

University of Pittsburgh
School of Medicine
CURRICULUM VITAE

BIOGRAPHICAL

Name: Mohamed (Mo) F. Doheim, MD, PhD, FRCP
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EDUCATION and TRAINING

2012-2014	Secondary Education, Science & Biology Major, Egypt.
2014-2021	M.D., Faculty of Medicine, Alexandria University, Alexandria, Egypt.
2016-2018	Research Associate & Team Leader, Online Research Club (ORC), Nagasaki, Japan.
2017-2018	Graduate Certificate, Clinical Research Training Program, Harvard Medical School, Boston, MA, USA.
2017-2018	Research Trainee, Alexandria Clinical Research Centre, Faculty of Medicine, Alexandria University, Egypt.
2019-2020	Remote Research Trainee in Neurology, Johns Hopkins University School of Medicine, Baltimore, MD, USA.
2021 –2022	Clinical Intern and House Officer, Alexandria University Hospitals, Alexandria University, Alexandria, Egypt.
2022-2024	Post-Doctoral Clinical Research Fellow, UPMC Stroke Institute, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA.
2024-2026	PhD "Beyond One-Size-Fits-All in Acute Ischemic Stroke: From Data-Driven Approaches to Personalized Clinical Decision-Making", Department of Neurology, Maastricht University, Maastricht, The Netherlands.
2025-2026	NIH StrokeNet Fellow, UPMC Stroke Institute, Department of Neurology, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA.
2025-2025	NSF I-Corps Regional Course, The U.S. National Science Foundation, Cornell Research & Innovation, and the University at Buffalo, 2025
2026-2026	National Institute for Neurological Disorders and Stroke (NINDS) Clinical Trials Methodology Course (CTMC), USA.
2026-Now	Master of Data Science (MDS), University of Pittsburgh, PA, USA.

APPOINTMENTS and POSITIONS

Primary Appointments:

2026-Present Assistant Professor of Neurology (Clinical Research), UPMC Stroke Institute, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA.

Joint and Secondary Appointments:

2025-Present Primary Manager and Co-Investigator, DUSK: Combined Thrombectomy for Distal MediUm Vessel Occlusion StroKe Multicenter Trial, UPMC Stroke Institute, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA.

2025- Present Founding Co-Director and Principal Investigator, NeuroPrecision Lab (<https://neuroprecisionlab.org/>), UPMC Stroke Institute, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA.

2026- Present Chief Executive Officer, Horus NeuroTechnologies LLC (Pitt-licensed Startup specialized in digital solutions and clinical decision support systems for acute neurological disorders), PA, USA.

Previous Appointments:

2025-2026. NIH StrokeNet Fellow and Member of Acute Stroke Working Group (ASWG), UPMC Stroke Institute, Department of Neurology, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA.

2025-2026 Faculty Instructor (Clinical Research), UPMC Stroke Institute, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA.

2020-2022 Chief Executive Officer, Imhotep Research Clinic, Alexandria, Egypt.

2017 – 2019 Founder and Instructor, Alexandria Medical Research School (AMRS), Alexandria, Egypt.

CERTIFICATION and LICENSURE

Licensures/Boards:

- Egyptian Medical License Examination, Alexandria, Egypt, 2022
- The American Board of Artificial Intelligence in Medicine (ABAIM), 2025

Continuing Development Activities:

- NIH Clinical Center Six-month Online Course: Introduction to Principles and Practice of Clinical Research, 2016-2017
- NIH Web-based Training Course (Protection of Human Research Participants), 2016
- Good clinical practices (GCPs) guidelines for performing clinical trials from the NIDA Clinical Trials Network, 2017
- Thinking Critically: Interpreting Randomized Clinical Trials, Stanford University School of Medicine, 2017
- Ten weeks of MedStat, Statistics in Medicine online course from Stanford University, 2017
- ESO-ESSO-ESTRO Multidisciplinary Oncology Course, Poznan, Poland, 2018

- International Brain Research Organization School on Neuroscience and Neurological Disorders Research and Practice, American University of Cairo, Cairo, Egypt, 2018
- Bioinformatics Workshop and using "R studio, American University of Cairo, Cairo, Egypt. 2018
- Data Scientist Track via Python (26 courses), DataCamp, 2019
- Online Alzheimer's Disease and Hypertension in the Elderly, Harvard Medical School, 2015
- IBRO-MENA Conference and School on Bridging the Disparity Gap in Genetic Research of Parkinson's Disease and Other Neurodegenerative Conditions, American University of Cairo, Cairo, Egypt, 2021
- Fundamentals of Clinical and Translational Science (FunCaTS), Center for Clinical and Translational Sciences, Mayo Clinic, 2021
- MDS-UPDRS Training Program, The International Parkinson and Movement Disorder Society, 2020
- Master Peer-reviewing Course at Publon academy, 2022
- CITI Program course (Responsible Conduct of Research, Biomedical Human Subjects Research, COI PHS Regulated Course, GCP for Clinical Trials with Investigational Drugs and Medical Devices [U.S. FDA Focus], Privacy & Information Security), 2022
- The PhD training courses (Research Ethics and Integrity, Open Science, and Science Communication), 2025
- NSF I-Corps Regional Course, The U.S. National Science Foundation, Cornell Research & Innovation, and the University at Buffalo, 2025
- The Clinical Trials Methodology Course (CTMC), funded by the National Institute for Neurological Disorders and Stroke (R25NS138633), 2026

MEMBERSHIP in PROFESSIONAL and SCIENTIFIC SOCIETIES

- Full Membership, Sigma Xi Honor Society
- Member, American Neurological Association (ANA)
- Member, American Heart Association (AHA) and Stroke Council
- Member, Society of Vascular and Interventional Neurology (SVIN)
- Member, American Academy of Neurology (AAN)
- Member, Harvard Alumni Association (HAA)

PROFESSIONAL ACTIVITIES

Peer Review Activities:

- **Grants:**
 - The Swiss National Science Foundation (SNSF) – 2025
- **Manuscripts:**
 - Peer-reviewed +150 manuscripts for +25 journals, including Stroke (AHA), Annals of Neurology, Journal of Neurology, Neurosurgery and Psychiatry (JNNP), Scientific Reports, and Annals of Medicine among others.

- **Editorships and Editorial Boards:**
 - Guest Associate Editor, Frontiers Journals in Neurology, Medicine, and Stroke [Lead Editor of [Advancing Precision Medicine in Acute Stroke Care: Personalized Treatment Strategies and Outcomes](#)]
 - Editorial Board Member, International Journal of Medical Students
 - Editorial Board Member, Neurology and Therapy Journal
- **Teaching:**
 - Delivered over 1000 hours of instruction across 15+ courses and workshops on clinical research, biomedical statistics, evidence-based medicine, writing, and critical appraisal.
 - Served as lead instructor for national and faculty-level programs, including:
 - Imhotep Clinical Research Program (30+ hours, 11 sessions)
 - AMSA Research Wave (2 editions, 40+ attendees each)
 - AMRS Clinical Research Cycle (2 waves, up to 120 attendees)
 - Conducted specialized sessions for organizations such as IFMSA, QSRA, and EST, reaching audiences of up to 100+ participants.
 - Online speaker for multiple sessions on study design and research integrity, 2021.
 - Mentor for peer-review training via Publons Academy (2021).

HONORS AND AWARDS

- Elected Fellow, Royal College of Physician (FRCP), London, UK, 2026.
- Young Investigator Travel Grant Award, International Stroke Conference of the American Heart Association 2024.
- Annual Meeting Poster Award, Abstract of Distinction, Cerebrovascular SIG Lecture, American Neurological Association Annual Meeting 2025.
- NIH/NINDS StrokeNet Fellowship, UPMC Stroke Institute, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA, 2025
- Travel Grant Award and Abstract of Distinction, American Neurological Association Annual Meeting 2024.
- Medtronic Clinical Research Fellowship Award, UPMC Stroke Institute, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA, 2023 and 2024
- In appreciation for being a Judge and panelist, IJMS World Conference of Medical Student Research (WCMSR), 2022.
- Finalist, the Inaugural SVInnovation Challenge, Society of Vascular and Interventional Neurology Annual Meeting, 2022
- Trainee Travel Grant Award, Society of Vascular and Interventional Neurology Annual Meeting, November 2022
- Best Student Presentation Award, Egyptian Vascular Summit, Alexandria, Egypt, 2020.
- First place winner, the Best Presentation Team Award for Neuro-detective case, International Brain Research Organization (IBRO), American University of Cairo, 2018.
- Two full scholarships to attend the School of Neuroscience, organized by the International Brain Research Organization (IBRO) in Cairo, 2018 and 2020.

- A full scholarship for Clinical Oncology training at Poznan University Hospitals in Poland, 2018.
 - Scholarship, Dubai Harvard Foundation for Medical Research (DHFMR) to attend Harvard research training program, November 2017.
 - First Place Winner for the Best Student Research Paper at the 14th Annual Conference of the Egyptian Association of Advancement of Medical Basic Sciences (EAMBS), 2017
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RESEARCH FOCUS

My research centers on advancing individualized care in acute ischemic stroke by integrating clinical trial evidence, big data analytics, and artificial intelligence (AI). I aim to move beyond one-size-fits-all approaches to optimize treatment selection, procedural strategies, and stroke systems of care.

Key Areas of Contribution:

- **Endovascular Therapy Optimization:**

Investigating heterogeneity of treatment effect (HTE) in distal and medium vessel occlusions (DMVO) and posterior circulation strokes using machine learning and advanced statistical modeling to guide personalized interventions.

- **AI-Enabled Stroke Systems:**

Leading implementation studies of AI-driven triage platforms to improve workflow efficiency, reduce treatment delays, and promote equitable access to EVT.

- **Clinical Trial Leadership:**

Primary Manager and Co-Investigator for the multicenter DUSK Trial (DMVO thrombectomy), with additional roles in BOLT, Tenecteplase Time-Window Extension, and FcγRIIIa Platelet Expression studies.

- **Innovation & Translational Research:**

Holder of provisional patents:

- Intracranial stent design for neurovascular intervention.
- AI-powered stroke management platform for real-time decision support.
- Copyrights to several clinical decision support tools for acute neurological disorders and trial recruitment.

- **Global Impact & Collaboration:**

- Contributor to high-impact publications in The Lancet, Annals of Neurology, Neurology, and Stroke, including landmark studies such as VERITAS, ATLAS-ER, and GBD.
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PUBLICATIONS, PRESENTATIONS AND MEDIA

- **Peer-Reviewed Publications (Mohamed F Doheim - Google Scholar: *Equal First Authorship, Selected List since 2022 from 180+)**
- 1. **Doheim MF**, Mohammaden MH, Abdelhamid H, Olive-Gadea M, Rodrigo-Gisbert M, Requena M, Fifi JT, Siegler JE, Ortega-Gutierrez S, Abdalkader M, Alaraj A, Hu W, Nguyen TN, Haussen DC, Nogueira RG. Individualized Treatment in Distal and Medium Vessel Occlusion Stroke Using a Validated Explainable Counterfactual Treatment Estimation Model. *Ann Neurol*. 2026 Jan 28. doi: 10.1002/ana.78168. Epub ahead of print. PMID: 41603297.
- 2. **Doheim MF**, Starr M, Bhatt NR, Rocha M, Al-Bayati AR, Sultany A, Romero C, Kenmuir CL, Henry S, Nogueira RG. Impact of an artificial intelligence–driven triage system on workflow and transfer efficiency: stratified analysis of 4548 admissions to four thrombectomy hubs receiving transfers from sixty spokes. *J Neurol Neurosurg Psychiatry*. 2026. doi: 10.1136/jnnp-2025-337903.
- 3. **Doheim MF**, Al-Qudah AM, Singh R, Bhatt NR, Rocha M, Wechsler LR, Ma G, Silva GS, Martins SC, Tao C, Hao J, Tang Y, Hu W, Schwamm LH, Nguyen TN, Nogueira RG. Exploring Between-Study Heterogeneity in Extended-Window IV Thrombolysis for Acute Ischemic Stroke: A Meta-Analysis of 18 Randomized Controlled Trials. *Neurology*. 2026 Aug 11;107(3):e218331. doi: 10.1212/WNL.0000000000218331. Epub 2026 Jul 20. PMID: 42475651.
- 4. Nogueira RG, Jovin TG, Lansberg MG, Haussen DC, Jadhav AP, Brown S, Ribo M, Martins SC, Mont'Alverne FJ, Hill MD, Goyal M, **Doheim MF**, Mocco JD, Liebeskind DS, Heit JJ, Marks MP, Albers GW; AURORA Collaborators. Time to Treatment in Stroke Thrombectomy and Outcomes in the Extended Time Window: A Meta-Analysis. *Neurology*. 2026 Aug 11;107(3):e218113. doi: 10.1212/WNL.0000000000218113. Epub 2026 Jul 20. PMID: 42475646.
- 5. Lima JC*, **Doheim MF***, Nogueira CCS, Sen S, Nogueira RG. From Gums to Brain: Unveiling the Hidden Inflammatory Connection Between Periodontal and Cerebrovascular Diseases. *Stroke*. 2026 Mar 9. doi: 10.1161/STROKEAHA.125.053382. Epub ahead of print. PMID: 41797699. **Equally contributed*
- 6. Bhatt NR, Al-Qudah AM, Bielanin J, Musunur S, Martin-Gill C, Guyette FX, **Doheim MF**, Starr MT, Rocha M, Al-Bayati AR, Nogueira RG. Prehospital Trauma Labeling Delays Acute Stroke Reperfusion: A Matched-Pair Analysis. *Stroke*. 2026 Apr;57(4):e101-e103. doi: 10.1161/STROKEAHA.126.055131. Epub 2026 Mar 23. PMID: 41871189.
- 7. Mir O, Al Matairi A, Nguyen D, Sarraj A, Dmytriw AA, Siddiqui AH, Grandhi R, Dolia JN, Haussen DC, Al-Bayati AR, Nogueira RG, Eby B, Alaraj A, Bushnaq S, Burkhardt JK, Srinivasan V, Masoud H, Sangha N, Lee A, Ashouri Y, Farooqui I, Alderazi YJ, Ogola G, Akkihal K, Beltagy A, Duncan KR, Li YL, Przepiorka L, Shoraka O, Yelam T, **Doheim MF**, Heitsch L, Abou-Mrad T, Suppakitjanusant P, Scott K, Begum M, AlMajali M, Al-Shaibi F, Zhang Z, Pekyi-Boateng P, Siddu M, Khasawneh M, Adegoke M, Vijil M, Akouri H, Ali Z, Zaidat O, Ezzeldin M. RAPID-LC: rapid evidence-to-practice uptake of large core thrombectomy across a stroke consortium. *J Neurol*. 2026 May 26;273(6):343. doi: 10.1007/s00415-026-13866-2. Erratum in: *J Neurol*. 2026 Jul 9;273(8):450. doi: 10.1007/s00415-026-13989-6. PMID: 42189238.

8. Bhatt NR, Addanki RND, Achanti SK, Al-Qudah AM, **Doheim MF**, Wechsler L, Lee JS, Nogueira RG. Gray zones in acute stroke reperfusion: bridging, distal medium vessel occlusion, and extended-window thrombolysis. *J Neurointerv Surg*. 2026 Jul 16;jnis-2026-025623. doi: 10.1136/jnis-2026-025623. Epub ahead of print. PMID: 42463243.
9. Batista S, Dolia JN, Grossberg J, Nogueira R, Ortega-Gutierrez S, Sheth S, Alqudah A, Yelam T, Nascimento Martins P, Al-Bayati AR, **Doheim MF**, Rios Rocha L, Cespedes J, Cruz-Criollo L, Brito A, Le NM, Azeem HM, Samaha JN, Haussen DC. Impact of reperfusion on thrombectomy outcomes in patients with pre-stroke disability. *Front Neurol*. 2026 Jul 1;17:1821598. doi: 10.3389/fneur.2026.1821598. PMID: 42459851; PMCID: PMC13368995.
10. Ma L, Jacobs RC, Agarwal P, **Doheim MF**, Al-Bayati AR, Nogueira RG, Lang MJ, Gross BA. The CSDH Grading Scheme for Middle Meningeal Artery Embolization: Stratified Risk of Surgical Rescue. *Neurosurgery*. 2026 Jul 9. doi: 10.1227/neu.0000000000004156. Epub ahead of print. PMID: 42423595.
11. Wei L, Fu Y, Huang K, Pan L, Chen R, Yan Z, Hu W, Li Z, Xu H, Ling W, Lei Q, Li H, Chen L, Zhang F, Li S, Zheng C, Wu J, Zhang M, Liu D, Pu J, Peng G, Zhang G, Li Y, Chen L, Liao G, Yu L, Chen F, Li X, Guo Z, Li M, Dai Z, Hao Y, Duan Y, Qiu Z, Liu C, Yi T, **Doheim MF**, Zhao Z. Endovascular Treatment in Subtypes of Posterior Large Vessel Occlusion: A Pooled Analysis From 2 Registries. *Stroke Vasc Interv Neurol*. 2026 Feb 24;6(2):e002093. doi: 10.1161/SVIN.125.002093. PMID: 41815307; PMCID: PMC12959435.
12. Bhatt NR, Al-Qudah AM, Martin-Gill C, Guyette FX, **Doheim MF**, Rocha LR, Dermigny K, Patterson R, Ans A, Kaur H, Starr MT, Rocha M, Al-Bayati AR, Nogueira RG. Direct Transport to a Thrombectomy Center Accelerates Acute Stroke Reperfusion Therapies in Nonurban Settings. *J Am Heart Assoc*. 2026 Jan 6;15(1):e044213. doi: 10.1161/JAHA.125.044213. Epub 2025 Dec 30. PMID: 41467370.
13. Nogueira, R. G., ... **Doheim, M. F.**, et al. (2025). Endovascular therapy for acute vertebrobasilar occlusion (VERITAS): a systematic review and individual patient data meta-analysis. *The Lancet*.
14. Karamchandani RR, Wolman DN, Bielinski TM, Goyal N, Rhoten JB, Jayaraman MV, Sidebottom CT, Gross BA, Al-Bayati AR, **Doheim MF**, Tobin MK, Chinthala A, Gajjar A, Mascitelli J, Webb MR, Burkhardt JK, Scott KW, Srinivasan V, Tonetti D, Koneru M, Altschul DJ, Vaishnav D, Multani S, Theofanis T, Ares WJ, Sone JY, Zand R, Bahrami S, Li J, Defilipp G, Strong D, Torabi R, Moldovan K, Kline KE, Schirmer CM, Nogueira RG, Paul AR, Bohnstedt BN, Hendrix P. Basilar Artery Occlusion Stroke Managed With Tenecteplase Versus Alteplase Before Endovascular Treatment (BAO-TNK). *Ann Clin Transl Neurol*. 2025 Nov 14. doi: 10.1002/acn3.70240. Epub ahead of print. PMID: 41236051.
15. Schwarz, G..... **Doheim, M. F.**, et al. (2025). Contrast-Associated Acute Kidney Injury After Thrombectomy for Ischemic Stroke: Prognostic Impact and CAN-REST Predictive Score. *Neurology*.
16. **Doheim, M. F.**, et al. (2025). Direct Endovascular Therapy vs. Bridging Therapy in Acute Ischemic Stroke Due to M2 Segment Occlusion of the Middle Cerebral Artery: An Inverse Probability Treatment Weighting Analysis from the MR CLEAN Registry. *Stroke*.

17. **Doheim, M. F.**, et al. (2025). Adjunctive ThromboLytics After Successful Endovascular Reperfusion (ATLAS-ER): A Systematic Review and Meta-Analysis of Randomized Controlled Trials. *Annals of Neurology*.
18. **Doheim, M. F.**, et al. (2025). Association of Anesthesia Strategies with Outcomes in Endovascular Treatment for Distal and Medium Vessel Occlusions: A Propensity Score-Matched Analysis of the MR CLEAN Registry and Meta-analysis. *European Stroke Journal*.
19. Knapen, R.*, **Doheim, M. F.***, Audebert, H. J., Mont'Alverne, F., et al (2025). Intravenous thrombolysis prior to endovascular treatment in basilar artery occlusions: A patient-pooled analysis of four randomized controlled trials. *Cardiovascular and Interventional Radiology*. Advance online publication. *co-first author
20. **Doheim, M. F.**, et al. (2025). Meta-Analysis of Randomized Controlled Trials on Intravenous Thrombolysis in Minor Acute Ischemic Stroke. *Neurology*.
21. **Doheim, M. F.**, Bhatt, N., Al-Bayati, A. R., Baron, J.-C., & Brainer Clares Andrade, J. (2025). Advancing precision medicine in acute stroke care: Personalized treatment strategies and outcomes. *Frontiers in Medicine*, 12.
22. Wolman, D., Karamchandani, R. R., Hemmer, S., Bielinski, T. M., Goyal, N., Rhoten, J. B., Jayaraman, M. V., Sidebottom, C. T., Gross, B., Al-Bayati, A., **Doheim, M.**, et al (2025). Tenecteplase versus alteplase for first-pass reperfusion in basilar artery occlusion stroke thrombectomy. *Annals of Neurology*. Advance online publication.
23. Ma L, **Doheim MF**, Al-Bayati AR, Nogueira RG, Lang MJ, Gross BA. Surgical Rescue and Hematoma Resorption Rate in Octogenarians and Nonagenarians Undergoing Middle Meningeal Artery Embolization for Chronic Subdural Hematoma. *World Neurosurgery*. 2025 Oct 10:124556.
24. Karamchandani, R., Wolman, D., Bielinski, T. M., Goyal, N., Rhoten, J. B., Jayaraman, M. V., Sidebottom, C. T., Gross, B., Al-Bayati, A., Doheim, M., et al (2025). Basilar artery occlusion stroke managed with tenecteplase versus alteplase before endovascular treatment. *Annals of Clinical and Translational Neurology*. Advance online publication.
25. Katano, T, **Doheim, M. F.**, et al. (2025). NIHSS at 24 hours is a Strong Predictor of Outcomes after Thrombectomy in Vertebrobasilar Occlusion. *Neurosurgery*.
26. Nogueira, R. G., **Doheim, M. F.**, et al. (2024). Mode of onset modifies the effect of time to endovascular reperfusion on clinical outcomes after acute ischemic stroke: An analysis of the DAWN trial. *Annals of Neurology*.
27. Bhatt NR, Al-Qudah AM, Martin-Gill C, Guyette FX, **Doheim MF**, Rocha LR, Dermigny K, Patterson R, Ans A, Kaur H, Starr MT, Rocha M, Al-Bayati AR, Nogueira RG. Direct Transport to a Thrombectomy Center Accelerates Acute Stroke Reperfusion Therapies in Nonurban Settings. *J Am Heart Assoc*. 2025 Dec 30:e044213. doi: 10.1161/JAHA.125.044213. Epub ahead of print. PMID: 41467370.
28. Wolman, D., Karamchandani, R. R., Bielinski, T., Kline, K., Goyal, N., Rhoten, J., Jayaraman, M., Sidebottom, C., Gross, B. A., Al-Bayati, A. R., **Doheim, M.**, et al. (2025). Early reperfusion in basilar artery occlusion stroke managed with tenecteplase versus alteplase before endovascular treatment. *Therapeutic Advances in Neurological Disorders*. Advance online publication.

29. Li, W.*, **Doheim, M. F.***, et al. (2025). Endovascular treatment for acute posterior circulation tandem occlusions: Insights from the BASILAR and PERSIST registries. *Journal of Stroke*.
30. Mohammaden, M. H.*, **Doheim, M. F.***, et al. (2025). Balloon guide catheter impact on angiographic and clinical outcomes in distal medium vessel occlusion stroke thrombectomy. *Journal of NeuroInterventional Surgery*.
31. Al-Bayati, A. R., **Doheim, M. F.**, et al. (2025). Feasibility of emergent single-step intracranial self-expanding stent deployment using over-the-wire coronary balloons in intracranial atherosclerosis-related large vessel occlusion thrombectomy. *Journal of NeuroInterventional Surgery*.
32. Mahat, B. C., **Doheim, M. F.**, et al. (2025). Emboguard Balloon Guide Catheter in Stroke Thrombectomy: Procedural Insights and Outcomes (P12-13.020). *Journal of NeuroInterventional Surgery*.
33. Samaniego, E., ... **Doheim, M. F.**, et al. (2025). Super large bore catheter in the treatment of large vessel occlusions: Initial multicenter experience. *Journal of NeuroInterventional Surgery*.
34. Bhatt, N. R., Martin-Gill, C., Al-Qudah, A., **Doheim, M. F.**, et al. (2024). Acquisition of prehospital stroke severity scale is associated with shorter door-to-puncture times in patients with prehospital notifications transported directly to a thrombectomy center. *Journal of NeuroInterventional Surgery*. Published Online First: 18 September 2024. <https://doi.org/10.1136/jnis-2024-022122>.
35. Nogueira, R. G., **Doheim, M. F.**, et al. (2024). Distal medium vessel occlusion strokes: Understanding the present and paving the way for a better future. *Journal of Stroke*.
36. Mohammaden, M. H., **Doheim, M. F.**, et al. (2024). Anesthesia modality in endovascular treatment for distal medium vessel occlusion stroke: Intention-to-treat propensity score-matched analysis. *Journal of NeuroInterventional Surgery*.
37. Rautalin, I., Volovici, V., Stark, B. A., Johnson, C. O., Kaprio, J., Korja, M., ... **Doheim, M. F...** & Chattu, V. K. (2025). Global, Regional, and National Burden of Nontraumatic Subarachnoid Hemorrhage: The Global Burden of Disease Study 2021. *JAMA neurology*.
38. GBD 2019 Stroke Collaborators (**Doheim, M. F.**). (2024). Global, regional, and national burden of stroke and its risk factors, 1990–2021: A systematic analysis for the Global Burden of Disease Study 2021. *The Lancet Neurology*.
39. Nogueira, R. G., ... **Doheim, M. F.**, et al. (2023). Higher procedural volumes are associated with faster treatment times, better functional outcomes, and lower mortality in patients undergoing endovascular treatment for acute ischemic stroke. *Annals of Neurology*.
40. **Doheim, M. F.**, Hagrass, A. I., Elrefaey, M., Al-Bayati, A. R., Bhatt, N. R., Lang, M., ... & Nogueira, R. G. (2023). Intracranial stenting versus aggressive medical therapy for symptomatic intracranial stenosis: A meta-analysis of multicenter randomized controlled trials and an expert assessment of the current data. *Interventional Neuroradiology*.
41. **Doheim, M. F.**, Hagrass, A. I., Elrefaey, M., Al-Bayati, A. R., Bhatt, N. R., Lang, M., ... & Nogueira, R. G. (2023). From therapeutic nihilism to armamentarium: A meta-analysis of randomized clinical trials assessing safety and efficacy of endovascular therapy for acute large ischemic strokes. *Interventional Neuroradiology*.

42. **Doheim, M. F.,*** Elfil, M., *Ghaith, H. S.*, Aboutaleb, P. E., Romeo, D., Salem, M. M., ... & Nogueira, R. G. (2023). Transradial versus transfemoral access for mechanical thrombectomy: A systematic review and meta-analysis. *Stroke: Vascular and Interventional Neurology*.
43. Ma, L., Hoz, S. S., **Doheim, M. F.**, et al. (2024). Non-opacification of frontal and parietal branches after MMA embolization: A radiographic benchmark. *World Neurosurgery*.
44. Particles, Liquids, and Antiplatelets: Restarting antiplatelets on post-intervention day 3 or later is associated with improved outcomes after particle embolization. *Neurosurgery* (2024).
45. Ma, L., Hoz, S. S., **Doheim, M. F.**, et al. (2024). Middle meningeal artery embolization for “trial-ineligible” chronic subdural hematomas. *Neurosurgery*.
46. Steinmetz, J. D., Seher, K. M., Schiess, N., Nichols, E., Cao, B., Servili, C., ... **Doheim, M. F.**, et al. (2024). Global, regional, and national burden of disorders affecting the nervous system, 1990–2021: A systematic analysis for the Global Burden of Disease Study 2021. *The Lancet Neurology*.
47. **Doheim, M. F.**, & Hagrass, A. I. (2024). Not too late to intervene? A meta-analysis of 13 studies evaluating the association of endovascular therapy with clinical outcomes in stroke patients presenting beyond 24 hours. *medRxiv*.
48. Malik, K., Nogueira, R. G., **Doheim, M. F.**, et al. (2023). Bailout technique for entangled stent retriever and carotid stent during tandem large vessel occlusion endovascular therapy. *Interventional Neuroradiology*.
49. Rios Rocha, L., Kayyali, M. N., Mahat, B. C., Al-Qudah, A. M., **Doheim, M. F.**, Al-Bayati, A. R., ... & Rocha, M. Association of renal biomarkers with fast progressor phenotype and related outcomes in anterior circulation large vessel occlusion stroke. *Frontiers in Neurology*, 15, 1475135.
50. Avan, A., Feigin, V. L., Bennett, D. A., Steinmetz, J. D., Hachinski, V., Stranges, S., **Doheim, M. F.** & Sahebkar, A. (2024). The burden of neurological conditions in north Africa and the Middle East, 1990–2019: a systematic analysis of the Global Burden of Disease Study 2019. *The Lancet Global Health*.
51. Malik K, Nogueira RG, **Doheim MF**, et al. (2023). Bailout technique for entangled stent retriever and carotid stent during tandem large vessel occlusion endovascular therapy. *Interventional Neuroradiology*.
52. Nogueira, R. G., Etter, K., Nguyen, T. N., Ikeme, S., Wong, C., Frankel, M., **Doheim MF ...** & Khanna, R. (2023). Changes in the care of acute cerebrovascular and cardiovascular conditions during the first year of the covid-19 pandemic in 746 hospitals in the USA: retrospective analysis. *BMJ medicine*, **2**(1).
53. Sobeeh, M. G., Benmelouka, A., Metwally, E., Abuhassira, M. J., Abdeljalil, A. M., Nasr, S. A., ... & **Doheim, M. F.** (2024). Altered brain function and structure in carpal tunnel syndrome: a systematic review and meta-analysis of structural and functional brain imaging. *Brain Structure and Function*, 1-16.
54. Mohammaden, M. H., **Doheim, M. F.**, Elfil, M., Al-Bayati, A. R., Pinheiro, A., Nguyen, T. N., ... & Nogueira, R. G. (2022). Direct to Angiosuite Versus Conventional Imaging in Suspected Large Vessel Occlusion: A Systemic Review and Meta-Analysis. *Stroke*, 10-1161.
55. Hagrass, A. I., Elsayed, S. M., **Doheim, M. F.**, Mostafa, M. A., Elfil, M., Al-Kafarna, M., ... & Al-Mufti, F. (2024). Mobile Stroke Units in Acute Ischemic Stroke: A

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134. **Doheim, M. F.** General anesthesia vs. Conscious sedation for endovascular treatment in patients with anterior and posterior circulation acute ischemic stroke: a meta-analysis of seven randomized clinical trials (1616, **ESOC 2023** <https://journals.sagepub.com/doi/epub/10.1177/23969873231169660>)
135. Hagrass, A., Almaghary, B., Ali, A. A., Elgammal, M., Al-kafarna, M., Hamdallah, A., ... & **Doheim, M. F.** (2022). Antiplatelets Versus Anticoagulants in Cervical Artery Dissection: A Meta-analysis (P16- 10.007).
136. **Doheim, M. F.**, Hagrass, A. I., Al-kafarna, M., Mostafa, M. A., Elfil, M., Elsayed, S. M., ... & Al-Mufti, F. (2023). Abstract Number-153: Mobile stroke units in acute ischemic stroke: A comprehensive meta-analysis of nineteen controlled trials. *Stroke: Vascular and Interventional Neurology*, 3, e12580.
137. **Doheim, M. F.**, Mostafa, M. A., Elfil, M., & Kamal, A. (2023). Abstract Number-204: Robotics in Neuro-Endovascular Field: Back to the Future. *Stroke: Vascular and Interventional Neurology*, 3, e12629
138. **Doheim, M. F.**, Nourelden, A. Z., Fathallah, A. H., Zedan, E. M., Soliman, M. A. E. A., Elkhrashy, M. N., ... & Nogueira, R. G. (2023). Abstract Number-52: Stem Cell Therapy for Ischemic Stroke: A Meta-Analysis of 18 Studies including 724 Patients. *Stroke: Vascular and Interventional Neurology*, 3, e12485.
139. Hagrass, A., Al-kafarna, M., Fayoud, A., Hamdallah, A., Almaghary, B., Elgammal, M., ... & **Doheim, M. F.** (2022). Mobile Stroke Units in Acute Ischemic Stroke: A Network Meta-analysis (S35. 007).
140. Mohammaden, M. H., Elfil, M., **Doheim, M. F.**, Pinheiro, A. C., Al- Bayati, A.R., Haussen, D. C., & Nogueira, R. G. (2021). Abstract 1122-000223: Direct to Angiography Suite versus Conventional Imaging in Suspected Large Vessel Occlusion Strokes: A Meta- Analysis. *Stroke: Vascular and Interventional Neurology*, 1, e12025
141. **Doheim, M. F.**, & Mostafa, M. (2021). Abstract 1122-000197: Carotid-Cavernous Fistula: Does Transcranial Duplex Worth Revisiting?. *Stroke: Vascular and Interventional Neurology*, 1, e12080.

▪ **Media Publications**

142. PhD: <https://www.youtube.com/live/JayN4re6fxU?si=g41e8tJrQGppbV13>
143. Understanding the re-canalization paradox in vertebrobasilar occlusions (https://www.vjneurology.com/video/7-iv_jqzzry-understanding-the-re-canalization-paradox-in-vertebrobasilar-occlusions/)
144. Intravenous tirofiban as an adjunct to EVT in posterior circulation strokes with tandem lesions (<https://www.vjneurology.com/video/1ljmb1fw5jk-intravenous-tirofiban-as-an-adjunct-to-evt-in-posterior-circulation-strokes-with-tandem-lesions/>)
145. The impact of age and collateral status on outcomes of vertebrobasilar artery occlusion (https://www.vjneurology.com/video/q_3-qffmtig-the-impact-of-age-and-collateral-status-on-outcomes-of-vertebrobasilar-artery-occlusion/)

146. Futility in Survival: Predictors of 90-Day Poor Outcomes (mRS 4-5) After Endovascular Thrombectomy for Ischemic Stroke (<https://www.vumedi.com/video/futility-in-survival-predictors-of-90-day-poor-outcomes-mrs-4-5-after-endovascular-thrombectomy-for/>)
147. Intravenous Thrombolysis in Minor Acute Ischemic Stroke: A Therapeuticum Dubium (<https://www.vumedi.com/video/intravenous-thrombolysis-in-minor-acute-ischemic-stroke-a-therapeuticum-dubium/?t=339>)
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COMMUNITY ENGAGEMENT & PUBLIC HEALTH INITIATIVES

- Project Lead, Orientation for Medical and Pharmacy Students – Medical Syndicate (2017): Designed and led a program to support new students in adapting to university life and academic expectations.
- Co-Founder & Core Team Member, Kafer-eldwar Future Doctors (KFD) – Medical Syndicate: Initiated and sustained a community-based team focused on health education and social awareness in Kafr-eldwar.
- Participated in health education and screening campaigns for diabetes and hypertension at Kafr-eldwar General Hospital and Alexandria Faculty of Medicine (2015–2017).
- Trainer, Emergency Medicine & First Aid Course – Medical Syndicate, Kafr-eldwar (2017).
- Co-Founder, Egyptian Medical Research School (EMRS)– Developed an online learning platform that leverages social media and other digital tools to introduce students to fundamental medical research principles. The platform is accessible nationwide, providing students from all schools with equal opportunities to engage in medical research education, regardless of their institution (2019-2021)
- Delivered public talks addressing health and social challenges affecting students and the broader community (2017-2022).