

NON-PROFIT ORG.
U.S. POSTAGE
PAID
NEW YORK, NY
PERMIT# 8167

NYU School of Medicine
NYU LANGONE MEDICAL CENTER
Post-Graduate Medical School, 545 First Avenue, New York, NY 10016

We invite you to join us for

THE FALL VOICE CONFERENCE

presented by
the Departments of
Otolaryngology of NYU
School of Medicine and
Weill Cornell Medical College



OCTOBER
4TH-6TH, 2012

Visit the NYU Post-Graduate
Medical School website at
<http://cme.med.nyu.edu/voice>

THE FALL VOICE CONFERENCE

presented by
the Departments of Otolaryngology of
NYU School of Medicine and Weill Cornell Medical College

NYU School of Medicine
NYU LANGONE MEDICAL CENTER



Weill Cornell Medical College

Pre-Conference Workshops will include hands-on sessions and will focus on the performing voice



Sponsored by the
NYU Post-Graduate
Medical School

Course Description

The Fall Voice Conference is designed to encourage and educate professionals on a multi-disciplinary approach to the management of vocal difficulties. The focus of this conference is the clinical care of patients with voice-related difficulties and how clinical and basic science research guide clinical care. The conference will be divided among invited lectures, panel discussions, and scientific presentations. Speech language pathologists, voice teachers, voice scientists, and physicians are encouraged to attend and participate.

Target Audience

This conference is designed to provide a multi-disciplinary approach to the management of voice difficulties for Physicians, Speech Pathologists, Researchers, Voice Trainers and Pedagogues.

Statement of Need

Physicians, Speech Therapists, and Voice Professionals need to beware of newer techniques for the evaluation of patients with voice disorders and newer treatment options for patients with voice disorders. They also need to be aware of recent discoveries on the basic anatomy and physiology of the vocal mechanism.

Educational Objectives

At the conclusion of this activity, participants should be able to:

- Effectively incorporate newer evaluative techniques into clinical practice
- Incorporate multi-disciplinary language into patient narratives and work with other professionals in a multi-disciplinary program
- Tailor evaluation and treatment of patients based on their vocal requirements and profession
- Effectively incorporate newer treatment options into clinical practice
- Establish some basic understanding of vocal fold physiology that can serve as a basis for further clinical research

Course Directors

Milan Amin, MD

Associate Professor
NYU Voice Center
Department of Otolaryngology
NYU School of Medicine

Ryan C. Branski, PhD

Assistant Professor
NYU Voice Center
Department of Otolaryngology
NYU School of Medicine

Thomas Murry, PhD

Professor
Department of Otolaryngology
Weill Cornell Medical College

Lucian Sulica, MD

Associate Professor
Department of Otolaryngology
Weill Cornell Medical College

Program Committee

Julie Barkmeier-Kraemer, PhD

Voice & Swallowing Center
Department of Otolaryngology
UC Davis Health System

Mark Courey, MD

UCSF Voice and Swallowing Center
Department of Otolaryngology
UCSF School of Medicine

Edie Hapner, PhD

Emory Voice Center
Department of Otolaryngology-
Head and Neck Surgery
Emory University

Markus Hess, MD

Department of Voice
Speech and Hearing Disorders
University Medical Center
of Hamburg-Eppendorf

Michael Johns, MD

Emory Voice Center
Department of Otolaryngology-
Head and Neck Surgery
Emory University

Christine Sapienza, PhD

Department of Speech
Language and Hearing Sciences
College of Public Health and
Health Professions
University of Florida

Sarah Schneider, MS

UCSF Voice and Swallowing Center
Department of Otolaryngology
UCSF School of Medicine

Peak Woo, MD

Professor
Department of Otolaryngology
The Mount Sinai Medical Center
The Mount Sinai School of Medicine

Keynote Speakers

Stephen Badyak, DVM, PhD, MD

Professor
University of Pittsburgh
School of Medicine

Norman Ducharme, DVM, MSc

Section of Large Animal Surgery
Equine and Farm Animal Hospitals
College of Veterinary Medicine
Cornell University

Robert Hotchkiss, MD

Hospital for Special Surgery
Weill Cornell Medical College
Burke Rehabilitation Hospital

Michael Long, PhD

Assistant Professor
Departments of Physiology
Neuroscience and Otolaryngology
NYU School of Medicine

Course Faculty

David Abeles, MFA

Leslie Akl, BA

Kenneth Altman, MD, PhD

Jennifer Bergeron, MD

Erkki Bianco, MD

Hakan Birkent, MD

Jonathan Bock, MD

Deanna Britton, PhD, CCC-SLP

Thomas Carroll, MD

Dinesh Chhetri, MD

Ajay Chitkara, MD

Lise Crevier-Buchman, MD, PhD

Courtney Crouse, DMA (ABD)

Troy Clifford Dargin

Gillian Diercks, MD

Erin N. Donahue, BM, MA

Christine Estes, MM, MA, CCC-SLP

Gaetano Fava, MS, CCC-SLP

Jackie L. Gartner-Schmidt, PhD

Drew Gehling, BFA

Shirley Gherson, MA, CCC-SLP

Brian Gill, DMA

Amanda Gillespie, MS

Antoine Giovanni, MD, PhD

Christopher Hartnick, MD

Karen Wheeler Hegland, PhD

Amanda Hu, MD, FRCSC

Dan Ihasz, MM

Takeshi Ikuma, PhD

Nikki James

Aaron M. Johnson, MM, PhD

Omer Karakoc, MD

Sid Khosla, MD

Ayami Ohno Kishimoto, MD

Tsuyoshi Kojima MD, PhD

Gwen Korovin, MD

Jamie Koufman, MD

Joan Lader, BS, MA

Wendy D. LeBorgne, PhD

Amy Lebowitz-Cooper, MS, CCC-SLP

Ellen Lettrich, MS, CCC-SLP

Hanna Mackiewicz-Nartowicz, PhD

Carrie Manolagos

Abie Mendelsohn, MD

J Pieter Noordzij, MD

Gisele Oliveira, PhD

Benjamin Rafii, MD

Brittney Redler, MM

Marc Remacle, MD, PhD

Joana Revis, PhD

Scott Rickert, MD

Camille Robieux

Tyley Ross, MA

David Rosow, MD

Bernard Rousseau, PhD

Bari Hoffman Ruddy, PhD

Tina Scalzo, B Sp Path (Hons)

Rupali Shah, MD

Michael Sheu, MD

Rahul Shrivastav, PhD

Libby Smith, DO

Shaum Sridharan, MD

Michelle Troche, PhD, CCC-SLP

Gerd Fabian Volk, MD

Andrew Wade

Christopher R. Watts, PhD

Gayle Woodson, MD

Taner Yilmaz, MD

Craig H. Zalvan, MD

Aaron Ziegler, MA

Karen Zur, MD

agenda

Thursday, October 4, 2012

OPTIONAL PRE-CONFERENCE WORKSHOPS – NON-CME

- 9:30 am Registration
- 10:00 Current Trends in Technology for Voice Training and Performance
 - Brian Gill, DMA & Dan Ihasz, MM
- 10:45 Classical Singers' Studio: Guiding Healthy Voicing Through Artistry
 - Courtney Crouse, DMA (ABD)
- 11:45 Coffee Break

- 12:00 noon Beltapalooza: Analyzing Broadway Belters in Action
 - Joan Lader, BS, MA
- 1:00 Lunch (On your own)

- 2:00 Maintaining Performance Voice: Report from the Trenches, Question & Answer with 2011 Tony Award Winner Nikki James from *Book of Mormon*
 - Moderators: Ryan C. Branski, PhD & Ellen Lettrich, MS, CCC-SLP
- 2:45 The Actor's Voice Toolkit: Balancing Technique and the Demands of a Role
 - Andrew Wade

- 4:00 Coffee Break
- 4:15 Rockers Roundtable: Integrating Healthy Voicing and The Pop-Rock Aesthetic
 - Brian Gill, DMA, Carrie Manolagos & Tyley Ross, MA

- 5:00 Optimizing Collaboration: An Open Dialogue between the Medical and Performance Worlds
 - Moderator: Ellen Lettrich, MS, CCC-SLP
 - Panel: David Abeles, MFA, Milan Amin, MD, Courtney Crouse, DMA, (ABD), Christine Estes, MM, MA, CCC-SLP, Shirley Gherson, MA, CCC-SLP, Brian Gill, DMA, Nikki James, Joan Lader, BS, MA, Tyley Ross, MA, Lucian Sulica, MD, Andrew Wade
- 6:00 Closing Remarks
- 6:10-8:00 pm Welcome Reception (Smilow Lobby)

Friday, October 5, 2012

- 6:45 am Registration and Continental Breakfast
- 7:45 Welcoming Remarks
- 8:00 Keynote Presentation: Equine Vocal Fold Palsy
 - Norman G. Ducharme, DVM, MSc

- SCIENTIFIC SESSION- GLOTTAL INSUFFICIENCY - PARALYSIS, PARESIS AND THE AGING LARYNX
 - Moderator: Markus Hess, MD
- Podium Presentations

- 8:30 Multi-Dimensional Voice Outcomes after Type I Core-Tex Thyroplasty in Patients with Mobile Vocal Folds: A Subgroup Analysis
 - Rupali Shah, MD
- 8:39 Differences in Age-Related Synaptic Remodeling between Lateral and Medial Thyroarytenoid Neuromuscular Junctions
 - Aaron Johnson, MM, PhD
- 8:48 The Comparison of Voice and Swallowing Parameters after Endoscopic Arytenoidectomy for Bilateral Vocal Fold Paralysis
 - Taner Yilmaz, MD

- 8:57 Prospective Study of Voice Outcomes and Patient Tolerance of In-office Percutaneous Injection Laryngoplasty
 - Hakan Birkent, MD
- 9:06 Graded Neuromuscular Activation of the Larynx to Study Laryngeal Paresis and Asymmetries
 - Dinesh Chhetri, MD
- 9:15 The Effect of Implant Stiffness, Shape, and Medialization Depth on the Phonatory Outcomes of Medialization Thyroplasty
 - Jennifer Bergeron, MD

- 9:24 Laryngeal Sensory Nerve Evaluation with EMG
 - Jonathan Bock, MD
- CASE PRESENTATIONS
- 9:33 Thyroid Cartilage Collapse following Thyroplasty: A Reconstructive Challenge
 - Marc Remacle, MD, PhD
- 9:38 Question & Answer
- 10:00 Coffee Break

- SCIENTIFIC SESSION- COUGH, MUSCLE TENSION DYSPHONIA, AND PARADOXICAL VOCAL FOLD MOVEMENT
 - Moderator: Julie Barkmeier-Kraemer, PhD
- Podium Presentations
- 10:30 Centrally-Mediated Post-Viral Vagal Neuropathic Cough Syndrome
 - Craig H. Zalvan, MD
- 10:38 The Effects of Hyper- and Hypocapnia on Phonatory Laryngeal Resistance
 - Amanda Gillespie, MS
- 10:46 Immediate Effects of the Finnish Resonance Tube Exercises on Chronic Behavioral Dysphonia
 - Gisele Oliveira, PhD
- 10:54 Phonation in a Straw: Comparison of Transglottal Pressure Gradient and Phonatory Threshold Pressure
 - Camille Robieux
- 11:02 Patient Perception of Voice Therapy Effectiveness
 - Aaron Ziegler, MA
- 11:10 Use of Anti-Neuropathy Medications to Treat Laryngeal Irritability
 - J. Pieter Noordzij, MD
- 11:18 Associations between Vocal Fold Movements and Airflow During Cough in Neurological Disease: Preliminary Analyses
 - Deanna Britton, PhC, CCC-SLP
- 11:26 Relationship between Total Expired Air, Peak Airflow, and Cough Number in Down-Regulated Cough
 - Karen Wheeler Hegland, PhD
- CASE PRESENTATIONS
- 11:34 Case Report: Paradoxical Vocal Fold Motion as a Result of Vagal Nerve Stimulation: Response to Respiratory Retraining Therapy
 - Amanda Gillespie, MS

- 11:39 Cough Function Pre/Post DBS in Parkinson's Disease: A Case Series
 - Michelle Troche, PhD, CCC-SLP
- 11:44 Challenging Cough Cases: A New Frontier in Otolaryngology
 - Kenneth Altman, MD, PhD
- 11:49 Question & Answer
- 12:00 Lunch (On your own)
- 1:15 Keynote Speech: Tissue Engineering and Regenerative Medicine
 - Stephen Badylak, DVM, PhD, MD
- SCIENTIFIC SESSION- SCAR, STENOSIS, AND WEBS
 - Moderator: Peak Woo, MD
- Podium Presentations
- 1:45 A Novel Technique for Endoscopic Management of Complete Supraglottic Stenosis
 - David Rosow, MD
- 1:55 Early Versus Delayed Vocal Fold Mobilization: High-Speed Videendoscopic Evaluation of Vibration in an Evoked Rabbit Phonation Model
 - Tsuyoshi Kojima, MD, PhD
- 2:05 An Otologic Perspective on Sulcus-Retraction Pockets and the Role of Inflammation
 - Lucian Sulica, MD
- 2:15 Correlational Study of the VHL-10 and Acoustic and Aerodynamic Measurements of Voice
 - Jackie L. Gartner-Schmidt, PhD
- 2:25 The Utility of the Potassium Titanyl Phosphate (KTP) Laser in Modulating Vocal Fold Scar in a Rat Model
 - Michael Sheu, MD
- 2:35 Intraglottal Vortices and Acoustics in Normal and Unilateral Scarred Canine Larynges
 - Sid Khosla, MD
- CASE PRESENTATIONS
- 2:45 Inhalation Burn Injury: A Model of Multifaceted Treatment
 - Shaun Sridharan, MD
- 2:50 Question & Answer
- 3:15 Coffee Break
- SCIENTIFIC SESSION- BENIGN VOICE DISORDERS
 - Moderator: Edie Hapner, PhD
- Podium Presentations
- 3:45 Magnetic Resonance Microimaging of Normal and Pathological Vocal Fold Structures
 - Ayami Ohno Kishimoto, MD
- 3:53 False Vocal Fold and Interarytenoid Muscle Botulinum Toxin A Injection for Laryngeal Dysphonias
 - Libby Smith, DO
- 4:01 Clinical Impact of High-Speed Video Vibratory Assessment
 - Abie Mendelsohn, MD
- 4:09 Disease-Specific Self-Efficacy in Spasmodic Dysphonia Patients
 - Amanda Hu, MD, FRCS
- 4:17 Vocal Fold Elastin in Transgenic and Knockout Mouse Models
 - Christopher R. Watts, PhD
- 4:25 A Treatment Series of Patients with Pseudocyst-Characteristics, Clinical Course and Outcomes
 - Christine Estes, MM, MA, CCC-SLP
- 4:33 Recurrent Contact Granuloma: Experience with Excision and Botulinum Toxin Injection
 - Taner Yilmaz, MD
- 4:41 Cloninger Temperament and Character Inventory and Vocal Nodules in Women
 - Antoine Giovanni, MD, PhD
- CASE PRESENTATION
- 4:49 A Case of Sudden Onset of Aphonia following an Asthma Attack
 - Gaetano Fava, MS, CCC-SLP
- 4:54 Question & Answer
- 5:15 Closing Comments
- 5:30 pm Adjourn

Saturday, October 6, 2012

- 6:45 am Registration & Continental Breakfast
- 7:45 Welcoming Remarks
- 8:00 Keynote Speech: Care of the Performing Artist: An Orthopaedic Perspective
 - Robert Hotchkiss, MD
- SCIENTIFIC SESSION- THE PERFORMING VOICE
 - Moderator: Michael Johns, MD
- Podium Presentations
- 8:30 A Clinical Definition of Laryngology of the Performing Voice: Comparison of Vocal Pathology in Performers and Nonperformers
 - Lucian Sulica, MD
- 8:38 Prevalence of Vocal Pathology in Incoming Freshman Musical Theater Performers: A 10-Year Retrospective Study
 - Wendy D. LeBorgne, PhD
- 8:46 The Show Must Go On: How Do Our Favorite Rock and pop icons deliver World Class Vocal Performances Night after Night, Year after Year?...Or Do They?
 - Brittney Redler, MM
- 8:54 One Time Estimates vs. Three Week Long Estimates of Voicing Behaviors in Singers and Actors
 - Troy Clifford Dargin
- 9:02 The Voices of Broadway: An Update
 - Drew Gehling, BFA
- 9:10 Reported Vocal Habits of Incoming Freshman Musical Theatre Majors in a Pre-Professional Training Program
 - Erin N. Donahue, BM, MA
- 9:18 Individual Harmonic Listening for the Improvement of the Speaking and Singing Voice
 - Erkki Bianco, MD
- CASE PRESENTATIONS
- 9:26 A Comprehensive Investigation of a Vocal Impersonator
 - Joana Revis, PhD
- 9:31 Validation of the Measure of the Estimated Sub Glottal Pressure in Singing Voice
 - Leslie Akl, BA
- 9:36 Finding His Voice: Vocal Fold Paralysis in a Professional Singer with Non-Hodgkins's Lymphoma
 - Amy Lebowitz-Cooper, MS, CCC-SLP

ASHA CE Provider Approval

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

Approved Provider for ASHA Continuing Education

activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.