

Curriculum Vitae

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Lynnae Schwartz, M.D., M.Ac.

Office: Medical Tower Building
255 South 17th Street Suite 1408
Philadelphia, PA 19103

Contact:

Text: (215) 694-2049

Google Voice: (646) 397-0267

email: info@schwartzmedacupuncture.com

Current position: Private practice of medical acupuncture, Philadelphia, PA

Citizenship: USA citizen

Education:

Nursing

1968 Diploma (R.N.) Professional Nursing Wesley Memorial Hospital School of Nursing,
Chicago, IL

Premed and Medicine

1965-1968 (Undergraduate) Northwestern University Extension Division, Chicago, IL

1968-1971 (Undergraduate) University of Chicago Extension Division, Chicago, IL

1971-1973 (Premed courses) University of Illinois at Chicago Circle Campus, Chicago, IL

1973-1975 Rush Medical College, Chicago, IL

1977 M.D. Tufts University School of Medicine, Boston, MA

Acupuncture

1993 Diploma, Medical Acupuncture New England School of Acupuncture, Newton, MA

1996 M.Ac. New England School of Acupuncture, Newton, MA

2014-2015 International Structural Acupuncture Course for Physicians, Harvard Medical School
Department of Continuing Education, Cambridge, MA. [Completed: June 2015]

2015-2016 Advanced training in Structural Acupuncture for Physicians [Completed: April 2016]

2016-2017 Classical Japanese Acupuncture, Tri-State College of Acupuncture, New York City, NY
[Completed September 2017]

Postgraduate Training and Fellowship Appointments:

- 1977-1980 Intern, Junior and Senior Assistant Resident, Children's Service, Massachusetts General Hospital, Boston, MA
- 1980-1982 Junior and Senior Assistant Resident, Department of Anesthesia, New England Medical Center, Boston, MA
- 1982-1983 Fellow in Anesthesia, Department of Anesthesia, Children's Hospital, Boston, MA
- 2000-2003 Research Fellow, Department of Anesthesia and Surgical Services, Clinical Center, National Institutes of Health Bethesda, MD
- 2003-2007 Senior Research Fellow, Laboratory of Molecular Medicine and Neuroscience, National Institute of Neurological Disorders and Stroke, National Institutes of Health, Bethesda, MD

Faculty Appointments:

- 1977 – 1983 Instructor in Pediatrics, Harvard Medical School
- 1983 - 1984 Assistant Professor of Anesthesia and Pediatrics, University of Massachusetts School of Medicine
- 1987 - 1996 Assistant Professor of Pediatrics and Anesthesia, Boston University School of Medicine
- 1996 – 2000 Assistant Professor of Pediatrics and Anesthesia, George Washington University School of Medicine
- 1997 – 2000 Assistant Professor of Pediatrics, Uniformed Services University of the Health Sciences, F. Edward Herbert School of Medicine
- 2008 - 2012 Assistant Professor of Anesthesiology and Critical Care Medicine, University of Pennsylvania School of Medicine

Major Hospital and Administrative Appointments:

- 1980 - 1983 Staff Pediatrician, Pediatric Group Practice and Children's Service, Massachusetts General Hospital, Boston, MA
- 1983 - 1984 Staff Anesthesiologist, Department of Anesthesia; Attending Pediatrician, Pediatric Intensive Care Unit, Univ. of Massachusetts Medical Center, Worcester, MA
- 1984 - 1996 Medical Director, Massachusetts Hospital School, Canton, MA
- 1985 - 1996 Staff Anesthesiologist, Boston City Hospital
- 1987 - 1996 Attending Physician, Associate Director, Interim Director, Pediatric Intensive Care Unit, Boston City Hospital (Boston Medical Center), Boston, MA
- 1996 – 2000 Attending Physician, Pediatric Intensive Care Unit, Children's National Medical Center, Washington, D.C.
- 1996 - 2000 Consulting Physician, Critical Care Medicine, National Institutes of Health, Bethesda, MD
- 1996 - 2000 Consulting Physician, Critical Care Medicine, Walter Reed Army Medical Center, Washington, D.C.
- 2000 - 2007 Staff Physician, Center for Musculoskeletal Health, Department Orthopedic Surgery, Children's National Medical Center, Washington, D.C.
- 2008 -2011 Staff Physician, Pain Service, Section of General Anesthesia, Department of Anesthesia and Critical Care Medicine, The Children's Hospital of Philadelphia, Philadelphia, PA

Other Appointments:

1968 – 1969 Head Nurse Pediatric Clinic, Mile Square Health Center, Chicago, IL
1970 – 1971 Charge Nurse Pediatric Emergency Room, Wyler Children's Hospital,
University of Chicago Hospitals, Chicago, Illinois
1974 – 1975 Staff Nurse Medical and Surgical Intensive Care Units,
Evanston Hospital, Evanston, Illinois
1968 – 1973 Nurse Consultant, multiple urban community organizations providing
neighborhood-based health care through volunteer clinics, Chicago

1993 – 1996 Lecturer, New England School of Acupuncture, Watertown, MA
1997 – 2000 Lecturer, Maryland Institute of Traditional Chinese Medicine, Bethesda, MA
2012 Research associate (NTP-volunteer) Division of Allergy Immunology, Department
of Pediatrics, Children's Hospital of Philadelphia

Specialty Certification:

1978 National Board of Medical Examiners
1983 American Board of Pediatrics
1988 American Board of Anesthesiology

Licensure:

Previous: [inactive due to relocation]

Illinois (Nursing)

Massachusetts (Medicine)

District of Columbia (Medicine and Acupuncture)

Current: (active and in good standing)

Pennsylvania (Medicine and Acupuncture)

Professional & Scientific Societies:

American Academy of Medical Acupuncture (1995-current)

Massachusetts Medical Society (1984 - current)

Pennsylvania Medical Society (2010 - current)

Editorial Positions and guest reviewer:

1999 – present Editorial Board, Medical Acupuncture

2014 – Guest Reviewer – AIDS Care

2015 - Guest Reviewer - Pediatrics

Bibliography:

Research Publications and Reviews

1. Schwartz, L., Rockoff, M.A., Koka, B.V.: Masseter spasm with anesthesia: incidence and implications. Anesthesiology 61(6): 772-775, 1984.
2. Quezado, Z.M.N., Veihmeyer, J., Schwartz, L., Nwokoro, N.A., Porter, F.D.: Anesthesia and airway management of pediatric patients with Smith-Lemli-Optiz Syndrome. Anesthesiology 97(4): 1015-1019, 2002.
3. Lawrence, D.P.M., Durham, L., Schwartz, L., Seth, P., Maric, D., Major, E.O.: Human immunodeficiency virus type 1 infection of human brain-derived progenitor cells. J Virology 78(14): 7319-7328, 2004.
4. Schwartz, L., Civitello, L., Dunn-Pirio, A., Ryschkewitsch, S., Berry, E., Cavert, W., Kinzel, N., Lawrence, D.M.P., Hazra, R., Major, E.O.: Evidence of HIV-1 infection of neural progenitor cells in archival human pediatric brain tissue. Journal of Neurovirology 13(3): 274-283, 2007.
5. Douglas, S.D., Lai, J-P., Tuluc, F., Schwartz, L., Kilpatrick, L.E. Neurokinin-1 receptor expression and function in human macrophages and brain. Annals of the New York Academy of Sciences 1144: 90-96, 2008.
6. Chernova, I., Lai, J-P., Li, H., Schwartz, L., Tuluc, F., Korchak, H.M., Douglas, S.D., Kilpatrick, L.E. Substance P (SP) enhances CCL5-induced chemotaxis and intracellular signaling in human monocytes, which express the truncated neurokinin-1 receptor (NK1R). J Leukocyte Biology 85:154-164, 2009.
7. Meshki, J., Douglas, S.D., Lai, J-P., Schwartz, L., Kilpatrick, L.E., Tuluc, F. Neurokinin 1 receptor mediates membrane blebbing in HEK292 cells through a Rho/ROCK-associated Coiled-coil kinase-dependent mechanism. J Biological Chemistry 284(14): 9280-9289, 2009.
8. Serchuck, L., Williams, P.L., Nachman, S., Gadow, K.D., Chernoff, M., Schwartz, L for the IMPAACT 1055 Team. Prevalence of pain and association with psychiatric symptom severity in perinatally HIV-infected children compared to controls living in HIV-affected households. AIDS Care 22(2): 640-648, 2010.
9. Monaco-Shawver, L., Schwartz, L., Tuluc, F., Guo, C-J., Lai, J-P., Gunnam, S.M., Kilpatrick, L.E., Banerjee, P.P., Douglas, S.D., Orange, J.S. Substance P inhibits natural killer cell cytotoxicity through the neurokinin-1 receptor and blocks activation-induced ERK phosphorylation. J Leukocyte Biology 89(1): 113-125, 2011.
10. Schwartz, L., Xiao, R., Brown, ER., Sommers, E. Auricular acupressure augmentation of standard medical management of the neonatal narcotic abstinence syndrome. Medical Acupuncture 23(3): 175-186, 2011.

11. Schwartz, L., Quezado, Z. The beneficial effect of topical glycopyrrolate in a patient with neuropathic lower extremity pain (Letter to the Editor). *Pain Medicine* 13: 484-485, 2012.
12. Schwartz, L., Spitsin, S.V., Meshki, J., Tuluc, F., Douglas, S.D., Wolfe, J.H. Substance P enhances HIV-1 infection in human fetal brain cell cultures expressing neurokinin-1 receptor. *Journal of Neurovirology* 19: 219-227, 2013. DOI 10.1007/s13365-013-0166-x.

Abstracts (Limited to past eight years)

1. Schwartz, L., Bhatnagar, S., Gunnam, S., Koganti, S., Tuluc, F., Lai, J-P., Douglas, SD. Enteric astroglial activation by gp120 and SP as a possible factor in pediatric HIV-1/AIDS associated abdominal pain. (Presented as an Oral Abstract: American Pain Society Clinical and Basic Science Data Blitz, 29th Annual Scientific Meeting, Baltimore, 2010).
2. Wong, K., Patel, V., Gunnam, S., Lalova, C., Koganti, S., Schwartz, L. Role of Substance P in CCL2/MCP-1 production through NF kappa B- and MAPK-dependent pathways upon binding to full length isoform of neurokinin-1 receptor in rat enteric astroglia. (Presented as an oral abstract and in poster session. Foundation for Anesthesia Education and Research Meetings, San Diego, 2010).
3. Chinappen, D., Ku, M., Xiao, R., Baker, E., Roberts, T., Hazra, R., Purdy, J., Wolters, P., Schwartz, L. Total and regional brain volume decrements in perinatally HIV-infected youths as a potential Biomarker for HIV-associated neuropathology. (Presented in poster session at the 18th Annual Conference on Retrovirus and Opportunistic Infections, Boston, 2011).
4. Gunnam, S., Koganti, S., Lalova, L., Schwartz, L. Primary enteric astroglia from rat: characterization and proinflammatory response to chemokines SDF-1 α and RANTES. (Presented in poster session at the 30th Annual Scientific Meeting of the American Pain Society, Austin, 2011).
5. Schwartz, L., Heydendael, W., Sengupta, A., Gunnam, S., Bhatti, T., de Zoeten, E., Bhatnagar, S. Repeated stress produces enteric inflammation in rats exposed to a sub-threshold dose of dextran sodium sulfate. (Presented in poster session at the 2011 meeting of the Society for Neuroscience, Washington, D.C., 2011).
6. Schwartz, L., Tuluc, F., Spitsin, S., Meshki, J., Lalova, C., Kahn, MM., Douglas, SD., Wolfe, JH. Effects of SP / neurokinin-1 receptor binding in nestin+ human fetal brain cells. (Presented in poster session at the 11th International Symposium and Conference on HIV in the Nervous System, New York, 2012).

Reviews and Chapters

1. Schwartz, L., Houck, C. Pain associated with HIV in children (Chapter 21). In: Nedeljkovic S.S. (Ed.) Pain Management of HIV/AIDS Patients, Butterworth Heinemann, Boston, 2002, 269-285.
2. Lawrence, D.M.P., Schwartz, L., Major, E.O. Psychiatric and neurological complications of HIV infection and AIDS. In: Fatemi S.H. (Ed.) Neuropsychiatric Disorders and Infection, Taylor and Francis, London, 2005.
3. Schwartz, L., Major, E.O. Neural Progenitors and HIV-1-associated central nervous system disease in adults and children. Current HIV Research. 4(3): 319-327, 2006
4. Schwartz, L. Electroacupuncture in paediatric care. In: Mayor D (Ed.) Electroacupuncture, Churchill, Livingston, Harcourt Publishers Ltd., London, 2006.
5. Delair, S.F., Serchuck L.K., Schwartz, L. Growing up with HIV disease. In: Gendelman H., Grant I., Everall I.P, Fox, H.S., Gelbard H.A., Lipton S.A., Swindells S. (Eds.) The Neurology of AIDS (3rd edition), Oxford University Press USA, New York 2011