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## **Education and Training**

- 1975-1979 Michigan State University, East Lansing, Michigan, B.S. (Zoology with High Honor)
- 1981-1985 University of Michigan Medical School, Ann Arbor, Michigan, M.D.
- 1985-1986 Transitional Internship University of Michigan Medical Center and St. Joseph Mercy Hospital, Ann Arbor, Michigan
- 1986-1989 Residency Training, Physical Medicine and Rehabilitation, University of Michigan Medical Center, Ann Arbor, Michigan
- 1988-1989 Chief Resident, Physical Medicine and Rehabilitation, University of Michigan Medical Center, Ann Arbor, Michigan

## **Certification and Licensure**

- 1986 Diplomate, National Board of Medical Examiners (#318097)
- 1987 State of Michigan Medical License
- 1989 U.S. Drug Enforcement Administration (DEA) License
- 1990 Diplomate, American Board of Physical Medicine and Rehabilitation (#3384)
- 1991 Diplomate, American Board of Electrodiagnostic Medicine (#1519)
- 1999 Advanced Cardiac Life Support
- 2000 Pain Management Subspecialty Certification, American Board of Physical Medicine and Rehabilitation and American Board of Anesthesiology
- 2017 Advanced Cardiac Life Support

## **Academic, Administrative, and Clinical Appointments**

### **Academic Appointments**

- 1989-1996 Clinical Instructor, Department of Physical Medicine and Rehabilitation, University of Michigan Medical School, Ann Arbor, Michigan
- 1996-2004 Clinical Assistant Professor, Department of Physical Medicine and Rehabilitation, University of Michigan Medical School, Ann Arbor, Michigan

2004-2008 Clinical Associate Professor, Department of Physical Medicine and Rehabilitation, University of Michigan Medical School, Ann Arbor, Michigan

### **Administrative Appointments**

1991-2003 Medical Director, Outpatient Clinics, Department of Physical Medicine and Rehabilitation, University of Michigan Medical Center, Ann Arbor, Michigan

1991-2003 Medical Director, MedRehab, Department of Physical Medicine and Rehabilitation, University of Michigan Medical Center, Ann Arbor, Michigan

2002-2006 Director, Spine Fellowship, , Department of Physical Medicine and Rehabilitation, University of Michigan Medical Center, Ann Arbor, Michigan

2002-2008 Program Director, Pain Fellowship, Department of Physical Medicine and Rehabilitation, University of Michigan Medical Center, Ann Arbor, Michigan

2004-2008 Service Chief, Spine Program, Department of Physical Medicine and Rehabilitation, University of Michigan Medical Center, Ann Arbor, Michigan

### **Clinical Appointments**

1989-2008 Attending Physician, University of Michigan Medical Center, Ann Arbor, Michigan

1989-2005 Attending Staff Physician, Chelsea Community Hospital, Chelsea, Michigan (University of Michigan-Chelsea Collaborative Rehabilitation Program)

1989-1993 Staff Physiatrist, Rehabilitation Medicine Service, Veterans Administration Medical Center, Ann Arbor, Michigan

1993-1996 Consulting Physician, Rehabilitation Medicine Service, Veterans Administration Medical Center, Ann Arbor, Michigan

1996-1997 Staff Physiatrist, Rehabilitation Medicine Service, Veterans Administration Medical Center, Ann Arbor, Michigan

1997-2008 Consulting Physician, Rehabilitation Medicine Service, Veterans Administration Medical Center, Ann Arbor, Michigan

2008-present Staff Physician, Genesys Regional Medical Center, Grand Blanc, Michigan

## Grants

### *Summary of Major Previous Grants*

01/96-12/96 Co-investigator; "Evaluation of Upper Extremity Musculoskeletal Disorders Among VDT Users and Office Workers." Johns Hopkins Center for VDT and Health Research, \$57,500

## Honors and Awards

- 1994 Department of Physical Medicine and Rehabilitation Service Award
- 1996 Silver Crutch Award (Resident Teaching Award), Department of Physical Medicine and Rehabilitation, University of Michigan Medical Center
- 2006 Top Doctors; Hour Detroit Magazine

## Memberships in Professional Societies

Fellow, American Academy of Physical Medicine and Rehabilitation  
Fellow, American Association of Electrodiagnostic Medicine  
North American Spine Society  
International Spine Intervention Society

## Editorial Positions, Boards, and Peer-Review Service

1996-2008 Manuscript reviewer, Mayo Clinic Proceedings

## Teaching

### National

- 1994 Speaker, Industrial Rehabilitation and Evaluation of Fitness to Work Course, American Academy of Physical Medicine and Rehabilitation 56<sup>th</sup> Annual Scientific Meeting, Anaheim, California, October 11, 1994
- 1995 Speaker, 1995 AAEM Course F: Sports and Occupational Disorders, The Role of Electrodiagnosis, American Association of Electrodiagnostic Medicine 18<sup>th</sup> Annual Continuing Education Courses, Montreal, Quebec, Canada, September 21, 1995
- 1996 Speaker, Industrial Medicine SIG Course: Pathophysiology of Cumulative Trauma Disorders: How Much Can the Musculoskeletal System Stand? American Academy of Physical Medicine and Rehabilitation 58<sup>th</sup> Annual Scientific Meeting, Chicago, Illinois, October 10, 1996

- 1998 Secretary, AAEM Workshops on Chemodenervation, EMG of the Respiratory System, EMG Needle Exam Basics, SEPs: Basics, Autonomic Testing, SEPs: Advanced, Motor Unit Action Potential Quantitation, EMG: Muscle Identification, Proximal Motor Nerve Conduction and Late Responses. Association of Electrodiagnostic Medicine 45th Annual Scientific Meeting, Orlando Florida, October 14-15, 1998
- 1999 Secretary, AAEM Workshops on Pelvic Floor Neurophysiology, Muscle Ultrasound, EMG of the Respiratory System, EMG Needle Exam Basics, Fine Wire Techniques, Motor Unit Action Potential Quantitation, EMG: Muscle Identification, Cranial Nerve Testing, Single Fiber EMG Basics, Near Nerve Conduction Techniques. Association of Electrodiagnostic Medicine 46th Annual Scientific Meeting, Vancouver, British Columbia, Canada, October 5-6, 1999
- 1999 Speaker, 1999 AAEM Course D: Managing the Clinical Consequences of Peripheral Neuropathy. American Association of Electrodiagnostic Medicine 46th Annual Scientific Meeting, Vancouver, British Columbia, Canada, October 6, 1999
- 1999 Speaker, Advanced Concepts in the Evaluation of Focal Neuropathies Course. American Academy of Physical Medicine and Rehabilitation 61<sup>st</sup> Annual Scientific Meeting, Washington D.C., November 12, 1999
- 2000 Secretary, AAEM Workshops on Chemodenervation, Muscle Ultrasound, EMG of the Respiratory System, EMG Needle Exam Basics, Repetitive Nerve Stimulation, Carpal Tunnel Syndrome Techniques, Needle Examination of the Foot, Motor Unit Action Potential Quantitation, EMG: Muscle Identification and Proximal Motor Nerve Conduction and Late Responses. American Association of Electrodiagnostic Medicine 47th Annual Scientific Meeting, Philadelphia, Pennsylvania, September 13-14, 2000
- 2000 Speaker, Managing the Clinical Consequences of Peripheral Neuropathy Course. American Academy of Physical Medicine and Rehabilitation 62<sup>nd</sup> Annual Scientific Meeting, San Francisco, California, November 4, 2000
- 2000 Speaker, A Comprehensive Approach to Foot and Ankle Problems Course. American Academy of Physical Medicine and Rehabilitation 62<sup>nd</sup> Annual Scientific Meeting, San Francisco, California, November 5, 2000
- 2001 Instructor, AAEM Workshop on Needle Examination of the Foot. American Association of Electrodiagnostic Medicine 48<sup>th</sup> Annual Scientific Meeting, Albuquerque New Mexico, October 3, 2001
- 2001 Secretary, AAEM Course E: Controversies and Conventions in Lumbar Radiculopathy. American Association of Electrodiagnostic Medicine 48<sup>th</sup> Annual Scientific Meeting, Albuquerque New Mexico, October 4, 2001

- 2002 Instructor, AAEM Workshop on Needle Examination of the Foot. American Association of Electrodiagnostic Medicine 49th Annual Scientific Meeting, Toronto, Ontario, Canada, October 9, 2002
- 2002 Secretary, AAEM Course D: Electrodiagnosis in Industrial Medicine. American Association of Electrodiagnostic Medicine 49th Annual Scientific Meeting, Toronto, Ontario, Canada, October 10, 2002
- 2003 Instructor, AAEM Workshop on Needle Examination of the Foot. American Association of Electrodiagnostic Medicine 50th Annual Scientific Meeting, 27<sup>th</sup> International Congress of Clinical Neurophysiology, San Francisco, California, September 16, 2003
- 2003 Secretary, AAEM Course G: Transcranial Magnetic Stimulation. American Association of Electrodiagnostic Medicine 50th Annual Scientific Meeting, 27<sup>th</sup> International Congress of Clinical Neurophysiology San Francisco, California, September 17, 2003
- 2003 Secretary, Dinner Seminar: Research Uses of MEG. American Association of Electrodiagnostic Medicine 50th Annual Scientific Meeting, 27<sup>th</sup> International Congress of Clinical Neurophysiology San Francisco, California, September 17, 2003
- 2003 Instructor, AAEM Experts Roundtable: Neuropathies of the Foot. American Association of Electrodiagnostic Medicine 50th Annual Scientific Meeting, 27<sup>th</sup> International Congress of Clinical Neurophysiology, San Francisco, California, September 18th, 2003
- 2004 Instructor, AAEM Workshop on Needle Examination of the Foot. American Association of Electrodiagnostic Medicine 51st Annual Scientific Meeting, Savannah, GA, November 4, 2004
- 2004 Instructor, AAEM Experts Roundtable: Painful Shoulder. American Association of Electrodiagnostic Medicine 51st Annual Scientific Meeting, Savannah, GA, November 5, 2004
- 2005 Instructor, AAEM Workshop on Needle Examination of the Foot. American Association of Electrodiagnostic Medicine 52nd Annual Scientific Meeting, Monterey, CA, September 21, 2005
- 2005 Instructor, AAEM Experts Roundtable: Painful Shoulder. American Association of Electrodiagnostic Medicine 52nd Annual Scientific Meeting, Monterey, CA, September 24, 2005
- 2006 Instructor, AAEM Workshop on Needle Examination of the Foot. American Association of Electrodiagnostic Medicine 53rd Annual Scientific Meeting, Washington D.C. September 11, 2006

## Regional

- 1991 Speaker, Medical Aspects of Cumulative Trauma Disorders Conference, University of Michigan/Ford Motor Company, Dearborn, Michigan, March 4, 1991
- 1991 Speaker, Fitness to Work: Occupational Medicine and Legal Issues. Towsley Center for Continuing Medical Education, University of Michigan Medical School, Ann Arbor, Michigan, November 20, 1991
- 1993 Speaker, 21<sup>st</sup> Annual Spring Update: Advances in Internal Medicine, Towsley Center for Continuing Medical Education, University of Michigan Medical School, Ann Arbor, Michigan, April 29, 1993
- 1995 Speaker, Mid Winter University of Michigan Family Practice Update Course, Boyne Highlands, Michigan, January 31, 1995
- 1997 Speaker, 21<sup>st</sup> Annual Family Practice Spring Review Course, Towsley Center for Continuing Medical Education University of Michigan Medical School, Ann Arbor, Michigan, March 11, 1997
- 1998 Speaker, 26<sup>th</sup> Annual Spring Update in Internal Medicine, Towsley Center for Continuing Medical Education, University of Michigan Medical School, Ann Arbor, Michigan, May 14, 1998
- 1999 Speaker, 23<sup>rd</sup> Annual Family Practice Spring Review Course, Towsley Center for Continuing Medical Education, University of Michigan Medical School, Ann Arbor, Michigan, March 10, 1999
- 1999 Speaker, Spine Care: Exploring Conservative and Complementary Approaches. University of Michigan Spine Center, Ann Arbor, Michigan, March 10, 1999
- 1999 Speaker, Back Pain and Disability: Practical Solutions for Primary Care, Towsley Center for Continuing Medical Education, University of Michigan Medical School, Ann Arbor, Michigan, May 14, 1999
- 2000 Speaker, Low Back Pain in Primary Care, Department of Medical Education, University of Michigan Medical School, Ann Arbor, Michigan, June 2, 2000
- 2000 Speaker, Sports Medicine Conference, American Academy of Physical Medicine and Rehabilitation Resident Physician Council Midwest Regional Conference, University of Michigan Medical Center, Ann Arbor, Michigan, August 26, 2000
- 2000 Speaker, Sports Medicine for the Primary Care Physician, Towsley Center for Continuing Medical Education, University of Michigan Medical School, Ann Arbor, Michigan, October 5, 2000

University of Michigan Medical School

- 1986 Medical Student Lecture Series, Department of Physical Medicine and Rehabilitation (required M3 rotation)
- 1988-1992 Clinical Skills Instructor, Introduction to Clinical Sciences (supervision of M2 History and Physicals)
- 1988-1991 Preceptor, laboratory session on general physical examination for M2 students
- 1989-2008 Direct supervision of Physical Medicine and Rehabilitation residents in patient care, Department of Physical Medicine and Rehabilitation
- 1989-2008 Direct supervision and training of Physical Medicine and Rehabilitation, Neurology residents and Neuromuscular fellows in electrodiagnostic medicine, Department of Physical Medicine and Rehabilitation EMG Laboratory
- 1989-2008 Resident Lecture Series; lectures to Physical Medicine and Rehabilitation residents and medical students in core curriculum
- 1989-2008 Neuromuscular Conference; lectures to attending staff physicians, Physical Medicine and Rehabilitation and Neurology residents
- 1989-2008 Grand Rounds, lectures to Physical Medicine and Rehabilitation attending staff, residents and medical students, Department of Physical Medicine and Rehabilitation
- 1989-2008 Supervision of medical student elective clerkship in Physical Medicine and Rehabilitation
- 1989-2008 Gross anatomy dissections of the back and extremities for PM&R residents, medical students and physical therapy students
- 1990-2008 Supervision and training of Family Practice residents in musculoskeletal medicine
- 1991-1999 Supervision and training of Occupational Medicine residents in musculoskeletal medicine
- 1991-2001 Lecturer, PM&R 510, Methods of Rehabilitation Graduate Course
- 1992-2008 Clinical Counselor, fourth-year medical students
- 1994-1996 Lecturer, Multidisciplinary Conference, Component II of Medical School Curriculum

- 1994-1996     Lecturer, Musculoskeletal Sequence, Component II of Medical School Curriculum
- 1996-2008     Evening “gym rounds”, hands on training in musculoskeletal diagnosis for Physical Medicine and Rehabilitation residents, medical students and physical therapy students
- 1997-2008     Resident Lecture series, Department of Family Medicine
- 1998-2002     Preceptor, Introduction to the Patient, first-year medical students
- 1999-2008     Spine Conference; lectures to attending physicians, Spine fellows, Physical Medicine and Rehabilitation residents, medical students.
- 2003-2008     Pain Conference: lectures to Pain fellows.
- 2003            Internal Medicine Morning Report; lectures to Internal Medicine House Officers
- 2004            Rheumatology Conference, Department of Internal Medicine

## **Committee, Organizational, and Volunteer Service**

### **University of Michigan**

- 1989-1994     Medical Director, Chronic Pain Management Program, Department of Physical Medicine and Rehabilitation
- 1990-1991     Medical Director, Adult TBI Day Treatment Program, Department of Physical Medicine and Rehabilitation
- 1991-2003     Medical Director, MedRehab, Department of Physical Medicine and Rehabilitation
- 1991-2003     Medical Director, Outpatient Clinics, Medical Director Department of Physical Medicine and Rehabilitation
- 1991-1994     Medical Service Plan Management Committee, Department of Physical Medicine and Rehabilitation
- 1992-1994     Facilitation of Outpatient Care, Quality Improvement Team, University of Michigan Medical Center
- 1992-1994     Curriculum Revision Committee, Musculoskeletal Sequence, University of Michigan Medical School
- 1992-2008     Medical School Executive Faculty, University of Michigan Medical School



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| 1993-1994 | Physicians Operation Council, Department of Physical Medicine and Rehabilitation                 |
| 1994-1995 | East Medical Center Planning Council, University of Michigan Medical Center                      |
| 1995-1996 | Occupational Health Search Committee, University of Michigan Medical Center                      |
| 1995-2008 | Financial Operations Council, Department of Physical Medicine and Rehabilitation                 |
| 1995-1996 | Chair, Clinic Operations Task Force, Department of Physical Medicine and Rehabilitation          |
| 1996-1998 | Designated Department Chair's alternate to Medical School and Hospital Committees                |
| 1996-2002 | Chair, Faculty Salary Structure Committee, Department of Physical Medicine and Rehabilitation    |
| 1997-2002 | Ambulatory Care Operations and Planning Council, University of Michigan Medical Center           |
| 1999-2008 | Faculty Group Practice Finance Committee, University of Michigan Health System                   |
| 2000      | Internal Review Committee, Department of Physical Medicine and Rehabilitation                    |
| 2002-2008 | Director, Pain Management Fellowship Program, Department of Physical Medicine and Rehabilitation |
| 2004-2008 | Service Chief, Spine Program, Department of Physical Medicine and Rehabilitation                 |
| 2004      | Strategic Planning Committee, Department of Physical Medicine and Rehabilitation                 |
| 2005-2008 | Promotions and Tenure Committee, Department of Physical Medicine and Rehabilitation              |
| 2005      | Chronic Pain Guideline Committee, University of Michigan Health System                           |

## **National**

### **American Association of Electrodiagnostic Medicine**

|           |                                    |
|-----------|------------------------------------|
| 1994-1997 | Training Program Committee         |
| 1997-2000 | Workshop Committee                 |
| 2000-2003 | Course Committee                   |
| 2006-2008 | Musculoskeletal Advisory Committee |

### **American Board of Electrodiagnostic Medicine**

|           |                       |
|-----------|-----------------------|
| 1996-1997 | Oral Examiner         |
| 2001-2002 | Oral Examiner         |
| 2004-2008 | Examination Committee |

### **American Academy of Physical Medicine and Rehabilitation**

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| 1998-2008 | Bylaws Committee |
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## **Consulting Positions**

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| 1989-1994 | Michigan Peer Review Organization |
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## **Visiting Professorships, Seminars, and Extramural Invited Presentations**

### **Lectures and Courses:**

1. Wardner JM, VanMeter A, Schultz JS, Chiodo A: "Acute Rehabilitation of Pediatric Multifactorial Encephalopathy". 50<sup>th</sup> Annual Assembly of the American Academy of Physical Medicine and Rehabilitation, Seattle, Washington, November 3, 1988
2. Schultz JS, Davidoff G, Wardner J, et.al: "Incidence and Risk Factors for Rehospitalization for Secondary Complications During the First Year Following Initial Rehabilitation for Spinal Cord Injury". Annual Meeting of the American Spinal Injury Association, Las Vegas, Nevada, April 5, 1989
3. Schultz JS: "Sports Related Long Thoracic Mononeuropathy". Eighth Annual James Rae Scientific Day and Lecture, Department of Physical Medicine and Rehabilitation, University of Michigan Medical Center, Ann Arbor, Michigan, September 29, 1989
4. Finestone H, Lampman R, Islam S, Westbury L, Schultz J, Davidoff G: "Arm Ergometry Testing in the Dysvascular Amputee-Resting and Dynamic Electrocardiographic Findings". 51<sup>st</sup> Annual Assembly of the American Academy of Physical Medicine and Rehabilitation, San Antonio, Texas, November 6, 1989
5. Schultz JS, Leonard JA: "Sports Related Long Thoracic Nerve Injury". 51<sup>st</sup> Annual Assembly of the American Academy of Physical Medicine and Rehabilitation, San Antonio, Texas, November 7, 1989
6. Wardner JM, Leonard JA, Schultz JS, Jackson MD: "Concurrent Suprascapular and Axillary Mononeuropathies". 51<sup>st</sup> Annual Assembly of the American Academy of Physical Medicine and Rehabilitation, San Antonio, Texas, November 7, 1989
7. Davidoff G, Finestone J, Lampman R, Westbury L, Schultz JS: "Arm Ergometry Exercise Testing the Dysvascular Amputee: Role of the EKG, HR, and Rating of Perceived Exertion in Patient Evaluation and Exercise Prescription". 52<sup>nd</sup> Annual Assembly of the

- American Academy of Physical Medicine and Rehabilitation, Phoenix, Arizona, October 22, 1990
8. Schultz JS: "Nerve Entrapments of the Elbow and Forearm". Medical Aspects of Cumulative Trauma Disorder Conference, University of Michigan/Ford Motor Company, Dearborn, Michigan, March 4, 1991
  9. Schultz JS: "Lateral and Medical Epicondylitis". Medical Aspects of Cumulative Trauma Disorder Conference, University of Michigan/Ford Motor Company, Dearborn, Michigan, March 4, 1991
  10. Schultz JS: "Anatomy and Radiography of the Cervical Spine". Medical Aspects of Cumulative Trauma Disorder Conference, University of Michigan/Ford Motor Company, Dearborn, Michigan, March 5, 1991
  11. Schultz JS: "Cervical Pain and Dysfunction". Medical Aspects of Cumulative Trauma Disorder Conference, University of Michigan/Ford Motor Company, Dearborn, Michigan, March 5, 1991
  12. Leonard JA, Schultz JS: "Radiculopathy: A Quality Assurance Review". Annual Scientific Meeting of the American Association of Electrodiagnostic Medicine, Vancouver, British Columbia, Canada, September 29, 1991
  13. Schultz JS: "Examination of the Extremities". Fitness to Work: Occupational Medicine and Legal Issues. Towsley Center for Continuing Medical Education, University of Michigan Medical School, Ann Arbor, Michigan, November 20, 1991
  14. Schultz JS: "Sports Related Injuries". 21<sup>st</sup> Annual Spring Update: Advances in Internal Medicine, Towsley Center for Continuing Medical Education, University of Michigan Medical School, Ann Arbor, Michigan, April 29, 1993
  15. Schultz, JS: "Injuries in Performing Artists". Health Night Out, University of Michigan Medical School, Ann Arbor, Michigan, April 12, 1994
  16. Schultz JS: "Writing a Return to Work Prescription". Industrial Rehabilitation and Evaluation of Fitness to Work Course, 56<sup>th</sup> Annual Assembly of the American Academy of Physical Medicine and Rehabilitation, Anaheim, California, October 11, 1994
  17. Schultz JS: "Approach to Mechanical Low Back Pain". Mid Winter University of Michigan Family Practice Update Course, Boyne Highlands, Michigan, January 31, 1995
  18. Schultz JS: "Appropriate Use of EMG/NCS". Mid Winter University of Michigan Family Practice Update Course, Boyne Highlands, Michigan, January 31, 1995
  19. Schultz JS: "Common Nerve Entrapment Syndromes". Mid Winter University of Michigan Family Practice Update Course, Boyne Highlands, Michigan, January 31, 1995
  20. Ramos E, Schultz J, Im D: "Risk Factors in Dance Related Injuries: A Prospective Study". Aspen Symposium on Medical Problems of Musicians and Dancers, Aspen, Colorado, July 21, 1995
  21. Schultz JS: "Electrodiagnosis in Lower Extremity Sports Injuries". 1995 AAEM Course F: Sports and Occupational Disorders, The Role of Electrodiagnosis. American Association of Electrodiagnostic Medicine 18<sup>th</sup> Annual Continuing Education Courses, Montreal, Quebec, Canada, September 21, 1995
  22. Schultz JS: "Pathophysiology of Tendon Overuse Injury". Industrial Rehabilitation SIG Course, Pathophysiology of Cumulative Trauma Disorders: How Much Can the Musculoskeletal System Stand? 58<sup>th</sup> Annual Assembly of the American Academy of Physical Medicine and Rehabilitation, Chicago, Illinois, October 10, 1996

23. Richardson JK, Chung T, Schultz JS, Hurvitz EH: "Familial Predisposition to Lumbar Disc Herniation". Annual Scientific Meeting of the Physiatrix Association of Spine, Sports and Occupational Rehabilitation, Vancouver, British Columbia, Canada, October 23, 1996
24. Schultz, JS: "Cervical Pain Syndromes: What to do With a Pain in the Neck". 21<sup>st</sup> Annual Family Practice Spring Review Course, Towsley Center for Continuing Medical Education, University of Michigan Medical School, Ann Arbor, Michigan, March 11, 1997
25. Roberts-Atwater B, Schultz JS, Perna R, Riley B, Collins J, Koostra T: "From Fox-Trot to Rumba: A Survey of Ballroom Dance Injuries". Aspen Symposium on Medical Problems of Musicians and Dancers, Aspen, Colorado, June 21, 1997
26. Schultz, JS: "Common Musculoskeletal Injuries of the Lower Extremities". Resident Education Conference, Department of Family Medicine, University of Michigan Medical Center, Ann Arbor, Michigan, March 11, 1998
27. Schultz, JS: "Foot Problems". 26<sup>th</sup> Annual Spring Update in Internal Medicine Course, Towsley Center for Continuing Medical Education, University of Michigan Medical School, Ann Arbor, Michigan, May 14, 1998
28. Schultz, JS: "Sports-Related Nerve Injuries". 23<sup>rd</sup> Annual Family Practice Spring Review Course, Towsley Center for Continuing Medical Education, University of Michigan Medical School, Ann Arbor, Michigan, March 11, 1999
29. Schultz, JS: "Trigger Point Injections in Myofascial Pain". Spine Care: Exploring Conservative and Complementary Approaches. University of Michigan Spine Center, Ann Arbor, Michigan, March 10, 1999
30. Schultz, JS: "Return to Work Prescriptions". Back Pain and Disability: Practical Solutions for Primary Care, Towsley Center for Continuing Medical Education, University of Michigan Medical School, Ann Arbor, Michigan, May 14, 1999
31. Schultz JS: "Non-Neuropathic Pain Associated With Peripheral Neuropathy". AAEM Course D: Managing the Clinical Consequences of Peripheral Neuropathy. American Association of Electrodiagnostic Medicine 22<sup>nd</sup> Annual Continuing Education Courses, Vancouver, British Columbia, Canada, October 6, 1999
32. Schultz JS: "Focal Nerve Injuries of the Shoulder Girdle". Advanced Concepts in the Evaluation of Focal Neuropathies Course. American Academy of Physical Medicine and Rehabilitation 61<sup>st</sup> Annual Scientific Meeting, Washington D.C., November 12, 1999
33. Schultz JS: "Disability Management". Low Back Pain in Primary Care Continuing Medical Education, University of Michigan Medical School, Crowne Plaza, Ann Arbor, Michigan, June 2, 2000
34. Schultz JS: "Foot and Ankle Pain in the Athlete". American Academy of Physical Medicine and Rehabilitation Resident Physician Council Midwest Regional Conference, University of Michigan Medical Center, Ann Arbor, Michigan, August 26, 2000
35. Schultz JS: "Principles of Musculoskeletal Rehabilitation". Sports Medicine for the Primary Care Physician, Towsley Center for Continuing Medical Education, University of Michigan Medical School, Ann Arbor, Michigan, October 5, 2000
36. Schultz JS: "Non-Neuropathic Pain Associated with Peripheral Neuropathy". Managing the Clinical Consequences of Peripheral Neuropathy Course. American Association of Physical Medicine and Rehabilitation 62<sup>nd</sup> Annual Scientific Meeting, San Francisco, California, November 4, 2000

37. Schultz JS: "Focal Neuropathies of the Foot and Ankle". A Comprehensive Approach to Foot and Ankle Problems Course. American Academy of Physical Medicine and Rehabilitation 62<sup>nd</sup> Annual Scientific Meeting, San Francisco, California, November 5, 2000
38. Schultz JS: "Plantar Fasciitis and Achilles Tendon Disorders". A Comprehensive Approach to Foot and Ankle Problems Course. American Academy of Physical Medicine and Rehabilitation 62<sup>nd</sup> Annual Scientific Meeting, San Francisco, California, November 5, 2000
39. Schultz JS: "Focal Neuropathies of the Shoulder Girdle". Advanced Concepts in the Evaluation of Focal Upper Extremity Compression Neuropathies. American Academy of Physical Medicine and Rehabilitation 63<sup>rd</sup> Annual Scientific Meeting, Orlando Florida, November 23, 2002
40. Schultz JS: "Electrodiagnosis of Ulnar Neuropathy at the Wrist". Advanced Concepts in the Evaluation of Focal Upper Extremity Compression Neuropathies. American Academy of Physical Medicine and Rehabilitation 63<sup>rd</sup> Annual Scientific Meeting, Orlando Florida, November 23, 2002

## Bibliography

### *Peer-Reviewed Journals and Publications*

1. Davidoff G, **Schultz J**, Wardner J, Andrews K, Leib T, Ward M, Hayes C, Karunus R, Maynard F: Incidence of risk factors for re-hospitalization during the first year following rehabilitation for spinal cord injury. *Arch Phys Med Rehabil* 71: 121-124, 1990.
2. Finestone H, Lampman R, Davidoff G, Westbury L, Islam S, **Schultz J**: Arm ergometry exercise testing in patients with dysvascular amputations. *Arch Phys Med Rehabil* 72:15-19, 1991.
3. **Schultz, J**, Leonard J: Long thoracic neuropathy from athletic activity. *Arch Phys Med Rehabil* 73:87-90, 1992.
4. Richardson J, Chung T, **Schultz JS**, Hurvitz E: A familial predisposition toward lumbar disc injury. *Spine* 22:1487-1493, 1997.
5. Salerno D, Franzblau A, Werner R, Chung K, **Schultz JS**, Becker M, Armstrong T: Reliability of physical examination of the upper extremity among keyboard operators. *Am J Industrial Med* 37(4):423-430, 2000.

### *Non Peer Reviewed*

1. **Schultz, J**: Electrodiagnosis in Lower Extremity Sports Injuries. 1995 AAEM Course F: Sports and Occupational Disorders, The Role of Electrodiagnosis. American Association of Electrodiagnostic Medicine 18<sup>th</sup> Annual Continuing Education Courses, Montreal, Quebec, Canada, September 21, 1995.
2. **Schultz, JS**: Non-neuropathic pain associated with peripheral neuropathy. 1999 AAEM Course D: Managing the Clinical Consequences of Peripheral Neuropathy. American Association of Electrodiagnostic Medicine 22<sup>nd</sup> Annual Continuing Education Courses, Vancouver, British Columbia, Canada, October 6, 1999.

### *Book Chapters*

1. **Schultz JS:** Clinical Evaluation of Shoulder Problems. *Phys Med Rehabil Clin N Am* 15:2, Saunders, Philadelphia, 2004.
2. **Schultz JS:** Acute Radiating Low Back Pain. In Haig AJ, Colwell MO (eds): *Back Pain*. Philadelphia, PA: American College of Physicians, 2005.
3. **Schultz JS:** Other Upper Extremity Neuropathies. In Bromberg M, Smith A (eds): *Handbook of Peripheral Neuropathy*. Taylor Francis, Salisbury, UK, 2005.

### *Other Media*

1. **Schultz JS,** Harmon R, Simpson D, et. al: American Association of Eletrodiagnostic Medicine 1996 Training Program Self-Assessment Examination, Videotape Portion. Copyright by the American Association of Electrodiagnostic Medicine, Rochester, Minnesota, 1996.
2. **Schultz JS,** Harmon R, Simpson D, et. al: American Association of Eletrodiagnostic Medicine 1997 Training Program Self-Assessment Examination, Videotape Portion. Copyright by the American Association of Electrodiagnostic Medicine, Rochester, Minnesota, 1997.
3. **Schultz JS:** A Self Care Guide for Musicians. Published by MCare, University of Michigan Medical Center, 1997.
4. **Schultz, JS:** EMG Case-of-the-Month. Online Continuing Medical Education, American Academy of Physical Medicine and Rehabilitation [www.aapmr.org](http://www.aapmr.org), January 1999.
5. Meyer K, **Schultz JS:** EMG Case-of-the-Month. Online Continuing Medical Education, American Academy of Physical Medicine and Rehabilitation [www.aapmr.org](http://www.aapmr.org), May, 2001.

### *Abstracts*

1. Wardner J, VanMeter A, **Schultz J,** Chiodo A: Acute rehabilitation of pediatric multifactorial encephalopathy. *Arch Phys Med Rehabil* 69(9):743, 1988.
2. **Schultz J,** Leonard J: Sports related long thoracic nerve injury. *Arch Phys Med Rehabil* 70:A-88, 1989.
3. Davidoff G, **Schultz J,** Lieb T, Andrews K, Wardner J, Hayes C, Ward M, Karunus R, Maynard F: Incidence and risk factors for re-hospitalization for secondary complications during the first year following initial rehabilitation for spinal cord injury. *ASIA Abstracts Digest* 92, 1989.
4. Wardner J, Leonard J, **Schultz J,** Jackson M: Concurrent suprascapular and axillary mononeuropathies. *Arch Phys Med Rehabil* 70:A-60, 1989.
5. Finestone J, Lampman R, Islam S, Westbury L, **Schultz J,** Davidoff G: Arm ergometry testing in the dysvascular amputee - resting and dynamic electrocardiographic findings. *Arch Phys Med Rehabil* 70:A-60, 1989.
6. Davidoff G, Finestone H, Lampman R, Westbury L, **Schultz J:** Arm egometry exercise testing in the dysvascular amputee: Role of the EKG, HR and Rating of Perceived Exertion in patient evaluation and exercise prescription. *Arch Phys Med Rehabil* 71:760, 1990.
7. Leonard J, **Schultz J:** Radiculopathy: a quality assurance review. *Muscle Nerve* 14: 890, 1991.

8. Ramos E, **Schultz J**, Im D: Risk factors in dance related injuries: a prospective study. Aspen Symposium on Medical Problems of Musicians and Dancers, Aspen, Colorado, July 21, 1995.
9. Roberts-Atwater B, **Schultz, JS**, Perna R, Riley B, Collins J, Koostra T: From Fox-Trot to Rumba: A Survey of Ballroom Dance Injuries. Aspen Symposium on Medical Problems of Musicians and Dancers, Aspen Colorado, June 21, 1997.