

**Emily K. Plowman, Ph.D. CCC-SLP**

Associate Professor

Departments of Speech, Language and Hearing Sciences and Disorders, Physical Therapy and Neurology

Co-Director, Swallowing Systems Core

Clinical Director, Center for Respiratory Research and Rehabilitation

University of Florida

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**EDUCATION**

***Post-Doctoral Fellowship in Neuroscience***

NIDCD F32 Ruth Kirschstein National Service Award Individual Training Fellowship

Department of Neuroscience, McKnight Brain Institute, University of Florida

2008-2010

***Clinical Fellowship***

Shands Hospital at the University of Florida

Fellowship conferred 2008

***Doctor of Philosophy in Neurorehabilitation Sciences***

Department of Communication Disorders, University of Florida

Degree conferred 2006

***Bachelor of Science (Speech & Hearing) (First Class Honors)***

Curtin University of Technology, Western Australia

Degree conferred 2000

**CERTIFICATIONS**

Certified Speech-Language Pathologist, Australia, 2001 - Present

Certificate of Clinical Competency Speech Language Pathology U.S.A, 2008 - Present

**LICENSURE**

Speech-Language Pathologist – Florida, 2008 - Present

**HONORS AND AWARDS**

2017 Deans Citation Award, College of Public Health & Health Professions

2014 Finalist, International Symposium on ALS/MND Research Award, Brussels, Belgium.

2014 Co-author, 1<sup>st</sup> Place Scientific Presentation, 22<sup>nd</sup> Dysphagia Research Society Meeting, Nashville, TN.

2013 1<sup>st</sup> Place Scientific Presentation, 3<sup>rd</sup> Cutting Edge Laryngology Meeting, London, U.K.

2013 American Board of Swallowing and Swallowing Disorders Research Award.

2013 2nd Place Scientific Platform Presentation, 21<sup>st</sup> Dysphagia Research Society Meeting, Seattle, WA.

2012 American Speech and Hearing Association Lessons for Success Alumni invited speaker.

2012 Faculty Poster Award, 20<sup>th</sup> Dysphagia Research Society Meeting, Toronto, Canada.

2012 2nd Place Poster Award, 20<sup>th</sup> Dysphagia Research Society, Toronto, Canada.

2012 Keynote Presenter, 5<sup>th</sup> Annual Norwegian Laryngology Conference, Hemsadal, Norway.

2011 Keynote Presenter, Sydney Dysphagia & Oesophagology Course, Sydney, Australia.

2010 Junior Keynote presenter NIDCD Symposium: Neuroplasticity in the mature brain, Washington, DC.

2010 1st Place Scientific Presentation, NIDCD Integrative Neural Systems Symposium, Madison, WI.

2010 American Speech and Hearing Association 8<sup>th</sup> Annual Lessons for Success Recipient.

2010 2nd Place Scientific Presentation, 18<sup>th</sup> Dysphagia Research Society Meeting, San Diego, CA.

2009 McKnight Brain Institute, Department of Neurology, Research Fellow of the Year.

2009 Movement Disorders Society New Investigator Travel Grant.

2009 Florida Society of Neurology Fellow Research Award.

- 2008 First Place Poster at 3<sup>rd</sup> Annual Neuromuscular Plasticity Symposium, University of Florida.
- 2005 Kenneth G. Bzoch Speech-Language-Hearing Research Award.
- 2004 Recipient of the A.S.H.A Graduate Student Travel Scholarship.
- 2003 International Academic Scholar of the Year Award, University of Florida.
- 2002 University of Florida Scholars Award for 4.0 GPA by Doctoral Student.
- 2001 American Speech-Language Hearing Association Division 13 New Investigator Grant.
- 2001 Best Scientific Paper by New Investigator, Dysphagia Research Society Meeting, Albuquerque, NM.
- 2001 Awarded Australian Post Graduate Ph.D. Scholarship (declined).
- 2000 Awarded Curtin Speech & Hearing Outstanding Research Thesis Award.
- 2000 Awarded First Class Honors for research thesis.
- 2000 Letter of Academic Commendation, Curtin University of Technology, Australia.
- 1999 Golden Key National Honor Society.
- 1999 Rotary Citizenship Award.
- 1999 President - Student Speech Pathology Association.

### **COURSES TAUGHT:**

- Dysphagia
- Introduction to Clinical Practice
- Medical Speech-Language Pathology
- Introduction to Graduate Research
- Doctoral Seminar in Upper Aerodigestive Tract Function
- Rehabilitation Science Doctoral Seminar
- Translational Rehabilitation Neuroscience

### **PROFESSIONAL SERVICE:**

- Graduate National Student Speech Language and Hearing Association University of Florida Chapter Faculty Advisor, 2015 - present
- Rehabilitation Sciences Doctoral Program Steering Committee, University of Florida, 2015-present
- Graduate National Student Speech Language and Hearing Association Faculty Advisor, 2015-present
- College of Public Health and Health Professions Research Council, 2015 - present
- Northeastern ALS (NEALS) Consortium Bulbar Committee, 2014-present
- Chief Medical Advisor, A Life Story Foundation 2014-present
- Chair, Dysphagia Research Society Awards and Scholarship Committee, 2014-present
- Scientific Abstract Committee, Northeastern ALS (NEALS) Consortium, 2014
- Northeastern ALS (NEALS) Consortium Ventilation Committee, 2014-present
- Co-Chair, Meet the Masters Program American Board of Swallowing & Swallowing Disorders, 2014
- American Speech and Hearing Society Student and Post-Doctoral Fellow Mentor, 2013
- Chair, Dysphagia Research Scholarship Committee, 2012-1013
- Chair, Dysphagia Research Society Bylaws Committee, 2012-present
- Selection Committee, Faculty position, Communication Science & Disorders, USF, 2013
- Board Member, Dysphagia Research Society, 2012 - 2015
- Program planning committee, Dysphagia Research Society, 2012
- Chair, Rules of Conduct Committee, Dysphagia Research Society, 2012 – present
- Scientific Abstract Committee, Dysphagia Research Society, 2011
- Educational Advisor for the Department of Defense 2011- present
- Ad Hoc Communications and Public Relations Committee, Dysphagia Research Society, 2012-present
- Faculty, Dysphagia Research Society 2010 – present
- Membership committee, Dysphagia Research Society 2011 – 2012
- Abstract review committee, Dysphagia Research Society 2011
- Selection Committee, Movement Disorders Fellowship Program, University of Florida

- Selection Committee, Faculty Position, Department of Neurology, University of Florida

## **RESEARCH SUPPORT:**

### **Current:**

#### **R01 - National Institute of Neurological Disorders and Stroke (1R01 NS100859-01)**

Principal Investigator

Delineating Physiologic Mechanisms of Swallowing impairment and Decline in ALS

4/1/2017 – 3/31/2022

#### **R01 - National Institute of Child Health Development (1R01 HD091658-0A1)**

Co-Investigator (PI: Hegland)

Mechanisms of airway protection dysfunction in Parkinson's disease.

9/1/2017 – 8/31/2022

#### **R01 - National Institute of Deafness and other Communication Disorders: (R01 DC011020)**

Co-Investigator (PI: Steele)

Physiological Flow of Liquids Used in Dysphagia Management.

3/1/2016 - 3/1/2022.

#### **R01 - National Institute of Neurological Disorders and Stroke: (R01 NS098819)**

Co-Investigator (PI: Ranum)

Molecular Characterization of ALS/FTD in a Novel C9ORF72 BAC Mouse Model.

7/28/2016 – 6/30/2022

#### **Amyotrophic Lateral Sclerosis Association Clinical Management Grant**

Principal Investigator

Impact of Respiratory Training in Amyotrophic Lateral Sclerosis.

4/15/2016 - 6/15/2018

#### **Amyotrophic Lateral Sclerosis Association Clinical Management Grant**

Co-Principal Investigator (Co-PI: David Walk)

A Pilot Study of Lung Volume Recruitment Therapy Combined with Expiratory Muscle Strength Training in Amyotrophic Lateral Sclerosis.

1/10/2017 - 30/9/2019

### **Past:**

#### **R03 - National Institute of Child Health Development: 1R21 HDO75327**

Principal Investigator (30% effort)

Effects of Strength Training on Bulbar Function in Persons with Amyotrophic Lateral Sclerosis.

7/1/2013-6/31/2016.

#### **R21 - National Institute of Deafness and other Communication Disorders: 1R03 DC012123**

Principal Investigator

Dissociating the Neural Substrates of Cranial & Limb Motor Impairment in an Animal Model of PD.

09/21/2011-08/31/2015.

#### **F32 - National Institute of Deafness and other Communication Disorders: F32 DC010569**

#### **Ruth L. Kirschstein National Research Service Award F32 Individual Post-Doctoral Fellowship**

Principal Investigator

Neural Substrates of Oral Motor Dysfunction in Parkinson's disease.

12/09-11/11.

**Veterans Affairs Office of Rural Health: N08-FY14Q4-S0-P01503**

Co-Investigator

Reducing Barriers to living at home for the Rural Veteran with Amyotrophic Lateral Sclerosis.

8/15/2014-8/15/2015.

**University of South Florida College of Medicine Interdisciplinary Seed Grant: IS415-3**

Principal Investigator

Impact of Lingual Resistance Exercise Training on Swallowing Function, Airway Protection and Oral Intake in Neurodegenerative Disease.

11/15/2014-12/15/2015.

**University of South Florida Research and Innovation Grant**

Principal Investigator

Impact of Exercise on Disease Progression and Survival in a Transgenic Mouse Model of ALS.

7/1/14-6/31/16.

**Joy McCann Center for Swallowing Disorders Research Foundation**

Principal Investigator

Impact of EMST on Bulbar Function in Amyotrophic Lateral Sclerosis: A Pilot Study

07/01/11-07/31/13.

**University of South Florida New Investigator Grant**

Principal Investigator

5/1/11-4/29/12.

**College of Behavioral & Community Sciences USF Summer Research Career Enhancement Grant**

Principal Investigator

5/16/11-7/30/11.

**Clinical and Translational Science Institute Junior Faculty Grant**

Principal Investigator

11/09-12/10.

**McKnight Brain Institute Fellow Research Grant**

Principal Investigator

Awarded 1/10/2010.

**Ruth L. Kirschstein National Research Service Award T32 Institutional Training Fellowship**

National Institute of Deafness and other Communication Disorders

12/1/07-11/1/09.

**GRANT REVIEWING SERVICE:**

- National Institutes of Health, SBIR, 2014-present
- National Institute of Health, Loan Repayment Program, 2013-present
- American Speech and Hearing Foundation, 2013, 2014
- Sir Charles Gardiner Western Australia, Australia, 2012

**JOURNAL REVIEWING SERVICE:**

Behavioral Brain Research (2013-present), Dysphagia (2011 – present), Journal of Visualized Experiments (JOVE) (2014 – present), Journal of Speech Language and Hearing Research (2011 – present), American Journal of Speech Language Pathology (2013 – present), Movement Disorders (2010 – present), Neuroscience (2010 – present), Parkinsonism and Related Disorders (2010 – present), The Journal of Neuroscience (2011 – present).

**PEER REVIEWED PUBLICATIONS** (mentored students underlined)

**Manuscripts:**

1. Tabor, LC., **Plowman EK.**, Romero-Clark, C., & Youssof, S. (2017). Oropharyngeal dysphagia in oculopharyngeal muscular dystrophy. *Neurogastroenterology and Motility. E Pub Ahead of Print.*
2. Hutcheson KA, Barrow MP, **Plowman EK**, Lai SY, Fuller CD, Barringer DA, Eapen G, Wang Y, Hubbard R, Jimenez SK, Little LG, Lewin JS. (2017). Expiratory muscle strength training for radiation-associated aspiration after head and neck cancer: A case series. *Laryngoscope.* 2017 Aug 22. doi: 10.1002/lary.26845.
3. **Plowman, E. K.**, Tabor, L. C., Wymer, J., & Pattee, G. (2017). The evaluation of bulbar dysfunction in amyotrophic lateral sclerosis: survey of clinical practice patterns in the United States. *Amyotroph Lateral Scler Frontotemporal Degener*, 18(5-6), 351-357. doi:10.1080/21678421.2017.1313868
4. Youssof, S., Romero-Clark, C., Warner, T., & **Plowman, E.** (2017). Dysphagia-related quality of life in oculopharyngeal muscular dystrophy: Psychometric properties of the SWAL-QOL instrument. *Muscle Nerve*, 56(1), 28-35. doi:10.1002/mus.25441
5. Tabor, L. C., Rosado, K. M., Robison, R., Hegland, K., Humbert, I. A., & **Plowman, E. K.** (2016). Respiratory training in an individual with amyotrophic lateral sclerosis. *Ann Clin Transl Neurol*, 3(10), 819-823. doi:10.1002/acn3.342
6. Watts, S. A., Tabor, L., & **Plowman, E. K.** (2016). To Cough or Not to Cough? Examining the Potential Utility of Cough Testing in the Clinical Evaluation of Swallowing. *Curr Phys Med Rehabil Rep*, 4(4), 262-276. doi:10.1007/s40141-016-0134-5
7. Arrese, L. C., Carrau, R., & **Plowman, E. K.** (2017). Relationship Between the Eating Assessment Tool-10 and Objective Clinical Ratings of Swallowing
8. wing Function in Individuals with Head and Neck Cancer. *Dysphagia*, 32(1), 83-89. doi:10.1007/s00455-016-9741-7
9. Tabor, L., Watts, S.A., Robison, R., Gaziano, J., **Plowman, E.K.** (2016). Defining Swallowing-Related Quality of Life Profiles in Amyotrophic Lateral Sclerosis. *Dysphagia*, 31(3): 376-382. doi: 10.1007/s00455-015-9686-2. PubMed PMID:26837611.
10. **Plowman, E.K.**, Watts, S.A., Robison, R., Tabor, L., Dion, C., Gaziano, J., Vu, T., Gooch, C., (2016). Voluntary Cough Airflow Differentiates Safe vs. Unsafe Swallowing in Amyotrophic Lateral Sclerosis. *Dysphagia*. 31(3):383-390. doi: 10.1007/s00455-015-9687-1. PubMed PMID:26803772.
11. **Plowman, E.K.**, Tabor, L., Robison, R., Gaziano, J., Dion, C., & Watts, S.A. (2016). Discriminant Ability of the Eating Assessment Tool for Identifying Aspiration in Amyotrophic Lateral Sclerosis. *Journal of Neurogastroenterology and Motility*. 28(1):85-90. doi: 10.1111/nmo.12700. PubMed PMID:26510823 PubMed Central PMC4688134.
12. **Plowman, E.K.**, Watts, S.A., Tabor, L., Robison, R., Gaziano, J., Domer, A.S., Richter, J., Vu, T., Gooch, C. (2016). Impact of Expiratory Strength Training in Individuals with Amyotrophic Lateral Sclerosis. *Muscle and Nerve*, 54(1): 48-53. doi: 10.1002/mus.24990. PubMed PMID:26599236.
13. **Plowman, E.K.** (2015). Is there a Role for Exercise in Amyotrophic Lateral Sclerosis? *Journal of Speech Language and Hearing Research*, 58(4):1151-66. doi: 10.1044/2015\_JSLHR-S-14-0270. PubMed PMID:26091205.
14. Sardesai, M.G., Patel, S.A., Halum, S., **Plowman, E.K.**, Merati, A.L. (2016). Response to Late Tracheotomy is Associated with Higher Morbidity and Mortality. *Laryngoscope*, 126(5):E208. doi: 10.1002/lary.25703. PMID: 26451962.
15. Patel, S.A., **Plowman, E.K.**, Halum, S., Merati, A.L., Sardesai, M.G. (2015). Late Tracheotomy is Associated with Higher Morbidity and Mortality In Critically Ill Patients Undergoing Mechanical Ventilation. *Laryngoscope*, 125(9). PMID: 26152892.
16. **Plowman, E.K.**, Bijangi-Vishehsaraei, K, Halum, S., Cates, D., Hanenberg, H, Domer, A.S, Nolta, JA, Belafsky, P.C. (2014). Autologous myoblasts attenuate atrophy and improve tongue force in a denervated tongue model: a pilot study. *Laryngoscope*. 124(2), E20-E26. PMID: 23929623.
17. **Plowman E.K.**, Maling, N., Thomas, N.J., Fowler, S.C., Kleim, J.A. (2014). Targeted motor rehabilitation dissociates corticobulbar versus corticospinal dysfunction in an animal model of Parkinson's disease. *Neural Rehabilitation and Neural Repair*. 28(1), 85-95. PMID: 23921422.

18. Hoy, M., Domer, A., **Plowman, E.K.**, Loch, R., Belafsky, P.C. (2013). Causes and diagnosis of dysphagia in a tertiary swallow center. *Annals of Otolaryngology, Rhinology & Laryngology*, 122(5), 335-338.
19. Belafsky, P.C, **Plowman, E.K.**, Mehdizadeh, O, Cates, D, Domer A., Yen K. (2013). The upper esophageal sphincter (UES) is not round: a pilot study evaluating a more physiologic approach to UES dilation. *Annals of Otolaryngology, Rhinology & Laryngology*, 122(4), 217-221.
20. **Plowman E.K.**, Maling, N., Rivera, B., Larson, K., Thomas, N.J., Fowler, S.C., Manfredsson, F.P., Shrivastav, R., Kleim, J.A. (2013). Differential sensitivity of cranial and limb motor function to nigrostriatal dopamine depletion. *Behavioral Brain Research*, 237,157-163.
21. Cates, D., **Plowman,E.K.**, Mehdizadeh, O., Yen, K., Domer, A., Gilden, M., and Belafsky, P.C. (2013). Geometric morphometric shape analysis in an ovine model confirms that the upper esophageal sphincter is not round. *Laryngoscope*, 123(3), 721-726.
22. **Plowman, E.K.**, Mehdizadeh O., Leder B., Martino R., Belafsky PC. (2013). A bibliometric review of published abstracts presented at the Dysphagia Research Society: 2001-2011. *Dysphagia*, 28(2), 123-130.
23. Halum, S., Ting, J., **Plowman, E.K.**, Belafsky, P.C., Postma, G., Pitman, M.J., Moscatello, A., Khosla, S., Maronian, N.C., Sinacori, J.T., Ekbom, D.C. & Merati, A. (2012). A Multi-Institutional Analysis of Tracheotomy Complications. *Laryngoscope*, 122(1), 38-45.
24. **Plowman, E.K.**, Domer, A., Belafsky P.C. (2011). Central, peripheral and comorbid affects of normal and disordered aging on deglutition. *Otorinolaringologia*, 61, 45-52.
25. **Plowman, E.K.**, Thomas, N.J., Kleim, J.A. (2011). Unilateral intrastratial dopamine depletion induces motor impairments and disrupts motor maps. *Journal of Parkinson's Disease*, 1(1), 93-100.
26. **Plowman, E.K.** and Kleim, J. A. (2011). Behavioral and neurophysiological correlates of striatal dopamine depletion: a rodent model of Parkinson's disease. *Journal of Communication Disorders*, 44(5), 549-56.
27. **Plowman, E.**, Hentz, B. and Ellis, C. (2011). Post-stroke aphasia prognosis: a review of patient-related and stroke-related factors. *Journal of Evaluation in Clinical Practice*, 18(3), 689-94.
28. **Plowman, E.K.** & Okun, M.S. (2011). Antiphospholipid syndrome and other lupus-related movement disorders. *Handbook of Clinical Neurology*, 100, 237-245.
29. **Plowman, E.K.** and Kleim, J.A. (2010). Motor cortex reorganization across the lifespan. *Journal of Communication Disorders*, 43(4), 286-294.
30. **Plowman-Prine E.K.**, Sapienza, C.M, Okun, M.S., Pollock, S.L, Jacobson, C., Wu, S., Rosenbek, J.C. (2009). The relationship between quality of life and swallowing in Parkinson's disease. *Movement Disorders*, 24(9), 1352-1358.
31. **Plowman-Prine, E.K.**, Okun, M.S., Sapienza, C.M., Shrivastav, R., Fernandez, H.H., Foote, K.D., Ellis, C., Rodriguez, A.D., Burkhead, L.M., & Rosenbek, J.C. (2009). Perceptual characteristics of Parkinsonism speech: A comparison of the pharmacological effects of levodopa across speech and non-speech motor systems. *Neurorehabilitation*, 24, 1-13.
32. Jones, H. N., Shrivastav, R, Wu, S. S., **Plowman-Prine, E. K.**, & Rosenbek, J. C. (2009). Intensity and fundamental frequency variability before and after two behavioral treatments for aprosodia. *Journal of Medical Speech-Language Pathology*, 17, 45-53.
33. **Plowman-Prine, E.K.**, Triggs, W.J., Malcolm, M., & Rosenbek, J.C. (2008). Reliability of transcranial magnetic stimulation for mapping swallowing musculature. *Clinical Neurophysiology*, 119(10), 2298-30.
34. Rosenbek, J.C. & **Plowman, E.K.** (2002). Update of the neuropathologies of speech and language: Aphasia, dysarthria, apraxia of speech. *Journal of Japanese Aphasiology*, 22, 9-16.

#### **Published Online Articles:**

- Hess, L. & **Plowman E.K.** (2015). Assistive Communication Devices for PALS, Part 2: High Tech, Low Teach and Everything in Between, Published online Feb 7, 2015. <http://www.alifestoryfoundation.org/pals-center/>
- Plowman, E.K.** (2014). Nutrition and Feeding Tube Placement for People with ALS: Best Practice in Clinical Decision Making. Dysphagia Café, Published online October 23, 2014. <http://www.dysphagiacafe.com/2014/10/23/nutrition-and-feeding-tube-placement-for-people-with-als-best-practice-in-clinical-decision-making/>
- Hess, L. & **Plowman E.K.** (2014). Assistive Communication Devices for PALS, Part 1: Importance of Early AAC Evaluation and Implementation, Published online October 17, 2014. <http://www.alifestoryfoundation.org/pals-center/assistive-communication-devices-for-pals-everything-you-need-to-know/>

### Podcast:

The Dynamic Duo of Dysphagia Research. Conversations in Speech Pathology:

[www.conversationsinspeech.com/www.conversationsinspeech.com/csp-026-the-dynamic-duo-of-dysphagia-research/](http://www.conversationsinspeech.com/www.conversationsinspeech.com/csp-026-the-dynamic-duo-of-dysphagia-research/),  
December 21, 2015.

### Book Chapters:

Tabor L.C., Plowman E.K. (2017) Dysphagia in Amyotrophic Lateral Sclerosis. In: . Medical Radiology. Springer, Berlin, Heidelberg. doi: [https://doi.org/10.1007/174\\_2017\\_1](https://doi.org/10.1007/174_2017_1)

Tabor L., Plowman E (2016) Dysphagia in Neurodegenerative Disease. In: Dysphagia: Diagnosis and Treatment in Children and Adults. Thieme Medical Publishers, 333 Seventh Avenue, New York, NY.

Tabor LC, Plowman EK, Martin K (2017) Adjusting to Swallowing Changes and Nutritional Management in ALS. Living with ALS Resource Guides, vol 8, 2017 edn. ALSA.

**Plowman-Prine, E.K.,** Jones, H.N & Rosenbek, J.C. (2009). The Role of the Speech-Language Pathologist in Dystonia. In Okun, M.S. (ed.) Interdisciplinary care of the dystonia patient.

### Peer Reviewed Published Abstracts:

**Plowman. E.K.,** Tabor, L.C., Robison, R. & Wymer, J. (2016). Delineating Mechanisms of Dysphagia in ALS. *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, 17(1): 33. DOI: 10.1080/21678421.2016.1231971/0046.

**Plowman, E.K.,** Tabor, L., Robison, R., Watts, S., Gaziano, J., Rosado, M., Richter, J., Vu, T., Gooch, C. Discriminant Ability of the Eating Assessment Tool for Predicting Aspiration. (2015). *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, 16(1):43-44. DOI: 10.3109/21678421.2015.1089039/0064.

**Plowman, E.K.,** Tabor, L., Rosado, M., Robison, R., Gaziano, J., Richter, J., Vu, T., Gooch, C. A Randomized Sham Control Trial of EMST on Bulbar Function. (2015). *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, 16(1):43-44. DOI: 10.3109/21678421.2015.1089039/0065.

**Plowman, E.K.,** Watts, S., Tabor, L., Turner, K., Rosado, M., Domer, A., Gooch, C., Richter, J., Vu, T. Utility of Self-Report scales in the evaluation of dysphagia in individuals with ALS. (2014). *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*, 15(1):48-49.

Watts, S, Domer, A, Gaziano, J, Pitts, T, Estores, D, Richter, J, Donoghue, K, Gooch, C, Vu, T. and Plowman, E. K. (2013). The Relationship Between Voluntary Cough Production and Swallow Safety in Individuals with Amyotrophic Lateral Sclerosis. *Dysphagia*, 28(4).

**Plowman, E.K.,** Watts, S, Domer, A, Gaziano, J, Donoghue, K, Estores, D, Richter, J, Gooch, C, Vu, T. 2013. The Effect of Exercise on Bulbar Function in Individuals with Amyotrophic Lateral Sclerosis. *Dysphagia*, 28(4).

**Plowman, E. K.** Domer, A., Lenoard, R., Moller, A., Kelchner, L., German, R. (2012). The Development of a Porcine Model of Oral Motor Dysfunction in Parkinson's Disease. *Dysphagia*,

**Plowman, E.K.** Thomas, N., Maling, N., Manfredsson, F., Larson, K. & Kleim, J.A. (2012). Targeted motor rehabilitation dissociates corticobulbar versus corticospinal function in an animal model of Parkinson's disease. *Dysphagia*,

**Plowman, E.K.,** Mehdizadeh, O., Leder, S. Belafsky, P. (2012). Trends in Dysphagia Research: A Decade in Review. *Dysphagia*,

Cates, D., **Plowman, E.K.,** Mehdizadeh, O., Yen, K., Domer, A., Gilden, M. Belafsky, P. (2012). The Upper Esophageal Sphincter is Not Round. *Dysphagia*,

**Plowman, E.K.,** Thomas, N., Mailing, N., Manfredsson, F., Larson, K., Kleim, J.A. (2011). Targeted Motor Rehabilitation Dissociates Corticobulbar Versus Corticospinal Dysfunction In A Rodent Model Of Parkinson's Disease. *Dysphagia*, 28(2).

**Plowman, E.K** and Kleim, J. A. (2010). Dissociating the Neural Substrates of Oral and Limb Motor Impairments in Parkinson's Disease. *Dysphagia*, 25, 354-355.

**Plowman-Prine, E.K.,** Thomas, N.J., Fowler, S.C., Sapienza, C.M., Kleim, J.A. (2009). Neural Correlates of Corticobulbar and Corticospinal dysfunction in Parkinson's Disease. *Movement Disorders*, 24, S43.

**Plowman-Prine, E.K.,** Okun, M.S., Sapienza, C.M., Pollock, S.L., Jacobson, C., Rosenbek, J.C. (2009). Impairment in Communication Effectiveness in Parkinson's Disease. *Movement Disorders*, 24, S309.

- Plowman-Prine, E.K.,** Okun, M.S., Sapienza, C.M., Pollock, S.L., Jacobson, C., Troche, M.S., Wu, S.S., Rosenbek, J.C. (2009). The Relationship between Quality of Life and Swallowing in Parkinson's Disease: A Preliminary Investigation. *Movement Disorders*, 24, S373-S374.
- Plowman-Prine, E.K.,** Thomas, N.J., Fowler, S.C., Sapienza, C.M., Kleim, J.A. (2009). Animal Model of Corticobulbar and Corticospinal dysfunction in Parkinson's Disease. *Neurology*, 72(11), A407.
- Plowman-Prine, E. K.,** Triggs, W.J., Malcolm, M., & Rosenbek, J. C. (2008). Reliability of transcranial magnetic stimulation for mapping swallowing musculature. American Speech and Hearing Association Annual Convention Conference Proceedings.
- Plowman-Prine E.K,** Sapienza, C.M, Okun, M.S., Pollock, S.L, Rosenbek, J.C. (2008). Quality of Life and Communication Effectiveness in Parkinson's Disease. American Speech and Hearing Association Annual Convention Conference Proceedings.

**Published Patient Resource Guides:**

- Hess, L.K and **Plowman, E.K.\*** (2014). Exploring Assistive Communication Devices in PALS. Educational Patient Packet.
- Hess, L.K. and **Plowman, E.K.\*** (2014). Safe Swallowing for PALS: What I Need to Know and Why it Matters.
- Hess, L.K. and **Plowman, E.K.\*** (2014). Assistive Communication Devices: How Do They Compare and Which One is the Right Fit?
- Benson-Goldberg, S. and **Plowman, E.K.\*** (2014). Voice Banking and Message Banking for PALS: What You Need to Know.

**PRESENTATIONS:**

**Invited Speeches and Keynote Presentations**

***International:***

1. **Plowman, E. K.** Harnessing Principles of Plasticity in Speech and Swallowing Rehabilitation. Speech Pathology Australia Keynote Address. Sydney, Australia. May 29, 2017.
2. **Plowman, E. K.** Seminar: Advanced Rehabilitation for Dysphagia. Speech Pathology Australia Annual Convention. Sydney, Australia. May 29, 2017.
3. **Plowman, E. K.** Critical Thinking in Dysphagia Management. Speech Pathology Australia Annual Convention. Sydney, Australia. May 29, 2017.
4. **Plowman, E. K.** and Clave, P. Co-Chair, Rehabilitation in Neurogenic Dysphagia. 6<sup>th</sup> Congress of European Society of Swallowing Disorders. Milan, Italy. September 15, 2016.
5. **Plowman, E. K.** Workshop in Respiratory Strength Training. 6<sup>th</sup> Congress of European Society of Swallowing Disorders. Milan, Italy. September 12, 2016.
6. **Plowman, E. K.** Treatments to Improve Impaired Airway Protection Mechanisms. 6<sup>th</sup> Congress of European Society of Swallowing Disorders. Milan, Italy. September 12, 2016.
7. **Plowman, E. K.** Role of Gastrostomy Tubes in Amyotrophic Lateral Sclerosis. Milan, Italy. September 13, 2016.
8. **Plowman, E.K.** (2014). Application of Lingual and Respiratory Strength Training in Neurogenic Patient Populations. University of Toronto, Canada.
9. **Plowman, E.K.** (2014). Updates in Treatment Strategies for Bulbar Dysfunction in Neurodegenerative Patient Populations. University of Milan, Milan, Italy.
10. **Plowman, E.K.** (2014). Novel Treatment Strategies for Dysphagia and Respiratory Impairment in Individuals with Amyotrophic Lateral Sclerosis Neuromuscular: Research Updates. Omnicomprehensive Center (NEMO), Milan, Italy.
11. **Plowman, E.K.** (2014). Workshop in Expiratory Muscle Strength Training, Fondazione Salvatore Maugeri Scientific Institute of Rehabilitation, Pavia, Italy.
12. **Plowman, E.K.** (2013). Updates in Dysphagia Rehabilitation: What does the evidence tell us? Sir Charles Gardiner Hospital and University of Western Australia, Perth, Western Australia.
13. **Plowman E.K.** (2013). Bulbar Dysfunction in ALS/MND: To Treat or Manage? Sir Charles Gardiner Hospital and University of Western Australia, Perth, Western Australia.
14. **Plowman, E.K.** (2013). Treatment Strategies for Individuals with Amyotrophic Lateral Sclerosis. 2<sup>nd</sup> Annual



- Turkish Dysphagia Society, Ankara, Turkey (Keynote Speaker).
15. **Plowman, E.K.** (2013). Applying Principles of Plasticity to Dysphagia Rehabilitation. 2<sup>nd</sup> Annual Turkish Dysphagia Society, Ankara, Turkey (Keynote speaker).
  16. **Plowman, E.K.** (2013). Translational Models of Oral Pharyngeal Dysphagia. 11<sup>th</sup> World Congress of Esophageal Disorders, Lake Como, Italy.
  17. **Plowman, E.K.** 2012. Behavioral Treatment Strategies for Dysphagia. Norwegian Laryngology Association Convention, Skarsnuten, Norway (Keynote speaker).
  18. **Plowman, E.K.** 2012. Principles of Neural Plasticity and Rehabilitation of Swallowing and Voice. Norwegian Laryngology Association Convention, Skarsnuten, Norway (Keynote speaker).
  19. **Plowman, E.K.** 2012. Expiratory Muscle Strength Training. Norwegian Laryngology Association Convention, Skarsnuten, Norway (keynote speaker).
  20. **Plowman, E.K.** 2012. Applications of Translational Animal Models to the Dysphagia Research. Cutting Edge Laryngology. Kuala Lumpur, Malaysia.
  21. **Plowman, E.K.** 2012. Principles of Neural Plasticity and Rehabilitation of Swallowing and Voice. Cutting Edge Laryngology. Kuala Lumpur, Malaysia.
  22. **Plowman, E.K.** 2012. Expiratory Muscle Strength Training. Cutting Edge Laryngology. Kuala Lumpur, Malaysia.
  23. **Plowman, E.K.** 2011. Neural Plasticity: Applications to Rehabilitation. Advanced Oesphagology Course, Sydney, Australia (keynote speaker).
  24. **Plowman, E.K.** 2011. Utility of expiratory muscle strength training in rehabilitation of dysphagia. Advanced Oesphagology Course, Sydney, Australia (keynote speaker).
  25. **Plowman, E.K.** 2011. Translational Models of oral motor dysfunction and rehabilitation. Advanced Oesphagology Course, Sydney, Australia (keynote speaker).
  26. **Plowman, E.K.** 2011. Translational Models to study oral motor dysfunction in Parkinson's disease. West Australian Dysphagia Interest Group, Perth, Western Australia.

#### National:

27. **Plowman, E.K.** Updates in the Assessment and Management of Bulbar Dysfunction in ALS. Experimental Biology, Chicago, IL, April 26, 2017.
28. **Plowman, E.K.** Co-Chairing American Academy of Neurology Satellite Symposium for Bulbar Dysfunction in ALS. Boston, MA, April 27-28, 2017.
29. **Plowman, E.K.** & Humbert, I.A. Swallowing Think Tank, December 1-3, 2016.
30. **Plowman, E.K.** Northeastern Consortium (NEALS) Bulbar Committee Yearly Review. NEALS Consortium Annual Meeting, Clearwater, FL. October 7, 2016.
31. **Plowman, E.K.** Updates in the Assessment and Management of Bulbar Dysfunction in ALS. Department of Neurology Grand Rounds, University of Minnesota, Minneapolis, Minnesota, July 15, 2016.
32. Burkard, R. and **Plowman, E.K.** Collaborations in Research. American Speech and Hearing Association Pathways Conference, Rockville, Maryland. June 16, 2016.
33. **Plowman, E.K.** Harnessing Principles of Plasticity to Motor Speech Rehabilitation. Motor Speech Conference, Newport Beach, California. March 5, 2016. (\*Invited Keynote Speaker)
34. Rogers, M., **Plowman, E.K.**, Wambaugh, J., Ballard, K. Shekim, L. Grant Writing 101. Motor Speech Conference, Newport Beach, California. March 5, 2016.
35. **Plowman, E.K.** Assessment and Management of Bulbar Dysfunction in ALS. M.D. Anderson, Houston, Texas. August 13, 2015.
36. **Plowman, E.K.** 2014. Chair and Presenter, Neural mechanisms of feeding and swallowing, Society For Neuroscience Satellite Symposia Meeting, November 14, Washington, DC.
37. **Plowman, E.K.** 2014. Co-Chair and Presenter, Meet the Masters - Advancing Video Fluoroscopic Swallowing Assessment Across the Lifespan, November 19, Orlando, FL.
38. **Plowman, E.K.** 2014. Treatment Strategies for Cough, Swallow, Speech and Respiration in Neurodegenerative Disease, September 11, The University of Wisconsin, Madison.
39. **Plowman, E.K.** 2014. Autologous muscle derived stem cell therapy for the injured tongue. Invited Grand Rounds Presentation, Department of Otolaryngology, The Ohio State University, Columbus, OH.
40. **Plowman, E.K.** 2014. Dysphagia Workshop for Speech-Language Pathologists. The Ohio State University,

Columbus, OH.

41. **Plowman, E.K.** 2014. Updates in Treatment Strategies for Bulbar Dysfunction in Amyotrophic Lateral Sclerosis, 22<sup>nd</sup> Annual Dysphagia Research Society, Nashville, Tennessee. \*Invited Panelist and Presentation on Neurodegenerative Panel.
42. **Plowman, E.K.** et al. Effects of Targeted Strength Training in a Unilateral vs. Bilateral 6-Hydroxydopamine Model of Parkinson's disease. Society for Neuroscience, San Diego, California November 2013.
43. **Plowman, E.K.** et al. Dissociating Motor Impairments and Motor Map Dysfunction in Two Different Rodent Models of Parkinson's Disease. Society for Neuroscience, San Diego, November 2013.
44. **Plowman, E. K.** Obtaining your first academic position: Advice for Doctoral Students and Post-Docs. American Speech and Hearing Association Annual Convention, Chicago, Illinois, November 2013.
45. **Plowman, E.K.** 2013. Application of Autologous Stem Cell Therapy to the Tongue. 21<sup>st</sup> Dysphagia Research Society Annual Meeting. Seattle, WA. \*Invited panelist and presentation on neurodegenerative panel.
46. **Plowman, E.K.** 2012. Lessons for Success: Lessons Learned. American Speech and Hearing Association, Washington DC. \*Invited Alumni Speaker
47. **Plowman, E.K.** 2012. Expiratory Muscle Strength Training: Time to Pump you Up. Seventh Annual Advances in Voice and Dysphagia Conference, Las Vegas, NV.
48. **Plowman, E.K.** 2012. The Lingual Epiphany. Seventh Annual Advances in Voice and Dysphagia Conference, Las Vegas, NV.
49. **Plowman, E. K.** 2010. Junior Key Note Address, Neuroplasticity in the mature brain, National Institute of Deafness and other Communication Disorders (NIIDCD) Research Symposium at the American Speech and Hearing Association Annual Convention, Philadelphia, PA.
50. **Plowman, E.K.** 2010. Dissociating the effects of cranial motor and limb motor dysfunction in Parkinson's Disease. Department of Physical and Rehabilitative Medicine, John Hopkins University, Maryland, BW.

#### Regional:

51. **Plowman, E.K.** Management of Speech and Swallowing Dysfunction in ALS. Center for NeuroGenetics Annual Retreat. Amelia Island, Florida, December 13, 2016.
52. **Plowman, E.K.** Updates in the Assessment and Management of Bulbar Dysfunction in ALS. Department of Neurology Grand Rounds, University of Florida – Jacksonville, Jacksonville, Florida, July 27, 2016.
53. **Plowman, E.K.** Updates in Dysphagia Rehabilitation. Jacksonville University, Jacksonville, Florida. July 14, 2015.
54. **Plowman, E.K.** Treatment Updates in ALS: A Changing Historical Perspective. Invited Speaker at the Rehabilitation Science Seminar Series, Department of Physical Therapy, University of Florida, October 8, 2014, Gainesville, FL.

#### Local:

55. **Plowman, E.K.** Management of Speech and Swallowing Dysfunction in ALS. Center for Respiratory Rehabilitation and Research Annual Meeting. Gainesville, Florida, January 10, 2017.
56. **Plowman, E.K.** Management of Speech and Swallowing Dysfunction in ALS. Center for NeuroGenetics 1<sup>st</sup> Annual Community Focus Symposium. Gainesville, Florida, July 22, 2016.
57. **Plowman, E.K.** How to give a Scientific Research Presentation. College of Public Health and Health Professions Annual Research Day, University of Florida, Gainesville, Florida. April 13, 2016.
58. **Plowman, E.K.** Extending Bulbar and Respiratory Function in ALS. Center for NeuroGenetics Seminar Series, University of Florida, Gainesville, Florida. February 15, 2016.
59. **Plowman, E.K.** Mechanisms of Bulbar Dysfunction in ALS. University of Florida Neuroscience Neuro Noons Seminar, Gainesville, Florida. July 13, 2015.
60. **Plowman, E.K.** 2014. Restorative Treatments to Improve Swallow Physiology and Function. Veterans Affairs Hospital - Speech Language Pathology Department, July 9, Tampa, FL.
61. **Plowman, E.K.** 2014. Updates in Treatment Strategies for Bulbar Dysfunction in Neurodegenerative Patient Populations. Spinal Cord Injury Grand Rounds Veterans Affairs Hospital, May 6, Tampa, FL.
62. **Plowman, E.K.** 2014. Use of Patient Self-Report Scales in the Evaluation of Dysphagia. Internal Medicine and Gastroenterology Grand Rounds, University of South Florida, May 8, Tampa, FL.

63. **Plowman, E.K.** 2014. Research Updates for Evaluation and Treatment of Cough and Swallowing Dysfunction in ALS. Neurology Department Grand Rounds, Tampa General Hospital - University of South Florida, May 9, Tampa, FL.
64. **Plowman, E.K.** 2013. Translational models of oral motor dysfunction in Neurodegenerative Disease, Drug Discovery Colloquium, Department of Chemistry, November 19, University of South Florida, Tampa, FL.
65. **Plowman, E.K.** 2013. Working as A Research Speech-Language Pathologist. National Student Speech Hearing and Language Association (NSSHLA), November 6, University of South Florida, Tampa, FL.
66. **Plowman, E.K.** 2013. Translational Models of Oral Motor Dysfunction. Center for Aging and Brain Repair, Department of Neurosurgery, University of South Florida, January 14, Tampa, FL.
67. **Plowman, E.K.** 2011. Corticobulbar Dysfunction in Parkinson's Disease, Neurology Grand Rounds, University of South Florida, September 23, Tampa, FL.
68. **Plowman, E.K.** 2011. Current Therapeutics in the Treatment of Parkinson's Disease. March 21, Ybor City Rotary Club, Ybor, FL.
69. **Plowman, E.K.** 2011. Neuromotor Speech and Swallowing Dysfunction and Restoration. Global Center for Hearing and Research, University of South Florida, February 23, Tampa, FL.
70. **Plowman, E.K.** 2010. Animal models of oral motor dysfunction. Department of molecular biology and physiology, College of Medicine, University of South Florida, November 10, Tampa, FL.
71. **Plowman, E.K.** 2010. Oral Motor Dysfunction and Restoration in Parkinson's Disease. Department of Psychology Brown Bag Seminar Series, University of South Florida, September 23, Tampa, FL.

### **Referred Scientific Papers Presented at Professional Conventions**

#### **International:**

1. **Plowman, E.K.** Delineating mechanisms of dysphagia in ALS. International Symposium on ALS/MND, Dublin, Ireland. December 8, 2016.
2. **Plowman, E.K.** Case study of an individual with C9orf72 ALS. International Symposium on ALS/MND, Dublin, Ireland. December 9, 2016.
3. Tabor, L., Robison, R., Wymer, J., Plowman, E.K. Physiologic Mechanisms of Aspiration in Amyotrophic Lateral Sclerosis. 6<sup>th</sup> Congress of the European Society of Swallowing Disorders, Milan, Italy. October 7, 2016.
4. Waito, A., Tabor, L., Steele, C., Plowman, E.K. Reduced Pharyngeal Constriction is Associated with Post-Swallow Residue in Amyotrophic Lateral Sclerosis. 6<sup>th</sup> Congress of the European Society of Swallowing Disorders, Milan, Italy. October 7, 2016.
5. **Plowman, E.K.** Updates on evaluation and treatment of airway safety in ALS. International Alliance of ALS/MND Allied Professionals Forum, Orlando, FL, December 10, 2015.
6. **Plowman, E.K., Tabor, L., Robison, R., Gaziano, J., Dion, C., & Watts, S.A.** Randomized Sham Control Trial Of Expiratory Muscle Strength Training On Bulbar Function. 26th International Symposium on ALS/MND, Orlando, Florida. December 12, 2015.
7. **Plowman, E.K., Tabor, L., Robison, R., Gaziano, J., Dion, C., & Watts, S.A.** Voluntary Cough Airflow Predicts Penetration/Aspiration Status In Amyotrophic Lateral Sclerosis. 26th International Symposium on ALS/MND, Orlando, Florida. December 13, 2015.
8. **Plowman, E.K., Watts, S.A., Robison, R., Tabor, L., Dion, C., Gaziano, J., Vu, T., Gooch, C.** Voluntary Cough Airflow Differentiates Safe vs. Unsafe Swallowing in Amyotrophic Lateral Sclerosis. 5<sup>th</sup> Congress of the European Society for Swallowing Disorders, Barcelona, Spain, October 2, 2015.
9. **Plowman, E.K., Tabor, L., Robison, R., Gaziano, J., Dion, C., & Watts, S.A.** Discriminant Ability of the Eating Assessment Tool for Identifying Aspiration in Amyotrophic Lateral Sclerosis. 5th Congress of the European Society for Swallowing Disorders, Barcelona, Spain, October 3, 2015.
10. **Plowman E.K., Tabor, L.S., Domer, A., Watts, S., Rosado, K.M., Gaziano, J., Turner, K., Richter, J., Gooch, C., Vu, T.** Utility Of Self-report Patient Scales In The Evaluation Of Dysphagia In Individuals With ALS. 25th International Symposium on ALS/MND. Brussels, Belgium, December 7, 2014.
11. **Plowman E.K., Tabor, L.S., Rosado, K.M., Gaziano, J., Turner, K., Domer, A., Watts, S., Richter, J., Gooch, C., Vu, T.** Impact Of Expiratory Muscle Strength Training On Bulbar Function In Amyotrophic Lateral Sclerosis: Updates From A Randomized Sham-controlled Clinical Trial. 25th International Symposium on ALS/MND. Brussels, Belgium, December 6, 2014.

12. Rosado, K.M., Tabor, L.S., Gaziano, J., Turner, K., Domer, A., Watts, S., Richter, J., Gooch, C., Vu, T. **Plowman E.K.\*** Long-term Impact Of Expiratory Muscle Strength Training On Respiratory Function And Disease Progression In Two Patients With Amyotrophic Lateral Sclerosis: A Case Series. 25th International Symposium on ALS/MND. Brussels, Belgium, December 6, 2014.
13. **Plowman E.K.**, Watts, S., Domer, A., Tabor, L.S., Gaziano, J., Richter, J., Gooch, C., Vu, T. The Relationship Between Voluntary Cough Production And Swallow Safety In Individuals With Amyotrophic Lateral Sclerosis. 25th International Symposium on ALS/MND. Brussels, Belgium, December 6, 2014. *\*(Finalist New Investigator Research Award)*.
14. Sterling, L. **Plowman, E.K.**, Appel, S. Percutaneous Gastrostomy Tube Placement Increases Survival In Amyotrophic Lateral Sclerosis: Two Decades In Review. 25th International Symposium on ALS/MND. Brussels, Belgium, December 6, 2014.
15. **Plowman, E.K.** and Tabor, L.S. Role of the Speech-Language Therapist in the Multidisciplinary ALS Clinic: Insights learned and shared. Motor Neuron Disease Allied Health Professionals Forum, Brussels, Belgium, December 4, 2014.
16. **Plowman, E.K.**, Domer, A., Watts, S., Gaziano, J., Donoghue, K., Estores, D., Richter, J., Gooch, C., Vu, T. The Effect of Exercise on Bulbar Function in Individuals with Amyotrophic Lateral Sclerosis. Cutting Edge Laryngology. London, UK. June 6, 2013. *\*(Won Best Platform Scientific Presentation)*.
17. Domer, A., Adams, B., **Plowman, E.K.**, Kuhn, M., Belafsky, P. *Aspirated Thickened Water Results in Quantitative Lung Injury in a Lagomorph Model.* Cutting Edge Laryngology. London, UK. June 6, 2013.
18. **Plowman, E.K.**, Watts, S., Domer, A., Gaziano, J., Estores, D., Richter, J., Donoghue, K., Gooch, C., Vu, T. Relationship between patient-rated indices of swallowing function and objective measures of swallowing in patients with Amyotrophic Lateral Sclerosis. European Society for Swallowing Disorders, Malmo, Sweden. September 2013.
19. **Plowman, E.K.**, Watts, S., Domer, A., Gaziano, J., Pitts, T., Estores, D., Richter, J., Donoghue, K., Gooch, C., Vu, T. Relationship between respiration, swallow and cough in individuals with Amyotrophic Lateral Sclerosis. International Society of Respiratory Physiology, Brussels, Belgium. September 27, 2013.
20. Miller, S.N., **Plowman, E.K.\*** Psychological comorbidities in the female COPD patient: Implications for Practice. International Society of Respiratory Physiology. Brussels, Belgium. September 29, 2013.
21. **Plowman, E.K.** Targeted Motor Rehabilitation Dissociates Corticobulbar Versus Corticospinal Dysfunction In A Rodent Model Of Parkinson's Disease. First Annual Congress of the European Society for Swallowing Disorders, Leiden, Holland. September 9, 2011.
22. **Plowman, E. K.** Domer, A., Lenoard, R., Moller, A., Kelchner, L., German, R. The Development of a Porcine Model of Oral Motor Dysfunction in Parkinson's Disease. Twentieth Dysphagia Research Society Annual Meeting, Toronto, Canada. March 8, 2012.
23. **Plowman, E.K.** Thomas, N., Maling, N., Manfredsson, F., Larson, K. & Kleim, J.A. Targeted motor rehabilitation dissociates corticobulbar versus corticospinal function in an animal model of Parkinson's disease. Twentieth Dysphagia Research Society Annual Meeting, Toronto, Canada. March 10, 2012. *\*(Awarded Best Faculty Presentation)*.
24. **Plowman, E.K.**, Mehdizadeh, O., Leder, S., Belafsky, P. Trends in Dysphagia Research: A Decade in Review. Twentieth Dysphagia Research Society Annual Meeting, Toronto, Canada. March 9, 2012.
25. Cates, D., **Plowman, E.K.**, Mehdizadeh, O., Yen, K., Domer, A., Gilden, M., Belafsky, P. The Upper Esophageal Sphincter is Not Round. Twentieth Dysphagia Research Society Annual Meeting, Toronto, Canada. March 8, 2012.

#### **National:**

26. Perry, B., **Plowman, E.K.**, Green, J. Early changes in lingual movement during the swallow in persons with Amyotrophic Lateral Sclerosis. Dysphagia Research Society Annual Meeting, Oregon. March 3, 2017.
27. Robison, R., Tabor, L., Wymer, J., **Plowman, E.K.** Impact of Respiratory Training in an Individual with C9orf72 Amyotrophic Lateral Sclerosis. NEALS Consortium Annual Meeting, Clearwater, FL. October 7, 2016.
28. Tabor, L., Robison, R., Wymer, J., **Plowman, E.K.** Physiologic Mechanisms of Aspiration in Amyotrophic Lateral Sclerosis. NEALS Consortium Annual Meeting, Clearwater, FL. October 7, 2016.
29. Arese, L., Carrau, R., **Plowman, E.K.** Clinical Utility of the Eating Assessment Tool-10 in Head and Neck Cancer. Dysphagia Research Society Annual Meeting, Tucson, Arizona. February 26, 2016.

30. **Plowman, E.K.** and Humbert, I. Skill vs. Strength Training in the Management of Dysphagia: The Great Debate. American Speech and Hearing Association Annual Convention, Denver, Colorado. November 12, 2015.
31. **Plowman, E.K., Tabor, L.S., Watts, S.A.** Role of the Speech-Language Pathologist in the Multidisciplinary ALS Clinic: Insights Learned & Shared. American Speech and Hearing Association Annual Convention, Denver, Colorado. November 12, 2015.
32. **Robison, R., Tabor, L., Gaziano, J., Plowman, E.K.** Effects of Lingual Resistance Training in Persons With Amyotrophic Lateral Sclerosis. American Speech and Hearing Association Annual Convention, Denver, Colorado. November 13, 2015.
33. **Plowman, E.K., Tabor, L.S., Rosado, K.M., Turner, K., Gaziano, J., Robison, R., Richter, J., Gooch, C., Vu, T.** Impact of Expiratory Muscle Strength Training on Bulbar Function in Individuals with Amyotrophic Lateral Sclerosis: A Randomized Control Trial. 14<sup>th</sup> Annual North East ALS Consortium Meeting, Clearwater, Florida, November 5, 2015.
34. **Plowman, E.K.** Wheeler-Hegland, K., Troche, M.S. 2014. Dysphagia and Airway Protection: Best practices in evaluation and management of complex neurologic patients. American Speech and Hearing Association Annual Convention, Orlando, FL, November 20, 2014.
35. **Plowman, E.K., Cicciui, M.R., Focht, K.** Neurodegenerative Diseases & Dysphagia Rehabilitation: Applying Evidence to Clinical Practice. American Speech and Hearing Association Annual Convention, Orlando, FL, November 20, 2014.
36. **Plowman, E.K., Sapienza, C.M., Ruddy, B., Davenport, P.** Respiratory Muscle Strength Training. American Speech and Hearing Association Annual Convention, Orlando, FL, November 22, 2014.
37. **Watts S.A., Tabor, L., Domer A.S., Gaziano J., Plowman E.K.\*** Respiratory-Swallow Coordination in Individuals with Amyotrophic Lateral Sclerosis. 22<sup>nd</sup> Annual Dysphagia Research Society Meeting, Nashville, Tennessee, March 6, 2014.
38. **Plowman E.K., Domer A.S., Watts S.A., Gaziano J., Tabor, L.** Clinical Predictors of Aspiration in Individuals with Amyotrophic Lateral Sclerosis. 22<sup>nd</sup> Annual Dysphagia Research Society Meeting, Nashville, Tennessee, March 7, 2014.
39. **Plowman E.K., Watts S.A., Domer A.S., Gaziano J., Tabor, L.** Utility of Self-Report Patient Scales in the Assessment of Dysphagia. 22<sup>nd</sup> Annual Dysphagia Research Society Meeting, Nashville, Tennessee, March 8, 2014.
40. **Gaziano, J. Boyce, W., Estores, D. Barker, M., Plowman, E.K.\*** Factors Affecting Return to Oral Intake in Head and Neck Cancer Patients post Endoscopic Lumen Restoration. 22<sup>nd</sup> Annual Dysphagia Research Society Meeting, Nashville, Tennessee, March 8, 2014. (*\*Awarded American Board of Swallowing and Swallowing Disorders Research Award*).
41. **Domer, A., Kuhn, M., Plowman, E.K., Belafsky, P.** Impact of aspirated water and gel vs. starch based thickeners in a lagomorph model. 22<sup>nd</sup> Annual Dysphagia Research Society Meeting, Nashville, Tennessee, March 6, 2014. (*\*Won First Place Scientific Presentation*).
42. **Watts, S.A., Domer, A., Gaziano, J., Pitts, T., Estores, D., Richter, J., Donoghue, K., Gooch, C., Vu, T. and Plowman, E. K.\*** The Relationship Between Voluntary Cough Production and Swallow Safety in Individuals with Amyotrophic Lateral Sclerosis. American Speech and Hearing Association Annual Convention, Chicago, Illinois, November 15, 2013.
43. **Domer, A.S., Plowman, E. K., Belafsky, P.C.** Impact of aspirated liquids and thickeners in a lagomorph animal model of lung injury. American Speech and Hearing Association Annual Convention, Chicago, Illinois, November 14, 2013.
44. **Domer, A., Belafsky, P., Plowman, E.\*** Objective Videofluoroscopic Swallowing Findings In Individuals with Amyotrophic Lateral Sclerosis. Combined Otolaryngology Spring Meeting (COSM). Orlando, FL. April 2013.
45. **Patel, S., Plowman, E.K., Halum, S. Merati, A.** Complications post-tracheotomy procedure: A multi-institution database Review. American Bronchoesophagological Association (ABEA). Orlando, FL. April, 2013.
46. **Watts, S., Domer, A., Gaziano, J., Pitts, T., Estores, D., Richter, J., Donoghue, K., Gooch, C., Vu, T. and Plowman, E. K.\*** The Relationship Between Voluntary Cough Production and Swallow Safety in Individuals with Amyotrophic Lateral Sclerosis. 21<sup>st</sup> Dysphagia Research Society Annual Meeting. Seattle, WA. March 15, 2013.
47. **Plowman, E.K., Watts, S., Domer, A., Gaziano, J., Donoghue, K., Estores, D., Richter, J., Gooch, C., Vu, T.** The Effect of Exercise on Bulbar Function in Individuals with Amyotrophic Lateral Sclerosis. 21<sup>st</sup> Dysphagia Research Society Annual Meeting. Seattle, WA. March 16, 2013. (*\*Second Place Scientific Presentation*) also (*\*Awarded American*

*Board of Swallowing and Swallowing Disorders Research Award).*

48. **Domer, A, Plowman, E.K,** Belafsky, P. *The association between self-reported dysphonia and dysphagia.* Fall Voice Conference. New York, NY. October 2012.
49. Belafsky, P, **Plowman, E,** Mehdizadeh, O, Cates, D, **Domer, A,** Gilden, M. The upper esophageal sphincter is not round: A pilot study evaluating a more physiologic approach to UES dilation. Combined Otolaryngology Spring Meeting (COSM). San Diego, CA. April 2012.
50. **Plowman, E.K,** Ciucci, M.R. Sensorimotor dysfunction and recovery in Parkinson's Disease: A Translational Approach. American Speech and Hearing Association Annual convention, San Diego, CA, November 18, 2011.
51. **Plowman E.K.,** Thomas, N., Maling, N., Manfredsson, F., Larson, K. & Kleim, J.A. Targeted motor rehabilitation dissociates corticobulbar versus corticospinal function in an animal model of Parkinson's disease. Society for Neuroscience, November 15, 2011, Washington DC.
52. **Plowman, E.K.,** Thomas, N.J. & Kleim, J.A. Differential sensitivities of oral and limb motor function in an animal model of Parkinson's Disease. Society for Neuroscience, November 13, 2010, San Diego, CA.
53. **Plowman, E.K.** Dissociating the effects of cranial motor and limb motor dysfunction in Parkinson's Disease. NIDCD Symposium, July 15<sup>th</sup>, Wisconsin, Madison. *\*(Awarded First Place for Scientific Platform Presentation).*
54. **Plowman, E.K.** and Kleim, J.A. Dissociating the effects of cranial motor and limb motor dysfunction in Parkinson's Disease. Dysphagia Research Society 18<sup>th</sup> annual meeting, San Deigo, CA, 2010. *\*(Awarded 2<sup>nd</sup> Place scientific Platform presentation).*

**Regional:**

55. **Plowman, E.K,** **Tabor, L.S,** **Rosado, K.M.,** **Turner, K.,** **Gaziano, J,** **Robison, R.,** **Richter, J.,** **Gooch, C.,** **Vu, T.** Impact of Expiratory Muscle Strength Training on Bulbar Function in Individuals with Amyotrophic Lateral Sclerosis: Updates from a Randomized Control Trial. 13<sup>th</sup> Annual North East ALS Consortium Meeting, October 23, 2014, Clearwater, Florida.
56. **Tabor, L.S.,** **Rosado, K.M.,** **Turner, K.,** **Gaziano, J.,** **Richter, J.,** **Vu, T.,** **Plowman, E.K.** Maximum Expiratory Force generating abilities are associated with global disease progression and airway safety in Individuals with Amyotrophic Lateral Sclerosis. 13<sup>th</sup> Annual North East ALS Consortium Meeting, October 23, 2014, Clearwater, Florida.
57. **Watts, S.,** **Tabor, L.S.,** **Rosado, K.M.,** **Turner, K.,** **Gaziano, J.,** **Richter, J.,** **Vu, T.,** **Plowman, E.K.** Presences of huffing during voluntary cough is associated with penetration-aspiration in Individuals with Amyotrophic Lateral Sclerosis. 13<sup>th</sup> Annual North East ALS Consortium Meeting, October 23, 2014, Clearwater, Florida.
58. **Robison, R.,** **Watts, S.,** **Tabor, L.S.,** **Rosado, K.M.,** **Turner, K.,** **Gaziano, J.,** **Richter, J.,** **Vu, T.,** **Plowman, E.K.** Communication effectiveness profiles in Individuals with Amyotrophic Lateral Sclerosis. 13<sup>th</sup> Annual North East ALS Consortium Meeting, October 23, 2014, Clearwater, Florida.
59. **Plowman, E.K,** **Tabor, L.S.,** **Watts S.,** **Rosado, K.M.,** **Turner, K.,** **Gaziano, J,** **Robison, R.,** **Richter, J.,** **Gooch, C.,** **Vu, T.** Utility of patient self-report scales in dysphagia screening in Individuals with Amyotrophic Lateral Sclerosis: Updates from a Randomized Control Trial. 13<sup>th</sup> Annual North East ALS Consortium Meeting, October 23, 2014, Clearwater, Florida.
60. **Plowman, E.K,** **Domer, A,** **Watts, S,** **Gaziano, J,** **Tabor, L.S,** **D,** **Richter, J,** **Gooch, C,** **Vu, T.** The Impact of Exercise on Bulbar Function in Individuals with Amyotrophic Lateral Sclerosis. 12<sup>th</sup> Annual North East ALS Consortium Meeting, October 3, 2013, Clearwater, Florida.
61. **Plowman, E.K,** **Domer, A,** **Watts, S,** **Gaziano, J,** **Tabor, L.S,** **D,** **Richter, J,** **Gooch, C,** **Vu, T.** The Relationship Between Voluntary Cough Production and Swallow Safety in Individuals with Amyotrophic Lateral Sclerosis, 12<sup>th</sup> Annual North East ALS Consortium Meeting, October 3, 2013, Clearwater, Florida.
62. **Watts, S.,** **Pitts, T.,** **Plowman, E.K.\*** Disordered Voluntary Cough Profiles in Persons with Amyotrophic Lateral Sclerosis. 12<sup>th</sup> Annual North East ALS Consortium Meeting, October 3, 2013, Clearwater, Florida.
63. **Tabor, L.S.,** **Watts, S. A.,** **Gaziano, J.,** **Richter J.,** **Vu, T.,** **Gooch, C.,** **Plowman E.K.\*** Communication Effectiveness Profiles in Individuals with Amyotrophic Lateral Sclerosis. 12<sup>th</sup> Annual North East ALS Consortium Meeting, October 3, 2013, Clearwater, Florida.
64. **Domer, A.,** **Watts' S.A.,** **Gaziano' J.,** **Tabor' L.S.,** **Plowman' E.K.\*** The Association Between Pharyngeal Strength and Airway Safety During Swallowing, 12<sup>th</sup> Annual North East ALS Consortium Meeting, October 3, 2013, Clearwater, Florida.

65. Domer, A., Adas, B., **Plowman, E.K.**, Kuhn, M, Belafsky, P. Aspirated Thickened Water Results in Quantitative Lung Injury in a Lagomorph Model. Statewide (Florida) Graduate Research Symposium. Tampa, FL. April 2013.
66. Watts, S., Domer, A., Gaziano, J., Pitts, T., Estores, D., Richter, J., Donoghue, K., Gooch, C., Vu, T., **Plowman, E.K.\*** The Relationship between Voluntary Cough Production and Swallow Safety in Individuals with Amyotrophic Lateral Sclerosis. Statewide Graduate Research Symposium. Tampa, FL. April 2013. *\*(Second Place Research Presentation)*.
67. Watts, S.A., Domer, A.S., Vu, T., Gooch, C., Gaziano, J., Estores, D., Reyes, S., Richter, J., Donohughe, K., **Plowman, E.K.\*** Impact of Expiratory Muscle Strength Training on Bulbar Function in Amyotrophic Lateral Sclerosis. North Eastern Amyotrophic Lateral Sclerosis Convention, Clearwater, Florida, October 25, 2012.

### Local:

68. Robison, R., Tabor, L., Wymer, J., **Plowman, E.K.** A Combined Respiratory Program Improves Pulmonary, Cough and Lingual Physiologic Reserve in an Individual with C9orf72 ALS. Center for Respiratory Research and Rehabilitation Annual Meeting. Gainesville, FL, January 4, 2017.
69. Robison, R., Tabor, L., Wymer, J., **Plowman, E.K.** A Combined Respiratory Program Improves Pulmonary, Cough and Lingual Physiologic Reserve in an Individual with C9orf72 ALS. University of Florida T32 Neuroplasticity Symposium. Gainesville, FL, March 17, 2017. *\*(Awarded 1<sup>st</sup> Place)*.
70. Robison, R., Tabor, L., **Plowman, E.K.** The Relationship Between Communication Effectiveness and Disease Severity in Individuals with ALS. University of Florida Annual Graduate Diversity Research Symposium. Gainesville, FL, March 22, 2017. *\*(1<sup>st</sup> Place Biological Sciences Division)*.
71. Tabor, L., Robison, R., Wymer, J., **Plowman, E.K.** Mechanisms of Aspiration in ALS. University of Florida T32 Neuroplasticity Symposium. Gainesville, FL, March 17, 2017.
72. Robison, R., Tabor, L., Gaziano, J., Vu, T., Gooch, C., **Plowman, E.K.** Tongue Tied: The Impact of Tongue Training in Individuals with ALS. University of Florida Center for Neurogenetics Annual Symposium. Gainesville, FL, July 22, 2016.
73. Robison, R., Tabor, L., Gaziano, J., Vu, T., Gooch, C., **Plowman, E.K.** The Impact of Lingual Resistance Training in Two Persons with ALS. University of Florida PHHP Research Day. Gainesville, FL, April 15, 2016.
74. Tabor, L.C., Gaziano, J., Rosado, K. & **Plowman, E.K.** Impact of Expiratory Muscle Strength Training on Respiratory Function, Global Disease Progression and Quality of Life in an Individual with ALS, Neuromuscular Plasticity Symposium, Gainesville, FL, University of Florida PHHP Research Day, Gainesville, FL, April 15, 2016.
75. Robison, R., Tabor, L., Gaziano, J., Vu, T., Gooch, C., **Plowman, E.K.** The Impact of Lingual Resistance Training in Two Persons with ALS. University of Florida Neuroplasticity Symposium, Gainesville, FL, March 10, 2016.
76. Tabor, L.C., Gaziano, J., Rosado, K. & **Plowman, E.K.** Impact of Expiratory Muscle Strength Training on Respiratory Function, Global Disease Progression and Quality of Life in an Individual with ALS, Neuromuscular Plasticity Symposium, Gainesville, FL, March 10, 2016.
77. Watts, S., Tabor, L., Gaziano, J., Robison, R., Turner, K., Richter, J., Vu, T., Gooch, C., **Plowman, E.K.** (2015). Presence of Huffing During Voluntary Cough is Associated with Penetration-Aspiration in Individuals with Amyotrophic Lateral Sclerosis. USF Graduate and Postdoctoral Research Symposium.
78. Domer, A., Adams, B., **Plowman, E.K.**, Kuhn, M, Belafsky, P. *Aspirated Thickened Water Results in Quantitative Lung Injury in a Lagomorph Model.* University of South Florida Graduate Student and Postdoctoral Scholar Research Symposium, Tampa, FL. March 2013. *\*(Humanities Division Winner)*.
79. Watts, S., Domer, A., Gaziano, J., Pitts, T., Estores, D., Richter, J., Donoghue, K., Gooch, C., Vu, T., **Plowman, E.K.\*** *The Relationship between Voluntary Cough Production and Swallow Safety in Individuals with Amyotrophic Lateral Sclerosis.* University of South Florida Graduate Student and Postdoctoral Scholar Research Symposium. Tampa, FL. March 2013. *\*(Humanities Division Winner)*.

### RESEARCH MENTORING ROLES:

#### **Post-Doctoral Fellow:**

Joshua Halonen, Ph.D. (2014-15)

#### **Doctoral Chair:**

Lauren Tabor (current)  
Raele Robison (current)  
Jennifer Chapin (current)

**Doctoral Committee Member:**

Alicia Vose (current)  
Amy Fullerton (current)  
Brendan Doyle (current)  
Stephanie Watts (University of South Florida) (current)  
Stephanie Reyes Georgia State University (current)  
Loni Arese, Ohio State University (degree conferred April 2015)  
Alex Elkins (Degree conferred 2013)

**Masters Thesis Chair:**

Rachel O'Neil (current)  
Raele Robison (Degree conferred 2015)

**Undergraduate Honors Thesis:**

Maya Burns (Degree conferred 2017)  
Leann Grange Degree conferred 2017)  
Elizabeth Hubbs (Degree conferred 2012)