

DEEPA PREETI RAMASAMY M.D.

Designation

Research Imaging

EDUCATION

MBBS 09/1992 - 04/1997, Chennai Medical College, India

Transitional Year Residency 05/1997 - 11/1999, Chennai Medical College, Chennai, India

CERTIFICATIONS

- **MBBS** – 1997, The Tamil Nadu Dr.M.G.R Medical University, Chennai, India
- **Transitional Year Residency** – 1999, The Tamil Nadu Dr.M.G.R Medical University, Chennai, India
- **ECFMG** (Educational Commission for Foreign Medical Graduates) Certified 2004
- **USMLE** (United States Medical Licensing Examination) Step 3 09/2004
- **USMLE** (United States Medical Licensing Examination) Step 2 CK (Clinical Knowledge) 12/2003
- **USMLE** (United States Medical Licensing Examination) Step 1 05/2003
- **ECFMG** (Educational Commission for Foreign Medical Graduates) - TOEFL (Test of English as a Foreign Language) 04/2003
- **ECFMG** (Educational Commission for Foreign Medical Graduates) - CSA (Clinical Skills Assessment) 01/2004

TECHNICAL SKILLS

Computer skills: Word, Excel, PowerPoint, Linux

Imaging Software – FreeSurfer, Java Imaging Manipulation, Statistical Parametric Mapping, Voxel Based Morphometry, Mat lab, Ginger ALE, SIENAX, Talairach Daemon

Database: SPSS/windows

PROFESSIONAL EXPERIENCE

Work Experience 9/2002 - 4/2003, Gayathree Medical Center, Theni, India

Average Hours/Week: 80

Director: Dr. Venkatesh

Designation: House Officer

- Attended the outpatient department every morning from September 2002 to December 2002
- Responsible for providing antenatal care, the conduct of normal labor and delivery
- Identified the complications of labor, delivery and the puerperium and summoned expert help as needed
- Assisted in Cesarean section and other high risk obstetrics under the supervision of Dr. Gayathree.
- Continued rotation in the Internal Medicine Department from January 2003 to April 2003 under the supervision of Dr. Venkatesh
- Responsible for the patients admitted under my care with respect to history taking, physical examination, differential diagnosis, laboratory work, treatment plan and patient chart documentation
- Discussed each case with Dr. Venkatesh every day and followed up at the outpatient department

4/2002 - 8/2002, Holy Redeemer Hospital, Theni, India

Average Hours/Week: 80

Director: Dr. Ajikannammal

Designation: House Officer

- Provided antenatal care and postnatal care
- Management of labor and obstetrics complications
- Assisted in lower segment Cesarean section
- Counseled young mothers about breast feeding, immunization, safe sex, Pap smear, breast cancer screening and contraception

7/1999 - 11/2001, St. Isabel's Hospital, Chennai, India

Average Hours/Week: 80.

Director: Sr. Philomena Joseph M.B.B.S D.G.O.

Designation: House Officer

- Worked as a house officer at St. Isabel's Hospital and was responsible for post operative care in Surgical Intensive Care Unit from July 1999 to December 2000
- Discussed each case with the attending of record or my designate on the day of admission and on a daily basis there after
- Worked in the Internal Medicine department as a house officer from January 2001 to November 2001 under the supervision of Dr. Alfred Paul
- Responsible for evaluation of patients admitted to my care on the floor and in the Intensive Care Unit with particular reference to history taking, physical examination, appropriate laboratory procedures, treatment plan and patient chart documentation and patient discharge
- Discussed each case with Dr. Alfred Paul M.D. every day and further follow up of patients at the outpatient department

Research Experience

4/2006 - current

Average Hours/Week: 40, Buffalo Neuroimaging Analysis Center, JNI, USA

Director: Dr. Robert Zivadinov

Designation: Research Imaging

Major Fields of interests is in clinical trials:

- Assisted with programming of **FreeSurfer** software to implementation and to perform
 1. sub cortical segmentation and volumetry on MRI images of patient group and normal controls
 2. Cortical thickness and volumetry using FreeSurfer Software on patient group and normal controls
- **Voxel Based Morphometry** – voxel wise comparison of local concentration of gray and white matter between 2 groups of subjects
- **Flair lesion volume, black hole lesion volume, Gadolinium enhancing lesion analysis** using Java Imaging Manipulation (JIM) Software on multiple sclerosis patients

- **Lateral Ventricle Volume (LVV) and Third Ventricle Width (3VW) analysis** using JIM Software on multiple sclerosis patients and normal controls
- **Measurement of Spinal Cord Atrophy using Analyze Software and Mat lab** on multiple sclerosis patients and normal controls
- Regional brain atrophy measurement using **SIENA** (longitudinal), **SIENAX** (cross-sectional)
- **Statistics**
 1. Performed statistical analysis using SPSS
 2. General Linear Model Analysis using FreeSurfer software on patient group and normal controls by defining region of interests
 3. Developed and maintained several research databases and spreadsheets using Excel, SPSS
- **Presented** research findings at international neurological congresses

PRESENTATIONS

- **Presentation: Extent of deep grey matter atrophy in patients with multiple sclerosis. A case control study**
D.P. Ramasamy, D. Fritz, J.L. Cox, N. Abdelrahman, S. Hussein, M.G. Dwyer, R. Zivadinov Buffalo Neuroimaging Analysis Center (Buffalo, US)
- **Presentation: Hippocampal atrophy does not correlate with cognitive decline in patients with multiple sclerosis**
R. Benedict, D.P. Ramasamy, J.L. Cox, M.G. Dwyer, D. Fritz, F.E. Munschauer, B. Weinstock-Guttman, R. Zivadinov Jacobs Neurological Institute (Buffalo, US); Buffalo Neuroimaging Analysis Center (Buffalo, US)
- **Poster: A longitudinal study of deep grey matter atrophy in patients with multiple sclerosis. A case control study**
R. Zivadinov, D. Ramasamy, E. Havrdova, N. Bergsland, Z. Seidl, N. Abdelrahman, M. Dwyer, M. Vaneckova, D. Horakova University of Buffalo (Buffalo, USA); Charles University (Prague, CZ)
- **Poster: Extent of subcortical and cortical atrophy and disease severity in patients with multiple sclerosis. A case-control study**
D.P. Ramasamy, R.H.B. Benedict, M.G. Dwyer, M. Stosic, D. Fritz, R. Zivadinov University of Buffalo (Buffalo, USA)
- **Poster: Protective effect of Met66 allele of BDNF polymorphism on grey matter volume in patients with multiple sclerosis: a voxel-based morphometry study**
D. Ramasamy, M. Ramanathan, J. Cox, B. Weinstock-Guttman, N. Bergsland, R. Benedict, M. Dwyer, R. Zivadinov Buffalo Neuroimaging Analysis Center

(Buffalo, USA); Dept. of Pharmaceutical Sciences, SUNY (Buffalo, USA); The Jacobs Neurological Institute (Buffalo, USA)

- **Poster: Reduced gray matter volume in multiple sclerosis carriers of APOE e4 allele. A voxel based morphometry study**

Jennifer L.Cox, Murali Ramanathan, Deepa P. Ramasamy, Bianca Weinstock-Gutman, Niels Bergsland, Ralph HB. Benedict, Michael G. Dwyer, Zivadinov Robert; Buffalo Neuroimaging Analysis Center, Department of Neurology, University at Buffalo, State University of New York, Buffalo, NY, USA; Department of Pharmaceutical Sciences, State University of New York, Buffalo, NY, USA and The Jacobs Neurological Institute, Department of Neurology, University at Buffalo, State, University of New York, Buffalo, NY, USA

VOLUNTEER WORK

12/2002 - 4/2003

House Officer, Gayathree Medical Center, Theni, India

- Volunteered for Pulse Polio Immunization and health camps at welfare centers
- Participated in eclampsia and iron deficiency anemia screening of antenatal women in the underserved Theni district, India

12/1996 - 11/1999

Medical Student, Chennai Medical College, Chennai, India

- Volunteered in Pulse Polio Immunization Program, funded by Federal Government of India from 1996 to 1999
- Participated in various school health camps organized by Social and Preventive Medicine department of Chennai Medical College
- Gathered questionnaires from lower income people of Chennai about sexual health as a part of rural HIV Research project
- Participated in National Malaria and Leprosy Program at Chennai, India
- Participated for Blood drive – Indian Red Cross Organization

RECOGNITIONS AND HONORS

- Principal's list : Best class student for continuous 10 years, St. Johns Senior School, Chennai, India
- Best House officer of the year – Gayathree Medical Center, Theni, India

- On behalf of the ECTRIMS Scientific Committee 2007, I will receive a travel grant of 400 EUR and Free Registration to acknowledge the quality of my scientific contribution to this congress at Prague, 2007

Hobbies & Interests

- I enjoy browsing the web, watching sports, listening to music, traveling and spending time with my family and friends.
- My interests include volunteering at many health camps, blood donation camps, doing research and reading for the blind.

Language Fluency (Other than English)

- Fluent in Tamil
- I have a working knowledge of Hindi and Telugu