

Curriculum Vitae

Part I: General Information

Date Prepared: February 1, 2015

Name: Francis Gregory R. Samonte

Permanent Address: 5570 Valerio Trail, San Diego, Ca. 92130

Email: frsam_md@hotmail.com

Education:

- 1988 Non *Hebrew University of Jerusalem*, Jerusalem, Israel
- 1989 B.A. *Boston College* (Philosophy & History), Chestnut Hill, MA.
- 1995 M.D. *DeLaSalle University* (Medicine), Cavite, Philippines
- 2004 Cert. *Harvard Medical School*, Continuing Medical Education, Endocrine Emergencies, Boston, Ma, 8/04.
- 2005 Cert. Children's Hospital Boston / Institute for Community Inclusions, Leadership Education in Neurodevelopmental Disabilities, Boston, Ma.
- 2010-12 *Johns Hopkins University*, Zanvyl Krieger School of Arts and Sciences, Advanced Academic Programs (Bioscience/Biotechnology).
- 2012 Cert. Harvard Medical School, Dept. of Continuing Education, Seizures & Epilepsy, Boston, Mass., January 2012.

Continuing Education:

- 2003 F.M. Kirby Foundation Neuroscience Symposium, Neurogenesis and Synaptogenesis, Children's Hospital, Boston, Ma, 9/03.
- 2004 Whitehead Institute Symposium XXII, Disease, Development and Darwin: Experimental Models of Human Disorders, Massachusetts Institute of Technology, Cambridge, Ma, 9/04.
- 2004 Harvard Medical School, Dept. of Continuing Education, The Michael J. Bresnan Child Neurology Course, Cambridge, Ma, 9/04.

Postdoctoral Training:

Internship/Residency:

- 1996-1997 Internship in Adult-Internal Medicine, Air Force General Hospital, Pasay City, Philippines
- 1998 Practice Patient Care, Delgado Hospital, Quezon City, Philippines

- 2005-2006 Pediatric Residency (PGY-1), Kosair Children's Hospital / University of Louisville, Louisville, Ky.
- 2006-2007 Pediatric Residency (PGY-2), Schneider Children's Hospital / North Shore/LIJ, New York, NY.
- 2007-2009 Adult Neurology, New England Medical Center & Beth Israel Hospital, Boston, Ma.
- 2008-2010 Adult Neurology, Beth Israel Hospital/Brigham & Women's Hosp., Boston, Ma.
- 2008-2010 Child Neurology Fellowship, Children's Hospital Boston/Harvard Medical School, Boston, Ma.

Clinical Observership:

- 2000-2004 Pre-residency clinical (observer), Children's Hospital Boston, Dept. of Neurology, Boston, Ma.
- 2002 Clinical observer (internal medicine), Faulkner Hospital, Boston, Ma
- 2011-2012 Neurophysiology & EMG Guided Botox, Adult & Pediatric Neurology, Brigham & Women's Hospital / South Shore Hospital, Boston, Ma.
- 2011-2012 Headache & Pain Clinic, Children's Hospital Boston, Department of Anesthesia, Boston, Mass.

Research / Academic Training:

- 1998-1999 Research Associate of *Robert Rust, M.D.*, Children's Hospital Boston, Dept. of Neurology, Boston, Ma.
- 1999-2003 Research Associate of *Basil Darras, M.D.*, Children's Hospital Boston, Dept. of Neurology, Boston, Ma.
- 2003-2004 Research fellow of *Joseph Volpe, M.D./ Frances Jensen, M.D.*, Children's Hospital Boston/Harvard Medical School, Division of Neuroscience, Boston, Ma.
- 2004-2005 Fellowship *LEND* (Leadership Education in Neurodevelopmental and Related Disabilities) program under *Allen Crocker, M.D./ David Coulter, M.D.*, Children's Hospital Boston, Boston, Ma.
- 2005 Research fellow of *Mustafa Sahin, M.D./Michael Greenberg, M.D.*, Children's Hospital Boston, Division of Mental Retardation Research, Boston, Ma.

Faculty/Academic Appointment:

- 2007-2008 Assistant Faculty, Department of Pediatrics, Tufts Medical School, Boston, Ma.
- 2012-2013 Assistant Professor, Department of Biology, Ateneo University, Philippines.

2012-2014 Assistant Professor, Department of Physiology, De LaSalle University Medical School, Philippines.

Licensure and Certification:

1998 Philippine Board Exam (Medical license, full/permanent)
 2004 USMLE (Medical License USA)
 2005 Pediatric Advance Life Support (PALS/USA)
 2005 Neonatal Resuscitation Program (USA)
 2008 Re-certified PALS/NRP (USA)
 2011 Philippine Child Neurology (Written Boards)
 2014 American Academy of Clinical Neurology (USA Diplomate)

Hospital or Affiliated Institution Appointments:

1998 Associate in Medicine, Delgado Hospital, Quezon City, Phil.
 1999-2003 Medical Extern/Research Associate, Children's Hospital Boston, Department of Neurology, Boston, Ma.
 2003-2005 Post-doctoral fellow, Children's Hospital Boston, Department of Neurology, Division of Neuroscience, Boston, Ma.
 2003-2005 Research Fellow, Harvard Medical School, Division of Neuroscience, Boston, Ma.
 2005-2006 House Staff, Kosair Children's Hospital & University of Louisville, Louisville, Ky.
 2006-2007 House Staff, Schneider Children's Hospital, New York, NY.
 2007-2008 Floating Hospital for Children at Tufts New England Medical Center; St. Elizabeth Hospital, Brighton, Ma; Lahey Clinic, Burlington Ma.
 2008- 2010 House staff, Massachusetts General Hospital; Brigham & Women's Hospital; Beth Israel Deaconess Hospital.
 2008-2010 **Harvard Catalyst**, the Harvard Clinical and Translational Science Center (CTSC), Boston, Ma.
 2011-2013 De LaSalle University Medical School, Assistant Professor, Department of Neurophysiology, College of Medicine, Philippines.

Hospital and Health Care Organization Service Responsibilities:

1998-2000 Medical Extern Consultant, Department of Neurology, Children's Hospital Boston, Boston, Ma.
 2000-2003 Prescription Coordinator, Department of Neurology, Children's Hospital Boston, Boston, Ma.
 2012-2013 Program Director, Department of Neuroscience, Protacio Hospital, Metro Manila, Phil.

Professional Societies:

1998-Pres	Philippine Medical Association (PMA)
1999-Pres	Tourette Syndrome Association (TSA)
1999-Pres	International Rett Syndrome Association
2003-2005	Society for Neuroscience (SfN)
2004-2005	National Post-Doctoral Association (NPA)
2005-2007	American Academy of Pediatrics (AAP)
2005-Pres	Kentucky Medical Association
2005-Pres	Louisville Medical Society
2006-Pres	American Academy of Neurology
2007-Pres	Child Neurology Society
2008-Pres	Massachusetts Medical Society
2012-Pres	Omicron Delta Kappa, National Leadership Honor Society (Johns Hopkins University chapter)

Community Service Related to Professional Work:

1996-1997	Medical Team Specialist, medical mission physician, Department of Medicine, Air Force General Hospital, Pasay City, Phil.
2004-2005	Somali Development Center, health/welfare, Institute for Community Inclusions, Jamaica Plain, Ma.
June 2010	World Wide Village Organization, Medical staff, Leogane, Haiti.

Awards/Honors:

1986	Golden Bear Award of Don Bosco, Salesian Order, Boston, Ma.
1997	Commanding General Citation, Air Force General Hospital, Pasay City, Philippines.
1997	Most Outstanding Intern, Department of Medicine, Air Force General Hospital, Pasay City, Philippines.
2006	Chairman's Achievement Award, Department of Pediatrics, Kosair Children's Hospital, University of Louisville, KY.
2010	7 th Annual Dean Esteban Memorial Lecture, Dept. of Anatomy, De LaSalle University, College of Medicine, Cavite, Phil.
2012	Omicron Delta Kappa, National Leadership Honor Society, Johns Hopkins University, Baltimore, MD.

Part II: Research, Clinical, and Teaching Contributions**Narrative report of Research, Teaching, and clinical contributions**

As part of a research program in the pathogenesis of periventricular white matter injury in premature infants, the primary focus of my research and study is to investigate the mechanism of this type of injury cause due to hypoxic-ischemic insult. Periventricular leukomalacia (PVL) refers to a characteristic white matter injury in premature or neonatal

brain injury. In the development of injury to the white matter, examination of oligodendrocytes and the relation of hyperexcitability in developing brains will hopefully provide a better understanding of this type of injury which in later life can lead to cerebral palsy.

Evaluation of white matter injury involves integration of a whole series of techniques involving in vitro and in vivo whole animal (rat) models. Brain tissue slices are maintained and examined for specific types of injury reactions by looking at receptors and cell markers. Gene and protein expressions in brain specimens will be evaluated closely through immunocytochemistry analysis. Eventually a chronological time course description will emerge from these series of studies. This increase in understanding will hopefully lead to further exploration of possible treatment studies. Development of neuroprotective and antiepileptic strategies of long term potentiation without neurocognitive effects is the main goal of this research program. Currently there are no clinically effective treatments for refractory neonatal seizures or for periventricular leukomalacia (PVL).

Report of Research Activities

Project: Clinical findings in chronic inflammatory polyradiculoneuropathy

Descriptive clinical study on pediatric chronic inflammatory demyelinating neuropathy involving epidemiological, clinical presentations, and analysis on cell and immune mediated reaction.

Project: Time course study on microglia in selective white matter injury

Immunocytochemistry analysis of activated microglia- its role in the inflammatory response following hypoxia-ischemia cerebral injury in rats. Descriptive study on maturational variation in microglia found in white matter during development.

Role: Research Fellow

Project: Role of excitotoxic oligodendrocyte injury in periventricular leukomalacia.

Evaluation of glutamate receptor expression and function across oligodendrocyte lineage in rodent white matter in relation to human. Chronological progression of oligodendrocyte development following white matter injury.

Role: Research fellow

Project: Protective efficacy of minocycline hydrochloride after cerebral UCL/HI in immature rat model for periventricular leukomalacia (PVL).

Evaluation of minocycline on oligodendrocyte injury and microglia in in vivo models of PVL. Determination of mechanism and protective efficacy of the drug through cell marker characterization.

Role: Research fellow

Project: Clinical and Electrophysiologic Findings in Chronic Inflammatory Demyelinating Polyradiculoneuropathy (CIDP). Study on clinical presentation, management, and electromyographic findings on CIDP in children, seen at Children's Hospital Boston and University of Virginia Health System.

Role: Research Associate

Report of Clinical Activities

1. Description of Clinical practice

1998	Staff Physician, Outpatient Clinic, Medicine, Delgado Hospital, Quezon City, Phil.
2005	House staff physician, Kosair Children's Hospital / University of Louisville, Louisville, Ky.
2006	House staff physician, 410 Lakeville Road, Long Island Jewish Medical Center, New Hyde Park, NY.
2008-10	Neurology house staff, Department of Neurology, Fegan 11, 300 Longwood Avenue, Boston, Ma.
2012-14	Neurology Consultant, Baypointe Medical Center, SBMA, Phil.

2. Patient Load

2005	Outpatient: University Child Health Specialists, East Broadway St., Louisville, KY. Weekly clinic on general pediatric population with referral service provided at Kosair Children's Hospital. Inpatient: House staff at Kosair Children's Hospital & University of Louisville Hospital, Louisville, KY. General pediatric medicine, neonatal intensive care unit, and subspecialty areas related to pediatric medicine.
2008-10	Outpatient: Children's Hosp Boston, Fegan 11. Weekly general pediatric neurology clinical setting (neuromuscular disorder, learning and behavioral disorder, epilepsy, neuro-degenerative/developmental disorders, metabolic disorder).

Inpatient: Children's Hospital, Beth Israel Boston, Brigham & Women's Hosp. Adult and pediatric neurology cases admitted in ICU and general admission.

2012-14 Inpatient & Outpatient at Baypointe Medical Center. Patients are primarily composed of adult & pediatric population composed of epilepsy, cerebral palsy, developmental disorder, cerebrovascular diseases, neurodegenerative conditions.

3. Clinical Awards:

1997 Commanding General Citation, Air force General Hospital, Phil.

2006 Chairman's Achievement Award, Department of Pediatrics, Kosair Children's Hospital, University of Louisville, KY.

Report of Teaching, Guest Lecturer & Presentations

2004

Society for Neuroscience (SfN) workshop for Science Teachers: "Bringing Together K-12 Teachers and Neuroscientists," Salk Institute for Biological Studies, La Jolla, CA, October 2004.

Presentation (poster): Society for Neuroscience Annual Meeting "Microglial expression in white matter after cerebral hypoxia-ischemia in the immature rat," San Diego Convention Center, San Diego, CA, October 2004.

2005

LEND Program / Institute for Community Inclusions: "Workshop & Community Health Care Forum (diabetes mellitus, cardiovascular disease, neurodevelopmental disabilities)," Somali Development Center (SDC), Jamaica Plain, MA, 1/05-4/05.

Institute for Community Inclusions / UCEDD: "Somalis: Perspective in Health and Culture," Children's Hospital Boston, Longwood Galleria, Boston, MA, May 13, 2005.

2006

Chairman's Conference: "Chronic Inflammatory Demyelinating Polyradiculopathy," Norton Hospital / Kosair Children's Hospital, Louisville, KY, March 16, 2006.

Tumor Board Conference: "Small Cell Ovarian Carcinoma," Norton Hospital / Kosair Children's Hospital, Louisville, KY, June 13, 2006.

Department of Pediatrics: "Breastfeeding," Schneider Children's Hospital, New Hyde Park, NY, August 4, 2006.

Department of Pediatrics: “Colic in infancy,” Schneider Children’s Hospital, New Hyde Park, NY, December 21, 2006.

2008

Department of Neurology: “Paroxysmal Non-kinesigenic Dyskinesia,” Chief Rounds (Sanjeev Kothare), Children’s Hospital Boston, Boston, Ma, August 19, 2008.

2010

Department of Neurology: “Spinal Muscular Atrophy,” Senior Grand Rounds (Kenneth Fishbeck), Children’s Hospital Boston, Boston, Ma, January 20, 2010.

Department of Pediatrics: “Neonatal Hypoxic-Ischemic Injury,” Tufts Medical Center, Boston, Ma, August 20, 2010.

Seventh Annual Dean Esteban Memorial Lecture: “Periventricular Leucomalacia,” De LaSalle University, College of Medicine, Cavite, Philippines, September 8, 2010.

Neuroscience Grand Rounds: “Neonatal Hypothermia Protocol,” Philippine Children’s Medical Center, Quezon City, Phil, September 16, 2010.

Department of Pediatrics: “Childhood Demyelinating Conditions,” Tufts Medical Center, Boston, Ma, October 15, 2010.

2011

Faculty of Medicine, “Seizures & Movement Disorders,” Ateneo Medical School, Pasig City, Philippines, September 17, 2011.

Department of Biology, “Current Trends in Neurology,” Ateneo de Manila University, Quezon City, Philippines, September 19, 2011.

2012

Department of Emergency Medicine, Baypointe Hospital Medical Center, SBMA, Zambales, February 10, 2013.

2014

Department of Education, Learning & Behavioral Disorder (Autism & ADHD), Iba Central School, guest resource speaker, December 5, 2014.

Report of Training

2004 Post-doctoral fellow training of Hyun-Kyung Park, MD/PhD (Jensen/Volpe Lab), Children’s Hospital Boston/Harvard Medical School, Division of Neuroscience, Boston, Ma, 7/04-9/04.

2004 Post-doctoral fellow training of Simon Manning, MD (Jensen/Volpe Lab), Children's Hospital Boston/Harvard Medical School, Division of Neuroscience Boston, Ma, 7/04-9/04.

Part III: Bibliography

Publications

- 1) Descriptive study on oral rehydration solution in cases of childhood diarrhea, Hipol, Alip, Samonte, et al. (1994), DLSU Medical Center.
- 2) Microglial expression in white matter after cerebral hypoxia-ischemia in the immature rat, FR Samonte, PL Follett, JJ Volpe, FE Jensen (2004), Society for Neuroscience, Children's Hospital Boston/Harvard Medical School, Boston, Ma.
- 3) Findings in chronic inflammatory demyelinating polyradiculoneuropathy, Samonte FR, Louisville Medicine June 2006; Vol.54, No. I, pp. 9-13, 33.
- 4) Minocycline treatment following hypoxic-ischemic injury attenuates white matter injury in a rodent model of periventricular leucomalacia, Lechpammer, Manning, F R Samonte, J J Volpe, F E Jensen, Neuropathology & Applied Neurobiology. 2008 Jan 21.
- 5) Description of Seizures among Patients with Prader Willi Syndrome, Maski KP¹, Samonte F¹, Tan W¹, Kothare SV, Child Neurology Society, Children's Hospital Boston/Harvard Medical School, Boston, Ma.
- 6) Review of Narcolepsy in Children, Francis Samonte, Louisville Medical Journal September 2010; Vol.58, No.4, pp.11-15.

Manuscript: (unpublished)

- 1) Retrospective Study on Childhood Migraine Headache, Rust, R., Barlow C., Samonte, F., (1998), Children's Hospital, Boston, MA, (abstract).
- 2) A Study on Clinical and Electrophysiologic Findings in Chronic Inflammatory Polyradiculoneuropathy, Darras, B., Rust, R., Samonte, F., Children's Hospital, Boston, MA, (-abstract).
- 3) Blood-Nerve Barrier: Functional Implications, Samonte, FR., Long Island Jewish Hospital, 2007 Academic Competition, New Hyde Park, New York: (-abstract).
- 4) REM Sleep Behavior Disorder induced by SSRI use in a child with autistic features, self injurious behavior, and abnormal sleep/wake cycles: Smith-Magenis Syndrome, ¹Francis Samonte, ²Eliot S. Katz, ³David Miller, ⁴Sanjeev V. Kothare, Journal Sleep Medicine, (pending, submitted).