-40dB	\checkmark	
Severe	26-40		Moderate	45-70dB		
			Severe .	70-90dB		
			Profound	>90		
Functional Asses	sment		Cognitive	Screening		
Normal	0dB-3.0 dB		Normal			
Mild	3.5-7dB	\checkmark	Mild		\checkmark	
Moderate	7.5dB-15		Moderate			
Severe	>15dB		Severe			

Recommendations:

45

Hearing Aids	Make:	Model:					
Cochlear Implant Evaluation	Date:	Time:					
Auditory Processing Evaluation	Date:	_ Time:					
Noise Protection □ Music □ Hunting □ Motorcycle □ Other:							
Auditory Training Music Amptify APDSupport							
Referral: Special	ist:						

Vestibular Evaluation	ENT:				
Comorbidities	PCP:				
Cognitive Screen	PCP:		Neur	_ Neurology:	
Tinnitus	□ Psychology	Dentist	□ ENT	□ PCP	



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Recommendations

• OTC:

- Tunedcare.com
- Soundly.com
- Carry devices in the office/online
 - Airpod pro instructions
 - Manufacturer devices
- Prescription
 - Pricing breakdown and comparison

- Service plan offer
- Show value for the cost



Offer OTC in office?

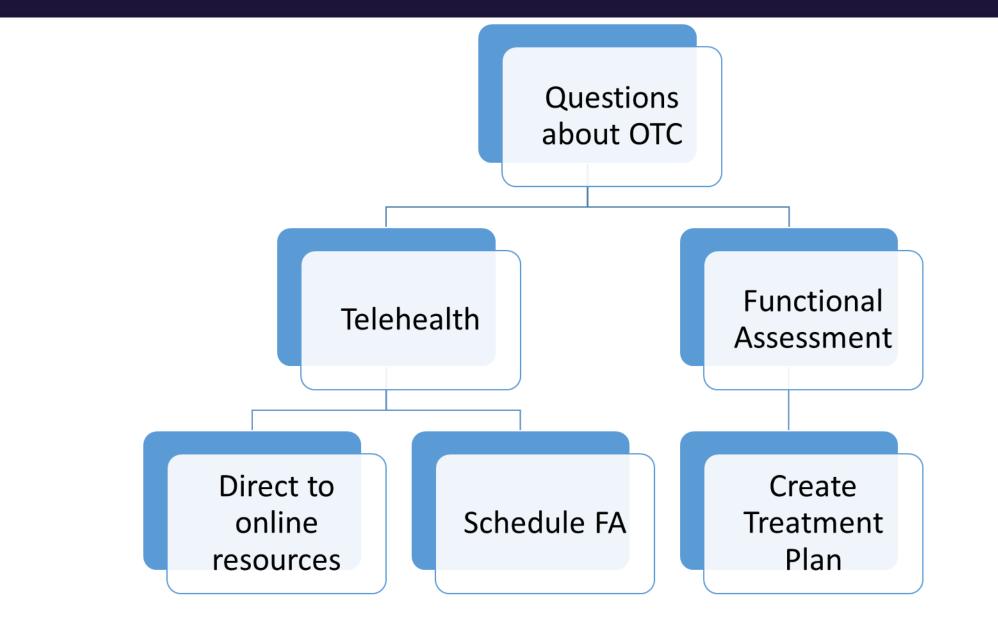


The Business of OTC: Existing OTC customers

- Front desk/PCC has an important role
 - Make sure everyone is on the same page and understands the protocol

- Will we accept these patients?
- Walk-in with problems/questions
 - Schedule appropriately
 - Capture patient information for future touch points
 - Fee for service
- Calling to inquire or have devices already





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Create a Treatment Plan

- Verification of OTC
- Counsel, counsel, counsel
- Compare to prescription devices?

- Sign up for aural rehabilitation
- Monitor hearing loss
- Cerumen management
- Clean and check



Existing OTC customers: Service options

- Services to offer: *a la carte*
 - V5011: fitting, orientation, and checking a hearing aid
 - V5090: dispensing fee
 - V5020: conformity/ verification and validation
 - 92595: electroacoustic evaluation
 - 92592/3: Clean and check
 - V5014: Repair
 - V5266: Battery
 - Redux

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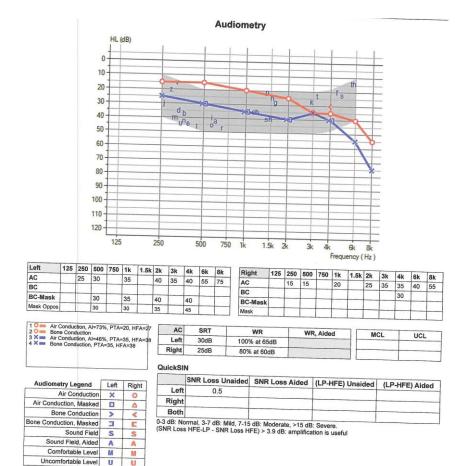
• Cerumen management



- One time fee
- Covers all services and troubleshooting in-between
- Biannual visits



65-year-old, 26 HHIE, Normal Cognitive score

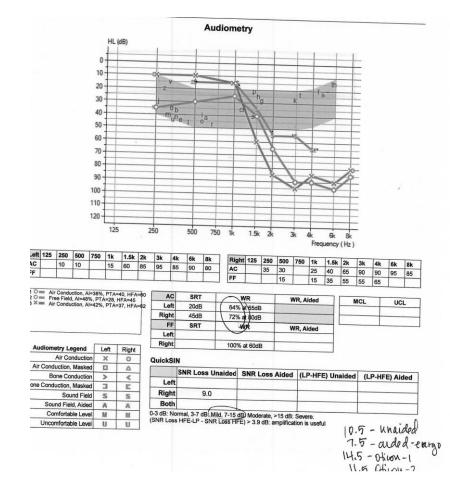


 Purchased Bose after functional assessment: cost

- Returned for fitting/dispensing/LSM
- Pay as you go



58-year-old, 28 HHIA, Normal Cognitive score



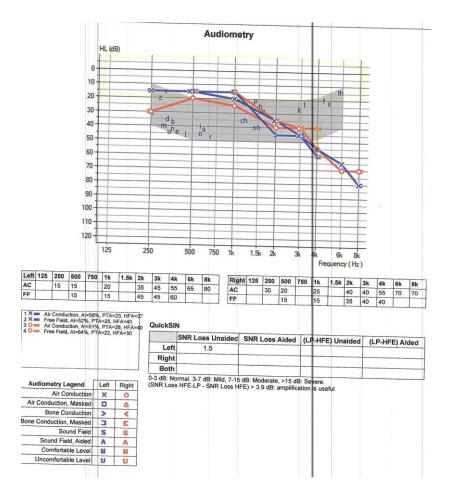
- Purchased Eargo after trying RICs somewhere else
- Not hearing well and wanted an evaluation
- Returned for LSM and purchased RICs

Ahead of the Curve.

• Service plan



79-year-old, 4 HHIE, Normal Cognitive score



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- Functional Assessment: cost is a concern, purchased low level IICs
- Returned due to fit issues and sound quality
- Rec: Eargo
- Returned for LSM, fitting/dispensing
- Service plan



Summary: Clinic Protocol

- Initial evaluation:
 - Functional Assessment
 - Determine need for verification
- Verification appointment:
 - REM
 - Redux
 - C/C
 - Fitting/dispensing
- Troubleshooting
 - Non-audiologist staff member

Ahead of the Curve.

• Pricing set



Conclusion

- The device is a small component of a comprehensive treatment plan
- Create a formula for treatment plan recommendations based on your existing protocol and share with patients
- Consider how you will educate patients or offer OTC devices in your office
 - Make sure products have been vetted before offering to patient
- Educate PCPs on the importance of the audiologist in the OTC process and share formula with them
- Determine if you will treat OTC patients who purchased outside your clinic

Ahead of the Curve.

Develop a service plan package to highlight your value or fee for service pricing

