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CURRICULUM VITAE

PRESENT/PAST AFFILIATIONS:

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July 2005 – Present

Technical Director, Human Performance Laboratory - Center on Aging,

University of Kansas Medical Center

August, 1994 - July 1996

Technical Director, Balance and Postural Control Laboratory

Duke University Medical Center

May 1989 – July 1994

UNDERGRADUATE EDUCATION:

Duke University, Durham, NC, Bachelor of Science, Biomedical Engineering

1986-1990

GRADUATE EDUCATION:

Duke University, Durham, NC, Master of Science, Biomedical Engineering,

1992-1994

MEDICAL EDUCATION:

The University of Kansas, University of Kansas School of Medicine, – Doctor of Medicine,

Degree conferred, 2000

POSTGRADUATE MEDICAL EDUCATION:

Internship: Internal Medicine, University of Kansas Medical Center, Kansas City, KS,

2000-2001

Radiation Oncology Residency: Johns Hopkins University, Baltimore, MD,

2001-2005

TEACHING EXPERIENCE:

Instructor, Department of Physical Therapy
University of Kansas Medical Center, August 1995 – December 1996

Teaching Assistant, Department of Biomedical Engineering
Duke University, August 1991 – August 1994

PROFESSIONAL LICENSURE:

Licensed to practice medicine in Kansas

HONORS AND AWARDS:

Medical Student Research Award, Department of Pediatrics
University of Kansas Medical Center, 2000

Honors Case Presentation, Department of Pathology
University of Kansas Medical Center, 1997

John A. Hartford Scholarship in Geriatrics
Duke University Medical Center, 1990

PUBLICATIONS:

Peer Reviewed Journals

Hughes MA, Wang A, DeWeese TL. Two secondary malignancies after radiotherapy for seminoma: case report and review of the literature. *Urology*. 2003 Oct;62(4):748.

Hughes MA, Kleinberg L, Parisi M, Grossman S. Primary brain tumors treated with steroids and radiation: Low CD4 counts and risk of infection. *Int J Radiat Oncol Biol Phys*. 2005 Aug 1;62(5):1423-6.

Chan T, Weingart J, Parisi M **Hughes MA**, et al. Treatment of recurrent glioblastoma multiforme with Gliasite brachytherapy. *Int J Radiat Oncol Biol Phys*. 2005 Jul 15; 62(4):1133-9.

Swartz M, **Hughes MA**, et al. Adjuvant chemoradiation for treatment of adenocarcinoma of the duodenum. In press, *Archives of Surgery* 2007.



PUBLICATIONS: *(continued:)*

Hughes MA, Wilds HB, Frassica D. Role of adjuvant chemoirradiation in adenocarcinoma of the distal common bile duct. In press, *Int J Radiat Oncol Biol Phys* 2007.

Hughes MA, Abrams RA, Donehower R, Frassica D. Adjuvant concurrent chemoirradiation for treatment of gallbladder carcinoma. In review.

Hughes MA, Wilds HB, Frassica D et al.. Role of adjuvant chemoirradiation in adenocarcinoma of the ampulla of Vater. In process.

Shokek O, Terazakis S, **Hughes MA**, Kleinberg L, Wharam M, Rigamonti D. Hypofractionated Stereotactic Radiotherapy as Primary Treatment of Acoustic Neuroma: Results of the Johns Hopkins Experience. In process.

Cutson TM, Gray SL, **Hughes MA**, Carson SW, Hanlon JT. Effect of a single dose of diazepam on balance measures in older people. *J Am Geriatr Soc.* 1997; 45(4):435-40.

Hughes MA, Myers BS, Schenkman ML. The role of strength in rising from a chair in the functionally impaired elderly. *Journal of Biomechanics* 1996; 29(12): 1509-13.

Schenkman ML, **Hughes MA**, Samsa G, Studenski SA. The relative importance of strength and balance in rising from a chair in the functionally impaired older individuals. *Journal of the American Geriatrics Society* 1996; 44(12) 1441-46.

Hughes MA, Schenkman ML. Chair rise strategy in the functionally impaired elderly. *Journal of Rehabilitation Research and Development* 1996; 33(4): 409-12.

Hughes MA, et al. The relationship of postural sway to sensorimotor function, functional performance, and disability in the elderly. *Archives of Physical Medicine and Rehabilitation* 1996; 77: 567-72.

Hughes MA, et al. Partial weight bearing in the elderly. *Topics in Geriatric Rehabilitation.* 1996; 11(3):1-8.

Schenkman ML, **Hughes MA**, et al. A clinical tool for measuring functional axial rotation. *Physical Therapy* 1995; 75(2): 151-6.

Hughes MA, et al. Postural responses to platform perturbation: kinematics and electromyography. *Clinical Biomechanics* 1995; 10(6): 318-22.



PUBLICATIONS: *(continued:)*

Hughes MA, et al. Chair rise strategies in the elderly. *Clinical Biomechanics* 1995 9(3):187-92.

Duncan PW, Chandler JM, Studenski SA, **Hughes MA**, Prescott BL. How do physiologic components of balance affect mobility in elderly men? *Archives of Physical Medicine and Rehabilitation* 1993; 74(12) 1343-9.

Weiner DK, Long RM, **Hughes MA**, et al. When older adults face the chair rise challenge: A study of chair height availability and height modified chair rise performance in the elderly. *Journal of the American Geriatrics Society* 1993; 41: 6-10.

Hughes MA, et al. Context-sensitive half-time in multicompartment pharmacokinetic models for intravenous anesthetic drugs. *Anesthesiology* 1992; 76(3): 334-341.

BOOK CHAPTERS:

Hughes MA, Abrams RA. Abdominal Radiation. In: *Advanced Therapy in Gastroenterology and Liver Disease*, 5th Edition, 2004.

ABSTRACTS:

Hughes MA, Frassica D, Abrams A. Adjuvant concurrent chemoradiation for adenocarcinoma of the distal common bile duct. Accepted for platform presentation at ASTRO 2005.

Swartz M, Hughes MA, Wilds HB, Frassica D, Abrams A. Adjuvant concurrent chemoradiation for adenocarcinoma of the ampulla of Vater. Presentation at ASTRO 2005.

Lavelly WC, Hughes MA, Leal JP, DeWeese TL, Wahl RL. Implications of patient position using PET/CT images acquired on a standard curved bed vs. a flat bed for radiation therapy treatment planning. Society of Nuclear Medicine Annual Conference, 2005.

Shokek O, Terazakis S, **Hughes MA**, Kleinberg L, Wharam M, Rigamonti D. Hypofractionated Stereotactic Radiotherapy as Primary Treatment of Acoustic Neuroma: Interim Results of the Johns Hopkins Experience. ASTRO 2004.

Hughes MA, Kleinberg L, Parisi M, Grossman S. Low CD4 counts and PCP prophylaxis in patients with primary brain tumors treated with steroids and radiation. *Proceedings of ASCO* 22: 741, 2003.



ABSTRACTS: (*continued:*)

Hughes MA, Kleinberg L, Parisi M, Grossman S. Low CD4 counts and PCP prophylaxis in patients with primary brain tumors treated with steroids and radiation. *Int J Radiat Oncol Biol Phys.* 2003 Oct 1;57(2 Suppl):S369-70.

Shinberg MJ, Laub KC Beischer T, **Hughes MA**, et al. Discriminating between subject groups by using dynamic stability measure. World Physical Therapy Conference, Washington DC, June 1995.

Schenkman ML, **Hughes MA**. Strength and balance control in chair rise. Gerontological Society of America Annual Conference, Atlanta GA, November 1994.

Rose DK, Duncan PW, **Hughes MA**, et al. Postural sway and its' relationship to physical impairment and function. Gerontological Society of America Annual Conference, Washington DC, November 1992.

Cutson TM Gray SL **Hughes MA**. Effect of diazepam on balance measures in the elderly. American Geriatrics Society Annual Conference, Washington DC, November 1992.

Studenski SA, Seigert L, **Hughes MA**. Influence of spine flexibility on stability. American Geriatrics Society Annual Conference, Washington DC, November 1992.

Chandler JM, Duncan PW, Studenski SA, **Hughes MA**, Prescott BL. How do physiologic components of balance affect mobility in elderly men? Gerontological Society of America Annual Conference, Washington DC, November 1992.

Bowden MG, **Hughes MA** et al. Total spinal rotation: A new measure of axial skeleton flexibility. Gerontological Society of America Annual Conference, Washington DC, November 1992.

Prescott BL, Schenkman ML Bowden MG, Hughes MA, et al. Spinal mobility: Age affects and relationship to physical performance. Gerontological Society of America Annual Conference, Washington DC, November 1992.

Schenkman ML, **Hughes MA**, Chandler JM, Studenski SA. Balance response to platform perturbation: young vs old. Gerontological Society of America Annual Conference, Washington DC, November 1992.

Hughes MA, Chandler JM, Schenkman ML, Studenski SA. Biomechanics of postural response to platform perturbation. The Second North American Conference on Biomechanics, August 1992.



ABSTRACTS: (*continued:*)

Isaacs S, Senger P, Chandler JM, **Hughes MA**. Relationship of EMG and kinematic responses to platform perturbation. American Physical Therapy Association Combined Sections Meeting, San Francisco CA, February 1992.

Chandler JM, Duncan PW, Studenski SA, Prescott BL, **Hughes MA**. Does lower extremity strength influence functional reach. American Physical Therapy Annual Conference, Boston MA, June 1991.

Chandler JM, Duncan PW, Studenski SA, Prescott BL, **Hughes MA**. Analysis of center of pressure: A potential for defining motor patterns. American Physical Therapy Annual Conference, Boston MA, June 1991.

Hughes MA, Chandler JM, Duncan PW, Studenski SA. The effect of sliding window averaging on latency. American Physical Therapy Annual Conference, Boston MA, June 1991.

Hughes MA, Long RM, Weiner DK, Chandler JM, Studenski SA. The effect of chair height on chair rise performance in the elderly. American Geriatrics Society Annual Conference, Chicago Il, May 1991.

Prescott BL, Duncan PW, Chandler JM, Studenski SA, **Hughes MA**. Reproducibility of response times for a step test. *Physical Therapy* 1990; 70:5

Unpublished Master's Degree Thesis

Biomechanics of rising from a chair: The role of strength in the frail elderly. Duke University, Department of Biomedical Engineering, September 1994. Advisor, Barry S. Myers, MD, PhD.

GRANTS:

- 1996 Co-investigator, Does intensive physical therapy training improve long term outcomes after stroke? Department of Veterans' Affairs Rehabilitation Research and Development Grant. \$50,000.
- 1995 Co-investigator, Shared Biomedical Research Equipment Fund, University of Kansas Medical Center, \$34,800.
- 1992 Co-investigator, Stability Force Platform Development Grant NIH-SBIR #AG0888902, \$50,000.

