

# 2016 DRS FACULTY LISTING

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### *Financial Disclosure:*

Salary: Medical College of Wisconsin, Milwaukee, WI  
Faculty Concession/Honorarium received from the DRS  
*Nonfinancial Disclosure:*

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DRS 2016 Program Planning Committee;  
DRS Ad Hoc Early Investigator Initiative Committee

## Diane Bild, MD, MPH

### *Financial Disclosure:*

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### *Nonfinancial Disclosure:*

No relevant nonfinancial relationship exists

## Martin B. Brodsky, PhD, ScM, CCC-SLP

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Grant/Research Support: NIH/NIDCD  
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### *Nonfinancial Disclosure:*

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No relevant nonfinancial relationship exists

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Intellectual Property Rights: University of Wisconsin  
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Member: Dysphagia Research Society;  
DRS 2016 Program Planning Committee

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### *Nonfinancial Disclosure:*

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Committee – Chair; DRS Corporate Support Committee  
Board Member: DRS President-Elect

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No relevant nonfinancial relationship exists

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Royalty: Pearsons

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Royalty and Speaking Fee: Northern Speech Services

Equipment: Given Imaging

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# 2016 DRS FACULTY LISTING (CONTINUED)

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No relevant nonfinancial relationship exists

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No relevant nonfinancial relationship exists

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Advisory Committee or Review Panel:  
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Board Member: DRS Archivist

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Board Member: DRS Councilor

## Neelesh A. Tipnis, MD

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Honoraria and Speaking: Medical Measurement Systems  
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Stock Options for Medical Advisory: Rockwest Medical

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Member: North American Society for Pediatric Gastroenterology,  
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*All other faculty members, program planners and staff have indicated that they do not have any relevant financial relationships with commercial interests to disclose in regard to their presentations and/or participation in the planning process of the 24th DRS Annual Meeting and Post-Graduate Course. Disclosures for Scientific Session presenters and co-authors will be listed here: [http://www.dysphagiaresearch.org/resource/resmgr/Meeting\\_Files/DRS\\_2016\\_Annual\\_Mtg\\_and\\_Post.pdf](http://www.dysphagiaresearch.org/resource/resmgr/Meeting_Files/DRS_2016_Annual_Mtg_and_Post.pdf).*

**DYSPHAGIA RESEARCH SOCIETY  
ANNUAL MEETING  
FEBRUARY 25 - 27, 2016  
THE WESTIN LA PALOMA RESORT & SPA  
TUCSON, ARIZONA**

## **SCIENTIFIC PAPER DISCLOSURES**

## **CHILDREN WITH UNILATERAL SPASTIC CEREBRAL PALSY AND DYSPHAGIA PRESENT WITH MALADAPTIVE MORPHOMETRY IN CORTICAL AREAS ASSOCIATED WITH SWALLOWING**

Malandraki, Georgia A.<sup>1</sup>; Cameron, Eric<sup>2</sup>; Friel, Kathleen<sup>3,4</sup>; Dyke, Jonathan P.<sup>6</sup>; Sheppard, Justine J.<sup>5</sup>; Gordon, Andrew M.<sup>5</sup>

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2. School of Health Sciences, Purdue University, West Lafayette, IN, United States
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4. Weill Cornell Medical College, New York, NY, United States
5. Biobehavioral Sciences, Teachers College, Columbia University, New York, NY, United States
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## **FUNCTIONAL NEUROPLASTIC ADAPTATIONS OF THE SWALLOWING NETWORK IN CHILDREN WITH UNILATERAL SPASTIC CEREBRAL PALSY AND DYSPHAGIA: A RESTING-STATE FMRI STUDY**

Malandraki, Georgia A.<sup>1</sup>; Abbas, Kausar<sup>2</sup>; Friel, Kathleen<sup>3,4</sup>; Dreyer, Colleen<sup>1</sup>; Sheppard, Justine J.<sup>5</sup>; Gordon, Andrew M.<sup>5</sup>

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## **COMPARISON OF VISCOSITY BETWEEN STARCH-THICKENED NEONATAL FORMULA AND VFSS ASSESSMENT FLUIDS**

Madhoun, Lauren L.<sup>1,2</sup>; Wackler, Christina<sup>1</sup>; Sitaram, Swetha<sup>1</sup>; Hasenstab, Kathryn<sup>1</sup>; Jadcherla, Sudarshan R.<sup>1,3</sup>

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## **SPONTANEOUS SWALLOWING FREQUENCY, DYSPHAGIA, AND ORAL MORBIDITIES IN RCT TREATED HEAD/NECK CANCER PATIENTS**

Crary, Michael A.<sup>2</sup>; Carnaby, Giselle<sup>2</sup>; Madhavan, Aarthi <sup>1</sup>; Mendenhall, William<sup>3</sup>

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Michael Crary: Nothing to Disclose | Giselle Carnaby: Nothing to Disclose | Aarthi Madhavan: Nothing to Disclose | William Mendenhall: Nothing to Disclose

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## **COMPONENTS OF MEALTIME DURATION IN A NATURAL ENVIRONMENT CORRELATE WITH FEEDING AND SWALLOWING PERFORMANCE IN CHILDREN WITH CEREBRAL PALSY: A PILOT STUDY**

Mishra, Avinash<sup>1</sup>; Sheppard, Justine J.<sup>1</sup>; Malandraki, Georgia A.<sup>2</sup>

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## **A NOVEL TOOL FOR STANDARDIZATION OF VIDEOFLUOROSCOPIC SWALLOWING ASSESSMENT IN BOTTLE-FED CHILDREN**

Lefton-Greif, Maureen A.<sup>1,2,3,4</sup>; Carson, Kathryn A.<sup>6</sup>; Pinto, Jeanne<sup>1,2</sup>; McGrattan, Katlyn M.<sup>7</sup>; Wright, Jennifer M.<sup>2,5</sup>; Martin-Harris, Bonnie<sup>7</sup>

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Nothing to Disclose | Jennifer Wright: Nothing to Disclose | Bonnie Martin-Harris: Has a Non-Financial Disclosure Affiliation ;Dysphagia Research Society:Professional:Membership

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## VALIDITY AND RELIABILITY OF THE NEONATAL FEEDING ASSESSMENT SCALE (NFAS)

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2. Department of Speech-language Therapy and Audiology, University of Pretoria, Pretoria, Gauteng, South Africa

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Mari Viviers: Nothing to Disclose | Alta Kritzinger: Nothing to Disclose

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## VOLUME-DEPENDENT SWALLOWING PRESSURE VARIABILITY IN PATIENTS WITH PARKINSON DISEASE AND HEALTHY CONTROLS

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## CONTRASTING TWO PROPHYLACTIC-DYSPHAGIA INTERVENTIONS FOR PATIENTS WITH HEAD AND NECK CANCER TREATED WITH RADIOTHERAPY WITH OR WITHOUT ADJUNCTIVE CHEMOTHERAPY

Slovarp, Laurie<sup>1</sup>; Off, Catherine<sup>1</sup>

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---

## RANDOMIZED CONTROL TRIAL OF A SELF-MANAGEMENT ADHERENCE INTERVENTION FOR PREVENTIVE SWALLOWING EXERCISES IN LATE-STAGE HEAD AND NECK CANCER.

Shinn, Eileen<sup>1</sup>; Garden, Adam S.<sup>2</sup>; Lewin, Jan S.<sup>3</sup>; Alvarez, Clare P.<sup>3</sup>; Barringer, Denise<sup>3</sup>; Hutcheson, Katherine A.<sup>3</sup>; Basen-Engquist, Karen<sup>1</sup>; Li, Liang<sup>4</sup>

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Eileen Shinn: Has a Non-Financial Disclosure Affiliation ;UT MD Anderson:Professional:Membership | Adam Garden: Nothing to Disclose | Jan Lewin: Has a Non-Financial Disclosure Affiliation ;UT MD Anderson:Professional:Membership | Clare Alvarez: Nothing to Disclose | Denise Barringer: Nothing to Disclose | Katherine Hutcheson: Has a Non-Financial Disclosure Affiliation ;UT MD Anderson:Professional:Membership | Karen Basen-Engquist: Nothing to Disclose | Liang Li: Nothing to Disclose

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## RELATIONSHIP BETWEEN PATIENT- AND CLINICIAN-RATINGS OF SWALLOWING FUNCTION IN INDIVIDUALS WITH HEAD AND NECK CANCER (HNC)

Arrese, Loni<sup>1</sup>; Carrau, Ricardo <sup>1</sup>; Plowman, Emily<sup>2</sup>

1. Otolaryngology, The Ohio State University Arthur G. James Cancer Hospital and Richard J. Solove Research Institute, Worthington, OH, United States

2. Speech, Language and Hearing Sciences, University of Florida, Gainseville, FL, United States

**RELEVANT FINANCIAL RELATIONSHIPS** : Loni Arrese: Has affiliations to disclose;The Ohio State :Salary/Stipend:Employment | Ricardo Carrau: Has affiliations to disclose;The Ohio State:Salary/Stipend:Employment | Emily Plowman: Has affiliations to disclose;University of Florida:Salary/Stipend:Employment

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Loni Arrese: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership | Ricardo Carrau: Nothing to Disclose | Emily Plowman: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership

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## **LONGITUDINAL CHANGES IN THE SWALLOW STATUS OF HEAD AND NECK CANCER PATIENTS TREATED WITH SYSTEMIC THERAPY AND RADIOTHERAPY (RT): RESULTS OF A SWALLOWING SUBSTUDY OF NCIC CTG HN.6 (NCT00820248)**

Martino, Rosemary<sup>1,2,3,4</sup>; Parulekar, Wendy<sup>8</sup>; Shaw, Stephanie<sup>1</sup>; Greco, Elissa<sup>1</sup>; Barker, Jennifer<sup>1</sup>; Nault, Colette<sup>5</sup>; John, Waldron<sup>6</sup>; Siu, Lilian<sup>7</sup>; Montenegro-Suris, Alexander<sup>8</sup>; O'Sullivan, Brian<sup>6</sup>; Chen, Bingshu<sup>8</sup>; Ringash, Jolie<sup>6</sup>

1. Department of Speech Language Pathology, University Health Network, Toronto, ON, Canada

2. Toronto Western Research Institute, University Health Network, Toronto, ON, Canada

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5. Department of Speech Language Pathology, The Ottawa Hospital – General Campus, Ottawa, ON, Canada

6. Department of Radiation Oncology, Princess Margaret Cancer Centre, Toronto, ON, Canada

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8. NCIC Clinical Trials Group, Queens University, Kingston, ON, Canada

**RELEVANT FINANCIAL RELATIONSHIPS** : Rosemary Martino: Has affiliations to disclose;Amgen Inc (NCT00820248):Other Financial or Material Support:Other Activities | Wendy Parulekar: Has affiliations to disclose;Amgen Inc (NCT00820248):Other Financial or Material Support:Other Activities | Stephanie Shaw: Has affiliations to disclose;Amgen Inc (NCT00820248):Other Financial or Material Support:Other Activities | Elissa Greco: Has affiliations to disclose;Amgen Inc (NCT00820248):Other Financial or Material Support:Other Activities | Jennifer Barker: Has affiliations to disclose;Amgen Inc (NCT00820248):Other Financial or Material Support:Other Activities | Colette Nault: Has affiliations to disclose;Amgen Inc (NCT00820248):Other Financial or Material Support:Other Activities | Waldron John: Has affiliations to disclose;Amgen Inc (NCT00820248):Other Financial or Material Support:Other Activities | Lilian Siu: Has affiliations to disclose;Amgen Inc:Other Financial or Material Support:Other Activities | Alexander Montenegro-Suris: Has affiliations to disclose;Amgen Inc (NCT00820248):Other Financial or Material Support:Other Activities | Brian O'Sullivan: Has affiliations to disclose;Amgen Inc (NCT00820248):Other Financial or Material Support:Other Activities | Bingshu Chen: Has affiliations to disclose;Amgen Inc (NCT00820248):Other Financial or Material Support:Other Activities | Jolie Ringash: Has affiliations to disclose;Amgen Inc (NCT00820248):Other Financial or Material Support:Other Activities

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Rosemary Martino: Has a Non-Financial Disclosure Affiliation ;Dysphagia Research Society:Professional:Membership | Wendy Parulekar: Nothing to Disclose | Stephanie Shaw: Nothing to Disclose | Elissa Greco: Nothing to Disclose | Jennifer Barker: Nothing to Disclose | Colette Nault: Nothing to Disclose | Waldron John: Nothing to Disclose | Lilian Siu: Nothing to Disclose | Alexander Montenegro-Suris: Nothing to Disclose | Brian O'Sullivan: Nothing to Disclose | Bingshu Chen: Nothing to Disclose | Jolie Ringash: Nothing to Disclose

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## **EFFICACY OF PROPHYLACTIC SWALLOW INTERVENTIONS FOR HEAD AND NECK CANCER PATIENTS: A RANDOMIZED CONTROLLED TRIAL**

Messing, Barbara P.<sup>1</sup>; Ward, Elizabeth<sup>2,3</sup>; Lazarus, Cathy<sup>4,5</sup>; Kim, Melissa <sup>1</sup>; Gold, Dorothy<sup>1</sup>; Ulmer, Karen<sup>1</sup>; Harrer, Karen B.<sup>1</sup>; Merritt, Samantha J.<sup>1</sup>

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4. Department of Otolaryngology, Icahn School of Medicine at Mount Sinai , New York, NY, United States

5. Department of Otolaryngology Head & Neck Surgery, Thyroid Head and Neck Research Center, New York, NY, United States

**RELEVANT FINANCIAL RELATIONSHIPS** : Barbara Messing: Has affiliations to disclose;GBMC:Salary/Stipend:Employment;Dance Endowment:Scholarship:Other Activities;Loyola University:Salary/Stipend:Teaching and speaking | Elizabeth Ward: Has affiliations to disclose;The University of Queensland:Salary/Stipend:Employment;Queensland Health:Salary/Stipend:Employment;LSVT Global:Speaking fee:Teaching and speaking | Cathy Lazarus: Has affiliations to disclose;Mount Sinai Beth Israel:Salary/Stipend:Employment; Northern Speech Services:Royalty:Teaching and speaking | Melissa Kim: Has affiliations to disclose;GBMC:Salary/Stipend:Employment | Dorothy Gold: Has affiliations to disclose;GBMC:Salary/Stipend:Employment | Karen Ulmer: Has affiliations to

disclose;GBMC:Salary/Stipend:Employment | Karen Harrer: Has affiliations to disclose;GBMC:Salary/Stipend:Employment | Samantha Merritt: Has affiliations to disclose;GBMC:Salary/Stipend:Employment

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Barbara Messing: Has a Non-Financial Disclosure Affiliation ;Dance Endowment:Professional:Board membership;Dysphagia Research Society:Professional:Membership;American Board Swallowing and Swallowing Disorders:Professional:Board membership;ASHA:Professional:Membership | Elizabeth Ward: Has a Non-Financial Disclosure Affiliation ;SPA member:Professional:Membership | Cathy Lazarus: Has a Non-Financial Disclosure Affiliation ;DRS member:Professional:Membership;American Board Swallowing and Swallowing Disorders:Professional:Volunteer membership on advisory committee or review panels | Melissa Kim: Has a Non-Financial Disclosure Affiliation ;ASHA:Professional:Membership | Dorothy Gold: Has a Non-Financial Disclosure Affiliation ;SPOHNC:Professional:Board membership;Jewish Volunteer Connection:Religious:Board membership;AOSW:Professional:Membership | Karen Ulmer: Has a Non-Financial Disclosure Affiliation ;Society of Otorhinolaryngology, Head-Neck Nurses Inc SOHN:Professional:Volunteer membership on advisory committee or review panels;Boy Scouts:Personal:Volunteer membership on advisory committee or review panels;Oncology Nursing Society ONS:Professional:Membership | Karen Harrer: Nothing to Disclose | Samantha Merritt: Nothing to Disclose

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## **DYNAMIC IMAGING GRADE OF SWALLOWING TOXICITY (DIGEST): SCALE DEVELOPMENT AND VALIDATION**

Hutcheson, Katherine A.<sup>1</sup>; Barringer, Denise<sup>1</sup>; Knott, Jodi K.<sup>1</sup>; Lin, Heather<sup>1</sup>; Weber, Randal S.<sup>1</sup>; Fuller, Clifton D.<sup>1</sup>; Lazarus, Cathy<sup>3</sup>; May, Annette H.<sup>4</sup>; Patterson, Joanne M.<sup>5</sup>; Roe, Justin W.<sup>6</sup>; Starmer, Heather M.<sup>2</sup>; Lewin, Jan S.<sup>1</sup>

1. The University of Texas MD Anderson Cancer Center, Houston, TX, United States
2. Stanford University School of Medicine, Stanford, CA, United States
3. Mt. Sinai Beth Israel Medical Center, New York, NY, United States
4. University of Florida Health Cancer Center - Orlando Health, Orlando, FL, United States
5. Sunderland Royal Hospital, Sunderland, United Kingdom
6. Royal Marsden Hospital, London, United Kingdom

**RELEVANT FINANCIAL RELATIONSHIPS :** Katherine Hutcheson: Nothing to Disclose | Denise Barringer: Nothing to Disclose | Jodi Knott: Nothing to Disclose | Heather Lin: Nothing to Disclose | Randal Weber: Nothing to Disclose | Clifton Fuller: Nothing to Disclose | Cathy Lazarus: Nothing to Disclose | Annette May: Nothing to Disclose | Joanne Patterson: Nothing to Disclose | Justin Roe: Nothing to Disclose | Heather Starmer: Nothing to Disclose | Jan Lewin: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Katherine Hutcheson: Nothing to Disclose | Denise Barringer: Nothing to Disclose | Jodi Knott: Nothing to Disclose | Heather Lin: Nothing to Disclose | Randal Weber: Nothing to Disclose | Clifton Fuller: Nothing to Disclose | Cathy Lazarus: Nothing to Disclose | Annette May: Nothing to Disclose | Joanne Patterson: Nothing to Disclose | Justin Roe: Nothing to Disclose | Heather Starmer: Nothing to Disclose | Jan Lewin: Nothing to Disclose

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## **VIDEOFLUOROSCOPY DOES NOT ACCURATELY DIAGNOSE UPPER ESOPHAGEAL STRICTURE**

Maclean, Julia <sup>1</sup>; Szczesniak, Michal<sup>1,2</sup>; O'Hare, Jolyne<sup>1</sup>; Humbert, Ianessa A.<sup>4</sup>; Vose, Alicia<sup>5</sup>; Wu, Peter<sup>1</sup>; Graham, Peter<sup>1</sup>; Quon, Harry<sup>3</sup>; Cook, Ian<sup>1,2</sup>

1. St George Hospital, Sydney, New South Wales, Australia
2. University of NSW, Sydney, New South Wales, Australia
3. Department of Radiation Oncology and Molecular Radiation Sciences, Johns Hopkins University, Baltimore, MD, United States
4. Department of Speech, Language and Hearing Sciences, University of Florida, Gainesville, FL, United States
5. Department of Public Health and Health Professions, University of Florida, Gainesville, FL, United States

**RELEVANT FINANCIAL RELATIONSHIPS :** Julia Maclean: Nothing to Disclose | Michal Szczesniak: Has affiliations to disclose;NHMRC:Salary/Stipend:Employment | Jolyne O'Hare: Nothing to Disclose | Ianessa Humbert: Nothing to Disclose | Alicia Vose: Has affiliations to disclose;Department of Public Health and Health Professions, University of Florida:Salary/Stipend:Employment | Peter Wu: Nothing to Disclose | Peter Graham: Nothing to Disclose | Harry Quon: Nothing to Disclose | Ian Cook: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Julia Maclean: Nothing to Disclose | Michal Szczesniak: Nothing to Disclose | Jolyne O'Hare: Nothing to Disclose | Ianessa Humbert: Nothing to Disclose | Alicia Vose: Nothing to Disclose | Peter Wu: Nothing to Disclose | Peter Graham: Nothing to Disclose | Harry Quon: Nothing to Disclose | Ian Cook: Nothing to Disclose

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## **THE EFFECT OF TOPICAL NASAL ANESTHETIC ON TOLERABILITY AND PHARYNGEAL PRESSURE IN HEALTHY ADULTS: A DOUBLE-BLIND, RANDOMIZED STUDY**

Lamvik, Kristin M.<sup>1,2</sup>; Apperley, Olivia<sup>3</sup>; Huckabee, Maggie-Lee<sup>1,2</sup>

1. University of Canterbury Rose Centre for Stroke Recovery and Research , Christchurch, New Zealand
2. Department of Communication Disorders, University of Canterbury, Christchurch, New Zealand
3. Oral Health Centre, Christchurch, New Zealand

**RELEVANT FINANCIAL RELATIONSHIPS** : Kristin Lamvik: Has affiliation to disclose; New Zealand Brain Research Institute Doctoral:Scholarship:Other Activities| Olivia Apperley: Nothing to Disclose | Maggie-Lee Huckabee: Has affiliations to disclose; The University of Canterbury: Salary/Stipend: Employment; Plural Publishing:Royalty:Other Activities

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Kristin Lamvik: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership | Olivia Apperley: Nothing to Disclose | Maggie-Lee Huckabee: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership

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## **THE EFFECTS OF ESOPHAGEAL MECHANICAL STIMULATIONS ON EVOKING SWALLOWING REFLEX IN HEALTHY YOUNG INDIVIDUALS.**

Taniguchi, Hiroshige<sup>1</sup>; Nakagawa, Kazuharu<sup>1</sup>; Matsuo, Koichiro<sup>1</sup>

1. Department of Dentistry, School of Medicine, Fujita Health University, Toyoake, Aichi, Japan

**RELEVANT FINANCIAL RELATIONSHIPS** : Hiroshige Taniguchi: Nothing to Disclose | Kazuharu Nakagawa: Nothing to Disclose | Koichiro Matsuo: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Hiroshige Taniguchi: Nothing to Disclose | Kazuharu Nakagawa: Nothing to Disclose | Koichiro Matsuo: Nothing to Disclose

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## **ASSESSING FEASIBILITY OF TWO NOVEL TONGUE BASE RESISTANCE EXERCISES**

Slovarp, Laurie<sup>1</sup>; King, Lauren<sup>1</sup>; Off, Catherine<sup>1</sup>

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**Relevant Financial Relationships:** Laurie Slovarp: Has affiliations to disclose; The University of Montana: Salary/Stipend: Employment | Lauren King: Nothing to disclose | Catherine Off: Nothing to disclose

**Relevant Non-Financial Relationships:** Laurie Slovarp: Nothing to disclose | Lauren King: Nothing to disclose | Catherine Off: Nothing to disclose

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## **PRESSURE TOPOGRAPHY METRICS FOR HIGH-RESOLUTION PHARYNGEAL-ESOPHAGEAL MANOFLUOROGRAPHY - A NORMATIVE STUDY OF YOUNGER AND OLDER ADULTS**

Nativ-Zeltzer, Nogah<sup>1</sup>; Logemann, Jeri A.<sup>1</sup>; Zecker, Steven<sup>1</sup>; Kahrilas, Peter J.<sup>2</sup>

1. Communication Sciences and Disorders, Northwestern University, Sunnyvale, CA, United States

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**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Nogah Nativ-Zeltzer: Nothing to Disclose | Jeri Logemann: Nothing to Disclose | Steven Zecker: Nothing to Disclose | Peter Kahrilas: Nothing to Disclose

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## **PREDICTING THE ACTIVATION STATES OF THE MUSCLES GOVERNING UPPER ESOPHAGEAL SPHINCTER RELAXATION AND OPENING**

Omari, Taher<sup>1</sup>; Cock, Charles<sup>2</sup>; Jones, Corinne A.<sup>3</sup>; Hammer, Michael J.<sup>3</sup>; McCulloch, Timothy<sup>3</sup>

1. Human Physiology, Flinders University, Adelaide, South Australia, Australia

2. Gastroenterology, Flinders Medical Centre, Adelaide, South Australia, Australia

3. Department of Surgery, Division of Otolaryngology, University of Wisconsin, Madison, WI, United States

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| Michael Hammer: Nothing to Disclose | Timothy McCulloch: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Taher Omari: Nothing to Disclose | Charles Cock: Nothing to Disclose | Corinne Jones: Nothing to Disclose | Michael Hammer: Nothing to Disclose | Timothy McCulloch: Nothing to Disclose

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## **THE ROLE OF THE CORPUS CALLOSUM IN PEDIATRIC DYSPHAGIA: PRELIMINARY FINDINGS FROM A DIFFUSION TENSOR IMAGING (DTI) STUDY IN CHILDREN WITH CONGENITAL LEFT-HEMISPHERE LESIONS**

Mourao, Lucia F.<sup>1,2,3</sup>; Malandraki, Georgia A.<sup>2,3</sup>; Kantarcigil, Cagla<sup>2</sup>; Luchesi, Karen<sup>4</sup>; Gordon, Andrew M.<sup>3</sup>; Friel, Kathleen<sup>5</sup>

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2. Speech, Language, Hearing Sciences, Purdue University, West Lafayette, IN, United States

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4. Ciencias da Saude, University federal of Santa Catarina, Florianopolis, Santa Catarina, Brazil
5. Burke-Cornell Medical Research Institute, Weill Cornell Medical College, White Plains, NY, United States

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**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Lucia Mourao: Nothing to Disclose | Georgia Malandraki: Nothing to Disclose | Cagla Kantarcigil: Nothing to Disclose | Karen Luchesi: Nothing to Disclose | Andrew Gordon: Nothing to Disclose | Kathleen Friel: Nothing to Disclose

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### **SALIVA SWALLOWING FREQUENCY MEASURED USING 24-HOURS AMBULATORY IMPEDANCE-PH MONITORING IN PATIENTS WITH PARKINSON'S DISEASE AND DROOLING**

Scholten, Saskia<sup>1</sup>; Hopman, Wim <sup>2</sup>; Kalf, Hanneke<sup>3</sup>

1. Department of Speech Therapy, Rivierenland General Hospital, Tiel, Netherlands
2. Department of Gastroenterology and Hepatology, Radboud University Medical Centre, Nijmegen, Netherlands
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**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Saskia Scholten: Nothing to Disclose | Wim Hopman: Nothing to Disclose | Hanneke Kalf: Nothing to Disclose

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### **VOLITIONAL UP-REGULATION OF REFLEX AND VOLUNTARY COUGH IN HEALTHY OLDER ADULTS AND PARKINSON'S DISEASE**

Brandimore, Alexandra E.<sup>1</sup>; Hegland, Karen<sup>2</sup>; Troche, Michelle S.<sup>1</sup>

1. Speech, Language, & Hearing Sciences, Teachers College, Columbia University, Gainesville, FL, United States
2. Speech, Language & Hearing Sciences, University of Florida, Gainesville, FL, United States

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**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Alexandra Brandimore: Nothing to Disclose | Karen Hegland: Nothing to Disclose | Michelle Troche: Nothing to Disclose

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### **AIRWAY PROTECTION IN PARKINSON'S DISEASE IMPROVES AFTER INTENSIVE THERAPY**

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1. University of Wisconsin, Madison, WI, United States

**RELEVANT FINANCIAL RELATIONSHIPS :** Michael Hammer: Nothing to Disclose | Stephanie Palm: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Michael Hammer: Nothing to Disclose | Stephanie Palm: Nothing to Disclose

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### **BIOFEEDBACK-ASSISTED SWALLOWING SKILL TRAINING – CORRELATION BETWEEN CHANGES IN CORTICAL EXCITABILITY AND SWALLOWING ACCURACY**

Caruana, Adam<sup>1</sup>; Huckabee, Maggie-Lee<sup>3</sup>; Bradnam, Lynley<sup>2</sup>; Doeltgen, Sebastian<sup>1</sup>

1. Speech Pathology, Flinders University, Adelaide, South Australia, Australia
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**RELEVANT FINANCIAL RELATIONSHIPS :** Adam Caruana: Nothing to Disclose | Maggie-Lee Huckabee: Has affiliations to disclose;University of Canterbury:Salary/Stipend:Employment | Lynley Bradnam: Has affiliations to disclose;University of Technology Sydney:Salary/Stipend:Employment | Sebastian Doeltgen: Has affiliations to disclose;Flinders University:Salary/Stipend:Employment

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Adam Caruana: Nothing to Disclose | Maggie-Lee Huckabee: Has a Non-Financial Disclosure Affiliation ;Dysphagia Research Society:Other relationship:Membership | Lynley Bradnam: Nothing to Disclose | Sebastian Doeltgen: Has a Non-Financial Disclosure Affiliation ;Dysphagia Research Society:Other relationship:Volunteer membership on advisory committee or review panels

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## **FMRI OUTCOMES AND SWALLOWING BEHAVIOR POST OROPHARYNGEAL STRENGTHENING IN DYSPHAGIC PATIENTS**

Robbins, JoAnne<sup>1,2</sup>; Rogus-Pulia, Nicole<sup>1,2</sup>; Rusche, Nicole<sup>1</sup>; Nair, Veena A.<sup>3</sup>; Vergun, Svyatoslav<sup>4,3</sup>; Prabhakaran, Vivek<sup>3</sup>

1. GRECC, Wm. S. Middleton Veteran's Memorial Hospital, Madison, WI, United States

2. Medicine, University of Wisconsin, Madison, WI, United States

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4. Medical Physics, University of Wisconsin, Madison, WI, United States

**RELEVANT FINANCIAL RELATIONSHIPS :** JoAnne Robbins: Has affiliations to disclose; University of Wisconsin-Madison: Salary/Stipend: Employment; William S. Middleton Memorial VA Hospital: Salary/Stipend: Employment; Infinity Rehab: Honoraria: Teaching and speaking; Retirement Research Foundation: Honoraria: Teaching and speaking; Rehabilitation Institute of Chicago: Honoraria: Teaching and speaking; Northern Speech Services/John Wiley and Sons: Royalty: Other Activities | Nicole Rogus-Pulia: Has affiliations to disclose; William S. Middleton Memorial VA Hospital: Salary/Stipend: Employment | Nicole Rusche: Has affiliations to disclose; Wm. S. Middleton Memorial VA Hospital: Salary/Stipend: Employment | Veena Nair: Has affiliations to disclose; University of Wisconsin-Madison: Salary/Stipend: Employment | Svyatoslav Vergun: Has affiliations to disclose; University of Wisconsin-Madison: Salary/Stipend: Employment | Vivek Prabhakaran: Has affiliations to disclose; University of Wisconsin-Madison: Salary/Stipend: Employment

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** JoAnne Robbins: Has a Non-Financial Disclosure Affiliation ; Wisconsin Alumni. Research Foundation: Other relationship: Other volunteer activities; Swallow Solutions, LLC: Professional: Board membership | Nicole Rogus-Pulia: Nothing to Disclose | Nicole Rusche: Nothing to Disclose | Veena Nair: Nothing to Disclose | Svyatoslav Vergun: Nothing to Disclose | Vivek Prabhakaran: Nothing to Disclose

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## **THE EFFECT OF TASTE ON SWALLOWING ELICITATION AND CORTICAL ACTIVITY USING FUNCTIONAL NEAR-INFRARED SPECTROSCOPY**

Mulheren, Rachel<sup>1</sup>; Ludlow, Christy L.<sup>2</sup>

1. Johns Hopkins School of Medicine, Baltimore, MD, United States

2. James Madison University, Harrisonburg, VA, United States

**RELEVANT FINANCIAL RELATIONSHIPS :** Rachel Mulheren: Has affiliations to disclose; Johns Hopkins University School of Medicine, Johns Hopkins Hospital: Salary/Stipend: Employment | Christy Ludlow: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Rachel Mulheren: Nothing to Disclose | Christy Ludlow: Nothing to Disclose

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## **EVALUATION OF PHARYNGEAL SWALLOWING DURING WAKE AND SLEEP: A HIGH-RESOLUTION MANOMETRY STUDY**

Lamvik, Kristin M.<sup>1,2</sup>; Guiu-Hernandez, Esther<sup>1,2</sup>; Jones, Richard<sup>1,2,3,4,5</sup>; Huckabee, Maggie-Lee<sup>1,2</sup>

1. Department of Communication Disorders, University of Canterbury, Christchurch, New Zealand

2. The University of Canterbury Rose Centre for Stroke Recovery and Research, Christchurch, New Zealand

3. Department of Medical Physics & Bioengineering, Christchurch Hospital, Christchurch, New Zealand

4. New Zealand Brain Research Institute, Christchurch, New Zealand

5. Department of Medicine, University of Otago, Christchurch, New Zealand

**RELEVANT FINANCIAL RELATIONSHIPS :** Kristin Lamvik: New Zealand Brain Research Institute Doctoral: Scholarship: Other Activities | Esther Guiu-Hernandez: Has affiliations to disclose; The University of Canterbury: Salary/Stipend: Employment; | Richard Jones: Nothing to Disclose | Maggie-Lee Huckabee: Has affiliations to disclose; The University of Canterbury: Salary/Stipend: Employment; Plural Publishing: Royalty: Other Activities

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Kristin Lamvik: Has a Non-Financial Disclosure Affiliation ; DRS: Professional: Membership | Esther Guiu-Hernandez: Nothing to Disclose | Richard Jones: Nothing to Disclose | Maggie-Lee Huckabee: Has a Non-Financial Disclosure Affiliation ; DRS: Professional: Membership

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## **MULTI-SITE OUTCOMES FROM THE SWALLOW STRONG CLINIC**

Rogus-Pulia, Nicole<sup>1</sup>; Rusche, Nicole<sup>1</sup>; Zielinski, Jill J.<sup>4</sup>; Safdar, Nasia<sup>3,5</sup>; Gangnon, Ronald<sup>2</sup>; Hind, Jacqueline<sup>6,7</sup>; Robbins, JoAnne<sup>6,1</sup>

1. Geriatric Research Education and Clinical Center (GRECC), William S. Middleton Memorial Veterans Hospital, Madison, WI, United States

2. Biostatistics and Medical Informatics, University of Wisconsin-Madison, Madison, WI, United States

3. Infectious Disease, William S. Middleton Memorial Veterans Hospital, Madison, WI, United States

4. Speech Pathology, William S. Middleton Memorial Veterans Hospital, Madison, WI, United States

5. Infectious Disease, University of Wisconsin-Madison, Madison, WI, United States
6. Medicine, University of Wisconsin-Madison, Madison, WI, United States
7. Swallow Solutions, Madison, WI, United States

**RELEVANT FINANCIAL RELATIONSHIPS :** Nicole Rogus-Pulia: Has affiliations to disclose;Department of Veterans Affairs:Salary/Stipend:Employment | Nicole Rusche: Has affiliations to disclose;Department of Veterans Affairs:Salary/Stipend:Employment | Jill Zielinski: Has affiliations to disclose;Department of Veterans Affairs:Salary/Stipend:Employment | Nasia Safdar: Has affiliations to disclose;Department of Veterans Affairs:Salary/Stipend:Employment | Ronald Gangnon: Has affiliations to disclose;University of Wisconsin:Salary/Stipend:Employment | Jacqueline Hind: Has affiliations to disclose;University of Wisconsin:Salary/Stipend:Employment;Swallow Solutions:Salary/Stipend:Employment | JoAnne Robbins: Has affiliations to disclose;University of Wisconsin:Salary/Stipend:Employment;Department of Veterans Affairs:Salary/Stipend:Employment;Swallow Solutions:Ownership interest(e.g.,stocks, stock options or other ownership interest excluding diversified mutual funds):Board membership

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Nicole Rogus-Pulia: Has a Non-Financial Disclosure Affiliation ;Dysphagia Research Society:Professional:Membership | Nicole Rusche: Nothing to Disclose | Jill Zielinski: Nothing to Disclose | Nasia Safdar: Nothing to Disclose | Ronald Gangnon: Nothing to Disclose | Jacqueline Hind: Has a Non-Financial Disclosure Affiliation ;Dysphagia Research Society:Professional:Membership | JoAnne Robbins: Has a Non-Financial Disclosure Affiliation ;Dysphagia Research Society:Professional:Membership

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## **EFFECTS OF PAPAYA ENZYMES ON DYSPHAGIA AND THE ACTIVATION OF SALIVARY GLANDS TO INCREASE SALIVA PRODUCTION.**

Rowe, Martha j.<sup>1</sup>; Mitchell, Ian<sup>1</sup>; Smith , Greg<sup>1</sup>; Davis, Natalie<sup>1</sup>; Smith, Dan<sup>1</sup>; Clements, Kevin<sup>1</sup>; Darren, Rowe<sup>1</sup>

1. MMAT, Nhill, Victoria, Australia

**RELEVANT FINANCIAL RELATIONSHIPS :** Martha Rowe: Nothing to Disclose | Ian Mitchell: Nothing to Disclose | Greg Smith : Nothing to Disclose | Natalie Davis: Nothing to Disclose | Dan Smith: Nothing to Disclose | Kevin Clements: Nothing to Disclose | Rowe Darren: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Martha Rowe: Nothing to Disclose | Ian Mitchell: Nothing to Disclose | Greg Smith : Nothing to Disclose | Natalie Davis: Nothing to Disclose | Dan Smith: Nothing to Disclose | Kevin Clements: Nothing to Disclose | Rowe Darren: Nothing to Disclose

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## **THE CHANGES IN ORAL BACTERIA AMOUNTS DURING ORAL CARE IN CRITICALLY ILL PATIENTS WITH ENDOTRACHEAL INTUBATION AND AFTER EXTUBATION**

Matsuo, Koichiro<sup>1</sup>; Muramatsu, Keita<sup>2</sup>; watanabe, risa<sup>2</sup>; Hara, Yoshitaka<sup>3</sup>; Shimomura, Yasuyo<sup>3</sup>; Yamashita, Chizuru<sup>3</sup>; Nishida, Osamu<sup>3</sup>; Kawai, Yusuke<sup>2</sup>; Amano, Kousuke<sup>2</sup>; Yamamoto, Tsukasa<sup>2</sup>

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## **EFFECTS OF TASTE MANIPULATION ON SWALLOW FUNCTION IN SENSORY-BASED DYSPHAGIA**

Dietsch, Angela M.<sup>1,2,3</sup>; Dorris, Hugh D.<sup>4</sup>; Pearson, William G.<sup>4</sup>; Dietrich-Burns, Katie<sup>2,3</sup>; Solomon, Nancy P.<sup>2</sup>

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**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Angela Dietsch: Nothing to Disclose | Hugh Dorris: Nothing to Disclose | William Pearson: Nothing to Disclose | Katie Dietrich-Burns: Nothing to Disclose | Nancy Solomon: Nothing to Disclose

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## **THE NOVEL “SHAKER RESISTANCE EXERCISE DEVICE” (SHRED): EFFECT ON PHARYNGEAL DEGLUTITIVE PRESSURE PHENOMENA**

Kern, Mark<sup>1</sup>; Balasubramanian, Gokulakrishnan<sup>1</sup>; Mei, Ling<sup>1</sup>; Sanvanson, Patrick P.<sup>1</sup>; Shaker, Reza<sup>1</sup>

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## **RATE OF EXERCISE PREDICTS VIDEOFLUOROSCOPIC OUTCOMES IN INPATIENT SWALLOWING REHABILITATION**

Pitts, Laura<sup>1,2</sup>; Ruzicka, Rene<sup>2</sup>; Doyle, Anne Marie<sup>2</sup>; Cherney, Leora<sup>2</sup>

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**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Laura Pitts: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership;ASHA:Professional:Membership;IOPI Medical:Professional:Vounteer consulting;BellDev Medical:Professional:Vounteer consulting | Rene Ruzicka: Has a Non-Financial Disclosure Affiliation ;ASHA:Professional:Membership | Anne Marie Doyle: Has a Non-Financial Disclosure Affiliation ;ASHA:Professional:Membership | Leora Cherney: Has a Non-Financial Disclosure Affiliation ;American Speech Language and Hearing Association:Professional:Membership

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## **THE INFLUENCE OF AGE, GENDER, LOCATION, VOLUME, EFFORT AND CONSISTENCY ON PERCENTAGE OF MAXIMAL LINGUAL SWALLOWING PRESSURES (PPS) IN HEALTHY BELGIAN ADULTS**

Vanderwegen, Jan<sup>2,1</sup>; Van Nuffelen, Gwen<sup>3</sup>; Guns, Cindy<sup>3</sup>; Elen, Rik<sup>2</sup>

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## **REFERENCE VALUES FOR TIMING AND KINEMATIC MEASURES OF FUNCTIONAL SWALLOWING BY CONSISTENCY.**

Steele, Catriona M.<sup>1</sup>; Peladeau-Pigeon, Melanie<sup>1</sup>; Waito, Ashley A.<sup>1</sup>; Wolkin, Talia S.<sup>1</sup>

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**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Catriona Steele: Nothing to Disclose | Melanie Peladeau-Pigeon: Nothing to Disclose | Ashley Waito: Nothing to Disclose | Talia Wolkin: Nothing to Disclose

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### **POST-EXTUBATION DYSPHAGIA: DOES TIMING OF EVALUATION MATTER?**

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**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Stevie Marvin: Nothing to Disclose | Susan Thibeault: Nothing to Disclose | William Ehlenbach: Nothing to Disclose

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### **DYSPHAGIA SEVERITY: ASSESSING THE PREDICTIVE CAPACITY OF MBSIMP COMPONENT SCORES**

Hill, Elizabeth G.<sup>1,5</sup>; Martin-Harris, Bonnie<sup>2,3</sup>; Armeson, Kent<sup>1,5</sup>; Garand, Kendrea L.<sup>2,3</sup>; Hazelwood, R. Jordan<sup>4</sup>; Blair, Julie<sup>2,3</sup>

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**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Elizabeth Hill: Nothing to Disclose | Bonnie Martin-Harris: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership;Dysphagia Journal:Professional: Other volunteer activities;DRS:Professional:Volunteer membership on advisory committee or review panels;ASHA:Professional:Membership;ASHA:Professional:Volunteer membership on advisory committee or review panels | Kent Armeson: Nothing to Disclose | Kendrea Garand: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership;ASHA:Professional:Membership;ASHA SIG 13:Professional:Membership;ASHA SIG 2:Professional:Membership | R. Jordan Hazelwood: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership;ASHA:Professional:Membership;ASHA:Professional:Volunteer membership on advisory committee or review panels;SCSHA:Professional:Membership;Dysphagia Journal:Professional: Other volunteer activities | Julie Blair: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership;SIG 13:Professional:Membership;NSDOF:Professional:Membership;Head and Neck Cancer Alliance:Professional:Membership;ONS:Professional:Membership

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### **SWALLOWING MECHANICS UNDERLYING RESPIRATORY-SWALLOW TRAINING DIFFER BY SUBJECT**

Pearson, William G.<sup>1</sup>; Dorris, Hugh D.<sup>1</sup>; Tran, Thi T.<sup>2</sup>; Blair, Julie<sup>3</sup>; Martin-Harris, Bonnie<sup>3</sup>

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Activities;Given Imaging:Other Financial or Material Support:Other Activities; Northern Speech Services:Royalty:Teaching and speaking

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** William Pearson: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership | Hugh Dorris: Nothing to Disclose | Thi Tran: Nothing to Disclose | Julie Blair: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership;ASHA:Professional:Membership | Bonnie Martin-Harris: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership;ASHA:Professional:Membership

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## **OROPHARYNGEAL SWALLOW PHYSIOLOGY AND SWALLOWING-RELATED QUALITY OF LIFE IN PATIENTS WITH ADVANCED, STABLE CHRONIC OBSTRUCTIVE PULMONARY DISEASE AND CONCOMITANT CACHEXIA**

Garand, Kendrea L.<sup>2,1,3</sup>; Strange, Charlton B.<sup>5</sup>; Paoletti, Luca<sup>5</sup>; McFarland, David<sup>6,7</sup>; Martin-Harris, Bonnie<sup>1,4</sup>

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4. Surgery, Ralph H Johnson VAMC, Charleston, SC, United States
5. Pulmonary and Critical Care, MUSC, Charleston, SC, United States
6. Medicine, University of Montreal, Montreal, QC, Canada
7. Communication Sciences and Disorders, McGill University, Montreal, QC, Canada

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**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Kendrea Garand: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership;ASHA:Professional:Membership;ASHA SIG13:Professional:Membership;ASHA SIG2:Professional:Membership | Charlton Strange: Nothing to Disclose | Luca Paoletti: Has a Non-Financial Disclosure Affiliation ;The International Society of Heart and Lung Transplantation:Professional:Membership;American Thoracic Society:Professional:Membership;Society of Critical Care Medicine:Professional:Membership;American College of Chest Physicians:Professional:Membership;American College of Physicians:Professional:Membership;Journal of Respiratory Medicine:Professional:Volunteer membership on advisory committee or review panels | David McFarland: Has a Non-Financial Disclosure Affiliation ;ASHA:Professional:Membership;Speech-Language and Audiology Canada:Professional:Membership;OOAQ:Professional:Membership;ASHA SIG13:Professional:Membership;McGill University:Professional:Volunteer teaching and speaking | Bonnie Martin-Harris: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership;Dysphagia Journal:Professional: Other volunteer activities;ASHA:Professional:Membership;ASHA:Professional:Volunteer membership on advisory committee or review panels;DRS:Professional:Volunteer membership on advisory committee or review panels

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## **EFFECTS OF TONGUE EXERCISE, ELECTRICAL STIMULATION, OR BOTH ON TONGUE MUSCLE CONTRACTILE PROPERTIES**

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## **RECURRENT LARYNGEAL NERVE (RLN) LESIONS CAUSE CHANGES IN ORAL AND PHARYNGEAL EMG SIGNALS DURING SWALLOWING**

Gould, Francois D.<sup>1</sup>; Ohlemacher, Jocelyn<sup>1</sup>; Thexon, Allan<sup>1</sup>; Ballester, Ashley<sup>1</sup>; Fraley, Luke<sup>1</sup>; Gross, Andrew<sup>1</sup>

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### **RECURRENT LARYNGEAL NERVE LESION IMPACT ON LARYNGEAL VESTIBULAR CLOSURE**

Gross, Andrew<sup>1</sup>; Gould, Francois D.<sup>1</sup>; Ohlemacher, Jocelyn<sup>1</sup>; Yglesias, Benjamin<sup>1</sup>; german, rz<sup>1</sup>

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### **THE EFFECT OF NEUROMUSCULAR ELECTRICAL STIMULATION DOSE ON TONGUE MUSCLES**

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### **A SURGICAL MOUSE MODEL OF IATROGENIC LARYNGEAL NERVE INJURY**

Newberry, Christopher I.<sup>1</sup>; Lever, Teresa<sup>2</sup>; Allen, Jakob<sup>1</sup>; Thiessen, Aaron<sup>2</sup>; Hopewell, Bridget<sup>2</sup>

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**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Christopher Newberry: Nothing to Disclose | Teresa Lever: Nothing to Disclose | Jakob Allen: Nothing to Disclose | Aaron Thiessen: Nothing to Disclose | Bridget Hopewell: Nothing to Disclose

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### **HIGH RESOLUTION MANOMETRY AND FEES SWALLOW OUTCOMES AFTER UNILATERAL VOCAL FOLD INJECTION MEDIALIZATION**

Kammer, Rachael<sup>1,2</sup>; Jones, Corinne A.<sup>2</sup>; Johnson, Aaron M.<sup>3</sup>; Dailey, Seth H.<sup>2</sup>; McCulloch, Timothy<sup>2</sup>; Thibeault, Susan<sup>2</sup>

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## **ADAPTING ENDOSCOPIC EVALUATION OF SWALLOWING FOR USE WITH MICE**

Rovnak, Abigail M.<sup>1,2</sup>; Haney, Megan<sup>3</sup>; Deninger, Ian<sup>4</sup>; Hopewell, Bridget<sup>5</sup>; Lever, Teresa<sup>5</sup>

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## **DEVELOPMENT OF RESEARCH AND EDUCATIONAL TOOLS FOR BIOMECHANICS OF SWALLOWING PRODUCED BY THE FOUR-DIMENSIONAL COMPUTER-SIMULATOR**

Kamiya, Tetsu<sup>1</sup>; Toyama, Yoshio<sup>1</sup>; Wada, Tetsuya<sup>1</sup>; Takai, Megumi<sup>1</sup>; Hanyu, Keigo<sup>1</sup>; Jinno, Nobuko<sup>1</sup>; Kikuchi, Takahiro<sup>2</sup>; Michiwaki, Yukihiko<sup>2</sup>

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## **PHARYNGEAL RESIDUE AFTER SWALLOW; DOES AREA MEASUREMENT PREDICT THREE DIMENSIONAL VOLUME?**

### **ANALYSIS USING 3D DYNAMIC COMPUTED TOMOGRAPHY**

Inamoto, Yoko<sup>1,3</sup>; Odonkor, Charles A.<sup>2</sup>; Itoh, Yuriko<sup>3</sup>; Saitoh, Eiichi<sup>3</sup>; Palmer, Jeffrey B.<sup>2</sup>; Aoyagi, Yoichiro<sup>3</sup>

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## **EFFECTS OF MENTHOL ON SWALLOWING FUNCTION IN A MOUSE MODEL OF PRESBYPHAGIA**

Littrell, Loren L.<sup>1</sup>; Deninger, Ian<sup>1</sup>; Caywood, Victoria<sup>2</sup>; Flynn, Kailtin<sup>1</sup>; Mok, Alexis<sup>1</sup>; Lever, Teresa<sup>3</sup>

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**RELEVANT FINANCIAL RELATIONSHIPS** : Loren Littrell: Nothing to Disclose | Ian Deninger: Nothing to Disclose | Victoria Caywood: Nothing to Disclose | Kailtin Flynn: Nothing to Disclose | Alexis Mok: Nothing to Disclose | Teresa Lever: Has affiliations to disclose;University of Missouri:Salary/Stipend:Employment

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Loren Littrell: Nothing to Disclose | Ian Deninger: Nothing to Disclose | Victoria Caywood: Nothing to Disclose | Kailtin Flynn: Nothing to Disclose | Alexis Mok: Nothing to Disclose | Teresa Lever: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership

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## **USING A PATIENT-SPECIFIC 4D COMPUTER SIMULATION TO VISUALIZE THE EFFECTS OF POSTURE CHANGE IN THE ELIMINATION OF ASPIRATION**

Michiwaki, Yukihiro<sup>1</sup>; Kikuchi, Takahiro<sup>1</sup>; Kamiya, Tetsu<sup>2</sup>; Toyama, Yoshio<sup>2</sup>; Wada, Tetsuya<sup>2</sup>; Jinno, Nobuko<sup>2</sup>; Takai, Megumi<sup>2</sup>; Hanyu, Keigo<sup>2</sup>

1. Oral Surgery Division, Japanese Red Cross Musashino Hospital, Musashino, Tokyo, Japan

2. R&D Division, Meiji Co., Ltd., Odawara, Kanagawa, Japan

**RELEVANT FINANCIAL RELATIONSHIPS** : Yukihiro Michiwaki: Nothing to Disclose | Takahiro Kikuchi: Nothing to Disclose | Tetsu Kamiya: Nothing to Disclose | Yoshio Toyama: Nothing to Disclose | Tetsuya Wada: Nothing to Disclose | Nobuko Jinno: Nothing to Disclose | Megumi Takai: Nothing to Disclose | Keigo Hanyu: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Yukihiro Michiwaki: Nothing to Disclose | Takahiro Kikuchi: Nothing to Disclose | Tetsu Kamiya: Nothing to Disclose | Yoshio Toyama: Nothing to Disclose | Tetsuya Wada: Nothing to Disclose | Nobuko Jinno: Nothing to Disclose | Megumi Takai: Nothing to Disclose | Keigo Hanyu: Nothing to Disclose

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## **THE IMPORTANCE OF INFRAHYOID MUSCLES AS REVEALED BY MULTI-STUDIES ANALYSES**

Ryu, Ju-Seok<sup>1</sup>

1. Department of Rehabilitation Medicine, Seoul National University Bundang Hospital, Seongnam-si, Gyeonggi-do, Korea (the Republic of)

**RELEVANT FINANCIAL RELATIONSHIPS** : Ju-Seok Ryu: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Ju-Seok Ryu: Nothing to Disclose

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**DYSPHAGIA RESEARCH SOCIETY  
ANNUAL MEETING  
FEBRUARY 25 - 27, 2016  
THE WESTIN LA PALOMA RESORT & SPA  
TUCSON, ARIZONA**

## **SCIENTIFIC POSTER DISCLOSURES**

#1

## **POST-OPERATIVE MANAGEMENT OF SWALLOWING FOLLOWING TRANSORAL ROBOTIC SURGERY**

Anthony, Keely<sup>1</sup>; Jordan, Jessica<sup>1</sup>; Albergotti, William G.<sup>2</sup>; Johnson, Jonas<sup>2</sup>; Wasserman-Wincko, Tamara<sup>1</sup>; Duvvuri, Umamaheswar<sup>2</sup>

1. Department of Otolaryngology-Division of Speech-Language Pathology, University of Pittsburgh Medical Center, Pittsburgh, PA, United States
2. Department of Otolaryngology, University of Pittsburgh Medical Center, Pittsburgh, PA, United States

**RELEVANT FINANCIAL RELATIONSHIPS** : Keely Anthony: Has affiliations to disclose; the University of Pittsburgh Medical Center: Salary/Stipend: Employment| Jessica Jordan: Nothing to Disclose | William Albergotti: Nothing to Disclose | Jonas Johnson: Nothing to Disclose | Tamara Wasserman-Wincko: Nothing to Disclose | Umamaheswar Duvvuri: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Keely Anthony: Nothing to Disclose | Jessica Jordan: Nothing to Disclose | William Albergotti: Nothing to Disclose | Jonas Johnson: Has a Non-Financial Disclosure Affiliation ;University of Pittsburgh Medical Center-Department of Otolaryngology:Professional:Membership | Tamara Wasserman-Wincko: Nothing to Disclose | Umamaheswar Duvvuri: Nothing to Disclose

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#2

## **PHYSIOLOGICAL CHARACTERISTICS OF EFFORTFUL, SUPRAGLOTTIC SWALLOW, AND MENDELSON MANEUVER EVALUATED BY HIGH-RESOLUTION MANOMETRY**

Aoyagi, Yoichiro<sup>1</sup>; Aihara, Keiko<sup>3</sup>; Inamoto, Yoko<sup>2</sup>; Imaeda, Sayuri<sup>3</sup>; Shibata, Seiko<sup>1</sup>; Kagaya, Hitoshi<sup>1</sup>; Saitoh, Eiichi<sup>1</sup>

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3. Faculty of Rehabilitation, Fujita Health University Hospital, Toyoake, Japan

**RELEVANT FINANCIAL RELATIONSHIPS** : Yoichiro Aoyagi: Nothing to Disclose | Keiko Aihara: Nothing to Disclose | Yoko Inamoto: Nothing to Disclose | Sayuri Imaeda: Nothing to Disclose | Seiko Shibata: Nothing to Disclose | Hitoshi Kagaya: Nothing to Disclose | Eiichi Saitoh: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Yoichiro Aoyagi: Nothing to Disclose | Keiko Aihara: Nothing to Disclose | Yoko Inamoto: Nothing to Disclose | Sayuri Imaeda: Nothing to Disclose | Seiko Shibata: Nothing to Disclose | Hitoshi Kagaya: Nothing to Disclose | Eiichi Saitoh: Nothing to Disclose

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#3

## **CAN FEEDBACK ENHANCE OR HINDER TRAINING A SWALLOWING MANEUVER?**

Azola, Alba M.<sup>1</sup>; Sunday, Kirstyn<sup>2</sup>; Gonzalez-Fernandez, Marlis<sup>1</sup>; Humbert, Ianessa A.<sup>2</sup>

1. Physical Medicine and Rehabilitation, Johns Hopkins, Lutherville, MD, United States
2. Speech, Language, and Hearing Sciences, University of Florida, Gainesville, FL, United States

**RELEVANT FINANCIAL RELATIONSHIPS** : Alba Azola: Nothing to Disclose | Kirstyn Sunday: Nothing to Disclose | Marlis Gonzalez-Fernandez: Nothing to Disclose | Ianessa Humbert: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Alba Azola: Nothing to Disclose | Kirstyn Sunday: Nothing to Disclose | Marlis Gonzalez-Fernandez: Nothing to Disclose | Ianessa Humbert: Nothing to Disclose

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#4

## **INCREASING KNOWLEDGE AND SKILLS OF NURSING ASSISTANT STUDENTS.**

Bales, Christy L.<sup>2,1</sup>

1. Carolina Therapy Services, Winston Salem, NC, United States
2. Abraham S. Fischler College of Education, Nova Southeastern University, Ft. Lauderdale , FL, United States

**RELEVANT FINANCIAL RELATIONSHIPS** : Christy Bales: Has affiliations to disclose; Carolina Therapy Services: Salary/Stipend: Employment

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Christy Bales: Has a Non-Financial Disclosure Affiliation ;ASHA:Professional:Membership

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#5

## **BEDSIDE SWALLOWING PREDICTORS OF THE “FATIGUE EFFECT” IN ADULTS WITH ACUTE STROKE: VIDEOFLUOROSCOPIC ANALYSIS**

Baylow, Hope E.<sup>1</sup>

1. Speech-Language Pathology, Midwestern University, Glendale, AZ, United States

**RELEVANT FINANCIAL RELATIONSHIPS** : Hope Baylow: Has affiliations to disclose; Midwestern University: Salary/Stipend: Employment

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Hope Baylow: Has a Non-Financial Disclosure Affiliation; American Speech-Language-Hearing Association:Professional:Membership; Dysphagia Research Society: Professional:Membership

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#6

### **PREDICTORS OF OROPHARYNGEAL DYSPHAGIA IN THE ELDERLY AFFECTED BY STROKE AND WITHOUT NEUROLOGICAL DISEASES**

Mituuti, Claudia T.<sup>1</sup>; Totta, Tatiane<sup>2</sup>; Andrade, Eduardo<sup>3</sup>; Berretin-Felix, Giedre<sup>3</sup>

1. Department of Speech Language and Hearing Sciences, Federal University of Santa Catarina, Florianopolis, Santa Catarina, Brazil
2. Hospital for Rehabilitation of Craniofacial Anomalies, Bauru, Brazil
3. Department of Speech Language and Hearing Sciences, Bauru School of Dentistry - University of Sao Paulo, Bauru, Brazil

**RELEVANT FINANCIAL RELATIONSHIPS** : Claudia Mituuti: Nothing to Disclose | Tatiane Totta: Nothing to Disclose | Eduardo Andrade: Nothing to Disclose | Giedre Berretin-Felix: Has affiliations to disclose; University of São Paulo: Salary/Stipend: Employment

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Claudia Mituuti: Nothing to Disclose | Tatiane Totta: Nothing to Disclose | Eduardo Andrade: Nothing to Disclose | Giedre Berretin-Felix: Nothing to Disclose

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#7

### **HOW AND WHEN TO BEGIN SAFE ORAL ALIMENTATION IN POST-EXTUBATION INTENSIVE CARE UNIT PATIENTS**

Leder, Steven B.<sup>1</sup>; Warner, Heather<sup>2</sup>; Suiter, Debra<sup>3</sup>; Bhattacharya, Bishwajit<sup>4</sup>; Rosenbaum, Stanley<sup>4</sup>; Schuster, Kevin<sup>4</sup>

1. Surgery-Otolaryngology, Yale School of Medicine, Cheshire, CT, United States
2. Communication Disorders, Southern Connecticut State University, New Haven, CT, United States
3. Voice & Swallow Clinic, University of Kentucky, Lexington, KY, United States
4. Yale School of Medicine Surgery, Trauma & Critical Care, New Haven, CT, United States

**RELEVANT FINANCIAL RELATIONSHIPS** : Steven Leder: Has affiliations to disclose; Yale School of Medicine: Salary/Stipend: Employment| Heather Warner: Nothing to Disclose | Debra Suiter: Nothing to Disclose | Bishwajit Bhattacharya: Nothing to Disclose | Stanley Rosenbaum: Nothing to Disclose | Kevin Schuster: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Steven Leder: Nothing to Disclose | Heather Warner: Nothing to Disclose | Debra Suiter: Nothing to Disclose | Bishwajit Bhattacharya: Nothing to Disclose | Stanley Rosenbaum: Nothing to Disclose | Kevin Schuster: Nothing to Disclose

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#8

### **CERVICAL COLLAR DOES NOT INCREASE INCIDENCE OF PRANDIAL ASPIRATION RISK IN TRAUMA PATIENTS**

Bhattacharya, Bishwajit<sup>2</sup>; Davis, Kim<sup>2</sup>; Young, Nwanmegha<sup>1</sup>; Leder, Steven B.<sup>1</sup>

1. Surgery-Otolaryngology, Yale School of Medicine, Cheshire, CT, United States
2. Surgery, Trauma & Critical Care, Yale School of Medicine, New Haven, CT, United States

**RELEVANT FINANCIAL RELATIONSHIPS** : Bishwajit Bhattacharya: Has affiliations to disclose; Yale School of Medicine: Salary/Stipend: Employment| Kim Davis: Nothing to Disclose | Nwanmegha Young: Nothing to Disclose | Steven Leder: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Bishwajit Bhattacharya: Nothing to Disclose | Kim Davis: Nothing to Disclose | Nwanmegha Young: Nothing to Disclose | Steven Leder: Nothing to Disclose

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#9

### **YALE SWALLOW PROTOCOL WITH REHABILITATION PATIENTS: FOURTEEN DAYS OF SUCCESSFUL ORAL ALIMENTATION**

Brady, Susan L.<sup>1</sup>; Suiter, Debra M.<sup>3</sup>; Armour, Michelle <sup>4</sup>; Birkbibine, Shelia <sup>4</sup>; Manypenny, Cari<sup>4</sup>; Stambolis, Vasilios<sup>4</sup>; Braun, Emily <sup>4,5</sup>; Leder, Steven B.<sup>2</sup>

1. Director of Research & Outcomes, Marianjoy Rehabilitation Hospital, Wheaton, IL, United States
2. Professor, Department of Surgery, Yale School of Medicine, New Haven, CT, United States
3. Director, University of Kentucky Voice & Swallowing Clinic, Lexington, KY, United States
4. Marianjoy Rehabilitation Hospital, Wheaton, IL, United States
5. Rehabilitation Institute of Chicago, Chicago, IL, United States

**RELEVANT FINANCIAL RELATIONSHIPS** : Susan Brady: Nothing to Disclose | Debra Suiter: Nothing to Disclose | Michelle Armour: Nothing to Disclose | Shelia Birkbibine: Nothing to Disclose | Cari Manypenny: Nothing to Disclose | Vasilios Stambolis: Nothing to Disclose | Emily Braun: Nothing to Disclose | Steven Leder: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Susan Brady: Nothing to Disclose | Debra Suiter: Nothing to Disclose | Michelle Armour: Nothing to Disclose | Shelia Birkbibine: Nothing to Disclose | Cari Manypenny: Nothing to Disclose | Vasilios Stambolis: Nothing to Disclose | Emily Braun: Nothing to Disclose | Steven Leder: Nothing to Disclose

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## #10

### FACE-TO-FACE VERSUS ONLINE TRAINING FOR THE FEES PROCEDURE

Brady, Susan L.<sup>1</sup>; Rao, Noel<sup>2</sup>; Williams, Letha<sup>3</sup>; Hakel, Mark<sup>5</sup>; Pape, Theresa<sup>4</sup>; Pietrantonio, Michael<sup>6</sup>

1. Director, Research & Outcomes, Marianjoy Rehabilitation Hospital, Wheaton, IL, United States
2. Director, Medical Residency Program, Marianjoy Rehabilitation Hospital, Wheaton, IL, United States
3. Chairperson, Health Administration, AT Still University, Kirksville, MO, United States
4. Hines VA Hospital, Hines, IL, United States
5. Madonna Rehabilitation Hospital, Lincoln, IL, United States
6. Marianjoy Rehabilitation Hospital, Wheaton, IL, United States

**RELEVANT FINANCIAL RELATIONSHIPS** : Susan Brady: Has affiliations to disclose;Institute of Medicine Chicago - Portes Foundation :Grant:Other Activities | Noel Rao: Nothing to Disclose | Letha Williams: Nothing to Disclose | Mark Hakel: Nothing to Disclose | Theresa Pape: Nothing to Disclose | Michael Pietrantonio : Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Susan Brady: Nothing to Disclose | Noel Rao: Nothing to Disclose | Letha Williams: Nothing to Disclose | Mark Hakel: Nothing to Disclose | Theresa Pape: Nothing to Disclose | Michael Pietrantonio : Nothing to Disclose

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## #11

### MBS ELEARNING PROGRAM: SUPPORTING A STANDARDISED APPROACH TO MODIFIED BARIUM SWALLOW TRAINING

Burns, Clare<sup>1</sup>; Taubert, Shana<sup>1</sup>; McCarthy, Kellie<sup>2</sup>; Ward, Elizabeth<sup>3,4</sup>; Graham, Nicola<sup>5</sup>

1. Speech Pathology & Audiology Department, Royal Brisbane & Women's Hospital, Brisbane, Queensland, Australia
2. Speech Pathology & Audiology Department, Princess Alexandra Hospital, Brisbane, Queensland, Australia
3. Centre for Functioning & Health Research, Metro South HHS, Queensland Health, Brisbane, Queensland, Australia
4. School of Health and Rehabilitation Sciences, The University of Queensland, Brisbane, Queensland, Australia
5. Children's Health Queensland Hospital and Health Service, Brisbane, Queensland, Australia

**RELEVANT FINANCIAL RELATIONSHIPS** : Clare Burns: Has affiliations to disclose;Queensland Health:Salary/Stipend:Employment | Shana Taubert : Has affiliations to disclose;Queensland Health:Salary/Stipend:Employment | Kellie McCarthy: Has affiliations to disclose;Queensland Health:Salary/Stipend:Employment | Elizabeth Ward: Has affiliations to disclose;Queensland Health:Salary/Stipend:Employment;The University of Queensland :Salary/Stipend:Employment;LSVT:Honoraria:Teaching and speaking | Nicola Graham: Has affiliations to disclose;Queensland Health:Salary/Stipend:Employment

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Clare Burns: Has a Non-Financial Disclosure Affiliation ;Speech Pathology Australia:Professional:Membership | Shana Taubert : Has a Non-Financial Disclosure Affiliation ;Speech Pathology Australia :Professional:Membership | Kellie McCarthy: Nothing to Disclose | Elizabeth Ward: Has a Non-Financial Disclosure Affiliation ;Speech Pathology Australia :Professional:Membership | Nicola Graham: Has a Non-Financial Disclosure Affiliation ;Speech Pathology Australia:Professional:Membership

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## #12

### PROFILE OF SWALLOWING IN A BRAZILIAN SENIOR GROUP

Cardoso, Maria C.<sup>1,2</sup>; Silva Filho, Irenio G.<sup>3</sup>; Schwanke, Carla H.<sup>3</sup>; Schneider, Rodolfo.<sup>3</sup>; Moriguchi, Yukio<sup>3</sup>

1. Speech, language and audiology, UFCSPA, PORTO ALEGRE, RS, Brazil
2. Rehabilitation Sciences post graduation, UFCSPA, Porto Alegre, RS, Brazil
3. IGG, PUCRS, Porto Alegre, RS, Brazil

**RELEVANT FINANCIAL RELATIONSHIPS** : Maria Cardoso: Has affiliations to disclose;UFCSPA:Salary/Stipend:Employment | Irenio Silva Filho: Has affiliations to disclose;PUCRS:Salary/Stipend:Employment | Carla Schwanke: Has affiliations to disclose;PUCRS:Salary/Stipend:Employment | Rodolfo Schneider: Has affiliations to disclose;PUCRS:Salary/Stipend:Employment | Yukio Moriguchi: Has affiliations to disclose;PUCRS:Salary/Stipend:Employment

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Maria Cardoso: Nothing to Disclose | Irenio Silva Filho: Nothing to Disclose | Carla Schwanke: Nothing to Disclose | Rodolfo Schneider: Nothing to Disclose | Yukio Moriguchi: Nothing to Disclose

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#13

**RISK FACTORS AND PULMONARY FUNCTION ASSOCIATED WITH ASPIRATION IN PATIENTS WITH HEAD AND NECK CANCER**

Carrara-de Angelis, Elisabete<sup>1</sup>; Claudino, Simone<sup>1</sup>; Andrade, Margareth<sup>1</sup>; Kowalski, Luiz Paulo<sup>2</sup>; Caruso, Pedro<sup>3</sup>

1. Voice, Speech and Swallowing Rehabilitation Department, A.C.Camargo Cancer Center, Sao Paulo, Sao Paulo, Brazil
2. Head and Neck Surgery Department, A.C.Camargo Cancer Center, Sao Paulo, Sao Paulo, Brazil
3. A.C.Camargo Cancer Center, Sao Paulo, Sao Paulo, Brazil

**RELEVANT FINANCIAL RELATIONSHIPS** : Elisabete Carrara-de Angelis: Nothing to Disclose | Simone Claudino: Nothing to Disclose | Margareth Andrade: Nothing to Disclose | Luiz Paulo Kowalski: Nothing to Disclose | Pedro Caruso: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Elisabete Carrara-de Angelis: Nothing to Disclose | Simone Claudino: Nothing to Disclose | Margareth Andrade: Nothing to Disclose | Luiz Paulo Kowalski: Nothing to Disclose | Pedro Caruso: Nothing to Disclose

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#14

**CORTICAL ACTIVATION DURING SWALLOWING IN PATIENTS WITH TONGUE CANCER BEFORE TREATMENT**

Guedes, Renata<sup>1</sup>; Nucci-da-Silva, Mariana<sup>3</sup>; Geraldini, Bruna<sup>1</sup>; Kowalski, Luiz Paulo<sup>4</sup>; Amaro, Edson<sup>3</sup>; Carrara-de Angelis, Elisabete<sup>2</sup>

1. Voice, Speech and Swallowing Rehabilitation Department, A.C.Camargo Cancer Center, Sao Paulo, Sao Paulo, Brazil
2. Instituto de Radiologia do HCFMUSP, Sao Paulo, Sao Paulo, Brazil
3. Head and Neck Surgery Department, A.C.Camargo Cancer Center, Sao Paulo, Sao Paulo, Brazil

**RELEVANT FINANCIAL RELATIONSHIPS** : Renata Guedes: Nothing to Disclose | Mariana Nucci-da-Silva: Nothing to Disclose | Bruna Geraldini: Nothing to Disclose | Luiz Paulo Kowalski: Nothing to Disclose | Edson Amaro: Nothing to Disclose | Elisabete Carrara-de Angelis: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Renata Guedes: Nothing to Disclose | Mariana Nucci-da-Silva: Nothing to Disclose | Bruna Geraldini: Nothing to Disclose | Luiz Paulo Kowalski: Nothing to Disclose | Edson Amaro: Nothing to Disclose | Elisabete Carrara-de Angelis: Nothing to Disclose

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#15

**REHABILITATION OF SWALLOWING AND OROFACIAL CONTRACTURES AFTER SEVERE BURN INJURY**

Clayton, Nicola A.<sup>1,2,3</sup>; Ward, Elizabeth C.<sup>3,4</sup>; Maitz, Peter K.<sup>2</sup>

1. Speech Pathology, Concord Repatriation General Hospital, Concord Repatriation General Hospital, New South Wales, Australia
2. Burns Unit, Concord Repatriation General Hospital, Sydney, New South Wales, Australia
3. School of Health & Rehabilitation Sciences, University of Queensland, Brisbane, Queensland, Australia
4. Centre for Functioning & Health Research, Queensland Health, Brisbane, Queensland, Australia

**RELEVANT FINANCIAL RELATIONSHIPS** : Nicola Clayton: Nothing to Disclose | Elizabeth Ward: Nothing to Disclose | Peter Maitz: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Nicola Clayton: Nothing to Disclose | Elizabeth Ward: Has a Non-Financial Disclosure Affiliation ;Dysphagia Research Society:Professional:Membership | Peter Maitz: Nothing to Disclose

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#16

**AN INVESTIGATION OF THE EFFECT OF LARYNGECTOMY ON SWALLOWING AND QUALITY OF LIFE**

Coffey, Margaret M.<sup>1,2</sup>; Hickson, Mary<sup>4</sup>; Tolley, Neil <sup>3</sup>; Howard, David<sup>3</sup>

1. Speech and Language Therapy, Imperial College Healthcare NHS Trust, London, United Kingdom
2. Investigative Medicine, Imperial College London, London, United Kingdom
3. ENT/Otolaryngology, Imperial College Healthcare NHS Trust, London, United Kingdom
4. Nutrition and Dietetics, Imperial College Healthcare NHS Trust, London, United Kingdom

**RELEVANT FINANCIAL RELATIONSHIPS** : Margaret Coffey:Has affiliations to disclose; National Institute of Health Research - UK: Salary/Stipend: Employment | Mary Hickson: Nothing to Disclose | Neil Tolley: Nothing to Disclose | David Howard: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Margaret Coffey: Nothing to Disclose | Mary Hickson: Nothing to Disclose | Neil Tolley: Nothing to Disclose | David Howard: Nothing to Disclose

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#17

### ACCURACY IN THE EARLY IDENTIFICATION OF DYSPHAGIA

Currie, Victoria<sup>1</sup>; Flowers, Heather L.<sup>1</sup>; Nicholson, Gordon<sup>2</sup>; Kapral, Moira<sup>3</sup>; Martino, Rosemary<sup>1,4,5,6</sup>

1. Speech Language Pathology, University of Toronto, Toronto, ON, Canada
2. Speech Language Pathology, University Health Network, Toronto, ON, Canada
3. Internal Medicine, University Health Network, Toronto, ON, Canada
4. Rehabilitation Sciences Institute, University of Toronto, Toronto, ON, Canada
5. Toronto Western Institute, University Health Network, Toronto, ON, Canada
6. Department of Otolaryngology - Head and Neck Surgery, University of Toronto, Toronto, ON, Canada

**RELEVANT FINANCIAL RELATIONSHIPS :** Victoria Currie: Nothing to Disclose | Heather Flowers: Nothing to Disclose | Gordon Nicholson: Nothing to Disclose | Moira Kapral: Nothing to Disclose | Rosemary Martino: Has affiliations to disclose;University of Toronto:Salary/Stipend:Employment;Canada Research Chair:Grant:Other Activities;Canadian Institutes of Health Research:Grant:Other Activities;Canadian Cancer Society Research Institute:Grant:Other Activities;Amgen Inc:Other Financial or Material Support:Other Activities;National Cancer Institute (US):Grant:Other Activities

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Victoria Currie: Nothing to Disclose | Heather Flowers: Nothing to Disclose | Gordon Nicholson: Nothing to Disclose | Moira Kapral: Nothing to Disclose | Rosemary Martino: Has a Non-Financial Disclosure Affiliation ;Dysphagia Research Society:Professional:Membership

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#18

### PROXIMAL AND DISTAL ESOPHAGEAL CONTRACTIONS BEFORE AND AFTER SILDENAFIL

Costa, Tarciana V.<sup>1</sup>; Dantas, Roberto O.<sup>1</sup>

1. Medicine, Medical School of Ribeirão Preto USP, Ribeirão Preto, São Paulo, Brazil

**RELEVANT FINANCIAL RELATIONSHIPS :** Tarciana Costa: Nothing to Disclose | Roberto Dantas: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Tarciana Costa: Nothing to Disclose | Roberto Dantas: Nothing to Disclose

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#19

### POST-FUNDOPLICATION DYSPHAGIA CAUSES SIMILAR WATER INGESTION DYNAMICS AS ACHALASIA

Dantas, Roberto O.<sup>1</sup>; Santos, Carla M.<sup>1</sup>; Cassiani, Rachel A.<sup>1</sup>; Alves, Leda T.<sup>1</sup>; Nascimento, Weslania V.<sup>1</sup>

1. Medicine, Medical School of Ribeirão Preto USP, Ribeirão Preto, São Paulo, Brazil

**RELEVANT FINANCIAL RELATIONSHIPS :** Roberto Dantas: Nothing to Disclose | Carla Santos: Nothing to Disclose | Rachel Cassiani: Nothing to Disclose | Leda Alves: Nothing to Disclose | Weslania Nascimento: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Roberto Dantas: Nothing to Disclose | Carla Santos: Nothing to Disclose | Rachel Cassiani: Nothing to Disclose | Leda Alves: Nothing to Disclose | Weslania Nascimento: Nothing to Disclose

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#20

### DYSPHAGIA OUTCOMES AFTER COMBAT-RELATED MAXILLOFACIAL TRAUMATIC INJURIES

Dietsch, Angela M.<sup>1,2</sup>; Solomon, Nancy P.<sup>1</sup>; Dietrich-Burns, Katie<sup>1,2</sup>

1. Audiology & Speech Pathology Center, Walter Reed National Military Medical Center, Bethesda, MD, United States
2. Henry M. Jackson Foundation for the Advancement of Military Medicine, Rockville, MD, United States

**RELEVANT FINANCIAL RELATIONSHIPS :** Angela Dietsch: Has affiliations to disclose;Henry M. Jackson Foundation for the Advancement of Military Medicine:Salary/Stipend:Employment | Nancy Solomon: Has affiliations to disclose;US Department of Defense:Salary/Stipend:Employment | Katie Dietrich-Burns: Has affiliations to disclose;Henry M. Jackson Foundation for the Advancement of Military Medicine :Salary/Stipend:Employment

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Angela Dietsch: Nothing to Disclose | Nancy Solomon: Nothing to Disclose | Katie Dietrich-Burns: Nothing to Disclose

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#21

### REMIFENTANIL ALTERS SENSORY NEUROMODULATION OF SWALLOWING IN HEALTHY VOLUNTEERS: QUANTIFICATION BY NOVEL PRESSURE-IMPEDANCE ANALYSIS

Doeltgen, Sebastian<sup>1</sup>; Omari, Taher<sup>2</sup>; Savilampi, Johanna<sup>3</sup>

1. Speech Pathology, School of Health Sciences, Flinders University, Adelaide, South Australia, Australia
2. Human Physiology, Medical Science and Technology, Flinders University, Adelaide, South Australia, Australia
3. Faculty of Medicine and Health, Örebro University, Örebro, Sweden

**RELEVANT FINANCIAL RELATIONSHIPS** : Sebastian Doeltgen: Has affiliations to disclose;Flinders University:Salary/Stipend:Employment | Taher Omari: Has affiliations to disclose;Flinders University:Salary/Stipend:Employment | Johanna Savilampi: Has affiliations to disclose;University Hospital Oerebro:Salary/Stipend:Employment

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Sebastian Doeltgen: Has a Non-Financial Disclosure Affiliation ;Dysphagia Research Society:Other relationship:Volunteer membership on advisory committee or review panels | Taher Omari: Nothing to Disclose | Johanna Savilampi: Nothing to Disclose

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#22

**SPEECH-LANGUAGE PATHOLOGY INTERVENTION FOR PATIENTS TREATED FOR HEAD AND NECK CANCER: EXPLORING THE “PATIENT EXPERIENCE”**

Dreyer, Colleen<sup>1</sup>; Hawkins, Sarah<sup>1</sup>; Thouless, Kendra<sup>1</sup>; Theurer, Julie<sup>2,3</sup>

1. Speech Language Pathology, London Health Sciences Centre, London, ON, Canada
2. School of Communication Sciences and Disorders, Western University, London, ON, Canada
3. Otolaryngology - Head and Neck Surgery, Western University, London, ON, Canada

**RELEVANT FINANCIAL RELATIONSHIPS** : Colleen Dreyer: Has affiliations to disclose; London Health Sciences Centre: Salary/Stipend: Employment| Sarah Hawkins: Nothing to Disclose | Kendra Thouless: Nothing to Disclose | Julie Theurer: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Colleen Dreyer: Nothing to Disclose | Sarah Hawkins: Nothing to Disclose | Kendra Thouless: Nothing to Disclose | Julie Theurer: Nothing to Disclose

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#23

**THE ENDOSCOPIC EVALUATION OF THE ORAL PHASE OF SWALLOWING (ORAL-FEES, O-FEES): PRELIMINARY DATA ABOUT THE RELIABILITY BETWEEN ENDOSCOPIC AND RADIOLOGICAL PROCEDURE.**

Farneti, Daniele<sup>1</sup>; fattori, bruno<sup>2</sup>; bastiani, luca<sup>3</sup>; genovese, elisabetta<sup>4</sup>

1. Audiology Phoniatic Service, "Infermi" Hospital, Rimini, RN, Italy
2. ENT Audiology Phoniatry Unit – University of Pisa, Pisa, Italy
3. Institute of Clinical Physiology, National Council of Research (CNR) – Pisa, Pisa, Italy
4. Audiology Service - University of Modena, Modena, Italy

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Daniele Farneti: Has a Non-Financial Disclosure Affiliation ;Infermi hospital - Rimini:Personal:Membership | bruno fattori: Nothing to Disclose | luca bastiani: Nothing to Disclose | elisabetta genovese: Nothing to Disclose

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#24

**AN ARTIFICIAL INTELLIGENCE TECHNOLOGY FOR MONITORING CHIN TUCK MANEUVERS**

Freed, Michael<sup>1</sup>; Beaumont-Bowman, Sharon<sup>2</sup>; Burns, Brian<sup>1</sup>; Heller, Aaron<sup>1</sup>; Sanchez, Daniel J.<sup>1</sup>

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Michael Freed: Nothing to Disclose | Sharon Beaumont-Bowman: Nothing to Disclose | Brian Burns: Nothing to Disclose | Aaron Heller: Nothing to Disclose | DANIEL SANCHEZ: Nothing to Disclose

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#25

**HIGH-SENSITIVITY C-REACTIVE PROTEIN (HS-CRP) AND BODY MASS INDEX IN PATIENTS WITH ASPIRATION**

Oliveira, Diane d.<sup>1</sup>; Moreira, Emilia A.<sup>2,1</sup>; de Freitas, Maiara B.<sup>1</sup>; Gonçalves, Juliana d.<sup>1</sup>; Homem, Suellen G.<sup>1</sup>; Furkim, Ana Maria<sup>3</sup>

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Diane Oliveira: Nothing to Disclose | Emilia Moreira: Nothing to Disclose | Maiara de Freitas: Nothing to Disclose | Juliana Gonçalves: Nothing to Disclose | Suellen Homem: Nothing to Disclose | Ana Maria Furkim: Nothing to Disclose

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#26

**DOES AGE AND GENDER EFFECT THE DURATION OF A MENDELSON MANEUVER?**

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Kristine Galek: Nothing to Disclose | Madison Grim: Nothing to Disclose | Taylor Santin: Nothing to Disclose

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#27

**QUANTIFYING OROPHARYNGEAL SWALLOWING IMPAIRMENT IN RESPONSE TO BOLUS VISCOSITY**

Garand, Kendrea L.<sup>1,2,5</sup>; Armeson, Kent<sup>7,4</sup>; Hill, Elizabeth G.<sup>4,7</sup>; Blair, Julie<sup>5</sup>; Pearson, William G.<sup>6</sup>; Martin-Harris, Bonnie<sup>2,3</sup>

1. Research, Ralph H. Johnson VAMC, Charleston, SC, United States
2. Otolaryngology-Head and Neck Surgery, MUSC, Charleston, SC, United States
3. Surgery, Ralph H. Johnson VAMC, Charleston, SC, United States
4. Public Health Sciences, MUSC, Charleston, SC, United States
5. Speech-Language Pathology, MUHA, Charleston, SC, United States
6. Cellular Biology and Anatomy, Georgia Regents University, Augusta, GA, United States
7. Hollings Cancer Center, Charleston, SC, United States

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Kendrea Garand: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership;ASHA SIG13:Professional:Membership;ASHA :Professional:Membership;ASHA SIG2:Professional:Membership | Kent Armeson: Nothing to Disclose | Elizabeth Hill: Nothing to Disclose | Julie Blair: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership;ASHA:Professional:Membership;ASHA SIG13:Professional:Board membership;NSDOF:Professional:Membership;Head and Neck Cancer Alliance:Professional:Membership;ONS:Professional:Membership | William Pearson: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership | Bonnie Martin-Harris: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership;Dysphagia Journal:Professional: Other volunteer activities;DRS:Professional:Volunteer membership on advisory committee or review panels;ASHA :Professional:Membership;ASHA:Professional:Volunteer membership on advisory committee or review panels;ASHA SIG13:Professional:Membership

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#28

**PATIENT ADHERENCE TO SWALLOWING EXERCISES AFTER HEAD AND NECK CANCER: IDENTIFICATION OF BARRIERS AND FACILITATORS**

Govender, Roganie<sup>1,2</sup>; Wood, Caroline<sup>3</sup>; Taylor, Stuart<sup>4</sup>; Gardner, Benjamin<sup>5,2,3</sup>

1. Head & Neck Cancer Centre, University College London Hospital, London, United Kingdom
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3. Centre for Behaviour Change, UCL, London, United Kingdom
4. Centre for Medical Imaging, University College London, London, United Kingdom
5. Institute of Psychiatry, Psychology & Neuroscience, Kings College London , London, United Kingdom

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Roganie Govender: Nothing to Disclose | Caroline Wood: Nothing to Disclose | Stuart Taylor: Nothing to Disclose | Benjamin Gardner: Nothing to Disclose

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#29

**IMPACT OF HOSPITAL-WIDE DYSPHAGIA SCREENING ON LOS FOR PATIENTS WITH DYSPHAGIA: A PI PROJECT.**

Graham, Michelle<sup>1,2</sup>; Yezzo, Phyllis<sup>3</sup>; Schaefer, Steven<sup>2</sup>; Zeman, David C.<sup>2</sup>

1. Speech Pathology, Lenox Hill Hospital, New York, NY, United States
2. New York Head & Neck Institute, New York, NY, United States
3. Bon Secours, Port Jervis, NY, United States

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Michelle Graham: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership | Phyllis Yezzo: Nothing to Disclose | Steven Schaefer: Nothing to Disclose | David Zeman: Nothing to Disclose

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#30

**DYSPHAGIA INTERVENTION FOR PATIENTS WITH HEAD AND NECK CANCER TREATED WITH RADIOTHERAPY WITH OR WITHOUT CHEMOTHERAPY: A SYSTEMATIC REVIEW**

Greco, Elissa<sup>1</sup>; Simic, Tijana<sup>1</sup>; Ringash, Jolie<sup>2,3,8</sup>; Tomlinson, George<sup>6,7,8</sup>; Inamoto, Yoko<sup>4</sup>; Martino, Rosemary<sup>1,5,9</sup>

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4. Faculty of Rehabilitation Medicine, Fujita Health University, Toyoake, Aichi, Japan
5. Toronto Western Research Institute, University Health Network, Toronto, ON, Canada
6. Department of Medicine, Toronto General Hospital, Toronto, ON, Canada
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8. Department of Health Policy, Management and Evaluation, University of Toronto, Toronto, ON, Canada
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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Elissa Greco: Nothing to Disclose | Tijana Simic: Nothing to Disclose | Jolie Ringash: Nothing to Disclose | George Tomlinson: Nothing to Disclose | Yoko Inamoto: Nothing to Disclose | Rosemary Martino: Nothing to Disclose

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#31

**FOLLOW THE SWALLOW: RADIOLOGY RESIDENT WEB BASED TRAINING INITIATIVE**

Gregore, Dale R.<sup>1</sup>; Sechrist, Janet<sup>1</sup>; Siddall, Kristina<sup>2</sup>; Traylor, Katie<sup>2</sup>; Sandhu, Sameer<sup>2</sup>

1. Speech Pathology, Christiana Care Health System, Wilmington, DE, United States
2. Radiology, Christiana Care Health System, Newark, DE, United States

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Dale Gregore: Nothing to Disclose | Janet Sechrist: Nothing to Disclose | Kristina Siddall: Nothing to Disclose | Katie Traylor: Nothing to Disclose | Sameer Sandhu: Nothing to Disclose

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#32

### **VISUALIZATION OF ASPIRATED FOOD BOLUS BY USING 4D COMPUTER SIMULATION**

Hanyu, Keigo<sup>1</sup>; Toyama, Yoshio<sup>1</sup>; Kamiya, Tetsu<sup>1</sup>; Wada, Tetsuya<sup>1</sup>; Jinno, Nobuko<sup>1</sup>; Takai, Megumi<sup>1</sup>; Kikuchi, Takahiro<sup>2</sup>; Michiwaki, Yukihiko<sup>2</sup>

1. R&D Division, Meiji Co., Ltd., Odawara, Kanagawa, Japan
2. Oral Surgery Division, Japanese Red Cross Musashino Hospital, Musashino, Tokyo, Japan

**RELEVANT FINANCIAL RELATIONSHIPS** : Keigo Hanyu: Has affiliations to disclose Meiji Co., Ltd.: Salary/Stipend: Employment| Yoshio Toyama: Nothing to Disclose | Tetsu Kamiya: Nothing to Disclose | Tetsuya Wada: Nothing to Disclose | Nobuko Jinno: Nothing to Disclose | Megumi Takai: Nothing to Disclose | Takahiro Kikuchi: Nothing to Disclose | Yukihiko Michiwaki: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Keigo Hanyu: Nothing to Disclose | Yoshio Toyama: Nothing to Disclose | Tetsu Kamiya: Nothing to Disclose | Tetsuya Wada: Nothing to Disclose | Nobuko Jinno: Nothing to Disclose | Megumi Takai: Nothing to Disclose | Takahiro Kikuchi: Nothing to Disclose | Yukihiko Michiwaki: Nothing to Disclose

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#33

### **IMPROVING PALATABILITY OF ORAL CONTRAST AGENTS FOR CANINE SWALLOW STUDIES**

Harris, Rebecca A.<sup>2</sup>; Rawson, Nancy E.<sup>3</sup>; Bennett, Bridgette<sup>3</sup>; Frank, Julie<sup>3</sup>; Lever, Teresa<sup>1</sup>

1. Otolaryngology-Head and Neck Surgery, University of Missouri-Columbia, Columbia, MO, United States
2. Communication Science and Disorders, University of Missouri-Columbia, Columbia, MO, United States
3. AFB International, St. Charles, MO, United States

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Rebecca Harris: Nothing to Disclose | Nancy Rawson: Nothing to Disclose | Bridgette Bennett: Nothing to Disclose | Julie Frank: Nothing to Disclose | Teresa Lever: Has a Non-Financial Disclosure Affiliation ;Dysphagia Research Society:Professional:Membership

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#34

### **STANDARDIZED MBSS ASSESSMENT CLINICIAN TRAINING PATTERNS**

Hazelwood, R. Jordan<sup>1,2,3</sup>; Farazi, Md Moshir R.<sup>4</sup>; Humphries, Kate W.<sup>2,5</sup>; Fels, Sidney<sup>4</sup>; Martin-Harris, Bonnie<sup>1,2,3,5</sup>

1. College of Health Professions, Medical University of South Carolina, Charleston, SC, United States
2. Otolaryngology-- Head & Neck Surgery, Medical University of South Carolina, Charleston, SC, United States
3. Ralph H. Johnson VA Medical Center, Charleston, SC, United States
4. Electrical and Computer Engineering, University of British Columbia, Vancouver, SC, United States
5. Evelyn Trammell Institute for Voice and Swallowing, Medical University of South Carolina, Charleston, SC, United States

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: R. Jordan Hazelwood: Has a Non-Financial Disclosure Affiliation ;ASHA:Professional:Membership;ASHA:Professional:Volunteer membership on advisory committee or review panels;SCSHA:Professional:Membership;DRS:Professional:Membership;Dysphagia Journal:Professional: Other volunteer activities | Md Moshir Farazi: Nothing to Disclose | Kate Humphries: Has a Non-Financial Disclosure Affiliation ;ASHA:Professional:Membership | Sidney Fels: Nothing to Disclose | Bonnie Martin-Harris: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership;DRS:Professional:Volunteer membership on advisory committee or review panels;ASHA:Professional:Membership;ASHA:Professional:Volunteer membership on advisory committee or review panels;Dysphagia Journal:Professional: Other volunteer activities

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#35

### **AIRWAY SENSATION IS BLUNTED IN ADULTS WITH PARKINSON'S DISEASE COMPARED TO AGE-MATCHED OLDER ADULTS.**

Hegland, Karen<sup>1</sup>; Brandimore, Alexandra E.<sup>2</sup>; Troche, Michelle S.<sup>2</sup>

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Karen Hegland: Has a Non-Financial Disclosure Affiliation ;ISARP:Professional:Membership;American Physiological Society:Professional:Membership | Alexandra Brandimore: Nothing to Disclose | Michelle Troche: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership;ISARP:Professional:Membership

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#36

### **COMPUTER SIMULATION OF A LIQUID BOLUS FOR STUDYING HYPOSALIVATION FROM DYNAMIC 320-SLICE CT IMAGES**

Ho, Andrew K.<sup>1</sup>; Affoo, Rebecca<sup>2</sup>; Nicosia, Mark A.<sup>3</sup>; Inamoto, Yoko<sup>4</sup>; Saitoh, Eiichi<sup>4</sup>; Green, Sheldon<sup>5</sup>; Fels, Sidney<sup>1</sup>

1. Electrical and Computer Engineering, University of British Columbia, Vancouver, BC, Canada
2. The Graduate Program of Health and Rehabilitation Sciences, Western University, London, ON, Canada
3. Mechanical Engineering, Widener University, Chester, PA, United States
4. Faculty of Rehabilitation, Fujita Health Univeresity, Toyoake, Aichi Prefecture, Japan
5. Mechanical Engineering, University of British Columbia, Vancouver, BC, Canada

**RELEVANT FINANCIAL RELATIONSHIPS** : Andrew Ho: Has affiliations to disclose; Collaborative Health Research Projects:Grant:Other Activities| Rebecca Affoo: Nothing to Disclose | Mark Nicosia: Nothing to Disclose | Yoko Inamoto: Nothing to Disclose | Eiichi Saitoh: Nothing to Disclose | Sheldon Green: Nothing to Disclose | Sidney Fels: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Andrew Ho: Nothing to Disclose | Rebecca Affoo: Nothing to Disclose | Mark Nicosia: Has a Non-Financial Disclosure Affiliation ;Dysphagia Research Society:Professional:Membership | Yoko Inamoto: Has a Non-Financial Disclosure Affiliation ;Dysphagia Research Society:Professional:Membership | Eiichi Saitoh: Has a Non-Financial Disclosure Affiliation ;Dysphagia Research Society:Professional:Membership | Sheldon Green: Nothing to Disclose | Sidney Fels: Nothing to Disclose

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#37

### **A COMPARISON STUDY OF PATIENT'S PALATABILITY PREFERENCE BETWEEN GUM-BASED AND STARCH-BASED FLUID THICKENERS IN A TERTIARY HOSPITAL IN SINGAPORE**

Mohamed Jamil, Siti Khairiyah<sup>1</sup>; Ho, Sher Min<sup>1</sup>; Phua, Quan Quan<sup>1</sup>; Concepcion, Johncy Rose<sup>1</sup>

1. National University Hospital (Singapore), Singapore, Singapore

**RELEVANT FINANCIAL RELATIONSHIPS** : Siti Khairiyah Mohamed Jamil: Nothing to Disclose | Sher Min Ho: Has affiliations to disclose; Nestle Health Science: ThickenUp Clear gum-based thickener samples: Other Activities | Quan Quan Phua: Nothing to Disclose | Johncy Rose Concepcion: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Siti Khairiyah Mohamed Jamil: Nothing to Disclose | Sher Min Ho: Nothing to Disclose | Quan Quan Phua: Nothing to Disclose | Johncy Rose Concepcion: Nothing to Disclose

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#38

### **PERIPHERAL AND CENTRAL CONTROL OF SWALLOWING INITIATION IN HUMANS**

Inoue, Makoto<sup>1</sup>; Tsujimura, Takanori<sup>1</sup>; Magara, Jin<sup>1</sup>

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Makoto Inoue: Nothing to Disclose | Takanori Tsujimura: Nothing to Disclose | Jin Magara: Nothing to Disclose

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#39

### UPPER ESOPHAGEAL SPHINCTER OPENING IS MODULATED BY BOLUS VOLUME

Cock, Charles<sup>1</sup>; Jones, Corinne A.<sup>2</sup>; Hammer, Michael J.<sup>2</sup>; Omari, Taher<sup>1,3</sup>; McCulloch, Timothy<sup>2</sup>

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2. Department of Surgery, Division of Otolaryngology, University of Wisconsin , Madison, WI, United States
3. Human Physiology, Flinders University, Adelaide, South Australia, Australia

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Charles Cock: Nothing to Disclose | Corinne Jones: Has a Non-Financial Disclosure Affiliation ; American Speech-Language-Hearing Association:Professional:Membership; Dysphagia Research Society: Professional:Membership | Michael Hammer: Nothing to Disclose | Taher Omari: Nothing to Disclose | Timothy McCulloch: Nothing to Disclose

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#40

### LARYNGEAL SENSORY TESTING: A PILOT STUDY INVESTIGATING THE INTENSITY OF THE TOUCH AND RESPONSIVE REFLEXES

Kaneoka, Asako<sup>1,2</sup>; Pisegna, Jessica M.<sup>1</sup>; Krisciunas, Gintas<sup>3</sup>; Nito, Takaharu<sup>4</sup>; Stepp, Cara E.<sup>1,3</sup>; LaValley, Michael P.<sup>5</sup>; Langmore, Susan E.<sup>1</sup>

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Asako Kaneoka: Nothing to Disclose | Jessica Pisegna: Nothing to Disclose | Gintas Krisciunas: Nothing to Disclose | Takaharu Nito: Nothing to Disclose | Cara Stepp: Nothing to Disclose | Michael LaValley: Nothing to Disclose | Susan Langmore: Nothing to Disclose

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#41

### ADVERSE EVENTS ASSOCIATED WITH INTAKE OF THIN LIQUIDS VERSUS THICK LIQUIDS IN PATIENTS WHO ASPIRATE: A SYSTEMATIC REVIEW AND META-ANALYSIS

Kaneoka, Asako<sup>1,2</sup>; Pisegna, Jessica M.<sup>1</sup>; Saito, Hiroki<sup>3</sup>; Lo, Melody<sup>4</sup>; Felling , Katey<sup>1</sup>; Haga, Nobuhiko<sup>2</sup>; LaValley, Michael P.<sup>5</sup>; Langmore, Susan E.<sup>1</sup>

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Asako Kaneoka: Nothing to Disclose | Jessica Pisegna: Nothing to Disclose | Hiroki Saito: Nothing to Disclose | Melody Lo: Nothing to Disclose | Katey Felling : Nothing to Disclose | Nobuhiko Haga: Nothing to Disclose | Michael LaValley: Nothing to Disclose | Susan Langmore: Nothing to Disclose

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#42

### SUBMUCOSAL ELASTIC LAMINAE OF THE MIDDLE AND LOWER PHARYNX: A HISTOLOGICAL STUDY USING ELDERLY CADAVERIC SPECIMENS

Katori, Yukio<sup>1</sup>; Kawamoto, Ai<sup>1</sup>; Honkura, Yohei<sup>1</sup>

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**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Yukio Katori: Has a Non-Financial Disclosure Affiliation ;Japan Otolaryngological Society:Professional:Membership | Ai Kawamoto: Has a Non-Financial Disclosure Affiliation ;Tohoku University:Institutional:Volunteer teaching and speaking | Yohei Honkura: Has a Non-Financial Disclosure Affiliation ;Tohoku University:Institutional:Volunteer teaching and speaking

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#43

### **COMPUTER SIMULATION BASED ON 320-ROW AREA DETECTOR COMPUTED TOMOGRAPHY TO ELUCIDATE BIOMECHANICS OF SWALLOWING**

Kikuchi, Takahiro<sup>1</sup>; Michiwaki, Yukihiko<sup>1</sup>; Kamiya, Tetsu<sup>2</sup>; Toyama, Yoshio<sup>2</sup>; Wada, Tetsuya<sup>2</sup>; Jinno, Nobuko<sup>2</sup>; Takai, Megumi<sup>2</sup>; Hanyu, Keigo<sup>2</sup>; Inamoto, Yoko<sup>3</sup>; Saitoh, Eiichi<sup>4</sup>

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3. Faculty of Rehabilitation, School of Health Sciences, Fujita Health University, Toyoake, Aichi, Japan
4. Department of Rehabilitation, School of Medicine, Fujita Health University, Toyoake, Aichi, Japan

**RELEVANT FINANCIAL RELATIONSHIPS :** Takahiro Kikuchi: Has affiliations to disclose ; Japanese Red Cross Musashino Hospital: Salary/Stipend: Employment | Yukihiko Michiwaki: Nothing to Disclose | Tetsu Kamiya: Nothing to Disclose | Yoshio Toyama: Nothing to Disclose | Tetsuya Wada: Nothing to Disclose | Nobuko Jinno: Nothing to Disclose | Megumi Takai: Nothing to Disclose | Keigo Hanyu: Nothing to Disclose | Yoko Inamoto: Nothing to Disclose | Eiichi Saitoh: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Takahiro Kikuchi: Nothing to Disclose | Yukihiko Michiwaki: Nothing to Disclose | Tetsu Kamiya: Nothing to Disclose | Yoshio Toyama: Nothing to Disclose | Tetsuya Wada: Nothing to Disclose | Nobuko Jinno: Nothing to Disclose | Megumi Takai: Nothing to Disclose | Keigo Hanyu: Nothing to Disclose | Yoko Inamoto: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership | Eiichi Saitoh: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership

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#44

### **PROGRAMMED CELL DEATH IN AGING TONGUE MUSCULATURE**

Kletzien, Heidi<sup>1,2</sup>; Glass, Tiffany J.<sup>1</sup>; Connor, Nadine P.<sup>1,2,3</sup>

1. Surgery, Division of Otolaryngology Head and Neck Surgery, University of Wisconsin-Madison, Madison, WI, United States
2. Biomedical Engineering, University of Wisconsin-Madison, Madison, WI, United States
3. Communication Sciences and Disorders, University of Wisconsin-Madison, Madison, WI, United States

**RELEVANT FINANCIAL RELATIONSHIPS :** Heidi Kletzien: Nothing to Disclose | Tiffany Glass: Nothing to Disclose | Nadine Connor: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Heidi Kletzien: Nothing to Disclose | Tiffany Glass: Nothing to Disclose | Nadine Connor: Nothing to Disclose

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#45

### **THE INFLUENCE OF BODY POSTURE ON SWALLOWING MUSCULATURE ACTIVITY DURING HEAD RAISING EXERCISE**

Koshi, Naomi<sup>1</sup>; Matsumoto, Hiromi<sup>2</sup>; Hagino, Hiroshi<sup>2,3</sup>

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2. Division of Rehabilitation, Tottori University Hospital, Yonago, Tottori, Japan
3. School of Health Science, Tottori University Faculty of Medicine, Yonago, Tottori, Japan

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**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Naomi Koshi: Nothing to Disclose | Hiromi Matsumoto: Nothing to Disclose | Hiroshi Hagino: Nothing to Disclose

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#46

### **SELF-REPORTED DYSPHAGIA AND MORTALITY RISK: A SURVIVAL ANALYSIS**

LaGorio, Lisa A.<sup>1</sup>; Shah, Raj C.<sup>2</sup>; Buchman, Aron S.<sup>2</sup>; Leurgans, Sue<sup>2</sup>; Bennett, David A.<sup>2</sup>

1. Communication Disorders and Sciences, Rush University, Chicago, IL, United States
2. Rush Alzheimer's Disease Center, Rush University Medical Center, Chicago, IL, United States

**RELEVANT FINANCIAL RELATIONSHIPS :** Lisa LaGorio: Has affiliations to disclose;Rush University:Salary/Stipend:Employment | Raj Shah: Has affiliations to disclose;Rush University Medical Center:Salary/Stipend:Employment | Aron Buchman: Has affiliations to disclose;Rush University Medical Center:Salary/Stipend:Employment | Sue Leurgans: Has affiliations to disclose;Rush University Medical

Center:Salary/Stipend:Employment;NIH/NIA:Grant:Other Activities | David Bennett: Has affiliations to disclose;Rush University Medical Center:Salary/Stipend:Employment;NIH/NIA:Grant:Other Activities

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Lisa LaGorio: Nothing to Disclose | Raj Shah: Nothing to Disclose | Aron Buchman: Nothing to Disclose | Sue Leurgans: Nothing to Disclose | David Bennett: Nothing to Disclose

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#47

**ACCURACY OF CLINICAL SWALLOWING EXAMINATION FOR DIAGNOSIS OF DYSPHAGIA IN CHILDREN WITH LARYNGOMALACIA OR GLOSSOPTOSIS**

Levy, Deborah S.<sup>1</sup>

1. Psicologia, UFRGS, Porto Alegre, RS, Brazil

**RELEVANT FINANCIAL RELATIONSHIPS :** Deborah Levy: Has affiliations to disclose; Federal University of Rio Grande do Sul- Brazil: Salary/Stipend: Employment

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Deborah Levy: Nothing to Disclose

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#48

**AGE AND PRE-ORAL SENSATION IMPACT THE MAGNITUDE OF ANTICIPATORY LIP/JAW LOWERING**

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2. University of Iowa, Iowa City, IA, United States

**RELEVANT FINANCIAL RELATIONSHIPS :** Samantha Shune: Has affiliations to disclose;NIA-NIH:Grant:Other Activities;University of Oregon:Salary/Stipend:Employment | Jerald Moon: Has affiliations to disclose;University of Iowa:Salary/Stipend:Employment

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Samantha Shune: Nothing to Disclose | Jerald Moon: Nothing to Disclose

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#49

**DYSPHAGIA AND SPEECH PATHOLOGY INVOLVEMENT IN CHILDREN ADMITTED TO HOSPITAL POST-CHEMICAL INGESTION INJURY**

Follent, Anna M.<sup>1</sup>; Ward, Elizabeth C.<sup>2</sup>; Rumbach, Anna<sup>1</sup>; Dodrill, Pamela<sup>3</sup>; Lewindon, Peter<sup>4</sup>

1. School of Health and Rehabilitation Sciences, The University of Queensland, Southport, Queensland, Australia

2. Centre for Functioning and Health Research, Brisbane, Queensland, Australia

3. Speech-Language Pathology , Boston Children's Hospital, Boston, MA, United States

4. Queensland Paediatric Gastroenterology, Hepatology and Nutrition Service, Lady Cilento Children's Hospital , Brisbane, Queensland, Australia

**RELEVANT FINANCIAL RELATIONSHIPS :** Anna Follent: Has affiliations to disclose; Australian Postgraduate Award:Grant: Other Activities| Elizabeth Ward: Nothing to Disclose | Anna Rumbach: Nothing to Disclose | Pamela Dodrill: Nothing to Disclose | Peter Lewindon: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Anna Follent: Nothing to Disclose | Elizabeth Ward: Has a Non-Financial Disclosure Affiliation ;Centre for Functioning and Health Research:Professional:Membership;The University of Queensland:Institutional:Membership | Anna Rumbach: Nothing to Disclose | Pamela Dodrill: Has a Non-Financial Disclosure Affiliation ;Boston Children's Hospital:Professional:Membership | Peter Lewindon: Nothing to Disclose

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#50

**PREVALENCE OF ESOPHAGEAL FINDINGS IN ADULTS VIA MBS WITH ESOPHAGEAL ASSESSMENT.**

Litwack, Amy<sup>1</sup>; Kelly Arsenault, Joan<sup>1</sup>; Brand, Stephen J.<sup>1</sup>; Morgan, Lori B.<sup>2</sup>; Baumer, Joane<sup>1,3,4,5,6</sup>

1. MassTex Imaging, Danvers, MA, United States

2. Neurology, Medical College of Georgia, Augusta, GA, United States

3. Department of Family Medicine, JPS Health Network, Fort Worth, TX, United States

4. RCHI, Texas A&M, College Station, TX, United States

5. Professional Imaging, PLLC, Houston, TX, United States

6. Diagnostic Imaging, PLCC, Forth Worth, TX, United States

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LLC:Salary/Stipend:Employment | Lori Morgan: Nothing to Disclose | Joane Baumer: Has affiliations to disclose;MassTex Imaging:Ownership interest(e.g.,stocks, stock options or other ownership interest excluding diversified mutual funds):Ownership;JPS Health Network:Salary/Stipend:Teaching and speaking;Texas A&M:Salary/Stipend:Teaching and speaking;Professional Imaging, PLLC:Ownership interest(e.g.,stocks, stock options or other ownership interest excluding diversified mutual funds):Ownership;Diagnostic Imaging, PLLC:Ownership interest(e.g.,stocks, stock options or other ownership interest excluding diversified mutual funds):Ownership

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Amy Litwack: Nothing to Disclose | Joan Kelly Arsenault: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership | Stephen Brand: Nothing to Disclose | Lori Morgan: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership | Joane Baumer: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership

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## #51

### SWALLOW OUTCOMES FOLLOWING ORGAN PRESERVATION BASED ON PRE-SWALLOW STATUS

Lundy, Donna S.<sup>3</sup>; Landera, Mario<sup>3</sup>; Sargi, Zoukaa<sup>3</sup>; Demane, Amanda G.<sup>3</sup>; Nayak, Chetan<sup>3</sup>; Samuels, Michael<sup>2</sup>; Elsayyad, Nagy<sup>2</sup>; Lo, Kaming<sup>1</sup>

1. Biostatistics, U of Miami , Miami, FL, United States
2. Radiation Oncology, U of Miami, Miami, FL, United States
3. Otolaryngology, U of Miami , Miami, FL, United States

**RELEVANT FINANCIAL RELATIONSHIPS :** Donna Lundy: Nothing to Disclose | Mario Landera: Nothing to Disclose | Zoukaa Sargi: Nothing to Disclose | Amanda Demane: Nothing to Disclose | Chetan Nayak: Nothing to Disclose | Michael Samuels: Nothing to Disclose | Nagy Elsayyad: Nothing to Disclose | Kaming Lo: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Donna Lundy: Nothing to Disclose | Mario Landera: Nothing to Disclose | Zoukaa Sargi: Nothing to Disclose | Amanda Demane: Nothing to Disclose | Chetan Nayak: Nothing to Disclose | Michael Samuels: Nothing to Disclose | Nagy Elsayyad: Nothing to Disclose | Kaming Lo: Nothing to Disclose

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## #52

### A COMBINATION OF FEEDBACK IS REQUIRED TO MANIPULATE VOLITIONAL AIRWAY PROTECTION DURING SWALLOWING

Macrae, Phoebe<sup>1,2</sup>; Humbert, Ianessa A.<sup>3</sup>

1. Communication Disorders, University of Canterbury, Christchurch, New Zealand
2. University of Canterbury, Rose Centre for Stroke Recovery and Research, Christchurch, New Zealand
3. University of Florida, Gainesville, FL, United States

**RELEVANT FINANCIAL RELATIONSHIPS :** Phoebe Macrae: Has affiliations to disclose;University of canterbury:Salary/Stipend:Employment;Northern Speech Services:Royalty:Teaching and speaking | Ianessa Humbert: Has affiliations to disclose;university of florida:Salary/Stipend:Employment;Northern Speech Services:Royalty:Teaching and speaking;Medbridge:Royalty:Teaching and speaking;National Institutes of Health:Grant:Other Activities;American Heart Association:Grant:Other Activities;American Speech Language Hearing Foundation:Grant:Other Activities

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Phoebe Macrae: Has a Non-Financial Disclosure Affiliation ;University of Canterbury Rose Centre for Stroke Recovery and Research:Institutional:Membership | Ianessa Humbert: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership

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## #53

### DEVELOPMENT OF A SCREENING TOOL FOR PRE-CLINICAL DYSPHAGIA IN THE COMMUNITY DWELLING ELDERLY

Madhavan, Aarthi<sup>1</sup>; Chhabria , Karishma<sup>3</sup>; Carnaby, Giselle<sup>2</sup>; Crary, Michael A.<sup>2</sup>

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2. Swallowing Research Laboratory, University of Central Florida, Orlando, FL, United States
3. University of Florida, Gainesville, FL, United States

**RELEVANT FINANCIAL RELATIONSHIPS :** Aarthi Madhavan: Nothing to Disclose | Karishma Chhabria : Nothing to Disclose | Giselle Carnaby: Nothing to Disclose | Michael Crary: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Aarthi Madhavan: Nothing to Disclose | Karishma Chhabria : Nothing to Disclose | Giselle Carnaby: Nothing to Disclose | Michael Crary: Nothing to Disclose

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#54

**RESPIRATORY AND SWALLOWING DYNAMICS IN THE PRESENCE OF EXPIRATORY MUSCLE FATIGUE IN HEALTHY YOUNG ADULTS**

Malatra, Ioanna<sup>1</sup>

1. Biobehavioral Studies, TC, Columbia University, New York, NY, United States

**RELEVANT FINANCIAL RELATIONSHIPS** : Ioanna Malatra: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Ioanna Malatra: Nothing to Disclose

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#55

**PRELIMINARY EVALUATION OF THE EFFECTS OF AN 8-WEEK INTENSIVE FEEDING PROGRAM ON FEEDING BEHAVIORS IN PEDIATRIC PATIENTS WITH FEEDING DISORDERS**

Barnes, Margaux J.<sup>1</sup>; Dimmitt, Reed <sup>1</sup>; Mastin, Michelle<sup>2</sup>

1. Pediatrics, University of Alabama at Birmingham, Birmingham, AL, United States

2. Intensive Feeding Program, Children's of Alabama, Birmingham, AL, United States

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Margaux Barnes: Nothing to Disclose | Reed Dimmitt: Nothing to Disclose | Michelle Mastin: Nothing to Disclose

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#56

**ADEQUACY OF DYSPHAGIA GRADUATE PREPARATION IN THE UNITED STATES: RESULTS OF A NATIONAL SURVEY**

McCoy, Yvette<sup>2</sup>; Varindani Desai, Rinki<sup>1</sup>

1. Rochester General Health System, Rochester, NY, United States

2. MedStar National Rehabilitation Hospital, Washington, United States

**RELEVANT FINANCIAL RELATIONSHIPS** : Yvette McCoy: Has affiliations to disclose; MedStar National Rehabilitation Hospital/St. Mary's Hospital Salary/Stipend: Employment; Northern Speech Services:Royalty:Other Activities; Dysphagia Therapy App, Tactus Therapy, LLC:Royalty:Other Activities | Rinki Varindani Desai: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Yvette McCoy: Nothing to Disclose | Rinki Varindani Desai: Nothing to Disclose

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#57

**PREDICTING THE EFFECTS OF SURGERY ON UES DYSFUNCTION USING A PATIENT-SPECIFIC 4D COMPUTER SIMULATION**

Michiwaki, Yukihiro<sup>1</sup>; Kikuchi, Takahiro<sup>1</sup>; Kamiya, Tetsu<sup>2</sup>; Toyama, Yoshio<sup>2</sup>; Wada, Tetsuya<sup>2</sup>; Jinno, Nobuko<sup>2</sup>; Takai, Megumi<sup>2</sup>; Hanyu, Keigo<sup>2</sup>

1. Oral Surgery Division, Japanese Red Cross Musashino Hospital, Musashino, Tokyo, Japan

2. R&D Division, Meiji Co., Ltd., Odawara, Kanagawa, Japan

**RELEVANT FINANCIAL RELATIONSHIPS** : Yukihiro Michiwaki: Has affiliations to disclose; Japanese Red Cross Musashino Hospital: Salary/Stipend: Employment| Takahiro Kikuchi: Nothing to Disclose | Tetsu Kamiya: Nothing to Disclose | Yoshio Toyama: Nothing to Disclose | Tetsuya Wada: Nothing to Disclose | Nobuko Jinno: Nothing to Disclose | Megumi Takai: Nothing to Disclose | Keigo Hanyu: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Yukihiro Michiwaki: Nothing to Disclose | Takahiro Kikuchi: Nothing to Disclose | Tetsu Kamiya: Nothing to Disclose | Yoshio Toyama: Nothing to Disclose | Tetsuya Wada: Nothing to Disclose | Nobuko Jinno: Nothing to Disclose | Megumi Takai: Nothing to Disclose | Keigo Hanyu: Nothing to Disclose

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#58

**QUANTITATIVE OBJECTIVE SWALLOWING MEASURES OF TIMING & DISPLACEMENT IN CHILDREN**

Miles, Anna<sup>1</sup>; Beatson, Mandy<sup>1,2</sup>; Peryman, Sophie<sup>1</sup>; Allen, Jacqueline<sup>1,3</sup>

1. The University of Auckland, Auckland, New Zealand

2. Allied Health, Starship Children's Hospital, Auckland District Health Board, Auckland, New Zealand

3. ORL, Waitemata District Health Board, Auckland, New Zealand

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**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Anna Miles: Nothing to Disclose | Mandy Beatson: Nothing to Disclose | Sophie Peryman: Nothing to Disclose | Jacqueline Allen: Nothing to Disclose

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#59

**MODIFICATIONS OF THE TASTE AND SMELL AND THE PRESENCE OF PENETRATION/ASPIRATION IN ELDERLY WITHOUT NEUROLOGICAL DISORDERS AND PARKINSONIAN SYNDROME**

Mourao, Lucia F.<sup>1</sup>; LIMA, DANIELLA P.<sup>1</sup>

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**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Lucia Mourao: Nothing to Disclose | Daniella Lima: Nothing to Disclose

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#60

**THE ROLE OF GENETICS AND COGNITION IN HUNTINGTON'S DISEASE DYSPHAGIA**

Calasans dos Santos, Beatriz <sup>1</sup>; Lima, Daniella P.<sup>1</sup>; Azevedo, Paula Christina<sup>1</sup>; Mourao, Lucia F.<sup>1</sup>

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**RELEVANT FINANCIAL RELATIONSHIPS :** Beatriz Calasans dos Santos: Nothing to Disclose | Daniella Lima: Nothing to Disclose | Paula Christina Azevedo: Nothing to Disclose | Lucia Mourao: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Beatriz Calasans dos Santos: Nothing to Disclose | Daniella Lima: Nothing to Disclose | Paula Christina Azevedo: Nothing to Disclose | Lucia Mourao: Nothing to Disclose

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#61

**OROPHARYNGEAL STRENGTHENING THERAPY IN THE SKILLED NURSING ENVIRONMENT: A MULTI-SITE CLINICAL INITIATIVE**

Nikolaisen, Salena<sup>1</sup>; Jenkins, Jenna<sup>1</sup>; Olds, Katy<sup>1</sup>; Hind, Jacqueline<sup>2,3</sup>; Almon-Matangos, Susan<sup>1</sup>

1. Aegis Therapies, Plano, TX, United States
2. University of Wisconsin-Madison, Madison, WI, United States
3. Swallow Solutions, Madison, WI, United States

**RELEVANT FINANCIAL RELATIONSHIPS :** Salena Nikolaisen: Has affiliations to disclose;Aegis Therapies:Salary/Stipend:Employment | Jenna Jenkins: Has affiliations to disclose;Aegis Therapies:Salary/Stipend:Employment | Katy Olds: Has affiliations to disclose;Aegis Therapies:Salary/Stipend:Employment | Jacqueline Hind: Has affiliations to disclose;University of Wisconsin:Salary/Stipend:Employment;Swallow Solutions:Salary/Stipend:Employment | Susan Almon-Matangos: Has affiliations to disclose;Aegis Therapies:Salary/Stipend:Employment

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Salena Nikolaisen: Nothing to Disclose | Jenna Jenkins: Nothing to Disclose | Katy Olds: Nothing to Disclose | Jacqueline Hind: Has a Non-Financial Disclosure Affiliation ;Dysphagia Research Society:Professional:Membership | Susan Almon-Matangos: Nothing to Disclose

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#62

**IMPACTS OF WEARING DENTURES ON ORO-PHARYNGEAL MOVEMENT DURING PHARYNGEAL SWALLOWING.**

Onodera, Shohei<sup>1</sup>; Furuya, Junichi<sup>1,2</sup>; Tamada, Yasushi<sup>1</sup>; Yamamoto, Hisanori<sup>1</sup>; Sato, Tomohide<sup>1</sup>; Hara, Atsushi<sup>1</sup>; Itsukaichi, Atsuhiko<sup>1</sup>; Aki, Saori<sup>1</sup>; Kondo, Hisatomo<sup>1</sup>

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**RELEVANT FINANCIAL RELATIONSHIPS :** Shohei Onodera: Nothing to Disclose | Junichi Furuya: Nothing to Disclose | Yasushi Tamada: Nothing to Disclose | Hisanori Yamamoto: Nothing to Disclose | Tomohide Sato: Nothing to Disclose | Atsushi Hara: Nothing to Disclose | Atsuhiko Itsukaichi: Nothing to Disclose | Saori Aki: Nothing to Disclose | Hisatomo Kondo: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Shohei Onodera: Nothing to Disclose | Junichi Furuya: Nothing to Disclose | Yasushi Tamada: Nothing to Disclose | Hisanori Yamamoto: Nothing to Disclose | Tomohide Sato: Nothing to Disclose | Atsushi Hara: Nothing to Disclose | Atsuhiko Itsukaichi: Nothing to Disclose | Saori Aki: Nothing to Disclose | Hisatomo Kondo: Nothing to Disclose

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#63

### SWALLOWING IMPAIRMENT IN MYOTONIC DYSTROPHY AND ITS IMPACT ON QUALITY OF LIFE

Pilz, Walmari<sup>1</sup>; Baijens, Laura W<sup>1</sup>; Lima Passos, Valeria<sup>2</sup>; Verdonschot, Rob<sup>1</sup>; Meijers, Jolanda H.<sup>3</sup>; Roodenburg, Nel<sup>4</sup>; Kremer, Bernd<sup>1</sup>

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3. Department of Radiology, Maastricht University Medical Center, Maastricht, Netherlands
4. Department of Neurology, Maastricht University Medical Center, Maastricht, Netherlands

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Walmari Pilz: Nothing to Disclose | Laura W Baijens: Has a Non-Financial Disclosure Affiliation ;DRS:Personal interest:Membership | Valeria Lima Passos: Nothing to Disclose | Rob Verdonschot: Nothing to Disclose | Jolanda Meijers: Nothing to Disclose | Nel Roodenburg: Nothing to Disclose | Bernd Kremer: Nothing to Disclose

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#64

### DANGER ZONES: RATING RESIDUE IN 3 ZONES TO IDENTIFY THOSE AT RISK FOR PENETRATION/ASPIRATION ON FEES

Pisegna, Jessica M.<sup>1</sup>; Kaneoka, Asako<sup>1</sup>; Langmore, Susan E.<sup>1</sup>

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**RELEVANT FINANCIAL RELATIONSHIPS** : Jessica Pisegna:Has affiliations to disclose; National Institute On Deafness And Other Communication Disorders of the National Institutes of Health under Award Number R01DC012584:Grant: Other Activities| Asako Kaneoka: Nothing to Disclose | Susan Langmore: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Jessica Pisegna: Nothing to Disclose | Asako Kaneoka: Nothing to Disclose | Susan Langmore: Nothing to Disclose

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#65

### THE RELATIONSHIP BETWEEN VOCAL PITCH ELEVATION AND ASPIRATION: ADDING TO THE EVIDENCE

Rajappa, Akila T.<sup>1</sup>; Soriano, Kristie<sup>2</sup>; Ziemer, Courtney<sup>2</sup>; Malandraki, Georgia A.<sup>3</sup>

1. Biobehavioral Sciences, Teachers College, Columbia University, Wayne, NJ, United States
2. Speech Pathology and Audiology Department, JFK Medical Center, Edison, NJ, United States
3. Speech, Language and Hearing Sciences, Purdue University , West Lafayette, IN, United States

**RELEVANT FINANCIAL RELATIONSHIPS** : Akila Rajappa: Nothing to Disclose | Kristie Soriano: Nothing to Disclose | Courtney Ziemer: Nothing to Disclose | Georgia Malandraki: Has affiliations to disclose;Purdue University:Salary/Stipend:Employment

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Akila Rajappa: Nothing to Disclose | Kristie Soriano: Nothing to Disclose | Courtney Ziemer: Nothing to Disclose | Georgia Malandraki: Has a Non-Financial Disclosure Affiliation ;Purdue University:Professional:Membership

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#66

### PATIENT-REPORTED SWALLOWING OUTCOMES FOLLOWING 3-DIMENSIONAL CONFORMAL AND INTENSITY-MODULATED RADIOTHERAPY FOR HEAD AND NECK CANCER.

Roe, Justin W.<sup>1,2</sup>; Carding, Paul N.<sup>3</sup>; Drinnan, Michael J.<sup>4,5</sup>; McColl, Elaine<sup>6</sup>; Harrington, Kevin J.<sup>1,2</sup>; Wilson, Janet A.<sup>7,6</sup>; Nutting, Christopher M.<sup>1,2</sup>; Patterson, Joanne M.<sup>6,8</sup>

1. The Royal Marsden NHS Foundation Trust, London, United Kingdom
2. The Institute of Cancer Research, London, United Kingdom
3. School of Allied Health, Australian Catholic University, Brisbane, Queensland, Australia
4. Medical Physics, Newcastle Hospitals NHS Foundation Trust, Newcastle, United Kingdom
5. Institute of Cellular Medicine, Newcastle University, Newcastle upon Tyne, United Kingdom
6. Institute of Health and Society, Newcastle University, Newcastle upon Tyne, United Kingdom
7. Otolaryngology, Head and Neck Surgery, Newcastle Hospitals NHS Foundation Trust, Newcastle upon Tyne, United Kingdom
8. Speech and Language Therapy, City Hospitals Sunderland NHS Foundation Trust, Sunderland, United Kingdom

**RELEVANT FINANCIAL RELATIONSHIPS** : Justin Roe: Has affiliations to disclose;The Royal Marsden NHS Foundation Trust:Salary/Stipend:Employment | Paul Carding: Has affiliations to disclose;Australian Catholic University:Salary/Stipend:Employment | Michael Drinnan: Has affiliations to disclose;Newcastle Hospitals NHS Foundation Trust:Salary/Stipend:Employment | Elaine McColl: Has affiliations to disclose;Newcastle University:Salary/Stipend:Employment |

Kevin Harrington: Has affiliations to disclose;The Royal Marsden NHS Foundation Trust:Salary/Stipend:Employment;The Institute of Cancer Research:Salary/Stipend:Employment | Janet Wilson: Has affiliations to disclose;Newcastle Hospitals NHS Foundation Trust:Salary/Stipend:Employment | Christopher Nutting: Has affiliations to disclose;the Royal Marsden NHS Foundation Trust:Salary/Stipend:Employment | Joanne Patterson: Has affiliations to disclose;City Hospitals Sunderland:Salary/Stipend:Employment;National Institute for Health Research:Contracted Research:Employment

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Justin Roe: Nothing to Disclose | Paul Carding: Nothing to Disclose | Michael Drinnan: Nothing to Disclose | Elaine McColl: Nothing to Disclose | Kevin Harrington: Nothing to Disclose | Janet Wilson: Nothing to Disclose | Christopher Nutting: Nothing to Disclose | Joanne Patterson: Nothing to Disclose to disclose | Janet Wilson: Nothing to disclose | Christopher Nutting: Nothing to disclose | Joanne Patterson: Nothing to disclose

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#67

### **SALIVARY QUANTITY AND VISCOSITY: EFFECTS ON PERCEIVED SWALLOW EFFORT AND OROPHARYNGEAL RESIDUE IN PATIENTS WITH DYSPHAGIA**

Rogus-Pulia, Nicole<sup>1,2</sup>; Nicosia, Mark A.<sup>3</sup>; Rusche, Nicole<sup>1</sup>; Firoozmand, Hassan<sup>4</sup>; Hartel, Rich<sup>4</sup>; Robbins, JoAnne<sup>1,2</sup>

1. Geriatric Research Education and Clinical Center, William S. Middleton Memorial Veterans Hospital, Madison, WI, United States
2. Medicine, University of Wisconsin-Madison, Madison, WI, United States
3. Mechanical Engineering, Widener University, Chester, PA, United States
4. Food Science, University of Wisconsin-Madison, Madison, WI, United States

**RELEVANT FINANCIAL RELATIONSHIPS :** Nicole Rogus-Pulia: Has affiliations to disclose;William S. Middleton Memorial Veterans Hospital:Salary/Stipend:Employment | Mark Nicosia: Has affiliations to disclose;Widener University:Salary/Stipend:Employment | Nicole Rusche: Has affiliations to disclose;William S. Middleton Memorial Veterans Hospital:Salary/Stipend:Employment | Hassan Firoozmand: Has affiliations to disclose;University of Wisconsin-Madison:Salary/Stipend:Employment | Rich Hartel: Has affiliations to disclose;University of Wisconsin-Madison:Salary/Stipend:Employment | JoAnne Robbins: Has affiliations to disclose;William S. Middleton Memorial Veterans Hospital:Salary/Stipend:Employment;University of Wisconsin-Madison:Salary/Stipend:Employment;Infinity Rehab:Honoraria:Teaching and speaking;The Retirement Research Foundation:Honoraria:Teaching and speaking;Rehabilitation Institute of Chicago:Honoraria:Teaching and speaking;Northern Speech Services and John Wiley & Sons:Royalty:Other Activities

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Nicole Rogus-Pulia: Has a Non-Financial Disclosure Affiliation ;Dysphagia Research Society:Professional:Membership;American Speech-Language-Hearing Association:Professional:Membership | Mark Nicosia: Nothing to Disclose | Nicole Rusche: Nothing to Disclose | Hassan Firoozmand: Nothing to Disclose | Rich Hartel: Nothing to Disclose | JoAnne Robbins: Has a Non-Financial Disclosure Affiliation ;Swallow Solutions:Professional:Board membership;Wisconsin Alumni Research Foundation:Professional: Other volunteer activities

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#68

### **CHANGES IN TRANSMISSION OF ORAL SENSORY INFORMATION DURING SWALLOWING IN ANESTHETIZED RABBITS**

Sakai, Shogo<sup>1</sup>; Suzuki, Taku<sup>1</sup>; Tsuji, Kohjun<sup>1</sup>; Magara, Jin<sup>1</sup>; Tsujimura, Takanori<sup>1</sup>; Inoue, Makoto<sup>1</sup>

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**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Shogo Sakai: Nothing to Disclose | Taku Suzuki: Nothing to Disclose | Kohjun Tsuji: Nothing to Disclose | Jin Magara: Nothing to Disclose | Takanori Tsujimura: Nothing to Disclose | Makoto Inoue: Nothing to Disclose

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#69

### **TONGUE STRENGTH IS ASSOCIATED WITH NUTRITIONAL STATUS EVALUATED BY MINI NUTRITIONAL ASSESSMENT-SHORT FORM IN ELDERLY INPATIENTS OF A REHABILITATION HOSPITAL**

Sakai, Kotomi<sup>4,1</sup>; Nakayama, Enri<sup>1</sup>; Tohara, Haruka<sup>3</sup>; Sugimoto, Motonobu<sup>2</sup>; Maeda, Tomomi<sup>2</sup>; Takehisa, Takahiro<sup>5</sup>; Takehisa, Yozo<sup>6</sup>; Ohnishi, Sayako<sup>1</sup>; Hayata, Mayumi<sup>1</sup>; Ueda, Koichiro<sup>1</sup>

1. Dysphagia Rehabilitation, Nihon University School of Dentistry, Tokyo, Japan
2. Internal Medicine, Setagaya Memorial Hospital, Tokyo, Japan
3. Gerodontology and Oral Rehabilitation, Tokyo Medical and Dental University, Tokyo, Japan
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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Kotomi Sakai: Nothing to Disclose | Enri Nakayama: Nothing to Disclose | Haruka Tohara: Has a Non-Financial Disclosure Affiliation ;Japan:Professional:Membership | Motonobu Sugimoto: Nothing to Disclose | Tomomi Maeda: Nothing to Disclose | Takahiro Takehisa: Nothing to Disclose | Yozo Takehisa: Nothing to Disclose | Sayako Ohnishi: Nothing to Disclose | Mayumi Hayata: Nothing to Disclose | Koichiro Ueda: Nothing to Disclose

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#70

**PHARYNGEAL PERISTALTIC PRESSURE PARAMETER MEASURED BY HIGH RESOLUTION MANOMETRY: A VARIABILITY ANALYSIS**

Sanvanson, Patrick P.<sup>1</sup>; Kern, Mark<sup>1</sup>; Balasubramanian, Gokulakrishnan<sup>1</sup>; Mei, Ling<sup>1</sup>; Shaker, Reza<sup>1</sup>

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Patrick Sanvanson: Nothing to Disclose | Mark Kern: Nothing to Disclose | Gokulakrishnan Balasubramanian: Nothing to Disclose | Ling Mei: Nothing to Disclose | Reza Shaker: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership

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#71

**A NOVEL LARYNGEAL SUSPENSION FOR ADVANCED ORAL CANCER CURED BY SUBTOTAL MANDIBLECTOMY: TITANIUM PLATE-MANDIBLE APPROXIMATION TECHNIQUE.**

Sato, Takeshi<sup>1</sup>; Kawamoto, Ai<sup>1</sup>; Ishi, Ryo<sup>1</sup>; Nakanome, Ayako<sup>1</sup>; Ogawa, Takenori<sup>1</sup>; Katori, Yukio<sup>1</sup>

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Takeshi Sato: Nothing to Disclose | Ai Kawamoto: Has a Non-Financial Disclosure Affiliation ;Tohoku University:Institutional:Volunteer teaching and speaking | Ryo Ishi: Nothing to Disclose | Ayako Nakanome: Nothing to Disclose | Takenori Ogawa: Nothing to Disclose | Yukio Katori: Nothing to Disclose

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#72

**THE ROLE OF NEUROTROPHIC FACTORS IN AGE AND EXERCISE-ASSOCIATED GAINS AND MAINTENANCE OF TONGUE FORCE IN RATS.**

Schaser, Allison J.<sup>1,2</sup>; Ciucci, Michelle<sup>2</sup>; Connor, Nadine P.<sup>2</sup>

1. Neurology, Oregon Health and Science University, Portland, OR, United States

2. Communication Sciences and Disorders/Otolaryngology, University of Wisconsin-Madison, Madison, WI, United States

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Allison Schaser: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership | Michelle Ciucci: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership | Nadine Connor: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership

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#73

**SWALLOWING CHARACTERISTICS IN PATIENTS WITH MYOTONIC DYSTROPHY TYPE 1**

Schindler, Antonio<sup>1</sup>; Lorusso, Rosaria<sup>1</sup>; Zardoni, Manuela<sup>2</sup>; Pasanisi, Barbara<sup>3</sup>; Ginocchio, Daniela<sup>1</sup>; Morandi, Lucia<sup>3</sup>; Osio, Maurizio<sup>2</sup>

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2. Neurology, Ospedale L. Sacco, Milano, Italy

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**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Antonio Schindler: Nothing to Disclose | Rosaria Lorusso: Nothing to Disclose | Manuela Zardoni: Nothing to Disclose | Barbara Pasanisi: Nothing to Disclose | Daniela Ginocchio: Nothing to Disclose | Lucia Morandi: Nothing to Disclose | Maurizio Osio: Nothing to Disclose

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#74

**IMPROVING CARE OF PRETERM INFANTS ON A NEONATAL INTENSIVE CARE UNIT ON CYPRUS. DETERMINING THE PREVALENCE, NATURE, AND EXTENT OF FEEDING AND SWALLOWING DIFFICULTIES AND DEVELOPING A RISK SCALE FOR EARLY IDENTIFICATION.**

Senekki Florent, Yiota<sup>1</sup>; Walshe, Margaret<sup>1</sup>; Karaoli, Christina<sup>2</sup>; Vogazianos, Paris<sup>3</sup>

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**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Yiota Senekki Florent: Nothing to Disclose | Margaret Walshe: Nothing to Disclose | Christina Karaoli: Nothing to Disclose | Paris Vogazianos: Nothing to Disclose

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#75

**IDENTIFICATION OF THE TONGUE MOTION AND DRY SWALLOW BY SUPRAHYOID MUSCLES ACTIVITY PATTERN USING MULTI-CHANNEL SURFACE EMG**

Shibamoto, Isamu<sup>1</sup>; Sasaki, Makoto<sup>2</sup>; Nakayama, Atsushi<sup>3</sup>; Kamata, Katsuhiro<sup>4</sup>

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#76

**PHARYNGEAL SWALLOWING POWER: EVALUATING A NOVEL MEASURE OF DEGLUTITIVE BOLUS-DRIVING FUNCTION AND ITS RELATIONSHIP WITH UPPER ESOPHAGEAL SPHINCTER FUNCTION**

Sia, Isaac<sup>3</sup>; McCulloch, Timothy<sup>2</sup>; Sheplak, Mark<sup>1</sup>; Kairalla, John<sup>4</sup>; Carnaby, Giselle<sup>5</sup>; Crary, Michael A.<sup>5</sup>

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#77

**DYSPHAGIA AFTER LUNG TRANSPLANTATION: EXPLORING BEST TREATMENT PRACTICES**

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**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Michele Singer: Nothing to Disclose | Margaret Fynes: Nothing to Disclose

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#78

**SPECTRAL INTERACTIONS BETWEEN THE PRIMARY MOTOR CORTEX AND THE PRIMARY SOMATOSENSORY CORTEX AROUND THE SWALLOW ONSET DURING NATURAL FEEDING OF MACAQUE MONKEY**

Takahashi, Kazutaka<sup>1</sup>; Nakamura, Yuki<sup>2</sup>; Arce-McShane, Fritzie<sup>1</sup>; Sessle, Barry<sup>3</sup>; Inoue, Makoto<sup>2</sup>; Hatsopoulos, Nicholas<sup>1</sup>; Ross, Callum<sup>1</sup>

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#79

**IMPACT OF SALVAGE NECK DISSECTION ON SWALLOWING FUNCTION IN HEAD AND NECK CANCER PATIENTS TREATED WITH PRIMARY CHEMORADIATION THERAPY**

Theurer, Julie<sup>1,2</sup>; Tam, Samantha<sup>2</sup>; Hawkins, Sarah<sup>3</sup>; MacNeil, S. D.<sup>2</sup>; Nichols, Anthony<sup>2</sup>; Yoo, John<sup>2</sup>; Fung, Kevin<sup>2</sup>

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Julie Theurer: Nothing to Disclose | Samantha Tam: Nothing to Disclose | Sarah Hawkins: Nothing to Disclose | S. MacNeil: Nothing to Disclose | Anthony Nichols: Nothing to Disclose | John Yoo: Nothing to Disclose | Kevin Fung: Nothing to Disclose

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#80

**BIOMECHANICAL DIFFERENCES BETWEEN A HEALTHY MAN AND A PATIENT WITH DYSPHAGIA WERE REVEALED WITH PERSON-SPECIFIC 4D COMPUTER SIMULATION**

Toyama, Yoshio<sup>1</sup>; Kamiya, Tetsu<sup>1</sup>; Wada, Tetsuya<sup>1</sup>; Jinno, Nobuko<sup>1</sup>; Takai, Megumi<sup>1</sup>; Hanyu, Keigo<sup>1</sup>; Kikuchi, Takahiro<sup>2</sup>; Michiwaki, Yukihiko<sup>2</sup>

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#81

**CLINICAL PREDICTORS OF AIRWAY PROTECTIVE DYSFUNCTION IN PARKINSON'S DISEASE**

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3. University of Florida, Gainesville, FL, United States

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disclose;Aachen NRW, Germany:Salary/Stipend:Employment | Karen Hegland: Has affiliations to disclose;University of Florida:Salary/Stipend:Employment;NIH:Grant:Other Activities

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Michelle Troche: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership;ISARP:Professional:Membership;ASHA:Professional:Membership | Alexandra Brandimore: Nothing to Disclose | Beate Schumann: Nothing to Disclose | Karen Hegland: Has a Non-Financial Disclosure Affiliation ;ISARP:Professional:Membership;ASHA:Professional:Membership

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#82

### **CHARACTERIZING DYSPHAGIA AND SWALLOWING INTERVENTIONS IN SPINAL CORD INJURY: A SYSTEMATIC REVIEW**

Valenzano, Teresa J.<sup>1,2</sup>; Waito, Ashley A.<sup>1,2</sup>; Steele, Catriona M.<sup>2,1</sup>

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**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Teresa Valenzano: Nothing to Disclose | Ashley Waito: Nothing to Disclose | Catriona Steele: Nothing to Disclose

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#83

### **SPECIFICITY OF ANTERIOR AND POSTERIOR TONGUE STRENGTHENING EXERCISES.**

Van Nuffelen, Gwen<sup>1,2,3</sup>; Van den Steen, Leen<sup>1</sup>; Schellen, Charlotte<sup>4</sup>; Verstraelen, Katja<sup>4</sup>; Vanderwegen, Jan<sup>5,6</sup>; Beeckman, Anne-Sophie E.<sup>4</sup>

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4. Artevelde University College Ghent, Ghent, Belgium
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**RELEVANT FINANCIAL RELATIONSHIPS :** Gwen Van Nuffelen: Nothing to Disclose | Leen Van den Steen: Nothing to Disclose | Charlotte Schellen: Nothing to Disclose | Katja Verstraelen: Nothing to Disclose | Jan Vanderwegen: Nothing to Disclose | Anne-Sophie Beeckman: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Gwen Van Nuffelen: Nothing to Disclose | Leen Van den Steen: Nothing to Disclose | Charlotte Schellen: Nothing to Disclose | Katja Verstraelen: Nothing to Disclose | Jan Vanderwegen: Nothing to Disclose | Anne-Sophie Beeckman: Nothing to Disclose

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#84

### **PROSPECTIVE DOUBLE-BLIND STUDY OF THE AGREEMENT BETWEEN STANDARDIZED CLINICAL SWALLOWING EXAMINATION (CSE) VERSUS FIBEROPTIC ENDOSCOPIC EVALUATION OF SWALLOWING (FEES) FOR PRESENCE, TYPE AND SEVERITY OF DYSPHAGIA, PENETRATION AND ASPIRATION AND DIETARY GUIDELINES**

Massonet, Hanne<sup>3,5</sup>; Vanderwegen, Jan<sup>2,1,3</sup>; Ryckaert, Marie A.<sup>4</sup>; Beeckman, Anne-Sophie E.<sup>3,6</sup>

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2. Speech Language Pathology & Audiology, Thomas More University College, Antwerp, Antwerp, Belgium
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4. ENT and Communication Disorders, Jessa Hospital, Saint-Ursula, Herk-de-Stad, Limburg, Belgium
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#85

## DEVELOPMENT AND PRELIMINARY PERFORMANCE OF A NEONATAL CLINICAL FEEDING ASSESSMENT SCALE

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Mari Viviers: Nothing to Disclose | Alta Kritzinger: Nothing to Disclose

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#86

## CLINICIAN ACCURACY IN IDENTIFYING SWALLOWING PATHOPHYSIOLOGIES

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Alicia Vose: Nothing to Disclose | Kirstyn Sunday: Nothing to Disclose | Ianessa Humbert: Nothing to Disclose

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#87

## PREVALENCE OF MEALTIME-SPECIFIC DISTRESS IN CARERS OF HEAD/NECK CANCER PATIENTS RECEIVING (CHEMO)RADIOTHERAPY

Wall, Laurelie<sup>1,2,3</sup>; Cartmill, Bena<sup>1,3</sup>; Ward, Elizabeth C.<sup>1,2</sup>; Hill, Anne J.<sup>2</sup>; Nund, Rebecca L.<sup>2</sup>; Hutchison, Alana<sup>2</sup>; Isenring, Elizabeth<sup>4,5</sup>; Byrnes, Joshua<sup>6</sup>; Chambers, Suzanne<sup>7</sup>; Dunn, Jeff<sup>8</sup>; Nixon, Jodie<sup>9</sup>; Porceddu, Sandro V.<sup>10,11</sup>

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5. Nutrition & Dietetics Department, Princess Alexandra Hospital, Brisbane, Queensland, Australia
6. School of Medicine, Griffith University, Brisbane, Queensland, Australia
7. Preventative Health and Area of Strategic Investment for Chronic Disease Prevention, Griffith University, Southport, Queensland, Australia
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#88

**HOSPITAL READMISSIONS FOR STROKE PATIENTS WITH PEG FEEDING TUBES: AN ANALYSIS OF HCUP SID FLORIDA 2012**

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Janina Wilmskoetter: Nothing to Disclose | Kit Simpson: Nothing to Disclose | Heather Bonilha: Nothing to Disclose

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#89

**DYSPHAGIA IS CHARACTERIZED BY INADEQUATE LARYNGEAL ELEVATION TO CLOSE THE VESTIBULE DURING SWALLOWING**

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#90

**DYSPHAGIA AND REFLUX: A MIXED-METHODS STUDY OF PATIENT VIEWS ON REFLUX MEDICATION ROUTINES**

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**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Jessica Pisegna: Nothing to Disclose | Sky Yang: Nothing to Disclose | Victoria Reagan: Nothing to Disclose | Audrey Purcell: Nothing to Disclose | Alix Rubio: Nothing to Disclose

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#91

**SCREENING FOR DYSPHAGIA IN PEOPLE WITH PARKINSON'S DISEASE: A SYSTEMATIC REVIEW**

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**RELEVANT FINANCIAL RELATIONSHIPS** : Erin Yeates: Nothing to Disclose | Charlotte Mistry: Nothing to Disclose | Loredana Cuglietta: Nothing to Disclose | Connie Marras: Nothing to Disclose | Rosemary Martino: Nothing to Disclose

**RELEVANT NON-FINANCIAL RELATIONSHIPS**: Erin Yeates: Nothing to Disclose | Charlotte Mistry: Nothing to Disclose | Loredana Cuglietta: Nothing to Disclose | Connie Marras: Nothing to Disclose | Rosemary Martino: Nothing to Disclose

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#92

**A QUANTITATIVE APPROACH TO BOLUS SHAPE VARIATION IN INFANTS WITH RLN LESION INDUCED ASPIRATION**

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**RELEVANT NON-FINANCIAL RELATIONSHIPS:** Benjamin Yglesias: Nothing to Disclose | Francois Gould: Nothing to Disclose | Jocelyn Ohlemacher: Nothing to Disclose | rz german: Has a Non-Financial Disclosure Affiliation ;DRS:Professional:Membership

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