

SUNY DOWNSTATE - BROOKLYN
DEPARTMENT OF ANESTHESIOLOGY
RESEARCH PROJECTS
2008

PROJECT	LOCATION	PRINCIPAL INVESTIGATOR	STATUS
1. Anesthesia residents training in fiberoptic intubation –new technique: a) Double fiberoptic technique for intubation b) Retrograde-assisted fiberoptic intubation through tube exchanger used as spacer	SUNY Downstate	Apostol, A alexandru.apostol@downstate.edu	Active
2. Magnesium + Obstetric Patients: a) Brain bioavailability of peripherally administered magnesium sulfate in preeclamptic patients b) Association between the length of prenatal exposure of preterm newborns to magnesium sulfate and neural development outcome during the first year of life	SUNY Downstate	Apostol, A/ Altura, B (Dept of Physiology) alexandru.apostol@downstate.edu	Active
3. Intra-cerebral hemodynamic monitoring in pregnant patients during Cesarean section under spinal-epidural anesthesia	SUNY Downstate	Apostol, A alexandru.apostol@downstate.edu	IRB Approval Pending
4. Dexmedetomidine infusion for lumbar spine surgery	SUNY Downstate	Bendo, A audree.bendo@downstate.edu	IRB Approved
5. Case Series 1. Effect of dexmedetomidine on postop pain in patients undergoing spine surgery 2. Effect of dexmedetomidine IV infusion during MAC cases for spinal cord stimulation in drug-dependent cases.	SUNY Downstate	Bendo, A audree.bendo@downstate.edu	Active
6. Correlation of complement activation and factors with delayed cerebral vasospasm and delayed ischemic neurological deficits in aneurysmal subarachnoid hemorrhage patients	SUNY Downstate	Bendo, A/ Zhang, M audree.bendo@downstate.edu	IRB Approval Pending
7. Multi-center, continuous, peripheral nerve block surveillance study comparing ultrasound-guided catheter placement to non-ultrasound-guided catheter placement techniques	SUNY Downstate Lutheran Medical Center	Coloma, K/Dimaculangan, D karladam2001@yahoo.com Dennis.Dimaculangan@downstate.edu	IRB Approval Pending

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8. The relationship of depth of anesthesia to remote postop cognitive dysfunction	SUNY Downstate	Cottrell, JE/ Twersky, RS james.cottrell@downstate.edu	
9. Awareness and recall under anesthesia in major trauma patients.	KCHC	Charchaflich, J/deLong, L jean.charchaflich@downstate.edu	Proposal in Development
10. Temporal alterations in complement expression profiles are associated with increased mortality in septic shock	SUNY Downstate	Charchaflich, J/ Zhang, M/ Stutz, H jean.charchaflich@downstate.edu	IRB Approved
11. A randomized, controlled, phase 3 study of gentamicin-collagen sponge (Collagen G) in general surgical subjects at higher risk for surgical wound infection (Innocoll Co.)	SUNY Downstate	Charchaflich, J/ Zhang, M/ Kim, S (Dept of Surgery) jean.charchaflich@downstate.edu	IRB Approval Pending
12. Efficacy and safety of drotrecogin alfa (activated) in adult patients with septic shock (Eli Lilly and Company)	SUNY Downstate	Charchaflich, J/Zhang, M/ Stutz H jean.charchaflich@downstate.edu	IRB Approval Pending
13. The effect of a periarticular injection of bupivacaine-ketorolac-epinephrine- morphine-mixture, in addition to a continuous femoral nerve block, on rehabilitation and postop pain in patients undergoing total <u>knee</u> replacement.	SUNY Downstate	Dimaculangan, D Dennis.Dimaculangan@downstate.edu	IRB Approved
14. Study comparing the effects of PCEA vs. periarticular singleshoot injection (SSI) vs. continuous periarticular infiltration (CPI) of local anesthetic, on top of a standard multimodal postop pain management strategy, on pain and rehabilitation outcomes in patients undergoing total <u>hip</u> replacement surgery	SUNY Downstate	Dimaculangan, D Dennis.Dimaculangan@downstate.edu	IRB Approval Pending
15. Retrospective chart review to determine pain and rehabilitation outcomes in patients receiving multimodal analgesic regimen for total knee replacement surgery 2003-2006.	SUNY Downstate	Dimaculangan, D Dennis.Dimaculangan@downstate.edu	Active
16. Learning curve for the utilization of ultrasound during regional anesthesia/line: a) Learning curve for brachial plexus ultrasound imaging by anesthesia residents using the Cusum method	SUNY Downstate	Dimaculangan, D Dennis.Dimaculangan@downstate.edu	IRB Approval Pending

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17. Case Series: Anesthesia management for total hip replacement in sickle cell cases – Report on 3 patients	SUNY Downstate	Dimaculangan, D/ Gillette, P (Dept of Hematology/Oncology Dennis.Dimaculangan@downstate.edu)	Active
18. Observational study evaluating compliance with pain management regimen using urine toxicology	KCHC	Ganesan, S ganesans@nychhc.org	Protocol in Development
19. Airway management manual and basic workshop (for CA1 residents)	SUNY Downstate LICH	Lazar, C CLazar@chpnet.org	Active
20. Postop monitoring, respiratory outcomes and airway complications in transport and in PACU.	LICH	Lokhandwala, B BLokhand@chpnet.org	Active
21. Evaluating phantom limb pain with neuraxial anesthesia	SUNY Downstate LICH	Reyfman, L lreyfman@chpnet.org	Protocol in Development
22. Retrospective review of outcomes of patients with loose teeth	SUNY Downstate KCHC, Lutheran Medical Center, LICH	Sharma, N sharman@nychhc.org	Proposal in Development
23. Innate immunity responses to ischemic changes during cardiac surgery.	SUNY Downstate	Shevde, K/ Zhang, M Ketan.Shevde@downstate.edu	Active
24. Dexmedetomidine infusion in cardiac surgery patients: a randomized, prospective, double-blind study to test the renal benefits and myocardial protection.	SUNY Downstate	Shevde, K Ketan.Shevde@downstate.edu	IRB Approval Pending
25. Preservation of neurological and cognitive function utilizing high-dose midazolam in cardiac surgery patients	SUNY Downstate	Shevde, K/ Cottrell JE/Kass I Ketan.Shevde@downstate.edu	Protocol in Development
26. Do different positioning techniques benefit access to intervertebral space during spinal and epidural neuraxial anesthesia?	SUNY Downstate	Shevde, K/Dimaculangan, D Ketan.Shevde@downstate.edu	Protocol in Development
27. ACEI/ARB in ambulatory and day-of-surgery patients	LICH	Twersky, RS Rebecca.Twersky@downstate.edu	Active
28. A randomized, multiple-center, double-blind, placebo-controlled study of the safety and analgesic efficacy of	SUNY Downstate Lutheran	Twersky, RS/ Wagner, L / Dimaculangan, D	IRB Approval Pending

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repeated dosing of PMI-150 (intranasal Ketamine) to treat acute post-operative pain following orthopedic trauma, injury or surgery (Javelin Pharmaceuticals)	Medical Center	Rebecca.Twersky@downstate.edu	
29. Anesthetic management of patients with peripartum cardiomyopathy	SUNY Downstate	Velickovic, I Ivan.Velickovic@downstate.edu	Proposal in Development
30. Relationship between lactic acid levels and pre-eclampsia	Lutheran Medical Center	Zaratzian, A azaratzian@optonline.net	IRB Approval Pending
BASIC SCIENCE			
31. Amnesic agents and PKMzeta	SUNY Downstate	Cottrell, JE/ Sacktor, T (Dept of Physiology, Pharmacology and Neurology) james.cottrell@downstate.edu	Protocol in Development
32. Desflurane preconditioning study using the rat hippocampal slice model.	SUNY Downstate	Dimaculangan, D Dennis.Dimaculangan@downstate.edu	Active (Preparing set-up in Physiology Lab)
33. Effects of anesthetics on acid-sensing ion channels (ASICs) (Legacy Research Lab – Dr Zhigang Xiong)	Legacy Research Lab - Portland, Oregon	Lin, J Jun.lin@downstate.edu	Active
34. Middle cerebral artery occlusion: examine mechanisms by which low anti-arrhythmic doses of lidocaine and clinical doses of other anesthetic agents effect focal cerebral ischemia.	SUNY Downstate	Popp, S/Cottrell, JE (Dr Kass' Lab) ira.kass@downstate.edu	Active
35. Global cerebral ischemia: examine the effect of lidocaine and sevoflurane preconditioning on histology, immunocytochemistry and behavior following global cerebral ischemia	SUNY Downstate	Cottrell JE (Dr Kass' Lab) ira.kass@downstate.edu	Active
36. Acute brain slice: mechanisms by which anesthetics reduce hypoxic neuronal damage – to examine the effects of anesthesia on electrophysiological, molecular biological and biochemical parameters before, during and after	SUNY Downstate	Wang, J/ Meng F/Cottrell JE Jun.wang@downstate.edu	Active

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hypoxia			
37. The effect of antiarrhythmics on hypoxic neuronal damage in rat hippocampal slices.	SUNY Downstate	Worah, S Samrat.Worah@downstate.edu	Active
38. Animal models of ischemia and sepsis: to examine the innate immune responses to ischemia in genetically-modified animals	SUNY Downstate	Zhang, M/ Kass, I/ Charchaflich, J ming.zhang@downstate.edu	Active
39. MEMS umbrella-shaped actuator with active structure for medical applications	SUNY Downstate	Zhang, M / Mangla, S (Dept of Interventional Radiology) ming.zhang@downstate.edu sundeep.mangla@downstate.edu	Protocol in Development