

Thomas Charles Chelimsky, M.D.



University Hospitals Case Medical Center
Department of Neurology
11100 Euclid Avenue
Cleveland, OH 44106
Phone: (216) 844-3495
Fax: (216) 844-7624

CURRENT POSITION:

Director, Autonomic Laboratory
 Neuromuscular Center, Neurological Institute
 University Hospitals Case Medical Center
 Professor of Neurology, Anesthesiology and Pediatrics
 Case Western Reserve University School of Medicine

EDUCATION:

1974-79	Harvard University	S.B. cum laude	Biochemistry
1979-83	Washington University	M.D.	

POST-DOCTORAL TRAINING:

1983-86	Mayo Clinic	Residency	Internal Medicine
1986-89	Mayo Clinic	Residency	Neurology
1986-87	Mayo Clinic	Fellowship	Autonomic Research
1989-90	Mayo Clinic		Electromyography

LICENSURE AND CERTIFICATIONS:

American Board of Internal Medicine	1986
American Board of Electrodiagnostic Medicine	1992
American Board of Neurology	1992
Added Qualification in Clinical Neurophysiology (American Board of Neurology)	1994
Added Qualification in Pain Management (American Board of Neurology)	2000

Ohio License – active

PRINCIPAL ACADEMIC APPOINTMENTS:

Professor of Neurology 2007-
Case Western Reserve University School of Medicine, Cleveland, OH

Professor of Anesthesiology (Pain Medicine) 2007 –
Case Western Reserve University School of Medicine, Cleveland, OH

Professor of Pediatrics 2007 -
Case Western Reserve University School of Medicine, Cleveland, OH

Associate Professor of Neurology 2003-2007
Case Western Reserve University School of Medicine, Cleveland, OH

Assistant Professor of Neurology 1990-2003
Case Western Reserve University School of Medicine, Cleveland, OH

CONCURRENT ANCILLARY APPOINTMENTS: None

HOSPITAL APPOINTMENTS:

Director, Division of Autonomic Disorders 1990-present
University Hospitals of Cleveland, Cleveland, OH

Director, Pain Center, 1994-2000, 2001-2003
University Hospitals of Cleveland, Cleveland, OH

Staff, EMG Laboratory, (special interest in rectal/pudendal studies) 1990-present
University Hospitals of Cleveland, Cleveland, OH

Attending Staff, 1990-present
University Hospitals of Cleveland, Cleveland, OH

Staff, Brain Attack Protocol (Thrombolysis), 1994-1998
University Hospitals of Cleveland, Cleveland, OH

Consultant, 1990-1993
Veteran's Administration Hospital- Wade Park, Cleveland, OH

HONORS AND AWARDS:

Scholarship in Teaching Award, Case Medical School 2006 for 4PCP Project
SAGES Presidential Fellow 2004
UH Pain Program CARF 3-year Accreditation 2004: "National Leader"
Best Doctors in America 2004-2005
Best Doctors in America 2003-2004
Best Doctors in America 2002-2003

Best Doctors in America 2001-2002

UH Pain Program CARF 3-year Accreditation 1997: "Model for the Nation"

MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS:

American Autonomic Society

American College of Physicians

American Academy of Neurology

American Association of Electrodiagnostic Medicine

International Association for the Study of Pain

PROFESSIONAL SERVICE:

International

External Reviewer, Dutch Ministry of Health Care, Welfare and Sport - The Netherlands Organisation for Health Research and Development (ZonMw). 10/2003

External Reviewer, Austrian Science Fund, Vienna (Fonds zur Förderung der wissenschaftlichen Forschung (FWF) Weyringergasse 35 A 1040 Wien). 2/2004

National

A. Federal

Member and Acting Chair, NIH Study Section Special Emphasis Panel ZRG1 CFS; Chronic Fatigue Syndrome/Fibromyalgia Syndrome 7/2000-2007

Member, NIH (NINDS) Study Section Special Emphasis Panel ZNS1 SRB-A; Autonomic Disorders 2005

External reviewer, VA Merit Awards: 2002

B. Non-Federal

(AAN = American Academy of Neurology; AAS = American Autonomic Society)

Chair, UCNS autonomic fellowship accreditation committee, 2009

Educational Subcommittee Topic Work Group Member for Neuromuscular, AAN 2008-

Consensus Panel Member, Orthostatic Hypotension Definition

Chair-elect, AAN Pain Section, 2007-2009

Board of Directors, AAS, 2007-2010

Abstract reviewer, AAN Scientific Session, 2007

Co-Chair AAS Scientific Session "Music and the ANS", 2007 Vienna

Co-Chair AAS Scientific Session, 2006

Chair, AAN Autonomic Section 2004-2007

Vice-Chair, AAN Autonomic Section 2002-2004

Member of Board of Directors, National Multiple System Atrophy Association, 2000-

Councilor, AAN Pain Section 2005-2007

Chairman, AAN Scientific Session; Autonomic Section, 2000-2001

Abstract Reviewer, AAN Scientific Session; Autonomic Section 2000-2003

Secretary-Treasurer, AAN Autonomic Section 2000-2001

Webmaster, AAN Autonomic Section, 1999-2003

University

Neurology Faculty Representative, Faculty Council, School of Medicine,
Case Western Reserve University, 2007-

Interviewer for Medical School Applicants, School of Medicine Admissions Committee, 2005

Member, Tenure and Promotions Committee, Department of Neurology,
Case Western Reserve University, 1992-1995; 2003

Director, Extramural teaching and speaker's bureau, Department of Neurology, University
Hospitals of Cleveland 1992-1996

Hospital

Chairman, Credentialing Committee, Department of Neurology
University Hospitals of Cleveland, 1992-2007

Chairman, Rehabilitation Services Advisory Committee
University Hospitals of Cleveland, 1995-2003

Member, Medical Records Committee
University Hospitals of Cleveland, 1993-2003

EDITORIAL BOARDS AND REFEREE DUTIES:

<u>Ad Hoc</u> Reviewer for <u>Neurology</u>	1989-
<u>Ad Hoc</u> Reviewer for <u>NEJM</u>	2007-
<u>Ad Hoc</u> Reviewer for <u>Annals of Neurology</u>	2002-

<u>Ad Hoc</u> Reviewer for <u>The Journal of Neurosurgery</u>	1991-97
<u>Ad Hoc</u> Reviewer for <u>Mayo Clinic Proceedings</u>	1991-96
<u>Ad Hoc</u> Reviewer for <u>Clinical Autonomic Research</u>	1996-
<u>Ad Hoc</u> Reviewer for <u>Autonomic Neuroscience</u>	1999-
<u>Ad Hoc</u> Reviewer for <u>JPNS</u>	1996-98
<u>Ad Hoc</u> Reviewer for <u>Archives of Neurology</u>	2000-
<u>Ad Hoc</u> Reviewer for <u>JNNP</u>	2002-
<u>Ad Hoc</u> Reviewer for <u>Annals of Family Medicine</u>	2002-
<u>Ad Hoc</u> Reviewer for <u>J Dermatologic Science</u>	2003-
<u>Ad Hoc</u> Reviewer for <u>Diabetes</u>	2003-
<u>Editorial Board:</u> <u>Pain Physician</u>	2003-

PATENTS AND DISCLOSURES: None

INSTRUMENTS AND SPECIAL DEVICES: None

RESEARCH SUPPORT:

Principle Investigator Fishbein Family IC Research Foundation (5% effort): "Familial Aggregation of Interstitial Cystitis with Other Functional Autonomic Disorders" \$28,668; 10/1/07 to 9/30/08 Co-investigators: Buffington, T; Rackley, R.

Research Mentor, Brain-Heart Institute Award (5% effort); "Central Autonomic Regulation in Complex Regional Pain Syndrome" \$150,000; 1/1/08 to 1/1/10. PI Chemali, K

Principle Investigator (40% effort) funded by Josiah Macy Jr. Foundation, NY, "A controlled study of an interdisciplinary pain management approach led by primary care physicians" The 4PCP trial (Primary Practice Program for Patients with Chronic Pain). \$983,076. 7/1/04 to 6/30/08.

Double-blind placebo-controlled trial of Droxidopa (L-3,4-DOPS) in orthostatic hypotension. Chelsea Pharmaceuticals study investigator (5% effort). 3/1/08 to study termination. H Kaufman study director.

Site Principle Investigator (approx 5% effort), NIH multi-center study, P01 NS44233 "The pathogenesis and diagnosis of multiple system atrophy"; Project P.I. Cliff Shults, MD (UCSD Dept of Neuroscience). 7/1/03 to 6/30/06.

Shire 404 study investigator (approx 3% effort): "A Multi-Center, Double-Blind, Randomized, Placebo-Controlled Crossover Study to Assess the Clinical Benefit of Midodrine Hydrochloride in Subjects with Moderate to Severe Neurogenic Orthostatic Hypotension" (Protocol SPD426.404). 10/1/04 to 4/30/05

Shire 401 study investigator (approx 5% effort): "A Multi-Center, Double-Blind, Randomized, Placebo-Controlled Crossover Study to Assess the Clinical Benefit of Midodrine Hydrochloride in Subjects with Neurogenic Orthostatic Hypotension" (Protocol 20,762-401). 10/1/03 to 1/15/05.

Roberts Pharmaceutical Corporation (approx 5% effort): Phase 3 Study of Midodrine Hydrochloride in Subjects with Neurogenic Orthostatic Hypotension. 7/1/94 to 6/1/95.

Case Research Development Grant (RIG - \$5000): Autonomic Changes in Patients with Arthritic Limb Pain. 7/1/93 to 7/1/94.

PENDING FUNDING PROPOSALS:

R01-DK083624 Chelimsky, T PI. Familial Aggregation of Dysautonomias in Interstitial Cystitis/Painful Bladder Syndrome Proposed dates 4/1/09 to 3/31/14. \$1,766,250 over 5 years.

R01-DK083538 Neurophysiologic & Autonomic Characterization of Interstitial Cystitis/Painful Bladder Syndrome. Proposed dates 4/1/09 to 3/31/14. \$3,734,188 over 5 years.

R01-DK080911	Charles A Buffington PI	07/01/08-06/30/12	0.6 months
NIH NIDDK		\$1,364,780	5% effort

Autonomic Effects on Interstitial Cystitis in Cats

The goals of this study are to investigate the use of near-infrared reflectance spectroscopy in the diagnosis and pathophysiology of interstitial cystitis (IC) in humans and in cats with a naturally occurring form of IC (feline interstitial cystitis).

Primary Practice Physician Program for Chronic Pain (4PCP): application of the method in the state of New York. Charles Argoff Co-PI. Funding by Endo Pharmaceuticals.

INVITED PRESENTATIONS:

University of Wisconsin Research Seminar: "Gut, Nerves and Brain: A Developing Road" with Dr. Gisela Chelimsky. Feb 22, 2008, Madison, Wisconsin.

University of Alabama in Birmingham Pediatric Grand Rounds: "Pediatric Autonomic Disorders: A Large Unexplored Frontier" with Dr. Gisela Chelimsky. Feb 8, 2007, Birmingham, Alabama.

University of Nebraska School of Medicine Neuroscience Grand Rounds: "When Salt is Good" July 13, 2006, Omaha, Nebraska.

MetroHealth Hospital Pediatric Grand Rounds with Dr. Gisela Chelimsky "No Nerves – No Guts" 3/31/06, Cleveland, Ohio

University of Vermont Medicine Grand Rounds "When Salt is Good", 2/17/06, Burlington, Vermont.

University of Vermont Pediatric Grand Rounds in concert with Dr. Gisela Chelimsky "Gut Feelings and Gut Nerves", 2/17/06, Burlington, Vermont.

University of Vermont Neurology Grand Rounds "Disentangling Dysautonomias", 2/16/06, Burlington, Vermont.

University of Chicago Neurology Grand Rounds "When Pressure Falls, so Do People" 1/13/06, Chicago, Illinois.

University of Chicago Pediatrics Grand Rounds in concert with Dr. Gisela Chelimsky, "Surprising Brain-Gut Connections" 1/12/06, Chicago, Illinois.

Case Medicine Grand Rounds. "Orthostatic Syndromes" November 7, 2005, Cleveland, Ohio

Elderhealth Center. "When Falls are Faints" October 28, 2005, Cleveland, Ohio

Shy-Drager Association. Host for National Meetings; "Multiple System Atrophy and the Brain". Brookpark, OH, September 10, 2005.

UHHS Grand Rounds: Managing Pain in Primary Care. Cleveland, OH, May 11, 2005.

Sjogren's Association. Managing Pain and Autonomic Symptoms. Beachwood, OH, July, 2005.

SUNY Upstate Department of Neurology Grand Rounds. Orthostatic Syndromes. Syracuse, NY, February 7, 2005.

Case Neuroscience Grand Rounds. Orthostatic Syndromes. Cleveland, OH, October, 2004.

Cleveland Clinic Neurosciences Grand Rounds. Disentangling Dysautonomias. Cleveland, OH, September 27, 2004.

University of Arkansas Neurology Grand Rounds: Evaluating Autonomic Disorders. Little Rock, Arkansas, September 17, 2004.

Susquehanna Health System Resident Conference: Diagnosis and Management of Orthostatic Syndromes. Williamsport, PA, July 16, 2004.

Susquehanna Health System Medical Grand Rounds: Autonomic Testing. Williamsport, PA, July 16, 2004.

Metrohealth PM&R Rounds. Complex Regional Pain Syndrome. Metrohealth Medical Center. Cleveland, OH, May 20, 2004.

North East Ohio Emergency Physicians: Faints, Fits and Falls. Ritz-Carlton, Cleveland, OH, April 22, 2004.

Ohio State University Neurology Grand Rounds. Disentangling Dysautonomias. Columbus, OH, February 24th, 2004.

**PARTICIPATION IN POST-GRADUATE EDUCATION COURSES:
(AAN = American Academy of Neurology)**

Role	Course Name	Location	Sponsor	Date
<i>Lecturer (1h)</i>	Small Fiber Neuropathy	Chicago	AAN	4/09
<i>Director (4h)</i>	Autonomic Disorders	Chicago	AAN	4/09
<i>Lecturer (1h)</i>	Small Fiber Neuropathy	Chicago	AAN	4/08
<i>Lecturer (1h)</i>	Autonomic Disorders	Chicago	AAN	4/08
<i>Lecturer (1h)</i>	How to test the Autonomic Nervous System	Chicago	AAN	4/08
<i>Lecturer (1h)</i>	Small Fiber Neuropathy	Boston	AAN	4/07
<i>Lecturer (1h)</i>	Autonomic Disorders	Boston	AAN	4/07
<i>Course Director (4h)</i>	Primary Care Physician Workshop in Chronic Pain – Passivity, Action and the Opiate Quandary	Cleveland	Macy Foundation	2/07
<i>Lecturer (1h)</i>	NIDDK International Symposium on Painful Bladder Disorders	Wash DC	NIH	10/06
<i>Course Director (4h)</i>	Primary Care Physician Workshop in Chronic Pain – Kick-off Cycle 2	Cleveland	Macy Foundation	9/06
<i>Course Director (4h)</i>	Syncope	San Diego	AAN	4/06
<i>Lecturer (1h)</i>	Autonomic Disorders	San Diego	AAN	4/06
<i>Course Director (4h)</i>	Primary Care Physician Workshop in Chronic Pain – Opiates A to Z	Cleveland	Macy Foundation	2/06
<i>Course Director (4h)</i>	Primary Care Physician Workshop in Chronic Pain – Basic Principles	Cleveland	Macy Foundation	10/05
<i>Course Director (4h)</i>	Primary Care Physician Workshop in Chronic Pain Analgesic Adjuvants	Cleveland	Macy Foundation	7/05
<i>Lecturer (1h)</i>	Autonomic Disorders	Miami	AAN	4/05
<i>Lecturer (1h)</i>	How the Autonomic System Works	Cleveland	Cyclic Vomiting Syndrome National Association	5/03
<i>Course Director (3h)</i>	Neurology: Pain and Addiction	Cleveland	Case Mini Med School	5/03
<i>Course Director (7 h)</i>	Post-Herpetic Neuralgia	Cleveland	Pfizer	11/02
<i>Course Director (8 h)</i>	Ups and Downs of Opiates	Cleveland	Case CME	10/02
<i>Course Director (8 h)</i>	Pain Management Team Building	Cleveland	Case CME	5/01
<i>Course Director (4 h)</i>	Active Learning Environment For Pain Management	Cleveland	Case CME	Many 01 - 04
<i>Lecturer (10 h)</i>	Chronic Pain and Addiction	Capetown, S.A.	Case CME	9/01

<i>Lecturer</i> (1 h)	Syncope	Cleveland	UH CME	3/01
<i>Lecturer</i> (1 h)	Diabetic Neuropathy	Cleveland	Diabetes Assoc. of Greater Cleveland	11/01
<i>Lecturer</i> (1 h)	Neurology for non-neurologist	Cleveland	UH CME	11/01

TEACHING RESPONSIBILITIES, CASE WESTERN RESERVE UNIVERSITY:

Lectures and Course Leadership

Mentor, Summer Program Undergraduate Research (SPUR), Student Rein Lambrecht, 2006

Drug Action and Biodisposition Committee, 2006-7. All Pain Management small groups (8h).
Community Patient Care Preceptorship,; (30 hours/year).

MS I, Ryan Chamberlain, 2006

MS I, Tai Kobayashi, 2007

MS I, Steve Soto, 2008

Director & Presidential Fellow, SAGES Undergraduate Seminar, "Where Mind and Body Meet",
Fall 2004, (40 hrs)

Physical Diagnosis "The Neurological Examination" 1994-2004 (2h/yr)

Director, Neuroscience Committee Small Groups & Laboratories, MS II, 1994-1998 (80 hrs/yr).

Faculty, Neuroscience Committee 1991-2001. Lectures: "The Hypothalamus"; "Autonomic
Function"; "Cranial Nerves"; "Motor Systems"; "Limbic System": "Introduction to Neuroscience";
"Case Based Review of Cranial Nerves"; "Thalamic Pathways."

Faculty, Systems Neuroscience (Neur 406) 2 hours/yr "The Brainstem", 1995-1998

Director, Flexible Program, Type A, MS I & II (Mechanisms and Management of Pain), 1994-
1996 (12 hrs/yr)

Neuroscience Core Clerkship Case Oriented Problem Solving, MS III & IV group discussions
(6hrs/year) 1990-present

Neuroscience Teaching on Rounds MS III & IV (120hrs/yr) 1990-present

MSTP Medical Student Clinical Advisor (24 hrs/yr).

Case Western Reserve University, School of Medicine, 1990-2008

Teaching, Residency and Fellowship

Lectures to Various Residency Programs on Pain Management (3h/yr approx) 1990-2004

Director, Pain Center Fellowship Program (Journal Club and Mentoring 150 hours/yr)
University Hospitals of Cleveland, 1994-2004

Director, Resident Mock Boards, Department of Neurology (6 hrs/yr).
Case Western Reserve University, 1992-1998

Director, Autonomic Training, Department of Neurology (25 hrs/yr).
University Hospitals of Cleveland, 1993-present

Board Reviews for Internal Medicine Residents 1993-1998 (4hrs/yr)

Attending Staff, EMG Training Program (100 hrs/yr).
University Hospitals of Cleveland, 1990-present

Attending Neurology Staff, Neurology Residency Training Program (240 hrs/yr).
Case Western Reserve University, 1992 – present

THESIS COMMITTEES:

Tim Mariano, PhD, “Neural Prosthetics for Micturition & Continence” - 2007

Kate Stiller, PhD, “Therapeutic Touch in Fibromyalgia” - 2006

STUDENTS / RESIDENTS MENTORED IN THE AUTONOMIC LABORATORY:

Name	Project	Publication (below)	Year	Current Position
Steve Arbogast MD	Hypotension unawareness	Award winner for AAS meetings in Vienna	2008	EMG Fellow
Mike Chilungu MD	Migrainous syncope		2008	
Doug Myles	Teaching residents autonomic disorders	Applied for education grant from AAN	2008	
Elizabeth Heller	Familial Associations of Autonomic disorders with IC	Abstracts	2008	
Kate Pollard	Schwann cell changes in dysautonomia	Submitted to Autonomic neurosci	2007	
Ajitesh Ojha	Validation of POTS questions for ODYSA		2007	
Shruti Madan	Develop Menstrual q's for ODYSA; CVS focus		2006	
Laura Santurri	ODYSA, urinary focus	none	2005	MPH student, Case
Rein Lambrecht	Rapid ANS Cardio-vascular Evaluation	Lambrecht et al, Auton.Neuroscience	2005	BS student Case
Devraj Sukul	Does Neuropathy Cause Type 2 Diabetes?	none	2005	BS student Case
Alison Molnar	ODYSA, POTS focus	Molnar et al. Clinical Autonomic Research	2003	BS/MD student, Case
Veena Goud	Skin blood flow in CRPS	Goud et al. Clinical Autonomic Research	2002	College student, Case

Kamal Chemali, MD	Adrenergic sweat in CRPS	Chemali et al. Annals of Neurology	2000	Staff, Cleveland Clinic
Revital Gorodeski	Adrenergic sweat in CRPS	Chemali et al. Annals of Neurology	2000	Med student, Tufts
Seth Willen	Impact of pain management in CRPS	Singh et al. Pain Physician	1999	Med student, Case
Akash Patel	LBNP as a clinical test	Patel et al. Muscle & Nerve	1998	MSTP, Northwestern
Jennifer Engstrom	LBNP as a clinical test	Patel et al. Muscle & Nerve	1998	Resident, UH/Case
Jose Suarez, MD	Autonomic effect of angiotensin system		1997	Staff, Case dept of neurology
Joe Sharp	Near-infrared Spectroscopy in CRPS	Chelimsky et al. Adv Exp Med & Biol	1995	Med student, OSU
Dawn Durrell	Near-infrared Spectroscopy in CRPS	Chelimsky et al. Adv Exp Med & Biol	1994	?
Leonard Weinberger, MD	Baroreflex function in sleep		1993	Neurologist, Cleveland

FELLOWS TRAINED IN THE PAIN CENTER:

Name	Position	Year	Current Position
Erik Armitano, M.D.	Pain Fellow	7/03-6/04	Neurologist, Seattle WA
Marek Buczek, M.D.	Pain/EMG Fellow	1/02-12/02	Full-time staff, CASE Neurol.
Gurwant Singh, M.D.	Pain/EMG Fellow	7/00-6/01	Neurologist, Alberta, Canada
Enawgaw Mehari, M.D.	Pain/EMG Fellow	9/99-9/00	Academic Staff, U. Kentucky, Louisville
Alicia Rymut, M.D.	Pain/EMG Fellow	7/98-6/99	Neurologist, Diamond HA Clinic, Ann Arbor, MI
Hatem Murad, M.D.	Pain/EMG Fellow	7/97-6/98	Neurologist, Saudi Arabia
José Casanova, MD, Ph.D.	Pain/EMG Fellow	7/96-6/97	Neurologist, Canton, OH
Joel Vandersluis, M.D.	Pain/EMG Fellow	7/95-6/96	Neurologist, Dayton, OH

BIBLIOGRAPHY:

Manuscripts under Review

Alshekhlee A, Shen,WK, Mackall J, Chelimsky TC Syncope: Incidence and Mortality Rate from the National Inpatient Sample Database To: American Journal of Med 5/08

Safder S, Chelimsky TC, Chelimsky G, The meaning of abdominal pain replication by tilt study. To Pediatrics.

Chelimsky G, Safder S, Chelimsky TC, Features of Abdominal Migraine in Children. Submitted to JPGN.

Original Articles

Arbogast S, Alsheklee A, Hussain Z, Chelimsky TC: Hypotension Unawareness – Asymptomatic Orthostatic Hypotension. *Am J Med*. 2009 Accepted for publication.

Alsheklee A, Shen WK, Mackall J, Chelimsky TC: Incidence and Mortality Rates of Syncope in the United States. *Am J Med*. 2008 Dec 18. Epub ahead of print.

Alsheklee A., Guerch M., Faisal Ridha F, Mcneeley K, Chelimsky TC. Postural Tachycardia Syndrome with Asystole on Head-up Tilt *Clin Auton Res*. 2008 Feb;18(1):36-9. Epub 2007 Oct 19.

Chelimsky TC, Chelimsky G: Autonomic Abnormalities in Cyclic Vomiting Syndrome *J Pediatr Gastroenterol Nutr*. 2007 Mar;44(3):326-30.

Lambrecht R, McNeeley KM, Tusing L, Chelimsky TC: Evaluation of a Brief Cardiovascular Autonomic Screen. *Auton Neurosci*. 2007 Jan 30;131(1-2):102-6. Epub 2006 Oct 5.

Ozelius LJ, Foroud T, May S, Senthila G, Sandroni P, Low PA, Reich SG, Colcher A, Stern MB, Ondo WG, Jankovic J, Huang N, Tanner CM, Novak P, Gilman S, Marshall FJ, Wooten GF, Chelimsky TC, Shults CW, and the North American Multiple System Atrophy Study Group: G2019S mutation in the leucine-rich repeat kinase 2 gene is not associated with multiple system atrophy. *Mov Disord*. 2007 Mar 15;22(4):546-9. Jan 17 Epub ahead of print.

Rao DS, Infeld MD, Stern RC, Chelimsky TC: Cough-Induced Hemiplegic Migraine with Impaired Consciousness in Cystic Fibrosis. *Pediatric Pulmonology*. 2006 Feb;41:171-6.

Al-Sheklee A, Lindenberg JR, Hachwi RN, Chelimsky TC: The Value of Autonomic Testing in Postural Tachycardia Syndrome. *Clinical Autonomic Research* 15:219-222, 2005.

Chelimsky G, Shanske S, Hirano M, Zinn AB, Cohen M, McNeeley KM, Chelimsky TC: Achalasia As The Harbinger Of A Novel Mitochondrial Disorder In Childhood. *Journal of Pediatric Gastroenterology and Nutrition*. 40:512-7, 2005.

Chelimsky G, Wiznitzer M, Chelimsky TC: Vomiting and Gastroparesis in Thoracic Myelopathy with Pure Sympathetic Dysfunction. *Journal of Pediatric Gastroenterology and Nutrition*. 426-430, 2004.

Singh G, Willen SW, Boswell MV, Janata JJ, University Pain Center Staff, Chelimsky, TC: The Value of Interdisciplinary Pain Management in Complex Regional Pain Syndrome Type I: A Prospective Outcome Study. *Pain Physician* 7:203-209 2004.

Chelimsky G and Chelimsky TC: Evaluation and treatment of autonomic disorders of the gastrointestinal tract. *Seminars in Neurology* 23:453-458, 2003.

Kabbara AI, Chelimsky TC, Boswell MV: Paresthesiae during radiofrequency neurolysis of lumbar sympathetic trunk in CRPS: evidence of a sympatho-sensory connection? *Pain Physician*, 6:421-424, 2003.

Al-Sheklee A, Eccher M, Chelimsky TC: Acute paraneoplastic dysautonomia. *Eur Neuro*, 49:64-65, 2003.

Riley DE, Chelimsky TC: Autonomic nervous system testing may not distinguish multiple system atrophy from Parkinson's disease. *Journal of Neurology, Neurosurgery and Psychiatry*, 74:56-60, 2003.

Chelimsky TC, Neal P, Westbrook E: Predisone eliminates the electrophysiologic decrement of myotonia congenita. *Journal of Neuromuscular Disorders*, 4:75-77, 2002.

Al-Sheklee A, Preston DP, Chelimsky TC: Small Fiber Neuropathy (invited review with peer-review) *The Neurologist* 8:237-253, 2002.

Chelimsky G, Chelimsky TC: Familial Association of Autonomic and Gastrointestinal Symptoms: *Clinical Autonomic Research*, 11: 383-386, 2001.

Hsieh, C, McNeeley KJ, Chelimsky TC: The Clinical Thermoregulatory Sweat Test Induces Maximal Sweating. *Clinical Autonomic Research*, 11:227-234, 2001.

Chemali KR, Gorodeski R, Chelimsky TC: Alpha-adrenergic supersensitivity of the sudomotor nerve in complex regional pain syndrome. *Annals of Neurology*, 49: 453-459; 2001.

Patel AR, Engstrom JE, Tusing LD, McNeeley KJ, Chelimsky TC: Lower Body Negative Pressure—A Test of Cardiovascular Autonomic Function. *Muscle & Nerve*, 24: 481-487, 2001.

Chelimsky G, Boyle JT, Tusing LD, Chelimsky TC: Autonomic Abnormalities in Children with Functional Abdominal Pain: Coincidence or Etiology? *Journal of Pediatric Gastroenterology and Nutrition*, 33:47-53, 2001.

Chelimsky, G., Hupertz, V., Chelimsky, TC: Abdominal Pain As The Presenting Symptom Of Post-Prandial Orthostatic Hypotension: A Pediatric Case Report. *Clinical Pediatrics*, 1999 38:725-729.

Richutti V, Seftel AD, Haas CA, Chelimsky TC, Goldstein E. Pudendal nerve injury associated with avid bicycling. *Journal of Urology* 162: 2099-100, 1999.

Chelimsky TC, McNeeley KM, Comfort B, Piantadosi CA, LaManna JC, The effect of exercise and ischemia on tissue oxymetry in normal subjects, patients with chronic limb pain, and patients with mitochondrial mitopathies. In: *Oxygen Transport to Tissue XVIII, Volume 411 of: Advances in Experimental Medicine and Biology*, Nemoto EM, LaManna JC Eds. 1995

Chelimsky G, Wszolek ZK, Chelimsky TC. Gastrointestinal dysfunction in autonomic neuropathy *Seminars in Neurology*, 1996:16, 259.

Chelimsky, TC, Low PA, Naessens JM, Wilson PR, Amadio PC, O'Brien PC Reflex sympathetic dystrophy *Mayo Clin Proc.* 1996 May; 71 (5); 524.

Lacey SH, Chelimsky TC: Controversies in Etiology, Avoidance and Treatment of Reflex Sympathetic Dystrophy. *Current Opinion in Orthopedics*, 1995, 6: 45-50.

Chelimsky TC, Low PA, Naessens JM, Wilson PR, Amadio PC, and O'Brien PC. The Value of Autonomic Testing in Reflex Sympathetic Dystrophy. *Mayo Clinic Proceedings*, 1995 70: 1029-1040

Harper CM, Low PA, Fealey RD, Chelimsky TC, Proper CJ, Gillen DA. Utility of thermography in the diagnosis of lumbosacral radiculopathy. *Neurology* 41:1010-1014, 1991.

Saper CB, Chelimsky TC. A cytoarchitectonic and histochemical study of Nucleus Basalis and associated cell groups in the normal human brain. *Neuroscience* 13:1023-1037, 1984.

Chapters

Chelimsky, TC: Pain in Diagnosis Based Neurology Demos, NY, 2008 in press.

Chelimsky TC, Armitano E, Pidgeon, J. Complex regional pain syndrome. In: Gilman S, editor. MedLink Neurology. San Diego: MedLink Corporation. Available at www.medlink.com. Accessed January 15, 2007.

Chelimsky, TC: Autonomic Manifestations of Parkinson's Disease, in press. Factor & Weiner, eds.

Chelimsky, TC: Pain in Diagnosis Based Neurology Mosby, St Louis, 2005

Chelimsky TC, Armitano E. Complex regional pain syndrome. In: Gilman S, editor. MedLink Neurology. San Diego: MedLink Corporation. Available at www.medlink.com. Accessed September 15, 2005.

Buczek M, Suarez J, Chelimsky TC: Treatment of Autonomic Disorders Requiring Intensive Care Management in Critical Care Neurology and Neurosurgery; Suarez JI Ed, Humana, p167-191, 2004

Chelimsky, TC: Autonomic Neuropathies in Encyclopedia of Neurological Sciences; Aminoff MJ and Daroff RB eds, Academic Press in press, 2003.

Chelimsky, TC: Reflex Sympathetic Dystrophy in Saunders Manual of Medical Practice; RW Evans ed, WB Saunders in press 2003.

Al-Mudallal A, Chelimsky TC: Reflex sympathetic dystrophy in The 5-minute Neurology Consult Little Brown, in press 2002.

Boonyapisit K, Chelimsky TC: Trigeminal Neuralgia in The 5-minute Neurology Consult Little Brown, in press 2002.

Chemali, KR, Chelimsky TC: Autonomic Testing in Neuromuscular Disorders in Clinical Practice; Katirji BK, Preston D, Shapiro B, Kaminski H, Ruff R, eds. Butterworth-Heineman, Boston, 2002.

Chelimsky TC, Mehari, E: Neuropathic Pain in Neuromuscular Disorders in Clinical Practice; Katirji BK, Preston D, Shapiro B, Kaminski H, Ruff R, eds. Butterworth-Heineman, Boston, 2002.

Boswell MV, Rosenberg SK, Chelimsky TC: Neuropathic Pain: Mechanisms and Management in Pain Management – A Practical Guide for Clinicians 6th ed; RS Weiner, ed; CRC Press, Boca Raton, 2002.

Chelimsky TC. Complex regional pain syndrome. In: Gilman S, editor. MedLink Neurology. San Diego: MedLink Corporation. Available at www.medlink.com. Accessed January 15, 2000.

Chelimsky, TC: Pain in Diagnosis Based Neurology Mosby, St Louis, 1998

McQuarrie IG, Chelimsky TC, Bitzer K: Injuries to Peripheral Nerves, in Physiologic Basis of Modern Surgical Care, 2nd edition; Miller TA ed, Quality Medical, St Louis, 1998.

Chelimsky TC. Complex regional pain syndrome. In: Gilman S, editor. MedLink Neurology. San Diego: MedLink Corporation. Available at www.medlink.com. Accessed June 15, 1997.

Low PA, Wilson PR, Sandroni P, Willner CL, Chelimsky TC: Clinical Characteristics of Patients with Reflex Sympathetic Dystrophy/Sympathetically Maintained Pain in the USA. In Reflex Sympathetic Dystrophy, Janig W, Stanton-Hicks M, Eds, 1996. IASP Press, Seattle.

Books - None

Other Articles

Chelimsky, T: The Paradox of Chronic Pain Management. *Caltech Undergraduate Research Journal*. 3: 6-7, 2003.

Abstracts

Chilungu M, McNeeley K, Chelimsky TC. Migrainous features of syncope. Accepted for Presentation at AAN 2008

Mani R; Griffin C, Chelimsky TC. Migrainous Dysautonomia - A Novel Cause of Hypertension in Post-Menopausal Women. Accepted for Presentation at AAN 2008.

Lambrech R, Chelimsky TC, Berti-Mattera L: Serum from Patients with Dysautonomia alters Schwann Cell Growth in Tissue Culture: Clinical Autonomic Research 2007

Treatment Implications of Reproducible Abdominal Complaints during Tilt Table Testing. Chelimsky G, Safder S, Chelimsky TC: JPGN 2007

Chelimsky G, Safder S, McNeeley K, Chelimsky TC: Autonomic Features of Abdominal Migraine in Children. Clinical Autonomic Research 2007

Arbogast S, Hussain Z, McNeeley K; Alshekhlee A; Chelimsky TC Severe Orthostatic Hypotension May be Asymptomatic. Clinical Autonomic Research 2007

Ojha A, McNeeley K; Alshekhlee A; Chelimsky G, Chelimsky TC: Validation of a questionnaire instrument to diagnose postural tachycardia syndrome (POTS). Clinical Autonomic Research 2007

Lambrech R, Sukul D, McNeeley K, Alshekhlee A, Chemali, K, Chelimsky TC: Standardized Tool to Quantitate All Aspects of Small Fibwer Neuropathy. *Neurology* 68: A411(Suppl 1) 2007.

Lambrech R, Chelimsky TC, Alshekhlee A, McNeeley K, Romani A, Berti-Mattera L: Serum from Patients with Dysautonomia Alter Schwann Cell Growth in Tissue Culture. *Neurology* 68: A363 (Suppl 1) 2007.

Guerch M, Chelimsky TC, Ridha F, Alshekhlee A: Postural Tachycardia Syndrome with Asystole on Headup Tilt. *Neurology* 68: A294 (Suppl 1) 2007.

Janus A, Chelimsky TC, Ridha F, Alshekhlee A: Postural Tachycardia Syndrome Fails Cardiac Ablation Therapy. *Neurology* 68: A294 (Suppl 1) 2007.

Chelimsky TC, Janata JJ, Fischer R, Levin J, Whitmore J, Marsh S: First year outcomes from the 4PCP trial for Support and Training of Primary Care Physicians in Chronic Pain Management. *Neurology* 68: A128 (Suppl 1) 2007.

AlSheklee A, Chelimsky TC: Mortality and Cost of Care for Inpatients with Syncope. Presented at the American Autonomic Society Meetings in 11/06.

Chelimsky G, McNeeley KM, Chelimsky TC: Multiple Other Autonomic Disorders Usually Accompany Irritable Bowel Syndrome. Presented at the American Autonomic Society Meetings in 11/06.

McNeeley K, Molnar A, Chelimsky G, Chelimsky TC: Validation of a Questionnaire Tool for Diagnosis of Functional Dysautonomias in Large Populations. S38.004 *Neurology*, 66:A259 (suppl 2) 2006.

Lambrecht R, McNeeley K, Tusing L, Chelimsky TC: Rapid Autonomic Cardiovascular Evaluation Provides Inadequate Dysautonomia Screen. P05.007 *Neurology*, 66:A264 (suppl 2) 2006

Chelimsky TC, Levin J, Janata J, Zyzanski SJ: Primary Care Physician Approach and Satisfaction in Caring for Chronic Pain. P03.193 *Neurology*. 66:A178 (suppl 2), 2006.

Chelimsky G, Chelimsky TC: The utility of autonomic testing in a pediatric population. *Clinical Autonomic Research*, 15:352, 2005.

Molnar AK, McNeeley KJ, Chelimsky G, Chelimsky TC: A novel tool to investigate familiarity in autonomic disorders. *Clinical Autonomic Research*, 15:351, 2005.

Chelimsky T, Rao D, Infeld M, Stern R. A migrainous mechanism for cough-induced syncope and paresis in cystic fibrosis. *Clinical Autonomic Research*, 13:383, 2003.

Goud V, Armitano E, McNeeley K, Chelimsky T: Vasoconstriction and vasodilation in normal human skin. *Clinical Autonomic Research*, 13:381, 2003.

Chelimsky G, Czinn S, Blanchard S, Splawski J, Chelimsky T: Autonomic testing in cyclic vomiting syndrome. *Clinical Autonomic Research*, 13:377, 2003.

Molnar A, McNeeley K, Fouad-Terazi F, DePaul MK, Chelimsky G, Bodner D, Chelimsky TC: A survey to detect functional dysautonomias. *Clinical Autonomic Research*, 13:373, 2003.

Lindenberg JR, Alsheklee A, Chelimsky TC: Postural Orthostatic Tachycardia Syndrome with and without small fiber neuropathy. *Neurology* 60:A46, 2003.

Shi J, Kuniyoshi SM, Chelimsky TC, Maddux BN Hand dystonia after subcortical fronto-parietal infarct. *Mov Disord*. 17 (Suppl 5): S290, 2002.

Chelimsky, G., Wiznitzer, M, Chelimsky, TC. Vomiting and Gastroparesis as the Presentation of Thoracic Myelopathy with Pure Sympathetic Dysfunction. *Journal of Pediatric Gastroenterology & Nutrition*, 2002.

Chelimsky G, Chelimsky TC: Benefit of autonomic testing in pediatric functional abdominal pain. *Journal of Pediatric Gastroenterology and Nutrition*, 2001.

Chelimsky G, Chelimsky TC: Is pediatric autonomic testing valuable? *Clinical Autonomic Research* , 2001

Riley DA, Chelimsky TC: Similar Patterns of Autonomic Nervous System Involvement in Diffuse Lewy Body Disease and Multiple System Atrophy. *Neurology* 56:A422, 2001

Singh, G, Willen S, Janata J, Chelimsky TC: Longitudinal Assessment of Classical Pain Management in Complex Regional Pain Syndrome Type 1. *Neurology* 56:A424, 2001.

Chelimsky G, Czinn S and Chelimsky TC; Mitochondrial Neuro Gastrointestinal Encephalopathy Presenting With Autonomic Dysfunction: A Family Case Report. *Clinical Autonomic Research* 2000: 10:249.

Chelimsky G and Chelimsky TC; Achalasia: A More Diffuse Disorder of the Autonomic Nervous System, or Just an Isolated Esophageal Disease? *Clinical Autonomic Research* 2000: 10:250.

Patel AR, Engstrom JE, Tusing LD, McNeeley K, Chelimsky TC; Lower Body Negative Pressure—An Alternative Test of Cardiovascular Autonomic Function. *Clinical Autonomic Research* 1999: 9:242.

Hsieh C, McNeeley K, and Chelimsky TC; The Standard Clinical Thermoregulatory Sweat Test Induces Maximum Physiologic Sweat Rates. *Clinical Autonomic Research* 1999: 9:238.

Chelimsky G, Tusing L, Chelimsky TC: The Deep Breathing Test Provides Maximal Heart Rate Responses at 6 Breaths/Minute. *Clinical Autonomic Research* 1999: 9:241.

Chelimsky G, Chelimsky TC: Treatment Of Autonomic Dysfunction Resolving Gastrointestinal Symptoms In A Parent And Child. *Clinical Autonomic Research* 1999: 9:238.

McNeeley KM, Tusing L, Chelimsky TC. Skin Blood Flow Response to Temperature and Ischemia. *Clinical Autonomic Research*, 1995 5:341.

Chelimsky, G., Tusing, LD., McNeeley, KJ., Boyle, JT., Chelimsky, TC. Generalized Autonomic Dysfunction in Children with Functional Abdominal Pain. *Journal of Pediatric Gastroenterology & Nutrition*, 1995:21, 336

Chelimsky, G., Chelimsky, TC., and Boyle, JT. The Role of Autonomic Testing in Determining the Inheritance Pattern and Pathogenesis of Familial Achalasia. *Gastroenterology*, 1995:108, A581

Chelimsky TC, Westbrook EL, Neal PJ: Electrophysiological Effect of Corticosteroids in Myotonia *Muscle and Nerve* 17:1122, 1994.

Weinberger LM, Chelimsky TC, Rosenberg CE, Lee JH , Schaffer G. Baroreflex Modulation During Sleep *Neurology* 44:A315 (Suppl. 2), 1994.

Chelimsky, TC, Low, P. Naessens J. et al. Reflex sympathetic dystrophy: clinical findings and autonomic testing in 407 patients. *Neurology*, 1991;41:353.

Opfer-Gehrking T, Chelimsky TC and Low PA. Quantitative sudomotor axon reflex test: comparison of sites and dose response relationship. *Neurology*, 1989;39:319.

Chelimsky TC, and Low PA. The pharmacology of the sudomotor axon reflex. Neurology, 1988;38:224.

Miscellaneous

Website for Division of Autonomic Disorders - 20 pages of information with classified links to other site

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