

## CURRICULUM VITAE

### BIOGRAPHICAL

**Name:** Roxann Diez Gross

**Birth Place:** Tampa, FL

**Citizenship:** USA

**Business Address:** The Children's Institute  
1405 Shady Avenue  
Pittsburgh, PA 15217

**Business phone:** 412-420-2249

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### EDUCATION AND TRAINING

#### UNDERGRADUATE:

1984 Duquesne University, BA, Speech Pathology/Audiology  
Honors: magna cum laude

#### GRADUATE:

1986 University of Pittsburgh, MA, Communication Disorders  
Honors: Class Representative, Faculty of Arts and Sciences

2001 University of Pittsburgh, Ph.D., Communication Science & Disorders  
Dissertation: The Physiologic Effects of Varying Lung Volume on Deglutition

#### POST-GRADUATE:

1986 to 1987 Clinical Fellowship Year - Harmarville Rehabilitation Center, Pittsburgh, PA

### ACADEMIC APPOINTMENTS AND POSITIONS

1-07-2011 to present Adjunct Assistant Professor  
University of Pittsburgh  
School of Health and Rehabilitation Sciences  
Department of Communication Science and Disorders  
Pittsburgh, PA

9-2005 to 1-07-2011 Assistant Professor  
University of Pittsburgh  
School of Medicine  
Department of Otolaryngology  
Pittsburgh, PA

7-2006 to 1-2011	Assistant Professor University of Pittsburgh School of Health & Rehabilitation Sciences Department of Communication Science & Disorders Pittsburgh, PA
7-2001 to 6-2006	Adjunct Assistant Professor and Network Supervisor University of Pittsburgh School of Health & Rehabilitation Sciences Department of Communication Science & Disorders Pittsburgh, PA
8-1999 to 8-2000	Pre-Doctoral Associated Health Rehabilitation Research Fellow VA Pittsburgh Healthcare System University Drive Pittsburgh, PA
1999 to 2001	Course Instructor Duquesne University Rangos School of Health Sciences Department of Speech Language Pathology School of Health Sciences Pittsburgh, PA
1998 to 1999 (Sept-May)	Teaching Fellow School of Health Sciences & Rehabilitation, Department of Communication Science and Disorders University of Pittsburgh Pittsburgh, PA
1996 to 1997 (Sept-May)	Teaching Fellow School of Health Sciences & Rehabilitation, Department of Communication Science and Disorders University of Pittsburgh Pittsburgh, PA
1996 to 1996 (Jan-April)	Course Instructor School of Health Sciences & Rehabilitation, Department of Communication Science and Disorders, University of Pittsburgh Pittsburgh, PA
1992 to 1995	Clinical Instructor/Supervisor Faculty of Arts and Sciences Department of Communication Science and Disorders University of Pittsburgh Pittsburgh, PA
5-01-1995 to 5-01-1996	Graduate Student Researcher Voice Physiology Laboratory Department of Communication Science & Disorders University of Pittsburgh Pittsburgh, PA

**NON-ACADEMIC:**

7-13-2012 to present                      Director of Research  
The Children's Institute of Pittsburgh  
1045 Shady Avenue  
Pittsburgh, PA

1-10-2011 to 7-13-2012                      Research Manager  
The Children's Institute of Pittsburgh  
1405 Shady Avenue  
Pittsburgh, PA

1-01-2012 to present                      Institutional Review Board and Human Subject Protection Administrator  
The Children's Institute of Pittsburgh  
1405 Shady Avenue  
Pittsburgh, PA

9-2005 to 1-07-2011                      Director, UPMC Swallowing Disorders Center  
Department of Otolaryngology  
Eye & Ear Institute  
University of Pittsburgh  
Pittsburgh, PA

8-1999 to 9-2005                      Research Speech-Language Pathologist  
VA Pittsburgh Healthcare System  
University Drive  
Pittsburgh, PA

2-27-1996 to 2011                      Research Consultant and Speech-Language Pathologist (on call)  
The Children's Institute of Pittsburgh  
6301 Northumberland Street  
Pittsburgh, PA

2-27-1996 to 7-02-2001                      Speech-Language Pathologist  
UPMC Rehabilitation Hospital  
1405 Shady Avenue  
Pittsburgh, PA

2-15-1995 to 12-31-1995                      Speech-Language Pathologist (Private contractor)  
Forbes Regional Hospital  
McGinnley Road  
Monroeville, PA

2-15-1995 to 12-31-1995                      Speech-Language Pathologist (Private contractor)  
Heritage-Shadyside Nursing and Rehabilitation Center,  
Phillips Avenue  
Pittsburgh, PA

1990-1995                      Speech-Language Pathologist  
University of Pittsburgh Medical Center  
Lothrop Street  
Pittsburgh, PA

1986-1990                      Speech-Language Pathologist  
Harmarville Rehabilitation Center  
Guys Run Rd.  
Pittsburgh, PA

1985 to 1985 (May-Aug.)	Speech Pathology Intern Highland Drive VA Hospital Pittsburgh, PA
1980-1983	Laboratory Technician Duquesne University Department of Chemistry Pittsburgh, PA
1979-1980	Laboratory Technician PPG Industries Coating and Resin Research Allison Park, PA
1976-1979	Senior Laboratory Technician, Materials Consultants and Laboratories, Inc. Monroeville, PA

### CERTIFICATION AND LICENSURE

#### SPECIALTY CERTIFICATION:

1988	Certificate of Clinical Competence American Speech Language Hearing Association
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#### PROFESSIONAL LICENSURE:

1988	Speech-Language Pathologist State Board of Examiners in Speech-Language-Hearing, PA
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### MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

1986-Present	American Speech Language Hearing Association
2003-Present	American Physiological Society
2006-Present	Dysphagia Research Society
2008-2010	American Academy of Otolaryngology – Head & Neck Surgery

### HONORS AND AWARDS

2016	Step above award, The Children' Institute
2008	Keynote Speaker, 10 <sup>th</sup> Chinese Society of Physical Medicine and Rehabilitation National Conference, Guangzhou, China,
2007, 2009, 2010, 2011, 2012, 2013, 2014, 2016	American Speech-Language-Hearing Association Award for Continuing Education
2004	VA Performance award for teamwork
2001	VA Performance award for teamwork
1999-2000	VA Pre-doctoral research fellowship

### PATENTS

Method and apparatus for quantifying pharyngeal residue and aspiration, Application number 11/153,907, 1-16-2005. Effective June 30, 2009. **Patent number 7555329.**

## PUBLICATIONS

### Peer-reviewed research articles

1. Dettlebach MA, **Gross RD**, Mahlmann J, Eibling DE, 1995, The Effects of the Passy Muir Valve on Aspiration in Patients with Tracheostomy. *Head & Neck*, 17, 297-302.
2. Eibling DE, **Gross RD**, 1996, Subglottic Air Pressure: A Key Component of Swallowing Efficiency. *Annals of Otolaryngology & Laryngology*, 105 (4), 253-258.
3. **Gross RD**, Mahlmann J, Grayhack JP, 2003, Physiologic Effects of Tracheostomy Tube Occlusion on the Pharyngeal Swallow, *Annals of Otolaryngology & Laryngology*, 112 (2), 143-152.
4. **Gross RD**, Atwood CW, Grayhack JP, Shaiman S, 2003, Lung volume effects on pharyngeal swallowing physiology, *Journal of Applied Physiology*, 95, 2211-2217.
5. **Gross RD**, Steinhauer KM, Zajac DJ, Weissler MC, 2006, Direct measurement of subglottic air pressure while swallowing, *Laryngoscope*, 116 (5), 753-761.
6. **Gross RD**, Atwood CW, Ross SB, Eichhorn KA, Olszewski JW, Doyle PJ, 2008, The coordination of breathing and swallowing in Parkinson's disease, *Dysphagia*, Jun., 23(2), 136-145.
7. Robbins J, Butler S, Daniels S, **Gross RD**, Langmore S, Lazarus C, Martin-Harris B, McCabe D, Musson N, Rosenbek J. 2008, Neural Plasticity, Swallowing and Dysphagia Rehabilitation: Translating Principles of Neural Plasticity into Clinically Oriented Evidence, *J Speech Lang Hear Res*. Feb;51(1):S276-300.
8. **Gross RD**, Atwood CW, Ross SB, Olszewski JW, Eichhorn KA, 2009, The Coordination of Breathing and Swallowing in Chronic Obstructive Pulmonary Disease, *Am J Respiratory and Critical Care Med.*; Apr 1;179(7):559-65.
9. **Gross, RD**, Carrau, RI, Slivka, WA, Gisser, RG, Smith, LJ, Zajac, DJ, Sciruba, FC, 2012, Deglutitive Subglottic Air Pressure and Respiratory System Recoil, *Dysphagia*, Vol 27, (4): 452-459.
10. Madden, LL, **Gross RD**, Smith, and LJ. 2015, Bilateral Eagle syndrome causing dysphagia, *Ear Nose and Throat Journal*, Feb;94(2):69-70.
11. **Gross, RD**, Gisser, RG, Hartman, K, Maheshwary, R, Cherpes, GL. Discovery of subclinical dysphagia in children and adults with Prader-Willi syndrome. 2015,(in review)

### Invited Publications

1. **Gross RD**. Subglottic Air Pressure and Swallowing, 2009, *Perspect Swal Swal Dis (Dysph)*18: 13-18. Doi:10.1044/sasd18.1.13
2. **Gross, RD**. The Importance of Lung Volume at Swallow Onset: a clinician's journey, *Irish Association of Speech & Language Therapists UPDATE Magazine*, 2014.
3. **Gross, RD**. Lung volumes and their significance for pharyngeal and esophageal swallowing function, 2014 *Perspect Swal Swal Dis (Dysph)*. 2014;23(3):91 doi:10.1044/sasd23.3.91.
4. **Gross, RD**, Prigent, H. Chronic Obstructive Pulmonary Disease and Occult Aspiration: A Review of the Recent Literature, *Curr Phys Med Rehabil*, 2015, December 2015, Volume 3, Issue 4, pp 280-286.

### Book Chapters

1. Mason M., 1993, Voicing, in *Clinical Speech Pathology for the Tracheostomized and Ventilator Dependent Patient*. Chapter edited by Ward K. and **Gross RD**.

2. **Gross RD**, 1996, Swallowing Rehabilitation, in Cancer of the Head and Neck, Third Edition. Eds. Myers and Suen. W.B. Saunders, New York.
3. **Gross RD**, Eibling DE, 1998, Tracheotomy/Endotracheal Intubation, in Comprehensive Management of Swallowing Disorders. Eds. Carrau and Murry. Singular, San Diego.
4. **Gross RD**, Eibling DE, 1998, Passy-Muir Valve/Decannulation, in Comprehensive Management of Swallowing Disorders. Eds. Carrau and Murry. Singular, San Diego.
5. **Gross RD**, Carrau RL, 2009, The KayPentax Swallowing Workstation. In: Carrara-de Angelis J, Barros, editors. Tratado Da Degluticao E Disfagia. Livraria e Revinter Ltda.
6. **Gross RD**, Rehabilitation of Swallowing in Medicine of the Head and Neck, Chrobok, V (ed.). Tobias, Havlickuv Brod, Czech Republic, 2009.
7. Tedla, M, **Gross RD**, Bedside Swallow in Medicine of the Head and Neck, Chrobok, V (ed.). Tobias, Havlickuv Brod, Czech Republic, 2009.
8. **Gross RD**, 2010, Carotid Endarterectomy in Dysphagia in Rare Conditions, Jones HN & Rosenbeck JC (eds.), Plural Publishing.
9. **Gross RD**, 2010, Management of a Patient with Advanced Head and Neck Cancer in Communication Disorders: A Case-Based Approach: Stories from the Front Line, Chabon S & Cohn E (eds.), Allyn & Bacon.
10. Smith, LJ, **Gross, RD**, 2013, Upper Digestive Tract Anatomy and Physiology in "Head and Neck Surgery, Otolaryngology" 5th Edition, Byron J. Bailey, MD,(ed). Lippincott Williams and Wilkins, Philadelphia, PA.
11. **Gross, RD**, Enloe, L, Reyes, S., 2016, Passy-Muir Valve/Decannulation, in Comprehensive Management of Swallowing Disorders, 2ed, Eds. Carrau, Murry, Howell. Singular, San Diego.

### **Published Abstracts**

1. **Gross RD**, Dettelbach MA, Eibling DE, Zajac D, 1994, "Measurement of subglottic air pressure during swallowing in a patient with tracheostomy." *Otolaryngology, Head Neck Surgery*, 111 (2), 133.
2. Atwood C, **Gross RD**, Ross SB, Olszewski JE, Doyle PJ. "Deglutitive Apnea Length in patients with COPD, Parkinson's Disease and Normals." *Am J Respir Crit Care Med*, 2003, 167:A787.
3. **Gross RD**, Horne RS, Atwood CW, 2006, "Novel computer program that quantifies pharyngeal residue." *Dysphagia*, 21 (4), 292.
4. **Gross RD**, Atwood C, Ross SB, Olszewski JW, Eichhorn KA, Doyle PJ. "Coordination of Respiratory Cycle and Deglutition in COPD vs. Health Controls." *Am J Respir Crit Care Med*, 2006, 173: A846
5. **Gross RD**, Atwood C. "Safety of tracheostomy speaking valve use during sleep." *Otolaryngology – Head and Neck Surgery*, 2007 August, 137(2), 209.
6. **Gross RD**, Tedla M, Ross SB. "Breathing-swallowing pattern in tracheostomy vs. controls." *Otolaryngology – Head and Neck Surgery*, 2007 August, 137(2) 170.
7. **Gross RD**, Carrau RL, Slivka W, Smith LJ. "Mechanism Producing Subglottic Air Pressure While Swallowing," *Otolaryngology – Head and Neck Surgery*, 2008 August, 139 (2), 187.
8. **Gross, RD**, Carrau, RL, Slivka, WA, Smith, LJ, Atwood, CW and Sciruba, FC. "Subglottic Air Pressure While Swallowing Dependent on Respiratory System Recoil Pressure." *Am. J. Respir. Crit. Care Med.*, Apr 2009; 179: A1463.

## PROFESSIONAL ACTIVITIES

### TEACHING:

Master's thesis committee member and on-site advisor, 2016, Dept of Communication Science and Disorders, University of Pittsburgh. Characteristics of epiglottic inversion in children with cerebral palsy.

Examiner, Master's thesis, 2016, University of Auckland, Quantitative objective videofluoroscopic swallowing measures in children.

Course Director: 2015 to present. Interdisciplinary Grand Rounds in Pediatric rehabilitation. CME and CEUs are given.

Mentor for independent study in pediatric dysphagia research 2010,2011,2012,2013 Doctor of Clinical Science Program, Dept. of Communication Science and Disorders, University of Pittsburgh.

Clinical writing III Mentor 2013 for Doctor of Clinical Science Program, Dept of Communication Science and Disorders, University of Pittsburgh.

Guest Lecturer on tracheostomy tubes, 2010, 2011, Pulmonary and Critical Care Fellowship Program, University of Pittsburgh School of Medicine, Division of Pulmonary, Allergy, and Critical Care Medicine.

Guest Lecturer, 2011, Dysphagia Course, Department of Speech-Language Pathology, Duquesne University.

Directed study in tracheostomy tubes and the role of the Speech Language Pathologist, 2010, Speech Science undergraduate program, Dept. of Communication Science and Disorders, University of Pittsburgh.

Directed study in tracheostomy tubes and ventilators, 2012, Doctor of Clinical Science Program, Dept. of Communication Science and Disorders, University of Pittsburgh.

Course Director: 2005 to 1-07-2011

Interdisciplinary Grand Rounds, monthly lectures on topics related to dysphagia and attended by speech pathology graduate students, speech pathologists and physicians. CME and CEUs are awarded to attendees.

Specialty Care Clerkship for 3<sup>rd</sup> Year Medical Students: 2008 to 1-07-2011

Monthly lectures on swallowing function. Each week a student also observes evaluation and therapy in the Swallowing Disorders Center, University of Pittsburgh School of Medicine.

Clinical experience course: 2010

Preceptor for first year medical students in Swallowing Disorders Center, University of Pittsburgh School of Medicine.

Evaluation and Care of Dysphagia: April 16, 2008

Training presented as live web cast via Cancer Centers Infonet, University of Pittsburgh Medical Center, Herberman Conference Center; Pittsburgh.

Resident Didactics Lecture, Department of Otolaryngology, University of Pittsburgh: 2008 to 1-2011

Sub-glottic pressure and the impact of tracheostomy on swallowing, University of Pittsburgh Department of Otolaryngology.

Network supervisor for Speech Pathology graduate students, University of Pittsburgh, 2001 to 2005.

Monthly lecture on tracheostomy tubes given to VA Critical Care Medicine rotation from 2003 to 2005.

Course instructor for graduate Dysphagia class, Duquesne University, 1999 to 2001.

Teaching Fellow for undergraduate Anatomy and Physiology and Speech Science, 1998-1999 school year. University of Pittsburgh, Department of Communication Sciences & Disorders.

Co-instructor of graduate Laryngectomy and Dysphagia course (Spring term 1998-1999). University of Pittsburgh, Department of Communication Sciences & Disorders.

Teaching Fellow at the University of Pittsburgh for undergraduate Anatomy and Physiology and Speech Science, 1996-1997 school year. University of Pittsburgh, Department of Communication Sciences & Disorders.

Course instructor for graduate Laryngectomy and Dysphagia course (Spring term 1995-1996). University of Pittsburgh, Department of Communication Sciences & Disorders.

**RESEARCH FUNDING:**

<b>Source/Grant Number</b>	<b>Grant Title</b>	<b>Role in Project</b>	<b>Years Inclusive</b>
Prader-Willi Syndrome Association	Characterization of esophageal transport and the effect of saliva swallows vs. liquid swallows to clear pharyngeal and esophageal stasis in persons with Prader-Willi Syndrome	Principal Investigator	2016-2017
Prader-Willi Syndrome Association	Characterization of swallowing function in persons with Prader-Willi Syndrome	Co-Principal Investigator	2013-2015
Inflammation Research Foundation	The effects of fish oil on swallowing function in head and neck cancer patients treated with chemoradiation	Principal Investigator	2007-2014
APDA Advanced Center for Parkinson's Disease Research at the University of Pittsburgh	The effects of breathing on swallowing in Parkinson's Disease	Principal Investigator	2006-2011
Parkinson Chapter of Greater Pittsburgh	Non-invasive method to predict deglutitive subglottic air pressure in persons with Parkinson's Disease	Principal Investigator	2006-2010
UPMC Competitive Medical Research Fund	Non-invasive method to predict deglutitive subglottic air pressure in persons with neurologic and respiratory disease	Principal Investigator	2006-2009
GRECC	Safety of extended Passy-Muir valve use during sleep	Co-Investigator	2004-2005
VA RR&D C2855R	Effect of Practice with Feedback on Aging Voice Motor Control and Learning	Co-Investigator	2003-2006
VA RR&D B2564R	Coordination of Breathing and Swallowing in Neurologic/Respiratory Disease	Principal Investigator	2001-2004



GRECC 000410	The Effects of Age and Stroke on Respiration and Deglutition	Co- Investigator	1999-2001
Illinois Cancer Council 91162	The Effects of Surgical Reconstruction on Speech and Swallowing	Coordinator of data collection, UPMC 1992- 1995	1992-1997
Voicing! IRB921207	The Role of the Passy-Muir Valve in Reducing Aspiration in Tracheotomized Patients	Principal Investigator	1993-1996

### Scientific Posters Presentations:

1. "A Tracheostomy Tutor: Nursing and Speech Pathology as Partners in Education." Bryce J, **Gross RD**. Scientific poster presentation, Society of Otorhinolaryngology and Head and Neck Nursing, American Academy of Otolaryngology-Head and Neck Surgery, 97th Annual Meeting, Minneapolis, MN, October, 1993.
2. "Method for the Determination of Spontaneous Drinking Volumes." Bednarik P. and **Gross RD**. Scientific poster presentation, American Speech Language Hearing National Meeting, San Francisco, CA, November 18, 1999.
3. "Safety of tracheostomy speaking valve use during sleep" Atwood CW, **Gross RD**. Scientific poster presentation, American Thoracic Society 100<sup>th</sup> International Conference, San Diego, CA, May 24, 2005.
4. "Safety of tracheostomy speaking valve use during sleep" Atwood CW, **Gross RD**. Scientific poster presentation, American Thoracic Society 100<sup>th</sup> International Conference, San Diego, CA, May 24, 2005.
5. "Safety of tracheostomy speaking valve use during sleep." **Gross RD**, Atwood C. Scientific poster presentation, American Academy of Otolaryngology – Head and Neck Surgery Annual Meeting, Washington, D.C., September 16-19, 2007.
6. "Breathing-swallowing pattern in tracheostomy vs. controls." **Gross RD**, Tedla M, Ross SB. Scientific poster presentation, American Academy of Otolaryngology – Head and Neck Surgery Annual Meeting, Washington, D.C., September 16-19, 2007.
7. "Mechanism producing subglottic air pressure while swallowing." **Gross RD**, Carrau RL, Slivka W, Smith L. Scientific poster presentation, American Academy of Otolaryngology Annual Meeting, Chicago, IL, September, 2008.
8. "Subglottic Air Pressure While Swallowing Dependent on Respiratory System Recoil Pressure." **Gross RD**. Scientific poster presentation, American Thoracic Society Annual Meeting, San Diego, VA, May 15-20, 2009.
9. "Effects of High Dose Omega-3 Fatty Acid Supplementation on Swallowing Function in Head and Neck Cancer Patients Treated with Chemoradiation. **Gross, RD**; Gisser, RG; Cable, G; Carrau, RC. Scientific poster presentation, Dysphagia Research Society Annual Meeting, Seattle, WA, March 15-16, 2013.
10. "The Effects of Intense Exercise on Daily function in Pediatric Patient with Reflex Neurovascular Dystrophy". Concilus, KM, Rumbaugh, JH, **Gross, RD**, Combined Sections Meeting of the American Physical Therapy Association, Las Vegas, NV, Feb 3-6, 2014.
11. "Discovery of Subclinical Dysphagia in Children and Adults with Prader-Willi Syndrome" **Gross, RD**, Gisser, RG, Cherpes, GL, Maheshwary, R. 23<sup>rd</sup> Annual Dysphagia Research Society meeting, Chicago, IL, March 13, 2014.
12. "Discovery of Subclinical Dysphagia in Children and Adults with Prader-Willi Syndrome" **Gross, RD**, Gisser, RG, Cherpes, GL, Maheshwary, 9<sup>th</sup> International Prader-Willi Syndrome Organization scientific conference, July 21, 2016.

## PEER REVIEW ACTIVITIES

Reviewer for:

Journal of Rehabilitation Medicine  
Journal of Applied Physiology  
Journal of Speech Language and Hearing Research  
Journal of Rehabilitation Research and Development  
Journal of Respiratory and Critical Care Medicine  
American Speech Hearing Association  
Dysphagia Journal  
Archives of Physical Medicine and Rehabilitation  
Journal of Pediatrics  
Review Editor, Frontiers of Respiratory Physiology

## CURRENT RESEARCH INTERESTS:

Quantification of residue and aspiration.  
The role of air pressure in pharyngeal swallowing function.  
The interaction between breathing and swallowing in neurologic and respiratory disease.  
The role of lung volume and respiratory cycle on esophageal function.  
Establishment of normative data for pediatric swallowing function.  
Swallowing function in persons with Prader-Willi Syndrome

## COMMITTEE MEMBERSHIP:

2016-present	Clinical Advisory Board, Prader-Willi Association, USA
2015-2016	Website, Communications & Public Relations Committee, Dysphagia Research Society,
2014-present	Ethics committee, The Children's Institute of Pittsburgh
2013-present	Outcomes committee, The Children's Institute of Pittsburgh
2012-present	Institutional Review Board Administrator, The Children's Institute of Pittsburgh
2012	2012 American Speech Language Hearing Association Convention Planning Committee: Swallowing and Swallowing Disorders.
2011	2011 American Speech Language Hearing Association Convention Planning Committee: Swallowing and Swallowing Disorders.
2011- 2012	Chair, Research Committee, The Children's Institute of Pittsburgh
2011- Present	Autism Steering Committee, The Children's Institute of Pittsburgh
2011 – Present	Compliance committee, The Children's Institute of Pittsburgh
2008	National Voice and Swallowing Liaison Committee, Communication Sciences and Disorders Research Group, ASHA, Rockville, MD
2009-2010	Faculty Interview Committee, School of Medicine, Univ. of Pittsburgh
2001 - 2005	Clinic Committee, University of Pittsburgh Communication Science & Disorders, Pittsburgh, PA

1991 - 1995 Aspiration Task Force, Western Psychiatric Institute and Clinic, Pittsburgh, PA

1997 - 2006 Research Committee, The Children's Institute of Pittsburgh

#### **SERVICE:**

Davis Phinney Foundation Living well challenge, Breathing and Swallowing lecture given and videotaped for educational use as a "webisode." Sept, 15, 2012.

Sixth annual Living Well with Parkinson's Disease weekend retreat. One of 4 invited speakers who spent the weekend with patients and their families. Aug, 12-14, 2011.

National Clinical Trials Group, National Voice and Swallowing Liaison Committee.

Parkinson's Disease Support Group: "Swallowing and Parkinson's Disease." Healthsouth Harmarville Hospital, Harmarville, PA, November 18, 2008.

Article published in HEADWAY: News on Advances in the Prevention, Detection, and Treatment of Head and Neck Cancers, UPMC Cancer Centers and University of Pittsburgh Cancer Institute: "Swallowing Disorders", January 2008.

Cover and featured article in ADVANCE magazines for Speech-Language Pathologists and Audiologists and Respiratory Care Practitioners entitled "Trach and Vents", Vol. 17, No. 42, October 15, 2007.

Parkinson's Disease Support Group of South Hills: "Swallowing and Parkinson's Disease." Pittsburgh, PA, October 10, 2007.

The Intelligence, Wheeling News, interview for article entitled "Solution Isn't Hard to Swallow." June 30, 2006.

Federal Technology Watch, interview for article entitled "Software partner sought" for patent pending technology Vol. 4 No. 22, May 29, 2006.

Appeared in "Tomorrow's Medicine Today," an episode of The *Cutting Edge Medical Report*® which aired on the Discovery Channel and focused on swallowing, tracheostomy tubes and subglottic air pressure. Dec.14, 1995.

Pittsburgh Post-Gazette, Science & Health. Interviewed by Byron Spice for article entitled "Swallowing Disorders are Hard to Stomach." Oct. 11, 1993.

#### **SELECTED SEMINARS, INVITED LECTURESHIPS, AND PEER REVIEWED SCIENTIFIC PRESENTATIONS (INTERNATIONAL INVITED LECTURES IN BOLD):**

1. "Speech and Swallowing Rehabilitation of the Tracheostomy Patient" **Gross RD**. Grand Rounds, Department of Rehabilitation Medicine, Harmarville Rehabilitation Center, Pittsburgh, PA, April 2, 1991.
2. "Bedside, Endoscopic and Fluoroscopic Evaluation of Swallow Function" **Gross RD**. Grand Rounds, Department of Rehabilitation Medicine, Harmarville Rehabilitation Center, Pittsburgh, PA. January 21, 1991.
3. "Bedside, Endoscopic, and Fluoroscopic Evaluation of Dysphagia in Adults" **Gross RD**. Grand Rounds, Cleft Palate Center, Pittsburgh, PA, April 8, 1992.
4. "The Role of the Speech Pathologist in the Management of Swallowing Disorders" **Gross RD**, given as part of Swallowing Disorders Seminar, hosted by the Digestive Disorders Center, University of Pittsburgh Medical Center, Western Psychiatric Institute and Clinic, Pittsburgh, PA, April 11, 1992.
5. "Non-Surgical Management of the Aspiring Patient" Eibling DE, **Gross RD**. Co-instruction, short course, American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting, Washington, D.C., September 15, 1992.

6. "Dysphagia in the Psychiatric Population" **Gross RD**, Eibling DE, Rogers J, Ciafre L. Teleconference given to Warren State Hospital for the Office of Education and Regional Programming , October 14, 1992.
7. "Troubleshooting Tracheostomy Tubes to Reach Speech and Swallowing Objectives" **Gross RD**. American Speech Language and Hearing Association National Meeting, San Antonio, TX, November 21, 1992.
8. "The Role of the Speech Pathologist in the Rehabilitation of Tracheostomy and Dysphagia Patients" **Gross RD**. Grand Rounds, Department of Otolaryngology, University of Pittsburgh Medical Center, Pittsburgh, PA, February 16, 1993.
9. "Dysphagia: A Comprehensive Approach" **Gross RD**, Carney, M, Ciafre, L, Workshop given at the PA Dietetic Association State Meeting, Station Square, Pittsburgh, PA, April 24, 1993.
10. "Evaluation of Swallow Function" **Gross RD**, Didactic Lectures Series, Physical and Rehabilitation Medicine, University of Pittsburgh, Pittsburgh, PA, May 20, 1993
11. "Contrasting and Comparing Tracheostomy tubes" **Gross RD**. Pulmonary ICU Conference, University of Pittsburgh Medical Center, Pittsburgh, PA, May 27, 1993.
12. "The Role of the Speech Pathologist in Trach Management-Present and Future" **Gross RD**. State University of New York at Buffalo, Erie County Medical Center, Buffalo, NY, June 3, 1993.
13. "Troubleshooting Tracheostomy Tubes to Reach Speech and Swallowing Objectives" **Gross RD**, presented as part of the Rehabilitation Medicine Lecture Series, Department of Rehabilitation Medicine, State University of New York at Buffalo, Erie County Medical Center, Buffalo, NY, June 4, 1993.
14. "Closing the Gap Between Swallowing Physiology and Treatment" **Gross RD**, The Rehabilitation Institute of Pittsburgh, Pittsburgh, PA, June 30, 1993.
15. "Tracheostomy Tube Difference and Their Impact on Speech and Swallowing" **Gross RD**, ICU Pulmonary Conference, University of Pittsburgh School of Medicine, Pittsburgh, PA, September 10, 1993.
16. "The Effect of the Passy Muir Valve on Aspiration in Patients with Tracheostomy" Dettelbach MA, **Gross RD**, Mahlman J, Eibling DE. American Academy of Otolaryngology-Head and Neck Surgery, 97th Annual Meeting, Minneapolis, MN, October 5, 1993.
17. "Rehabilitation Tracheostomy Patients: A Partnership Between Otolaryngology and Speech-Language Pathology" **Gross RD**, Eibling DE, American Speech-Language-Hearing Association National Meeting, Anaheim, CA, November 22, 1993.
18. "Diagnosis of Dysphagia" **Gross RD**, Presented as part of Lecture Series, Maxillofacial Prosthodontic Department, University of Pittsburgh School of Dental Medicine, February 25, 1994.
19. "Speech and Swallowing Rehabilitation for the Tracheostomy Patient" **Gross RD**, Seminar in Pulmonary Physiology and Medicine, Pittsburgh, PA, September 1, 1994.
20. "Measurement of Subglottic Air Pressure during Swallowing in a Patient with Tracheostomy" **Gross RD**, Dettelbach MA, Zajac, DJ, Eibling DE, Poster presentation, American Academy of Otolaryngology-Head and Neck Surgery, 98th meeting, San Diego, CA, September 20, 1994.
21. "Effective Management of Dysphagic Tracheostomized Patients: From Evaluation to Decannulation" Mason MF, **Gross RD**, Eibling DE, Oppenheimer EA, Three hour short-course presented at the American Speech Language Hearing Association National Meeting, New Orleans, LA, November 24, 1994.
22. "Subglottic Air Pressure- A Key Component in Swallowing Efficiency" Eibling DE, **Gross RD**, American Broncho-Esophagological Association 1995 Annual Meeting, Palm Springs, CA, May 5, 1995.
23. "The Physiologic Effects of Tracheostomy on Swallowing" **Gross RD**, Snyderman, CH. American Speech-Language Hearing Association National Meeting, Orlando, FL, December 9, 1995.

24. "Issues in Dysphagia" **Gross RD**, Application of the Passy-Muir Speaking Valves with Tracheostomized and Ventilator Dependent Patients: A Team Approach. University Hospital, Denver, CO, January 19, 1996, Phoenix, AZ, February 9, 1996.
25. "EMG Biofeedback in Swallowing." **Gross RD**, Speech Pathology Colloquium sponsored by the Department of Communication, Division of Communication Science and Disorders, Pittsburgh, PA, March 28, 1996.
26. "Management of Tracheostomized and Ventilator Dependent Patients: pre-convention workshop" Dikeman K, and **Gross RD**, Kentucky Speech Language Hearing Assoc. State Conference. Lexington Kentucky, March 8, 1997.
27. "Physiologic Effects of Tracheostomy Tube Occlusion on the Pharyngeal Swallow" **Gross RD**, Mahlmann, J, Grayhack, JP. Research forum poster presentation. Academy of Otolaryngology, Head and Neck Surgery, 101st Annual Meeting. San Francisco, CA, September 8, 1997.
28. "Trach and Vent: Differential Diagnosis" Conway N, Dikeman K, **Gross RD**, Spemulli M, Mason M, Clouse M. American. Speech Language Hearing National Meeting. Boston, MA, November 20, 1997.
29. "Physiologic Swallowing Differences in Open and Closed tube Tracheostomy Subjects" **Gross RD**, Mahlmann, JE, Grayhack JP. American Speech Language Hearing National Meeting. Boston, MA, November 20, 1997.
30. "Advances in Specialized Dysphagia Management" Aviv JE, **Gross RD**. Magee Rehabilitation & the Pennsylvania Speech-Language-Hearing Association Pre-Convention Seminar. Philadelphia, PA, March 18, 1998.
31. "Dysphagia" **Gross RD**. Passy-Muir Educational Seminars. New York, NY, Atlanta, GA, Chicago, IL, 1999.
32. "Introduction to Tracheostomies and Ventilators" **Gross RD**. Georgia Speech-Language-Hearing Association Annual Convention, Atlanta, GA, March 23, 2000.
33. "Advanced Tracheostomies and Ventilators: Coordination of Respiration and Swallowing" **Gross RD**. Georgia Speech-Language-Hearing Association Annual Convention, Atlanta, GA, March 23, 2000.
34. "Respiration and Swallowing." **Gross RD**. International Congress of Respiratory Care. Cincinnati, OH, October 3, 2000.
35. "Tracheostomy & Ventilator Grand Rounds" Spemulli M., Fitsimons L, **Gross RD**, Clouse M. American Speech Language Hearing National Meeting. Washington, DC, November 16, 2000.
36. "Diagnosis and Treatment of Dysphagia and Aspiration in Tracheostomized Patients" **Gross RD**. American Speech Language Hearing National Meeting. New Orleans, LA, November 15, 2001.
37. "Lung Volume Effects on Pharyngeal Swallowing Physiology" **Gross RD**, Atwood CW, Grayhack JP, Shaiman S. Scientific Poster, American Thoracic Society 98<sup>th</sup> International Conference, Atlanta, GA, May 20, 2002.
38. "Tracheostomy and Ventilator Workshop: the State of the Science" **Gross RD**, Olszewski JE. Four-hour workshop given to the Alabama Speech Language Hearing Association, Panama City, FL, March 12, 2004.
39. "Management of Tracheostomy and Ventilator Dependent Patients: Speech and Swallowing" **Gross RD**, Lane K. 8 hour workshop sponsored by Central Arkansas Veterans Healthcare System, University of Central Arkansas and Arkansas Children's Hospital, August 6, 2004.
40. "Coordination of Breathing and Swallowing in Parkinson's Disease" **Gross RD**, Atwood CW, Ross SB, Eichhorn KE, Olszewski JW, Doyle PJ. American Speech Language Hearing Association National Meeting, San Diego, CA November 20, 2005.
41. "Safety of Sleeping Overnight with a Passy-Muir Valve in Place" **Gross RD**, Atwood CW, Ross SB. American Speech Language Hearing Association National Meeting, San Diego, CA November 20, 2005.
42. "Novel Computer Program that Quantifies Pharyngeal Residue" **Gross RD**, Horne RS, Atwood CW. Dysphagia Research Society Annual Meeting, Scottsdale, AZ, March 23, 2006.

43. "Fees versus MBS" Carrau RL, **Gross RD**. Voice and Swallowing Update/Alumni Day, Pittsburgh, PA, March 31, 2006.
44. "Coordination of respiratory cycle and deglutition in COPD vs. healthy controls" **Gross RD**, Atwood CW, Ross SB, Olszewski JW, Eichorn KA, Doyle PJ. Scientific poster presentation. American Thoracic Society International Conference, San Diego, CA, May 19, 2006.
45. "Interdisciplinary Management of Tracheostomy and Ventilator Dependent Patients" **Gross RD**, Lane K. Two day seminar sponsored by the NSS-NRS, Pittsburgh, PA, June 24-25, 2006.
46. "Oropharyngeal Dysphagia in Parkinson's Disease" **Gross RD**. Geriatric Conference, Pittsburgh, PA, January 5, 2007.
47. "Talking Tracheostomy Tubes" **Gross RD**. West Virginia University Hospital/Ruby Memorial Critical Care Conference, Morgantown, WV, January 25, 2007.
48. "Management of tracheostomy and ventilatory patients" **Gross RD**, Ohio State Speech Language Pathology Association Annual Meeting, Columbus, OH, March 8, 2007.
49. "Interdisciplinary Management of Tracheostomy and Ventilator Dependent Patients" **Gross RD**, Lane KA, NSS-NRS, Dallas, TX, March 24-25, 2007.
50. "Special issues in evaluating trach/vent patients- factors that affect subglottic pressure" **Gross RD**. Logemann J., Perlman A., Langmore S., Robbins J., Lazarus C., Hirano I., Naas J, Dysphagia Practice Focus on Assessment: Update on evaluation options to ensure best practice, Chicago, IL April 12-15, 2007.
51. "Understanding oropharyngeal dysphagia in adults" **Gross RD**. Massachusetts Dietetic Association Annual Nutrition Convention and Exhibition. Marlborough, MA. May 1, 2007.
52. "Swallowing therapy for patients with tracheostomies and ventilators" Logeman J, Lundy DS, Robbins JA, Martin-Harris B, Ludlow C, Lazarus C, **Gross RD**, Mahler L, Dysphagia Practice – Focus on Treatment. NSS-NRS. San Francisco, CA June 24, 2007.
53. "Dysphagia Practice: Focus on Treatment" Logemann J, Lundy, DS, **Gross RD**, Mahler L, Easterling C, Graner D, Ludlow C, NSS-NRS, Dallas, TX, September 7-9, 2007.
54. "Interdisciplinary Management of Tracheostomy and Ventilator Dependent Patients" **Gross RD**, Lane K. NSS-NRS, Newport News, VA, September 22-23, 2007.
55. "Interdisciplinary Management of Tracheostomy and Ventilator Dependent Patients" **Gross RD**, Lane K. Saint Francis Medical Center, Cape Girardeau, MO, October 5-7, 2007.
56. "Understanding oropharyngeal dysphagia in adults" **Gross RD**, New Hampshire Dietetic Association, Rochester, NH, October 22-23, 2007.
57. "Early Rehabilitation of Swallowing and Communication in the ICU Patient" **Gross, RD**, American Speech Language Hearing Association, Boston, MA, November 16, 2007.
58. "Dysphagia in the elderly: Focus on Treatment" Daniels S, **Gross RD**, Hirano I, Lazarus C, Logemann J, Mahler L, Naas JF, Robbins J. NSS-NRS, Philadelphia, PA, December 7-9, 2007.
59. "Respiratory Considerations in Swallowing Treatment with Emphasis on Patients with COPD" **Gross RD**, Swallowing Disorders Center Multidisciplinary Grand Rounds, University of Pittsburgh School of Medicine, Pittsburgh, PA, January 8, 2008.
60. "**The Role of Subglottic Air Pressure when Swallowing**" **Gross, RD**. **UK Swallowing Research Group (UKSRG) Biennial Meeting, Manchester, UK, February 7-8, 2008.**
61. "**Working with Ventilators and Cough Assist**" **Gross, RD**, **Tracheostomy SIG Study Day, Institute of Neurology, London, UK, February 5, 2008.**

62. **“Re-examining Evidenced Based Practice” Gross RD, Tracheostomy SIG Study Day, Institute of Neurology, London, UK, February 5, 2008.**
63. **“Swallowing Physiology and Tracheostomy Tubes” Gross RD, Tracheostomy SIG Study Day, Institute of Neurology, London, UK, February 5, 2008.**
64. “Tracheostomy Tubes and Ventilators: Everything the Speech Pathologist Needs to Know About Communication” **Gross RD**, Franceschini, T, Abraham, SS. Three day seminar sponsored by the NSS-NRS. Orlando, FL, February 15-17, 2008.
65. “Reaching Speech and Swallowing Objectives in Tracheostomy and Ventilator Dependent Adults” **Gross RD**, New Jersey Speech-Language-Hearing Association 2008 Annual Convention, Atlantic City, NJ, April 12, 2008.
66. “Dysphagia Practice: Focus on Treatment” Logemann J, Lundy D, **Gross RD**, Mahler L, Brush J, Ludlow C, Robbins J, Martin-Harris, B, Lazarus C. NSS-NRS, Chicago, IL , April 25-27, 2008.
67. “Dysphagia Practice: Focus on Assessment” Logemann J, Langmore S, Robbins, JA, Lazarus, C, Hirano I, Naas JF, **Gross RD**. NSS-NRS, Anaheim, CA, May 30-June 1, 2008.
68. “Tracheostomy Tubes and Ventilators: Everything the Speech Pathologist needs to know about Communication and Swallowing” **Gross, RD**, Franceschini, Tom, Abraham, Suzanne S. San Francisco, CA., June 20-22, 2008.
69. “Swallowing and Communication Issues in Trach and Vent Patients” **Gross, RD**. Rogue Valley Medical Center Outpatient Rehab. Medford, Oregon. August 23-24, 2008.
70. “MBS – FEES – BS: Which Test Do I Get Next” **Gross, RD**. 2008 Mid-Year Seminar: American Osteopathic Colleges of Ophthalmology and Otolaryngology – Head and Neck Surgery, Detroit, MI. September 7, 2008.
71. “Geriatric and Neurological Dysphagia” **Gross, RD**. 2008 Mid-Year Seminar: American Osteopathic Colleges of Ophthalmology and Otolaryngology – Head and Neck Surgery, Detroit, MI. September 7, 2008.
72. “Respiratory Testing – With Whom, when and Why?” **Gross, RD**. Dysphagia Practice: A comprehensive update and review of the assessment process to ensure best practice and positive patient outcomes. NSSNRS, Atlanta, GA. September 6, 2008.
73. “Special issues in evaluating trach/vent patients – factors that affect subglottic pressures” **Gross, RD**. A comprehensive update and review of the assessment process to ensure best practice and positive patient outcomes. NSSNRS, Atlanta, GA. September 6, 2008.
74. “Panel Discussion on Evidence-Based Practice using case study format” Logemann, J., **Gross, RD.**, Lundy, DS., Robbins, J., Langmore, S. A comprehensive update and review of the assessment process to ensure best practice and positive patient outcomes. NSSNRS, Atlanta, GA. September 6, 2008.
75. “Dysphagia Practice: A comprehensive update and review of the assessment process to ensure best practice and positive patient outcomes” Logemann, J., Langmore, S., Kind, JA., Lazarus, C., Hirano, I., Naas, JF., **Gross, RD**. NSSNRS, New York City (Queens), NY, October 3-5, 2008
76. “Interdisciplinary Management of Tracheostomy and Ventilator Dependent Patients” **Gross RD**, Lane K. NSS-NRS Harbor Hospital, Baltimore, MD, October 18-19, 2008.
77. **“Restoring Verbal Communication and Improving Swallowing Function in Tracheostomized Patients” Gross RD. 10<sup>th</sup> CSPMR National Conference. Guangzhou, China, November 8, 2008.**
78. **Keynote lecture: “The Role of Subglottic Air Pressure When Swallowing” Gross RD. 10<sup>th</sup> Chinese Society of Physical Medicine and Rehabilitation National Conference (CSPMR). Guangzhou, China, November 8, 2008.**
79. “Emerging Roles for SLPs” **Gross RD**. Effective Practice of Audiology and Speech-Language Pathology for Traumatic Brain Injury (TBI), Department of Veterans Affairs, January 13-15, 2009.

80. "Interdisciplinary Management of Tracheostomy and Ventilator-Dependent Patients" **Gross RD.** NSSNRS, San Diego, CA, January 23-26, 2009
81. "Tracheostomy Tubes and Ventilators: Everything the Speech Pathologist Needs to Know About Communication and Swallowing" **Gross RD.** NSSNRS, San Antonio, TX, February 21-22, 2009.
82. "Subglottic Air Pressure in Swallowing" **Gross RD.** Maryland Speech-Language Hearing Association Convention 2009. Towson, MD, March 27-28, 2009.
83. "Evaluation and Treatment of Swallowing Function in Patients With Tracheostomy or Ventilator Dependence" **Gross RD.** ASHA Health Care/Business Institute 2009. Bethesda, MD, April 4-5, 2009.
84. "Speech Intervention for Patients with Tracheostomy or Ventilator Dependence" **Gross RD.** ASHA Health Care/Business Institute 2009. Bethesda, MD, April 4-5, 2009.
85. "Integrating Important Pulmonary and Respiratory Concepts into Daily Management; Treatment and Practice Trends" **Gross RD.** Tracheostomy Tubes and Ventilators: Everything the Speech-Language Pathologist Needs to Know About Communication, Swallowing and Respiration. NSSNRS, Los Angeles, CA, May 15-16, 2009.
86. "COPD and Parkinson's disease: Special Considerations" **Gross RD.** Tracheostomy Tubes and Ventilators: Everything the Speech-Language Pathologist Needs to Know About Communication, Swallowing and Respiration. NSSNRS, Los Angeles, CA, May 15-16, 2009.
87. "Assessment of Swallowing Including Subglottic Pressure Theory" **Gross RD.** Tracheostomy Tubes and Ventilators: Everything the Speech-Language Pathologist Needs to Know About Communication, Swallowing and Respiration. NSSNRS, Los Angeles, CA, May 15-16, 2009.
88. "Update on Speaking Valves: Purpose, Types, Placement, and Management Including Methods to Re-establish Airflow to Upper Airway" **Gross RD.** Tracheostomy Tubes and Ventilators: Everything the Speech-Language Pathologist Needs to Know About Communication, Swallowing and Respiration. NSSNRS, Los Angeles, CA, May 15-16, 2009.
89. "Update on Tracheostomy Tubes: Purpose, Types and Application Process" **Gross RD.** Tracheostomy Tubes and Ventilators: Everything the Speech-Language Pathologist Needs to Know About Communication, Swallowing and Respiration. NSS-NRS, Los Angeles, CA, May 15-16, 2009.
90. "Review of Head and Neck Anatomy Related to Respiratory Function and Trachs and Vents" **Gross RD.** Tracheostomy Tubes and Ventilators: Everything the Speech-Language Pathologist Needs to Know About Communication, Swallowing and Respiration. NSS-NRS, Los Angeles, CA, May 15-16, 2009.
91. "Dialogue on Dysphagia" **Gross RD.** Presentation at The Children's Institute, Pittsburgh, PA, May 20, 2009.
92. "Research Update On How Breathing Cycle, Lung Volume, Secretion Management and Swallowing Interact" **Gross RD,** Veteran's Administration National Teleconference for Dietitians, September 23, 2009.
93. "Tracheostomy Tubes and Ventilators: Everything The Speech-Language Pathologist Needs To Know About Communication, Swallowing and Respiration" Abraham SS, **Gross RD,** Lane KA. Current Research and Best Practice, Tacoma, Washington, September 26-27, 2009.
94. "Interdisciplinary Management of Tracheostomy-and-Ventilator-Dependent Patients" **Gross RD,** Lane KA. Denver, Colorado, Medical Center of Aurora, October 17-18, 2009.
95. "Swallowing Disorders Grand Rounds" - Interdisciplinary Management of Tracheostomy and Ventilator Dependent Patients" **Gross RD.** University of Pittsburgh Medical Center, Pittsburgh, PA, Saturday, 8:30am-5:00 pm, November 7, 2009.
96. "Review of pediatric x-ray swallowing studies and case reviews (Part I)" **Gross RD.** The Day School, a private school for the neurologically impaired in Pittsburgh, Wednesday, 8:00-9:00 AM., November 18, 2009.



97. **“Modified barium swallow studies and case review (Part II)” Gross RD.** The Children’s Institute, Wednesday, 8:00-9:00 AM., November 25, 2009.
98. **“Fiberoptic Endoscopic Evaluation of Swallowing Course” Gross RD, Carrau RL.** Sur, Sultanate of Oman, January 28<sup>th</sup>, 2010.
99. **“Management of Swallowing in Patients with Tracheostomy” Gross RD.** The National Otolaryngology Conference, Muscat, Sultanate of Oman, January 29<sup>th</sup>, 2010.
100. **“Practices in Tracheotomy Management and the Role of the Speech Therapists: The U.S. Perspective” Gross RD,** Singapore General Hospital, Singapore, February 22, 2010.
101. **“Tracheostomy tube basics and selection criteria” Gross RD.** Singapore General Hospital, Singapore, February 22, 2010.
102. **“Comparison of the different types of tracheostomy tubes” Gross RD.** Singapore General Hospital, Singapore, February 22, 2010.
103. **“Ventilators (types, settings, talking trachs)” Gross RD.** Workshop: Speech and Swallowing Management in Tracheostomized and Ventilator Dependent Patients, Singapore General Hospital, Singapore, February 23, 2010.
104. **“Speaking Valves” Gross RD.** Singapore General Hospital, Singapore, February 23, 2010.
105. **“Lunch Presentation with Respiratory Medicine and Critical Care Department” Gross RD.** Singapore General Hospital, Singhealth Academy, Singapore, February 23, 2010.
106. **“Tracheostomy and its impact on Swallowing” Gross RD.** Singapore General Hospital, Singapore, February 24, 2010.
107. **“Subglottic Pressure Theory for Swallowing” Gross RD.** Singapore General, Singapore, February 24, 2010.
108. **“Models of impaired breathing in pulmonary and neuro-degenerative diseases” Gross RD.** Singapore General Hospital, Singapore, February 24, 2010.
109. **“Implication on feeding with tracheostomy” Gross RD,** Singapore General Hospital, Singapore, February 24, 2010.
110. **“Videofluoroscopic procedure for tracheotomised patients” Gross RD.** Singapore General Hospital (SGH) - PGMI, Singapore, February 25, 2010.
111. **“Workshop on Videofluoroscopic interpretation for tracheotomised patients” Gross RD.** Singapore General Hospital (SGH) - PGMI, Singapore, February 25, 2010.
112. **“Weaning protocol and the roles of multi-disciplinary team in this process” Gross RD.** Singapore General Hospital, Singapore, February 25, 2010.
113. **“Implications of swallowing during the weaning process” Gross RD.** Singapore General Hospital, Singapore, February 25, 2010.
114. **“Evaluation and treatment of young pediatric patients with tracheostomies” Gross RD.** KK Women’s and Children’s Hospital, Singapore, February 26, 2010.
115. **“Assessment procedures to determine candidacy for valve placement and treatment protocol from initial valve placement to home carryover” Gross RD.** KK Women’s and Children’s Hospital, Singapore, February 26, 2010.
116. **“Update on Research: Latest trends and findings” Gross RD.** KK Women’s and Children’s Hospital, Singapore, February 26, 2010.

117. **“Emerging respiratory-based therapies” Gross RD. KK Women’s and Children’s Hospital, Singapore, February 26, 2010.**
118. **“Management of swallowing in tracheotomised patients” Gross RD. National University Hospital (NUH), Singapore, March 1, 2010.**
119. **“Management of swallowing in outpatient and home care tracheotomised patients” Gross RD. National University Hospital (NUH), Singapore, March 1, 2010.**
120. **“Multi-disciplinary team and their roles” Gross RD. National University Hospital (NUH), Singapore, March 1, 2010.**
121. **“Management in Long-Term Tracheotomised patients” Gross RD. Singapore General Hospital (SGH), Singapore, March 2, 2010.**
122. **“Subglottic Sensory Stimulation” Gross RD. The Dysphagia Research Society 18<sup>th</sup> Annual Meeting, San Diego, CA. March 3-7, 2010.**
123. **“Speaking valve placement for tracheostomy and ventilator patients” Gross RD. The Children Institute, Pittsburgh, PA. March 23, 2010.**
124. **“Respiratory Considerations in Swallowing Treatment with Emphasis on Patients with COPD” Gross RD. Dysphagia in the Elderly: Current Research and Best Practice, Northern Speech Services, Toronto, Canada, March 27-28, 2010.**
125. **“Interdisciplinary Management of Tracheostomy- and Ventilator-Dependent Patients” Gross RD. A Comprehensive Examination of Communication, Swallowing and Respiratory Function, Northern Speech Services, Philadelphia, PA, April 17-18, 2010.**
126. **“Interdisciplinary Management of Tracheostomy and Ventilator-Dependent Patients” Gross RD. A Comprehensive Examination of Communication, Swallowing and Respiratory Function, Northern Speech Services, Columbus, OH, May 1-2, 2010.**
127. **“Practices in Tracheostomy Management and the Role of the Speech Therapist” Gross RD. Manitoba Speech and Hearing Association (MSHA), Annual Conference May 6-7, 2010, Winnipeg, Canada, May 7-8, 2010.**
128. **“A 2-day Course in the Management of Swallowing in Adults with Respiratory and Neurologic impairments” Gross, RD, St. James Hospital, Dublin, Ireland, May 13-14, 2010.**
129. **“A 2-day Course in the Management of Breathing, Swallowing and Speaking in Adults with Tracheostomy and Ventilator Dependency” Gross RD. The Rehabilitation Institute of Chicago, Chicago, IL, June 17-18, 2010.**
130. **“Neuroregulatory Influence of the Respiratory System on Deglutition” Gross, RD, Otolaryngology Grand Rounds, University of Pittsburgh, Pittsburgh, PA, Aug 11, 2010.**
131. **“Assessment and treatment of adults requiring tracheostomy tubes and ventilators: what the speech pathologist and other healthcare practitioners need to know” Gross, RD, Mercy Medical Center North. Knoxville, TN. September 11-12, 2010**
132. **“Comprehensive overview of the application of the Passy-Muir® tracheostomy and ventilator swallowing and speaking valve” Current trends in dysphagia. Gross, RD, Cleveland Clinic. Ohio. September 18, 2010.**
133. **“Assessment and treatment of adults requiring tracheostomy tubes and ventilators: what the speech pathologist and other healthcare practitioners need to know” Gross, RD, Mercy Health Center. Oklahoma City, OK. October 16-17, 2010.**
134. **“Research vs. Rhetoric” Gross, RD, The Children’s Institute, Pittsburgh, PA, 2-09-11.**

135. "Comparison of deglutitive subglottic air pressures and respiratory system recoil pressures taken from healthy subjects" **Gross, RD**, Carrau, RL, Slivka, WA, Gisser, RG, Smith, LJ, Sciorba, FC. Dysphagia Research Society 19<sup>th</sup> Annual Meeting, San Antonio, TX, March 4, 2011.
136. "The role of the Speech Language Pathologist in the treatment of patients with head and neck cancer" **Gross, RD**, National Student Speech Language Hearing Association, University of Pittsburgh, March 28, 2011.
137. "Managing swallowing function in patients with tracheostomy and ventilator dependence" Highlighted short course, **Gross, RD**, PA Speech-Language-Hearing Association 2011 Convention, Pittsburgh, PA
138. "Interventions for Respiratory Disorders: Effects of Lung Volume and Subglottic Air Pressure on Swallowing Function" **Gross, RD**, Dysphagia Practice: It's time to take another look at treatment option, Northern Speech Services CE Seminar, Philadelphia, PA, April 15, 2011.
139. "Esophageal disorders in the elderly and referral guidelines" **Gross, RD**, Dysphagia in the elderly: Current Research and Best Practice, Northern Speech Services CE Seminar, New York, New York, May 14, 2011.
140. "Interventions for Respiratory Disorders: Effects of Lung Volume and Subglottic Air Pressure on Swallowing Function" **Gross, RD**, Dysphagia in the elderly: Current Research and Best Practice, Northern Speech Services CE Seminar, New York, New York, May 15, 2011.
141. "Comparison of deglutitive subglottic air pressures and respiratory system recoil pressures: Implications for pediatric patients" **Gross, RD**, The Children's Institute Speech Therapy Department, June 15, 2011.
142. "Tracheostomy tubes and ventilators: What the speech-language pathologist needs to know about communication and swallowing" **Gross, RD**, Washington Hospital, Fremont CA, June 25-26, 2011.
143. "Dysphagia and instrumental assessment" **Gross, RD**, Neuroimmunology Division, Dept of Neurology, Thursday morning lecture series, University of Pittsburgh Medical Center, Pittsburgh, PA, Aug 25, 2011.
144. "Tracheostomy tubes and ventilators: What the speech pathologist needs to know about communication and swallowing" **Gross, RD**, Our Lady of the Lake hospital, Baton Rouge, LA, Oct 9-10, 2011.
145. "Breathing, swallowing and the tracheostomized patient: turning evidence into practice" **Gross, RD**, National Association of Long Term Hospitals, Physician Training Conference , New Orleans, LA, October 7, 2011.
146. "Interventions for Respiratory Disorders: Effects of Lung Volume and Subglottic Air Pressure on Swallow Function, Including Clients with COPD and Trachs/Vents" **Gross, RD**, HealthSouth Harmarville Rehabilitation Hospital, Pittsburgh, PA Oct 9, 2011.
147. "Evidence to Practice" **Gross, RD**, Trapani-Hanasewych, M., Owens, JL, Neurodevelopmental Training Association (NDTA) National Meeting, Anaheim, CA, May, 20, 2012.
148. "Tracheostomy tubes and ventilators: What the speech-language pathologist needs to know about communication and swallowing" **Gross, RD**, Edwin Monroe A HEC Conference Center, Greenville, NC, June 23-24, 2012.
149. "Breathing and Swallowing" **Gross, RD**, Davis Phinney Foundation Victory Summit Symposia Series, David L. Lawrence Convention Center, Pittsburgh, PA, Sept 15, 2012.
150. "Breathing & Swallowing: Translating Research into Clinical Practice" **Gross, RD**, American Speech Language Hearing (ASHA) Annual Convention, Atlanta, GA, Nov 15<sup>th</sup>, 2012.
151. "Modified Evans Blue Dye Test: Integrating Evidence & Experience" Pusins, J., **Gross, RD**, Abraham, S. American Speech Language Hearing (ASHA) Annual Convention, Atlanta, GA, Nov 16<sup>th</sup> 2101.
152. "Breathing and Swallowing: Transferring Research into Clinical Practice" ASHA Revisited 2013, Southwestern Pennsylvania Speech-Language-Hearing Association, Jefferson Regional Hospital, Pittsburgh, PA, Feb 17, 2013.

153. "Tracheostomy tubes and ventilators: What the speech-language pathologist needs to know about communication and swallowing" **Gross, RD**, Yarkosky, L, Skyline Medical Center, Nashville, TN, April 13-14, 2013.
154. "Tracheostomy tubes and ventilators: What the speech-language pathologist needs to know about communication and swallowing" **Gross, RD**, Yarkosky, L, Providence Portland Medical Center, Portland, OR, May 18-19, 2013.
155. "Swallowing Function and Tracheostomy tubes: Turning Evidence Into Practice" **Gross, RD**, Pennsylvania Society of Respiratory Care spring Pulmonary Seminar, Wilkes-Barre, PA, May 23, 2013.
156. "Esophageal dysphagia and total laryngectomy" **Gross, RD**, Advanced Topic in Total Laryngectomy: Re-evaluating Swallowing and Voice in an Era of Organ Preservation, Rush University Medical Center, Chicago IL, Aug 2, 2013.
157. "Evaluation of Swallowing" **Gross, RD**, 40<sup>th</sup> Annual Western Pennsylvania Respiratory Care and Sleep Medicine Conference sponsored by the PA Society for Respiratory Care, Cranberry, PA, Sept 27, 2013.
158. "Understanding Swallowing Function: Identification of a Problem, Evaluation and Treatment" **Gross, RD**, Prader-Willi Syndrome Association (USA) Provider Day Conference, Orlando, FL, Nov 7, 2013.
159. **"Interactions Between Breathing and Swallowing; Evaluation of Swallowing: Lectures and practical instruction, Gross, RD, Hospital Universitario San Cecilio, Granada, Spain, March 20, 2014.**
160. **"Breathing and Swallowing: Translating Research into Clinical Practice" Gross, RD, Universität Potsdam, Berlin, Germany, March 24, 2014.**
161. **"Interactions Between Breathing and Swallowing" Gross, RD, Hospital Raymond Poincare Garches, France, March 25, 2014.**
162. "Tracheostomy tubes- Ventilators-Swallowing-Patients: Connecting Research to Care" RC Critical Care Conference, **Gross, RD**, Pittsburgh, PA, March 28, 2014.
163. "Swallowing and Breathing: Understanding the Relationship and Putting it into Practice. Pediatric and Adult Focus." **Gross, RD**, Sponsored by Swallowing Diagnostics, Inc. Port Charlotte, FL, April 26, 2014.
164. "Breathing and Swallowing: Translating Research into Clinical Practice" **Gross, RD**; Trapani-Hanasewych, M, Invited lecture for the Pulmonary Fellow Division of Pulmonary Medicine, Allergy & Immunology | Children's Hospital of Pittsburgh | University of Pittsburgh Medical Center, Pittsburgh, PA, May 6, 2014.
165. "Tracheostomy tubes and ventilators: What the speech-language pathologist needs to know about communication and swallowing" **Gross, RD**, Yarkosky, L, Atlanta, GA, October 25-26, 2014.
166. "Swallowing function and tracheostomy tubes: Turning evidence into practice" **Gross, RD**, 35<sup>th</sup> Annual PSRC NW District Respiratory Care Seminar, Erie, PA, April 10, 2015.
167. "Esophagus for the speech pathologist: management of non-pathologic forms of esophageal dysphagia" **Gross, RD**, Trapani-Hanasewych, M, Huntington Hospital, Pasadena, CA, April 25-26, 2015.
168. "Esophagus for the speech pathologist: management of non-pathologic forms of esophageal dysphagia" **Gross, RD**, Trapani-Hanasewych, Englewood Hospital and Medical Center, Englewood, NJ, May 16-17, 2015.
169. "Subclinical dysphagia in children and adults with Prader-Willi syndrome" **Gross, RD**, Clinical Care Perspectives on Prader-Willi Syndrome, sponsored by The Children's Institute, PNC Park, Pittsburgh, PA, May 29, 2015.
170. "Contemporary management of dysphagia" Postma G, Belafsky P, O'Rourke A, **Gross RD**. Fall Voice Conference, Pittsburgh, PA, Oct 16, 2015.
171. "Esophagus for the speech pathologist: management of non-pathologic forms of esophageal dysphagia" **Gross, RD**, Trapani-Hanasewych, United Hospital-Allina Health, St. Paul, MN, Sept 26-27, 2015.

172. "Esophagus for the speech pathologist: management of non-pathologic forms of esophageal dysphagia" **Gross, RD**, Trapani-Hanasewych, Medical City, Dallas TX, Oct 24-25, 2015.
173. "Discovery of subclinical dysphagia in children and adults with Prader-Willi syndrome." **Gross, RD**, PWS Scientific Meeting, Prader-Willi Syndrome Association, USA, 33<sup>rd</sup> National Conference, Orlando, FL, Nov 5, 2015.
174. "Research updates in PWS." Carter, S, **Gross, RD**, Prader-Willi Syndrome Association, USA, 33<sup>rd</sup> National Conference, Orlando, FL, Nov 6, 2015.
175. **"The First Oman Workshop on Management of Swallowing Problems" Gross, RD, April 10-12, 2016, Royal Hospital, Muscat, Sultanate of Oman.**