CURRICULUM VITAE

Rodger J. Elble, MD, PhD December 11, 2016

EDUCATION:

1966	East-Alton-Wood River Community High School Wood River, Illinois	
1966-1971	Co-operative engineering program. Purdue University and the McDonnell-Douglas Corp.	
1971	Purdue University W. Lafayette, Indiana B.S. Aeronautical Engineering	B.S.A.E.
1975	Indiana University Bloomington, Indiana Ph.D. Physiology (minor in biochemistry) Thesis: Contribution of Motor Unit Statistics to Physiological Tremor Major Professor: James E. Randall, Ph.D.	Ph.D.
1977	Indiana University School of Medicine Indianapolis, Indiana	M.D.

POSTGRADUATE EDUCATION:

July 1977 - June 1978	Indiana University School of Medicine, Indianapolis, IN Internship, Internal Medicine
July 1978 - June 1981	Washington University School of Medicine, Barnes Hospital Complex, St. Louis, MO. Neurology residency and postdoctoral neuroscience training with W. T. Thach, MD. Topic: Role of cerebellum and stretch reflex in action tremor
June 1987	Biomechanics of Human Movement. Special summer course at Massachusetts Institute of Technology, Laboratory of Prof. Robert W. Mann.

May 15 – Aug 30, 2010	Research sabbatical, Department of Neurology, Prof. Günther Deuschl, Chair, Christian-Albrechts University, Kiel Germany.
LICENSE:	Illinois State Board of Medical Examiners July, 1981-present
BOARD CERTIFIED:	American Board of Psychiatry and Neurology November 1982
HONORS AND AWARDS	
	Phi Eta Sigma Sigma Gamma Tau Tau Beta Pi Phi Kappa Phi Alpha Omega Alpha Best full-time faculty teacher of the year award, Department of Medicine, 1985-86
	Fellow, American Academy of Neurology (1990)
	Best Doctors in America (1996-present) Castle Connolly Top Doctor (2015-present) America's Top Physicians, Consumers' Research Council of America (2006-present)
	Associate, Behavioral and Brain Sciences (1991) IBC Leading Scientists of the World (2008) Who's Who Among Students in American Colleges and Universities (1977) Who's Who in Frontiers of Science and Technology (1985) Who's Who in the Midwest (1988) Who's Who in the Midwest (1988) Who's Who of Emerging Leaders in America (1990) Who's Who in Medicine and Healthcare (1996) Who's Who in America (2002)
	 Pfizer Visiting Professor of Neurology, U. of Arkansas, 2007 Visiting Professor, Oregon Health Science University, 2010 Visiting Professor, University of Saskatchewan, 2013 Outstanding Scholar at SIU School of Medicine, 2014 Outstanding Teaching Award, Dept. Neurology, SIUSM, 2016
MEMBERSHIPS:	American Academy of Neurology Association of University Professors of Neurology Central Society for Neurological Research

	Movement Disorder Society Society for Neuroscience Tremor Research Group Parkinson Study Group Neuroprotection Exploratory Trials in Parkinson Disease (National Institute of Neurological Disorders and Stroke)
POSITIONS HELD:	
June 1966 to June 1971	Student, Cooperative Engineering Program, McDonnell-Douglas Corp. and Purdue U.
Aug. 1971 to Aug. 1974	National Institutes of Health Physiology Training Grant Indiana University, Bloomington, IN
Aug. 1973 to June 1975	Teaching Assistant, Department of Anatomy and Physiology, Indiana University, Bloomington, IN
July 1977 to July 1978	Intern, Department of Internal Medicine, School of Medicine, Indiana University, Indianapolis, IN
July 1978 to July 1981	Resident, Department of Neurology Washington University School of Medicine, Barnes Hospital, St. Louis, MO
July 1981 to July 1987	Assistant Professor of Neurology Southern Illinois University School of Medicine, Springfield, IL
July 1987 to March 1996	Associate Professor of Neurology Southern Illinois University School of Medicine, Springfield, IL
Nov. 1988 to March 1996	Associate Professor of Psychiatry Southern Illinois University School of Medicine, Springfield, IL
Nov. 1988 to Sept. 2007	Director Center for Alzheimer Disease and Related Disorders, Southern Illinois University School of Medicine, Springfield, IL

Sept. 1992 to Feb. 1993	Acting Chief Division of Neurology, Department of Medicine Southern Illinois University School of Medicine, Springfield, IL
July 1993 to 2004	Director Neurology senior student electives
Feb. 1993 to May 1996	Interim Chair Department of Neurology Southern Illinois University School of Medicine, Springfield, IL
Oct. 1993 to 1997	Member, Neurology Study Section A National Institute of Neurological Disorders and Stroke Bethesda, Maryland
July 1994 to 2000	Director, Student Neurology Clerkship Department of Neurology Southern Illinois University School of Medicine Springfield, IL
March 1996 to_June 2014	Professor of Neurology Southern Illinois University School of Medicine
March 1996 to June 2014	Professor of Psychiatry Southern Illinois University School of Medicine
May 1996 to Nov. 2012	Chair of Neurology Southern Illinois University School of Medicine
July 1998 to June 2014	Director, Neurology Residency Program Department of Neurology, Southern Illinois U. School of Medicine
July 1999 to Feb. 2001 March 1, 2004 – July 2005	Director, National Parkinson Foundation Center of Excellence Southern Illinois University School of Medicine
Dec. 2007 – January 2010	Medical Director, Stroke Center, St. John's Hospital
Nov. 2011 – 2013	Neurology Clerkship Director, SIU School of Medicine
March 2004 – present	Director, Parkinson Disease and Movement Disorders Center, SIU School of Medicine

UNIVERSITY COMMITTEES AND SPECIAL ASSIGNMENTS:

Chair	Laboratory Animal Care Committee July 1985 - June 1988
Member	Search committee for the director of Laboratory Animal Resources 1985
Chair	Central Research Committee July 1985 - September 1989
Member	Springfield Committee for Research Involving Human Subjects July 1988 – September 1989
Chair	Springfield Committee for Research Involving Human Subjects September 1989 - November 1992
Member	Ad hoc committee for utilization of laboratory space 1989
Member	Ad hoc committee for review of the Department of Family Practice: 1991
Member	Computing Advisory Committee, 1990
Chair	Alzheimer Center Policy Advisory Committee November 1988 - 2007
Member	University Patents and Copyrights Committee July 1985 - June 1996
Member	Misconduct in Science Committee July 1990 - June 1996
Chair	Misconduct in Science Committee July 1996 - 1998
Member	Research Policy Advisory Committee July 1985 - Sept. 1993
Member	Utilization Review for Memorial Medical Center. 1986 - 1992
Member	LCME Subcommittee for institutional research: 1992

Member	Clinical Chairs' Committee Feb. 1993 -2012
Member	Executive Committee, Feb 1993 – 2012
Member	Medical Service and Research Plan Committee April 1993 – November 1997
Member	Student Progress System Subcommittee on Appeals July 1994 - 2001
Member	Search Committee, Chair of Neurology 1994
Member	Search Committee, Chair of Internal Medicine 1995
Member	ad hoc Committee, Scholars in Biomedical Research Program 1998
Member	Graduate Medical Education Committee 1998 - 2014
Member	LCME task force subcommittee for graduate education in the basic sciences and research. 1998
Member	Curriculum 2000 workgroup on integration of basic sciences and clinical medicine. 1999
Chair	Curriculum 2000 neuroscience clerkship committee. 1999
Member	Internal Medicine and Pulmonary Medicine Internal Review Committee, 1999
Chair	Dept of Neurology, St. John's Hospital, Springfield, IL, 2000-2012
Member	Student Progress Committee, 2001-2005
Member	Department of Medicine Research Development Task Force. September 2001-2002
Member	Dean and Provost search committee. November 2001-June 2002

Member	General Surgery Internal Review Committee, 2002
Chair	Chair of Psychiatry search committee, August 2002-November 2002
Chair	SIUSOM grant overhead committee, June 2003-November 2003
Member	Associate Dean for Research search committee, Sept. 2004-Dec. 2004
Chair	Psychiatry Residency internal review committee, November 2004- February 2005
Member	Translational research task force, December 2007 – May 2008

OFFICES IN PROFESSIONAL ORGANIZATIONS

Oct. 1993-Oct. 1996	Secretary-Treasurer, Central Society for Neurological Research
Oct. 1996-Oct. 1997	President, Central Society for Neurological Research
May 2004-Feb. 2013	President, Tremor Research Group

COMMITTEES IN PROFESSIONAL SOCIETIES

American Academy of Neurology Clinical Practice Committee, Geriatric	
Neurology and Dementia Section	Member, 1998-2007
Movement Disorder Society	
Membership committee	Member, 1998-2000
European Union Project NeuroTREMOR	Scientific Advisory Board May 2011-2013
Parkinson Study Group	-
Credentials Committee	Member, 2011-2015
Tremor Rating Scale Task Force	
Movement Disorder Society	Chair, September 2011-2014
Tremor Task Force	
Movement Disorder Society	Chair, August 2011 - present
Task Force: European Recommendations on the Diagnosis and Management of Essential Tremor	External scientific advisor
European Federation of Neurological Societies	Feb 2012 - 2015

PROFESSIONAL ADVISORY BOARDS

International Essential Tremor Foundation, Kansas City, KS	Member, Medical Advisory Board, 1988 - present
Alzheimer's Disease and Related Disorders Association, Springfield Chapter	Member, Medical Advisory Board, 1986 - 2007
BlueCross-BlueShield of Illinois	Medical Consultant, 1998 - 2003
Spastic Paralysis Research Foundation Kiwanis International, Illinois-Eastern Iowa District	Medical Director, 2010 - <u>present</u>
RESEARCH STUDY GROUPS	

Tremor Research Group	2001 - <u>present</u>
NINDS NET-PD Study Group	2003 - 2014

Parkinson Study Group	2005 – <u>present</u>
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CERTIFICATIONS (date of recertification)

NIH Stroke Scale	November 4, 2010
ABCD2 Scale	November 4, 2010
Modified Rankin Scale	November 4, 2010
UPDRS	November 4, 2011

GRANT REVIEWS

National Institute of Neurological Diseases and Stroke	Special Reviewer, Neurology Study Section A, October 1992 - October 1993 Regular Member, October 1993 - October 1996. Reserve member, October 1996 - 1997
Louisiana Board of Regents	2013
National Institute on Aging	Special study section member (Locomotor Impairment and Falls in the Elderly), March 1986.
National Institute on Deafness and Other Communicative Diseases	Ad hoc grant reviewer, 1998
NIH, SBIR (BBBP-1)	Ad hoc grant reviewer, 2001
NIH, Clinical Neuroscience and Neurodegeneration Study Section	Reviewer, 2013 - 2015
National Science Foundation	Ad hoc grant reviewer, 1984
Veterans Administration	Ad hoc grant reviewer, 1986, 2000, 2003
Spinal Cord Research Foundation Paralyzed Veterans of America	Ad hoc grant reviewer, 1997
Illinois Department of Public Health	Ad hoc grant reviewer, 1996
International Tremor Foundation	Ad hoc grant reviewer, 1997
International Essential Tremor Foundation	Grant reviewer, 2005-present

Prinses Beatrix Fonds	Grant reviewer, 2010
German Ministry of Education and Research	Grant reviewer, 2010
Alzheimer Research Alliance of Oregon	Ad hoc grant reviewer, 1995
United States-Israel Binational Science Foundation	Ad hoc grant reviewer, 1997, 2006, 2007
University of Texas Health Science Center at San Antonio	Ad hoc grant reviewer, 2000
Natural Sciences and Engineering Research Council of Canada	Ad hoc grant reviewer, 1998
The Wellcome Trust, London UK Joint Infrastructure Fund	Ad hoc grant reviewer, 1999, 2003, 2007
Michael J Fox Foundation	Ad hoc grant reviewer, 2014
Netherlands Brain Foundation (Hersenstichting)	Ad hoc grant reviewer, 2016

EDITORIAL BOARDS OF PROFESSIONAL JOURNALS

Movement Disorders	November 1992 - November 1996 January 1998 – January 2002
Tremor and Other Hyperkinetic Movements	November 2014 - <u>present</u>

REFEREE SERVICE FOR PROFESSIONAL JOURNALS AND PUBLISHERS

Acta Neurologica Scandinavica American Academy of Neurology Annals of Biomedical Engineering Annals of Neurology Archives of Neurology Behavioral and Brain Sciences Behavioral Brain Research Biological Cybernetics BioMed Central **BMJ** Open Brain **Brain Research Brain Stimulation Cerebral Cortex** Chronic Illness **Cleveland Clinic Journal** Clinical Neuropharmacology Clinical Neurophysiology Electroencephalography and Clinical Neurophysiology **Engineering Science and Technology** Experimental Aging Research **Experimental Brain Research** European Journal of Neurology European Journal of Applied Physiology European Journal of Applied Physiology and Occupational Physiology F.A. Davis (book reviews) Human Movement Science IEEE Press (Institute of Electrical and Electronics Engineers, Inc.) (book reviews) International Journal of Neuroscience Journal of Applied Physiology Journal of Clinical Investigation Journal of Clinical Movement Disorders Journal of Electromyography and Kinesiology Journal of Motor Behavior Journal of Neurology Journal of Neurophysiology Journal of Neural Transmission Journal of Neurological Sciences Journal of Neurology, Neurosurgery and Psychiatry Journal of NeuroRehabilitation and Engineering Journal of Neuroscience Journal of Neuroscience Methods Journal of Parkinson's Disease Journal of Physiology Journal of Theoretical Biology Lancet Lancet Neurology Lippincott - Raven Publishers (book reviews) Medical & Biological Engineering & Computing Medical Engineering and Technology Motor Control Movement Disorders Movement Disorders Clinical Practice Neurodegenerative Disease Management

Neuroepidemiology Neurology Neurorehabilitation and Neural Repair Neurotherapeutics Neurotoxicology and Teratology New England Journal of Medicine Parkinson's Disease Parkinsonism & Related Disorders Perceptual and Motor Skills PLOS ONE Progress in Neurobiology **Psychological Reports** Psychopharmacology Science Stroke Teaching and Learning in Medicine Transactions on Neural Systems and Rehabilitation Engineering Tremor and Other Hyperkinetic Movement Disorders The Cerebellum

PUBLICATIONS:

Papers in peer-reviewed journals:

- 1. <u>Elble</u> RJ, Randall JE. 1976. Motor unit activity responsible for the 8- to 12-Hz component of human physiological finger tremor. <u>J Neurophysiol</u> 39:370-383.
- 2. <u>Elble</u> RJ, Randall JE. 1978. Mechanistic components of normal hand tremor. <u>Electroenceph Clin Neurophysiol</u> 44:72-82.
- Kapila A, <u>Elble</u> R, Ratcheson RA, Burde R, Gado M. 1982. Radiologic demonstration of the dorsal medullocervical spur in adult Chiari malformation. <u>J Clin Neuro-</u> <u>Ophthalmology</u> 2:235-240.
- 4. <u>Elble</u> RJ, Schieber MH, Thach WT. 1984. Activity of muscle spindles, motor cortex and cerebellar nuclei during action tremor. <u>Brain Res</u> 323:330-334.
- 5. <u>Elble</u> RJ. 1986. Physiologic and essential tremor. <u>Neurology</u> 36:225-231.
- 6. <u>Elble</u> RJ, Higgins C, Moody C. 1987. Stretch reflex oscillations and essential tremor. <u>J Neurol Neurosurg Psychiatry</u> 50:691-698.
- 7. <u>Elble</u> RJ, Giacobini E, Scarsella GF. 1987. Cholinesterases in cerebrospinal fluid: a longitudinal study in Alzheimer disease. <u>Arch Neurol</u> 44:403-407.

- 8. Norfray JF, Couch JR, <u>Elble</u> RJ, Good DC, Manyam BV, Patrick JL. 1988. Visualization of brain iron by mid-field MR. <u>Am J Neuroradiol</u> 9:77-82.
- 9. Becker R, Giacobini E, <u>Elble</u> R, McIlhany M, Sherman K. 1988. Potential pharmacotherapy of Alzheimer disease: a comparison of various forms of physostigmine administration. <u>Acta Neurol Scandinav</u> 77(suppl 116):19-29.
- 10. <u>Elble</u> RJ, Giacobini E, Higgins C. 1989. Choline levels are increased in cerebral spinal fluid of Alzheimer patients. <u>Neurobiol of Aging</u> 10:45-50.
- 11. <u>Elble</u> RJ, Moody C, Higgins C. 1990. Primary writing tremor: a form of focal dystonia? <u>Movement Disorders</u> 5:118-126.
- 12. Becker RE, Colliver J, <u>Elble</u> RJ, et al. 1990. Effects of metrifonate, a long-acting cholinesterase inhibitor, in Alzheimer disease: a report of an open trial. <u>Drug</u> <u>Development Res</u> 19:425-434.
- 13. <u>Elble</u> RJ, Sinha R, Higgins C. 1990. Quantification of tremor with a digitizing tablet. <u>J</u> <u>Neurosci Methods</u> 32:193-198.
- 14. ¹<u>Elble</u> RJ, Thomas SS, Higgins C, Colliver J. 1991. Stride-dependent changes in gait of older people. <u>J Neurol</u> 238:1-5.
- 15. <u>Elble</u> RJ. 1991. Inhibition of forearm EMG by palatal myoclonus. <u>Mov Disord</u> 6:324-329.
- 16. <u>Elble</u> RJ, Higgins C, Hughes L. 1992. The syndrome of senile gait. <u>J Neurol</u> 239:71-75.
- 17. <u>Elble</u> RJ, Higgins C, Hughes L. 1992. Longitudinal study of essential tremor. <u>Neurology</u> 42:441-443.
- 18. <u>Elble</u> RJ, Higgins C, Hughes L. 1992. Phase resetting and frequency entrainment of essential tremor. <u>Exp Neurol</u> 116:355-361.
- 19. Brilliant M, <u>Elble</u> RJ, Ghobrial M, Struble RG. 1992. Distribution of amyloid in the brainstems of patients with Alzheimer disease. <u>Neurosci Lett</u> 148:23-26.
- 20. <u>Elble</u> RJ, Moody C, Leffler K, Sinha R. 1994. The initiation of normal walking. <u>Mov</u> <u>Disord</u> 9:139-146.
- 21. <u>Elble</u> RJ, Higgins C, Hughes L. 1994. Essential tremor entrains rapid voluntary movements. Exp Neurol 126:138-143.
- 22. <u>Elble</u> RJ, Higgins C, Leffler K, Hughes L. 1994. Factors influencing the amplitude and frequency of essential tremor. <u>Mov Disord</u> 9:589-596.

¹ Selected for review in Sports Medicine Digest, 1992

- 23. ²Brilliant M, Hughes L, Anderson D, Ghobrial M, <u>Elble</u> R. 1995. Rarefied white matter in patients with Alzheimer disease. <u>Alzheimer Disease Related Disorders</u> 9:39-46.
- 24. <u>Elble</u> RJ, Brilliant M, Leffler K, Higgins C. 1996. Quantification of essential tremor in writing and drawing. <u>Mov Disord</u> 11:70-78.
- 25. Qureshi F, Morales A, <u>Elble</u> RJ. 1996. Tremor due to infarction in the ventrolateral thalamus. <u>Mov Disord</u> 11:440-444.
- 26. <u>Elble</u> RJ, Cousins R, Leffler K, Hughes L. 1996. Gait initiation by patients with lowerhalf parkinsonism. <u>Brain</u> 119:101-112.
- Brilliant MJ, <u>Elble</u> RJ, Ghobrial M, Struble RG. 1997. Distribution of amyloid β–protein deposition in the corpus striatum of patients with Alzheimer's disease. Neuropath Applied Neurobiol 23:322-325.
- 28. Bashir K, <u>Elble</u> RJ, Ghobrial M, Struble RG, Brilliant M. Hemianopsia in dementia with Lewy bodies. Arch Neurol 1998;55:1132-1135.
- 29. <u>Elble</u> RJ. Tremor in ostensibly normal elderly people. Mov Disord 1998;13:457-464.
- Zec RF, Landreth ES, Belman J, Fritz S, Hasara A, Fraizer W, Wainman S, McCool M, Grames E, O'Connell C, Harris R, Robbs R, Elble R, Manyam B. 1999. A comparison of phonemic, semantic, and alternating word fluency in Parkinson disease. Arch Clin Neuropsychol 14:255-264.
- 31. Matthews B, Zec RF, Elble RJ, Markwell SJ. Global executive functioning is commensurate with global cognitive functioning in PD. Arch Clin Neuropsychol 1999;14:634-5
- 32. Zec RF, Matthews B, Vost KG, Markwell SJ, Elble RJ. A comparison of mild AD patients and nondemented PD patients on the FLOPS. Arch Clin Neuropsychol 1999;14:622
- ³Henderson VW, Paganini-Hill A, Miller BL, <u>Elble</u> RJ, Reyes PF, Shoupe D, McCleary CA, Klein RA, Hake AM, Farlow MR. 2000. Estrogen for Alzheimer's disease in women: randomized, double-blind, placebo-controlled trial. Neurology 54:295-301.
- 34. <u>Elble</u> RJ, Leffler K. 2000. Pushing and pulling with the upper extremities while standing: the effects of mild Alzheimer dementia and Parkinson disease. Mov Disord;15:255-268.
- 35. <u>Elble</u> RJ. 2000. Essential tremor frequency decreases with time. Neurology 55:1547-1551.

² Selected for review in the 1995 Parkinson/Alzheimer Digest, PMSI Bugamor, The Netherlands.

³ Selected for expedited publication

- 36. Ala TA, Hughes LF, Kyrouac GA, Ghobrial MW, <u>Elble</u> RJ. 2001. Pentagon copying is more impaired in dementia with Lewy bodies than in Alzheimer's disease. J Neurol Neurosurg Psychiatry 70:483-488.
- Kovach MJ, Ruiz J, Kimonis K, Mueed S, Sinha S, Higgins C, Elble S, <u>Elble</u> R, Kimonis VE. 2001. Genetic heterogeneity in autosomal dominant essential tremor. Genetics Medicine 3:197-199.
- Ala TA, Hughes LF, Kyrouac GA, Ghobrial MW, <u>Elble</u> RJ. The Mini Mental State Exam may help in the differentiation of dementia with Lewy bodies and Alzheimer's disease. International Journal of Geriatric Psychiatry 2002;17:503-509.
- 39. <u>Elble</u> RJ. Characteristics of physiologic tremor in young and elderly adults. Clin Neurophysiol 2003;114:624-635
- 40. Ala TA, Hughes LF, Kyrouac GA, Ghobrial MW, Elble RJ. The Mini-Mental State exam may help in the differentiation of dementia with Lewy bodies and Alzheimer's disease. Research and Practice in Alzheimer's Disease. 2003;7:231-235.
- 41. Elble RJ, Higgins C, Elble S. Electrophysiologic transition from physiologic tremor to essential tremor. Mov Disord 2005;20:1038-1042.
- 42. Zesiewicz TA, Elble R, Louis ED, Hauser RA, Sullivan KL, Dewey RB Jr, Ondo W, Gronseth GS, Weiner WJ. Practice Parameter: Therapies for Essential Tremor (An Evidence Based Review). Report of the Quality Standards Subcommittee of the American Academy of Neurology. Neurology 2005;64:2008-2020.
- 43. Elble RJ. Gravitational artifact in accelerometric measurements of tremor. Clin Neurophysiol 2005;116:1638-1643.
- 44. Ondo WG, Jankovic J, Connor GS, Pahwa R, Elble R, Stacy MA, et al. Topiramate in essential tremor. Neurology 2006;66:672-7.
- 45. Pyo G, Elble RJ, Ala T, Markwell SJ. The characteristics of patients with uncertain/mild cognitive impairment on the Alzheimer's Disease Assessment Scale. Alzheimer Dis Assoc Disord 2006;20:16-22
- 46. Shatunov A, Sambuughin N, Jankovic J, Elble R, Lee HS, Singleton AB, Dagvadorj A, Ji J, Zhang Y, Kimonis VE, Hardy J, Hallett M, Goldfarb LG. Genomewide scans in American families reveal genetic linkage of essential tremor to a region on chromosome 6p23. Brain 2006;129:2318-31
- 47. Elble RJ, Pullman SL, Matsumoto J, Raethjen J, Deuschl G, Tintner R. Tremor amplitude is logarithmically related to 4- and 5-point tremor rating scales. Brain 2006;129:2660-6

- 48. Stacy MA, Elble RJ, Ondo WG, Wu S-C, and Hulihan J, for the *TRS Study Group. Assessment of Inter-Rater and Intra-Rater Reliability of the Fahn-Tolosa-Marín Tremor Rating Scale (TRS) in Essential Tremor. Mov Disord 2007;22:833-8.
- 49. Elble RJ, Lyons KE, Pahwa R. Levetiracetam is not effective for essential tremor. Clin Neuropharmacol 2007;30:350-356.
- 50. Goetz CG, Stebbins GT, Wolff D, Deleeuw W, Bronte-Stewart H, Elble R, Hallett M, Nutt J, Ramig L, Sanger T, Wu AD, Kraus PH, Blasucci LM, Shamim EA, Sethi KD, Spielman J, Kubota K, Grove AS, Dishman E, Taylor CB. Testing objective measures of motor impairment in early Parkinson's disease: Feasibility study of an at-home testing device. Mov Disord 2009;24:551-556.
- 51. Louis ED, Faust PL, Vonsattel JPG, Honig LS, Rajput A, Rajput A, Pahwa R, Lyons KE, Ross GW, Elble RJ, Erickson-Davis C, Moskowitz CB, Lawton A. Torpedoes in Parkinson's disease, Alzheimer's disease, essential tremor, and control brains. Mov Disord 2009;24:1600-1605.
- 52. Elble RJ, Biondi DM, Ascher S, Wiegand F, Hulihan J. Carisbamate in essential tremor: brief report of a proof of concept study. Mov Disord 2010;25:634-8.
- 53. Elble RJ, Suchowersky O, Shaftman S, Weiner WJ, Huang P, Tilley B, on behalf of the NINDS NET-PD investigators. Impact of belief in neuroprotection on therapeutic intervention in Parkinson disease. Mov Disord 2010;25:1082-6.
- 54. Fasano A, Herzog J, Raethjen J, Rose FEM, Muthuraman M, Volkmann J, Falk D, Elble R, Deuschl G. Gait ataxia in essential tremor is differentially modulated by thalamic stimulation. Brain 2010;133:3635-48.
- 55. Heldman DA, Jankovic J, Vaillancourt DE, Prodoehl J, Elble RJ, Giuffrida JP. Essential tremor quantification during activities of daily living. Parkinsonism Relat Disord 2011;17:537-42.
- 56. Zesiewicz TA, Elble RJ, Louis ED, Gronseth GS, Ondo WG, Dewey RB, Jr., et al. Evidence-based guideline update: Treatment of essential tremor: Report of the Quality Standards Subcommittee of the American Academy of Neurology. Neurology 2011;77:1752-5.
- 57. Muthuraman M, Heute U, Arning K, Anwar AR, Elble R, Deuschl G, Raethjen J. Oscillating central motor networks in pathological tremors and voluntary movements. What makes the difference? Neuroimage 2012;60:1331-1339.
- 58. Elble R, Comella C, Fahn S, et al. Reliability of a new scale for essential tremor. Mov Disord 2012;27:1567-1569.

- Zesiewicz TA, Sullivan KL, Hinson V, Stover NP, Fang J, Jahan I, Miller A, Carranza MA, Elble R. Multisite, double-blind, randomized, controlled study of pregabalin for essential tremor. Mov Disord 2013;28:249-50
- 60. Elble R, Bain P, Joao Forjaz M, et al. Task force report: Scales for screening and evaluating tremor: Critique and recommendations. Mov Disord 2013;28:1793-800.
- 61. Kaul S, Elble RJ. Impaired pentagon drawing is an early predictor of cognitive decline in Parkinson's disease. Mov Disord 2014;29:427-8.
- 62. Bhargava P, Elble RJ. Clinical Reasoning: An unusual cause of transverse myelitis? Neurology 2014;82:e46-50.⁴
- 63. Forjaz MJ, Ayala A, Testa CM, Bain PG, Elble R, Haubenberger D, Rodriguez-Blazquez C, Deuschl G, Martinez-Martin P. Proposing a Parkinson's disease specific tremor scale from the MDS-UPDRS. Mov Disord. 2015;30:1139-1143.
- 64. Bhargava P, Siddiqui F, Aggarwal B, Moore BE, Elble RJ. A unique case of intravascular lymphoma mimicking encephalomyeloradiculoneuropathy. Neurologist 2015;20:18-21.
- 65. Elkouzi A, Kattah JC, Elble RJ. Hypertrophic olivary degeneration does not reduce essential tremor. Movement Disorders Clinical Practice. 2016;3 (2):209-211
- 66. Haubenberger D, Abbruzzese G, Bain PG, et al. Transducer-based evaluation of tremor. Mov Disord 2016;31(9):1327-36.
- 67. Elble RJ. The Essential Tremor Rating Assessment Scale. J Neurol Neuromed 2016;1(4):34-38.

Other papers from multicenter trials

- Elm JJ, Goetz CG, Ravina B, Shannon K, Wooten GF, Tanner CM, Palesch YY, Huang P, Guimaraes P, Kamp C, Tilley BC, Kieburtz K; NET-PD Investigators.⁵ A responsive outcome for Parkinson's disease neuroprotection futility studies. Ann Neurol. 2005;57:197-203.
- 2. The NINDS NET-PD Investigators.⁴ A phase II, randomized, double blinded, futility clinical trial of creatine and minocycline in early Parkinson's disease. Neurology 2006;66:664-71
- 3. Tilley BC, Palesch YY, Kieburtz K, Ravina B, Huang P, Elm JJ, Shannon K, Wooten GF, Tanner CM, Goetz CG on behalf of the NET-PD Investigators.⁴ Optimizing the ongoing search for new treatments for Parkinson's disease using futility designs. Neurology 2006 2006;66:628-33.

⁴ Winner of the 2015 Neurology® Resident and Fellow Writing Award

⁵ R. Elble, contributing investigator

- 4. The NINDS NET-PD Investigators.⁴ A Randomized Clinical Trial of Coenzyme Q10 and GPI-1485 in Early Parkinson's Disease. Neurology 2007;68:20–28
- 5. Elm JJ, Kamp C, Tilley BC, et al.⁴ Self-reported adherence versus pill count in Parkinson's disease: the NET-PD experience. Mov Disord 2007;22:822-827.
- 6. Goetz CG, Tilley BC, Shaftman SR, et al.⁴ Movement Disorder Society-sponsored revision of the Unified Parkinson's Disease Rating Scale (MDS-UPDRS): scale presentation and clinimetric testing results. Mov Disord 2008;23(15):2129-2170.
- 7. The NINDS NET-PD Investigators.⁴ A pilot clinical trial of creatine and minocycline in early Parkinson disease: 18-month results. Clin Neuropharmacol 2008;31:141-50.
- Olanow CW, Rascol O, Hauser R, Feigin PD, Jankovic J, Lang A, Langston W, Melamed E, Poewe W, Stocchi F, Tolosa E, for the ADAGIO Study Investigators.⁶ A double-blind, delayed-start trial of rasagiline in Parkinson's disease. N Engl J Med 2009;361:1268-1278.
- Fernandez HH, Greeley DR, Zweig RM, Wojcieszek J, Mori A, Sussman NM; 6002-US-051 Study Group.⁷ Istradefylline as monotherapy for Parkinson disease: results of the 6002-US-051 trial. Parkinsonism Relat Disord 2010;16:16-20.
- Simon DK, Pankratz N, Kissell DK, Pauciulo MW, Halter CA, Rudolph A, Pfeiffer RF, Nichols WC, Foroud T; Parkinson Study Group-PROGENI Investigators.⁸ Maternal inheritance and mitochondrial DNA variants in familial Parkinson's disease. BMC medical genetics. 2010;11:53.
- 11. Kieburtz K and The Parkinson Study Group PramiBID Investigators.⁹ Twice-daily, lowdose pramipexole in early Parkinson's disease: A randomized, placebo-controlled trial. Mov Disord 2011;26:37-44.
- 12. Pankratz N, Beecham GW, DeStefano AL, Dawson TM, Doheny KF, Factor SA, Hamza TH, Hung AY, Hyman BT, Ivinson AJ, Krainc D, Latourelle JC, Clark LN, Marder K, Martin ER, Mayeux R, Ross OA, Scherzer CR, Simon DK, Tanner C, Vance JM, Wszolek ZK, Zabetian CP, Myers RH, Payami H, Scott WK, Foroud T; PD GWAS Consortium¹⁰. Meta-analysis of Parkinson's disease: identification of a novel locus, RIT2. Ann Neurol 2012;71:370-84

⁶ R. Elble, investigator

⁷ R. Elble, investigator

⁸ R. Elble, investigator

⁹ R. Elble, investigator

¹⁰ R. Elble, investigator

- 13. Elm JJ and the NINDS NET-PD Investigators¹¹. Design innovations and baseline findings in a long-term Parkinson's trial: The national institute of neurological disorders and stroke exploratory trials in Parkinson's Disease Long-Term Study-1. Mov Disord 2012;27:1513-1521.
- Parashos SA, Luo S, Biglan KM, et al.¹² Measuring Disease Progression in Early Parkinson Disease: The National Institutes of Health Exploratory Trials in Parkinson Disease (NET-PD) Experience. JAMA Neurology 2014;71:710-716.
- Smith KM, Eyal E, Weintraub D.¹³ Combined rasagiline and antidepressant use in Parkinson disease in the ADAGIO study: effects on nonmotor symptoms and tolerability. JAMA Neurology 2015;72:88-95.

Invited editorial-reviews in peer-reviewed journals:

- 1. Kissel JT, <u>Elble</u> RJ. Stiff-person syndrome: stiff opposition to a simple explanation. Neurology 1998;51:11-14.
- 2. <u>Elble</u> RJ. Origins of tremor. Lancet 2000;355:1113-1114.
- 3. <u>Elble</u> RJ. Motion analysis to the rescue? Mov Disord 2000;15:595-597.
- 4. <u>Elble</u> RJ. Essential tremor is a monosymptomatic disorder. Mov Disord 2002;17: 633-637.
- 5. Elble R, Dubinsky R, Ala T. Alzheimer disease and essential tremor finally meet. Mov Disord 2007;22:1525-7
- Elble RJ. Mechanisms of deep brain stimulation for essential tremor. Brain 2014;137:4 6.

Review Articles:

- 1. <u>Elble</u> RJ. Essential tremor. 1986. Federazione Medica 39:665-668.
- 2. <u>Elble</u> RJ. 1987. Physiologic and pathologic tremors: a holistic view. <u>Encyclopedia</u> <u>Medica Italiana</u>.
- 3. <u>Elble</u> RJ, Caiyun Q. 1993. The early diagnosis and pathophysiology of Alzheimer disease. <u>Chinese J Nervous Mental Diseases</u> 19:251-253.

¹¹ R. Elble, investigator

¹² R. Elble, investigator

¹³ R. Elble, investigator

- 4. <u>Elble</u> RJ. 1995. The role of aging in the clinical expression of essential tremor. Exp Gerontol 30:337-347.
- 5. <u>Elble</u> RJ. 1996. Central mechanisms of tremor. <u>J Clin Neurophysiol</u> 13:133-144.
- 6. <u>Elble</u> RJ. 1997. Syndromes of impaired mobility. In: Knopman, D, ed. <u>Continuum:</u> <u>Geriatric Neurology</u>. American Academy of Neurology.
- 7. <u>Elble</u> RJ. 1998. Animal models of action tremor. Mov Disord 13(suppl 3):35-39.
- 8. Deuschl G, Bain P, Brin M, ad hoc Scientific Committee (including R. <u>Elble</u>). Consensus statement of the Movement Disorder Society on Tremor. Mov Disord 1998;13(suppl 3):2-23.
- 9. Deuschl G, <u>Elble</u> RJ. The pathophysiology of essential tremor. Neurology. 2000;54(11 Suppl 4):S14-20.
- 10. <u>Elble</u> RJ. Diagnostic criteria for essential tremor and differential diagnosis. Neurology. 2000;54(11 Suppl 4):S2-6.
- 11. Bain P, Brin M, Deuschl G, <u>Elble</u> R, Jankovic J, Findley L, Koller WC, Pahwa R. Criteria for the diagnosis of essential tremor. Neurology. 2000;54(11 Suppl 4):S7.
- 12. ¹⁴Litvan I and participants (including R. <u>Elble</u>) in the First International Brainstorming Conference on PSP. 2000. Research goals in progressive supranuclear palsy. Mov Disord 15:446-458.
- 13. <u>Elble</u> RJ. Tremor and dopamine agonists. Neurology 2002;58(Suppl 1):S57-S62.
- 14. Lyons K, Pahwa R, Comella C, Eisa M, <u>Elble</u> R, Fahn S, Jankovic J, Juncos J, Koller W, Ondo W, Sethi K, Stern M, Tanner C, Tintner R, Watts R. Benefits and risks of pharmacological treatments for essential tremor. Drug Saf. 2003;26(7):461-81.
- 15. Pahwa R, Lyons KE (Elble RJ, contributing author). 2003. Essential tremor: differential diagnosis and current therapy. Am J Med;115:134-142.
- 16. Elble RJ for the Tremor Research Group and Consensus Conference Attendees. Report from a US Conference on Essential Tremor. Mov Disord 2006;21:2052-2061
- 17. Elble RJ. Gait and dementia: moving beyond the notion of gait apraxia. J Neural Transmission 2007;114:1253-8.
- 18. Elble RJ, Deuschl G. An update on essential tremor. Current Neurology and Neuroscience Reports 2009;9:273-277.

¹⁴ Invited participant and contributor

- 19. Elble RJ. Tremor: Clinical Features, Pathophysiology and Treatment. Neurologic Clinics 2009;27:679–695.
- 20. Deuschl G, Elble RJ. Essential tremor -- neurodegenerative or non-degenerative disease. Towards a working definition of ET. Movement Disorders 2009;24:2033-41.
- 21. Deuschl G, Raethjen J, Hellriegel H, Elble R. Treatment of patients with essential tremor. Lancet Neurol 2011;10:148-161.
- 22. Elble R, Deuschl G. Milestones in tremor research. Mov Disord 2011;26:1096-1105.
- 23. Carranza MA, Snyder MR, Elble RJ et al. Methodological issues in clinical drug development for essential tremor. Tremor Other Hyperkinetic Movements 2012; 2.
- 24. Elble R. Defining dystonic tremor. Current Neuropharmacology 2013;11: 48-52
- 25. Elble R. What is essential tremor? Curr Neurol Neurosci Rep 2013;13: 353-361
- 26. Elble RJ. Tremor disorders. Curr Opin Neurol 2013;26:413-419.
- 27. Elble RJ, McNames J. Using portable transducers to measure tremor severity. Tremor Other Hyperkinet Mov 2016; 6. doi: 10.7916/D8DR2VCC
- 28. Elble RJ. The essential tremor syndromes. Curr Opin Neurol 2016;29(4):507-12
- 29. Hopfner F, Haubenberger D, Galpern WR, Gwinn K, Van't Veer A, White S, et al. Knowledge gaps and research recommendations for essential tremor. Parkinsonism Relat Disord. 2016.

Clinical Notes:

- 1. <u>Elble</u> RJ. 1983. Intracerebral hemorrhage with herpes zoster ophthalmicus. Ann Neurol 14:591-592.
- 2. <u>Elble</u> RJ. 1983. Post-traumatic headaches? Clini-Pearls 6:3-4.
- 3. <u>Elble</u> RJ. 1992. Stride-dependent changes in gait of older people. Sports Medicine Digest 1:7-8.

Letters:

- 1. <u>Elble</u> RJ. 1982. Physiologic hand tremor. <u>Arch Neurol</u> 39:737-738.
- 2. <u>Elble</u> RJ. 1983. Peripheral neuropathies and tremor. <u>Neurology</u> 33:1389.

- 3. Smith RC, Kumar V, Khera G, <u>Elble</u> R, Giacobini E, Colliver J. 1988. Brain morphological measures and CSF acetylcholine in Alzheimer dementia. <u>J Psychiat Res</u> 23:111-114.
- 4. Ala TA, Hughes LF, Kyrouac GA, Ghobrial MW, <u>Elble</u> RJ. 2004. Use of the MMSE to differentiate Alzheimer's disease from dementia with Lewy bodies- response to Larner. Int J Geriatr Psychiatry. 19:1209-10.
- 5. Shatunov A, Jankovic J, <u>Elble</u> R, Sambuughin N, Singleton A, Hallett M, et al. A variant in the HS1-BP3 gene is associated with familial essential tremor. Neurology 2005;65(12):1995; author reply 1995.
- 6. Bhargava P, Elble RJ. Clinical reasoning: an unusual cause of transverse myelitis? Author response. Neurology 2014;83:666-667.

Books:

1. Elble RJ, Koller WC. 1990. Tremor. Baltimore: Johns Hopkins University Press.

Book Chapters:

- Thach WT, Schieber MH, Gilbert PFC, <u>Elble</u> RJ. 1982. Cerebellar learning in limb movement? In: Woody CD (ed), <u>Conditioning: Representation of Involved Neural</u> <u>Functions</u>. New York: Plenum Press, pp 401-416.
- Thach WT, Schieber MH, <u>Elble</u> RJ. 1984. Motor programs: trajectory versus stability. In: Bloedel JR, Dichgans J, Precht W (eds), <u>Cerebellar Functions</u>. Berlin: Springer Verlag, pp 36-51.
- 3. Giacobini E, Becker R, <u>Elble</u> R, Mattio T, McIlhany M. 1986. Acetylcholine metabolism in brain: is it reflected by CSF changes? In: Fisher A, Hanin I, Lachman C (eds), <u>Alzheimer's and Parkinson's Diseases</u>, New York: Plenum Press, pp 309-316.
- 4. Giacobini E, Becker R, <u>Elble</u> R, Mattio T, McIlhany M. 1986. Brain acetylcholine-a view from the cerebrospinal fluid, In: Dun N (ed), <u>Neurobiol of Acetylcholine</u>, Plenum Press.
- Sherman KA, Kumar V, Ashford JW, Murphy JW, <u>Elble</u> RJ, Giacobini E. 1987. Effect of oral physostigmine in senile dementia patients: utility of blood cholinesterase inhibition and neuroendocrine responses to define pharmacokinetics and pharmacodynamics, In: Strong R, Wood WG, Burke J (eds), <u>Central Nervous System Disorders of Aging: Clinical</u> <u>Intervention and Research</u>. New York: Raven Press.

- <u>Elble</u> RJ, Giacobini E, Becker R, Zec R, Vicari S, Womack C, Williams E, Higgins C. 1988. Treatment of Alzheimer dementia with steady-state infusion of physostigmine. In: Becker E, Giacobini E (eds), <u>Current Research in Alzheimer Therapy</u>, New York: Taylor & Francis, Inc., pp 123-139.
- Giacobini E, <u>Elble</u> RJ. 1990. Markers of cholinergic dysfunction in Alzheimer disease. In: Fowler CJ, Carlson LA, Gottfries C-G, Winblad B (eds). <u>Biological Markers in</u> <u>Dementia of Alzheimer Type.</u> Nishimura: Smith-Gordon, pp 107-120.
- 8. <u>Elble</u> RJ. 1990. Early diagnosis of Alzheimer disease. In: Becker E, Giacobini E (eds). <u>Current Research in Alzheimer Therapy II: Early Diagnosis</u>. New York: Taylor and Francis, 19-30.
- 9. Giacobini E, Sugaya K, <u>Elble RJ</u>. 1990. Markers of cholinergic dysfunction in Alzheimer disease. In: Becker E, Giacobini E (eds). <u>Current Research in Alzheimer</u> <u>Therapy II: Early Diagnosis</u>. New York: Taylor and Francis, 137-156.
- 10. <u>Elble</u> RJ. 1992. Tremor. <u>Neuroscience Year</u>: Supplement 3 to the Encyclopedia of Neuroscience.
- 11. <u>Elble</u> RJ. 1993. Tremor. In: Smith B, Adelman G (eds). <u>Neuroscience Year</u>; <u>Supplement 3 to the Encyclopedia of Neuroscience</u>. Boston: Birkhäuser, 164-165.
- 12. <u>Elble</u> RJ. 1994. Gait disturbances and analysis. In: Good DC, Couch JR (eds). <u>Handbook of Neurorehabilitation</u>. New York: Marcel Dekker, 29-62.
- <u>Elble</u> RJ. 1994. Mechanisms of physiologic tremor and relationship to essential tremor. In: Findley LJ, Koller WC (eds), <u>Handbook of Tremor Disorders</u>. New York: Marcel Dekker, 51-62.
- 14. <u>Elble</u> RJ. 1994. Disturbances of gait in patients with dementia. In: Giacobini E, Becker R (eds), <u>Alzheimer Disease: Therapeutic Strategies</u>. Boston: Birkhäuser, 359-364.
- 15. <u>Elble</u> RJ. 1996. Gait disturbances and cervical spondylosis. In: Mark M, Sage J (eds), <u>Practical Neurology of the Elderly</u>. New York: Marcel Dekker, 1996:145-187.
- 16. <u>Elble</u> RJ. Clinical and research methods of gait analysis. In: Masdeu JC, Sudarsky L, Wolfson LI (eds), <u>Gait Disorders of Aging</u>. Boston: Little, Brown and Company (in press).
- 17. <u>Elble</u> RJ. 1997. Changes in gait with normal aging. In: Masdeu JC, Sudarsky L, Wolfson LI (eds), <u>Gait Disorders of Aging</u>. Boston: Little, Brown and Company (in press).
- 18. <u>Elble</u> RJ. 1997. Gait disturbances and recurrent falls. In: Biller J (ed). <u>A Practical Guide</u> to Clinical Neurology. Boston: Little, Brown and Co.

- <u>Elble</u> RJ. 1997. The pathophysiology of tremor. In: Watts RL, Koller WC, eds. <u>Movement Disorders: Neurologic Principles and Practice</u>. New York: McGraw-Hill, Inc., pp 405-417.
- <u>Elble</u> RJ. 1998. Motor control and movement disorders. In: Jankovic J, Tolosa E, eds. <u>Parkinson's Disease and Movement Disorders</u>, 3rd edition. Baltimore: Williams & Wilkins, pp 15-45.
- 21. <u>Elble</u> RJ. 1999. Tremor. In: Smith B, Adelman G (eds). <u>Encyclopedia of Neuroscience</u>, <u>2nd edition</u>. New York: Elsevier Science B.V.
- 22. <u>Elble</u> RJ. 2001. Essential tremor. In: Gilman S (ed). <u>MedLink-Neurobase</u>. San Diego: Arbor Publishing Corp.
- <u>Elble</u> RJ, Deuschl G. 2002. Tremor. In: Brown WF, Bolton CF, Aminoff M, editors. Neuromuscular Function and Disease: Basic, Clinical and Electrodiagnostic Aspects. Philadelphia: W. B. Saunders Co., pp 1759-1779.
- 24. <u>Elble</u> RJ. 2002. Essential tremor. In: Gilman S (ed). <u>MedLink-Neurobase</u>. San Diego: Arbor Publishing Corp.
- 25. <u>Elble</u> RJ. 2002. Gait disturbances and recurrent falls. In: Biller J (ed). <u>A Practical Guide</u> to Clinical Neurology (2nd edition). Boston: Little, Brown and Co.
- <u>Elble</u> RJ. 2002. Motor control and movement disorders. In: Jankovic J, Tolosa E, eds. <u>Parkinson's Disease and Movement Disorders</u>, 4th edition. Baltimore: Williams & Wilkins, pp 11-22.
- 27. <u>Elble</u> RJ. 2003. Essential tremor. In: Gilman S (ed). <u>MedLink-Neurobase</u>. San Diego: Arbor Publishing Corp.
- 28. <u>Elble</u> RJ. 2003. Binswanger disease. In: Gruson E (ed). The NORD Guide to Rare Disorders. Lippincott, Williams & Wilkins, Philadelphia, PA; pp 519.
- 29. <u>Elble</u> RJ. 2003. Progressive supranuclear palsy. In: Gruson E (ed). The NORD Guide to Rare Disorders. Lippincott, Williams & Wilkins, Philadelphia, PA; pp 573.
- 30. <u>Elble</u> RJ. 2003. Physiologic and enhanced physiologic tremor. In: Hallett M (ed). <u>Handbook of Clinical Neurophysiology</u>, vol. 1. Elsevier Science BV. pp 357-364.
- 31. <u>Elble</u> RJ. 2003. Accelerometry. In: Hallett M (ed). <u>Handbook of Clinical</u> <u>Neurophysiology</u>, vol. 1. Elsevier Science BV. pp 181-190.
- 32. <u>Elble</u> RJ. 2003. Tremor. In: Smith B, Adelman G (eds). <u>Encyclopedia of Neuroscience</u>, <u>3rd edition</u>. New York: Elsevier Science B.V.

- 33. <u>Elble</u> RJ. 2004. Essential tremor. In: Gilman S (ed). <u>MedLink-Neurobase</u>. San Diego: Arbor Publishing Corp.
- <u>Elble</u> RJ. 2004. The pathophysiology of tremor. In: Watts RL, Koller WC, eds. <u>Movement Disorders: Neurologic Principles and Practice (2nd edition)</u>. New York: McGraw-Hill, Inc., pp 481-492.
- 35. <u>Elble</u> RJ. 2005. Essential tremor. In: Gilman S (ed). <u>MedLink-Neurobase</u>. San Diego: Arbor Publishing Corp.
- <u>Elble</u> RJ. 2005. Neurophysiologic characterization of tremor. In: LeDoux M (ed). <u>Animal Models of Movement Disorders</u>. Amsterdam: Elsevier Academic Press, pp 335-346.
- <u>Elble</u> RJ. 2005. Differential diagnosis and clinical characteristics of essential tremor. In: Lyons KE, Pahwa R (ed). <u>Handbook of Essential Tremor and Other Tremor Disorders</u>. Boca Raton: Taylor & Francis, pp 77-91.
- 38. <u>Elble</u> RJ. 2006. Essential tremor. In: Gilman S (ed). <u>MedLink-Neurobase</u>. San Diego: Arbor Publishing Corp.
- 39. <u>Elble</u> RJ. 2007. Essential tremor. In: Gilman S (ed). <u>MedLink-Neurobase</u>. San Diego: Arbor Publishing Corp.
- <u>Elble</u> RJ, Kattah J. 2008. Approach to the patient with gait disturbances and recurrent falls. In: Biller J (ed). <u>A Practical Guide to Clinical Neurology (3rd edition)</u>. Boston: Little, Brown and Co.
- 41. <u>Elble</u> RJ. 2008. Essential tremor. In: <u>Therapeutics of Parkinson's Disease and Other</u> <u>Movement Disorders</u>. Mark Hallett (Editor), Werner Poewe (eds). New York: Wiley Inc.
- 42. <u>Elble</u> RJ. 2009. Essential tremor. In: Gilman S (ed). <u>MedLink-Neurobase</u>. San Diego: Arbor Publishing Corp.
- 43. Elble RJ. 2009. Accelerometry. Encyclopedia of Movement Disorders. Oxford UK:
- 44. Elble RJ. 2009. Tremor. Encyclopedia of Movement Disorders. Oxford UK: Elsevier.
- 45. <u>Elble</u> RJ. 2009. Actigraphy. <u>Encyclopedia of Movement Disorders</u>. Oxford UK: Elsevier
- 46. <u>Elble</u> RJ. 2009. Beta Blockers. <u>Encyclopedia of Movement Disorders</u>. Oxford UK: Elsevier
- 47. <u>Elble</u> RJ. 2009. Myorhythmia. <u>Encyclopedia of Movement Disorders</u>. Oxford UK: Elsevier

- 48. Elble RJ. 2009. Pathophysiology of tremor. In: <u>Movement Disorders (3rd edition)</u>. Ray Watts, MD; Jose A. Obeso, MD, and David Standaert, MD (eds). New York: McGraw-Hill.
- 49. <u>Elble</u> RJ. 2010. Essential tremor. In: Gilman S (ed). <u>MedLink-Neurobase</u>. San Diego: Arbor Publishing Corp.
- 50. <u>Elble</u> RJ. 2011. Essential tremor. In: Gilman S (ed). <u>MedLink-Neurobase</u>. San Diego: Arbor Publishing Corp.
- 51. <u>Elble</u> RJ. 2012. Binswanger disease. In: Gruson E (ed). <u>The NORD Guide to Rare</u> <u>Disorders</u>. Lippincott, Williams & Wilkins, Philadelphia, PA; 2012
- 52. <u>Elble</u> RJ. 2012. Progressive supranuclear palsy. In: Gruson E (ed). <u>The NORD Guide to</u> <u>Rare Disorders</u>. Lippincott, Williams & Wilkins, Philadelphia, PA; 2012
- 53. <u>Elble</u> RJ. 2012. Essential tremor. In: Gilman S (ed). <u>MedLink-Neurobase</u>. San Diego: Arbor Publishing Corp.
- 54. <u>Elble</u> RJ. 2013. Physiologic tremor. In: Grimaldi G, Manto M (eds). <u>Mechanisms and</u> <u>Emerging Therapies in Tremor Disorders</u>. New York: Springer.

Book Reviews:

1. <u>Elble</u> RJ. 2002. Advances in Neurology, Vol. 87: Gait Disorders, by Ruzicka E, Hallett M, Jankovic J. Neurology 58:992.

Miscellaneous Papers:

- 1. <u>Elble</u> RJ. Essential tremor: a position paper submitted upon request to the National Institute on Aging, April 1990.
- 2. <u>Elble</u> RJ. 1991. Characteristics of gait in neurologically normal and abnormal elderly people. In: Couch JR (ed), <u>Neurologic Rehabilitation</u>, American Academy of Neurology.
- 3. <u>Elble</u> RJ. 1991. Characteristics of gait in healthy old people. In: Masdeu J (ed), <u>Gait</u> <u>Disturbances in the Elderly</u>, American Academy of Neurology.
- 4. <u>Elble</u> RJ. 1992. The pathophysiology of tremor. In: Hallett M (ed), <u>Motor Control</u>, American Academy of Neurology.
- 5. <u>Elble</u> RJ. 1993. Balance and locomotion in normal older people. In: Sudarsky L (ed), <u>Gait Disturbances in the Elderly</u>, American Academy of Neurology.

- 6. <u>Elble</u> RJ. 1994. Balance and locomotion in normal older people. In: Sudarsky L (ed), <u>Gait Disturbances in the Elderly</u>, American Academy of Neurology.
- 7. <u>Elble</u> RJ. 1994. The pathophysiology of tremor. In: Hallett M (ed), <u>Motor Control</u>, American Academy of Neurology.
- 8. <u>Elble</u> RJ. 1995. Control of posture and locomotion. In: Elble RJ (ed), <u>Motor Control</u>, American Academy of Neurology.
- 9. <u>Elble</u> RJ. 1995. Identification of geriatric gait disorders. In: DeKosky S (ed), <u>Geriatric</u> <u>Neurology</u>, American Academy of Neurology.
- 10. <u>Elble</u> RJ. 1996. Insights from patients with unusual tremor. In: Elble RJ (ed), <u>Motor</u> <u>Control</u>, American Academy of Neurology.
- 11. <u>Elble</u> RJ. 1997. Pathophysiology of tremor. In Hallett M (ed), <u>Tremor</u>, American Academy of Neurology.
- 12. <u>Elble</u> RJ. 1997. Cerebral control of locomotion: gait apraxia. In: Elble RJ (ed), <u>Motor</u> <u>Control</u>, American Academy of Neurology.
- 13. <u>Elble</u> RJ. 1998. Multi-joint movements: Lessons in biomechanics for the clinician. In: Elble RJ (ed), <u>Motor Control</u>, American Academy of Neurology.
- 14. <u>Elble</u> RJ. 1999. Movement disorders of the Guillain-Mollaret triangle. In: Elble RJ (ed), <u>Motor Control</u>, American Academy of Neurology.
- 15. <u>Elble</u> RJ. 1999. Gait disorders. In: Elble RJ (ed), <u>Motor Control</u>, American Academy of Neurology.
- 16. <u>Elble</u> RJ. 1999. Differential diagnosis and classification of essential tremor. In: <u>Current</u> <u>Issues In Essential Tremor</u> (a CME monograph by Embryon, Inc.).
- 17. <u>Elble</u> RJ. 2000. Common causes of impaired locomotion and less common treatable conditions. In: Giladi N, Elble RJ (eds), Gait Disorders in the Elderly, Movement Disorder Society's 6th International Congress. Barcelona, Spain.
- <u>Elble</u> RJ. 2001. Why don't my medications control my tremor? Parkinson Report 12:8-11.

RESEARCH PRESENTATIONS AT REGIONAL, NATIONAL AND INTERNATIONAL MEETINGS:

- 1. <u>Elble</u> RJ, Randall JE. 1974. Motor unit activity responsible for the 8-12 Hz component of human physiologic tremor. <u>Physiologist</u> 17:216 (American Physiological Society 1974 Fall Meeting).
- 2. <u>Elble</u> RJ, Schieber MH, Thach WT. 1981. Involvement of nucleus interpositus in action tremor. Society for Neuroscience Fall Meeting, Abstract #223.17.
- 3. <u>Elble</u> RJ. 1982. Agonist and antagonist muscle interaction in the 8-12 Hz component of physiologic tremor. Society for Neuroscience Fall Meeting, Abstract #212.4.
- 4. <u>Elble</u> RJ. 1984. Relationships between physiologic and essential tremors. American Academy of Neurology Annual Meeting.
- 5. Giacobini E, Becker R, <u>Elble</u> R, Mattio T, McIlhany M. 1985. Acetylcholine metabolism in brain: is it reflected by CSF changes? OHOLO Biological Conference, Eilat, Israel, March 1985.
- 6. <u>Elble</u> RJ. 1985. Relationships between high- and low-frequency familial tremors. American Academy of Neurology Annual Meeting.
- 7. <u>Elble</u> RJ, Adelman J, Higgins C. 1985. Interaction between stretch-reflex and 8-12 Hz component of physiologic tremor. 15th Annual Meeting Society for Neuroscience, Dallas, Texas.
- 8. Giacobini E, Becker R, <u>Elble</u> R, Mattio T, McIlhany M. 1985. Acetylcholine metabolism in brain: is it reflected by CSF changes? 8th Midwest Neurobiology Meeting, Iowa City, Iowa.
- 9. Giacobini E, Becker R, <u>Elble</u> R, Mattio T, McIlhany M. 1985. Brain acetylcholine: a view from the cerebrospinal fluid. Neurobiology of Acetylcholine Symposium, Maywood, Illinois.
- 10. Giacobini E, Becker R, <u>Elble</u> R, Mattio T, McIlhany M. 1985. Brain Acetylcholine: a view from the cerebrospinal fluid. 15th Annual Meeting Society for Neuroscience, Dallas, Texas.
- 11. Giacobini E, <u>Elble</u> R, Hess J, and Becker R. 1986. Cholinergic markers in human cerebrospinal fluid. Amer Soc Neurochem, Montreal, Canada 1986.
- 12. Ashford JW, Sherman KA, <u>Elble</u> RJ, Hess J, Larson LS, Rey P, Higgins C, Best S, Woodruff EM, McIlhany M. 1986. Physostigmine effect on human memory and plasma cholinesterase. Ninth Annual Midwest Neurobiology Meeting, Springfield, Illinois.
- 13. <u>Elble</u> RJ. 1986. Relationship between mechanically-induced stretch reflex oscillations and essential tremor. 38th Annual Meeting of American Academy of Neurology, New Orleans.

- 14. <u>Elble</u> RJ, Giacobini E, Higgins C, Brown M. 1986. Reproducibility of CSF protein and acetylcholinesterase measurements in Alzheimer patients. 38th Annual Meeting of American Academy of Neurology, New Orleans.
- 15. Moody C, <u>Elble</u> RJ, Higgins C. 1986. Voluntary ballistic movements are time-locked to essential tremor. Ninth Annual Midwest Neurobiology Meeting, Springfield, Illinois.
- 16. Sherman KA, Ashford JW, <u>Elble</u> RJ, Hess J, McIlhany M, Kumar V, Becker RE, Giacobini E. 1986. Inhibition of blood cholinesterase after oral physostigmine in Alzheimer patients. Society for Neuroscience Annual Meeting.
- 17. Sherman KA, <u>Elble</u> RJ, Ashford JW, Hess J. 1986. Predicting response to physostigmine in senile dementia patients: inhibition of plasma or red blood cell cholinesterase. American Geriatrics Society Annual Meeting.
- 18. <u>Elble</u> RJ, Moody C, Higgins C. 1986. Interaction between essential tremor and voluntary movements. Society for Neuroscience Annual Meeting, New Orleans.
- 19. <u>Elble</u> RJ, Moody C, Higgins C. 1987. Primary writing tremor. 39th Annual Meeting of American Academy of Neurology, New York.
- 20. <u>Elble</u> RJ. 1987. Caveats of tremor research: a computer model. Society for Neuroscience Annual Meeting, New Orleans.
- <u>Elble</u> RJ, Giacobini E, Becker R, Zec R, Vicari S, Womack C, Williams E, Higgins C. 1988. Treatment of Alzheimer dementia with steady-state infusion of physostigmine. Advances in Alzheimer Therapy: Cholinesterase Inhibitors, an International Symposium sponsored by The World Federation of Neurology Research, Group on Dementias and the Institute of Developmental Neuroscience and Aging. SIU School of Medicine, Springfield, Illinois.
- 22. Ashford W, Kumar V, Sherman K, <u>Elble</u> R, Giacobini E, Becker R. 1988. Physostigmine treatment of Alzheimer patients: Memory vs. plasma cholinesterase. The Third Congress of the International Psychogeriatric Association.
- 23. <u>Elble</u> RJ, Thomas SS, Moody C. 1988. Kinematic gait analysis in the quantification and elucidation of geriatric gait disturbances. Society for Neuroscience Annual Meeting, Toronto.
- 24. <u>Elble</u> RJ, Higgins C. 1989. Measuring tremor that is induced by writing and drawing. Annual Meeting of the American Academy of Neurology, Chicago.
- 25. <u>Elble</u> RJ, Thomas SS, Moody CJ. 1989. Characteristics of gait in healthy old people. Annual Meeting of the American Academy of Neurology, Chicago.

- <u>Elble</u> RJ. 1989. Analysis of tremor with methods of nonlinear dynamics: attractor dimensions. 1989 Annual Meeting of the Society for Neuroscience, Phoenix, AZ. Neuroscience Abstr 15:604.
- <u>Elble</u> RJ. 1990. The response of essential tremor to pulsatile and sinusoidal forcings. Movement Disorders 5 (suppl 1):46. Presented at the First International Congress of Movement Disorders, Washington, DC, April 26, 1990.
- 28. <u>Elble</u> RJ. 1990. Symmetrical gait disturbances in the elderly: senile gait. Central Society for Neurological Research, Two Harbors, MN, Sept. 14-16, 1990.
- 29. <u>Elble</u> RJ, Moody C, Higgins C. 1990. The physiology of gait initiation. Society for Neuroscience, Nov. 1990, St. Louis, MO.
- 30. <u>Elble</u> RJ. 1991. Periodic inhibition of forearm EMG by palatal myoclonus. Am Acad Neurology, Apr. 1991, Boston, MA. Neurology 41 (suppl 1):327.
- 31. Barnes WA, Seiz J, Kiel D, <u>Elble</u> RJ, Manyam BV. 1991. Outpatient Parkinson disease rehabilitation program. Arch Phys Med Rehab.
- 32. Harris RB, Hughes LF, <u>Elble</u> RJ, Manyam BV. 1991. Parkinson disease: factors of importance in rehabilitation. 10th International Symposium on Parkinson's Disease, Tokyo, Japan.
- 33. <u>Elble</u> RJ, Higgins CA. 1991. Response of essential wrist tremor to sinusoidal somatosensory feedback. Society for Neuroscience, Nov. 1991, New Orleans.
- 34. <u>Elble</u> RJ. 1992. The physiology of gait initiation: insight into the mechanisms of start hesitation. Central Society for Neurological Research, Oct. 3, Red Wing, Minnesota.
- 35. <u>Elble</u> RJ, Moody C. 1992. Characteristics of gait initiation in normal and abnormal older people. Abstr #18.5, Society for Neuroscience, Oct. 26, Anaheim, CA.
- 36. Zec RF, McCool M, Grames E, Landreth E, Hasara A, Fraiser W, Fritz S, Wairman S, Belman J, Harris R, O'Connell C, Robbs R, Manyam B, <u>Elble R</u>. 1992. Problem-solving ability in Parkinson disease. Abstr #395.10, Society for Neuroscience, Oct. 28, Anaheim, CA.
- 37. Zec R, Fraiser W, Landreth E, Wainman S, O'Connell, Fritz S, Hasara A, Grames E, McCool M, Harris R, Belman J, Kocis M, Robbs R, <u>Elble</u> R, Manyam B. 1993. Memory retrieval deficits in non-demented Parkinson's disease. 118th annual meeting of the Am Neurological Assoc, October 1993.
- 38. <u>Elble</u> RJ, Higgins C, Hughes L. 1993. Entrainment of rapid wrist movement by essential tremor. Society for Neuroscience, November 1993, Washington DC.

- <u>Elble</u> RJ, Leffler K, Cousins B, Hill S, Elble S. 1994. Gait initiation in patients with Binswanger disease. Mov Disord 9 (suppl 1):126. Third International Congress of Movement Disorders.
- 40. <u>Elble</u> RJ. Quantitative analysis of essential tremor in posture and handwriting. Neurology 1995;45(suppl 4):218-219 (presented at the annual meeting of the Am. Academy of Neurology in Seattle, Washington).
- 41. <u>Elble</u> RJ. Tremor due to stroke and other focal lesions. Central Society of Neurological Research. Pere Marquette State Park, September 15-16, 1995.
- 42. <u>Elble</u> RJ, Leffler K, Cousins R. 1996. Anticipatory postural control in lower-half parkinsonism. Am. Academy of Neurology, San Francisco, March 1996.
- 43. <u>Elble</u> RJ. 1996. Critical unanswered questions pertaining to the pathophysiology of tremor. Central Society of Neurological Research. Red Wing, MN, Sept. 20, 1996.
- 44. Zec RF, Markwell S, Vost K, Ward M, <u>Elble</u> R, McManus D. 1996. A double learning association between the effect of number of learning trials on the early detection of Alzheimer dementia in patients with higher versus lower educational levels. Soc Neuroscience Abstracts 1996;22:2121.
- 45. <u>Elble</u> RJ, Cousins B, Leffler K, Elble S, Herrmann D, Hill S. 1996. Motor performance by patients with mild Alzheimer disease and Parkinson disease. Soc Neuroscience Abstracts 1996;22:1700.
- 46. <u>Elble</u> RJ. 1997. Mild essential tremor in ostensibly normal older people. Am. Academy of Neurology, Boston, April 1997.
- 47. <u>Elble</u> RJ, Higgins C, Leffler K, Elble S. 1998. Tremor that does not change in frequency with mass loading: prevalence in ostensibly normal volunteers. 5th International Congress of Parkinson's Disease and Movement Disorders. New York.
- 48. Zec RF, Matthews B, Markwell S, <u>Elble</u> R. 1998. Impaired alternating word fluency in non-demented patients with Parkinson's disease but not in a subgroup of cognitively intact PD patients. Annual Meeting of the Society for Neuroscience. Los Angeles. Soc Neurosci Abstracts 24:763.
- 49. Matthews B, Zec RF, <u>Elble</u> R, Markwell S. 1998. Verbal planning deficit in otherwise cognitively intact patients with Parkinson's disease. Annual Meeting of the Society for Neuroscience. Los Angeles. Soc Neurosci Abstracts 24:763.
- 50. Zec RF, Matthews B, Markwell S, <u>Elble</u> R. 1998. Selective impairment in planning versus following instructions in non-demented PD. National Academy of Neuropsychology, Washington DC. Arch Clin Neuropsychol.

- 51. Matthews B, Zec RF, Markwell S, <u>Elble</u> R. 1998. Wide range of cognitive impairment in PD patients with intact MMSE scores. National Academy of Neuropsychology, Washington DC. Arch Clin Neuropsychol.
- 52. Matthews B, Zec RF, <u>Elble</u> R, Markwell SJ. 1999. No evidence for a global or disproportionate impairment of executive functioning in non-demented patients with Parkinson's disease. Tenth annual meeting of the American Neuropsychiatric Association/Behavioral Neurology Society, New Orleans. J Neuropsychiatry Clin Neurosci.
- 53. Zec RF, Matthews B, Vost K, <u>Elble</u> R, Markwell SJ. 1999. Mildly demented AD patients but not mildly cognitively impaired PD patients lack insight regarding their level of everyday executive functioning. Tenth annual meeting of the American Neuropsychiatric Association/Behavioral Neurology Society, New Orleans. J Neuropsychiatry Clin Neurosci.
- 54. <u>Elble</u> RJ, Higgins C, Elble S. 2000. Essential tremor: a prospective longitudinal study of tremor frequency. American Academy of Neurology. San Diego.
- 55. Henderson VW, Paganini-Hill A. Miller BL, <u>Elble</u> RJ, Reyes PF, Farlow MR. 2000. A randomized controlled trial of estrogen for the treatment of Alzheimer's disease in women. American Academy of Neurology. San Diego.
- 56. Ala TA, Hughes LF, Kyrouac GA, Ghobrial MW, <u>Elble</u> RJ. Patients with Lewy body dementia draw the interlocking pentagons on the Mini-Mental State examination less accurately than patients with Alzheimer disease: a cliniconeuropathological study. Neurobiol Aging. 2000;21:S83 (Washington DC).
- 57. Ala TA, Hughes LF, Kyrouac GA, Ghobrial MW, <u>Elble</u> RJ. The Mini-Mental State exam may help in the differentiation of Alzheimer and Lewy body dementias. In: Ageing Myths, Realities & Management of Alzheimer's Disease. An International (Mini) Symposium to the Millennium 52nd Indian Pharmaceutical Congress. Hyderabad, India: Indian Pharmaceutical Association; 2000:3 (Abstract).
- 58. <u>Elble</u> RJ, Higgins C, Elble S. 2001. Head tremor in patients with essential tremor. American Academy of Neurology. Philadelphia, May 9.
- 59. Ala TA, Hughes LF, Kyrouac GA, Ghobrial MW, <u>Elble</u> RJ. The Mini-Mental State Examination may help in the differentiation of dementia with Lewy bodies and Alzheimer's disease. In: Programme Book of the 17th International Conference. Christchurch, New Zealand: Alzheimer's Disease International; 2001:149
- Ala TA, <u>Elble</u> RJ. 2002. Neuropsychological features help to distinguish dementia with Lewy bodies from Alzheimer disease. American Academy of Neurology, Denver, April 18.

- 61. Shatunov A, Jankovic J, <u>Elble</u> R, Sambuughin N, Zhang Y, Ji J, Lee H-S, Hallett M, Goldfarb LG. 2002. Chromosomal mapping of Essential Tremor. 52nd Annual Meeting of the American Society of Human Genetics. Baltimore, Oct. 15, 2002.
- 62. <u>Elble</u> RJ. 2002. Limitations of accelerometry in motion analysis. 7th International Congress of Parkinson's Disease and Movement Disorders. Miami FL. Nov. 14.
- 63. <u>Elble</u> RJ. 2004. Gait disorders in the dementias. Neurobiol Aging 25(S1): S8.
- 64. <u>Elble</u> RJ. 2004. Tremor rating scales are crude and nonlinear. Neurology 62(suppl 5): 502-3.
- 65. Ondo WG, Jankovic J, Stacy MA, <u>Elble</u> RJ, et al. 2004. Topiramate in essential tremor: a multicenter, double-blind, placebo-controlled trial. Annual Meeting of the American Academy of Neurology, San Francisco, April 27.
- 66. <u>Elble</u> RJ, Higgins C, Elble S. 2004. Electrophysiologic transition from physiologic tremor to essential tremor. Mov Disord 19 (suppl 9): S448
- 67. Jankovic J, Ondo WG, Stacy MA, <u>Elble</u> RJ, et al. 2004. A multicenter, double-blind, placebo-controlled trial of topiramate in essential tremor. Mov Disord 19 (suppl 9): S448-9
- 68. Tintner R for the Tremor Research Group¹⁵. 2004. The Tremor Rating Scale (TRS). Mov Disord 19:1131-1132.
- 69. <u>Elble</u> RJ, Matsumoto J, Pullman SL. 2005. How might a clinician's concept of severe and normal tremor affect the mathematical relationship between a tremor rating scale and actual tremor amplitude? Mov Disord 20 (suppl 10): S170.
- 70. Ala TA, Vicari SK, Ghobrial MW, Elble RJ. The response of neuropathologically-proven Alzheimer and dementia with Lewy body patients to metrifonate. In: Book of Abstracts; Insights, Progress and Perspectives. Alzheimer's and Parkinson's Diseases 7th International Conference; Sorrento, Italy. Geneva, Switzerland; Kenes International; 2005:137 (Abstract).
- 71. Elble RJ, Matsumoto JY, Pullman SL. Quantification of 5-point tremor rating scales. Neurology 2005;64(suppl 1):A255.
- 72. Elble RJ. Clinical assessment of ET with motion transducers: Better than rating scales? Consensus Conference on Essential Tremor, Washington DC, October 20-21, 2005.

¹⁵ RJE is president of the Tremor Research Group

- 73. Christopher G. Goetz, Ken Kubota, Glenn T. Stebbins, Helen Bronte-Stewart, Rodger Elble, Mark Hallett, John Nutt, Lorraine Ramig, Terrance Sanger, Allen Wu, Peter Kraus, C. Barr Taylor. At-Home Testing Battery for collecting objective motor data: technology to capture longitudinal changes in Parkinson disease. World Parkinson Conference, Washington, DC, 2006.
- 74. Ala T, Vicari S, Ghobrial M, Elble R. Neuropathological study of the response of patients with dementia with Lewy bodies to metrifonate. Neurobiol Aging. 2006;27S1:S1 (Abstract).
- 75. Christopher G. Goetz, Ken Kubota, Glenn T. Stebbins, William DeLeeuw, Helen Bronte-Stewart, Rodger Elble, Mark Hallett, John Nutt, Lorraine Ramig, Terrance Sanger, Allen Wu, Peter Kraus, Lucia M. Blasucci, Ejaz M. Shamin, C Barr Taylor. Parkinson's Disease At-Home Testing Battery: Reliability of data collection and transmission of objective motor data from home to a central study center. Parkinson Disease and Movement Disorders Congress, Kyowa Japan, 2006.
- 76. Elble RJ. Low pressure adult hydrocephalus. The 2nd International Congress on Gait and Mental Function. Amsterdam, The Netherlands, Feb. 1, 2008.
- 77. Christopher G. Goetz, Glenn T. Stebbins, Ken Kubota, William C. DeLeeuw, Helen Bronte-Stewart, Rodger Elble, Mark Hallett, John Nutt, Lorraine Ramig, Terence Sanger, Allan D. Wu, Peter H. Kraus, Lucia M. Blasucci, Ejaz A. Shamim, Kapil Sethi, Jennifer Spielman, David Wolff, Andrew S. Grove, Craig B. Taylor. Parkinson's Disease At-Home Testing Device: Feasibility and Relationship to UPDRS Changes over Six Months. Annual Meeting of the American Academy of Neurology, April 15, 2008, Chicago IL.
- 78. Suchowersky O, Huang P, Elble R, Weiner W. Effect of investigator perception of treatment efficacy on outcome measures in a clinical trial of neuroprotective agents in Parkinson disease. 12th International Congress of Parkinson Disease and Movement Disorders. June 24, 2008, Chicago IL.
- Kaul S, Elble R. Impaired pentagon drawing is an early indication of impending dementia in Parkinson disease. 12th International Congress of Parkinson Disease and Movement Disorders. June 26, 2008, Chicago IL.
- 80. Goetz CG, Stebbins GT, Wolff DJ, DeLeeuw H, Bronte-Stewart H, Elble RJ, Hallett M, Nutt JG, Ramig LA, Sanger TD, Wu AD, Kraus PH, Blasucci LM, Shamim EA, Sethi KD, Spielman J, Kubota K, Grove AS, Taylor CB. Objective at-home testing measures as predictors of UPDRS change in early Parkinson's disease (PD). 12th International Congress of Parkinson Disease and Movement Disorders. June 26, 2008, Chicago IL
- 81. Elble R, Comella C, Fahn S, Hallett M, Jankovic J, Juncos J, Louis E, Lyons K, Ondo W, Pahwa R, Sethi K, Stern M, Tanner C, Tarsy D, Tintner R, Watts R, Tremor Research Group. The essential tremor rating assessment scale (TETRAS). 12th International Congress of Parkinson Disease and Movement Disorders. June 26, 2008, Chicago IL.

- 82. Agrawal BK, Siddiqui FM, Elble RJ. A unique case of angiotropic lymphoma mimicking encephalomyeloradiculoneuritis. Neurology 2009;72:A30. Annual Meeting of the American Academy of Neurology. April 28, 2009. Seattle WA.
- 83. Louis EA, Faust P, Vonsattel J-P, Honig L, Rajput A, Rajput A, Pahwa R, Lyons K, Web R, Elble R, Erickson-Davis C. Torpedoes in essential tremor, Parkinson's disease, Alzheimer's disease, and control brains. Neurology 2009;72:A101. Annual Meeting of the American Academy of Neurology. April 28, 2009. Seattle WA.
- Ottaviani D, Elble R, Colosimo C, Fabbrini G, Berardelli A, Williams DR. Clinical syndromes and disease progression in progressive supranuclear palsy. Mov Disord 2009;24:S416. Parkinson Disease and Movement Disorders Congress. Paris France. June 2009.
- 85. Siddiqui FM, Agrawal BK, Acharya HK, Elble RJ. A Unique Case of Hyperviscosity Syndrome in a Patient with Chronic Lymphocytic Leukemia Treated with Rituximab. 2010 Annual Meeting of the American Academy of Neurology. Toronto. April 15.
- 86. Elble RJ. Neurophysiology of tremor. Clinical Neurophysiology 2010; 121: S81-82.
- 87. Heldman D, Filipkowski D, Jankovic J, Vaillancourt D, Prodoehl J, Elble R, Giuffrida J. Essential tremor quantification during activities of daily living. 2011 Annual Meeting of the American Academy of Neurology. Honolulu HI, April 12.
- 88. Elble R, Kaul S. Impaired pentagon drawing is an early indication of impending cognitive decline in Parkinson disease. 2011 Annual Meeting of the American Academy of Neurology. Honolulu HI, April 12.
- 89. Elble R, Hellriegel H, Raethjen J, Deuschl G. Logarithmic relationship between head tremor and 5-point tremor rating. 2011 International Congress of Parkinson Disease and Movement Disorders. Toronto.
- 90. Heldman D, Filipkowski D, Jankovic J, Vaillancourt D, Prodoehl J, Elble R, Giuffrida J. Essential tremor quantification during activities of daily living. 2011 International Congress of Parkinson Disease and Movement Disorders. Toronto.
- 91. Elble R, LeWitt P, Lyons K, Ondo W, Pahwa R, Sethi K, Stover N, Tarsy D, Testa C, Tintner R, Zesiewicz T. Inter-Rater Reliability of the Essential Tremor Rating Assessment Scale (TETRAS). 2012 Annual Meeting of the American Academy of Neurology. New Orleans, April 25.
- 92. Elble R, LeWitt P, Lyons K, Ondo W, Pahwa R, Sethi K, Stover N, Tarsy D, Testa C, Tintner R, Zesiewicz T for the Tremor Research Group. Reliability of the Essential Tremor Rating Assessment Scale (TETRAS). 2012 Congress of the Movement Disorder Society. Dublin Ireland, June 21.

- 93. Elble R, Dhakal L, Bhargava P, Kaul S, Jalan P, Pandav V, Lyons K, Ondo W, Pahwa R, Sethi K, Tarsy D, Tintner R. Reliability of the Essential Tremor Rating Assessment Scale in untrained neurology residents. 2013 Annual Meeting of the American Academy of Neurology. San Diego, March 21.
- 94. Elkouzi A, Kattah J, Elble R. Hypertrophic olivary degeneration does not reduce essential tremor. Annual Congress of the International Parkinson and Movement Disorder Society. San Diego, June 18, 2015
- 95. Elble R, Zesiewicz T. Fahn-Tolosa-Marín tremor rating scale and digitizing tablet have comparable minimum detectable change. Annual Congress of the International Parkinson and Movement Disorder Society. San Diego, June 18, 2015
- 96. Akano E, Zesiewicz T, Elble R. Fahn-Tolosa-Marín scale, digitizing tablet and accelerometry have comparable minimum detectable change. Annual Congress of the International Parkinson and Movement Disorder Society. San Diego, June 18, 2015
- 97. Elble, R. Digitizing tablet and Fahn-Tolosa-Marín tremor ratings have comparable minimum detectable change. Annual Congress of the International Parkinson and Movement Disorder Society. Berlin Germany, June 22, 2016.

INVITED REGIONAL, NATIONAL AND INTERNATIONAL LECTURES

- 1. <u>Elble</u> RJ. 1988. Tremor. University of Minnesota, Minneapolis, October 1988.
- 2. <u>Elble</u> RJ. 1990. Relationship between essential and physiological tremor. Presented at the Symposium on Essential Tremor, **International Tremor Foundation**, Washington, DC, April 28, 1990.
- <u>Elble</u> RJ. 1990. Neurophysiological methods of classifying essential tremor. National Institute on Aging workshop on Essential Tremor in the Aging Nervous System, Bethesda, MD, April 24, 1990.
- 4. <u>Elble</u> RJ. 1991. Characteristics of gait in neurologically normal and abnormal elderly people. Presented at the 1991 annual meeting of the **American Academy of Neurology**, as a part of a course entitled Neurologic Rehabilitation, April 26, Boston, MA.
- 5. <u>Elble</u> RJ. 1991. Characteristics of gait in healthy old people. Presented at the 1991 annual meeting of the **American Academy of Neurology**, as a part of a course entitled Gait Disturbances in the Elderly, April 27, Boston, MA.
- 6. <u>Elble</u> RJ. 1991. Characteristics of gait in neurologically normal and abnormal elderly people. Presented for the **American Academy of Neurology**, as a part of a one-week workshop entitled Neurologic Rehabilitation of Stroke Patients, October 17, Springfield, IL.

- 7. <u>Elble</u> RJ. 1992. A mechanistic view of normal and abnormal tremors. Dept. of Kinesiology, **University of Illinois**, Urbana (April 17).
- 8. <u>Elble</u> RJ. 1992. The pathophysiology of tremor. Presented at the 1992 annual meeting of the **American Academy of Neurology** as a part of a course entitled Motor Control, May 1992, San Diego, CA.
- 9. <u>Elble</u> RJ. 1992. What causes essential tremor? Visiting lecture at **Albert-Ludwigs University**, Freiburg, Germany, June 17, 1992.
- 10. <u>Elble</u> RJ. 1992. Relationship of essential and physiologic tremor. **Second International Congress of Movement Disorders**, Munich, Germany (June 27).
- 11. <u>Elble</u> RJ. 1992. Differential diagnosis: medical and cognitive markers in Alzheimer disease and related disorders. **Am Society on Aging**, Chicago, IL (August 4, 1992).
- 12. <u>Elble</u> RJ. 1992. Sensorimotor Integration and Disintegration. Workshop sponsored by the **National Institute on Aging and the Life Sciences Division of NASA**, Bethesda, MD (August 19-21).
- 13. <u>Elble</u> RJ. 1992. The mystery of essential tremor. International Tremor Foundation Symposium for the establishment of a support group in Kansas City, **U. of Kansas Medical Center**, Kansas City, Kansas (August 29, 1992).
- 14. <u>Elble</u> RJ. 1992. Current therapy for tremor. The **University of Medicine and Dentistry of New Jersey**, Newark, September 23.
- 15. <u>Elble</u> RJ. 1993. Balance and locomotion in normal older people. Presented at the 1993 annual meeting of the **American Academy of Neurology**, as a part of a course entitled Gait Disturbances in the Elderly, April 26, New York.
- 16. <u>Elble</u> RJ. 1994. Balance and locomotion in normal older people. Presented at the 1994 annual meeting of the **American Academy of Neurology**, as a part of a course entitled Gait Disturbances in the Elderly, May 1994, Washington DC.
- 17. <u>Elble</u> RJ. 1994. The pathophysiology of tremor. Presented at the 1994 annual meeting of the **American Academy of Neurology** as a part of a course entitled Motor Control, May 1994, Washington DC.
- 18. <u>Elble</u> RJ. 1994. Disturbances of gait in patients with dementia. Presented at the **Third International Springfield Alzheimer Symposium**, May 1994, Springfield IL.
- <u>Elble</u> RJ. 1994. The role of aging in the clinical expression of essential tremor. Second International Symposium on Neurobiology and Neuroendocrinology of Aging, July 1994, Bregenz, Austria.

- 20. <u>Elble</u> RJ. 1994. Tremor: unanswered questions. **Third International Congress of Movement Disorders**. Nov. 8, 1994, Orlando, Florida.
- 21. <u>Elble</u> RJ. 1995. Control of posture and locomotion. Presented at the 1995 annual meeting of the **American Academy of Neurology** as a part of a course entitled Motor Control, May 1995, Seattle, Washington.
- 22. <u>Elble</u> RJ. 1995. Identification of geriatric gait disorders. Presented at the 1995 annual meeting of the **American Academy of Neurology** as a part of a course entitled Geriatric Neurology, May 1995, Seattle, Washington.
- 23. <u>Elble</u> RJ. 1996. Insights from patients with unusual tremor. Presented at the 1996 annual meeting of the **American Academy of Neurology** as a part of a course entitled Motor Control, March 1996, San Francisco.
- 24. <u>Elble</u> RJ. 1996. Tremors resulting from lesions in the Guillain-Mollaret triangle. **Christian-Albrechts University,** Kiel, Germany. June 27, 1996.
- 25. <u>Elble</u> RJ. 1996. Update on essential tremor: keynote address. Tenth annual symposium on Hyperkinetic Movement Disorders. **Parkinson Study Group and the Movement Disorders Society**. Oct. 13, Miami, Florida.
- 26. <u>Elble</u> RJ. 1997. Pathophysiology of tremor. Presented at the annual meeting of the **American Academy of Neurology**, Motor Control dinner seminar, Boston, MA.
- 27. <u>Elble</u> RJ. 1997. Cerebral control of locomotion: gait apraxia. Presented at the annual meeting of the **American Academy of Neurology**, Motor Control Course, Boston, MA.
- 28. <u>Elble</u> RJ. 1997. Animal models of action tremor. Presented at the international meeting <u>Tremor: mechanisms and clinical aspects</u> in **Kiel, Germany**, July 11-12, 1997.
- 29. <u>Elble</u> RJ. 1998. Multi-joint movements: Lessons in biomechanics for the clinician. Presented at the annual meeting of the **American Academy of Neurology**, Motor Control Course, Minneapolis, MN.
- <u>Elble</u> RJ. 1998. Differential diagnosis and classification of essential tremor. Current Issues in Essential Tremor, an invited workshop sponsored by Athena Neurosciences. Bermuda. Sept. 14, 1998.
- <u>Elble</u> RJ. 1998. Gait disorders: pathophysiology of standing and locomotion. Plenary lecture. 5th International Congress of Parkinson's Disease and Movement Disorders. New York. Oct. 11, 1998.
- <u>Elble</u> RJ and Giladi N. 1998. Gait and freezing in Parkinson's disease. Breakfast seminar. 5th International Congress of Parkinson's Disease and Movement Disorders. New York. Oct. 13, 1998.

- 33. <u>Elble</u> RJ. 1999. Gait disorders in progressive supranuclear palsy: a comment on the utility of electrophysiologic tests. **First International Brainstorming Conference on PSP**. National Institutes of Health, Bethesda, MD, March 18-19.
- 34. <u>Elble</u> RJ. 1999. Movement disorders of the Guillain-Mollaret triangle. Presented at the annual meeting of the **American Academy of Neurology**, Motor Control Course, Toronto, Canada.
- 35. <u>Elble</u> RJ. 1999. Gait disorders. Presented at the annual meeting of the **American Academy of Neurology**, Motor Control Course, Toronto, Canada.
- 36. <u>Elble</u>, RJ. 1999. Tremor: pathophysiology and treatment. Grand Rounds, Department of Neurology, Neurosurgery and Neuroscience. **University of Illinois, Peoria**. Sept. 3.
- 37. <u>Elble</u> RJ. 2000. Pathophysiology of tremor. Presented at the annual meeting of the **American Academy of Neurology**, Diagnosis and Treatment of Tremor dinner seminar, San Diego.
- <u>Elble</u> RJ. 2000. Common causes of impaired locomotion and less common treatable conditions. Movement Disorder Society's 6th International Congress. Barcelona, Spain. June 11.
- 39. <u>Elble</u> RJ. 2000. Gait disorders in the elderly. **University of Kentucky**. Lexington. October 27.
- 40. <u>Elble</u> RJ. 2001. Pathophysiology of common tremor disorders. **American Academy of Neurology**, Diagnosis and Treatment of Tremor dinner seminar, Philadelphia, May 6.
- 41. <u>Elble</u> RJ. 2001. Tremor and dopamine agonists. Presented at an **invited panel workshop sponsored by Pharmacia**, June 29, New York.
- <u>Elble</u> RJ. 2002. AD: Motor control deficits and therapy. 7th International Geneva/Springfield Symposium on Advances in Alzheimer Therapy. April 4, Geneva Switzerland.
- 43. <u>Elble</u> RJ. 2002. Pathophysiology of common tremor disorders. **American Academy of Neurology**, Diagnosis and Treatment of Tremor dinner seminar, Denver, April 14.
- 44. <u>Elble</u> RJ. 2002. Treatment options in tremor disorders. **7th International Congress of Parkinson's Disease and Movement Disorders**. Miami, FL. Nov. 11.
- 45. <u>Elble</u> RJ. 2003. Pathophysiology and treatment of tremor. **American Academy of Neurology**, Diagnosis and Treatment of Tremor dinner seminar, Honolulu, March 30.
- <u>Elble</u> RJ. 2004. Gait disorders in the dementias. 8th International Montreal/Springfield Symposium on Advances in Alzheimer Therapy. Montreal Canada. April 14, 2004.

- 47. <u>Elble</u>, RJ. 2004. Alzheimer disease and related disorders: treatment update. Grand Rounds, Department of Neurology, Neurosurgery and Neuroscience. **University of Illinois, Peoria**. April 21.
- 48. Elble, RJ. 2004. Non-Parkinson movement disorders. U. of Illinois Champaign. May 21, 2004.
- 49. Elble, RJ. 2004. Quantitative assessment of Parkinson tremor. Kinetics Foundation, Palo Alto, CA. May 26, 2004.
- 50. Elble RJ. 2004. Gait disorders. 8th International Congress of Parkinson's Disease and Movement Disorders, Rome, Italy, April 14.
- Elble RJ. 2006. Gait and dementia. 1st International Congress on Gait and Mental Function. Madrid, Spain, Feb. 3-5, 2006
- 52. Elble RJ. 2006. Update on essential tremor. Northwestern University, Chicago IL, March 3, 2006.
- 53. Elble RJ. 2006. Update on essential tremor. **Barrow Neurological Institute**, Phoenix AZ, March 10, 2006.
- 54. <u>Elble</u> RJ. 2006. Gait and balance disorders. **American Academy of Neurology**, Breakfast seminar, San Diego, CA, April 8.
- 55. Elble RJ. 2006. Essential tremor: quest for a cure. University of Alabama Birmingham, Birmingham AL, May 9, 2006.
- 56. Elble RJ. 2006. Tremor pathophysiology: the role of neuronal oscillation in producing symptoms other than tremor. **Movement Disorders Congress, Kyoto Japan**, November 1, 2006.
- 57. Elble RJ. 2006. Essential tremor: the road to finding a cure. **Sun Yat-Sen University**, Guangzhou China. November 3, 2006.
- 58. <u>Elble</u> RJ. 2007. Gait and balance disorders. **American Academy of Neurology**, Breakfast seminar, Boston, MA, April 29.
- 59. Elble RJ. 2007. Update on movement disorders. American Academy of Family Physicians annual assembly. Chicago, Illinois, October 5, 2007.
- 60. Elble RJ. 2007. Essential tremor: progress toward a cure. University of Arkansas Medical Center, Little Rock AR, November 30, 2007.
- 61. Elble RJ. 2007. Practical approach to gait disorders. University of Arkansas Medical Center, Little Rock AR, November 30, 2007.

- 62. Elble RJ. 2008. Parkinson dementia: Do we have a treatment? **10th International Hong Kong / Springfield Symposium on Advances in Alzheimer Therapy.** Hong Kong, March 1, 2008.
- 63. Elble RJ. 2008. Gait and balance disorders. **American Academy of Neurology**, Breakfast seminar, Boston, MA, April 17.
- 64. Elble RJ. 2009. Gait and balance disorders. **American Academy of Neurology**, Breakfast seminar, Seattle WA, April 27.
- 65. Elble RJ. 2009. Hyperkinetic movement disorders. American Academy of Neurology, Evening seminar, Seattle WA, May 1.
- 66. Elble RJ. 2009. Tremor. Plenary lecture, **13th International Congress of Parkinson's Disease and Movement Disorders**. Paris, France. June 7.
- 67. Elble RJ. 2009. Gait disorders. Video session, **13th International Congress of Parkinson's Disease and Movement Disorders.** Paris, France. June 7.
- Elble RJ. 2009. Tremor: five questions to be answered. Neurology Grand Rounds. Rush University Medical Center, Chicago, Illinois. September 1.
- 69. Elble RJ. 2009. Hyperkinetic movement disorders: diagnosis and treatment. **Neurology** Grand Rounds. University of Illinois, Peoria, Illinois. October 2.
- Elble RJ. 2010. Cerebrospinal fluid drainage in dementia. AD and normal pressure hydrocephalus. Springfield-Geneva Alzheimer Symposium. Geneva, Switzerland. March 25.
- Elble RJ. 2010. Gait disorders in neurodegenerative disease: focused evaluation and quantification. Department of Mechanical Engineering. University of Maryland BC. Baltimore, Maryland. May 7.
- 72. Elble RJ. 2010. Scoring tremor severity: tools and rating scales. Teaching course, 14th International Congress of Parkinson's Disease and Movement Disorders. Buenos Aires. June 17.
- 73. <u>Elble</u> RJ. 2010. Mechanisms of tremor: what can be learned from MEG? **Christian-Albrechts University**, Kiel, Germany. June 10, 2010.
- 74. <u>Elble</u> RJ. 2010. The travails of treating tremor: how much did the treatment help? **Christian-Albrechts University,** Kiel, Germany. August 29, 2010.
- 75. <u>Elble</u> RJ. 2010. Normal pressure hydrocephalus: why is initial improvement frequently not sustained? **Oregon Health Sciences University,** Portland, Oregon. October 9, 2010.

- 76. <u>Elble</u> RJ. 2010. Essential tremor: 3 barriers to finding a cure. **Oregon Health Sciences University**, Portland Oregon. October 9, 2010.
- 77. <u>Elble</u> RJ. 2010. The clinical physiology of tremor. Special Lecture, **29th International Congress of Clinical Neurophysiology**. Kobe Japan. October 31, 2010.
- <u>Elble</u> RJ. 2010. Neurophysiology of tremor. 29th International Congress of Clinical Neurophysiology. Kobe Japan. October 31, 2010.
- <u>Elble</u> RJ. 2011. History of objective measures of movement disorders. 15th International Congress of Parkinson Disease and Movement Disorders. Workshop sponsored by the Kinetics Foundation. Toronto. June 7.
- 80. <u>Elble</u> RJ. 2011. What is dystonic tremor? **5th International Dystonia Symposium.** Barcelona Spain. October 20.
- 81. <u>Elble</u> RJ. 2012. How similar and dissimilar are AD, PD, DLB and FTD? **Springfield-Stockholm Alzheimer Symposium.** Stockholm, Sweden. May 12.
- 82. <u>Elble</u> RJ. 2012. What is essential tremor? Clinical perspective. **16th International Congress of Parkinson Disease and Movement Disorders**. Dublin Ireland, June 21.
- <u>Elble</u> RJ. 2012. Objective measures of movement disorders. What is taking so long?
 16th International Congress of Parkinson Disease and Movement Disorders. Workshop sponsored by the Kinetics Foundation. Dublin. June 19.
- 84. <u>Elble</u> RJ. 2013. Essential Tremor. Parkinson Disease and Movement Disorders Update. Annual Meeting of the American Academy of Neurology. San Diego. March 16.
- 85. <u>Elble</u> RJ. 2013. Practical approach to gait disorders. **University of Saskatchewan**, Div. of Neurology. Saskatoon, Saskatchewan. Sept. 26.
- 86. <u>Elble</u> RJ. 2013. Living with Parkinson disease. **Parkinson Society Saskatchewan**, Saskatoon, Saskatchewan. Sept. 26.
- 87. <u>Elble</u> RJ. 2013. The Achilles heel of tremor. **University of Saskatchewan**, Div. of Neurology. Saskatoon, Saskatchewan. Sept. 27.
- 88. <u>Elble</u> RJ. 2014. Deep brain stimulation for disabling tremor. **University of Illinois**, Dept. of Neurology. Peoria, Illinois, March 14.
- <u>Elble</u> RJ. 2014. Tremor measurements and neurophysiological tests for the diagnosis of tremors. **30th International Congress of Clinical Neurophysiology (ICCN)**, Berlin Germany, March 21.

- 90. <u>Elble</u> RJ. 2014. Is essential tremor a dementing neurodegenerative disorder? **Geneva-Springfield Symposium on Advances in Alzheimer Therapy.** Geneva Switzerland. March 28.
- 91. <u>Elble</u> RJ. 2014. Essential Tremor. Parkinson Disease and Movement Disorders Update. Annual Meeting of the American Academy of Neurology. Philadelphia. May 2.
- 92. <u>Elble</u> RJ. 2014. Pathophysiology and treatment of tremor. **Indiana Neurological Society**. Indianapolis. November 14.
- Elble RJ. 2015. Pathophysiology and treatment of tremor. Parkinson Disease and Movement Disorders Update. Annual Meeting of the American Academy of Neurology. Washington DC. April 20.
- 94. Elble RJ. 2015. Pathology of essential tremor. Essential Knowledge Gaps in the Field of Essential Tremor, NIH Bethesda MD, May 2015
- 95. Elble RJ. 2015. Clinical measurement of essential tremor. Essential Knowledge Gaps in the Field of Essential Tremor, NIH Bethesda MD, May 2015
- 96. Elble RJ. 2016. Alzheimer disease and sleep. **14th International Athens/Springfield Symposium on Advances in Alzheimer Therapy**, Athens Greece, March 12.
- 97. Elble RJ. 2016. Should we redefine essential tremor? **20th International Congress of Parkinson Disease and Movement Disorders.** Berlin Germany, June 2016.
- 98. Elble RJ. 2016. Living with Parkinson disease. Central Indiana Parkinson Disease Symposium, Indianapolis, Indiana. Oct. 22.

RESEARCH PROJECTS AND FUNDING

1.	Neuromuscular Control in Action Tremor (Principal Investigator)	
	7/84-6/85:	American Parkinson Disease Association Grant
	7/84-6/87:	NINDS Grant 1-RO1 NS20973
	7/88-6/92:	NINDS Grant 2-RO1 NS20973
	12/92-11/97:	NINDS Grant 2-RO1 NS20973

- Aging of the Brain and Dementia: Early Detection (Co-Investigator) Principal Investigator: Ezio Giacobini, MD, PhD Collaborators: Robert Becker, MD 12/85-12/88: NIA Grant 1-R01-AG05416
- Regional Alzheimer Disease Assistance Center Grant (Director) Collaborators: R. Becker, MD, E. Giacobini, MD, PhD, et al. Funding:

1989-2007 Illinois Department of Public Health

4. Gait Disturbances in the Elderly: Senile Gait (Principal Investigator) Funding:

7/87-6/90:	Whitaker Foundation
7/90-6/92:	NIA grant P30 AG08014
7/92-6/97:	NIA grant RO1 AG10837

- 5. A long-term tolerance and safety study of HP 029 (1,2,3,4-tetrahydro-9-aminoacridin-1-OL maleate) in patients with Alzheimer's disease (Hoechst-Roussel Pharmaceuticals, Inc). 1/91-12/91
- Alzheimer Disease Research Center Grant. NIA grant P30 AG08014, Principal Investigator: Robert E. Becker, MD; Clinical Core Director: Rodger J. Elble, MD, PhD; 1991-1996
- 7. Conjugated estrogens for women with Alzheimer's disease: a randomized, double-blind, placebo-controlled, multi-center trial (Wyeth-Ayerst Laboratories). V. Henderson (PI), U. Southern California. April 1997-1998.
- 8. Noncomparative, open-label study to identify Tasmar dosage regimen in nonfluctuating Parkinson's disease patients treated with Sinemet, with follow-up extension of Tasmar (Hoffman-La Roche, Inc). Co-investigator with Dr. Bala Manyam. May 1997–1998.
- 9. Metrifonate Investigational Nationwide Trial (MINT). Bayer Pharmaceutical. Sept. 1997-Sept. 1998.
- 10. Akinesia in patients with Parkinson disease and other parkinsonian illnesses. A \$10,000 gift from Harriss Malan and his late wife, Fannie Bell Roe Malan to Southern Illinois U. School of Medicine, 1998.
- 11. The Genetics and Electrophysiologic Characteristics of Essential Tremor. \$20,000 per year, beginning August 1998. Spastic Paralysis Research Foundation of Kiwanis International, Illinois-Eastern Iowa District.
- 12. Global Parkinson Disease Study. February 1999.
- 13. Parkinson Disease Center Grant, National Parkinson Foundation Center of Excellence Funded by the Illinois Department of Public Health 7/00-7/05
- 14. A comparison of the efficacy and safety of topiramate versus placebo in the treatment of essential tremor: protocol CAPSS-149. Ortho-McNeil. March 2001-2004
- 15. Principal Investigator. Participating clinical center. Neuroprotection Exploratory Trials in Parkinson Disease (NET-PD). NIH (NINDS) 5U10 NS044450-02. March 2003-present

- Principal Investigator. Participating center. Feasibility Study on the Characteristics of Parkinson's Disease Symptoms for the Planned Phase III Studies with Sarizotan (EMR 62 225). Merck KGaA. March 2004-June 2004.
- 17. Principal Investigator. Participating center. A double-blind, placebo controlled, multicenter, multinational Phase III study to evaluate the safety and efficacy of Sarizotan HCl 1mg bid in patients with Parkinson's disease suffering from treatment associated dyskinesias (PADDY-1). Merck KGaA. September 2004- June 2006.
- 18. Principal Investigator. Participating center. A 12-week, double-blind, placebocontrolled, randomized, parallel-group, multicenter, fixed dose-response study to evaluate the efficacy and safety of 10, 20 and 40 mg/d oral doses of KW-6002 (istradefylline) as treatment for Parkinson's disease in patients with motor response complications of levodopa/carbidopa therapy. Kyowa Pharmaceutical Inc. September 2004-October 2005.
- 19. Principal Investigator. Participating center. Levetiracetam (Keppra®) in the Treatment of Essential Tremor. A Multi-center, Double-Blind Randomized, Cross-over, Placebo-controlled Investigation. UCB Pharma. September 2004-October 2006.
- 20. Principal Investigator. Participating center. Evaluation of the Efficacy and Safety of ALTROPANE for Differentiating Parkinsonian Syndromes from Non-Parkinsonian Syndromes in Patients with Tremors. Boston Life Sciences, Inc. Nov. 2004- April 2006.
- 21. Principal Investigator. NIH scientific conference grant 1R13NS052017-01. Critical Research Issues in Essential Tremor. April 1, 2005 March 31, 2006.
- 22. Principal Investigator. Participating center. An open-label, multicenter, multinational Phase III follow-up study to investigate the long-term safety and efficacy of Sarizotan HCl 1mg bid in patients with Parkinson's disease suffering from treatment-associated dyskinesia (PADDY-O). Merck KGaA. June 2005-January 2007.
- 23. Principal Investigator. Participating center. A phase 2, double-blind, placebocontrolled, randomized, parallel-group, multicenter study of the efficacy and safety of 40 mg/day of KW-6002 (istradefylline) as a monotherapy in subjects with Parkinson's disease. Kyowa Pharmaceutical Inc. May 2005- April 2007.
- 24. Principal Investigator. Participating center. A long-term, multicenter, open-label safety study with oral 20 or 40 mg/d doses of KW-6002 (istradefylline) as treatment for Parkinson's disease in patients with motor response complications on levodopa therapy. Kyowa Pharmaceutical Inc. July 2005- June 2006.
- 25. Principal Investigator. Participating center. A multi-center, double-blind, randomized start, placebo-controlled, parallel-group study to assess rasagiline as a disease modifying therapy in early Parkinson's disease patients. Teva Pharmaceutical. October 2005-2008

- 26. Principal Investigator. Participating center. Testing objective measures of motor impairment in early Parkinson's disease. Kinetics Foundation. September 2005-July 2007
- 27. Principal Investigator. Participating center. Clinimetric Studies of a New Scale for Parkinson's Disease. Movement Disorder Society. June 2006-March 2008.
- 28. Principal Investigator. Participating center. A multi-center, randomized, double-blind, placebo-controlled, parallel group study of the efficacy, safety and tolerability of E2007 in levodopa treated Parkinson's disease patients with motor fluctuations. Phase III. Eisai Study E2007-A001-302. May 2006-November 2008.
- 29. Principal Investigator. Participating center (Parkinson Study Group). A randomized, double-blind, active (pramipexole 0.5 mg tid) and placebo controlled, efficacy study of pramipexole given 0.5 mg and 0.75 mg bid over a 12-week treatment phase in early Parkinson's disease patients (PramiBID). Boehringer Ingelheim. October 2006 2008.
- Principal Investigator. Participating center (NET-PD Study Group). A Multi-center, Double-Blind, parallel Group, Placebo Controlled Study of Creatine in Participants with Treated Parkinson's disease (PD). Large Study-1 (LS-1). NINDS. October 2006 – present.
- 31. Principal Investigator. Participating center. A Multi-Center, Placebo-Controlled, Double-Blind Trial To Examine the Safety and Efficacy of ACP-103 in the Treatment of Psychosis in Parkinson's Disease Protocol Number ACP-103-012. Study Phase IIb/III. ACADIA. July 2007-August 2008.
- 32. Principal Investigator. Participating center. A Randomized, Double Blind, Placebo-Controlled, Crossover Study to Evaluate the Efficacy and Safety of Carisbamate in the Treatment of Essential Tremor. Protocol CARISEPY 2008; Phase II. Ortho-McNeil. July 2007-2008.
- Principal Investigator. Participating center. Parkinson Disease Collaborative Study of Genetic Linkage A.K.A. Parkinson's Research: The Organized Genetics Initiative (PROGENI). NINDS. August 2008-November 2009.
- 34. Principal Investigator. Participating center. A multi-site, double-blind, randomized, placebo-controlled, crossover study of pregabalin (Lyrica, PGB) in the treatment of essential tremor (Version 2). Grant to MoveDocs from Pfizer. January 2009-2011.
- 35. Principal Investigator. Participating center. Validation of the TRG essential tremor rating scale (TETRAS). Grant to the Tremor Research Group from GlaxoSmithKlein. April 2009-December 2012.
- 36. Participating center. Platelet-Oriented Inhibition in New TIA and minor ischemic stroke Trial (POINT). NIH NINDS CRC study. November 2010-July 2011.

- 37. Principal Investigator. Participating center. Phytopharm CONFIDENT-PD. Phytopharm plc. March 2011-December 2012.
- Principal Investigator. Participating center (NET-PD Study Group). A Multi-Center, Double-Blind, Placebo-Controlled Phase II Study of Pioglitazone in Early Parkinson's Disease (FS-ZONE). NINDS. May 2011-2013.
- Principal Investigator. Participating center. A double-blind, randomized, placebo controlled study of the safety and efficacy of SYN115 as adjunctive therapy in levodopa-treated Parkinson's subjects with end of dose wearing off. Biotie Therapies. December 2011-August 2012

SPECIAL EDUCATIONAL ACTIVITIES

University Educational Programs (Southern Illinois U. School of Medicine):

Authored a case for the Post-Clerkship Examination, 1990

Established the Neurology Clerkship

Established a senior elective in the Alzheimer Center

Developed Neurology Learning Center web site for students and residents.

Doctoral Advisory Committees:

Steven Kane, Dept. Neurobiology, Washington U., St. Louis May 1985 to May 1989.

National and International Educational and Research Programs:

Chair of scientific platform sessions:

American Academy of Neurology (1992, 1995) Society for Neuroscience (1993) Tremor: mechanisms and clinical aspects, Kiel, Germany (1997)

International Congress of Parkinson Disease and Movement Disorders

Session Chair, Essential tremor: challenges and future strategies, Toronto (2011) Tour Leader, Guided poster tour: Essential Tremor. Toronto (2011)

Tour Leader, Guided poster tour: Tremor. Dublin Ireland (2012)

Session Chair, What is essential tremor? Dublin Ireland (2012)

American Academy of Neurology Educational Programs:

Director and speaker, Motor Control Course, AAN Annual Meeting, 1995-1999

Invited speaker, Motor Control Course, AAN Annual Meeting 1992, 1994

Invited speaker, Geriatric Neurology Course, AAN Annual Meeting, 1995

Invited speaker, Neurorehabilitation Course, AAN Annual Meeting, 1991

Invited speaker, Gait Disturbances in the Elderly Course, AAN Annual Meeting, 1991, 1993, 1994

Invited speaker, Motor Control, dinner seminar, AAN Annual Meeting, 1997

Invited speaker, Diagnosis and Treatment of Tremor, dinner seminar, AAN Annual Meeting, 2000-2003.

Director and speaker, Balance and Gait course, AAN Annual Meeting, 2006-2009

Invited speaker, Movement Disorders Therapy, AAN Annual Meeting, 2009

Invited speaker, Parkinson Disease and Movement Disorders Update, AAN Annual Meeting, 2013, 2014, 2015

American Academy of Neurology Continuing Medical Education:

Contributing author, <u>Continuum: Geriatric Neurology</u>, Jan. 1995-1996.

Organizing committees:	Tremor: mechanisms and clinical aspects, Kiel Germany, July 11- 12, 1997
	Consensus Conference on Essential tremor, Washington DC, October 2005 (Conference director)
	1 st International Congress on Gait and Mental Function, Madrid, Spain, February 2006
	Geneva-Springfield Alzheimer Conference, Geneva, April 2006
	Hong Kong-Springfield Alzheimer Conference, Hong Kong, March 2008
	Geneva-Springfield Alzheimer Conference, Geneva, March 2010
	Geneva-Springfield Alzheimer Conference, Stockholm, May 2012
	Geneva-Springfield Alzheimer Conference, Geneva, March 2014
	Essential Knowledge Gaps in the Field of Essential Tremor, NIH Bethesda MD, May 2015
	Athens-Springfield Alzheimer Conference, Athens, March 2016
Board Examiner:	American Board of Psychiatry and Neurology (inactive)