SCIENTIFIC ACTIVITY STATEMENT

Researcher: Dr. Ghaith Saleh Radi Aljboor, PhD candidate.
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Institutional affiliation: Carol Davila University of Medicine and Pharmacy, Bucharest

1. Overview of Scientific Activity

My scientific activity focuses on neurosurgery, particularly cerebrovascular neurosurgery, neuroendocrinology, traumatic brain injury, and spinal disorders.

My research aims to investigate disease mechanisms, identify prognostic biomarkers, evaluate surgical outcomes, and contribute to evidence-based neurosurgical practice.

2. Main Research Areas

- **Neuroendocrinology and Brain Injury**

Research on hypothalamic-pituitary dysfunction following traumatic brain injury and aneurysmal subarachnoid haemorrhage, including systematic reviews, meta-analyses, and prospective clinical investigations of hormonal abnormalities and their prognostic significance.

- **Cerebrovascular Neurosurgery**

Research involving intracranial aneurysms, complex vascular pathology, microsurgical clipping techniques, and clinical outcomes in challenging cerebrovascular cases.

- **Spinal Neurosurgery and Biomechanics**

Current research interests include comparative radiological outcomes following anterior cervical discectomy and fusion (ACDF) and cervical disc replacement (ACDR), focusing on cervical biomechanics, alignment, and postoperative mobility.

3. Scientific Publications

My publication record includes original research articles, systematic reviews and meta-analyses, prospective clinical studies, and neurosurgical case reports published in international peer-reviewed journals.

Selected publications include:

1. *Acute and chronic hypopituitarism following traumatic brain injury: a systematic review and meta-analysis.*Neurosurgical Review, 2024.
2. *Biochemical Evidence of Acute Hormonal Abnormality in Aneurysmal Subarachnoid Hemorrhage.* International Journal of Molecular Sciences, 2026.
3. *Prognostic Significance of Early ACTH Levels on Neurological Recovery in Patients with Aneurysmal Subarachnoid Hemorrhage.* BMC Neurology, 2026.
4. *Coanda Effect Displayed in a Giant Intracranial Aneurysm.* Brain Sciences, 2024.
5. *Navigating the Rare and Dangerous: Successful Clipping of a Superior Cerebellar Artery Aneurysm.* Journal of Clinical Medicine, 2024.
6. *Single-Stage Microsurgical Clipping of Multiple Intracranial Aneurysms in a Patient with Cerebral Atherosclerosis.* Journal of Clinical Medicine, 2025.
7. *Stroke and Pulmonary Thromboembolism Complicating a Kissing Aneurysm in the M1 Segment of the Right MCA.*Journal of Clinical Medicine, 2025.
8. *Surgical Options for Traumatic Fractures of the Thoracic and Lumbar Spine: A Series of 20 Patients.* Romanian Neurosurgery, 2020.

4. Bibliometric Profile and Research Visibility

According to my publicly indexed ResearchGate profile:

- Publications: 14
- RI Score: 46.0
- Citations: 99
- ResearchGate reads: 729

These figures reflect the indexed profile at the time of assessment and are subject to change.

Researcher identifiers and academic profiles:

- ORCID: 0000-0002-3216-5542
- ResearchGate/ Google Scholar : Ghaith Saleh R. Aljboor

5. Scientific Contribution and Future Objectives

My academic objectives include advancing research into neuroendocrine dysfunction following brain injury, investigating prognostic biomarkers in cerebrovascular disease, and developing comparative studies in spinal biomechanics and postoperative radiological outcomes.

My long-term goal is to strengthen the integration of clinical neurosurgery and academic research, contributing to scientific knowledge, interdisciplinary collaboration, and improved patient outcomes.