

Hearing and Speech Department

SPLH 822 - MOTOR SPEECH DISORDERS

Spring Semester, 2012

(2 credits)

Time: 1:15 - 2:55 pm, Monday and Wednesday

Place: Rm. 3001, H.C. Miller Bldg.

Instructor: Susan T. Jackson, Ph.D.,
Room 3021 H.C. Miller Bldg.,
(913) 588-5937

Office Hours: Dr. Jackson will be available by appointment at mutually convenient times.

Course Description:

This course is designed to study motor disorders of speech, including the dysarthrias and the apraxias. Causal factors, principles of evaluation, and remediation will be addressed. The relevant neurology also will be presented. No prerequisites.

Course Objectives:

By completion of the course, you should be able to:

1. Define, describe, and classify motor speech disorders
2. Select appropriate appraisal protocols for the disorders and be familiar with their administration
3. Develop initial treatment goals, choose appropriate treatment approaches, and select tasks and stimuli for clinical management of the disorder
4. Discuss theoretical and clinical issues pertaining to the study and management of the disorder

Performance Expectations and Grading Criteria:

Your grade will be based on a number of tasks:

1. One exam (March 7). There will be no make-up exam unless I have an acceptable reason from you for missing the exam. For any reason other than

illness, you must contact me at least one week before the exam is scheduled. For illness, you may contact me as late as the morning of the day the exam is given.

2. Six weekly assignments (due at 1:15 pm on Jan 25, Feb 1, Feb 8, Feb 15, Feb 22, Feb 29). The assignments will be available in Blackboard or distributed in class one week before they are due. Always hand the assignment to me; do not put it anywhere else (e.g., under the door to my office, in my mail tray).

There will be a penalty for late assignments (1% deduction from 1:21 - 1:50 pm, 2% deduction from 1:51 - 2:05 pm, 3% deduction from 2:06 - 2:20 pm, 4% deduction from 2:21 pm - 2:35 pm, 5% deduction from 2:36 - 2:55 pm, 10% deduction from 2:56 - 4:30 pm, 20% deduction after 4:30 pm until 8:30 am the next day, 100% deduction (0 credit) after 8:30 am the next day.

3. A course evaluation - This is to be completed online. You will receive instructions via your KUMC e-mail account and possibly via your KU e-mail account. The IT personnel at KUMC can track who has completed a course evaluation, but they cannot link responses to a particular student. There will be a penalty for failing to complete a course evaluation by a specified date (most likely March 6); the exact nature of the penalty will be announced in class.

Each assignment will be worth 10% of your grade. The exam will be worth 40% of your grade. Your final percentage score will be converted to a grade using the following scale:

A = 94-100, A- = 90-93, B+ = 87-89, B = 83-86, B- = 80-82, C+ = 77-79, C = 73-76, C- = 70-72, D+ = 67-69, D = 63-66, D- = 60-62, F = <60

Course Readings

Yorkston, K.M., Beukelman, D.R., Strand, E.A., & Hakel, M. (2010). Management of motor speech disorders in children and adults (3rd edition). Austin, TX: PRO-ED, Inc.

Additional readings as assigned, and handouts.

Textbook Reading Assignment and Additional Readings

Jan 18: Chapter 1 (Perspectives)

- Threats, T. (2004). The use of the ICF in intervention for persons with neurogenic communication disorders. SID-2 article.

Jan 23: Chapter 13 pp. 474-501 (Dysarthria and AOS in Non-degenerative disease - Stroke and TBI)

- 2007 ASHA position statement on CAS <http://www.asha.org/docs/html/PS2007-00277.html>
- Shuster, L.I. (2007). Clinical Brain Scanning: An update. SID-2 article.

Jan 25: Chapter 13 pp. 474-501 (Dysarthria and AOS in Non-degenerative disease - Stroke and TBI)

- Farinella-Bocian, K., et al. (2007). Neuroanatomical review of mechanisms important to speech motor control (**UMN and LMN section only**). SID-2 article.

Jan 30: Chapter 13 pp. 435 - 473 and 501-503(Dysarthria in Degenerative Disease)

- Farinella-Bocian, K., et al. (2007). Neuroanatomical review of mechanisms important to speech motor control (**basal ganglia section only**). SID-2 article.

Feb 1: Chapter 13 pp. 435 - 473 and 501-503(Dysarthria in Degenerative Disease)

- Farinella-Bocian, K., et al. (2007). Neuroanatomical review of mechanisms important to speech motor control (**cerebellum section only**). SID-2 article.

Feb 6: Chapters 2 and 3 (Clinical Examination and Differential Diagnosis)

- McHenry, M.A., & Parle, A.M. (2006). Construction of a set of unpredictable sentences for intelligibility testing. Journal of Medical Speech-Language Pathology, 14 (4), 269-271.

Feb 8: Chapters 2 and 3 (Clinical Examination and Differential Diagnosis)

- Duffy, J. (2005). Pearls of wisdom - Darley, Aaronson, and Brown and the classification of the dysarthrias. SID-2 article.

Feb 13: Chapter 5 (Respiration)

- Yorkston, K. M., Spencer, K. A., & Duffy, J. R. (2003). Behavioral management of respiratory/phonatory dysfunction from dysarthria: A systematic review of the evidence. Journal of Medical Speech-Language Pathology, 11(2), xiii-xxxviii. (*first few pages and biofeedback studies only*) [PDF](#)
- Spencer, K., Yorkston, K., Duffy, J., Behavioral Management of Respiratory/Phonatory Dysfunction from Dysarthria: A Flowchart for Guidance in Clinical Decision Making. Journal of Medical Speech-Language Pathology, Vol. 11, No. 2, pp xxxix-lxi. Copyright 2003 by Delmar Learning, a division of Thomson Learning, Inc. (*Intro and sections A-E*) [PDF](#)

- Yorkston, K. M., Hakel, M., Beukelman, D. R., & Fager, S. (2007). Evidence for effectiveness of treatment of loudness, rate or prosody in dysarthria: A systematic review. *Journal of Medical Speech-Language Pathology*, 15(2), xi-xxxvi. (*Loudness section only*) [PDF](#)

Feb 15: Chapter 6 (Laryngeal Function)

- Yorkston, K. M., Spencer, K. A., & Duffy, J. R. (2003). Behavioral management of respiratory/phonatory dysfunction from dysarthria: A systematic review of the evidence. *Journal of Medical Speech-Language Pathology*. 11(2), xiii-xxxviii. (*remainder of article*) [PDF](#)
- Spencer, K., Yorkston, K., Duffy, J., Behavioral Management of Respiratory/Phonatory Dysfunction from Dysarthria: A Flowchart for Guidance in Clinical Decision Making. *Journal of Medical Speech-Language Pathology*. Vol. 11, No. 2, pp xxxix-lxi. Copyright 2003 by Delmar Learning, a division of Thomson Learning, Inc. (*remainder of article*) [PDF](#)
- Baylor, R., et al. (2006). A systematic review of outcome measurement in unilateral vocal fold paralysis. *Journal of Medical Speech-Language Pathology*, 14 (1), xxvii - lvii.
- Deane, K.H.O., Whurr, R., Playford, E.D., Ben-Schlomo, Y., & Clarke, C. E. (2001). Speech and language therapy versus placebo or no intervention for dysarthria in Parkinson's disease. *Cochrane Database of Systematic Reviews, Issue 2*. Art. No.: CD002812. DOI: 10.1002/14651858.CD002812.Art. No.: CD002088. (www.thecochranelibrary.com)

Feb 20: Chapters 7 & 9 (p. 267-285 only) (Velopharyngeal Function & Articulation)

- Yorkston, K. M., Spencer, K. A., Duffy, J. R., Beukelman, D.R., Golper, L. A., Miller, R. M., Strand, E. A., & Sullivan, M. (2001). Evidence-Based Practice Guidelines for Dysarthria: Management of Velopharyngeal Function. *Journal of Medical Speech-Language Pathology*, 9(4), 257-273. [PDF](#)
- Sellars, C., Hughes, T., & Langhorne, P. (2005). Speech and language therapy for dysarthria due to non-progressive brain damage. *Cochrane Database of Systematic Reviews, Issue 3*. Art. No.: CD002088. DOI: 10.1002/14651858.CD002088.pub2. (www.thecochranelibrary.com)

Feb 22: Chapters 8 (entire chapter) & 9 (p. 285-302 only) (Rate Control and Prosody)

- Yorkston, K. M., Hakel, M., Beukelman, D. R., & Fager, S. (2007). Evidence for effectiveness of treatment of loudness, rate or prosody in dysarthria: A systematic review. *Journal of Medical Speech-Language Pathology*, 15(2), xi-xxxvi. (*rate and prosody sections only*) [PDF](#)

Feb 27: Chapter 10 (Interventions for Participation Restrictions)

- Yorkston et al. (1996). Comprehensibility of dysarthric speech: Implications for assessment and treatment planning. *AJSLP*, 5, 55-66.
- Hanson, E.K., Yorkston, K.M., & Beukelman, D.R. (2004). Speech supplementation techniques for dysarthria: A systematic review. *Journal of Medical Speech-Language Pathology*, 12(2), ix-xxix.

Feb 29: Chapter 12 pp. 385-405 (Treatment of Acquired Apraxia of Speech)

- Wambaugh, J., Duffy, J., McNeil, M., Robin, D., Rogers, M. Treatment Guidelines for Acquired Apraxia of Speech: A Synthesis and Evaluation of the Evidence. *Journal of Medical Speech-Language Pathology*. Volume 14, Number 2, pp. xv-xxxiii. Copyright © 2006

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- Wambaugh, J., Duffy, J., McNeil, M., Robin, D., Rogers, M. Treatment Guidelines for Acquired Apraxia of Speech: Treatment Descriptions and Recommendations. *Journal of Medical Speech-Language Pathology*. Volume 14, Number 2, pp. xxxv-lxvii. Copyright © 2006 Thomson Delmar Learning. Thomson and Delmar Learning are trademarks used herein under license. [PDF](#)

March 5: Chapter 12 pp. 405-430 (Treatment of Childhood Apraxia of Speech)

- ASHA Leader article (Nov 6, 2007) on Tx for CAS
<http://www.asha.org/Publications/leader/2007/071106/f071106a.htm>
- Strand, E.A., Stoeckel, R., & Baas, B. (2006). Treatment of severe childhood apraxia of speech: A treatment efficacy study. *Journal of Medical Speech-Language Pathology*, 14(4), 297 - 308.
- Ruscello, D. (2007). Childhood apraxia of speech: An update. SID-2 article.
- McCauley, R.J., et al. (2009). Evidence-based systematic review: Effects of nonspeech oral motor exercises on speech. *American Journal of Speech-Language Pathology*, 18, 343-360.

Mar 7: Exam

All tests and assignments are to be returned to the instructor. Students may look at their tests and assignments at any time during their course of study at the University of Kansas Medical Center. Photocopying tests or assignments is prohibited. Sharing tests or assignments with other students in the Speech-Language Pathology program at the University of Kansas is prohibited.

Assignments 1, 2, 3, and 6 may be used as portfolio artifacts; Assignments 4 and 5 and the final exam may not be used as portfolio artifacts.

Learning assistance, academic performance enhancement, and psychological services at KUMC are free, confidential, and available at Student Counseling & Educational Support Services by calling 913-588-6580 or visiting G116 Student Center.

Any student in this course who needs an accommodation because of a disability in order to complete the course requirements should contact the instructor or the Equal Opportunity/Disability Specialist (913-588-7813, TDD 913-588-7963) as soon as possible.

Any student who does not understand and/or accept the contents and the terms of this syllabus must notify the instructor in writing within one week after receiving this syllabus.