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Associate Professor

Neurosurgery
Director of Endovascular Neurosurgery
Baylor College of Medicine
Houston, TX, US
Chief of Neuroendovascular Service, Baylor St. Luke's Medical Center

Education

MD from University of Toronto

06/2001 - Toronto, Ontario, Canada

Residency at University of Utah

06/2008 - Salt Lake City, Utah, United States
Neurosurgery

Clinical Fellowship at University of Toronto

06/2009 - Toronto, Ontario, Canada
Skull base and cerebrovascular surgery

Clinical Fellowship at University at Buffalo

02/2012 - Buffalo, New York, United States
Endovascular neurosurgery

MPH from University of Utah

06/2006 - Salt Lake City, Utah, United States

Certifications

Certified - American Board of Neurological Surgeons

11/13/2013 - present
American Board of Neurological Surgeons

Certified - Royal College of Physicians and Surgeons of Canada

06/04/2009 - present
Royal College of Physicians and Surgeons of Canada

Texas Medical License

12/03/2014 - present
Texas Medical Board

Professional Interests

Endovascular neurosurgery
Brain aneurysms
Subarachnoid hemorrhage
Brain arteriovenous malformations

Selected Publications

"3-D vascular skeleton extraction and decomposition."
"3D Vascular decomposition and classification for computer-aided detection."
"A proposed grading system for endovascular treatment of cerebral arteriovenous malformations: Buffalo score."
"Acute stroke therapy: are we ready for primetime clinical trials?."
"Adjunctive use of eptifibatide for complication management during elective neuroendovascular procedures."
"Cervical carotid artery stenosis: latest update on diagnosis and management."
"Complications after treatment with pipeline embolization for giant distal intracranial aneurysms with or without coil embolization."
"Computed tomography (CT) perfusion in the treatment of acute stroke."
"Double-barrel stent-assisted coiling of a basilar artery fenestration aneurysm."
"Early postmarket results after treatment of intracranial aneurysms with the pipeline embolization device: a U.S. multicenter experience."
"Endovascular coil embolization of a very small ruptured aneurysm using a novel microangiographic technique: technical note."
"Endovascular therapy of wake-up strokes in the modern era of stent retriever thrombectomy."
"External carotid dissection and external carotid proatlantal intersegmental artery with subclavian steal prompting external carotid and subclavian artery stenting."
"Feasibility, safety, and periprocedural complications associated with endovascular treatment of selected ruptured aneurysms under conscious sedation and local anesthesia."
"First reported use of retrievable stent technology for removal of a large

septic embolus in the middle cerebral artery."

"Horizontal deployment of an intracranial stent via an antegrade approach for coil embolization of a basilar apex aneurysm: technical note."

"Intra-arterial thrombolysis and thrombectomy for acute ischemic stroke: technique and results."

"Intracerebral hemorrhage secondary to intravenous and endovascular intraarterial revascularization therapies in acute ischemic stroke: an update on risk factors, predictors, and management."

"Intravascular ultrasound in the evaluation and management of cerebral venous disease."

"Intravascular ultrasound-guided thrombus retrieval with a multipurpose-angled catheter during carotid artery stenting."

"Intravenous thrombolysis and endovascular therapy for acute ischemic stroke with internal carotid artery occlusion: a systematic review of clinical outcomes."

"Letter to the editor: Multimodal treatment of co-existent callosal cavernous malformation and anterior communicating artery aneurysm associated with an infraoptic anterior cerebral artery."

"Long-term results of enterprise stent-assisted coiling of cerebral aneurysms."

"Outcomes of surgically treated giant pituitary tumours."

"Panacea or problem: flow diverters in the treatment of symptomatic large or giant fusiform vertebrobasilar aneurysms."

"Posterior inferior cerebellar artery to posterior inferior cerebellar artery in situ bypass for the treatment of Bow hunter's-type dynamic ischemia in holovertebral dissection."

"Results of endovascular treatment of middle cerebral artery aneurysms after first giving consideration to clipping."

"Results of stent-assisted vs non-stent-assisted endovascular therapies in 489 cerebral aneurysms: single-center experience."

"Revisiting angioplasty without stenting for symptomatic intracranial atherosclerotic stenosis after the stenting and aggressive medical management for preventing recurrent stroke in intracranial stenosis (SAMMPRIS) study."

"Solitaire Flow Restoration thrombectomy for acute ischemic stroke: retrospective multicenter analysis of early postmarket experience after FDA approval."

"Stenting of the vertebral artery origin with ostium dilation: technical note."

"Stroke intervention for middle cerebral artery thrombus in a young patient with an ipsilateral Spetzler-Martin grade V arteriovenous malformation."

"Tandem symptomatic internal carotid artery and persistent hypoglossal artery stenosis treated by endovascular stenting and flow reversal."

"Treatment and outcomes of acute intracranial vertebrobasilar artery occlusion: one institution's experience."

"Unyielding progress: carotid stenting cases from Millard Fillmore Gates Circle Hospital in Buffalo, New York."

"Utility of CT perfusion scanning in patient selection for acute stroke intervention: experience at University at Buffalo Neurosurgery-Millard Fillmore Gates Circle Hospital."

"Utility of intravascular ultrasound in intracranial and extracranial neurointerventions: experience at University at Buffalo Neurosurgery-Millard Fillmore Gates Circle Hospital."

"Vascular decomposition using weighted approximate convex decomposition."

Memberships

American Association of Neurological Surgeons

Member

Congress of Neurological Surgeons

Member

Society of Neurointerventional Surgery

Senior member

Skills

Brain aneurysms

Subarachnoid hemorrhage

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