

CURRICULUM VITAE

JAMES L. COYLE, Ph.D., CCC-SLP, BCS-S

BIOGRAPHICAL

Name: James L. Coyle

Business Address:

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Department of Communication Science & Disorders

University of Pittsburgh

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EDUCATION and TRAINING

UNDERGRADUATE:

Dates Attended:	Name and Location: of Institution	Degree and Year	Major Subject
03/1978-09/1978	California State University, Los Angeles	BA, 1978	Health Science

GRADUATE:

Dates Attended:	Name and Location: of Institution	Degree and Year	Major Subject
01/1979-06/1981	California State University, Los Angeles	-	Health Care Administration
09/1986-12/1988	California State University, Northridge	M.A., 1988 with distinction	Communication Disorders
09/1992-05-1993	University of Wisconsin, Madison	-	Communication Disorders PhD
01/2001-04/2008	University of Pittsburgh	Ph.D., 2008	Rehabilitation Science

APPOINTMENTS and POSITIONS

ACADEMIC:

Years Inclusive	Name and Location of Institution or Organization	Rank/Title
03/2017 – present	University of Pittsburgh Communication Science & Disorders, Dept. of Otolaryngology, School of Medicine	Professor
02/2016 – 07/2017	University of Pittsburgh Dept. of Otolaryngology, School of Medicine	Associate Professor
07/2013 – 07/2017	University of Pittsburgh Communication Science & Disorders	Associate Professor
05/2010 – present	Ohio State University Communication Science & Disorders	Adjunct Faculty
11/2008 – 07/2013	University of Pittsburgh Communication Science & Disorders	Assistant Professor
08/1999-11/2008	University of Pittsburgh Communication Science & Disorders	Instructor
01/1994-07/1999	University of Wisconsin, Madison Communication Science & Disorders	Instructor; Preceptor
08/1991-06/1992	University of Wisconsin, Whitewater Communication Disorders	Instructor
09/1987-08/1991	California State University, Northridge Communicative Disorders	Instructor

NON-ACADEMIC/CLINICAL:

Years Inclusive	Name and Location of Institution of Organization	Rank/Title or Position
1999-present	University of Pittsburgh Medical Center (inpatient, outpatient)	Medical Speech Pathologist
1995-1999	University of Wisconsin Hospitals and Clinics; Senior Research and Clinical UW/VA Swallowing Research Laboratory (inpatient, outpatient, homecare, research)	Senior Research and Clinical Speech Language Pathologist

1994-1995	University of Wisconsin Hospitals and Clinics Madison, WI (in, outpatient)	Clinical Speech Language Pathologist
1993-1994	Learning Services Corporation Middleton, WI (outpatient, residential)	Speech Language Pathologist
1992-1994	William S. Middleton Veterans Hospital Madison, WI (inpatient, outpatient)	Research Speech Language Pathologist
1991-1993	Private Practice, Consulting in Speech Language Pathology, Medical Centers in Southern Wisconsin (inpatient)	Consultant, Speech Pathologist
1991-1991	Novacare Corporation Madison, WI. (skilled nursing, homecare)	Clinical Coordinator, SLP
1989-1991	St. John's Regional Medical Center Oxnard, CA. (inpatient rehab)	Speech Language Pathologist II
1989-1989	Marianne Dunn and Associates Private practice. (inpatient)	Speech Pathologist
1979-1984	Burbank Community Hospital Burbank, CA	Administrative Director, Rehabilitation Svcs.

CERTIFICATION and LICENSURE

SPECIALTY CERTIFICATION:

Certifying Board

Board Certified, American Board of Swallowing
and Swallowing Disorders

Year

2005-present

Licensing Board/State

License. Pennsylvania State Board of Examiners
in Speech-Language Pathology and Audiology, Dept. of State
(Speech-Language Pathologist) #SL005906L

Year

1999-present

License. Wisconsin Department of Regulation
And Licensing (Speech Language Pathologist)

1991-2001

License. California Department of Licensing
(Speech Language Pathologist)

1990-1993

MEMBERSHIPS in PROFESSIONAL and SCIENTIFIC SOCIETIES

Organization	Year
Pennsylvania Speech Language Hearing Association:	2014
Southwest PA Speech-Language-Hearing Association	2016
Dysphagia Research Society (full member)	1992-present
American Speech Language Hearing Association	1989-present

HONORS

Title of Award	Year
Honors of the Association, Southwestern Pennsylvania Speech Language and Hearing Association	2019
Chancellor's Distinguished Teaching Award University of Pittsburgh	2016
State Clinical Achievement Award, American Speech-Language and Hearing Foundation, and state nominee from Pennsylvania for the Louis DiCarlo Award for national recognition of clinical achievement	2015
Clinical Achievement Award, Pennsylvania Speech Language And Hearing Association	2015
Fellow, American Speech Language Hearing Association	2014
Dean's Distinguished Teaching Award, School of Health and Rehabilitation Sciences, University of Pittsburgh	2007
Award for Continuing Education (ACE), American Speech, Language Hearing Association	2008, 2011 - 2019

PUBLICATIONS

Refereed articles

***Trainee mentored to publication or senior author or both**

*Donohue, C., Khalifa, Y., Perera, S., Sejdić, E., & Coyle, J. L. (2020). A preliminary investigation of whether HRCA signals can differentiate between swallows from healthy people and swallows from people with neurodegenerative diseases. *Dysphagia*. <https://doi-org.pitt.idm.oclc.org/10.1007/s00455-020-10177-0>.

*Sabry, A., **Coyle, J. L.**, & Abou-Elsaad, T. (2020). Mansoura Fiberoptic Endoscopic Evaluation of Swallowing Residue Rating Scale (MFRRS): An Anatomically Based Tool – A Preliminary Study. *Folia Phoniatrica et Logopaedica*.
<https://doi.org/10.1159/000512158>

*Donohue, C., & **Coyle, J. L.** (2020). The safety, tolerability, and impact of respiratory swallow coordination training and expiratory muscle strength training on pulmonary, cough, and swallow function surrogates in amyotrophic lateral sclerosis. *Perspectives of the ASHA Special Interest Groups*, 5(6), 1603-1615. https://doi.org/10.1044/2020_PERSP-20-00030.

Coyle, J. L., & Sejdić, E. (2020). High-resolution cervical auscultation and data science: New tools to address an old problem. *American Journal of Speech Language Pathology*, 29(2S), 992-1000. https://doi.org/doi:10.1044/2020_AJSLP-19-00155

Khalifa, Y., Donohue, C., **Coyle, J. L.**, & Sejdic, E. (2020). Upper esophageal sphincter opening segmentation with convolutional recurrent neural networks in high resolution cervical auscultation. *IEEE Journal of Biomedical and Health Informatics*, 25-2, 493-503.
<https://doi.org/10.1109/JBHI.2020.3000057>

Khalifa, Y., **Coyle, J. L.**, & Sejdić, E. (2020). Non-invasive identification of swallows via deep learning in high resolution cervical auscultation recordings. *Scientific Reports*, 10(1), 8704. <https://doi.org/10.1038/s41598-020-65492-1>

*Donohue, C., Mao, S., Sejdić, E., **Coyle, J.L.**, (2020). Tracking hyoid bone displacement during swallowing without videofluoroscopy using machine learning of vibratory signals. *Dysphagia*. <https://doi.org/10.1007/s00455-020-10124-z>

*Donohue, C., & **Coyle, J.L.** (2020). How important is randomization of swallows during kinematic analyses of swallow function? *American Journal of Speech Language Pathology*. https://pubs.asha.org/doi/abs/10.1044/2020_AJSLP-20-00020

*Sabry, A., Mahoney A.S., Mao, S., Khalifa, Y., Sejdić, E., & **Coyle J.L.** (2020). Automatic estimation of laryngeal vestibule closure duration using High-Resolution Cervical Auscultation signals. *Perspectives of the ASHA Special Interest Groups*, 5(6), 1647-1656. https://doi.org/10.1044/2020_PERSP-20-00073.

Zhang, Z., Perera, S., Donohue, C., Kurosu, A., Mahoney, A. S., **Coyle, J. L.**, & Sejdic, E. (2020). The prediction of risk of penetration-aspiration via hyoid bone displacement features. *Dysphagia*, 35(1), 66-72. <https://doi.org/10.1007/s00455-019-10000-5>

He, Q., Perera, S., Khalifa, Y., Zhang, Z., Mahoney, A. S., Sabry, A., Donohue, C., **Coyle, J.L.**, & Sejdić, E. (2019). The association of high resolution cervical auscultation signal features with hyoid bone displacement during swallowing. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 27-9:1810-1816.
<https://doi.org/doi:10.1109/TNSRE.2019.2935302>. PMID: 31443032.

Mao, S., Zhang, Z., Khalifa, Y., Donohue, C., **Coyle, J. L.**, & Sejdic, E. (2019). Neck sensor-supported hyoid bone movement tracking during swallowing. *Royal Society Open Science*, 6(7), 181982. <https://doi.org/doi:10.1098/rsos.181982>

Sejdić, E., Malandraki, G.A., & **Coyle, J.L.**, (2019). Computational deglutition: Signal and image processing methods to understand swallowing and associated disorders. *IEEE Signal Processing Magazine*, 36: 1, 138-146. <https://doi.org/10.1109/MSP.2018.2875863>

Rebrion, C., Zhang, Z., Khalifa, Y., Ramadan, M., Kurosu, A., **Coyle, J.L.**, Perera, S., & Sejdic, E. (2018). High resolution cervical auscultation signal features reflect vertical and horizontal displacement of the hyoid bone during swallowing. *IEEE Journal of Translational Engineering in Health and Medicine*, 7:1800109. <https://doi.org/doi:10.1109/JTEHM.2018.2881468>.

Zhang, Z., **Coyle, J. L.**, & Sejdić, E. (2018). Automatic hyoid bone detection in fluoroscopic images using deep learning. *Scientific Reports*, 8(1), 12310.

*Sabry, A., Abdelghany, A. M., **Coyle, J. L.**, El-Mitwalli, A., & Abou-Elsaad, T. (2018). Developing Viscosity Modelling for Traditional Liquids in Egypt. *Folia Phoniatrica et Logopaedica*, 70(1), 37-43.

*Kurosu, A., **Coyle, J.L.**, Dudik, J., & Sejdic, E. (2018). High resolution cervical auscultation to detect swallow kinematic events, part 1: the acoustic signals. *Archives of Physical Medicine and Rehabilitation*. <https://doi.org/0.1016/j.apmr.2018.05.038>.

Khalifa, Y., **Coyle, J.L.**, & Sejdic, E., (submitted). Automatic segmentation of swallowing accelerometry and sounds using deep neural networks. *Nature Biomedical Engineering*.

Dudik, J. M., Kurosu, A., Coyle, J. L., & Sejdic, E. (2018). Dysphagia and its effects on swallowing sounds and vibrations in adults. *Biomed Eng Online*, 17(1), 69. <https://doi.org/10.1186/s12938-018-0501-9>

Dudik, J. M., **Coyle, J. L.**, El-Jaroudi, A., Mao, Z.-H., Sun, M., & Sejdić, E. (2018). Deep learning for classification of normal swallows in adults. *Neurocomputing*, 285, 1-9. <https://doi.org/10.1016/j.neucom.2017.12.059>

Movahedi, F., **Coyle, J.L.**, & Sejdic, E. (2018). Deep belief networks for electroencephalography: A review of recent contributions and future outlooks. *IEEE Journal of Biomedical and Health Informatics*, 22(3): 642-652. <https://doi.org/10.1109/JBHI.2017.2727218>.

Movahedi, F., Kurosu, A., **Coyle, J. L.**, Perera, S., & Sejdić, E. (2017). Anatomical directional dissimilarities in tri-axial swallowing accelerometry signals. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 25(5), 447-458.

Movahedi, F., Kurosu, A., **Coyle, J. L.**, Perera, S., & Sejdić, E. (2017). A comparison between swallowing sounds and vibrations in patients with dysphagia. *Computer Methods and Programs in Biomedicine*, 144: 179-187.

Jestrovic, I., **Coyle, J.L.**, Perera, S., & Sejdic, E., (2016). Differences in brain networks during consecutive swallows detected using an optimized vertex-frequency algorithm. *Neuroscience*, 344: 113-123.

*Evangelista, L.M., & **Coyle, J.L.**, (2016). Considerations in dysphagia management following esophagectomy. *Perspectives of the ASHA Special Interest Groups*, 1(13), 169-176.

Jestrovic, I., **Coyle, J.L.**, Perera, S., & Sejdic, E., (2016). Functional connectivity patterns of normal human swallowing: difference among various viscosity swallows in normal and chin-tuck head positions. *Brain Research* 1652: 158-169.

Dudik, J. M., **Coyle, J. L.**, El-Jaroudi, A., Sun, M., & Sejdić, E. (2016). A matched dual-tree wavelet denoising for tri-axial swallowing vibrations. *Biomedical Signal Processing and Control*, 27, 112-121.

Dudik, J.M., Kurosu, A., **Coyle, J.L.**, & Sejdic, E., (2016). A statistical analysis of cervical auscultation signals from adults with unsafe airway protection. *Journal of Neuroengineering and Rehabilitation*, 13(7): 1-10.

Dudik, J. M., **Coyle, J. L.**, & Sejdic, E. (2015). Dysphagia screening: Contributions of cervical auscultation signals and modern signal-processing techniques. *IEEE Trans Hum Mach Syst*, 45(4), 465-477.

Dudik, J. M., Jestrovic, I., Luan, B., **Coyle, J. L.**, & Sejdic, E. (2015). Characteristics of dry chin-tuck swallowing vibrations and sounds. *IEEE Transactions on Biomedical Engineering*, 62(10), 2456-2464.

Jestrovic, I., **Coyle, J.L.**, & Sejdic, E., (2015). Decoding human swallowing via electroencephalography: a state-of-the-art review. *Journal of Neural Engineering*, 12(5):051001.

Jestrovic, I., **Coyle, J.L.**, & Sejdic, E., (2015). Characterizing functional connectivity patterns during saliva swallows in different head positions. *Journal of Neuroengineering and Rehabilitation*, 12(61): 1-12.

Coyle, J.L., (2015). The clinical evaluation: A necessary tool for the dysphagia sleuth. *Perspectives in Swallowing and Swallowing Disorders* (24): February 2015, 18-25.

Dudik, J. M., Jestrovic, I., Luan, B., **Coyle, J. L.**, & Sejdić, E. (2014). A comparative analysis of swallowing accelerometry and sounds during saliva swallows. *BioMedical Engineering OnLine*, 14:3.

- Jestrović, I., **Coyle, J.L.**, & Sejdic, E. (2014). The effects of increased fluid viscosity on stationary characteristics of EEG signals in healthy adults. *Brain Research*, 1589: 45-53.
- Jestrović, I., Dudik, J. M., Luan, B., **Coyle, J. L.**, & Sejdić, E. (2013). Baseline characteristics of cervical auscultation signals during various head maneuvers. *Computers in Biology and Medicine*, 43(12), 2014-2020.
- Jestrovic, I., Dudik, J.M., Luan, B., **Coyle, J.L.**, Sejdic, E., (2013). The effects of increased fluid viscosity on swallowing sounds in healthy adults. *Biomedical Engineering Online*, 12:90.
- Coyle, J.L.**, (2012). Tele-dysphagia management: An opportunity for prevention, cost-savings and advanced training. *International Journal of Telerehabilitation*, 4(1): 37-40.
- Coyle, J. L.** (2011). Water, water everywhere, but why? Argument against free water protocols. *Perspectives on Swallowing and Swallowing Disorders (Dysphagia)*, 20(4), 109-115. doi: 10.1044/sasd20.4.109
- Leslie, P., & **Coyle, J. L.** (2010). Complex decisions involving gastrostomy feeding tubes: When you're never right or wrong. *SIG 15 Perspectives on Gerontology*, 15(2), 42-47.
- Coyle, J. L.**, Davis, L. A., Easterling, C., Graner, D. E., Langmore, S., Leder, S. B. et al. (2009). Oropharyngeal dysphagia assessment and treatment efficacy: setting the record straight (response to Campbell-Taylor). *Journal of the American Medical Directors Association*, 10, 62-66.
- Leslie, P., Drinnan, M.J., Zammit-Maempel, I., **Coyle, J.L.**, Ford, G.A., Wilson, J.A., (2007). Cervical auscultation synchronized with images from endoscopy swallow evaluations. *Dysphagia*, 22(4): 290-298.
- Robbins J.A., **Coyle J.L.**, Rosenbek J., Roecker E., Wood J. (1999). Differentiation of normal and abnormal airway protection during swallowing using the penetration-aspiration scale. *Dysphagia* 14:228-232.
- McCullough G.H., Rosenbek J.C., Robbins J.A., **Coyle J.L.**, Wood J.L., (1998). Ordinality and intervality of a penetration-aspiration scale. *Journal of Medical Speech-Language Pathology* 6 (2):65-72.
- Coyle J.L.**, Robbins, J.A., (1997). Assessment and Behavioral Management of Oropharyngeal Dysphagia. *Current Opinion in Otolaryngology Head and Neck Surgery* 5:147-152.
- Rosenbek J.C., Robbins J.A., Roecker E.B., **Coyle J.L.**, Wood J.L., (1996). A penetration-aspiration scale. *Dysphagia* 11: 93-98.
- Ershler W.B., **Coyle J.L.**, Ford C.N., Harari P., Robbins J.A., (1995). Geriatrics: swallowing dysfunction in elderly head and neck cancer patients. *Rehabilitation Research and Development Progress Reports* 32104-5.

2. Reviews, invited published papers, proceedings of conference and symposia, monographs, books and book chapters

Coyle, J.L. (2017). Scaling the swallow: The penetration-aspiration scale quantifies how—and where—a patient’s swallow goes awry. *The ASHA Leader*, 22(5), 36-38.

Coyle, J.L., Rosenbek, J.C., & Kurosu, A., (2017). Neurogenic Oropharyngeal Dysphagia. In *Comprehensive Management of Swallowing Disorders, 2nd edition*. T. Murry & R. L. Carrau, eds. Plural.

Eibling, D., & **Coyle, J.L.**, (2017). Dysphagia in the Elderly. In *Comprehensive Management of Swallowing Disorders, 2nd edition*. T. Murry & R. L. Carrau, eds. Plural.

Sejdic, E., Movahedi, F., Zhang, Z., Kurosu, A., & **Coyle, J.L.**, (2016). The effects of compressive sensing on extracted features from tri-axial swallowing accelerometry signals, Proc. SPIE 9857, Compressive Sensing V: From Diverse Modalities to Big Data Analytics, 985704 (May 10, 2016);

Coyle, J.L., (2015). How we can better prepare students for modern health care. *ASHA Leader, October 2015 Vol. 20*; doi:10.1044/leader.AE.20102015.np

Sejdić, E., Dudik, J. M., Kurosu, A., Jestrović, I., **Coyle, J. L.** (2013). Understanding differences between healthy swallows and penetration-aspiration swallows via compressive sensing of tri-axial swallowing accelerometry signals, in *Proc. of SPIE – Compressive Sensing III*, vol. 9109, Baltimore, MD, USA, May 7-9, 2013, pp. 91090M-1-91090M-6.

Coyle, J.L., (2012). Biomechanical Analysis. In *Videofluoroscopy – A Multi-Disciplinary Team Approach*, R.D. Newman & J. Nightingale (Eds.). San Diego, Plural.

Coyle, J.L., & Matthews, C.T. (2010). A Dilemma in Dysphagia Management: Is Aspiration Pneumonia the Chicken or the Egg? May 18th: *ASHA Leader*.

Matthews, C.T., & **Coyle, J.L.** (2010). Reducing Pneumonia Risk Factors in Patients with Dysphagia Who Have A Tracheotomy: What Role Can SLPs Play. May 18th: *ASHA Leader*.

Leslie, P., & **Coyle, J.L.**, (2010). Promoting clinical effectiveness with postgraduate students. In *Embedding Evidence Based Practice in Speech and Language Therapy*. H. Roddam & J. Skeat, eds., Wiley-Blackwell

Coyle, J.L., (2009). Zenker’s Diverticulum. In *Dysphagia in Rare Conditions*, H. Jones & J.C. Rosenbek, eds., Plural Publishing.

Coyle, J.L., (2008). Multiple Sclerosis. In *Clinical Management of Sensorimotor*

Speech Disorders, 2nd edition. M.R. McNeil, ed., Thieme.

Coyle J.L. (2002). Critical appraisal of a treatment publication: electrical stimulation for the treatment of dysphagia. *Perspectives on swallowing and swallowing disorders* 11(4): 12-14.

Coyle J.L. (2002). Dysphagia and medical speech pathology education at the University of Pittsburgh. *Perspectives on swallowing and swallowing disorders* 11(3):9-12.

Coyle J.L., Rosenbek J.C., Chignell, K.A. (1999). Pathophysiology of Neurogenic Oropharyngeal Dysphagia, in *Comprehensive Management of Swallowing Disorders*, R.Carrau, T. Murry Eds. New York, Singular.

Coyle, J.L., Wood, J.L., Robbins, J.A., Ford, C.N., Harari, P.M., (1994). Changes in swallow duration and bolus velocity in head and neck cancer patients treated with radiotherapy. *Dysphagia* Research Society, Tyson's Corner, VA.

3. Published Abstracts and Conference Proceedings

Sejdić, E., Movahedi, F., Zhang, Z., Kurosu, A., & **Coyle, J. L.** (2016). The effects of compressive sensing on extracted features from tri-axial swallowing accelerometry signals. Paper presented at the Proc. SPIE 9857, Compressive Sensing V: From Diverse Modalities to Big Data Analytics, Baltimore, Maryland, USA.

Coyle, J.L. (2004). Concepts of tele-fluoroscopy: efficacious for applications in speech pathology? *Electronic Journal of Pathology and Histology*, 10(2), 042-10.

Coyle J.L., Robbins JA, Levine RA, (1998). A sensory indicator of swallowing mechanism deficits. *Dysphagia*, 13.

Robbins JA, **Coyle J.L.,** Dengel GA, Kennell T, (1998). MRI assessment of lingual sarcopenia. *Dysphagia* 13.

Dengel GA, Robbins JA, **Coyle J.L.,** Sonies B, (1996). Hyoid Rotation During Swallowing. *Dysphagia*, 11.

Singaram C, Bass P, Chignell K, **Coyle J.L.,** O'Brien R, Dengel G, Robbins JA, Sweet M., Gaumnitz E, (1995). Characterization of the chronically denervated opossum lower esophageal sphincter (LES). *Neurogastroenterology and Motility* 7:287.
<https://doi.org/10.1111/j.1365-2982.1995.tb00233.x>

Coyle, J.L., Wood, J.L., Robbins, J.A., Ford, C.N., Harari, P.M., (1994). Changes in swallow duration and bolus velocity in head and neck cancer patients treated with radiotherapy. *Dysphagia* 9.

Coyle, J.L., Rosenbek, J.C., Robbins, J.A., Roecker, E.B., Wood, J.L., Maser, A., (1993). The aspiration-penetration scale: Reliability of a clinical tool. *Dysphagia*, 8.

Robbins, J.A., Dengel, G., **Coyle, J.L.**, Wood, J.L., (1992). Image processing in dysphagia research. *Dysphagia*, 7.

4. Other Publications

Coyle J.L. (2001). Swallowing problems in adults. Patient education, public relations brochure, American Speech-Language-Hearing Association, Rockville MD.

Singaram C, Gaumnitz E, Sweet MA, Dengel GA, **Coyle J.L.**, O'Brien RT, Robbins JA, Chignell KA, (1996). Quantitative videofluoroscopic evaluation of the opossum lower esophagus in controls and in an achalasia model. *Unpublished manuscript*.

PROFESSIONAL ACTIVITIES

TEACHING

University of Pittsburgh-Courses Taught

- CSD 2509 Head and Neck Anatomy. 2014 – 2019. Anatomy of the supra-pelvic human body with emphasis on aerodigestive tract structures, oropharyngeal mechanism, respiratory and digestive systems.
- CSD 2512 Head and Neck Anatomy Laboratory. 2011 – 2019. Applied anatomy, cadaver laboratory with instructor-performed dissection
- CSD 2504 Applied Aerodigestive Physiology 2. 2013 – 2019. 2 credits. Application of instrumentation in the assessment, measurement, analysis of pulmonary function and swallowing, and for planning of intervention. Emphasis on the interaction and coordination of respiratory and deglutitive functions of the upper aerodigestive tract.
- CSD 3479 Doctoral Research Seminar in Speech Language Pathology. Spring 2012. 3 credits. Topic range: Neural plasticity and dysphagia interventions; competitive research designs for investigating effects of dysphagia intervention in modern health care systems
- CSD 2076. Dysphagia. Every Fall term, 1999 – present. 3 credits. Anatomy and physiology of the upper aerodigestive tract, assessment and treatment of oropharyngeal swallowing disorders, interpretation of fiberoptic and radiographic imaging swallowing study data.
- CSD 2065. Network Clinical Practicum. Every Fall, Spring, and Summer term, August 1999 – present. 6 credits per term. Didactic and practical instruction in clinical procedures involved in the evaluation of adult patients in the acute care, intensive care, acute rehabilitation settings, and outpatients, in the University of

Pittsburgh Medical Center. I teach the clinical process through my caseload in the acute care and intensive care units of the medical center.

- CSD 2479. Seminar in Speech Language Pathology. 3 credits. Summer 2000, 2001, 2002. Medical Speech Language Pathology seminar. Advanced study of special topics pertinent to medical Speech Language Pathologists. (see description below for CSD 2500)
- CSD 2064. Orientation to Clinic. Fall 2003. 3 credits. Principles of assessment, treatment, appropriate clinical behavior, documentation, safety, universal precautions, clinical procedures, medical ethics, and development of oral presentation style.
- CSD 2500. Medical Speech Language Pathology. Summer term 2003 – present. 3 credits. Advanced topics in Medical Speech Language Pathology, of special interest to clinicians working in acute care settings. Pulmonary system and disease, digestive system and disease, iatrogenic disorders causing dysphagia and communication disorders, mechanical ventilation and tracheostomy management, enteral nutrition, pharmacology of common medications, neurodegenerative disease, pediatrics. Students trained and practiced critical appraisal of scientific literature, presentation of critically appraised topics.
- CSD 1101. Orientation to the Clinical Process (team taught with Elaine Mormer). Every Spring term, 2004-2012. 3 credits. Undergraduate course. Introduction to various aspects of the clinical process including assessment, treatment planning, documentation, observation skills, data collection, ethics, interviewing, counseling, universal precautions, confidentiality, etc.

University of Wisconsin, Madison: Department of Communication Disorders

- Communicative Disorders 910. Dysphagia. 3 credits lecture/seminar. Every Spring term, 1994 - 1999. Head and neck anatomy and physiology related to oropharyngeal swallowing function; interpretation of Videofluoroscopic radiographic examinations, evaluation and treatment of swallowing disorders.
- Clinical preceptor, Medical Speech Language Pathology, 1996-1999

University of Wisconsin, Whitewater. Department of Communication Science & Disorders

- Communicative Disorders 472. Assessment in Communicative Disorders. Fall 1991 – Spring 1992. Lecture, 3 credits. Theoretical and practical aspects of the assessment process in communicative disorders. Issues and methods involved in clinical decision-making are reviewed through case studies and applied activities. The interpretation and documentation of information collected during the assessment process are also discussed.
- Communicative Disorders 460. Clinical Practicum. Fall 1991 – Spring 1992. 3 credits (one credit per student per term). I instructed and supervised three students

each term in the department's in-house speech and hearing clinic, in performance of diagnostic and therapeutic clinical procedures with children and adults.

California State University Northridge

Physical Therapy Curriculum

- Health Science 301 and 301 L. Gross Human Anatomy lecture and lab. 4 credits. Fall 1987, 1988, 1989, 1990. Musculoskeletal anatomy of the human body, including all musculature of the axial and appendicular skeleton, peripheral innervations of sensorimotor structures. Cadaver dissection laboratory (I had 12 new cadavers in my lab each year).
- Health Science 302 and 302 L. Human Physiology lecture and lab. 4 credits. Spring 1988, 1989, 1990. Basic cardiovascular, pulmonary, renal, integumentary, neurophysiology; pathophysiology of burns and connective tissue disease, injury.

Speech Language Pathology Curriculum

- Communicative Disorders 442 L: laboratory in speech science, anatomy and physiology. 1 credit. Fall 1987 - 1990, and Spring 1988 - 1991. Prosected cadaver specimens and cadaver dissection laboratory involving upper aerodigestive tract, head and neck anatomy, physiology of laryngeal function, buccofacial, pharyngeal, respiratory and digestive structure and function.
- Communicative Disorders 442, Speech Science, Anatomy and Physiology, lecture. 3 credits. Fall 1987 - 1990, and Spring 1988 - 1991. (concurrent with CD 442L). Oral, facial, pharyngeal, craniofacial, respiratory anatomy and physiology related to production of speech, swallowing, vegetative functions.

STUDENT MENTORING

Research Doctorate (PhD), Master's thesis (M.S.), Bachelor of Philosophy (Honors College) B.Phil students

- PhD Dissertation Committee: Gary Gartling, 2020.
- PhD Committee member: Shitong Mao, Department of Computer and Electrical Engineering, Swanson School of Engineering.
- PhD student mentor/academic advisor: Erin Lucatorto, 2020 - present
- Master's Thesis committee member: Katherine McGovern (defense 03/2020).
- PhD Comprehensive Examination Committee: Gary Gartling, 2019.
- PhD student mentor/academic advisor: Cara Donohue, 2018 - present
- PhD student mentor/academic advisor: Amanda Mahoney, 2017 - present
- PhD co-supervision: Aliaa Sabry, University of Mansoura (Egypt). 2016-2019. Defended 07/25/19.
- PhD Student Atsuko Kurosu: Mentor/Committee chair. Dissertation subject: Effects of the command swallow paradigm on swallow physiology in healthy adults. 2010-2018.
- PhD Committee member: Zhenwei Zhang, Department of Computer and Electrical Engineering, Swanson School of Engineering.

- Master's Thesis Mentor/Committee chair: Lindsay Rozynek (defended 03/2019)
- CScD plan of study committee member: Several students; 2010 - present
- Master's Thesis Mentor/Committee chair: Sarah Pomfret (defended 01/2018)
- Master's Thesis Mentor/Committee chair: Natalie Bradshaw (defended 11/2016)
- Master's Thesis Mentor/Committee chair: Abigail Cryan (defended 04/2016)
- B.Phil Thesis Mentor/Committee chair: Sarah Pomfret (defended 03/2016)
- PhD Committee Member: Gregory Genna (CSD). (Defense date: 07/19/18).
- PhD Committee Member: Iva Jestrovic, Department of Electrical and Computer Engineering. (defended: 02/2016)
- PhD Committee member: Adrianna Shembel (CSD)
- PhD Committee member: Joshua Dudik, Department of Electrical and Computer Engineering. (defended 11/2015)
- PhD Committee member: Leah Helou (defended 02/2014)
- PhD Committee member: Aaron Ziegler (defended 06/2014)
- PhD committee member: Amanda Gillespie. (defended 01/2013).
- PhD dissertation committee member: Jeannette Benigas (Ohio State University). defended 04/2013
- B. Phil. Thesis Mentor/Committee chair: Kelly L. Coburn, Student. Project title: Instant messenger use in individuals with Asperger's syndrome. Defended 04/17/2009.

Clinical Doctorate (CScD) students mentoring

- Fall 2018: Annette Askren, Jolene Lawton
- Fall 2017: Kendra McAlear; Jolene Lawton
- Summer 2017: Annette Askren
- Spring 2017: Kendra McAlear
- Summer 2016: Marnie Kershner
- Spring 2016: Susana Keller
- Fall 2015: Kendra McAlear
- Spring 2015: Traci Akiki
- Fall 2014: Kalli Donaway
- Spring 2014: Abrar Alduraibi, Jennifer Pusins, Anastasia Johnson
- Fall 2013: Abrar Alduraibi, Jennifer Pusins
- Spring 2013, Summer 2013: Towino Paramby; Lisa Evangelista
- Fall 2012: Towino Paramby; Lisa Evangelista
- Summer 2012: Towino Paramby; Lisa Evangelista
- Spring 2012: Anastasia Johnson, Towino Paramby
- Fall 2011: Jennifer Pusins, Abrar Alduraibi
- Summer 2011: Rhona Galera
- Spring 2011: Samantha Procaccini, Frederick Turner

- Fall 2010: Vanetta John
- Summer 2010: Sameera Dehaithem
- Spring 2010: Sameera Dehaithem
- Fall 2009: Christine Matthews
- Summer 2009: Kendrea Focht
- Spring 2009: Samantha Proccacini
- Summer 2008: Michael Biel, Christine Matthews
- Spring 2008: Christine Matthews, Kendrea Focht
- Fall 2007: Michael Biel, Kendrea Focht

INVITED and PEER REVIEWED TEACHING, LECTURE, POSTERS, CONTINUING EDUCATION (*peer reviewed)

Coyle, J.L., (2021). Swallowing, Pulmonary and Digestive Interactions in Adults with Dysphagia. One day course. Tallaght University Medical Center, Dublin Ireland. 04/21 (remote conference).

Coyle, J.L., Sejdic, E., & Martino, R., (2021). Big Data and Artificial Intelligence in Dysphagia Research. Platform session, Dysphagia Research Society Annual Meeting. 03/21 (remote conference).

Coyle, J.L., Steele, C., Hutcheson, K., & Lefton-Greif, M., (2021). The Penetration Aspiration Scale: Are We Using it Correctly? Platform session, Dysphagia Research Society Annual Meeting. 03/21 (remote conference).

Coyle, J.L., (2020). Managing Adults with Dysphagia: Aerodigestive Interactions and Considerations. Four-hour seminar. Rocky Mountain University for the Health Professions. Provo, UT. 05/20 (remote conference).

Coyle, J.L., (2020). Medical Speech Pathology and Dysphagia Practice: Managing Complex Adult Patients with Pulmonary, Digestive and Airway Disorders. Two-day course, Pittsburgh PA. 09/20 (remote conference).

Sabry, A, Mao, S., Mahoney, A. S., Khalifa, Y., Sejdic, E., **Coyle, J. L.** (2019)*. Automatic Estimation of Laryngeal Vestibular Closure Duration Using High Resolution Cervical Auscultation (HRCA) Signals. Poster, ASHA Convention, Orlando FL. 11/19

Coyle, J.L., Donohue, C.A., & Mahoney, A.S., (2019)*. Novel Technologies for dysphagia Assessment and Treatment. 1 hour seminar. ASHA Convention, Orlando FL. 11/19.

Garand, K., & **Coyle, J.L.,** (2019)*. SLP Neurology Talk: Your Questions Answered. 2 hour seminar, ASHA Convention, Orlando FL 11/19

Coyle, J.L., & Donohue, C.A., (2019)*. What's Wrong With My Patient? 1 hour Seminar, ASHA Convention. Orlando FL

- Coyle, J.L.,** (2019). Medical SLP's and the Aerodigestive Tract. One day course. Middlesex Medical Center, Hartford CT. 09/19
- Coyle, J.L.,** (2019). Managing Disease-Related Dysphagia with Evidence. One day course. University of Kentucky Medical Center. Lexington, KY. 09/19
- Coyle, J.L.,** (2019). Medical Speech Pathology and Dysphagia Practice: Managing Complex Adult Patients with Pulmonary, Digestive and Airway Disorders. Two-day course, Houston TX. 09/19
- Coyle, J.L.,** (2019). Assessment and Management of Swallowing Disorders in Adults. One day course, Mansoura University Medical School, Mansoura Egypt. 07/19.
- Coyle, J.L.,** (2019). Medical Speech Pathology and Dysphagia: Deploying Evidence to Resolve Clinical Dilemmas. Two-day course, St. Luke's Regional Medical Center, Boise ID.
- Coyle, J.L.,** (2019)*. Feeding through the diagnosis of aspiration: When to feed and when to pause? Dysphagia Research Society Annual Meeting Post-Graduate Course. March 06-07. San Diego CA
- Coyle, J.L.,** (2019)*. Dysphagia and the nagging cough: What are the causal and ameliorating mechanisms? Dysphagia Research Society Annual Meeting Post-Graduate Course. March 06-07. San Diego CA
- Coyle, J.L.,** (2019). New Technologies for Dysphagia Assessment. Seminar. Stanford Advanced Swallowing Course. Stanford University Medical Center. Palo Alto CA. February 1-2.
- Coyle, J.L.,** (2019). Lab Tests, Aspiration Pneumonia: What does It All Mean? Seminar. Stanford Advanced Swallowing Course. Stanford University Medical Center. Palo Alto CA. February 1-2.
- Coyle, J.L.,** (2018). The Medical SLP and the Aerodigestive Tract. Two-day course. Mary Free Bed Rehabilitation Hospital. Grand Rapids MI. October 12-13.
- Coyle, J.L.,** (2018). Pulmonary function, diseases, interventions and interactions. Seminar. Duke University Medical Center. Sept. 28. Durham NC
- Coyle, J.L.,** (2018). Using objective methods of measuring and interpreting videofluoroscopic swallow studies: the penetration aspiration scale. Seminar. Duke University Medical Center. Sept. 29. Durham NC
- Coyle, J.L.,** (2018). Review of evidence connecting physiologic data and medical record findings to clinical decision-making in dysphagia management. Seminar. Duke University Medical Center. Sept. 29. Durham NC

Coyle, J.L., (2018). Medical Speech-Language Pathology: It's the Aerodigestive Tract and Not the Swallowing Mechanism. 2 day course. Lakeland Regional Health, Lakeland, FL. Sept. 8-9.

Coyle, J.L., (2018)*. What's Wrong With My Patient: Lungs, Brains, and Moving our Profession into the Future. Seminar. American Speech-Language-Hearing Association Convention, Boston, MA, November.

Donohue, C., Mahoney, A., Zhang, Z., Kurosu, Z., Sejdic, E., & **Coyle, J.L.** (2018)* Do Machine Ratings of Hyoid Bone Displacement During Videofluoroscopy Match Clinician Ratings Using the MBSImP? Poster, American Speech-Language-Hearing Association Convention, Boston, MA, November.

Donohue, C., Zhang, Z., Mahoney, A., Perera, S., Sejdic, E., & **Coyle, J.L.** (2018)* Can Machine Ratings of Hyoid Bone Displacement During Swallowing Predict Penetration & Aspiration? Poster, American Speech-Language-Hearing Association Convention, Boston, MA, November.

Ciucci, M., **Coyle, J.L.**, & Martino, R., (2018). Neurogenic dysphagia: Identifying the Risk. Charleston Swallowing Conference at Northwestern University. Seminar. July 2019. Chicago IL.

Coyle, J.L., (2018). Medical Speech Pathology and Dysphagia Practice: Managing Complex Adult Patients with Pulmonary, Digestive and Airway Disorders. 2 day course. March 1-2 Uniontown, NY; April 20-21, Seattle WA.

Coyle, J.L., (2018). Modern Medical Speech-language Pathology: It's All About the Disease. Day Institute (6 hours). Missouri Speech Language Hearing Association Convention, Lake of the Ozarks, MO. April 5.

Coyle, J.L., (2018). Breathing, ICU's, and the Future of Our Profession. Short Course. Pennsylvania Speech Language and Hearing Association Convention, Pittsburgh. 3 hours.

Coyle, J.L., (2018). Dysphagia, Pneumonia, the Gut, Oh My! Medical SLT off the Yellow Brick Road. Scotland Dysphagia Clinical Excellence Network, Dundee, Scotland. 03/2018.

Garand, K., & **Coyle, J.L.**, (2017)*. Neuromuscular Physiology & Pathophysiology: Primer for the SLP. Seminar. American Speech Language and Hearing Association Convention, Los Angeles CA, November.

Coyle, J.L., (2017)*. What's Wrong With My Patient? ICU Assessment Considerations & Neurological Disease Clues & Clinical Tactics. Seminar one hour, American Speech Language and Hearing Association Convention, Los Angeles CA, November.

Coyle, J.L., Suiter, D., & Sterling, L. (2017)*. @UnderstandingEvidence: Finding the #Dysphagia Evidence in #Social Media. Seminar, American Speech Language and Hearing Association Convention, Los Angeles CA, November.

Pomfret, S.A., & **Coyle, J.L.,** (2017)*. Comparison of Swallowing Outcomes in Single vs. Double Lung Transplant Recipients. Poster, American Speech Language and Hearing Association Convention, Los Angeles CA, November.

Coyle, J.L., (2017). Medical Speech Language Pathology: The Effects of Disease on Swallowing. One-day course, Brooks Rehabilitation Hospital, Jacksonville, FL (October 14).

Coyle, J.L., (2017). Managing Dysphagia in Older Adults: Essential Knowledge and Skills. Seminar (1 hour). ASHA 2017 Dysphagia in Older Adults online conference.

Coyle, J.L., (2017). Physiologic Changes and Interactions With Disease in Older Adults Seminar (1 hour). ASHA 2017 Dysphagia in Older Adults online conference.

Coyle, J.L., (2017). Using the Penetration Aspiration Scale to Interpret Videofluoroscopic Swallowing Studies. Seminar (1.5 hour), and lab (1 hour). ASHA Connect Conference, July, New Orleans, LA.

Coyle, J.L., (2017). Screening, Assessment and management of Oral Colonization in the ICU. Seminar (1.5 hour). ASHA Connect Conference, July, New Orleans, LA.

Coyle, J.L., (2017). Practicing at the Top of our License: Integrating Knowledge Into Medical SLP Practice. One-day course. University of Utah Communication Science and Disorders Department, June 17th.

Coyle, J.L., (2017). Medical Speech Pathology and Dysphagia Practice: Managing Complex Adult Patients with Pulmonary, Digestive and Airway Disorders. 2 day course. April 7-8, Fremont CA, and Glendale CA April 21-22

Coyle, J. L., (2017). Managing Dysphagia in Adults: It's All About the Disease. One day course. Speech-Language-Hearing Association of the Hudson Valley, New Paltz, NY, May, 2017

Coyle, J.L., (2017). Dysphagia and Medical Speech-Language Pathology: Where Have We Been, and Where are We Going? Mini-seminar, 1.5 hours. California Speech-Language-Hearing Association Convention. Pasadena, CA. 03/17.

Coyle, J.L., (2017). Screening and Clinical Examination in the Intensive Care Unit. Dysphagia Research Society Annual Scientific Meeting, Post-graduate Course. Panel presentation. Portland, OR. 03/17.

Coyle, J.L., (2017). Managing Oral Colonization in the Intensive Care Unit. Dysphagia Research Society Annual Scientific Meeting, Post-graduate Course. Panel presentation. Portland, OR. 03/17.

Coyle, J.L., (2017)*. The Esophagus and the Medical Speech Language Pathologist: What's Going On Down There? Illinois Speech Language Hearing Association Convention, Seminar, 2 hours. Chicago, IL. 02/17.

Coyle, J.L., (2017)*. Breathing and Swallowing: Important Interactions. Illinois Speech Language Hearing Association Convention, Seminar, 2 hours. Chicago, IL. 02/17.

Coyle, J.L., (2017). The Medical SLP And Dysphagia Management Update: Current Trends And Evidence. Two-day course. Flagstaff Medical Center, Flagstaff, AZ. 01/17.

Coyle, J.L., (2016)*. What's Wrong with My Patient? Pulmonary & Neurological Disease Clues & Clinical Tactics. Seminar, 2 hours. American Speech Language and Hearing Association Convention. Philadelphia, PA. 11/16.

Corbin-Lewis, K., **Coyle, J.L.,** Gosa, M., Kimelman, M., Rosenbek, J.C., Severson, M., & Swigert, N. (2016)*. Dysphagia Education: Opportunities to Prepare Future Leaders. Seminar, 2 hours. American Speech Language and Hearing Association Convention. Philadelphia, PA. 11/16.

Martin-Harris, B., **Coyle, J.L.,** & Steele, C., (2016)*. Use of Various Tools for Interpretation of the Videofluoroscopic Swallowing Study (VFSS). Seminar, 1 hour. American Speech Language and Hearing Association Convention. Philadelphia, PA. 11/16.

Kurosu, A., Dudik, J., **Coyle, J.L.,** & Sejdic, E., (2016)*. Physiological Source of High Resolution Cervical Auscultation Signals During Swallowing. Poster, American Speech Language and Hearing Association Convention. Philadelphia, PA. 11/16.

Bradshaw, N., Wasserman-Wincko, T., Johnson, J.T., & **Coyle, J.L.,** (2016)*. The Effects of a Device Mediated Lingual Strengthening Protocol on Radiation & Chemoradiation Induced Dysphagia. Poster, American Speech Language and Hearing Association Convention. Philadelphia, PA. 11/16.

Coyle, J.L., (2016). Medical Speech-Language Pathology: Where We've Been and Where We're Going. Keynote address. Congrès international en orthophonie et en audiologie (International Congress In Speech-Language Pathology and Audiology). University of Montreal, Montreal QC, Canada. 11/16

Coyle, J.L., (2016). Swallowing and Dysphagia in the Medical Setting. Two day course. Interior Health Authority of British Columbia, Kelowna, B.C., Canada. 09/16

Coyle, J.L., (2016). Managing Dysphagia in Acute Care Environments: Teasing Out Important Clues. Half day SLP seminar. Community Hospital of the Monterey Peninsula, Monterey CA. July 21st. 07/16.

Coyle, J.L., (2016). Management and Prevention of Dysphagia and its Aftermath. Community Hospital of the Monterey Peninsula, Monterey CA. Medical Grand Rounds.

07/16.

Coyle, J.L., (2016). Aerodigestive Tract Function and Swallowing: It's All About the Disease. Half-day SLP Seminar. The Ohio State University Medical Center. 05/16

Coyle, J.L., (2016). Aspiration Pneumonia in the Acute Care Setting: The Chicken or the Egg? Lecture. Otolaryngology Grand Rounds. 1 hour CME. 05/16

Coyle, J.L., & Murray, J.T., (2016). Medical Speech Language Pathology in the 21st Century. Two day course. Manitoba Health Sciences Centre, Winnipeg, Manitoba, Canada. 05/16

Coyle, J.L., (2016). The Medical Speech Language Pathologist and the Aerodigestive Tract: Resolving Complex Dilemmas with Evidence. Two-day course. Providence Portland Medical Center, Portland OR, 04/16.

Coyle, J.L., (2016). Dysphagia, Aging and the Esophagus: Teasing Out Important Clues. Seminar, 3 hours. Pennsylvania Speech Language and Hearing Association Convention, Pittsburgh. 03/16

Hathaway, B.C., **Coyle, J.L.,** Gildener-Leapman, N., Johnson, J., (2016). Dysphagia. Panel Presentation, Three Rivers Otolaryngology Update, Pittsburgh PA, 03/16.

Coyle, J.L., (2015)*. What's Wrong With My Patient: Esophageal Disorders and the Effects of Human Aging on Swallowing. Seminar, 2 hours. American Speech Language and Hearing Association Convention, Denver, CO. 11/15

Coyle, J.L., Leder, S.B., McCullough, G., Suiter, D., (2015)*. The Clinical Swallowing Examination: Is It Necessary and Useful? Seminar, 1 hour. American Speech Language and Hearing Association Convention, Denver, CO. 11/15

Pomfret, S.A., & **Coyle, J.L.,** (2015)*. Swallowing in Adults Following Single Lung Transplantation. Poster, American Speech Language and Hearing Association Convention, Denver, CO. 11/15

Coyle, J.L., (2015). Swallowing Rehabilitation after Treatment for Head and Neck Cancer: Realistic Expectations. Lecture, 1.5 hours. Greater Baltimore Medical Center/Johns Hopkins Voice Center Annual Head and Neck Conference, 10/15

Coyle, J.L., (2015). Calling It Like It Is: Realistic Goal Setting in Head & Neck Cancer Rehabilitation. Greater Baltimore Medical Center/Johns Hopkins Voice Center Annual Head and Neck Conference, 10/15

Coyle, J.L., & Murray, J.T., (2015). Rethinking the Evaluation, Management and Treatment of Patients with Dysphagia: Black and White or Varied Shades of Gray? University of Wisconsin, Milwaukee, Continuing Education Center, two days. 10/15.

Coyle, J.L., (2015). Medical SLP Diagnostic and Treatment Decision-Making – Modern

Tactics and Strategies. Utah State University Summer Speech Language Pathology Seminar Series, One day, 06/15

Coyle, J.L., (2015). Dysphagia, Pneumonia, the Gut, Oh My! Medical SLP Decision-Making Off of the Yellow Brick Road. One day conference, ProMedica St. Luke's Medical Center, Toledo, OH. 05/15

Coyle, J.L., (2015). Medical Speech Language Pathology: It's All About the Disease and Not All About Swallowing. One-day conference, Medstar National Rehabilitation Hospital, Washington, D.C., 05/15

Coyle, J.L., (2015). Dysphagia Treatment: What Are We Doing and Why? Nevada Speech Language and Hearing Association Convention, 3 hours. 04/15

Coyle, J.L., (2015). Dysphagia and the respiratory system: Aerodigestive tract primer. Nevada Speech Language and Hearing Association Convention, 3 hours, 04/15

Jestrovic, I., & **Coyle, J.L.**, (2015)*. Differences in functional connectivity patterns between swallowing in neutral and chin-tuck position. Poster. Dysphagia Research Society 23rd Annual Scientific Meeting, Chicago, IL.

Coyle, J.L., (2015)*. What's wrong with my patient? Sepsis, Congestive heart failure, esophageal function and disorders. Georgia Speech Language and Hearing Association Convention, Athens, 3 hours, 02/15.

Coyle, J.L., (2015). Dysphagia Treatment: Expected and Unexpected Results of Common Interventions. Georgia Speech Language and Hearing Association Convention, Athens, 3 hours, 02/15.

Coyle, J.L., (2015). Managing Dysphagia in Adults with Medical Conditions. One day seminar. Speech and Hearing Association of Alabama Annual Convention, Birmingham, AL, 02/15.

Coyle, J.L., (2014)*. What's Wrong With My Patient? 2014 Update. Seminar, American Speech Language and Hearing Association Convention, Orlando FL.

Suiter, D., **Coyle, J. L.**, Sterling, L., (2014)*. Bedside Swallow Examinations: What They Can Do & What They Can't. Seminar, American Speech Language and Hearing Association Convention, Orlando FL.

Brodsky, M., & **Coyle, J.L.**, (2014)*. Videofluoroscopy Interpretation—Lateral vs. Other Views: Which Side Is Up? Seminar, American Speech Language and Hearing Association Convention, Orlando FL.

Hind, J., **Coyle, J.L.**, Groves-Wright, K., Kasandjian, M., Kosek, S., Rusche, N., (2014)*. Swallow Strong, Swallow Safe: Case Series From Patients Completing Isometric Progressive Resistance Oropharyngeal (I-PRO) Therapy. Seminar, American Speech Language and Hearing Association Convention, Orlando FL.

Murray, J.T., & Coyle, J.L., (2014). Dysphagia Therapy: What Are We Doing & Why? Seminar, American Speech Language and Hearing Association Convention, Orlando FL.

Wasserman-Wincko, T, Kopstiovsky, A., Jordan, J., **Coyle, J. L.,** McVerry, B; Donahoe, M., Johnson, J.T., (2014)*. Dysphagia after Prolonged Intubation: Improving Screening Process in the Medical Intensive Care Unit. Poster, American Speech Language and Hearing Association Convention, Orlando FL.

Coyle, J.L., (2014). Dysphagia Treatment: What Are We Doing and Why? Seminar (2 hours). Iowa Speech Language Hearing Association Convention. October 24th, Iowa City.

Coyle, J.L., (2014). Dysphagia and the Respiratory System: An Aerodigestive Tract Primer. Seminar (1.5 hours). Iowa Speech Language Hearing Association Convention. October 24th, Iowa City.

Coyle, J.L., (2014)*. What's Wrong With My Patient? Sepsis, Congestive Heart Failure, Esophageal Disorders. Seminar (1.5 hours). Iowa Speech Language Hearing Association Convention. October 24th, Iowa City.

Coyle, J.L., (2014). Medical Speech Language Pathology: Meeting the Needs of a Modern Health Care System. Colorado Speech Language Hearing Association Fall Conference (6 hours). October 6th, Denver CO.

Coyle, J.L., (2014). Thinking Critically about the Dysphagic Adult in the Changing Medical Environment. Advocate Health Continuing Education Conference (6 hours). September 6th, Chicago.

Coyle, J.L., (2014). Impact of tracheostomy on Swallow Function and Safety. Conference on Management of Adults with Tracheostomy and Mechanical Ventilation. Department of Veterans' Affairs, Pittsburgh (2 hours)

Coyle, J.L., (2014). Pneumonia, Aspiration Pneumonia, and the Medical Speech Language Pathologist: What Are We Doing and Why? Twin Cities Speech Language Pathology Conference, St. Paul, May 3, (6 hours).

Coyle, J.L., (2014). Medical Speech Language Pathology: Dysphagia and the GI System. University of Toronto, Baycrest Rehabilitation Center. Toronto, ON, Canada; May 1&2 (12 hours)

Coyle, J.L., (2014). Medical Speech Language Pathology in the 21st Century: Meeting the Needs of the Changing Landscape. Kathy Chester Seminar (6 hours), Columbus OH, April 4.

Coyle, J.L., (2014). Clinical Decision Making in Complex Situations. Short Course. Pennsylvania Speech Language and Hearing Association. April 3rd.

Coyle, J.L., (2014). Dysphagia Treatment: What are we Doing and Why? Seminar, Pennsylvania Speech Language and Hearing Association. April 3rd.

Coyle, J.L., (2014). Evidence Based Research: What are we Doing and Why? Dysphagia Research Society Post-Graduate Course. March 5th.

Coyle, J.L., (2014). Aspiration Pneumonia: Is Dysphagia the Chicken or the Egg? Barrow Neurological Institute, St. Joseph Medical Center, Phoenix AZ (February 8th).

Suiter, D., **Coyle, J.L.**, & Sterling, L., (2013)*. Screening, bedside exams, and common sense: what are we doing and why? Seminar, American Speech Language Hearing Association Convention, Chicago IL. November.

Coyle, J.L., (2013)*. What's Wrong with My Patient: 2013 Update. Aging and pulmonary, cardiovascular, and digestive systems. Seminar, American Speech Language Hearing Association Convention, Chicago IL. November.

Hind, J.A., **Coyle, J.L.**, Kasandjian, M., Pullia, N., & Veis, S., (2013)*. Making the Swallow Stronger: Preliminary Clinical Trial Observations From Isometric Progressive Resistance Oropharyngeal (I-PR0) Therapy. Seminar, American Speech Language Hearing Association Convention, Chicago IL. November.

Kurosu, A., & **Coyle, J.L.**, (2013)*. Sexual Dimorphism in Laryngeal Closure During Swallowing of Fixed vs. Self-Selected Bolus Volume. Poster. American Speech Language Hearing Association Convention, Chicago IL. November.

Coyle, J.L., (2013). Medical Speech-Language Pathology and adults with complex conditions: The influence of underlying diseases in the management of dysphagia. One day seminar. Baylor University Medical Center, Dallas TX. October.

Coyle, J.L., (2013). Assessment and Treatment of Neurogenic Oropharyngeal Dysphagia. University of Pittsburgh Medical Center Hamot Neuroscience Conference, November.

Coyle, J. L., & O'Rourke, A. (2013). Relevance of Labs, Meds, Imaging, Special Procedures in Adult and Pediatric Dysphagia Assessment and Management. Seminar. Charleston Swallowing Conference, Charleston SC. October.

Coyle, J.L., (2013). Managing Dysphagia in Adults with Complex Conditions: Integrating Best Evidence and Clinical Expertise. Greensboro Area Health Education Center, Greensboro NC. 07/25/13. One day seminar.

Coyle, J.L., (2013). Navigating the minefield of medical speech language pathology. Two-day conference. University of Toronto/ Baycrest Rehabilitation Center. Toronto, Canada. 05/2013

Coyle, J.L., (2013). Pulmonary system and disease and the Medical SLP: evidence based management. Wheaton Franciscan Health Care, Milwaukee WI;

05/2013

Coyle, J.L., (2013)*. Treating Dysphagia in the Older Adult: Essential Knowledge and Skills. Dysphagia in Older Adults Web Conference, American Speech Language and Hearing Association. Seminar. May and October.

Coyle, J.L., Robbins, J.A., Leonard, R.J. Ludlow, C.L., Martin-Harris, B.J., (2013)*. Outcome instruments in videofluoroscopy. Dysphagia Research Society Annual Meeting and Postgraduate Course, Seattle, WA. Moderator. March.

Coyle, J.L., (2013). Dysphagia treatment: What are we doing and why? Seminar, Illinois Speech Language Hearing Association convention; 02/2013

Coyle, J.L., (2013). Dysphagia and the respiratory system. Illinois Speech Language Hearing Association convention; 02/2013.

Coyle, J.L., (2012)*. What's wrong with my patient: 2012 update. American Speech Language Hearing Association convention, Atlanta, GA., 11/18/2012. Peer reviewed.

Coyle, J.L., (2012). The respiratory system, the lung, and pulmonary diseases: the forgotten graduate course. Preconvention workshop, American Speech Language Hearing Association convention, Atlanta, GA., 11/16/2012

Coyle, J.L., (2012). Dysphagia and the Respiratory System: An Aerodigestive Tract Primer. Fall Conference, North Carolina Speech Hearing and Language Association. Asheville, N.C., 09/22/12. 6 hours

Coyle, J.L., (2012). Medical Speech Language Pathology in the 21st Century: Challenges and Opportunities. One-day conference, Oklahoma Academy of Medical Speech Language Pathologists. Oklahoma City, 08/03/12. 6 hours

Coyle, J.L., (2012). Dysphagia Practice: Aspiration Pneumonia and the Role of the Speech-Language Pathologist. Fremont, CA, 06/2012; Cleveland OH, 04/2012; Los Angeles, CA, 02/2012. (6 hour continuing education seminar).

Coyle, J.L., (2012). Compensatory Management of Oropharyngeal Dysphagia. 3rd International Conference on Oropharyngeal Dysphagia, Nestle Nutrition Institute, 06/2012, Toronto, Canada.

Coyle, J.L., (2012). Medical Speech Language Pathology in the 21st Century: Challenges and Opportunities. Keynote lecture, Medical Speech Language Pathology Conference, Birmingham, AL. 04/21/12. 6 hours

Coyle, J.L., (2012). Treatment of Dysphagia: Current Controversies, Evidence and Hype. Short Course. Michigan Speech Language and Hearing Association Convention, Kalamazoo. 03/24/12

Coyle, J.L., (2012). Dysphagia Treatment: What Are We Doing and Why Are We Doing It? Short Course, Ohio Speech Language and Hearing Association Convention, Columbus, 03/09/12

Coyle, J.L., (2012). What's Wrong With My Patient? Seminar. Southwestern Pennsylvania Speech Language Hearing Association meeting "ASHA Revisited"; 02/2012. (this was an invited local presentation of the November 2011 ASHA seminar).

Coyle, J.L., (2011). Aspiration pneumonia in the acute care setting; how much water is too much? Children's Institute of Pittsburgh Grand Rounds, December 14, 2011.

Coyle, J.L., (2011)*. What's Wrong With My Patient? Understanding Diseases and Tests 2011. American Speech Language and Hearing Association Convention, November 2011, San Diego. (Two hour seminar)

Lefton-Greif, M., & **Coyle, J.L., (2011)*.** Dysphagia with aspiration, and the lung across the lifespan. American Speech Language and Hearing Association Convention, November 2011, San Diego. (Two hour seminar)

Logemann, J.A., Robbins, J.A., Martin-Harris, B.M., **Coyle, J.L., (2011).** Meet the Masters Symposium: "Connecting the Dots between MBS Evaluation and Treatment." Lecture title: The Modified Barium Swallow: The Diagnostic Time Machine." November, 2011. San Diego

Coyle, J.L., (2011). Evidence based clinical decision making in dysphagia management. Kansas Speech Language Hearing Association Convention, September 17, 2011; Kansas City.

Coyle, J.L., (2011). Pulmonary disease and aspiration pneumonia: A primer for the SLP. Kansas Speech Language Hearing Association Convention, September 17, 2011; Kansas City.

Coyle, J.L., (2011). Aspiration pneumonia and dysphagia in the acute care setting. Otolaryngology Grand Rounds, University of Pittsburgh Medical Center, 07 September 2011.

Coyle, J.L., (2011). What's wrong with my patient? Medical Speech Language Pathology in the acute and intensive care setting. July 2011; St. Vincent Medical Center, Hartford, CT.

Coyle, J.L., (2011). Popular and controversial dysphagia treatments: balancing risk using evidence. Karlsbad Dysphagia Forum, Karlsbad Dysphagia Center, Langsteinbach, Germany, April, 2011 (one hour seminar)

Coyle, J.L., (2011). Dysphagia and Aspiration Pneumonia. Karlsbad Dysphagia Forum, Karlsbad Dysphagia Center, Langensteinbach, Germany. April 2011

(three 3-hour workshops).

Coyle, J.L., (2010 and 2011). Dysphagia Practice: Aspiration Pneumonia and the Role of the Speech-Language Pathologist. September, 2010; October, 2010; November 2010, March 2011, April 2011, May 2011, October 2011, November 2011. Multiple sites. (six hour seminar)

Coyle, J.L., (2010). Aging and Dysphagia. Multi speaker two-day workshop. December 2010, Las Vegas

Langmore, S.E., Marik, P.E., Shay, K., Goldsmith, T., **Coyle, J.L., (2010).** The Role of Oral Care on Aspiration Pneumonia. Meet the Masters Symposium. Philadelphia, PA. November, 2010.

Coyle, J.L., (2010)*. What's Wrong With My Patient? Understanding Diseases and Test Results. Seminar, American Speech language and Hearing Association Convention, Philadelphia, Pa. Seminar 2 hours. November 2010.

Coyle, J.L., & Leslie, P. (2010). Food for Thought. Workshop on Interdisciplinary community management of dysphagia. Durham, U.K., August.

Coyle, J.L., Naas, J., & Leslie, P. (2009). Symposium on Aging and Dysphagia. 2-day conference; Johnson City, TN.

Coyle, J.L. (2010). Aspiration Pneumonia and the Role of the Speech Language Pathologist. One day workshop/conference. Pittsburgh, PA

Logemann, J.A., Shaker, R., Hind, J.A., Graner, D., **Coyle, J.L., Daniels, S.K., Brush, J., (2009).** Dysphagia in the Elderly: Choosing Effective Interventions to Ensure Positive Patient Outcomes. Topic of my lecture: Differential diagnosis of pneumonia and other pulmonary diseases common in hospitalized adults.

Mackay, L., Murray, J.T., Hind, J., Martin-Harris, B.J., **Coyle, J.L., & Easterling, C. (2009).** Dysphagia Propulsion Lab. Meet the Masters Symposium. Northwest Imaging/Bracco Pre-Convention Seminar, New Orleans, LA.

Steele, C., **Coyle, J.L., Leslie, P., (2009)*.** The Future of our Specialty: Clinicians Designing Good Dysphagia Research. American Speech Language Hearing Association 2009 Convention. New Orleans, LA.

Coyle, J.L., & Brady, S., (2009)*. Pulmonary Disease and Advanced Management of the Tracheostomy/Ventilator Dependent Patient. American Speech Language Hearing Association 2009 Convention. New Orleans, LA.

Coyle, J.L., (2009)*. Zenker's Diverticulum. American Speech Language Hearing Association 2009 Convention. New Orleans, LA.

Coyle, J.L. (2009). Deciphering the Videofluoroscopic Swallowing Study:

Connecting the Dots. Pennsylvania Speech Language Hearing Association 2009 Convention. 3.0 hours

Coyle, J.L. (2009). Pneumonia, Aspiration Pneumonia, and Pulmonary Diseases. ASHA Health Care Institute, Bethesda, MD, 04/2009.

Coyle, J.L. (2009). Biomechanical Causes of Bolus Misdirection. ASHA Health Care Institute, Bethesda, MD, 04/2009.

Coyle, J.L. (2009). Clinical Case Studies: Adult dysphagia in a Community Hospital. ASHA Health Care Institute, Bethesda, MD, 04/2009.

Coyle, J.L., (2009). Evidence Based Dysphagia Management for the Medical Speech-Language Pathologist. One Day Workshop. St. Joseph's Medical Center, Phoenix, AZ.

Langmore, S.E., & **Coyle, J.L., (2009).** Dysphagia Practice: Aspiration Pneumonia and the Role of the Speech-Language Pathologist. Dallas, TX, 03/21/2009; Boston, MA, 05/02/2009, Columbus, OH, 09/2009; Chicago, IL, 11/2009

Coyle, J.L., (2008). What is and What Isn't Aspiration Pneumonia. Seminar, American Speech Language and Hearing Association Convention, Chicago, IL.

Steele, C., **Coyle, J.L.,** Daniels, S., Easterling, C., Lefton-Greif, M., Martin-Harris, B.J., (2008). Meet the Masters Symposium: Current Development in the Management of Dysphagia. Chicago, IL.

Coyle, J.L., (2008). Ventilation, Respiration, & Pulmonary Diseases: Dysphagia-Related or Not? Southwest Pennsylvania Speech Language and Hearing Association Meeting, Pittsburgh.

Coyle, J.L., (2007)*. Mitigating Dysphagia & Its Adverse Health Sequelae: A Meta-Analysis. Technical Research Session, American Speech Language Hearing Association Convention, Boston.

Coyle, J.L., (2007)*. sEMG Produces More Consistent Immediate Training Effect for Mendelsohn Maneuver. Technical Research Session, American Speech Language Hearing Association Convention, Boston.

Skoretz, S., & **Coyle, J.L., (2007)*.** Assessment of Patients with Tracheostomy: Dispelling The Myths. Seminar, American Speech Language Hearing Association Convention, Boston.

Leslie, P., Messick, C., **Coyle, J.L., (2007)*.** Why a Clinical Doctorate in Speech-Language Pathology? Seminar, American Speech Language Hearing Association Convention, Boston.

Coyle, J.L., (2007)*. Ventilation, Respiration, & Pulmonary Diseases: Dysphagia-Related or Not? Seminar, American Speech Language Hearing Association Convention, Boston.

Coyle, J.L., Easterling, C., Lefton-Grief, M., (2006)*. Evidence based case presentations by board recognized specialists. American Speech Language Hearing Association Convention, Miami.

Coyle, J.L., (2006). Evidence based management of swallowing disorders. Pennsylvania Speech Language Hearing Association Convention, Valley Forge, PA.

Coyle, J.L., (2006). Evidence based practice in the management of adult swallowing disorders. Reading Hospital and Medical Center Conference, Reading PA.

Coyle, J.L., and Martin-Harris, B.J., (2005)*. Pulmonary and upper aerodigestive tract interactions: breathing and swallowing coordination. American Speech Language Hearing Convention, San Diego.

Leslie, P., **Coyle, J.L.,** (2005)*. Critical appraisal of evidence, Part I and II. American Speech Language Hearing Convention, San Diego.

Coyle J.L., McCullough, G., (2005)*. Clinical indicators of improvement: measuring the effects of swallowing treatment. American Speech Language Hearing Convention, San Diego.

Coyle, J.L., (2005). Evidence based practice in the management of swallowing disorders. Illinois Speech Language Hearing Convention, Chicago.

Coyle, J.L., (2005). Assessment and Management of Adult Dysphagia. American Association of Neuroscience Nurses, Society of Otolaryngology and Head and Neck Nursing, Southwest PA division; annual conference. Pittsburgh.

Coyle, J.L., (2005). Evidence Based Practice in the Management of Oropharyngeal Dysphagia. Illinois Speech Language Hearing Convention: Chicago, IL.

Coyle, J.L., (2003). Evidence Based Treatment Selection in Speech Language Pathology. Southwestern Pennsylvania Speech Language Hearing Association annual meeting: Pittsburgh, PA.

Coyle, J.L., (2003). Screening, Assessment and Management of Dysphagia in the Medical Setting. Pennsylvania Occupational Therapy Association Convention, Pittsburgh.

Coyle, J.L., (2003). Evidence Based Clinical Practice in the Medical Setting. AAC Institute Annual Meeting, Pittsburgh, PA

Coyle, J.L., (2002). Management of Oropharyngeal Dysphagia in the Medical Setting. University of Pittsburgh, Pittsburgh PA.

Coyle, J.L., (2002). Oropharyngeal Dysphagia Research Update. University of Texas M.D. Anderson Cancer Center, Houston TX.

Coyle, J.L., (2002). Southwestern Pennsylvania Speech Language Hearing Association annual conference, Pittsburgh, PA.

Messick CK, **Coyle J.L.** (2001)*. Enhancing teaching in the clinical setting: strategies for success. Seminar at American Speech Language Hearing Association convention, New Orleans.

Coyle J.L. (2001)*. Single subject design in oropharyngeal dysphagia: producing the evidence. Technical research presentation, American Speech Language Hearing Convention, New Orleans.

Coyle J.L. (2000). The use of questioning strategies in professional training of speech pathology and audiology students in the clinical setting. University of Pittsburgh, Communication Sciences and Disorders Supervisors' Conference, Pittsburgh, PA

Robbins JA, Hind JA, **Coyle J.L.** (1999)*. Secondary Gains from Clinical Trials. Seminar at ASHA Convention, San Francisco, CA.

Logemann J.L., **Coyle J.L.**, Yorkston K., Lauter J. (1998)*. Information from clinical trials to help in your profession. Seminar at ASHA Convention, San Antonio.

Robbins JA, **Coyle J.L.**, Dengel GA, Kennell T, (1998)*. MRI assessment of lingual sarcopenia. Poster, Dysphagia Research Society, New Orleans.

Coyle, J.L., (1997). Videofluoroscopic Interpretation. Institute in Instrumental Assessment of Adult Oropharyngeal Dysphagia, Annual Convention of the American Speech Language Hearing Association, Boston MA. Peer reviewed.

Coyle, J.L., (1997). Diagnosis and Management of Oropharyngeal Dysphagia. One day workshop: St. Louis, MO

Coyle, J.L., (1997). Beginning and Advanced Diagnosis and Management Of Oropharyngeal Dysphagia. One day workshop: Dallas TX.

Coyle, J.L., (1996). Overview of Swallowing Disorders for Dietitians, Nutrition and Food Service Specialists. University of Wisconsin, Madison, Department of Continuing Education.

Dengel GA, Robbins JA, **Coyle J.L.**, Sonies B, (1996)*. Hyoid Rotation During

Swallowing. Poster, Dysphagia Research Society, Aspen, CO.

Sindberg HA, **Coyle J.L.**, (1995)*. Attention training following traumatic brain injury: a case study. Technical session. ASHA convention, Orlando, FL.

Coyle, J.L., Robbins, J.A., Rosenbek, J.C., Roecker, E.B., and Wood, J.L., (1995)*. Use of the penetration aspiration scale in the differential diagnosis of dysphagia. Technical session. ASHA convention, Orlando, FL.

Coyle, J.L., (1995). Workshop in diagnosis and management of adult acquired dysphagia. Royal University Hospital, Saskatoon, Saskatchewan, Canada.

Coyle, J.L., (1994): Workshop in diagnosis and management of dysphagia. St. John's Regional Medical Center, Oxnard, CA.

Coyle, J.L., Robbins, J.A., Roecker, E.B., Harari, P.M., (1994)*. Changes in bolus velocity during swallowing following definitive radiotherapy for head and neck cancer. Technical Session, American Speech Language Hearing Association Convention, New Orleans, LA.

RESEARCH

Grant Support

A. Current Grant Support:

1. Grant Number: 2 R01 HD074819-04. National Institutes of Health, Eunice Kennedy Shriver National Institute of Child Health and Human Development; 08/01/2018 – 07/31/2023.

Title: Co-principal investigator. (PI in Department of Communication Sciences and Disorders)

Study Title: The Aspirometer: A noninvasive tool to detect swallowing safety and efficiency. (Renewal of 1 R01 HD074819-01).

% Effort: 25%

2. Grant Number: 1R01HD092239-0. National Institutes of Health, Eunice Kennedy Shriver National Institute of Child Health and Human Development. (PI: E. Sejdic); 08/15/2017 – 06/30/2021.

Title: Co-investigator. (PI in Department of Communication Sciences and Disorders)

Study Title: Instrumental screening for dysphagia by combining high-resolution cervical auscultation with advanced data analysis tools to identify silent dysphagia and silent aspiration.

% Effort: 25%

3. Grant Number: National Science Foundation Career Award 1652203 (PI: E. Sejdic); 07/2017 – 06/2022.

Title: Co-investigator. (PI in Department of Communication Sciences and Disorders)

Study Title: Advanced data analytics and high-resolution cervical auscultation can accurately predict dysphagia.

% Effort: 0% (grant funds one full-time doctoral student for 35 months – 7 months/year for 5 years).

B. Prior Grant Support:

1. Grant Number: National Institutes of Health; Eunice Kennedy Shriver National Institute of Child Health and Human Development, 1RO1HD074819-01. 07/01/2013-06/30/2017.

Title: Co-investigator (PI in Department of Communication Sciences and Disorders)

Study Title: The Aspirometer: A noninvasive tool to detect swallowing safety and efficiency.

% Effort: 25%

2. Grant Number: National Institute on Deafness and Other Communication Disorders, National Institutes of Health (DC03206), 1997-1999.

Title: Regional Principal Investigator.

Study Title: Randomized Investigation of the Effects of Two Interventions for Liquid Aspiration: Short- and Long-Term Effects.

% Effort: 10%.

Other Research

- 1. Oral colonization in acute care settings.** (unfunded study). University of Pittsburgh, 2017. Co-investigator. Ongoing.
- 2. Effect of progressive resistive lingual exercise on swallowing function in patients with head and neck cancer treated with radiation.** (unfunded study). University of Pittsburgh. 2016 – present. Co-investigator.
- 3. MOST protocol:** progressive resistive exercise device mediated lingual strengthening; unfunded multi-site trial through University of Wisconsin Madison

Swallowing Research Lab.

4. **Lingual prosthesis preliminary study:** advising engineering and Otolaryngology faculty in research methods for measurement of lingual pressure generation in mechanical mode.
5. **Assessment and modification of swallow for eustachian tube function.** UPP Academic Foundation Grant (submitted 04/2017). (C. Alper MD, PI).

JOURNAL REFEREEING

2019: Guest Editor, *Journal of Speech, Language, Hearing Research*

2009, 2011, 2012, 2014 - present: *American Journal of Speech Language Pathology. Editorial Board Member, 2017 – present.*

2018, 2019: *Journal of Speech, Language and Hearing Research*

2018: *Nature Scientific Reports*

2000, 2001, 2005, 2006, 2008, 2009 - 2018: *Dysphagia.*

2018: *Critical Care Nursing*

2018: *Progress in Transplantation*

2016: *Human Brain Mapping*

2015: *Head and Neck*

2015 - 2016: *Journal of Critical Care*

2014 - 2017: *American Journal of Physical Medicine and Rehabilitation*

2013, 2016, 2017, 2018: *The Laryngoscope*

2010, 2013, 2014: *Clinical Otolaryngology*

2013, 2014: *Journal of the American Geriatrics Society*

2011, 2012. *Folia Phoniatica et Logopaedica*

2010 - 2017. *Archives of Physical Medicine and Rehabilitation (Elite Reviewer Recognition, 2015)*

2011. *Journal of Telemedicine and Telecare*

2006, 2007, 2010, 2011, 2012, 2014, 2015: *Journal of Speech Language and*

Hearing Research.

2010: *Journal of Gerontology: Medical Sciences*

2005 – 2015: *Perspectives on Swallowing and Swallowing Disorders*

2008: *Journal of Rehabilitation Research and Development.*

OTHER SERVICE

2020: Program Committee, ASHA convention: Swallowing and Swallowing disorders.

2019-2020: subject matter expert, ASHA Aerodigestive disorders Practice Portal Page (published 01/2020).

2020: Faculty, Dysphagia Research Society Annual Meeting

2019: Program Committee, ASHA convention (Academic and Models of Clinical Education)

2019: Peer review, ASHA Aerodigestive Disorders Portal

2018: Dysphagia Research Society program committee

2018: Dysphagia Research Society annual conference faculty

2017: Faculty, Dysphagia Research Society Annual Meeting

2017 - present: Editorial Board Member, American Journal of Speech Language Pathology

2015: External grant reviewer, PSI Foundation, Toronto, Ontario, Canada

2015: Reviewer, ASHA Portal Page

2015 to present: Ad Hoc Committee reviewing grant proposals for groups seeking to establish Specialty Board Certification boards. American Speech Language Hearing Association.

2014: Pennsylvania Speech Language Hearing Association Task Force: Speech Language Pathology Licensure Act.

2013-2016: Treatment Taxonomy Task Force. American Speech Language Hearing Association.

2013: Program Committee, 2014 Dysphagia Research Society annual meeting.

2010-present: member of PRAXIS examination National Advisory Committee, Speech Language Pathology national qualifying examination.

2000, 2005, 2011, 2012: Program Committee, American Speech Language and Hearing Association Convention. Topic Area Swallowing and Swallowing Disorders

2007- 2013: Elected Board Member, American Board of Swallowing and Swallowing Disorders, American Speech Language and Hearing Association

2009-2013: Education committee chair, American Board of Swallowing and Swallowing Disorders, American Speech Language and Hearing Association.

2006 - 2009: Education committee member, American Board of Swallowing and Swallowing Disorders.

LIST of CURRENT RESEARCH INTERESTS

1. Instrumental Methods of Swallowing Screening and Signal Processing
2. Effects of Behavioral Interventions on Biomechanical Measures of Oropharyngeal Swallowing Physiology in Various Dysphagic Populations.
3. Application of Evidence Based Methods in Speech Language Pathology.
4. Neuroscientific Principles of Upper Aerodigestive Tract Function.
5. Pathophysiology and Prevention of Aspiration Pneumonia
6. Dysphagia Following Organ Transplantation

SERVICE

Departmental/School/University Committee Participation-Current

Office of the Dean, SHRS. Ad hoc promotion review committee. 2020

Office of the Dean, SHRS. Career Tracks Task Force. 2019 – present

Office of the Dean, SHRS. Ad hoc promotion review committee. 2019

SHRS Alumni Awards Selection Committee

Office of the Chancellor, University of Pittsburgh.

Chancellor's Distinguished Teaching Award Selection Committee. 2018 - present

Office of the Provost, University of Pittsburgh.

Advisory Council on Instructional Excellence. 2017-present.

Department of Communication Sciences and Disorders, University of Pittsburgh

CSD PhD Program Advisory Council (2020 – present)

CSD PhD Admissions Committee (2020 – present)

CSD Admissions Committee (SLP program) (2018 – present)

Director of Student Financial Aid and Awards (2009 – present)

CSD Teaching Assistant/Fellow Coordinator (2018 – present)

CSD Faculty search committee (several) 2018 – 2019

Program Development (Clinical Doctorate in Speech Language Pathology)

CSD Department Chair Search Committee 2017-2018

Alternate – SHRS PhD Research Scholarship Committee

Faculty CScD Recruitment Committee

Master's Program Curriculum reorganization committee

Department of Otolaryngology, School of Medicine

Research committee

Community and Professional Service

2012. Peer reviewer, medical records (Speech Language Pathology):

University of Pittsburgh Medical Center.

1999-present: Provision of Speech Language Pathology clinical service:

University of Pittsburgh Medical Center (UPMC Presbyterian University Hospital; UPMC Montefiore University Hospital; UPMC Eye and Ear Institute; UPMC Department of Otolaryngology Swallowing Disorders Center; UPMC Passavant Medical Center).