

Dysphagia and Oral Health: Implementing a Modified Free-Water Protocol in Long-term Care Residents

Objective

To examine the feasibility of implementing a modified free-water protocol with oral hygiene care.

Practice Points

- Routine oral hygiene care facilitated by a nursing staff member with a child-sized soft toothbrush was well-tolerated in older adults with neurocognitive decline.
- 2. The Registered Dental Hygienist (RDH)'s oral assessment and debridement of accumulations and biofilm can be effectively managed in the patient's own accommodation.
- Familiarity with the clinician, and the routine of the twice-daily oral cleaning promotes tolerance and cooperation. Individuals who can participate in their own oral hygiene self-care should still be encouraged to do so.
- 4. The modified free-water protocol aims to allow patients to quench their thirst with the idea that aspiration of water is likely to be a "benign" event. It is well tolerated and does not increase risk of respiratory infections in a cohort of older adults with dysphagia.

Methods (PI: Dr. R. DiDonato)

- 1. The participants (N=28) recruited and consented were older adult residents with neuro-cognitive degenerative disease from four nursing units at the Pleasant View Towers long-term care facility. These participants were randomly assigned either to the experimental (modified free-water protocol with oral care) or control condition ('friendly' visit) of the study. This prospective clinical trial was registered at www.clinicaltrials.gov (NCT03672552).
- 2. All participants received a clinical bedside oralpharyngeal dysphagia and mealtime assessment, the dental hygiene assessment and debridement of accumulations and biofilm (RDH), and a nutrition assessment.

- 3. A) The Experimental group received RDH debridement prior to implementing the modified Frazier free-water protocol (FFWP). The FFWP allows for ingestion of thin ('free') or non-thickened water or ice chips any time before or 30 minutes after a meal, following appropriate oral hygiene (tooth-brushing) prior to ingesting of thin water. The resident was approached twice daily (Monday-Friday) and offered the extra oral care prior to being offered the 3-ounces of thin-unmodified water.
 - B) The Control group received the RDH debridement at the end of the study period. The Control group received the 'sham' intervention; they were approached daily (Monday-Friday) and offered a 5-minute 'friendly' visit from a research assistant.

Results

 There was no significant difference for symptoms of respiratory infections (congestion, cough, fever, diagnosis of pneumonia or admission to hospital), but the power to detect a difference was low. However, feasibility for doing FFWP was demonstrated.

Conclusions

- 1. The FFWP was feasible and gave no signal for harm (first do no harm), consistent with reports from studies of older adults with dysphagia.
- 2. The FFWP offers an option for management of fluid restrictions for those with dysphagia, autonomy, and the pleasure and comfort for continued ingestion of thin water.