

Dr GILBERT GRAVINO**November 2025**

MD (Melit.), BSc (Hons.) (Melit.), FRCR, FHEA, EDiNR, EDNI, EDiNR

Nationality: Maltese, British

Languages: Maltese, English, Italian

Email: gilbert.gravino@nhs.net

Professional Registrations

- General Medical Council, UK (GMC no. 7509437)
- Medical Council, Malta (Reg no. 8030)
- Council for the Professions Complementary to Medicine, Malta (Radiography no. 70)

Employment and Training

Consultant Interventional and Diagnostic Neuroradiology (2023-Present)

- The Walton Centre NHS Foundation Trust, Liverpool
- Alder Hey Children's Hospital, Liverpool (Honorary contract)

Fellow Interventional and Diagnostic Neuroradiology (2021-2023)

- The Walton Centre NHS Foundation Trust, Liverpool
- Alder Hey Children's Hospital, Liverpool (Honorary contract)

General Radiology Registrar (2017-2021)

North-West Mersey School of Radiology, Liverpool – Core Radiology Training at Aintree University Hospital, Royal Liverpool University Hospital, Alder Hey Hospital, Liverpool Heart and Chest, Whiston and St Helens Hospitals, and Arrowe Park Hospital.

Foundation Doctor - Neurosurgery, Neurology, Neurocritical care, ENT (2016-2017)

- Addenbrooke's Hospital Cambridge UK - Neurosurgery, Neurocritical care, ENT

Foundation Doctor - General Surgery, Acute Medicine, Geriatric Medicine (2015-2017)

- Ipswich Hospital UK - General Surgery, Geriatric Medicine, Acute Medicine

Elective Medical Trainee - Neurology and Neurosurgery (2014)

- National Hospital of Neurology and Neurosurgery, London, UK

Elective Medical Trainee - Neurosurgery (2013)

- John Radcliffe Hospital, Oxford, UK

Diagnostic Radiographer (2011-2013)

- Mater Dei Hospital Malta - general, emergency, theatre, ward, CT radiography and quality assurance

Elective Radiography Trainee – Medical Imaging and Ultrasonography (2009)

- Academic Medical Centre, Netherlands

Qualifications

- European Diploma in Interventional Neuroradiology (EDiNR by ESNR) (2025)
- European Diploma in Neurointervention (ENDI by ESMINT) (2024)
- European Diploma in Neuroradiology (EDiNR by ESNR) (2024)
- Fellow of the Higher Education Academy (FHEA) (2022)
- Fellow of the Royal College of Radiologists (FRCR) (2021)
- MD Doctor of Medicine and Surgery (University of Malta) (2015)
- BSc (Hons.) Radiography (First Class) (University of Malta) (2010)

PhD Candidate in Biomedical Engineering at Keele University, UK. Title: In vitro modelling exploring technical and haemodynamic aspects of mechanical thrombectomy in acute ischaemic stroke.

Prizes, awards, and scholarship

- Keele University Postgraduate Symposium Best Oral Presentation Runner Up (Faculty of Medicine and Health Sciences) - 'In vitro experimentation on endovascular revascularisation for acute ischaemic stroke' (2024)

- UK Radiology Congress (UKRC) Bursary Award (2017)
- 1st Prize in Radiology image interpretation competition by Radiology Recipes (2016); competition included 50 doctors on a radiology course.
- KSU Research and Opportunity Fund (University of Malta) for studies at the National Hospital of Neurology and Neurosurgery, UK (2014)
- 2nd Prize at the World University Anatomy Challenge by Doctors Academy (2012); competition included 195 medical students from 95 universities representing 32 countries.
- 1st in Class in B.Sc. (Hons.) Radiography (2010)
- Socrates ERASMUS Scholarship for Ultrasonography studies at InHolland University, Netherlands (2009)

Publications

Books

- **Gravino G.** (2019). *A systematic approach to review computed tomography imaging: for novice radiologists in training*. Independently published.

Peer-reviewed publications

- Dinama E, **Gravino G (first co-author)**, Nayak S, Yang Y, Roffe C. Cerebrovascular Pressure Restoration Rates during Recanalisation with Aspiration and Stent-Retriever Thrombectomy for Acute Ischaemic Stroke: An in Vitro Study. *Journal of Neuroendovascular Therapy*. 2025.;19(1).
- Abdelsalam N, Wen D, Pullicino R, **Gravino G**, Babatola F, Borg D, Aamir s, Hannan CJ, Chandran A, Puthuran M. Unruptured middle cerebral artery bifurcation aneurysms: long-term outcomes of endovascular techniques from an 'endovascular-first' policy center. *Neuroradiology*. 2025; ahead of print.
- **Gravino G**, Dinama E, Nayak S, Yang Y, Roffe C. Preventing Embolization to a New Vascular Territory: An in Vitro Study Exploring Alternative Techniques for Dual-Stent-Retriever Cerebral Thrombectomy. *Journal of Neuroendovascular Therapy*. 2025.;19(1):2025-0035.
- Aamir S, **Gravino G**, Abdelsalam N, Chandran A. A novel approach to nickel allergy in neurointerventional surgery: Peripheral arterial stent testing protocol to guide the choice of cerebral aneurysm treatment. *Interventional Neuroradiology*. 2025:15910199251372502.
- **Gravino G**, Aamir S, Dietvorst S, Bhatt K, Robertson F, Parks C, Craig R, Healey A, Hennigan D, Mallucci C, Chandran A, Puthuran M. Vein of Galen aneurysmal malformation treatment with direct open surgical access of the transverse sinus and transvenous selective endovascular embolization: a hybrid approach. *Journal of Neurointerventional Surgery*. 2025:jnis-2025-023490.
- **Gravino G**, Aamir S, Abdelsalam N, Babatola F, Jenkinson MD, Olubajo F, Carleton-Bland N, Chandran A. Middle meningeal artery embolisation for chronic subdural haematoma - a UK single-centre experience. *British Journal of Neurosurgery*. 2025:1-10.
- **Gravino G**. Haptic feedback in robotic endovascular neurosurgical intervention: a necessity or a commodity? *Interventional Neuroradiology Journal*. 2025:15910199241304851.
- **Gravino G**, Chandran A, Pullicino R. Rescue snaring of Woven EndoBridge (WEB) with direct retrieval from aneurysm sac. *Interventional Neuroradiology*. 2025 Mar 25:15910199251328525.
- **Gravino G**, Abdelsalam N, Patel J, Aamir S, Babatola, Chandran A. Benign versus sinister aetiologies underlying basal cistern subarachnoid haemorrhage: case reports with pictorial review. *Journal of Medical Case Reports*. 2025;19:166.
- Wen DW, Ayre J, Puthuran M, Maliakal P, Masri S, Pullicino R, Smith A, Babatola F, **Gravino G**, Abdelsalam N, Nejadhamzeeigilani H, Chandran A. Treatment of Intracranial Aneurysms with the FRED X Flow Diverter Stent: Mid-term Angiographic and Safety Results. *Clinical Neuroradiology*. 2025;35(2):379-384.
- **Gravino G**, Srivastava S, Yang Y, Rai S, Roffe C, Nayak S. A Review of Acute Ischemic Stroke Imaging Applications in Patient Selection for Cerebral Thrombectomy. *SM Journal of Radiology*. 2024; 7 (9).
- **Gravino G**, Patel J, Ratneswaren T, Craven I, Chandran A. Diagnostic and interventional neuroradiology training in the UK: a national trainee survey. *Clinical Radiology*. 2024;79(6):e854-e867.
- **Gravino G**, Jakobek W, Nayak S, Yang Y, Ranjbar J, Roffe C. Correspondence on 'Comparison of balloon guide catheter versus non-balloon guide catheter for mechanical thrombectomy in patients with distal medium vessel occlusion' by Orscelik *et al*. *Journal of Neurointerventional Surgery*. 2024:jnis-2023-021256.

- **Gravino G**, Pullicino R, Puthuran M, Edwards Y, Yousaf J, Chavredakis E, Chandran A. Simultaneous bilateral application of the Scepter mini balloon microcatheter for occlusion of ethmoidal dural arteriovenous fistulas. *World Neurosurgery* X. 2023;21:100261.
- Puthuran M, **Gravino G (first co-author)**, Babatola F, Pullicino R, Masri S, Biswas S, Chapot R, Chandran A. Primary endovascular embolisation of intracranial arteriovenous malformations (AVM) with an intent to cure – A single centre experience. *Neuroradiology*. 2023.
- **Gravino G**, Samaha S, Patel J, Babatola F, Chandran A. Computed Tomography (Neuro)angiography (CTA) protocols for ischaemic and haemorrhagic strokes: a regional evaluation and technical note from a tertiary neuroscience centre. *Clinical Radiology*. 2023.
- Jakobek W, **Gravino G**, Nayak S, Yang Y, Ranjbar J, Roffe C. (2023). The effect of distal aspiration catheter position on collateral flow in mechanical thrombectomy - an *in vitro* study. *Interventional Neuroradiology*. 2023;28:15910199231201518.
- Aydin K, Puthuran M, Onal Y, Barburoglu M, Chandran A, Berdikhojayev M, **Gravino G**, Emre Senturk Y, Aygun S, Velioglu M, Sencer S. The angiographic and clinical follow-up outcomes of the wide-necked and complex intracranial aneurysms treated with LVIS EVO assisted coiling. *Neurosurgery*. 2023;92(4):827-836.
- **Gravino G**. The pioneering past and cutting-edge future of interventional neuroradiology. *Interventional Neuroradiology*. 2022: 15910199221130234.
- **Gravino G**, Masri S, Chandran A, Puthuran M. (2022). Management of WEB device migration and mal-position in endovascular treatment of cerebral aneurysms. *Interventional Neuroradiology*. 15910199221122857.
- **Gravino G**, Pullicino R, Chandran A, Puthuran M. (2022). Reducing radiation exposure in neurointervention through dedicated training on the biplane angiographic system. *Clinical Radiology*, 77(9); 684-688.
- **Gravino G**, Caruana-Finkel L. (2019). Abortion and methods of reproductive planning: the views of Malta's medical doctor cohort. *Sexual and Reproductive Health Matters*. 2019;27(1):1683127.
- **Gravino G**, Zrinzo L. Clinical significance of radiologically evident neurovascular conflict in classical trigeminal neuralgia and trigeminal autonomic cephalgias: a systematic review. *British Journal of Neurosurgery*. 2017;31(2);119-158.
- **Gravino G**, Galea B, Soler D, Aquilina J. (2016). Video-EEG long term monitoring as a new service at Mater Dei Hospital. *Malta Medical Journal*, 28(2); 46-54.
- **Gravino G**. (2013). Gilles de la Tourette syndrome. *Annals of Clinical Psychiatry*, 25(4); 29-306. PMID: 24199221
- Borg F, **Gravino G**, Schembri-Wismayer P, Calleja-Agius J. (2013). Prediction of Preterm Birth. *Minerva Ginecologica*, 65(3); 345-360.
- Valentino M, Zammit C, Pierucci M, **Gravino G**, Galea B, Di Giovanni G, Muscat R. (2012). Targeted single blood vessel occlusion in rodent pial arteries to study astrocytic-vascular dysfunction in a mini-stroke model. *Malta Medical Journal*, 24 (Supplement); 138. Abstract.
- **Gravino G**. (2012). World University Anatomy Challenge 2012 – A Doctors Academy Event. *World Journal of Medical Education and Research*, 1(1); 13.

Other research background

- Outcomes of Woven Endo-bridge device – *National collaboration*.
- Neuroscience Laboratory Research with Prof. Mario Valentino (2011-2013); I prepared animal stroke-models (mice) by surgically occluding the middle cerebral artery. This was a very demanding exercise in microsurgery, and I was able to achieve consistent reproducible results proven with Laser Doppler Flowmetry. This allows reliable testing of pharmacological assays in neuroprotection in vivo and ex vivo (TTC staining to measure infarct volume). I also prepared cranial windows on transgenic mice for studies with high resolution 2-photon microscopy.
- An evaluation of student and newly qualified radiographers' competence in image interpretation (2010); A B.Sc. (Hons.) dissertation - awarded Grade A.

Presentations

Oral presentations

- **Gravino G**, Mallucci C, Chandran A, Puthuran M. Transcranial venous sinus cannulation for embolisation of residual vein of Galen malformation – a hybrid approach. *2nd International Meeting on Vein of Galen Malformation 2025*.
- **Gravino G**, Aamir S, Abdelsalam N, Olubajo F, Carleton-Bland N, Jenkinson M, Chandran A. Meningeal artery embolisation for symptomatic chronic subdural haematoma – UK single centre experience. *Society of British Neurological Surgeons (SBNS) Edinburgh Spring meeting 2024*.
- **Gravino G**, Zrinzo L. Clinical significance of radiologically evident neurovascular conflict in classical trigeminal neuralgia and trigeminal autonomic cephalgias: a systematic review. *Society of British Neurological Surgeons (SBNS) Oxford Spring meeting 2017*.
- Valentino M, Zammit C, Pierucci M, **Gravino G**, Galea B, Di Giovanni G and Muscat R. Targeted single blood vessel occlusion in rodent pial arteries to study astrocytic-vascular dysfunction in a mini-stroke model. *VIII Malta Medical School Conference 2012*.

Poster presentations

- **Gravino G**, Dinama E, Nayak S, Yang Y, Roffe R. Double stent-retriever thrombectomy: exploring alternative indications, deployment and retrieval techniques. *UK Stroke Forum 2024*.
- **Gravino G**. Vein of Galen Malformation Case Series from Alder Hey Children's Hospital. *NHS England Annual Meeting 2024*.
- Ibrahim E, Aamir S, **Gravino G**, Biswas S, Chandran A. The types of cerebral arterial aneurysms: a pictorial review with case studies. *Brain Conference 2023*.
- **Gravino G**, Puthuran M, Babatola F, Pullicino R, Masri S, Biswas S, Chapot R, Chandran A. Primary endovascular embolisation of intracranial arteriovenous malformations (AVM) with an intent to cure – A single centre experience. *BSNR ASM 2022*.
- **Gravino G**, Patel J, Ratneswaren T and Craven I. Diagnostic and interventional neuroradiology training in the UK: a national trainee survey. *BSNR ASM 2022*.
- Samaha S, Patel J, **Gravino G**, Babatola F. CT Angiogram (CTA) in acute neurointerventional procedures: Are referring hospitals using the correct protocols. *BSNR ASM 2022*.
- Albakri Y, Patel J, **Gravino G**, Barakat A, Biswas S, Mills S. Spinal injuries from high-speed motorcycle injuries, a case series. *BSNR ASM 2022*.
- **Gravino G**, Pullicino R, Chandran A, Puthuran M. Reducing radiation exposure in neurointervention through dedicated training on the biplane angiographic system. *BSNR ASM 2021*.
- **Gravino G**, Edwards Y, Chandran A, Puthuran M. Endovascular treatment of ethmoidal dural arteriovenous fistulas with bilateral inflation of the Scepter mini balloon microcatheter. *BSNR ASM 2021*.
- **Gravino G**, Patel J, Babatola F. Differential causes for perimesencephalic pattern of haemorrhage. *BSNR AGM 2021*.
- Samaha S, **Gravino G**, Lallouo A, Masri S and Puthuran M. Efficacy and safety profile of Leo+Baby stent-assisted coiling for intracranial aneurysms. *BSNR ASM 2021*.
- **Gravino G**, Noreikaite J, Rigby C, Hanlon R. Emergency Magnetic Resonance Imaging of the spine: a quality improvement project. *European congress of Radiology (ECR) 2019*.
- **Gravino G**, Zrinzo L. Clinical significance of radiologically evident neurovascular conflict in classical trigeminal neuralgia and trigeminal autonomic cephalgias: a systematic review. *UK Radiological Congress (UKRC) 2017*.
- **Gravino G**, Galea B, Soler D, Vella N, Aquilina J. Video EEG Long Term Monitoring as a new service at Mater Dei Hospital. *IX Malta Medical School Conference 2015*.

Teaching and Educational roles

- Peer-reviewer for Interventional Neuroradiology Journal, Stroke and Vascular Neurology Journal, BMJ Case Reports, International Medical Case Reports Journal, and Therapeutics and Clinical Risk Management Journal
- Speaker for British Society of Neuroradiology – Neuroimaging made easy (2025)
- Speaker for British Society of Neuroradiology – Stroke Imaging Study Day (2025)
- Organised British Pragmatic Advanced Endovascular AVM and Aneurysm Workshop [Liverpool, UK] (2024)
- Organised Clinical Interventional Neuroradiology Course 4.2 (2024)
- Clinical lecturer (*North-West Radiology Academy 2021-2022*)
- Integrated Foundation in Medical Education Course (IFME) (2016)

- Examiner for Year 4 Medical Student Formative Assessments (*University of Cambridge 2015-2016*)
- Clinical Supervisor for Year 4 Medical students (*University of Cambridge 2015-2016*)
- Organiser of the Clinical Interventional Neuroradiology Course (CINR) (*2021*)
- Organiser of the How to Get into Radiology Interview Preparation Course (*2018*)
- Co-founder of the Malta Medical Journal Club (*2014*)
- Co-founder of the 'Journal Update Magazine' (*2014*)
- Student Representative on the Institute of Healthcare Board (*University of Malta 2007-2008*)

Neuroradiology courses, workshops, and conferences

Queen Square Neuroradiology Symposium (QuINS) (2025)
 LINNC Live Case Conference [Paris, France] (2025)
 ALICE Live Case Conference [Essen, Germany] (2025)
 UK Stroke Forum (UKSF) [Liverpool, UK] (2025)
 UK Neurointerventional Group (UKNG) [Oxford, UK] (2024)
 Cerenovus J&J Medtech Workshop [Galway, Ireland] (2024)
 WallabyPhenox Workshop [Bochum, Germany] (2024)
 ECMINT Courses (European Course in Minimally Invasive Neurological Therapy) (2021-2024)
 ESNR Courses (European Society of Neuroradiology) – Intervention course (2021-2024)
 CINR Courses (Clinical Interventional Neuroradiology) (2021, 2024)
 ESNR Courses (European Society of Neuroradiology) – Neurodiagnostic (2018-2022)
 BSNR (British Society of Neuroradiology) Annual Scientific Meetings (2021- 2022)
 Thrombectomy Live Model Vall d'Hebron Workshop [Dr Juan Macho, Barcelona, Spain] (2022)
 Alfried Krupp Workshop [Prof René Chapot. Essen, Germany] (2022)
 World AVM Congress [Val d'Isere, France] (2022)
 INR Complex Case Meeting [Birmingham] (2021)
 Neuroradiology and Functional Neuroanatomy Course, UCL (2017)
 Adult Brain MRI Review Course, Radiopaedia (2015)