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University of California San Francisco

Curriculum Vitae

**Chadwick Wilson Christine**

**Position:** Associate Clinical Professor Step 3 (effective July 1, 2012), UCSF  
Department of Neurology  
School of Medicine

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**Primary Work Location:** 400 Parnassus 8<sup>th</sup> floor Neurology Clinic

**Education**

- 1981** Diploma, Indian Hill High School, Cincinnati, Ohio.
- 1982-85** B.A., College of Arts and Sciences, Cornell University. Majors: Physics and English.
- 1986-91** M.D. with Honors in Research, Cornell University Medical College.
- 1991-92** Intern, Department of Medicine, UCSF
- 1992-95** Resident, Department of Neurology, UCSF
- 1995-99** Post Doctoral fellowship in Neurophysiology, UCSF

**Medical Licensure and Board Certification**

- 1993 Physician and Surgeon, State of California, License number GO76788
- 1998 Diplomat of the American Board of Neurology and Psychiatry, #44890
- 2008 Maintenance of certification in Neurology #44890 (through December 2018)

**Principal positions Held**

- 1991-92 Intern, Department of Medicine, University of California, San Francisco.
- 1992-1995 Resident, Department of Neurology, University of California, San Francisco.
- 1995-1998 Adjunct Instructor, Department of Neurology, UCSF
- 1998-2000 Assistant Adjunct Professor, Department of Neurology, UCSF
- 2000-2008 Assistant Clinical Professor UCSF
- 2008-Present Associate Clinical Professor Step 2 (effective July 1, 2010), UCSF

**Honors and Awards**

- 1988 Walton Foundation Scholarship, Stanford University School of Medicine.
- 1988 Harold G. Wolff Research prize, Cornell University Medical College.
- 1989 Dean Mecklenburg Polk Research Prize, Cornell University Medical College.
- 1990 Sandra Lee Shaw Memorial Prize, Cornell University Medical College.
- 1991 Kean-Haas Fellowship for International Study, Cornell University Medical College.

- 1991 Recipient of Cossio Foundation Scholarship, Buenos Aires, Argentina.
- 1991 Recipient of Herman L. Jacobius Prize, Cornell Medical College.
- 1991 M.D. with Honors in Research, Cornell University Medical College.
- 2006 Award for excellence in Innovative Curricular Design and Program Development, UCSF Academy of Medical Educators
- 2006 William Koller Memorial Fund Award, Movement Disorder Society
- 2008 Elected to the American Neurological Association
- 2013 Elected as Fellow of the American Neurological Association

**Areas of Interest**

- Diagnosis and management of movement disorders
- Environmental and nutritional risk factors for Parkinson's disease
- Management of complex movement disorders
- Gene therapy for Parkinson's disease
- Development of biomarkers for Parkinson's disease diagnosis and disease activity

**PROFESSIONAL ACTIVITIES:**

Clinical:

Outpatient: I attend on patients in the Neurology clinic 5 half days weekly since 1999.

Inpatient: I attend on the Ward/Consult inpatient service 4 weeks annually since 1999.

Summary of clinical activities: I see patients (children and adults) for evaluation and treatment of movement disorders, ataxia and other gait disturbances. I screen patients for advanced surgical treatments for movement disorders including deep brain stimulation and gene therapy for Parkinson's disease.

**Professional Organizations**

- 1992-present American Academy of Neurology
- 1999-present Parkinson Study Group (PSG)
- 2005-present Movement Disorder Society
- 2006-present American Society of Gene Therapy
- 2008-present American Neurological Association

Service to Professional Organizations

- July 2007- PSG NET PD-LS1 Recruitment and Retention Committee
- April 2009 Reviewer for American Neurological Association Annual meeting Abstracts
- April 2010 Reviewer for American Neurological Association Annual meeting Abstracts
- June 2009 AMA House of Delegates Meeting, Observer for ANA
- June 2010 AMA House of Delegates Meeting, Alternate Delegate for AAN & Observer for ANA
- February 28-March 1 2011 AAN Neurology on the Hill Representative

**Service to Professional Publications (since 2005)**

- Muscle and Nerve, Ad hoc reviewer 2007 (one article)
- Journal of Clinical Neurophysiology, Ad hoc reviewer 2002 (two articles)
- Proceedings of the National Academy of Sciences (November 2005)
- Annals of Neurology (4 articles in 2007) (1 article in 2009) (3 articles in 2012)
- Movement Disorders (1 in 2009) (1 in 2010)

New England Journal of Medicine (1 in 2010)

**Clinical Research (since 2002)**

- 2002- Co-investigator for “NIH exploratory Trials in Parkinson’s disease (NET-PD)
- 2002-8 Co-investigator for the VA Cooperative Study #468 “A comparison of medical therapy and deep brain stimulation of subthalamic Nucleus and globus pallidus for the treatment of Parkinson’s disease.”
- 2003-5 Principal Investigator for “Characterizing the substantia nigra using transcranial ultrasound in Parkinson’s disease and other parkinsonian disorders”
- 2004-5 Principal site investigator for “a 12-Week, Double-Blind, Placebo-Controlled, Randomized, Parallel Group, Multicenter, Fixed Dose Study to Evaluate the Efficacy and Safety of a 20 mg/d Oral Dose of KW-6002 (Istradefylline) as Treatment for Parkinson’s Disease in Patients with Motor Response Complication on Levodopa/Carbidopa Therapy”
- 2004-8 Co-investigator for “A phase 1 Open-label Study of Intrastratial Infusion of adeno-associated virus encoding human aromatic l-amino Acid decarboxylase in Subjects with Advanced Parkinson’s disease.”
- 2005- Collaborator with Mark D’Esposito and colleagues at UC Berkeley on “Defining the Cognitive Enhancing and Impairing Effects of Dopaminergic Medication in Parkinson’s Disease”
- 2005- Co-investigator for the study, “Parkinson’s Disease collaborative Study of Genetic Linkage”
- 2005-6 Co-investigator for the study, “A Multicenter, Open-Label, Phase III Study for the Safety, Tolerability and Clinical Effect of Rasagaline Mesylate in Patients with Parkinson’s Disease”
- 2005-8 Principal Site Investigator for 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
- 2006-9 Principal Site Investigator for “Study of Antidepressants in Parkinson’s disease (SAD-PD).
- 2006-7 Principal Site Investigator for Eisai 2007: “A multicenter, 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”
- 2007- Co-Investigator for the study “Imaging evaluation of Magnetic Resonance Diffusion Abnormalities in Patients with Neurodegenerative Movement Disorders.”
- 2007- 9 Principal Site Investigator for Eisai 2007-GOO-303 “A multicenter, open label extension to evaluate the long-term safety, tolerability and efficacy of E2007 as an adjunctive therapy of levodopa treated Parkinson’s disease patients with motor fluctuations”
- 2010-11 Principal Site investigator for the study “Cellular and Molecular Kinetics of Cerebrospinal Fluid (CSF) Using Heavy Water Labeling Method: A Study of Healthy Controls, CNS HIV Infection, Parkinson’s disease and Other Neurodegenerative Diseases”
- 2011-13 Principal Site Investigator for “Pioglitazone in Early Parkinson’s Disease”
- 2011-12 Principal Site Investigator for Synosia Therapeutics study “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”
- 2012-14 Site investigator for a “Cross-sectional examination of cerebrospinal fluid kinetic biomarkers of axonal transport for Parkinson disease diagnosis and progression”.

## INVITED LECTURES AND PRESENTATIONS

### INTERNATIONAL

International Congress of Parkinson's disease and Movement Disorders, New Orleans 2005 (poster); Kyoto, 2006, (poster); Chicago, 2008 (poster); Paris 2009 (2 posters) Dublin 2012 1 poster.

### NATIONAL

American Academy of Neurology San Francisco 2004 (poster); San Diego 2006 (platform presentation)  
American Association of Neurological Surgeons, 2006 (Invited talk).  
American Neurological Association, 2001 Chicago (poster); 2010 (2 posters)  
American Society of Gene Therapy Annual meeting, Seattle, 2007, (Invited talk).  
National Parkinson Foundation Centers Leadership Conference, Houston, 2010

### REGIONAL AND OTHER INVITED PRESENTATIONS

March 2003	UCSF Department of Pediatrics
August 2003	Core Seminar series for UCSF Primary Care Residents
September 2003	UCSF Neurology Housestaff conference
October 2003	Core Seminar series for UCSF Primary Care Residents
February 2004	UCSF Annual Review in Family Medicine, "Controversies and challenges in primary care"
May 2004	Avigen Inc, Alameda, California
September 2004	Neuroradiology Section, UCSF Department of Radiology
March 2005	4 <sup>th</sup> annual UCSF Conference on Developmental disabilities: an update for Health Professionals, UCSF
March 2005	Non-Alzheimer Disease dementia conference, UCSF
November 2005	UCSF Dept. of Neurology Frontiers in Neurology and Neuroscience.
December 2005	Parkinson's Institute, Sunnyvale, CA
January 2006	Core Seminar series for UCSF Primary Care Residents
March 2006	Core Seminar series for UCSF Primary Care Residents
June 25, 2006	UCSF Memory and Aging Center Conference
November 8, 2006	UCSF Neurology Housestaff conference
February 28 <sup>th</sup> , 2007	UCSF Neurology Housestaff conference
June 18, 2007	"Anti-medical school" UCSF Graduate Program
October 12 <sup>th</sup> , 2007	Core Seminar series for UCSF Primary Care Residents
December 14 <sup>th</sup> 2007	Core Seminar series for UCSF Primary Care Residents
February 23, 2009	UCSF Osher Center
March 4, 2009	UCSF Neurology Department Frontiers in Neurology & Neuroscience
April 20 <sup>th</sup> , 2009	UCSF Graduate Program
September 11, 2009	Core Seminar series for UCSF Primary Care Residents
October 23, 2009	Core Seminar series for UCSF Primary Care Residents
November 9, 2009	UCSF Osher Center

February 10, 2010	Clinical vignette, UCSF Neurology
March 19, 2010	Core Seminar series for UCSF Primary Care Residents
March 24, 2010	UCSF Psychiatry Residents
April 16, 2010	Core Seminar series for UCSF Primary Care Residents
April 26, 2010	Brain Club, UCSF Center for Quantitative Biosciences
July 8, 2010	On Lok Gee Center, San Francisco
January 5, 2011	UCSF Neurology Department, faculty, residents and students
May 7, 2011	UCSF/SFSU Graduate Program in Physical Therapy Spring Symposium
June 15, 2011	Institute on Aging, San Francisco
August 18, 2011	UCSF Primary Care Residents
September 20, 2011	UCSF School of Nursing
October 17 <sup>th</sup> , 2011	UCSF Graduate Program
October 21, 2011	UCSF Primary Care Residents
January 31, 2012	UCSF Department of Psychiatry Grand Rounds
September 19, 2012	Clinical Conference, UCSF Neurology
September 28, 2012	California Physical Therapy Annual Conference

**CME courses Attended**

2005	9 <sup>th</sup> International Congress of Parkinson's disease and Movement Disorders
2005	Pain Management and End of Life Care
2005	Symposia on Etiology Pathogenesis and Treatment of Parkinson's disease
2005	Frontiers in Neurology and Neuroscience, UCSF
2006	39 <sup>th</sup> Annual Recent Advances in Neurology
2006	American Academy of Neurology Annual Meeting
2006	10 <sup>th</sup> International Congress of Parkinson's disease and Movement Disorders
2007	American Academy of Neurology Annual Meeting
2007	American Society of Gene Therapy
2008	Twelfth International Congress of Parkinson's disease and Movement Disorders
2008	133 <sup>rd</sup> Annual Meeting of the American Neurological Association
2010	American Academy of Neurology Annual Meeting
2011	Fifteenth Annual International Congress of Parkinson's disease and Movement Disorders
2011	American Academy of Neurology Annual Meeting
2012	American Academy of Neurology Annual Meeting

**GOVERNMENT and OTHER PROFESSIONAL SERVICE**

August 2005	Outside Grant reviewer for the Northern California Institute for Research and Education
July 2007- ongoing	NET PD-LS1 Recruitment and Retention Committee
October 5, 2007	NIH Center for Scientific Review BDCN N (02) M Member conflict Special Emphasis Panel

**University and Public Service**

2012 UCSF Committee on Academic Planning and Budget

My principle work in University and public service has been in community education.

**Community Outreach (since 2007)**

- April 21, 2007 Interview for Channel 26 San Francisco Bay Area
- May 12, 2007 UCSF Parkinson’s disease Conference, San Francisco
- June 29<sup>th</sup>, 2007 Caregivers Peninsula Parkinson’s Support Group
- January 31<sup>st</sup>, 2008 Co-host for Bay health care providers to the Chinese population
- April 16, 2008 Berkeley Parkinson’s disease Support Group
- October 2, 2008 San Leandro Parkinson’s disease Support Group
- November 22<sup>nd</sup>, 2008 UCSF Parkinson’s disease symposium, Mission Bay
- March 25, 2009 Primary Care Residents, Saint Mary’s Hospital, San Francisco
- October 9, 2009 Alma Via of San Francisco, Eldercare Assisted Living Community
- November 12, 2009 Magnolia Parkinson Support Group
- November 14, 2009 UCSF Parkinson’s disease Conference, Westin Hotel, San Francisco
- January 29<sup>th</sup>, 2010 Participant in a UCTV video program for Parkinson’s disease patients and caregivers
- May 26, 2010 Berkeley Parkinson’s disease Support Group
- June 15<sup>th</sup>, 2010 UCSF Asia Heart and Vascular Center
- July 8<sup>th</sup>, 2010 On Lok Health Center Staff CME, San Francisco
- November 13, 2010 UCSF Parkinson’s disease Conference, Westin Hotel, San Francisco
- January 22, 2011 Parkinson’s Association of Northern California
- January 24, 2011 “Dose of Hope” TV documentary
- January 27, 2012 “Parkinson’s disease: Latest from the Experts” TV documentary
- October 11th 2012 “Developing new treatments for Parkinson's disease using gene therapy"  
Berkeley/Oakland Forum
- April 27, 2013 UCSF Parkinson’s disease Conference, Mission Bay

**TEACHING AND MENTORING**

**Formally scheduled Classes for UCSF Students**

- 1999-present Consult attending (2-4 weeks per year)
- 1998-present Teaching Attending for Clinical Neurology, Neuro 110
- 2001-2010 Clerkship Preparation Exercise, 1 hour/year School of Medicine
- 2002-present Brain, Mind and Behavior (BMB) Apprenticeship (6 hours/year)
- 2006-2007 Parkinsonism: phenotype and pathogenesis “Brain, Mind and Behavior”

**Supervision, Teaching and mentoring of Undergraduate student:**

Dates	Name	Program	Role	Current Position
January – June 2010	Andrew Ng	Professional development	Teacher and Mentor	Medical student
June 2010- August 2010	Kylie Deng	Professional development	Teacher and Mentor	College Student

**Supervision, Teaching and mentoring of Movement Disorder Fellows:**

Dates	Name	Program	Role	Current Position
2002-3	Tony Mosley	Neurology Fellowship	Teacher , Mentor	Attending
2004-5	Suketu Khandar	Neurology Fellowship	Teacher ,Mentor	Attending, Kaiser Sacramento
2005-6	Ken Nakamura	Neurology Fellowship	Teacher , Mentor	Assistant Professor, UCSF
2006-7	Stacie Daniels	Neurology Fellowship	Teacher , Mentor	Attending, Kaiser
2008-9	Nicholas Galifianakis	Neurology Fellowship	Teacher , Mentor	Attending, UCSF
2008-9	Rima Ash	Neurology Fellowship	Teacher , Mentor	Attending, Kaiser San Francisco
2008-9	Carson Lawall	Neurology Resident	Teacher , Mentor	Attending
2009-	Amy Tso	Neurology Resident	Teacher , Mentor	Attending
2009-	Jennifer Witt	Neurology Fellow	Teacher , Mentor	Attending
2009	Adolfo Ramirez-Zamora	Neurology Fellow	Teacher , Mentor	Assistant Professor
2010	Camilla Kilbane	Neurology Fellow	Teacher , Mentor	Assistant Prof
2011	Maya Katz	Neurology Fellow	Teacher , Mentor	Fellow
2012	Kelly Mills	Neurology Fellow	Teacher , mentor	Fellow
2012	Maura Madoa	Neurology Resident	Teacher , mentor	Resident

**FACULTY MENTORING**

Dates	Name	Position while mentored	Role	Current Position
2008-9	Karunesh Ganguly,	Adjunct Instructor	Career Advisor	Adjunct Instructor

2012	Suzee Lee	Adjunct Assistant Prof	Mentor	Assistant Clinical Professor
2011	Simon Akerman	Adjunct Assistant Prof	Mentor	Adjunct Assistant Prof

**TEACHING AIDS**

From January 2006- January 2007, I developed self-contained basic course of movement disorders using video examples for medical students. This activity was supported by a grant from the UCSF Academy of Medical educators. The Web-based teaching modules using streaming video examples remain available on the UCSF Intranet. It covers the following topics: Parkinsonism, Chorea, Tremor, Ataxia, and Tics and Myoclonus. This course has become a mandatory component of the 3<sup>rd</sup> year Neurology rotation.

**Teaching Professional Development Activities:**

- September 17, 2004 “What the best teachers do: thinking about learning. Academy of Medical Educators, UCSF
- February 8, 2005 Observed one-on-one precepting with Dr. Maria Wamsley; Academy of Medical Educators, UCSF
- April 23, 2007 attended lecture “Moving Educational Activities into Scholarship” by David Irby, PhD
- April 23, 2007 attended lecture “The Effective and Engaging Large Medical Lecture” by Steven Schlozman, MD
- April 23, 2007 Poster Presentation of “Self Contained Tutorials of Movement Disorders using video examples” at the UCSF Education day.”
- April 22, 2008 attended UCSF Educator’s Portfolio Workshop by Martin Bogetz and Jessica Muller
- November 18<sup>th</sup>, 2008 attended One Minute Preceptor led by Arianne Teherani, PhD  
Andi Marmor, MD

**SUMMARY OF TEACHING HOURS**

**Annual teaching of UCSF Medical students**

Outpatient Neurology (110) 4hrs/week 200 hrs/year (students)  
 Ward/Teaching Attending 14 hrs/week 28 hrs/year (medical students and residents)  
 Brain, Mind, and Behavior: Neurology Apprenticeship 6 hrs/year (medical students)  
 Parnassus Integrated Student Clinical Experiences Neuroswaps (PISCES 2008-9) 12hrs/year  
 Prior year teaching hours 2011-12 234 hours  
 Anticipated total teaching hours 2012-13 240 hours

**Annual teaching of UCSF Residents:**

Supervision of UCSF Neurology residents in clinic 160 hrs/year  
 Supervision of UCSF Neurology residents for Ward/Consults 40hrs/year



Prior year teaching hours 2009-10	118 hours
Anticipated total teaching hours 2010-2011	200 hours
Anticipated total teaching hours 2010-2011	200 hours

## **RESEARCH AND CREATIVE ACTIVITIES**

### **RESEARCH AWARDS AND GRANTS**

#### Current funding

##### **NINDS**

**July 2006-June 2012**

Co-investigator for “Parkinson’s Disease Neuroprotection Clinical Trial (NET-PD)”, LS-1

The major goal of this trial is to institute a Multi-Center Study to evaluate the efficacy of neuroprotective agents in Parkinson’s disease. The third phase, LS-1, determines if there is slowing of clinical decline in PD patients defined by a combination of cognitive, physical, and quality of life measures. Active treatment with **creatine** will be compared to placebo control.

Site Investigator for “Pioglitazone in Early Parkinson’s Disease (FS-Zone)” **2011-2013**

This study is a sub-study of the NET-PD studies. The goal of this study is to evaluate the safety and efficacy of pioglitazone as a putative neuroprotective agent in early Parkinson’s disease.

##### **Genzyme Corporation**

**December 2006-Present**

Co-investigator for “Aromatic L-Amino Acid Decarboxylase Gene Transfer therapy for Parkinson’s disease: initial results of an open-label, dose escalation, safety and tolerability study.

The major goal of this project is to enroll and follow patients with moderate to advanced Parkinson’s disease in a phase 1 study of gene therapy. All 10 subjects have been enrolled in this study and are being followed to assess safety and efficacy.

##### **MJFOX Foundation/Kinemed**

**July 2012-December 2014**

The new CSF study is funded by a grant from MJFOX Foundation to Kinemed “Cross-sectional examination of cerebrospinal fluid kinetic biomarkers of axonal transport for Parkinson disease diagnosis and progression”.

The goal of this study is to determine whether protein turnover is different in patients than in controls. If it is found to be different, then this technique might be used as a preclinical marker of disease progression.

##### **MJFOX Foundation**

**July 2013-Dec 2014**

A Phase 1 Open-Label Safety and Efficacy Study of Adeno-Associated Virus Encoding Human Aromatic L-Amino Acid Decarboxylase (AAV2-hAADC) Administered by MRI-Guided Real-Time Convective Infusion in the Putamen of Subjects with Parkinson’s Disease with Fluctuating Responses to Levodopa (

**PEER REVIEWED PUBLICATIONS:**

Gitter, A. H., K.W. Beyenbach, **C.W. Christine**, P. Gross, W. Minuth and E. Frömter. "High-conductance K<sup>+</sup> channel in apical membranes of principal cells cultured from rabbit renal cortical collecting duct anlagen." Pflugers Archiv. 1987; 408: 282-90.

Weiss, J.H., **C.W. Christine**, and D.W. Choi. "Bicarbonate-dependence of glutamate receptor activation by β-N-methylamino-L-alanine (BMAA): single channel recording and study with related compounds." Neuron. 1989; 3: 321-26.

Laskowski, F.H., **C.W. Christine**, A.H. Gitter, K.W. Beyenbach, P. Gross, and E. Frömter. "Cation channels in the apical membrane of collecting duct principal cell epithelium in culture. Renal Physiology and Biochemistry. 1990; 13: 70-81.

Rose, K., **C.W. Christine**, and D.W. Choi. "Magnesium removal induces paroxysmal neuronal firing and NMDA mediated neuronal degeneration in cortical cultures." Neuroscience Letters. 1990; 115: 313-7.

Giffard, R. G., H. Monyer, **C. W. Christine**, and D.W. Choi. "Acidosis reduces NMDA receptor activation, glutamate neurotoxicity, and oxygen-glucose deprivation neuronal injury in cortical cultures." Brain Research. 1990; 506: 339-42.

**Christine, C.W.** and D.W. Choi. "Effect of zinc on NMDA receptor-mediated channel currents in cortical neurons." Journal of Neuroscience, 1990; 10: 108-16.

**Christine, C.W.** and Laskowski, F.H., Gitter, A.H., Beyenbach, K.W., Gross, P., and Frömter, E. Anion channels in the apical membrane of collecting duct principal cells in culture. Cell. Physiol. Biochem. 1991; 13:76-88.

Lissin, D.V. Gomperts, S.N., Carroll, R.C., **Christine, C.W.**, Kalman, D., Kitamura, M., Hardy, S., Nicoll, R.A., Malenka, RC, von Zastrow, M. "Activity differentially regulates the surface expression of synaptic AMPA and NMDA glutamate receptors." Proc. Natl. Acad. Sci. USA 1998; 95:7097-7102.

Starr PA, **Christine CW**, Theodosopoulos PV, Lindsey N, Byrd D, Mosley A, Marks WJ Jr. Implantation of deep brain stimulator electrodes into the subthalamic nucleus: technical approach and magnetic resonance imaging-verified electrode locations. J Neurosurg; 2002; 97:370-387.

Theodosopoulos, PV, Marks, WJ, **Christine, CW**, Starr, PA. Locations of movement-related cells in the human subthalamic nucleus in Parkinson's disease. Mov Disord. 2003; 18: 791-98.

Parkinson Study Group. A controlled trial of rotigotine monotherapy in early Parkinson's disease (**Christine, CW**, Site Principle investigator). (The PATCH study) Arch Neurol. 2003; 60:1721-1728.

- Christine CW**, Aminoff, MJ. Clinical differentiation of parkinsonian syndromes: prognostic and therapeutic relevance. *Amer. J Med.* 2004 117:412-19.
- Elm JJ, Goetz, C, Ravina B et al (**Christine, CW**, participating coinvestigator). A responsive outcome for Parkinson's disease neuroprotection futility studies. *Ann Neurol.* 2005; 57:197-203.
- Lieberman MA, Winzelberg A, Golant M, Wakahiro M, DiMinno M, Aminoff M, **Christine, C**. Online support groups for Parkinson's disease patients; a pilot study of effectiveness. *Social Work in Health Care* 2005; 42:23-38.
- Tilley BC, Palesch, YY, Kieburtz, K, et al (**Christine, CW**, participating coinvestigator). Optimizing the ongoing search for new treatments for Parkinson's disease, using futility designs. *Neurology* 2006; 66:628-633.
- The NINDS NET-PD Investigators(**Christine, CW**, participating coinvestigator).. A randomized, double blinded, futility clinical trial of creatine and minocycline in early Parkinson's disease. *Neurology* 2006; 66:664-671.
- Singer C, Lamb J, Ellis A et al (**Christine, CW**, Site principle investigator).. A comparison of sumanirole versus placebo or ropinirole for the treatment of patients with early Parkinson's disease. *Mov Dis* 2007; 22:476-82.
- Garwood ER, McCulloch CR, **Christine CW**. Amphetamine exposure is elevated in ALS, Parkinson's disease and peripheral neuropathy patients. *Neurotoxicology* 2006; 27:1003-6.
- The NINDS NET-PD Investigators (**Christine, CW**, participating coinvestigator). A randomized clinical trial of coenzyme Q10 and GPI-1485 in early Parkinson disease. *Neurology* 2007; 68:20-28.
- Nakamura K, **Christine CW**, Starr PA, Marks WJ Jr. Effects of unilateral subthalamic and pallidal deep brain stimulation on fine motor functions in Parkinson's disease. *Mov Disord.* 2007; 22: 619-26.
- Elm JJ, Kamp C, Tilley BD, et al (**Christine, CW**, participating co-investigator). Self-reported adherence versus pill count in Parkinson's disease: the NET-PD experience. *Mov Disord.* 2007; 22:822-7.
- Eberling, JL, Jagust WJ, **Christine CW**, et al. Results from a Phase I Safety Trial of hAADC Gene Therapy for Parkinson's Disease. *Neurology* 2008; 70:1980-3. I recruited all 10 patients into this study, conducted all of the baseline and major milestone visits, and analyzed the clinical data.
- Pankratz N, Marder KS, Halter CA, et al (**Christine, CW**, participating co-investigator). Clinical correlates of depressive symptoms in familial Parkinson's disease. *Mov Disord.* 2008; 23:2216-23.
- The NINDS NET-PD Investigators (**Christine, CW**, participating coinvestigator). "A Pilot Trial of

- Creatine and Minocycline in Early Parkinson's Disease: 18 Month Results" Clin Neuropharmacol 2008; 31: 141-50.
- Hauser RA, Shulman LM, Trugman JM, et al (**Christine CW**, participating co-investigator). Study of istradefylline in patients with Parkinson's disease on levodopa with motor fluctuations. *Mov Disord.* 2008 23: 2177-85.
- Latourelle JC, Pankratz N, Dumitriu A, et al. (**Christine CW**, participating co-investigator) Genomewide association study for onset age in Parkinson disease. *BMC Med Genet.* 2009;10:98.
- Christine CW**, Langston WJ, Turner RS, Starr PA. Effect of deep brain stimulation in a human with MPTP-induced parkinsonism. *J. Neurosurg* 2009; 110: 234-8.
- Pankratz N, Kissell DK, Pauciulo, MW et al. (**Christine CW**, participating co-investigator) Parkin dosage mutations have greater pathogenicity in familial PD than simple sequence mutations. *Neurology* 2009; 73:279-286.
- Nichols WC, Kissell DK, Pankratz N, et al. (**Christine CW**, participating co-investigator) Variation in GIGYF2 is not associated with Parkinson disease. *Neurology* 2009;72:1886-92.
- Nichols WC, Pankratz N, Marek DK, et al. (**Christine CW**, participating co-investigator) Mutations in GBA are associated with familial Parkinson disease susceptibility and age at onset. *Neurology* 2009;72:310-6.
- Parashos SA, Swearingen CJ, Biglan KM et al. (**Christine CW**, participating co-investigator) Determinants of the Timing of Symptomatic Treatment in Early Parkinson Disease. *Arch Neurol.* 2009; 66:1099-104.
- Kao AW, MD, Racine CA, Quitania LC, Kramer J, **Christine CW**, Miller, BL. Cognitive and Neuropsychiatric Profile of the synucleinopathies: Parkinson disease, dementia with Lewy bodies and multiple system atrophy. *Alzheimer Dis Assoc Disord.* 2009; 23:365-70.
- Christine CW**, Starr PA, Larson PS, Eberling JL, Jagust WJ, VanBrocklin HF, Bankiewicz KS, Aminoff, MJ. Safety and tolerability of putaminal AADC gene therapy for Parkinson's disease. *Neurology* 2009; 73:1662-9.
- Ostrem JL, **Christine CW**, Glass GA, Schrock LE, Starr PA. Pedunculopontine Nucleus Deep Brain Stimulation in a Patient with Primary Progressive Freezing Gait Disorder. *Stereotact Funct Neurosurg* 2010; 88:51-55.
- Christine CW**, Garwood, ER, Schrock L, Austin, DE, McCulloch, CE. Parkinsonism in patients with a history of amphetamine exposure *Mov Disord* 2010; 25: 228-31.
- Elble RJ, Suchowersky O, Shaftman S, et al. (**Christine CW**, participating co-investigator) Impact of belief in neuroprotection on therapeutic intervention in Parkinson's disease. *Mov Disord.* 2010;25:1082-6.

- Simon DK, Pankratz N, Kissell DK, et al. (**Christine CW**, participating co-investigator) Maternal inheritance and mitochondrial DNA variants in familial Parkinson's disease. *BMC Med Genet.* 2010;11:53.
- Valles F, BS, Fiandaca MS, Eberling JL, Starr PA, Larson PS, **Christine CW**, Forsayeth J, Aminoff MJ, Bankiewicz KS. Qualitative Imaging of AAV2-hAADC Gene Therapy in a Phase I Study for the Treatment of Parkinson's Disease. *Neurosurgery* 2010; 67:1377-85.
- Hegde M, Glass GA, Dalmau J, **Christine CW**. A case of atypical orthostatic tremor responsive to intravenous immunoglobulin. *Mov Disord* 2011; 26:1563-65.
- Aminoff MJ, **Christine CW**, Friedman JH, et al. Management of the Hospitalized Patient with Parkinson's Disease: Current State of the Field and Need for Guidelines *Parkinsonism Relat Disord* 2011; 17:139-45.
- Chou KL, Jorge Zamudio J, Schmidt P Price C, Parashos SA, Bloem BR, Lyons KE, **Christine CW** et al. Hospitalization in Parkinson Disease: A Survey of National Parkinson Foundation Centers. *Parkinsonism Relat Disord.* 2011 17: 440-5.
- Richard IR, McDermott MP, McDonald W, Kurlan R, Lyness J, Como PG, Pearson N, Factor S, Juncos J, Ramos CS, Brodsky M, Manning C, Marsh L, Shulman L, Fernandez H, Black K, Panisset M, **Christine CW**, et al. Treatment of Depression in Parkinson's Disease: A Randomized, Double-Blind, Placebo-Controlled Trial of Paroxetine and Venlafaxine Extended Release *Neurology* 2012; 78:1229-36.
- Christine CW**, Marks WJ, Ostrem JL. Development of Parkinson's disease in patients with Narcolepsy *J Neural Transmission* 2012 119:697-9.
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### **Non-Peer Reviewed Publications:**

#### **Book Chapters**

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Christine, C author of 21 brief chapters on a variety of neurological disorders designed for the Palm Pilot. 2002 PocketMedicine/Internal Medicine.

Christine, C. "Stress, Neurological Response to" *Encyclopedia of the Neurological Sciences*. San Diego: Elsevier Science, 2003 pp 392-3.

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Christine CW, Aminoff, MJ. "Movement Disorders Associated with General Medical Diseases" in Aminoff, MJ, editor *Neurology and General Medicine*, 4<sup>th</sup> Edition, Churchill Livingstone, Philadelphia 2008, pp 1095-1122.

#### **Scientific correspondence**

Weiss, J.H., J.Y. Koh, C.W. Christine and D.W. Choi. "Zinc and LTP." *Nature* (1989) 338: 212.

#### **Book Reviews**

Christine, C. Diagnostic Testing in Neurology. Randolph W. Evans (ed). Sanders. Philadelphia 2000. In: *Muscle & Nerve* 23:1776. 2000.

Christine, C. Medical Neurosciences: An approach to anatomy, pathology, and physiology by systems and levels, 4<sup>th</sup> edition. Lippincott Williams & Wilkins. Philadelphia. 1999. In *Muscle & Nerve* 21:1303-4, 2000.

#### **Other Creative Activities:**

Author of 21 brief chapters on a variety of neurological disorders designed for the Palm Pilot. 2002 PocketMedicine/Internal Medicine

Web-based teaching modules on Parkinsonism, Chorea, Tremor, Ataxia and Tics and Myoclonus 2006-7: From January 2006- January 2007, I developed self contained basic course of movement disorders using video examples for medical students. This activity

was supported by a grant from the Academy of Medical educators.

**Community Outreach and Education: Web-based Information regarding Parkinson's disease**

I was the primary author of 4 of seven articles for Parkinson's disease patients and caregivers:

- 1) Introduction to Parkinson's disease
- 2) Medications for Parkinson's disease
- 3) Surgical treatments for Parkinson's disease
- 4) Precautions for Patients considering medical or surgical treatments

These articles were last updated in December 2010 and remain available at:

<http://pdcenter.neurology.ucsf.edu/>

A second site was designed for health care practitioners was released in July 2003 and was updated in December 2010.

<http://pdcenter.neurology.ucsf.edu/education/professionals-guide>I was the primary author of the three articles:

- 1) How is Parkinson's disease treated?
- 2) Surgical Treatments for Parkinson's disease.
- 3) Recognizing other causes of Parkinson's disease.

These projects were supported by the California Department of Health Services and was done in collaboration with Michael Aminoff and Mariann Diminno.

**Television Documentaries:** together with Michael Aminoff and UCTV producers, I participated in the filming and editing of 2 documentaries aired on UCTV and other cable channels:

January 24, 2011 "Dose of Hope"

January 27, 2011 "Parkinson's disease: Latest from the Experts"

**RECENT ABSTRACTS**

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