

Curriculum Vitae

BIOGRAPHICAL

Name: Mouhammad A. Jumaa, MD Birth Date: 08/25/1979

Business Address: ProMedica Stroke Network Jobst Tower
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EDUCATION AND TRAINING

UNDERGRADUATE:

09/96 - 08/99 Damascus University, School of Medicine. Damascus, Syria Bachelor of Basic Medical Sciences

GRADUATE:

09/99 - 08/02 Damascus University, School of Medicine. Damascus, Syria Doctor of Medicine Diploma, M.D.

09/01 Department of Neurological Surgery, Northwestern University Medical School. Chicago, IL Visiting Senior Medical Student

10/01 Division of Nephrology, Northwestern University Medical School. Chicago, IL Visiting Senior Medical Student

11/01 Department of Neurology Henry Ford Hospital Detroit, MI Visiting Senior Medical Student

POST-GRADUATE:

09/02 - 07/03 New Medical Center Damascus, Syria Post Graduate Intern
Advisor/Mentor: Dr. M. S. Agha

07/04 - 06/05 University of Pittsburgh Medical Center, Department of Medicine Pittsburgh, PA Intern
Advisor/Mentor: Dr. Frank Kroboth

07/05 - 06/08 University of Pittsburgh Medical Center, Department of Neurology Pittsburgh, PA Neurology Resident
Advisor/Mentor: Dr. John Doyle

07/07 - 06/08	University of Pittsburgh Medical Center, Department of Neurology Pittsburgh, PA	Neurology Chief Resident Advisor/Mentor: Dr. John Doyle
07/08 - 6/09	University of Pittsburgh Medical Center, Department of Neurology Pittsburgh, PA	Vascular Neurology Fellow Advisor/Mentor: Dr. Ken Uchino
07/10 - 06/12	University of Pittsburgh Medical Center, Department of Neurology and Department of Neurological Surgery Pittsburgh, PA	Neuro-Endovascular Surgery Fellow Advisors: Dr. Tudor G Jovin Dr. Michael B Horowitz

ACADEMIC and PROFESSIONAL APPOINTMENTS

08/09 - 06/10	UPMC Department of Neurology Pittsburgh, PA	Clinical Assistant Professor
07/10 - 06/12	UPMC Stroke Institute Department of Neurology Pittsburgh, PA	Clinical Instructor
07/12 - 06/18	University of Toledo College of Medicine and Life Sciences, Department of Neurology	Assistant Professor
07/18 - Present	University of Toledo College of Medicine and Life Sciences, Department of Neurology	Associate Professor, Tenure awarded
07/12 - Present	UTMC - Stroke Network	Medical Director
07/12 - Present	ProMedica Stroke Network	Medical Director
05/13 - Present	Vascular Neurology Fellowship University of Toledo	Program Director
11/19 - Present	ProMedica Neurology Service	Medical Director

PROFESSIONAL ACTIVITIES

Teaching:

- Program Director, Vascular Neurology Fellowship
- Neuro-critical care residents course at UPMC 2007-2008
- Vascular Neurology resident's course at UPMC 2008-2009

- Vascular Neurology resident's course at UPMC 2009-2010
- Committee member 2007-2008: Designed a lecture curriculum based on a three years cycle for the neurology residency program at UPMC
- Course Director, weekly cerebrovascular case conference at UTMC
- Course Director, monthly cerebrovascular case conference at Toledo Hospital
- Editor of the CORE newsletter of the Society of Vascular and Interventional Neurology 2014-16
- Course Co-Director: yearly regional "Stroke Update" conference 2012-2016
- Course Co-Director: Neurological Disorders and Stroke Update conference 2017
- Course Director: Neurological Disorders and Stroke Update Conference 2018
- ProMedica Neurosciences Center Planning Committee: 2014-2015
- ProMedica Physician Leadership Board Committee 2014-2018

Invited CME lectures:

- Interventional Management of Stroke 05/12 Firelands Hospital, Sandusky Ohio
- Comprehensive Stroke Care: 10/2012 Toledo Hospital board lecture
- Care team opportunities for impact: cardiac monitoring and cryptogenic stroke, International Stroke Conference 2015
- Cervical Artery Dissection, SVIN conference 2015
- Endovascular treatment of common carotid and subclavian artery stenosis, SVIN conference 2016
- *Pre-hospital scales vs Mobile Stroke Unit as tools for bypassing Non-Endovascular Stroke Centers: the Toledo/Ohio experience, SLICE Stroke Live Course, Nice', France. 2016 and 2017*
- Tissue Plasminogen Activator – To lyse or not to Lyse? NCH Stroke Symposium 2018; Naples, Florida
- Management of Cervical Artery Dissection. Great Lakes Wound and Limb Salvage Symposium 2018. Sandusky, Ohio.
- Endovascular Treatment of origin stenosis of the supra-aortic vessels. Great Lakes Wound and Limb Salvage Symposium 2018. Sandusky, Ohio.
- Five Key Components to improving efficiency of Mechanical Thrombectomy, *SLICE Stroke Live Course, Nice', France. 2019*
- Updates on Mechanical Thrombectomy, Algerian Neurosurgical Society 2019

CERTIFICATION AND LICENSURE

- NeuroEndovascular Surgery CAST Certificate, Society of Neurological Surgeons 9/2016
- Neurocritical Care UCNS Subspecialty Certification 12/2015
- Certificate of Neuroimaging, UCNS Subspecialty certification 1/2019
- ABPN Vascular neurology Board 11/ 2011- Recertified 10/2018
- ABPN Neurology Board 1/ 2009- Recertified 10/2018
- United States Medical Licensing Examination (USMLE):
 - Step 1: Passed 1st attempt, (08/03) score 99 %
 - Step 2: Passed 1st attempt, (03/03) score 96 %
 - Step 3: Passed 1st attempt, (07/04)
 - Clinical Skills Assessment (CSA): Passed 1st attempt (01/04)
- Educational Commission for Foreign Medical Graduates (ECFMG): Certificate issued 2004.
- Pennsylvania Medical License: 2004-2012
- Maryland License: 2009-2012
- Ohio License 2012, valid
- Michigan License 2013, valid
- Florida License 2019, valid

MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

American Academy of Neurology: 07/05 - present
American Heart Association/ American Stroke Association: 10/06-present
Society of Vascular and Interventional Neurology: 09/08-present
Society of Neurointerventional Surgery: 07/13-present
Alpha Omega Alpha: UT Neurology faculty

HONORS AND AWARDS

Fellow of American Heart Association, 2021
Fellow of the Society of Vascular and Interventional Neurology (FSVIN), 2018
Excellence in Teaching, University of Toledo, Department of Neurology, 2014
Clinical Neurology, Teacher of the Year Award. University of Pittsburgh, Department of Neurology, 2010.
Resident scholarship to the American Academy of Neurology Annual meeting, 2007
Award of Excellent Performance: University of Damascus, School of Medicine, 2002.
Award of Honor: Sami Al-Droubi High school, 1996.

PUBLICATIONS

- 1- Neurologic complications following lung transplantation. Zivković SA, **Jumaa MA**, Barisić N, McCurry K. J Neurol Sci. 2009 May 15;280(1-2):90-3. Epub 2009 Feb 27.
- 2- Comparison of safety and clinical and radiographic outcomes in endovascular acute stroke therapy for proximal middle cerebral artery occlusion with intubation and general anesthesia versus the nonintubated state. **Jumaa MA**, Zhang F, Ruiz-Ares G, Gelzinis T, Malik AM, Aleu A, Oakley JI, Jankowitz B, Lin R, Reddy V, Zaidi SF, Hammer MD, Wechsler LR, Horowitz M, Jovin TG. Stroke. 2010 Jun;41(6):1180-4. Epub 2010 Apr 29.
- 3- Management of patent foramen ovale and stroke. **Jumaa MA**, Wechsler LR. Curr Treat Options Neurol. 2010 Nov;12(6):483-91.
- 4- Evaluation of Vertebral Artery Origin Stenosis: A Retrospective Comparison of Three Techniques. **Jumaa MA**, Popescu A, Tsay J, Vaughan C, Vora N, Jankowitz B, Horowitz MB, Jovin TG, Uchino K. J Neuroimaging. 2010 Dec 1.
- 5- Endovascular Therapy for Cardiac Catheterization Associated Strokes. Aleu A, Hussain MV, Lin R, Gupta R, Jankowitz BT, Vora NA, **Jumaa MA**, Zaidi SF, Anderson WD, Horowitz MB, Jovin T. J Neuroimaging. 2011 Jan 31.
- 6- Endovascular Treatment of Tandem Intracranial/Extracranial Anterior Circulation Occlusions: Preliminary Single Center Experience. Malik AM, Vora NA, Lin R, Zaidi SF, Aleu A, Jankowitz BT, **Jumaa MA**, Reddy VK, Hammer MD, Wechsler LR, Horowitz MB, Jovin TG. Stroke. 2011 Jun;42(6):1653-7.
- 7- Is a Head CT Necessary after Uncomplicated Coiling of Unruptured Intracranial Aneurysms? **Jumaa MA**, Aghaebrahim A, Zaidi SF, Jankowitz B, Jovin TG, Horowitz MB. J Neuroimaging. 2012 Jan 13.
- 8- Final Infarct Volume is a Stronger Predictor than Recanalization in Patients with Proximal Middle Cerebral artery Occlusion Treated with Endovascular Therapy. Zaidi SF, Aghaebrahim A, Urra X, **Jumaa MA**, Jankowitz B, Hammer M, Nogueira R, Horowitz M, Reddy V, Jovin TG. Stroke. 2012 Dec;43(12):3238-44.
- 9- Multiparametric MRI and CT Models of Infarct Core and Favorable Penumbra Imaging Patterns in Acute Ischemic Stroke. Kidwell CS, Wintermark M, De Silva DA, Schaewe TJ, Jahan R, Starkman S, Jovin T, Hom J, **Jumaa MA**,

Schreier J, Gornbein J, Liebeskind DS, Alger JR, Saver JL. Stroke. 2013 Jan;44(1):73-9. doi: 10.1161/STROKEAHA.112.670034. Epub 2012 Dec 11.

- 10- Increased Cerebral Oxygen Metabolism and Ischemic Stress in Subjects with Metabolic Syndrome-Associated Risk Factors: Preliminary Observations. Uchino K, Lin R, Zaidi SF, Kuwabara H, Sashin D, Bircher N, Chang YF, Hammer MD, Reddy V, Jovin TG, Vora N, **Jumaa MA**, Massaro L, Billigen J, Boada F, Yonas H, Nemoto EM. Transl Stroke Res. 2010 Sep 1;1(3):178-183.
- 11- Impact of telemedicine implementation in thrombolytic use for acute ischemic stroke: the University of Pittsburgh Medical Center telestroke network experience. Amorim E, Shih MM, Koehler SA, Massaro LL, Zaidi SF, **Jumaa MA**, Reddy VK, Hammer MD, Jovin TG, Wechsler LR. J Stroke Cerebrovasc Dis. 2013 May; 22(4):527-31.
- 12- Stentrievvers versus other endovascular treatment methods for acute stroke: comparison of procedural results and their relationship to outcomes. Ribo M, Molina CA, Jankowitz B, Tomasello A, Zaidi S, **Jumaa M**, Coscojuela P, Oakley J, Alvarez-Sabín J, Jovin T. J Neurointerv Surg. 2013 May 28.
- 13- Manual aspiration thrombectomy for cerebral venous sinus thrombosis. Jankowitz BT, Bodily LM, **Jumaa M**, Syed ZF, Jovin TG. J Neurointerv Surg. 2012 Sep 19.
- 14- Manual aspiration thrombectomy: adjunctive endovascular recanalization technique in acute stroke interventions. Jankowitz B, Aghaebrahim A, Zirra A, Spataru O, Zaidi S, **Jumaa M**, Ruiz-Ares G, Horowitz M, Jovin TG. Stroke. 2012 May;43(5):1408-11.
- 15- Outcomes after endovascular treatment for anterior circulation stroke presenting as wake-up strokes are not different than those with witnessed onset beyond 8 hours. Aghaebrahim A, Leiva-Salinas C, Jadhav AP, Jankowitz B, Zaidi S, **Jumaa M**, Urrea X, Amorim E, Zhu G, Giurgiutiu DV, Horev A, Reddy V, Hammer M, Wechsler L, Wintermark M, Jovin T. J Neurointerv Surg. 2015 Dec;7(12):875-80. doi: 10.1136/neurintsurg-2014-011316. Epub 2014 Oct 17
- 16- Is There a Genetic Correlation between Multiple Sclerosis and Cerebral Aneurysms? Albrekkan FM, Bachir S, Jumaa MA, Zaidi SF, Medhkour A World Neurosurg. 2016; 95:624.e1-624.e4. doi:10.1016/j.wneu.2016.04.027
- 17- Endovascular thrombectomy in the setting of aortic dissection. Reznik ME, Espinosa-Morales AD, **Jumaa MA**, Zaidi S, Ducruet AF, Jadhav AP. J Neurointerv Surg. 2016 May 19. pii: neurintsurg-2016-012397. doi: 10.1136/neurintsurg-2016-012397.
- 18- Stroke Care: Initial data from a county-based bypass protocol for patients with acute stroke. Zaid, S, Shawver J, Espinosa-Morales A, Salahuddin H, Tietjen G, Lindtrom D, Parquette B, Adams A, Korsnack A, **Jumaa MA**. J Neurointerv Surg- 2016 Jun 24
- 19- Mechanical thrombectomy of M1 and M2 middle cerebral artery occlusions. Salahuddin H, Ramaiah G, Slawski DE, Shawver J, Buehler M, Zaidi SF, **Jumaa MA**. J Neurointerv Surg. 2017 Jul 13. pii: neurintsurg-2017-013159. doi: 10.1136/neurintsurg-2017-013159.
- 20- Mechanical Thrombectomy for Middle Cerebral Artery Division Occlusions: A Systematic Review and Meta-Analysis. Salahuddin H, Espinosa A, Buehler M, Khuder S, Khan A, Tietjen G, Zaidi S · **Jumaa MA**. Intervent Neurol 2017;6:242-253
- 21- Streptococcus Mutans: A Potential Risk Factor in Recurrent Hemorrhagic Stroke. Mansour TR, Alam Y, Dahbour L, Alnemari A, **Jumaa M**, Schroeder JL. Cureus. 2017 May 19;9(5):e1264
- 22- Ischemic stroke due to retrograde thromboembolism during arteriovenous graft thrombectomy. Salahuddin H, Tietjen G, **Jumaa M**, Zaidi SF. J Vasc Access. 2017 Jul 29;0. doi: 10.5301/jva.5000766

- 23- Interhospital Transfer Prior to Thrombectomy is Associated with Delayed Treatment and Worse Outcome in the STRATIS Registry. Froehler MT, Saver JL, Zaidat OO, Jahan R, Aziz-Sultan MA, Klucznick RP, Haussen DC, Hellinger FR Jr, Yavagal DR, Yao TL, Liebeskind DS, Jadhav AP, Gupta R, Hassan AE, Martin CO, Bozorgchami H, Kaushal R, Nogueira RG, Gandhi RH, Peterson EC, Dashti SR, Given CA 2nd, Mehta BP, Deshmukh V, Starkman S, Linfante I, McPherson SH, Kvamme P, Grobelny TJ, Hussain MS, Thacker I, Vora N, Chen PR, Monteith SJ, Ecker RD, Schirmer CM, Sauvageau E, Abou-Chebl A, Derdeyn CP, Maidan L, Badruddin A, Siddiqui AH, Dumont TM, Alhajeri A, Taqi MA, Asi K, Carpenter JS, Boulos A, Jindal G, Puri AS, Chitale R, Deshaies EM, Robinson DH, Kallmes DF, Baxter BW, **Jumaa MA**, Sunenshine P, Majjhoo AQ, English JD, Suzuki S, Fessler RD, Delgado Almandoz JE, Martin JC, Mueller-Kronast NH; STRATIS Investigators . *Circulation*. 2017 Sep 24. pii: CIRCULATIONAHA.117.028920. doi: 10.1161/CIRCULATIONAHA.117.028920
- 24- Systematic Evaluation of Patients Treated With Neurothrombectomy Devices for Acute Ischemic Stroke: Primary Results of the STRATIS Registry. Mueller-Kronast NH, Zaidat OO, Froehler MT, Jahan R, Aziz-Sultan MA, Klucznick RP, Saver JL, Hellinger FR Jr, Yavagal DR, Yao TL, Liebeskind DS, Jadhav AP, Gupta R, Hassan AE, Martin CO, Bozorgchami H, Kaushal R, Nogueira RG, Gandhi RH, Peterson EC, Dashti SR, Given CA 2nd, Mehta BP, Deshmukh V, Starkman S, Linfante I, McPherson SH, Kvamme P, Grobelny TJ, Hussain MS, Thacker I, Vora N, Chen PR, Monteith SJ, Ecker RD, Schirmer CM, Sauvageau E, Abou-Chebl A, Derdeyn CP, Maidan L, Badruddin A, Siddiqui AH, Dumont TM, Alhajeri A, Taqi MA, Asi K, Carpenter J, Boulos A, Jindal G, Puri AS, Chitale R, Deshaies EM, Robinson DH, Kallmes DF, Baxter BW, **Jumaa MA**, Sunenshine P, Majjhoo A, English JD, Suzuki S, Fessler RD, Delgado Almandoz JE, Martin JC, Haussen DC; STRATIS Investigators. *Stroke*. 2017 Oct;48(10):2760-2768. doi: 10.1161/STROKEAHA.117.016456
- 25- Mechanical thrombectomy in elderly stroke patients with mild-to-moderate baseline disability. Slawski D.E, Salahuddin H, Shawver J, Kenmuir C, Tietjen G.E, Korsnack A, Zaidi S.F, & **Jumaa M**. *Interventional Neurology, Interv Neurol*. 2018 Apr;7(5):246-255.
- 26- Emergent carotid endarterectomy versus stenting in acute stroke patients with tandem occlusion. Slawski D.E, **Jumaa, MA**, Salahuddin H, Shawver J, Humayun M.J, Russell T, Seiwert T, Paolini D, Abbas J, Nazzal M, Tietjen G.E, Espinosa-Morales A., Korsnack A, and Zaidi S.F. *Journal of Vascular Surgery, J Vasc Surg*. 2018 Oct;68
- 27- Emergent Management of Tandem Lesions in Acute Ischemic Stroke: Analysis of the STRATIS Registry. Jadhav A, Zaidat, O, Liebeskind D, Yavagal D, Haussen D, Hellinger F, Jahan R, **Jumaa M**, Szeder V, Nogueira R, Jovin T. In Press, *Stroke* 2018
- 28- Impact of Balloon Guide Catheter Use on Clinical and Angiographic Outcomes in the STRATIS Stroke Thrombectomy Registry. Zaidat OO, Mueller-Kronast NH, Hassan AE, Haussen DC, Jadhav AP, Froehler MT, Jahan R, Ali Aziz-Sultan M, Klucznick RP, Saver JL, Hellinger FR Jr, Yavagal DR, Yao TL, Gupta R, Martin CO, Bozorgchami H, Kaushal R, Nogueira RG, Gandhi RH, Peterson EC, Dashti S, Given CA 2nd, Mehta BP, Deshmukh V, Starkman S, Linfante I, McPherson SH, Kvamme P, Grobelny TJ, Hussain MS, Thacker I, Vora N, Chen PR, Monteith SJ, Ecker RD, Schirmer CM, Sauvageau E, Chebl AB, Derdeyn CP, Maidan L, Badruddin A, Siddiqui AH, Dumont TM, Alhajeri A, Taqi MA, Asi K, Carpenter J, Boulos A, Jindal G, Puri AS, Chitale R, Deshaies EM, Robinson D, Kallmes DF, Baxter BW, **Jumaa M**, Sunenshine P, Majjhoo A, English JD, Suzuki S, Fessler RD, Delgado-Almandoz J, Martin JC, Liebeskind DS; STRATIS Investigators. *Stroke*. 2019 Mar;50(3):697-704. doi: 10.1161/STROKEAHA.118.021126.
- 29- Intraarterial Thrombolysis as Rescue Therapy for Large Vessel Occlusions. Zaidi SF, Castonguay AC, **Jumaa MA**, Malisch TW, Linfante I, Marden FA, Abraham MG, Chebl AB, Novakovic R, Taqi MA, Nogueira RG, Martin CO, Holloway WE, Mueller-Kronast N, English JD, Dabus G, Bozorgchami H, Xavier A, Rai AT, Froehler MT, Badruddin A, Nguyen TN, Yoo AJ, Shaltoni H, Janardhan V, Chen PR, Britz GW, Kaushal R, Nanda A, Gupta R, Zaidat OO. *Stroke*. 2019 Apr;50(4):1003-1006. doi: 10.1161/STROKEAHA.118.024442.

- 30- Recent Trends in Electively Treated Unruptured Intracranial Aneurysms. Salahuddin H, Siddiqui NS, Castonguay AC, Johnson M, Zaidi SF, **Jumaa MA**. Stroke Cerebrovasc Dis. 2019 Jul;28(7):2011-2017. doi: 10.1016/j.jstrokecerebrovasdis.2019.03.010. Epub 2019 Apr 12.
- 31- Monitored Anesthesia Care by Sedation-Trained Providers in Acute Stroke Thrombectomy. Slawski DE, Salahuddin H, Saju L, Shawver J, Korsnack A, Tietjen G, Papadimos TJ, Castonguay AC, Kung V, Burgess R, Zaidi SF, **Jumaa MA**. Front Neurol. 2019 Mar 28;10:296. doi: 10.3389/fneur.2019.00296. eCollection 2019.
- 32- Response by Castonguay et al to Letter Regarding Article "Intraarterial Thrombolysis as Rescue Therapy for Large Vessel Occlusions". Castonguay AC, **Jumaa MA**, Zaidi SF. Stroke. 2019 Jul;50(7):e218. doi: 10.1161/STROKEAHA.119.025820. Epub 2019 Jun 12.
- 33- Long-term implementation of a prehospital severity scale for EMS triage of acute stroke: a real-world experience. **Jumaa MA**, Castonguay AC, Salahuddin H, Shawver J, Saju L, Burgess R, Kung V, Slawski DE, Tietjen G, Lindstrom D, Parquette B, Korsnack A, Cole K, Afreen E, Bafna K, Zaidi SF. J Neurointerv Surg. 2019 Jul 2. pii: neurintsurg-2019-014997. doi: 10.1136/neurintsurg-2019-014997.
- 34- Insights into Intra-arterial Thrombolysis in the Modern Era of Mechanical Thrombectomy Journal. Castonguay AC, **Jumaa MA**, Zaidat OO, et al. Front. Neurol. 2019;10:1195.
- 35- Interventional Stroke Care in the Era of COVID-19. Salahuddin H, Castonguay AC, Zaidi SF, Burgess R, Jadhav AP, **Jumaa MA**. Front. Neurol. 2020;11:468.
- 36- Outcomes of treatment modalities for ruptured intracranial aneurysms based on age - A meta-analysis. Dawod G, Henkel ND, Salahuddin H, Castonguay AC, Koneru S, Mugge L, Khuder SA, Medhkour A, **Jumaa MA**. J Stroke Cerebrovasc Dis. 2020;29:105039.
- 37- Letter: COVID-19 Pandemic-The Bystander Effect on Stroke Care in Michigan. Pandey AS, Daou BJ, Tsai JP, Zaidi SF, Salahuddin H, Gemmete JJ, Oliver MJ, Singer J, Elder TA, Mbabuike N, Adel JG, Gujrati Y, Saleemi MA, Siddiqui FM, Elias AE, Rehman MF, Marin H, Chebl AB, Kole M, Wilseck JM, Kazmierczak CD, Mick JM, Majjhoo AQ, Naravetla BR, Rayes M, Luqman AW, Richards BF, Kelkar P, Burgess R, Thompson BG, Chaudhary N, Mazaris PA, Qahwash O, Razak MA, **Jumaa MA**; Michigan Stroke Treatment Improvement Collaborative (MISTIC). Neurosurgery. 2020;87:E397-E399.
- 38- Endovascular Thrombectomy for Pediatric Acute Ischemic Stroke: A Multi-Institutional Experience of Technical and Clinical Outcomes. Ravindra VM, Alexander M, Taussky P, Bollo RJ, Hassan AE, Scoville JP, Griauzde J, Awad AW, **Jumaa M**, Zaidi S, Lee JJ, Hafeez MU, Nascimento FA, LoPresti MA, Couldwell WT, Hetts SW, Lam SK, Kan P, Grandhi R. Neurosurgery. 2020 Aug 6;nyaa312. doi: 10.1093/neuros/nyaa312. Online ahead of print.
- 39- Neurothrombectomy for Acute Ischemic Stroke Across Clinical Trial Design and Technique: A Single Center Pooled Analysis. Jovin TG, Desai SM, Aghaebrahim A, Ducruet AF, Giutgiuyiu DV, Gross BA, Hammer M, Jankowitz BT, **Jumaa MA**, et al. Front Neurol. 2020 Sep 24;11:1047.
- 40- Intra-arterial Thrombolysis After Unsuccessful Mechanical Thrombectomy in the STRATIS Registry. Zaidi SF, Castonguay AC, Zaidat OO, Mueller-Kronast N, Liebeskind DS, Salahuddin H, and **Jumaa MA**. AJRN
- 41- Neurological Predictors of Clinical Outcomes in Hospitalized Patients With COVID-19. Salahuddin H, Afreen E, Sheikh IS, Lateef S, Dawod G, Daboul J, Karim N, Gharaibeh K, Al-Chalabi M, Park S, Castonguay AC, Assaly R, Safi F, Matal M, Sheikh A, Tietjen G, Malaiyandi D, James E, Ali I, Zaidi SF, Abdelwahed A, Kung V, Burgess R, **Jumaa MA**. Front Neurol. 2020 Oct 30;11:585944.
- 42- Safety of Low Dose Intravenous Cangrelor in Acute Ischemic Stroke: A Case Series. Salahuddin H, Dawod G, Zaidi SF, Shawver J, Burgess R, Jumaa MA. Front Neurol. 2021 Jun 4;12

- 43- Middle Cerebral Artery M2 Thrombectomy in the STRATIS Registry: **Jumaa M**, Castonguay A, Zaidi S, Ortega S. Accepted for Publication in Stroke.

STUDY COLLABORATOR

- 1- Chimowitz MI, Lynn MJ, Turan TN, et al. Design of the stenting and aggressive medical management for preventing recurrent stroke in intracranial stenosis trial. *J Stroke Cerebrovasc Dis.* 2011;20(4):357-368. doi:10.1016/j.jstrokecerebrovasdis.2011.05.001
- 2- Chimowitz MI, Lynn MJ, Derdeyn CP, et al. Stenting versus aggressive medical therapy for intracranial arterial stenosis [published correction appears in *N Engl J Med.* 2012 Jul 5;367(1):93]. *N Engl J Med.* 2011;365(11):993-1003. doi:10.1056/NEJMoa1105335
- 3- Saver JL, Jahan R, Levy EI, et al. SOLITAIRE™ with the intention for thrombectomy (SWIFT) trial: design of a randomized, controlled, multicenter study comparing the SOLITAIRE™ Flow Restoration device and the MERCI Retriever in acute ischaemic stroke. *Int J Stroke.* 2014;9(5):658-668. doi:10.1111/j.1747-4949.2012.00856.x
- 4- Kidwell CS, Jahan R, Gornbein J, et al. A trial of imaging selection and endovascular treatment for ischemic stroke. *N Engl J Med.* 2013;368(10):914-923. doi:10.1056/NEJMoa1212793
- 5- Derdeyn CP, Chimowitz MI, Lynn MJ, et al. Aggressive medical treatment with or without stenting in high-risk patients with intracranial artery stenosis (SAMMPRIS): the final results of a randomised trial. *Lancet.* 2014;383(9914):333-341. doi:10.1016/S0140-6736(13)62038-3
- 6- Saver JL, Goyal M, Bonafe A, et al. Solitaire™ with the Intention for Thrombectomy as Primary Endovascular Treatment for Acute Ischemic Stroke (SWIFT PRIME) trial: protocol for a randomized, controlled, multicenter study comparing the Solitaire revascularization device with IV tPA with IV tPA alone in acute ischemic stroke. *Int J Stroke.* 2015;10(3):439-448. doi:10.1111/ijs.12459
- 7- Saver JL, Goyal M, Diener HC; SWIFT PRIME Investigators. Stent-Retriever Thrombectomy for Stroke. *N Engl J Med.* 2015;373(11):1077. doi:10.1056/NEJMc1508744
- 8- Kwon HM, Lynn MJ, Turan TN, et al. Frequency, Risk Factors, and Outcome of Coexistent Small Vessel Disease and Intracranial Arterial Stenosis: Results From the Stenting and Aggressive Medical Management for Preventing Recurrent Stroke in Intracranial Stenosis (SAMMPRIS) Trial. *JAMA Neurol.* 2016;73(1):36-42. doi:10.1001/jamaneurol.2015.3145
- 9- Román LS, Menon BK, Blasco J, et al. Imaging features and safety and efficacy of endovascular stroke treatment: a meta-analysis of individual patient-level data [published correction appears in *Lancet Neurol.* 2018 Dec;17(12):e2-e3]. *Lancet Neurol.* 2018;17(10):895-904. doi:10.1016/S1474-4422(18)30242-4
- 10- Campbell BCV, Majoie CBLM, Albers GW, et al. Penumbra imaging and functional outcome in patients with anterior circulation ischaemic stroke treated with endovascular thrombectomy versus medical therapy: a meta-analysis of individual patient-level data [published correction appears in *Lancet Neurol.* 2019 Mar;18(3):e2]. *Lancet Neurol.* 2019;18(1):46-55. doi:10.1016/S1474-4422(18)30314-4

BOOK CHAPTERS

- 1- Endovascular Treatment of Extracranial Atherosclerotic Disease, *Neurointervention in the Medical Specialties, A Comprehensive Guide 2015.* Editors: Randall C. Edgell, Sean I. Savitz, John Dalfino.

- 2- Castonguay AC, Jumaa MA, Zaidi SF. Chapter 6: Intra-arterial Thrombolytics for Treatment of Acute Ischemic Stroke. Pg 61-69. Acute Stroke Management in the Era of Thrombectomy. Editors: Samaniego, E; Hassan D.
- 3- Slawski D and Jumaa MA. Vertebrobasilar insufficiency. Large Vascular and Endovascular Surgery: Clinical Diagnosis and Management. Editor: Muneir Nazzal

RESEARCH

Investigator-initiated Studies

- Social Determinants of Health in Stroke Pilot Study. Care Innovation and Community Improvement Program.
\$25,000
Role: Co-I
- Adjunctive intra-arterial tPA following mechanical thrombectomy: a safety and efficacy study. Genentech
\$400,000
Role: Co-I
- Triage of Acute Strokes Using a Rapid Arterial occlusion Evaluation Protocol in Rural and Urban Communities Registry (TRACER). Medtronic.
\$50,000
Role: Lead PI
- Clevidipine Infusion for Blood Pressure Management During and After Successful Mechanical Thrombectomy Chiesi
\$100,000
Role: Lead PI

Trials and External Studies

Active:

- Site Principal Investigator - December 2019 to present
Genentech- **TIMELESS**: A Phase III, Prospective, Double-Blind, Randomized, Placebo-Controlled Trial of Thrombolysis in Imaging-Eligible, Late-Window Patients to Assess the Efficacy and Safety of Tenecteplase.
- Site Principal Investigator- October 2020 to present
Medtronic-**EMBOLISE**- A multi-center, prospective, randomized, interventional, controlled, open label, adaptive design, Investigational Device Exemption (IDE) clinical trial of Middle Meningeal Artery (MMA) embolization for patients with symptomatic subacute or chronic subdural hematomas (SDH).
- Site Principal Investigator- March 2021 to present
Athersys- **MASTERS-2**: MultiStem® Administration for Stroke Treatment and Enhanced Recovery Study (MASTERS-2)
- Site Sub-Investigator - March 2019 to present
Biogen- **CHARM**: Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Multicenter, Phase 3 Study to Evaluate the Efficacy and Safety of Intravenous BIIB093 (Glibenclamide) for Severe Cerebral Edema following Large Hemispheric Infarction.
- Site Sub-Investigator - March 2020 to present
Zoll- **ReCCLAIM II**: REperfusion with Cooling in CerebraL Acute IscheMia II (RECCLAIM II): A Multicenter, Prospective, Randomized-Controlled Trial to Assess the Safety and Feasibility of Cooling as an Adjunctive Therapy to Thrombectomy and Reperfusion in Patients with Acute Cerebral Ischemia and Stroke.
- Site Sub- Investigator- October 2020 to present

MicroVention- **SOFAST**: SOFia Aspiration System as first line Technique

Completed:

- Site PI at Toledo Hospital: SWIFT- PRIME trial, STRATIS registry, RESTORE, ARAMIS, OPHEILIA
- Site PI at UTMC: POINT, ACTISMA trials
- Site Sub- I at Toledo Hospital: Brainsgate- Impact 24 trial
- Site Sub-I at UPMC between 2009 and 2012: IMS-3, MR-RESCUE, COSS, SAMMPRIS, CLOSURE, DEFUSE II, ICES- MISTIE, CREST.
- PI with salary support at UPMC 2009-2010: quantitative occlusive vascular disease study (QUOVADIS)
- Member of scientific committee: Gordie- Howe Initiative for stem cell therapy in traumatic brain Injury patients.

SCIENTIFIC JOURNAL Ad HOC REVIEWER

Journal of Neuroimaging, Society of Neuroimaging 2008-2011

Journal of Neurointerventional Surgery 2017-Present

Journal of Interventional Neurology 2017-2018

Frontiers in Neurology 2020-Present

CURRENT RESEARCH INTEREST

- Safety and Efficacy of different methods of sedation and blood pressure management during and after Mechanical Embolectomy in stroke.
- Stroke outcome and care quality.
- Stroke epidemiology.
- Cost effectiveness of stroke care.