ABSTRACT

The purpose of this research project was to review the current research database and develop recommendations and supplemental materials to aid adults with hearing loss and risk or presence of cognitive decline. Through database search, evidence was collected from literature to determine professional recommended resources within the field of audiology and surrounding healthcare professions. Based on the literature, appropriate resources for retention of medical information in this population included supplemental written materials and supplemental video materials with family/caregiver involvement at sufficient reading levels were recommended. Resources were then created based on the literature recommendations for hearing aid fittings and follow-ups when working with older adult patients with or at risk of cognitive decline. The resources were created with a purpose to provide older adult patients with hearing loss and with or at risk of cognitive decline with additional support in the hearing aid rehabilitation process.

INTRODUCTION & CURRENT EVIDENCE BASE

- **Research Question:** What does the literature suggest in terms of recommendations and needs for treating older adults with hearing loss who may also have difficulties related to cognitive decline?
- With the aging population, the prevalence of age-related ailments, such as hearing loss and cognitive decline, are on the rise. Lin and colleagues (2011), found the prevalence of hearing loss in older adults was 63.1% in one or more ear and factors were strongly associated with age, sex, and race.
- Some older individuals struggle with cognitive decline and face obstacles, including impaired memory for new information (Wingfield et al., 2005). Due to impaired memory as a result of cognitive decline, older individuals may struggle to retain important instructions during audiology appointments.
- The American Academy of Audiology (AAA) Task Force developed guidelines for audiologic management of adult hearing impairment; however, there are no specific guidelines for adults with cognitive decline.
- Watson and McKinstry (2009) performed a systematic review of literature to determine the most effective supplemental materials for patients. The results indicated that written and audio-recorded methods of medical instructions were most effective.

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Aural Rehabilitation of Older Adults with or at risk for Cognitive Decline: Development of Recommendations and Supplemental Resources Based on Evidence from the Literature

Tavia Hoenecke; Research Advisors: Tina Stoody, PhD; Miranda Babiak, C.Sc.D.

STATEMENT OF CLINICAL PROBLEM

Rationale:

Due to two possible physiological changes of cognitive decline and/or hearing loss in aging adults, audiologists may find themselves fitting amplification on this population. There are currently no best practices guidelines available on this topic and audiologists should be better equipped with materials to assist these patients.

Hearing Aid Fittings:

A typical hearing aid fitting appointment consists of prior hearing aid selection, hearing aid verification, hearing aid validation, and counseling the patient on the device itself as well as any other assistive technology (Valente et al., 2006). At the UNC Audiology Clinic, a hearing aid fitting appointment is typically 1 hour in length. After the appointment, patients are expected to remember how to use the hearing device as well as any other assistive technology. Having a variety of supplemental hearing aid instruction materials available may reduce the challenges associated with cognitive decline.



APPROACHES TO CLINICAL PROBLEM

Proposed Solution:

In order to increase memory recall of information during a hearing aid fitting appointment, a variety of modes of presentation are essential. By modeling suggestions made by researchers on how to promote medical retention in the general population, audiologists should be equipped with supplemental materials to provide their patients.

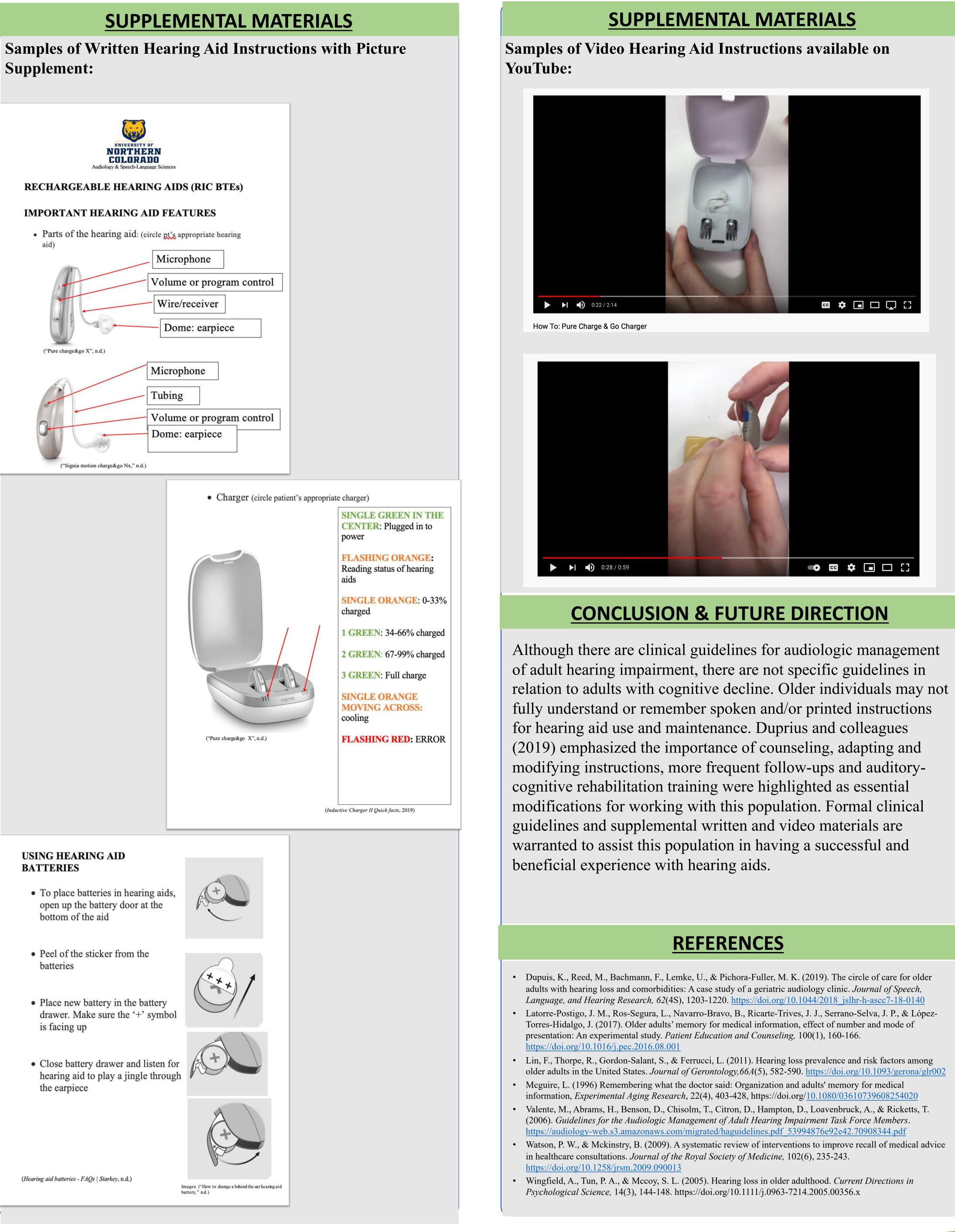
- . Written Hearing Aid Instructions with Picture Supplement
- 2. Video Hearing aid Instructions available on YouTube



(Youtube, n.d.)



Written Hearing Aid **Instructions with Picture** Supplement





older adults in the United States. Journal of Gerontology, 66A(5), 582-590. https://doi.org/10.1093/gerona/glr002