How entrepreneurs can integrate hearables into their clinic

BY BRIAN TAYLOR

Brian Taylor provides an interesting perspective on market segmentation of the hearing impaired population, and how as clinicians and entrepreneurs we need to be able to recognise the different approaches that are required to address the large percentage of the aging population with hearing loss who choose not to seek audiological intervention. Hearables is a concept he discusses with advice on how to successfully integrate them into our practices.

or decades clinicians have wrestled with a frustrating problem: an abundance of individuals with age-related hearing loss who too often fail to seek help for their handicapping condition. Further, these same business-minded professionals are beginning to realise the provision of customisable amplification devices, predicated around several office visits, is not valued by a large swath of individuals with hearing loss, and a different approach is needed. A summary of the data to support this thesis includes the following:

- Approximately 75% of the population with hearing loss has a mild to moderate high frequency impairment, yet less than 10% of this group uses hearing aids [1]
- There are a significant number of individuals with normal audiograms that have self-reported problems with their hearing. Tremblay et al. (2015) suggest that 12% of adults fall into this category, and it is likely none of them consider themselves candidates for traditional hearing aids [2]
- Stigmatisation related to ageing is a probable factor, as less than 7% of adults between the ages of 50-69 with hearing loss use hearing aids [3]
- The challenge of low uptake of hearing aids is not confined to stigma, as less than one-quarter of adults 80 years of age and older with hearing loss wear them [3]
- Although high cost is a culprit for non-use of hearing aids, perhaps it is not as significant an issue as many believe, as countries with socialised healthcare programmes

have essentially the same market penetration as nations where hearing aids are mainly a private expense.

This data suggests the audiology profession has built a clinical system that fails to appeal to a large swath of patients with age-related hearing loss. Simultaneously, it also represents a significant opportunity for the entrepreneurial audiologist, poised to create demand for new and innovative products and services.

To address this huge unmet need requires audiologists to rethink their value proposition to the market. This starts with an ability to recognise we are working with two completely different segments of the hearing impaired market. One segment is those with greater degrees of hearing loss. This segment of patients often need more office visits because they have been coping with their condition longer and their hearing loss and its sequelae are more complex. Historically, this is the market segment that we have built

successful businesses around. On the other hand, there is a second segment of the market, often younger with milder losses, summarised in the bullet points above, that do not value the additional services wrapped around the provision of programmable hearing instruments. The critical question is, how can we offer services to two uniquely different segments of the market?

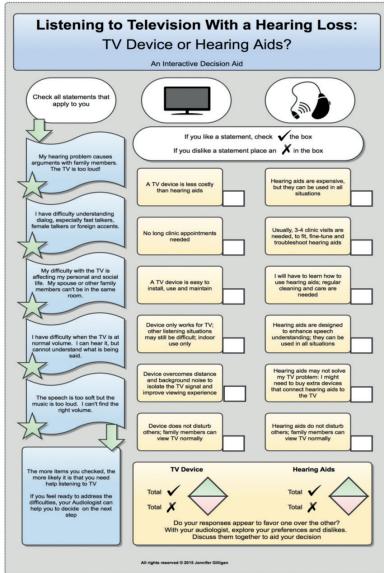
The morphing of traditional hearing aids and consumer electronic devices into a new category of devices, called hearables, provide the business savvy clinician with part of the answer to this question. Hearables provide an opportunity to address the needs of those patient categories listed above who often live with the real world effects of hearing loss, but fail to seek help. Hearables are a broad category of products, comprised of personal sound amplification products (PSAPs), smartphone apps (e.g. EarMachine), wearable augmented reality devices (e.g. Doppler Labs) and directed audio devices (e.g. Hypersound). All of these hearables offer some combination

Hearables: Morphing of Two Different Technologies



Figure 1. Some of the key attributes of hearing aids and consumer electronics morph to create a new product category called hearables.

Figure 2.



of features from both traditional hearing aids and consumer electronic devices, as per Figure 1.

It is probably a mistake for clinicians to offer hearables in their practice relying on the same protocols used to deliver traditional hearing aids. One; many hearables can be sold directly to consumers, thus licensed professionals risk being eliminated from the delivery process. Two a large portion of the; untapped market probably doesn't value the current, relationship-based hearing aid delivery process, predicated on several follow-up visits. To fully capitalise on the successful integration of hearables into clinical practice, clinicians must recognise that many of the individuals in this untapped market value an armslength, rather than a relationship-based transaction.

An arms-length transaction necessitates the need for an interactive website where patients can self-assess their functional communication ability

using a computerised and validated questionnaire, such as the abbreviated version of the Hearing Handicap Inventory. This website would also have Patient Decision Aids (PDAs), like the one shown in Figure 2, which consumers could use to make their own decisions about products to try.

Patients that have significant hearing handicap on the self-report would be strongly encouraged to schedule an appointment for a comprehensive assessment with the clinician. Others would be free to buy vetted hearables directly from the website. Patients that buy directly from the vetted list of hearables on the clinic's website would have an opportunity to visit the clinic for a fee-for-service appointment in which the hearable is acoustically and physically matched to the ear. After all, regardless of product category, audiology must own quality control in the ear.

Creating demand for new products and services should not be confined to vetted

hearables on a website. Clinicians must add new wrinkles to their existing clinical protocol, such as using more effective patient-centered communication focused on the stages of change model, screening for cognitive decline, pre-educating all patients on their device options, expanding their aural rehabilitation repertoire and conducting more demonstrations of hearable products. The current uncertainty within the profession, much of it a result of the morphing of traditional hearing aids and consumer electronics, is an opportunity for entrepreneurial audiologists to experiment with innovative service delivery options.

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Brian Taylor, AuD

Senior Director of Clinical Affairs for Turtle Beach / Hypersound, Darlington, UK; Clinical Advisor for Fuel Medica, Camas, WA; Adjunct Professor, AT Still University Arizona School of Health Sciences, Mesa, AZ, USA.

E: brian.taylor@turtlebeach.com; brian.taylor.aud@gmail.com

Declaration of competing interests: Brian Taylor is employed by Turtle Beach, the manufacturer of Hypersound.

ABOUT THE AUTHOR

Brian Taylor, AuD is the Senior Director of Clinical Affairs for Turtle Beach / Hypersound. He is also Clinical Advisor for Fuel Medical. Brian is an adjunct professor for AT Still University Arizona School of Health Sciences, and editor of Audiology Practices, the quarterly journal of the Academy of Doctors of Audiology. Since April 2015, Brian has also been editor of the Hearing News Section of the Hearing Healthcare and Technology Matters (HHTM) blog. He has written four books and several articles on a variety of topics related to audiology and practice management. Dr Taylor lives in Minnesota and can be contacted at brian. taylor.aud@gmail.com.