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**FIRAS AL-ALI, M.D.**  
**CURRICULUM VITAE**

**PRESENT TITLES**

*OhioStroke (Summit Neuroendovascular Specialists, LLC)  
Neurointerventional Surgery*

**FOUNDER**

*Cygnus Medical LLC (Medical device company) Akron, Ohio. USA Since 2017*

*ECIS LLC (Medical artificial intelligence software company) Akron, Ohio. USA Since 2022*

**EDUCATION**

University of Damascus  
School of Medicine  
Maze Street, Damascus, Syria  
Doctor of Medicine, 1985

**CONTACT INFORMATION**

Firas Al-Ali, MD  
OhioStroke  
[www.ohiostroke.com](http://www.ohiostroke.com)  
[falali@OhioStroke.com](mailto:falali@OhioStroke.com)

## CURRICULUM VITAE

### FIRAS AL-ALI, M.D.

#### POSTGRADUATE TRAINING

- 01/01/00-7/31/01      **Clinical Fellowship in Neuro-Interventional Surgery**  
Interventional Neuroradiology  
INOVA Fairfax Hospital  
3300 Gallows Road  
Falls Church, VA 22042-3300  
Chief, Interventional Neuroradiology: J.J. Connors III, M.D.
- 07/01/96-6/30/98      **Clinical Fellowship in Neuroradiology**  
University of California San Francisco Medical Center  
Department of Radiology, Box 0628, Room L-371  
505 Parnassus Avenue, San Francisco, CA 94143-0628  
Fellowship Director: A. James Barkovich, M.D.  
Chief, Neuroradiology: William P. Dillon, M.D.
- 07/01/93-6/30/96      **Residency**  
**American Board of Radiology**  
Department of Radiology  
Medical University of South Carolina  
171 Ashley Avenue, Charleston, SC 29425  
Residency Director: R. I. Macpherson, M. D.  
Chairman, Radiology: Jeremy Young, M.D.
- 07/01/92-06/30/93      **Clinical Instructor of Pediatric Radiology**  
University of California San Francisco Medical Center  
Department of Radiology, Box 0628 Room L-372  
505 Parnassus Avenue, San Francisco, CA 94143-0628  
Chief, Pediatric Radiology: Charles A. Gooding, M.D.
- 09/01/86-06/30/91      **Residency**  
**French Board of Radiology**  
**Diplome Interuniversitaire de Specialite (DIS)**  
Radiologie Diagnostique, Universite Paris V  
D.I.S. de Radiodiagnostique  
Pavillon G. Boussy, C.H.U. Cochin  
27, rue du Faubourg Saint-Jacques  
75674 Paris Cedex 14. France

## CURRICULUM VITAE

### FIRAS AL-ALI, M.D.

#### PROFESSIONAL EXPERIENCE

- 05.01/2012- 01.01/2024 **Neurointerventional Surgery**  
*Cleveland Clinic - Akron General Hospital*  
1 Akron General Avenue, Suite 1510  
Akron, Ohio 44307
- 08/01/01- 04/30/2012 **Neurointerventional Surgery**  
Borgess Brain and Spine Institute  
Borgess Medical Center  
1541 Gull Road, Suite 200  
Kalamazoo, MI 49048
- 08/01/98-12/30/99 **Diagnostic Neuroradiology**  
Saint Joseph Hospital  
1100 W. Stewart Drive  
Orange, CA 92868
- 12/01/91-06/30/92 **Pediatric Radiology**  
Service de Radiologie Pediatrique  
Centre Hospitalier Du Havre  
BP. 24, 76083 Le Havre cedex. France.
- 01/01/90-11/30/91 **Pediatric Radiology**  
Service de Radiologie  
Centre Hospitalier Universitaire de Nice  
Hopital Cimiez, 4 Avenue Reine Victoria  
BP.179, 06003. Nice cedex 1. France.

#### AWARDS

- ⊕ Top Radiologist in the USA  
The Consumers Research Council of America, 2021
- ⊕ Top Radiologist in the USA  
The Consumers Research Council of America, 2007
- ⊕ Top Radiologist in the USA  
The Consumers Research Council of America, 2006
- ⊕ Award of Margulis Society Research  
University of California, San Francisco Medical Center, June 1997
- ⊕ Award of Excellence, Department of Radiology  
Medical University of South Carolina, June 1995

### CLINICAL TRIAL

**The CIS Prospective Study (Principal Investigator):** A multicenter clinical trial. 2016-2018  
<https://clinicaltrials.gov/> Identifier NCT02618031

### BOOKS

[http://www.frontiersin.org/books/Balloon\\_and\\_Stent\\_for\\_Ischemic\\_and\\_Hemorrhagic\\_Stroke\\_A\\_New\\_Trend\\_for\\_Stroke\\_Prevention\\_and\\_Managem/714](http://www.frontiersin.org/books/Balloon_and_Stent_for_Ischemic_and_Hemorrhagic_Stroke_A_New_Trend_for_Stroke_Prevention_and_Managem/714)

**PUBLISHER:** FRONTIERS MEDIA SA. **ISBN:** 978-2-88919-694-4

**F. AL-ALI MD;** Uflacker R. Embolization of AVM in the Pelvis. Teaching Atlas of Interventional Radiology, Diagnostic Therapeutic Angiography. Kadir editor. 1999; Page 398. (Book Chapter)

### EDUCATIONAL TRAINING VIDEOS AND PODCAST

- ⊕ Live webcast of aneurysm coiling, September 14, 2003 (First live coiling on the World Wide Web)  
<http://www.or-live.com/borgess/1122/>
- ⊕ Video Taping of Vertebroplasty; June 2006  
“[Vertebroplasty For General Practitioners and Patients](http://www.stryker.com/interventionalpain/prodsbyapp.htm)”<http://www.stryker.com/interventionalpain/prodsbyapp.htm>
- ⊕ PODCAST: On patient autonomy.  
<https://anchor.fm/elliott-davidson/episodes/10-000-Brains-A-Conversation-with-Dr--Firas-Al-Ali--Episode-38-e2a0sn3>

### PATENTS

US 10,939,831 B2

US 10,625,067 B2

US 11,376,408 B2

US 2022/0134078 A1

US 2022/0168554 A1

US 2023 18/141,745

## RESEARCH EXPERIENCE

- ✦ **Single Center Experience with Antiplatelet Therapy for the Treatment of Cervical Artery Dissection.** An investigator-initiated, retrospective study. Borgess Research Institute, 2011-2012.
- ✦ **A Review of Opening Disc Pressure during Discogram Procedures.** An investigator-initiated, retrospective study. Borgess Research Institute, 2010-2012.
- ✦ **Capillary Index Score: Rethinking Acute Ischemic Stroke Treatment Algorithm.** An investigator-initiated, retrospective study. Borgess Research Institute, 2010-2012. Presented at SIR CLOTS, Oct 2010 and UIC Neurology Grand Rounds, Dec 2010.
- ✦ **Stratification of Clinical Outcomes in Intracranial Revascularization: Minor vs. Major Stroke.** An investigator-initiated, retrospective study. Borgess Research Institute, 2009-Ongoing. Presented at ISC, Feb 2009; MCIR, Jun 2009 and UIC Neurology Grand Rounds, Jun 2009. In Press *AJNR*, scheduled for publication, August 2011.
- ✦ **PRET – Patients Prone to Recurrence after Endovascular Treatment.** A sponsored, prospective study. Principal Investigator. Borgess Research Institute, 2009-2011.
- ✦ **A prospective, consecutive series, multi-center study designed to collect long-term outcomes of the StaXx® FX Structural Kyphoplasty System.** A sponsored, prospective study. Principal Investigator. Borgess Research Institute, 2009-2011.
- ✦ **A review of the initial use of the StaXx® FX Structural Kyphoplasty System.** A sponsored, retrospective study. Principal Investigator. Borgess Research Institute, 2009-2011.
- ✦ **Vertebral Artery Ostium Atherosclerotic Plaque as a Potential Cause of Posterior Circulation Stroke.** An investigator-initiated, retrospective study. Borgess Research Institute, 2007-Ongoing. Early results presented at ASNR, Jun 2008; WFITN, Jul 2009 and NEIMS, Oct 2009.
- ✦ **A Post-Market Study of the Abbott Vascular Carotid Stent Systems and Embolic Protection Systems: Carotid Stenting for High Surgical Risk Patients; Evaluating Outcomes through the Collection of Clinical Evidence (“CHOICE”).** A sponsored, prospective study. Subinvestigator. Borgess Research Institute, Apr 2009-Ongoing.
- ✦ **Incidence of Adjacent Vertebral Fractures and Cement Distribution on Vertebroplasty Patient Outcomes.** An investigator-initiated, sponsor-supported retrospective study. Borgess Medical Center, 2008-2009. Published in *AJNR*, Nov-Dec 2009.
- ✦ **Stenting and Angioplasty with Protection in Patients at High-Risk for Endarterectomy; World Wide (“SAPPHIRE WW”).** A sponsored, prospective study. Subinvestigator. Borgess Research Institute, Nov 2007-Ongoing.
- ✦ **Carotid Stenting Capture II Study.** A sponsored, prospective study. Subinvestigator. Borgess Research Institute, spring 2006-Summer 2009.
- ✦ **Carotid Stenting Capture I Study.** A sponsored, prospective study. Subinvestigator. Borgess Research Institute, Fall 2004-Spring 2005.
- ✦ **Comparison of head MRI and head US in premature babies on ECMO, with clinical follow-up at three years of age.** A retrospective study. University of California San Francisco UCSF, 1997-1998. Presented at SPR, New Orleans, May 1998, Published in *Pediatric Research*, Apr 1998.
- ✦ **Early diagnosis of necrotizing enterocolitis in neonates, using oral dye, and CT scan HU of urine.** A prospective study. University of California San Francisco UCSF, 1992-1996. Published in *Radiology*, 1997.
- ✦ **Accuracy of abdominal ultrasound in early diagnosis of appendicitis in children.** A prospective study. Lernal Pediatric Hospital, 1990-1991. Published in *Revue d'Imagerie Medical*, 1993.

**PUBLICATIONS**

**AL-ALI F**, Solander S, Becke T, et al. The Capillary Index Score in Thrombectomy: Results from the Prospective, Multicenter CIS Study. Vol.14, No. 2, pp. 46-52, Published October 2023.

S Arustamyan, **F Al-Ali**, JJ Elias, JM Tomer. The Pipeline: Less is More, Slower is Better, and Smaller is Possible. American Journal of Neuroscience Research, January 29, 2019, Volume 2 | Issue 1

**AI-ALI F**, Berkhemer O, Yousman W, et al. The Capillary Index Score as a Marker of Viable Cerebral Tissue Proof of Concept. The Capillary Index Score in the MR CLEAN (Multicenter Randomized Clinical Trial of Endovascular Treatment for Acute Ischemic Stroke in the Netherlands). Stroke 2016; 47 -2286-2291.

**AI-ALI F**, Elias JJ, Filipkowski DE. Acute Ischemic Stroke Treatment, Part 2 Treatment "Roles of Capillary Index Score, Revascularization and Time". Front Neurol. 2015 Jun 1; 6: 117. doi: 10.3389/fneur.2015.00117.

**AI-ALI F**, Elias JJ, Filipkowski DE, Faber JE. Acute ischemic stroke treatment, part 1: patient selection "the 50% barrier and the capillary index score". Front Neurol. 2015 Apr 22; 6:83. doi: 10.3389/fneur.2015.00083.

**AI-ALI F**, Elias JJ, Tomsick TA, Liebeskind DS, Broderick JP; IMS Study Groups. Relative Influence of Capillary Index Score, Revascularization, and Time on Stroke Outcomes from the Interventional Management of Stroke III Trial. Stroke.2015 Jun; 46(6): 1590-4.

Farooq MU, **AI-ALI F**, Min J, Gorelick PB. Reviving Intracranial Angioplasty and Stenting "SAMMPRIS and beyond". Front. Neurol, 23 June 2014/ doi: 10. 3389/fneur.2014.00101

David S. Liebeskind, MD; Thomas A. Tomsick, MD; Lydia D. Foster, MS. Sharon D. Yeatts, PhD; Janice Carrozzella, MSN, NP, RT(R); Andrew M. Demchuk, MD; Tudor G. Jovin, MD; Pooja Khatri, MD; Ruediger von Kummer, MD; Rebecca M. Sugg, MD; Osama O. Zaidat, MD; Syed I. Hussain, MD; Mayank Goyal, MD; Bijoy K. Menon, MD; **Firas Al Ali, MD**; Bernard Yan, MD; Yuko Y. Palesch, PhD; Joseph P. Broderick, MD; for the IMS III Investigators. Collaterals at Angiography and Outcomes in the Interventional Management of Stroke (IMS) III Trial. Stroke.2014; 45:759-764.

**F. Al-Ali, MD**; Thomas A. Tomsick, MD; John J. Connors III, MD; James M. Gebel, MD; John J. Elias, PhD; Georges Z. Markarian, MD; Zein Al-Ali; Joseph P. Broderick, MD. "Capillary Index Score in the Interventional Management of Stroke Trials I and II". Stroke. 2014; 45: 1999- 2003.

**F.AL-ALI MD**; B.C. Perry MD; Spontaneous Cervical Artery Dissection: The Borgess Classification. Front. Neurol. 17 September 2013 | doi: 10.3389/fneur.2013.00133

**F. Al-Ali MD**, Jefferson A, Barrow T, et al. The capillary index score: rethinking the acute Ischemic stroke treatment algorithm. Results from the Borgess Medical Center Acute Ischemic Stroke Registry. Journal of NeuroIntervent Surg JNIS (2012): 10.1136

**F. AL-ALI MD**; BARROW T, DUAN L, JEFFERSON A, LOUIS S, LUKE K, MAJOR K, SMOKER S, WALKER S, YACOBOZZI M "VERTEBRAL ARTERY OSTIUM ATHEROSCLEROTIC PLAQUE AS A POTENTIAL SOURCE OF POSTERIOR

## CURRICULUM VITAE

### FIRAS AL-ALI, M.D.

CIRCULATION ISCHEMIC STROKE: RESULT FROM BORGESS MEDICAL CENTER VERTEBRAL ARTERY OSTIUM STENTING REGISTRY" *STROKE*. 2011; 42: 2544-2549.

**F. AL-ALI MD**; CREE T, HALL S, LOUIS S, MAJOR K, SMOKER S, WALKER S "How Effective Is Endovascular Intracranial Revascularization in Stroke Prevention? Result from Borgess Medical Center Intracranial Revascularization Registry" *AJNR Am J Neuroradiol* 2011 32: 1227-1231

**F. AL-ALI MD**; Cree T, Hall S, Louis S, Major K, Smoker S, Walker S. Predictors of Unfavorable Outcome in Intracranial Angioplasty and Stenting: A Direct Comparison "Result from Borgess Medical Center Intracranial Revascularization Registry" *AJNR Am J Neuroradiol* 2011 32: 1221-1226

**F. AL-ALI MD**; Barrow T, Luke K. Vertebroplasty: What is Important and what is not. *AJNR*: 2009; 30: 1835-39.

Gupta R, **F. AL-ALI MD**; Thomas A, Horowitz M, Barrow T, Vora N, Uchino K, Hammer M, Wechsler L, Jovin T. Safety, Feasibility and Short-Term Follow-Up of Drug Eluting Stent Placement in the Intra and Extracranial Circulation. *Stroke*. 2006; 37: 2562-2566

Marks MP; Wojak JC; **F.AL-ALI MD**; Jayaraman M; Marcellus MI; Connors JJ; Do HM. Angioplasty for symptomatic intracranial stenosis: clinical outcome. *Stroke*. 2006; 7:1016-20.

**F.AL-ALI MD**; Hendon A; Liepman M; Wisniewski J; Krinock M; Beckman K. Oligodendroglioma Metastatic to Bone Marrow. *AJNR*. 2005; 26: 2410-2414.

Khaghany K, **F. AL-ALI MD**; Spigelmyer T; Pimentel R; Wharton K. Efficacy and Safety of the Perclose Closer S Device After Neurointerventional Procedures: Prospective Study and Literature Review. *AJNR*. 2005; 26: 1420-1424.

Joelson E; Ruthrauff B; **F. AL-ALI MD**; Lindemann N; Sharp F. Dural Enhancement Associated with Temporal Arthritis. *Arch of Neurology*. 2000; 57: 119-22.

**F. AL-ALI MD**; Goldstein R; Leonard CH; Piecuch RE; Cooper BA; Charlton V; Barkovich AJ. Correlation of Neurologic Outcome with Head Ultrasound and Brain MRI in Full Term Infants Treated with ECMO 1193. *Pediatric Research – 1998 Abstracts the American Pediatric Society and The Society of Pediatric Research*. 1998; 43(4): 205.

Barkovich AJ; **F. AL-ALI MD**, Rowley HA, Bass N. Imaging Patterns of Neonatal Hypoglycemia. *AJNR*. 1998; 19: 523-528.

Rencken IO, Sola A; **F. AL-ALI M.D**; Solano JP; Goldberg HI; Cohen PA; Gooding CA. Necrotizing Enterocolitis: Diagnostic with CT Examination of Urine after Enteral Administration of Iodinated Water-soluble Contrast Material. *Radiology*. 1997; 205: 87-90.

**F.AL-ALI MD**; Macpherson RI; Biemann H; Otherson K. Wandering Liver: A Case Report and Review of the Literature. *Journal of Pediatric Radiology*. 1996; 27: 287.

**F.AL-ALI MD**; Gooding CA; Jacque CJ. Calcified Mass in Anterior Part of Mediastinum caused by Langerhans' Cell Histiocytosis. *American Journal of Radiology*. 1994; 162: 467-468.

**F.AL-ALI MD**; Higgins CB; Gooding CA. MRI of Tracheal and Esophageal Compression following Surgery for Congenital Heart Disease. *Journal of Computed Assisted Tomography*. 1994; 18: 39-42.

## CURRICULUM VITAE

### FIRAS AL-ALI, M.D.

Coussement A, **F. AL-ALI MD**, Coussement-Beylard N, Diane MC, Vala JS. Acute Appendicitis in Children: Evaluation with Ultrasound. *Revue d'imagerie Medicale*. 1993; 5:483-487.

**F.AL-ALI MD**; Gaussin G, Menard M, Devos AM, Coussement A. Wandering Liver in Child. *Revue d'Imagerie Medicale*. 1993; 5: 109-111.

## POSTER PRESENTATIONS

**F. AL-ALI MD**; "the CIS, in IMSIII" World Stroke Conference, WSC. October 2014. Istanbul, Turkey

**F. AL-ALI MD**; "the CIS, a method for better patient selection in intra-arterial acute ischemic stroke treatment" World Stroke Conference, WSC. October 2012. Brasilia, Brazil.

**F. AL-ALI MD**. Nemeth D, Louis S, Walker S. Clinical Outcome of Intra-arterial Treatment in Acute Ischemic Stroke: Chemical Thrombolysis vs Mechanical Thrombolysis. *MSU/KCMS 28<sup>th</sup> Annual Kalamazoo Community Medical Health and Sciences Research Day, Apr 14, 2010, Kalamazoo, MI*

**AL-ALI F**, Barrow T, Sciamanna M, Daniels T, Smoker S. Eighty-Three Vertebral Artery Ostium Stenting with Angiographic Follow Up: A Single Center Prospective Series. *ASNR 46<sup>th</sup> Annual Meeting, June 2-5, 2008, New Orleans, LA*.

**F. AL-ALI MD**; Reddy A, Barrow T, Sciamanna M. Feasibility and Safety of Intracranial Arteries Endovascular Re-Vascularization Angioplasty and Stenting in Patients with Symptomatic Atherosclerotic Stenosis. *The 9<sup>th</sup> Joint Session AANS/CNS Cerebrovascular Section/ASITN, Feb 17-20, 2006, Orlando, FL*

**F.AL-ALI MD**; Reddy A, Barrow T, Sciamanna M. Feasibility and Safety Middle Cerebral Artery Angioplasty in patients with Symptomatic Atherosclerotic Stenosis. *The 9<sup>th</sup> Joint Session AANS/CNS Cerebrovascular Section/ASITN, Feb 17-20, 2006, Orlando, FL*

**F.AL-ALI MD**; Ahah S. Primary Stenting of the Vertebral Artery Ostium for Symptomatic Stenosis a 36 cases presentation. *The 8<sup>th</sup> Joint Session AANS/CNS Cerebrovascular Section/ASITN, Feb 2-6, 2005, New Orleans, LA*

**F.AL-ALI MD**; Khaghary K. Efficacy and Safety of the Perclose S Devise Following Neurointerventional Procedures. *The 8<sup>th</sup> Joint Session AANS/CNS Cerebrovascular Section/ASITN, Feb 2-6, 2005, New Orleans, LA*

**F.AL-ALI MD**; Connors JJ. Blood Flow Improvement through Critical Stenosis During Intracranial Angioplasty Procedures with Adjunctive Abciximab Increases Procedural Safety. *ASNR 42<sup>nd</sup> Annual Meeting, May 5-11, 2004, Seattle, WA*



**ORAL PRESENTATIONS**

**AL-ALI F:** On behalf of the CIS Prospective Study investigators. "The result of the CIS prospective Study"

AANS/CNS JOINT CEREBROVASCULAR SECTION. Feb 4-5, 2019. Honolulu, Hawaii, USA.

**AL-ALI F,** Elias J, Marks M, Tomsick T, Broderick J." should we offer treatment for patients with CIS of 0?",

AANS/CNS JOINT CEREBROVASCULAR SECTION. Feb 10-11, 2014. San Diego, CA. USA.

**AL-ALI F;** Elias J; Tomsick T; Broderick J. The Capillary Index Score (CIS) and the IMS I, II: A tail of one marker and two trials "How we can design a positive trial for acute ischemic stroke intra-arterial Treatment. (AIS-IAT)" 12<sup>th</sup> Congress WFITN, Jun 29-Jul 3, 2013, Buenos Aires, Argentina.

**AL-ALI F.** The Capillary Index Score. The Catheter Lysis of Thromboembolic Stroke" CLOT" Meeting. Oct 2012. Dallas, TX.

**AL-ALI F.** The Capillary Index Score. The Catheter Lysis of Thromboembolic Stroke" CLOT" Meeting. Oct 2011. Dallas, TX.

**AL-ALI F,** Cree, T, Nemeth D, Louis S. Acute Ischemic Stroke Treatment: The Collateral Index. *University of Illinois-Chicago Neurology Grand Round, Dec 2, 2010, Chicago, IL.*

**AL-ALI F;** Cree T; Nemeth D; Louis S. Acute Ischemic Stroke Treatment: The Collateral Index. *The Catheter Lysis of Thromboembolic Stroke (CLOTS) Meeting. Oct 24-28, 2010, Dallas, TX.*

**AL-ALI F;** Yacobozi M; Barrow T. "Endovascular Therapy for Supra-Aortic Disorders – VAO Stenosis: Classification." *New Era International Multidisciplinary Sharing (NEIMS) meeting. Oct 22-24, 2009, Beijing, China.*

**AL-ALI F;** Yacobozi M; Barrow T. "Endovascular Therapy for Supra-Aortic Disorders – VAO Stenosis: Stenting and Treatment." *New Era International Multidisciplinary Sharing (NEIMS) meeting. Oct 22-24, 2009, Beijing, China.*

**AL-ALI F.** "Endovascular Intracranial Revascularization; an update." *Syrian American Medical Society (SAMS) Emerging Diseases: Global and Local Perspectives, Jul 6-9, 2009, Lattakia, Syria.*

**AL-ALI F;** Yacobozi M; Louis S; Luke K. "Recanalizing Chronically occluded Cerebral Arteries, a Report of 6 cases." 10<sup>th</sup> Congress WFITN, Jun 29-Jul 3, 2009, Montreal, Canada.

**AL-ALI F;** Yacobozi M; Barrow T. "Vertebral Artery Ostium Atherosclerotic Stenosis an important Cause of Posterior Circulation Stroke. Part I: the BUET Variable." 10<sup>th</sup> Congress WFITN, Jun 29-Jul 3, 2009, Montreal, Canada.

**AL-ALI F;** Yacobozi M; Barrow T. "Vertebral Artery Ostium Atherosclerotic Stenosis an important Cause of Posterior Circulation Stroke. Part II: Which Ostium to Stent." 10<sup>th</sup> Congress WFITN, Jun 29-Jul 3, 2009, Montreal, Canada.

## CURRICULUM VITAE

### FIRAS AL-ALI, M.D.

**AL-ALI F.** “Endovascular Intracranial Revascularization; an update.” *University of Illinois-Chicago Neurology Grand Round, Jun 25, 2009, Chicago, IL.*

**AL-ALI F.** “Endovascular Intracranial Revascularization; an update.” *7<sup>th</sup> Meeting of Croatian Interventional Radiologists with International Participation, Jun 5-7, 2009, Zagreb, Croatia.*

**AL-ALI F;** Calderon-Arnulphi M; Roumia M; Smoker S; Barrow T. “How safe is Intracranial Angioplasty and Stenting? Lessons learned from 188 Interventions.” *International Stroke Conference, Feb 17-20, 2009, San Diego, CA.*

**AL-ALI F;** Barrow T; Luke K; Kalpin K; Sciamanna M; Kocol K. “Bare Coils Are Sufficient Treatment for Small Non-ruptured Aneurysms.” *ASNR 46<sup>th</sup> Annual Meeting, Jun 2-5, 2008, New Orleans, LA.*

**AL-ALI F,** Kocol K, Barrow T, Sciamanna M, Major K, Luke K. Vertebroplasty: What’s Important and What’s Not?” *ASNR 46<sup>th</sup> Annual Meeting, Jun 2-5, 2008, New Orleans, LA.*

**AL-ALI F;** Barrow T; Sciamanna M. Lessons Learned from 146 Cases of Intracranial Revascularization: It Is Too Early for Randomized Trial. *ASNR 46<sup>th</sup> Annual Meeting, Jun 2-5, 2008, New Orleans, LA.*

**AL-ALI F;** Hopkins AC; Barrow T; Major K; Louis S; Luke K; Hopkins J. Does Vertebroplasty Increase the Likelihood of Adjacent Fracture. A Prospective Study on 212 patients. *ASNR 44<sup>th</sup> Annual Meeting, May 1-5, 2006, San Diego, CA*

**AL-ALI F;** Reddy A; Barrow T; Sciamanna M. Feasibility and Safety of Intracranial Arteries Endovascular Revascularization Angioplasty and Stenting in Patients with Symptomatic Atherosclerotic Stenosis. *The 9<sup>th</sup> Joint Session AANS/CNS Cerebrovascular Section/ASITN, Feb 17-20, 2006, Orlando, FL.*

Marks MP; Wojak JC; **AL-ALI F;** Jayaraman M; Marcellus MI; Connors JJ; Do HM. “Angioplasty for Symptomatic Intracranial Stenosis: Clinical Outcome Stroke.” *ASNR 43<sup>rd</sup> Annual Meeting, May 2005, Toronto, Canada.*

**AL-ALI F;** Gordon V; Yahia AM. Technical Feasibility, Safety, and Short-Term Outcome of slow inflation Elective Undersized Balloon Angioplasty of Medically Refractory Intracranial Symptomatic Stenosis. *The 8<sup>th</sup> Joint Session AANS/CNS Cerebrovascular Section/ASITN, Feb 2-6, 2005, New Orleans, LA*

### INVITED SPEAKER

- ⊕ Stroke TianTan international conference, and First China Stroke conference “Acute Ischemic Stroke treatment: the Capillary Index Score, Time and outcome, a new look” July 2015, Beijing, China.
- ⊕ 10<sup>th</sup> Meeting of Croatian Interventional Radiologists, with international participation, “Endovascular Intracranial Revascularization: an update.” April 2015, Trakoscan Castle, Croatia.
- ⊕ Stroke Tian Tan international conference “Endo Vascular Acute Ischemic Stroke, an update Treatment” July 2013, Beijing, China.
- ⊕ 9<sup>th</sup> Meeting of Croatian Interventional Radiologists, with international participation,
- ⊕ “Endovascular Intracranial Revascularization: an update.” April 2013, Trakoscan Castle Croatia.

## CURRICULUM VITAE

### FIRAS AL-ALI, M.D.

- ✦ Stroke Tian Tan international conference “Endo Vascular Acute Ischemic Stroke Treatment” July 2011, Beijing, China.
- ✦ 8<sup>th</sup> Meeting of Croatian Interventional Radiologists, with international participation, “Endovascular Intracranial Revascularization: an update.” Jun 5-7, 2011, Zagreb, Croatia.
- ✦ SIR 2011 Catheter Lysis of Thromboembolic Stroke (CLOTS) Meeting, “Acute Ischemic Stroke Treatment: The Collateral Index.” Oct 23-26, 2011, Dallas, TX.
- ✦ UIC Neurology Grand Round, “Acute Ischemic Stroke Treatment: The Collateral Index.” Dec 2, 2010, Chicago, IL.
- ✦ SIR 2010 Catheter Lysis of Thromboembolic Stroke (CLOTS) Meeting, “Acute Ischemic Stroke Treatment: The Collateral Index.” Oct 24-28, 2010, Dallas, TX.
- ✦ New Era International Multidisciplinary Sharing (NEIMS), “Endovascular Therapy for Supra-Aortic Disorders - VAO stenosis: Classification.” Oct 22-24, 2009, Beijing, China.
- ✦ New Era International Multidisciplinary Sharing (NEIMS), “Endovascular Therapy for Supra-Aortic Disorders - VAO Stenosis: Stenting and Treatment.” Oct 22-24, 2009, Beijing, China.
- ✦
- ✦ Syrian American Medical Society (SAMS) Emerging Diseases: Global & Local perspectives, “Endovascular Intracranial Revascularization: an update.” Jul 6-9, 2009, Lattakia, Syria.
- ✦ UIC Neurology Grand Round, “Endovascular Intracranial Revascularization: an update.” Jun 25, 2009, Chicago, IL.
- ✦ 7<sup>th</sup> Meeting of Croatian Interventional Radiologists, with international participation, “Endovascular Intracranial Revascularization: an update.” Jun 5-7, 2009, Zagreb, Croatia.
- ✦ Neuroscience Symposium 2008, Borgess Medical Center, “Dizziness and Posterior Circulation: New Treatment Option.” Oct 2008, Kalamazoo, MI.
- ✦ Open Heart Hospital, Damascus Medical School, “Intracranial Stenting and Angioplasty: What Is New?” Feb 2008, Damascus, Syria.
- ✦ St Joseph Neuro Conference, “Intracranial Stenting and Angioplasty, What Is New?” Nov 23, 2007, St. Joseph, MI.
- ✦ Beijing Neurological Society, “Intracranial Stenting, Is It the Prime Time?” Dec 26, 2006, Beijing, China.
- ✦ Boston Scientific Neurovascular National Sales Meeting, “WingSpan Stent: Tricks of the Trade.” Jan 2006, Palm Springs, FL.
- ✦ 2<sup>nd</sup> Annual Meeting of ASITN, “Medical Stroke Prevention.” Aug 2005, Hawaii.
- ✦ 2<sup>nd</sup> Annual Meeting of ASITN, “Plavix versus Aggronex.” Aug 2005, Hawaii.
- ✦ 3<sup>rd</sup> ASITN Practicum, “Ischemic Stroke and Bone Fracture: What is Similar and what is Different?” May 2005, Toronto, Canada.
- ✦ 1<sup>st</sup> Annual Meeting of ASITN, “CT Scan Signs of Reperfusion Brain Injury Following Carotid Stenting.” Aug 2004, Boca Raton, FL.
- ✦ 1<sup>st</sup> Annual Meeting of ASITN, “Instructor for Carotid Stenting Course” Aug 2004, Boca Raton, FL.
- ✦ 1<sup>st</sup> Stroke Symposium, Borgess Medical Center, “Stroke Treatment and Prevention.” May 2003, Kalamazoo, MI.
- ✦ Joint session AANS/ASITN, “The INR Suite as a Critical Care Environment.” Feb 2003, Phoenix, AZ.
- ✦ Nuts and Bolts of Stroke Therapy, “Non-enhanced head CT in Hyper acute Stroke.” Jan 2003, Miami, FL.
- ✦ Neuroscience Symposium 2002, Borgess Medical Center, “Spine Imaging.” Sep 2002, Kalamazoo, MI.
- ✦ Cardiac Symposium 2002, Borgess Medical Center, “Intra Cranial Angioplasty and Stenting.” May 2002, Kalamazoo, MI.
- ✦ Neuroscience Symposium 2001, Borgess Medical Center, “Stroke Prevention and Treatment.” Sep 2001, Kalamazoo, MI.
- ✦ Society of Cardiovascular and Interventional Radiology (SCVIR) Annual Meeting, “Emergency Therapy of Stroke During a Procedure.” Mar 2001, San Antonio, TX.

## CURRICULUM VITAE

### FIRAS AL-ALI, M.D.

- ⊕ Meet the Experts III: Treatments of Cardiac and Vascular Diseases, Inova Fairfax Hospital, "Intra-arterial Thrombolysis." Dec 2000, Falls Church, VA.
- ⊕ Meet the Experts III: Treatments of Cardiac and Vascular Diseases, Inova Fairfax Hospital, "Angioplasty of Cerebral Arteries." Dec 2000, Falls Church, VA.
- ⊕ Southern California Nasal Sinus Center Symposium, "Rhino Sinusitis." Oct 1999, Irvine, CA.
- ⊕ UCSF Neuroradiology Conference, MRI Physics, "To EPI or Not to EPI, that is the Question." Apr 1998, San Francisco, CA.
- ⊕ Radiology Resident Teaching Conference, "The Birth of Syringomyelia." Oct 1997, San Francisco, CA.
- ⊕ UCSF Medical Student Lecture, "Introduction to Neuroradiology." Jun 1997, San Francisco, CA.
- ⊕ UCSF Neuroradiology Conference, MRI Physics, "FLAIR." Apr 1997, San Francisco, CA
- ⊕ UCSF Neuroradiology Conference, "Inner Ear Abnormalities." Oct 1996, San Francisco, CA.
- ⊕ UCSF Regular Lectures for Radiology Residents, Various topics. Jul 1996-Jun 1998, San Francisco, CA.
- ⊕ Medical University of South Carolina Radiology Grand Round, "A Tale of Two Tumors." March 1994, Charleston, SC.
- ⊕ Medical University of South Carolina Regular Lectures for Medical Students' Core Curriculum Rotation in Radiology, Various topics. Jul 1993-Jun 1996, Charleston, SC.
- ⊕ UCSF Regular Students' Core Curriculum Rotation in Radiology, Various topics. Jul 1992-Jun 1993, San Francisco, CA.

### CERTIFICATION

- ⊕ IMLC Ohio LOQ September 2023
- ⊕ Certificate of Added Qualifications (**CAQ**) in Neuroradiology, Nov 1999, Recertification, Dec 2010
- ⊕ American Board of Radiology (**ABR**), Board Certification, Jun 1996, Recertification, Dec 2010
- ⊕ Federal Licenser Examination (**FLEX**), Diplomat, Jun 1993
- ⊕ Test of English as Second Language (**TOFEL**). Jan 1992
- ⊕ French Board of Radiology (**DIS**), Jun 1991
- ⊕ Foreign Medical Graduate Exam in Medical Science (**FMGEMS**) Part I, Basic Science, Jul 1991
- ⊕ Foreign Medical Graduate Exam in Medical Science (**FMGEMS**) Part II, Clinical Science, Jul 1986
- ⊕ Advanced Cardiac Life Support (**ACLS**) Certificate
- ⊕ Drug Enforcement Agency (**DEA**) Certificate # BA3976442

### MEDICAL LICENSURE

- ⊕ Ohio Medical License (Active) # 35.098956
- ⊕ Virginia Medical License (Active) # 010224776
- ⊕ Texas Medical License (Active) # T4698
- ⊕ Connecticut Medical License (Active) # 64537
- ⊕ Michigan Medical License (inactive) #4301078901
- ⊕ California Medical License (inactive) #A 055783
- ⊕ South Carolina Medical License (inactive) #17854
- ⊕ Hawaii Medical License (inactive) #9990

### MEMBERSHIPS

- ⊕ American Society of Neuro-Interventional Surgery (*senior member*)
- ⊕ World Federation of Interventional and Therapeutic Neuroradiology (WFITN)