### FACULTY

**Dr. Kinsella - Laurence.Kinsella@fphstl.com**

**Current projects:**

1) Head Trauma, Alcohol, and Environmental Toxins and Cognitive Function- Invited Review for Clinics of Geriatrics- Vikas Kumar, resident.

2) Anegrelide-induced epilepsy: case report: manuscript completed, submission pending- Tiki Husain, resident.

3) Postural Headache in POTS: abstract submission for the AAN- Ashok Sriram, resident

4) Diagnostic yield of Bedside Orthostatics vs Tilt Table testing in the Dizzy patient- Faroud Faraji, medical student

5) What is the optimal duration of the tilt table test?

**Research/Writing ideas/opportunities for residents (students?):**

1) Co-incidence of Rotator Cuff Syndrome and Carpal Tunnel Syndrome in the Neurophysiology laboratory

2) SLUCare Autonomic Laboratory experience with POTS (about 20 cases)

3) SLUCare Autonomic Laboratory experience with full autonomic battery (about 30-40)

4) SLUCare Autonomic Laboratory experience with tilt table testing: diagnostic yield (>300 studies)

5) The clinical utility of skin biopsy testing: correlation with symptoms and electrodiagnostic testing (>100 biopsies)

"Orphaned projects/manuscripts."

I have another category that could be termed "orphaned projects/manuscripts." I have at least 10 papers or abstracts that have languished, some written, some even accepted with revisions, that have never been completed and published. It is my academic Achilles heel, entirely due to my own distractibility and the endless press of patient demands. I could offer these to an interested resident to help me complete, and place his/her name on the publication.

1) Neurologic complications of Gastric Bypass (written, never submitted)

2) Plantar nerve entrapment: an electrodiagnostic re-evaluation (already accepted with revisions)

3) Radiation Plexopathy: a warfarin-responsive neuropathy?- written, not submitted.

4) Virus Hunting in the 1930's: Ralph Kinsella and St Louis Encephalitis- written, not submitted.

5) Is Methylmalonic Acid a better indicator of cobalamin deficiency than the B12 assay?- presented, never written
6) Fleeting paresthesias: anxiety symptom or Small Fiber neuropathy?: presented, never written- Anna Wojcicka, resident
7) Refractory "CIDP" due to Amiodarone toxicity- presented, never written.

**Dr. Grossberg - grossbgt@slu.edu**

**Current Projects**

I am currently working with 5 residents on various projects (1 Neuro and 4 Psych)

1) Prevalence of PD and PDD in Community Nursing Homes-Pilot Research Project
2) Cultural Determinants of BPSD in AD: Taiwan vs US-Pilot Project
3) Impact of Visual Correction on Behavioral Symptoms in AD Via the Use of Extended Wear Contact Lenses- Follow-up Study
4) Diurnal Rhythm Variation in AD- Invited Review Article
5) Orixegentic Agents In Psychogeriatrics - Invited State-of-the Art Review

I also have other invited reviews pending including one on Efficacy and Safety of High-dose Extended-release Memantine in Mild to Moderate AD.

**Research projects available:**

1) Cross-cultural Presentation of Major Depression in the Elderly: St Louis and Lucknow (India)
2) The Psychogeriatric Patient in the Emergency Room-A Descriptive, Chart-Review Study
3) Prevalence of Lewy Bodies and Lewy Body Dementia In the SLU Brain Bank- A Retrospective Analysis
4) Aging Golden Gloves Participants- A Naturalistic Followup to Determine Incidence of Dementia
5) Aging Bipolar Patients and Their Risk of Psychiatric Hospitalization

**Dr. Malhotra- rmalhot1@slu.edu**

Here are 5 ideas for research regarding Sleep medicine:

1) Case Report on the use of Xyrem (sodium oxybate) in pregnant females. Xyrem is a new medication for narcolepsy. I have one patient with narcolepsy who has been pregnant twice while using Xyrem. There are no published cases of patients using this medication while pregnant and its outcome. She had two healthy children.

| skacso | Page 2 | 1/5/2010 |
2) Sleep and its effects on healing: What is sleep like after having a particular surgery performed? (for example, knee surgery) My guess is that it would be disrupted, but I am not aware that anyone has quantified this using an actigraph or sleep diaries. More importantly, does giving them better sleep (with a hypnotic or CBT or sleep hygiene) help overall recovery? This second question would take more time, but characterizing their sleep may be interesting. This could also be done in TBI or concussion patients.

3) Ophthalmology and Sleep: How common are side effects of the eyes in CPAP users? Most eye specialists see patients all the time complaining of dry eyes from their CPAP use at night. No one has ever quantified how common of a "side effect" this is, or what is the best approach. We usually would give artificial tears, but again, no one has shown this to be effective or necessary.

4) Glaucoma and OSA. How common is glaucoma in OSA patients? There does seem to be a higher rate of OSA in glaucoma patients, but the reverse has had positive and negative results. You would basically take our osa patients and have them see ophthy or use some sort of screening measure to see how many have glaucoma.

5) Sleep Medicine education in medical school: There are very few sleep medicine electives in medical schools around the world. I am aware of only one publication on the topic. I was thinking about writing an article describing our elective here at SLU, but it would be nice to have some data regarding what SLU med students know about sleep in general, and what students learn after being on for 3 weeks. Maybe a pre and post test? Maybe how many patients do they recognize with sleep disorders before and after the rotation? I am not sure what we could measure, but it seems like having 14 students on this year is a large sample to share with the rest of the world.

Dr. Florian Thomas - thomasfp@slu.edu


2. Vitamin B12 deficiency. Review Article

3. Multidisciplinary management of Metabolic Syndrome associated with Spinal Cord Injury

4. HNPP. A study of 1 family with multiple affected members and a wide range of neurological symptoms

5. Quality of life in dominant intermediate Charcot-Marie-Tooth disease Type C. Correlation with neurological symptoms and signs

Dr. Yi Pan: - pany@slu.edu

1. 

2. The antiepileptic effect of vagus nerve stimulation: a retrospect study from medical record charter review.

Opportunities in Forensic Psychiatry Research

The available resident research opportunities include data analyses in one of two samples.

The first sample is comprised of 338 individuals and the second sample of 100 women. Both samples are obtained from a community corrections population. Current projects examine the impact of gender, race, and age on drug of choice, mental illness frequency, suicidal ideation/ attempts, and treatment seeking behaviors in these samples of individuals with high frequencies of antisocial personality disorder and substance dependence.

Additional projects might include determining risk factors for correctional recidivism and gene-environment studies (GxE) in adult externalizing disorders. (Please note that resident involvement in data analysis of completed and de-identified data sets will likely qualify for an IRB exemption, but resident participation in the active G X E analyses might involve IRB action to add the resident to the research team, which could delay the possible start date.)

Other analyses of these datasets have been published and presented at local, national, and international meetings. The resident electing to complete such a project could choose the scholarly outlet most fitting his or her unique needs.

Future projects might include examinations of the jail mental health system, but there is no IRB approved project ongoing at this time. If a resident has an interest in this area, we can explore what would need to be done, and the timeframe needed, to make this kind of experience available.

Current research and manuscript projects: some of the titles need to be revised.

1. Invited publication for Current Psychiatry: Mood disorder across the life span.


3. Autonomic changes during ECT in patients with hypertension: abstract for APA and eventually a publishable article. We have the data.
4. Mood disorders in elderly: Is maintenance ECT effective. A five year retrospective study. We have the data. Resident needs to write a paper and can be a grand round presentation.

5. ECT in mood disorders with patients who have dementia: a five year retrospective study.

Work in progress, protocols and other collaborations are in discussion.

6. Comparison of attitude towards elderly as depicted by Television ads from India and USA.

7. Treatment and diagnosis of Mood disorders in elderly: a comparison study of patients from India and USA.

8. Elder abuse: A collaborative study with Division of Aging.

9. Collaborative study with area shelters in recognition and prevention of substance abuse. Does peer education help?

10. Street Yoga: Does it change life style and promote healthy living.

**Dr. Pratap Chand** - pchand1@slu.edu

1. Case report: Occupational dentist's dystonia -- Dr. Fei Pan in progress

2. Brain bank data analysis of co morbidity of PD and AD - Dr. Sameea Hussain and Dr. Ashok Sriram -- in progress

3. Case report: DBS in Klinefelter's Syndrome and Tremor (open for a resident to take up)

4. Case Report: DBS in SCA (open for a resident to take up)

5. Case Report: DBS in Lesch Nyhan syndrome(open for a resident to take up)

**Dr. Deepa Arun** - darun@slu.edu

1. Evaluation of depression in our population of adolescent migraineurs and prevalence in various subtypes of migraine - (Our child neuro fellow Dr. Otto has already expressed an interest in looking into this)

2. Topiramate vs. amitryptiline for prophylaxis in chronic migraines

3. Neurodevelopmental outcome of infants treated with the hypothermia protocol in our NICU for (mild) hypoxic-ischemic encephalopathy

4. A project to identify and correct high no-show rates in the clinic

5. Reducing prescription errors and improving patient compliance using EMR
**Dr. Lauren Schwarz** - lschwa15@slu.edu

Clinical Neuropsychology Research Ideas/Topics

NOTE: these could be done as posters and/or articles

1. Are effort tests appropriate for dementia populations?
2. Are patients with psych history who develop dementia more likely to develop neurobehavioral changes with the dementia process?
3. What are the cognitive consequences of obstructive sleep apnea in older adults?
4. Write up a case study of a pre and post DBS patient
5. How does chronic pain affect cognitive functioning?

**Dr. Suma Chand** - schand3@slu.edu

1. Impact of treating Insomnia with Cognitive Behavior Therapy (CBT) for patients with headache.
2. Impact of treating Insomnia with CBT for patients with depression.
3. CBT for anxiety disorders in the elderly.
4. CBT for pseudoseizures.
5. Case report.

**Dr. Aninda B. Acharya** - acharyaa@slu.edu

1. Determine if there is an association between self-reported stress level, and availability of social support in patients undergoing inpatient rehab.
2. Do health beliefs influence compliance with medications and tobacco cessation after stroke?
3. Access to Neurology and Psychiatry care in rural areas of Missouri.
4. What factors influence late arrival (beyond 3 hours) to the hospital after stroke in patients who could potentially be eligible for tPA?
5. Develop an intervention to improve patient education on the stroke or rehab unit.
6. Regarding the degree of recovery after a stroke, determine if there is a difference in the patient’s perception versus therapist’s or physician’s perspective.

Dr. Rauchway - rauchway@slu.edu

| 1. **Rauchway, A. C.** (PI) **POHIMS** and **RHyMS**, a 2-part study.  
Retrospective study of Hyperglycemia in Multiple Sclerosis (RHyMS):  
This is a dual-center study to assess the response of blood glucose to different methods of blood sugar management for patients undergoing treatment with methylprednisolone. Approved by Saint Louis University IRB and Saint Mary’s Medical Center IRC. |
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<td><strong>Background:</strong> Most individuals with multiple sclerosis (MS) receive treatment with corticosteroids during the course of their disease. The optimal management of hyperglycemia in individuals with MS undergoing treatment with glucocorticoids has not been determined.</td>
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<td><strong>Design/methods:</strong> Retrospective chart review of patients hospitalized at Saint Louis University Hospital and St. Mary’s Hospital, admitted for MS exacerbation. Data collected will include patient demographics, type of MS, disease modifying therapy, concomitant medications, IVMP regimen, medical co-morbidities including diabetes, blood glucose management regimen, blood sugars and adverse events. Comparison will be made among groups for the above variables as follows: patients on sliding scale insulin, patients on basal insulin, patients on oral glycemic agents, and patients without treatment for hyperglycemia. Data will be analyzed for blood glucose trends and compared to method of treatment. The correlation of blood glucose to method of treatment will be calculated.</td>
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<td><strong>Discussion:</strong> We hypothesize that more aggressive management of blood glucose will decrease the incidence of hyperglycemia in patients undergoing treatment with IVMP. We anticipate this will lead to reduced incidence of associated infections. This pilot data will be used to design a prospective study (<strong>POHIMS</strong>) to determine if treatment method is correlated to future development of metabolic syndrome, diabetes and relapse rate. The results of our proposed study may help clinicians to more appropriately target treatment of hyperglycemia in patients with multiple sclerosis.</td>
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<td>Results of the study will be presented at a nation-wide meeting and a manuscript will be prepared.</td>
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2. IMG Rauchway (PI)
EMD Serono, Inc. 05/17/2005 - present

**The Clinical Implications of Limb Apraxia and Associated MRI Findings in Patients with Multiple Sclerosis**
This study uses a performance test of ideomotor limb apraxia (IMA) to investigate its prevalence in individuals with MS and evaluates MRI findings in those patients with IMA. The relationship between IMA and disability is investigated. A preliminary sub-study to establish inter-rater reliability has been completed. Currently enrolling subjects.
Role: PI

I welcome 1 resident on this project to screen patients for apraxia, data collection, assist in MRI volumetric evaluation, and manuscript preparation.

3. Rauchway, AC., Willoughby, L.

**An interdisciplinary and comprehensive approach in the development of Neurology program evaluation tools.**
Our introduction to clinical neurology course will be used as a model in the development of neurology program evaluation tools. A manuscript will be prepared for submission to The Journal of Graduate Medical Education.

4. Rauchway AC.

**Resident survey data: A comparison of categorical versus advanced residency programs at Saint Louis University.**
Background: Residents who complete 4-year programs in which the first year is conducted through the department of Internal Medicine may evaluate their programs differently than residents who complete their program under one department. This may affect outcomes on nationwide ACGME surveys.

The purpose of this study is to determine if residents in categorical training programs demonstrate less satisfaction with their education than those residents in advanced programs by analyzing aggregated responses on a “nation-wide type” resident survey. A manuscript will be prepared for submission to The Journal of Graduate Medical Education.

5. **Case reports:**

- The implications of mitochondrial loss in 18p deletion syndrome
- Childhood cerebral tuberculomas
- Reversed clock phenoomena variants after right hemispheric stroke (case series)
- Stroke after GBM resection

**Dr. Cruz-Flores - cruzfls@slu.edu**

1. Comparison of CEA vs Sent for carotid stenosis (meta-analysis)
2. Decision analysis paper comparing intracranial stent vs medical treatment for intracranial stenosis
3. Decision analysis paper comparing closure vs medical treatment for PFO
4. LV dysfunction and stroke
5. Validation of ICH score
6. Several case reports (they already have residents)

**Dr. Chibnall - chibnajt@slu.edu**
1. Chronic pain and race disparities
2. Ethics decision-making for psychiatry research
3. Dementia and pain assessment
4. Medical student education evaluation
5. Social psychology of pain judgments

**Dr. Hayat - hayatm2@slu.edu**
1. Phrenic nerve pace maker in brachial plexopathy
2. Cetrixone study for ALS
3. Prediabetes and peripheral neuropathy
4. Frontotemporal dementia and ALS
5. Compressive neuropathies associated with malignancies

**Dr. Selhorst - selhorjb@slu.edu**
1. Report on effectiveness of diamox for unilateral optic disc swelling
2. Development of national registry regarding ocular flutter and trucnal instability
3. Review on outcome of pupil sparing ocular nerve palsies
4. Report on neuro-ophthalmic sequelae of coiling of cerebral aneurysms

**Dr. Alpha Vashist - avashist@slu.edu**
1. EEG in Autistic children
2. 24 Hr VEEG in children- Use or misuse?
3. Sports restriction in epileptic patients
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<th>4. CT head in ER - is it necessary? Survey of Cardinal Glennon ER studies</th>
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<td>5. Case report - spontaneous CSF leak in a toddler</td>
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**Dr. Feen - efeen@slu.edu**

1) Bander Center research project on conflict-of-interest between physician enrolling patient in acute stroke clinical trial and recommendation about withdrawal of care (participate in chart reviews and data collection)

2) Case report from case last year

3) Review of practice pattern about decision regarding interventional management of stroke depending upon referring physician (Chart review; data entry in stroke database; analysis of data from stroke data base) PROJECT NOT YET STARTED

4) Development of project about long-term neuropsychological effects of chronic immunosuppression in liver transplant patients PROJECT NOT YET STARTED; would be a collaborative project together with Dr. Schwartz and Dr. Schade (transplant surgeon)

**Dr. Desai - adesai@slu.edu**

**Current projects:**

1) Schizophrenia over life course: Invited manuscript for Primary Psychiatry. With Ramasubba Tatini MD, fellow.


3) Geriatric Psychiatry: Invited book chapter. Resident / fellow can sign up.


**Research projects for residents / fellows:**

1) Develop and study practical use of checklist for promoting healthy brain aging.

2) Develop and study practical use of screening tool for identifying reversible causes / risk factors for cognitive impairment / decline.

3) Study practical use of the manuscript created by our center for healthy brain aging titled: “Facilitating transition of...
persons with dementia to a new home” (i.e. Transition from home to long-term care facility).

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<th>Dr. Edgell - <a href="mailto:redgell@slu.edu">redgell@slu.edu</a></th>
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<tbody>
<tr>
<td>1. Meta-analysis of vertebral artery origin stenting</td>
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<td>2. Automated ASPECT scoring to predict risk of thrombolysis in acute stroke</td>
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<td>3. Ultrasound guided extraventricular drain placement</td>
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<td>4. Incorporation of CTA into initial screening CT for stroke (QI project)</td>
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<td>5. Dural sinus stenting as a treatment of Pseudotumor Cerebri</td>
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<th>Dr. Kaminski - <a href="mailto:hkaminsk@slu.edu">hkaminsk@slu.edu</a></th>
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<td>1) Laboratory based project</td>
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<td>Resident will integrate with several projects in the laboratory involving myasthenia gravis and extraocular muscle biology. Concentrated commitment which is designed to lead to abstract submission and co-authorship is expected. A background in laboratory based research is best.</td>
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<td>2) Evidence-based review of neurological topic</td>
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<td>Opportunities to provide an evidence based review in the field of muscle/nerve disease are available through the Cochrane or American Academy of Neurology are available</td>
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<td>3) Medical Error Project</td>
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<td>As part of Chair's conference medical error initiative, resident will develop a project which is suitable for presentation at grand rounds</td>
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<td>4) Microarray analysis of animal myasthenia gravis</td>
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<td>Resident will review existing data set and prepare manuscript for publication, extensive knowledge of muscle biology is beneficial, with good writing skills</td>
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<tr>
<td>5) Natural History of Myasthenia Gravis</td>
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<td>Co-author on chapter, resident will update and re-write existing chapter.</td>
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