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**CURRICULUM VITAE**  
**AMR O. EL-NAGGAR, M.D., FACS**

**Current Position:**

**President**  
**Lake Cumberland Neurosurgical Clinic, P.S.C.**  
**350 Hospital Way, Suite #270**  
**Somerset, Ky 42503**  
**-July 1990 to present-**

**Board Certification:**

**Board certified - American Board of**  
**Neurological Surgery - 1996.**

**Board Certification:**

**Board certified - American Board of Pain**  
**Medicine - 1996.**

**Previous Positions:**

1. **Assistant Professor of Neurosurgery**  
**University of Kentucky Medical Center**  
**Lexington, KY - Part Time -1990 to 1992.**
2. **Assistant Professor of Anesthesiology and**  
**Neurosurgery Consultant**  
**University of Kentucky Pain Management**  
**Center**  
**Lexington, KY - Part Time -1990 to 1992.**
3. **Chief of Surgery**  
**Humana Hospital Lake Cumberland -1993.**
4. **Chief of Medical Staff Lake Cumberland**  
**Regional Hospital - 1997 to 1998.**
5. **Chief of Neurosurgery**  
**Lake Cumberland Regional Hospital - 2001,2003**  
**2005**

**Medical Licensure:**

Kentucky, Ohio, Massachusetts.

**Residency Training:**

Duke University Medical Center, Durham,  
North Carolina. July 1985 - June 1990.

**Fellowships:**

1. Massachusetts General Hospital, Harvard University, Boston, Massachusetts. July 1982 - June 1983.
2. University of Cincinnati Medical Center, Cincinnati, Ohio. July 1984 - June 1985.

**PRIZES AWARDED:**

Hallett Prize - Royal College of Surgeons of England. May 1984.

**COLLEGE FELLOWSHIPS:**

1. Fellow of American College of Surgeons.
2. Fellow of International College of Surgeons.
3. Hallett Prize winner of the Royal College of Surgeons of England.

**VISITING PROFESSOR**

1. Visiting professor University of Bristol, England  
October 19-21, 1999.
2. Visiting professor Saudi - German Hospital,  
March 1999, December 2000, April 2001

**SOCIETY MEMBERSHIP:**

1. American Medical Association - KY Medical Association.
2. American Association of Neurological Surgeons.
3. American Society of Stereotactic and Functional Neurosurgery.
4. World Society of Stereotactic and Functional Neurosurgery.
5. Congress of Neurological Surgery
6. American Association for the Advancement of Science.
7. American Academy of Pain Medicine.

**EDUCATION AND TRAINING:**

- Primary Education: From 1959 to 1965 at St. George's College, Heliopolis, Cairo, Egypt.
- Preparatory Education: From 1965 to 1969 at St. George's College, Egypt.
- High School: From 1968 to 1971 at the English Mission College, Cairo, Egypt.
- Premedical Education : From 1971 to 1972 at the Faculty of Science, Ain Shams University, Cairo, Egypt.
- Medical Education: From 1972 to 1977 at the Ain Shams School of Medicine, Abasia, Cairo, Egypt.

**MEDICAL QUALIFICATIONS AND EXPERIENCE:**

- 1977: Graduated from the School of medicine, Ain Shams University, Cairo, Egypt, with a VERY GOOD grade.
- 1978-1979: Internship for 12 months at the University of Ain Shams Hospital.
- 1979-1982: Neurosurgery Resident for three years at Zagazig University at Banha. Thesis completed on "The value of the CT Scan in the diagnosis of intracranial space-occupying lesions", in Partial fulfillment of the requirements for the Master degree of Surgery.
- 1981: Passed the Visa Qualifying Examination and currently have an indefinitely valid ECFMG certificate.
- 1982: Fellow of Neurosurgery at Massachusetts General Hospital, Harvard University, Boston, Massachusetts. July 1982 - June 1983.
- 1982: Passed the primary Surgical Fellowship Examination held by the Royal College of Surgeons of England and awarded "The Hallatt Prize" of excellence, received at the meeting of the Council of The Royal College of Surgeons May 1984 in London, England.
- 1983: Passed the FLEX examination. I currently hold a permanent license to practice in Massachusetts, Kentucky, and Ohio.

- 1983: Appointed PGY-2 General surgical resident at the University of Massachusetts Medical Center from July 1983 till June 1984.
- 1984: Appointed at the University of Cincinnati Medical Center as a "Clinical Fellow of Neurosurgery" from July 1984 till June 1985.
- 1985: Appointed PGY-4 resident of Neurosurgery at Duke University Medical Center, Durham, North Carolina.
- 1986: Appointed PGY-5 resident of Neurosurgery at Duke University Medical Center, Durham, North Carolina.
- 1987: Appointed PGY-6 chief resident of Neurosurgery at Duke University Medical Center, Durham, North Carolina.
- 1988: Appointed PGY-7 Supreme resident, Division of Neurosurgery at Duke University Medical Center, Durham, North Carolina.
- 1988: Passed written test of American Board of Neurosurgery.
- 1989: PGY-8 Supreme resident of Neurosurgery.
- 1995: Passed oral test of American Board of Neurological Surgery. Currently Board Certified.

**PRESENTATIONS:**

A.O. El-Naggar, B.S. Nashold, J.O. Levitt, A. Johnson, S. Vogel. Traumatic Syringomyelia: An Experimental Animal Model. American Association of Neurological Surgeons 1989 Annual Meeting, Washington, D.C. April 1-6, 1989.

A.O. El-Naggar, M. Abdulhak, J.O. Levitt, B.S. Nashold, Jr., New Radiofrequency Lesion Electrodes for use in the Caudalis DREZ operation based on a cervicomedullary Neuroanatomical study. American Association of Neurological Surgeons 1991 Annual Meeting, New Orleans, LA April 20-25, 1991.

A. O. El-Naggar, B. S. Nashold, Jr.. Surgical Technique of the DORSAL ROOT ENTRY ZONE OPERATION - FIRST EUROPEAN DREZ SYMPOSIUM - Pamplona - Spain, Dec., 1997.

A. O. El-Naggar: Nucleus Caudalis DREZ for Treatment of Intractable Headaches - Case Reports and Literature Reviews - First European DREZ SYMPOSIUM, Pamplona, Spain, Dec., 1997.

A. O. El-Naggar: Anatomy of The Nucleus Caudalis and the Trigeminal Nuclei - Meeting of the Italian Neurosurgical Society - Rome, Italy Oct., 1998.

A. O. El-Naggar: Pitfalls of the Nucleus Caudalis DREZ Operation - Meeting of the Italian Neurosurgical Society - Rome, Italy Oct., 1998.

#### PUBLICATIONS:

##### **A. NEUROSURGERY TEXTBOOK CONTRIBUTIONS**

A. O. El-Naggar, B.S. Nashold, Jr., E. Rossitch, Jr., J.N. Young: Trigeminal Nucleus Caudalis Lesioning for pain relief. Neurosurgery Textbook, Second Edition, Vol. 3; 4047 - 4053. McGraw Hill, 1996.

B.S. Nashold, A. O. El-Naggar. Dorsal Root Entry Zone (DREZ) Lesioning. Neurosurgical Operative Atlas Vol. 2; 9-24, American Association of Neurological Surgeons, Williams and Wilkins, 1992.

B. S. Nashold, Jr., A. H. Friedman, J.H. Sampson, J. R. B. Nashold A. O. El-Naggar. Dorsal Root Entry Zone lesions for Pain. Youman's Neurological Surgery, 4th Edition, Vol. 5; 3452 - 3462, W.B. Saunders Co. 1996.

B.S. Nashold, Jr., A.O. El-Naggar, J.P. Gorecki. The Microsurgical Trigeminal Caudalis Nucleus DREZ Procedure. American Associates of Neurological surgeons Publication Committee, 1996.

##### **B. JOURNAL PUBLICATIONS**

C. E. Rawlings, A.O. El-Naggar, B.S. Nashold, Jr. The DREZ Procedure: An Update on Technique. British Journal of Neurosurgery 3, 633-642, 1989.

B.S. Nashold, Jr., J. Vieira, A. O. El-Naggar. Pain and Spinal cysts in Paraplegia: Treatment by Drainage And DREZ Operation. British Journal of Neurosurgery 4, 327-336, 1990.

B. S. Nashold, Jr., A. O. El-Naggar, M. M. Abdulhak, J. O. Levitt, E. Cosman: Trigeminal Nucleus Caudalis Dorsal Root Entry Zone: A New Surgical Approach. Stereotactic Functional Neurosurgery 1992; 59: 45-51.

B. S. Nashold, Jr., A. O. El-Naggar, J. O. Levitt, M. Abdulhak: A New Design of Radiofrequency Lesion Electrodes for use in the Caudalis Nucleus DREZ operation. J. Neurosurgery 80: 1116-1120, 1994.

**AREAS OF INTEREST:**

- (A) Cranial: Including tumors, vascular including aneurysms and AVMs.
- (B) Spinal: - Including spinal fusion with instrumentation for cervical, thoracic and lumbar pathology, including interbody cages both anterior and posterior.  
-Percutaneous pedicle screws
- (C) Carotid Endarterectomy.
- (D) Functional Neurosurgery including deep brain stimulation.
- (E) Pain.

**SPECIAL TRAINING AND AREA OF SPECIALIZATIONS: NEUROSURGICAL TREATMENT OF INTRACTABLE PAIN:**

1. Dorsal root entry zone lesioning (DREZ) for treatment of intractable pain secondary to:
  - (A) Brachial plexus avulsion injuries.
  - (B) Phantom pain.
  - (C) Intractable pain in paraplegics.
2. Percutaneous cervical cordotomy for unilateral cancer pain.
3. Insertion of epidural dorsal column stimulators and segmental spinal cord stimulators for treatment of intractable pain secondary to:
  - (A) Lumbar arachnoiditis and epidural scarring - failed back surgery.
  - (B) Reflex sympathetic dystrophy.

- (C) Post-herpetic neuralgia (selected cases).
- (D) Multiple sclerosis (selected cases).
- 4. Insertion of morphine pumps for treatment of intractable pain secondary to:
  - (A) Cancer pain.
  - (B) Failed back surgery pain (selected cases).
- 5. Facet rhizotomy for treatment of intractable low back pain secondary to facet joint arthropathy.
- 6. Sacroiliac joint denervation for intractable pain secondary to sacroiliac joint arthropathy.
- 7. Trigeminal Neuralgia operations.
  - (A) Microvascular decompression of V cranial nerve.
  - (B) Percutaneous retrogression rhizotomy using radiofrequency thermocoagulation.
- 8. Kyphoplasty/Vertebroplasty

**SPECIAL TRAINING AND AREA OF UNIQUE SPECIALIZATION:**

Nucleus Caudalis trigeminal nucleus DREZ lesions for treatment of intractable pain using the El-Naggar-Nashold angled nucleus caudalis DREZ electrode\* for treatment of intractable pain/headache secondary to:

- (A) Post-herpetic neuralgia (face).
- (B) Anesthesia Dolorosa.
- (C) Post-rhizotomy dysesthetic pain (Pain following rhizotomy for trigeminal neuralgia).
- (D) Cancer pain in face and head areas.
- (E) Cluster headaches (selected cases).
- (F) Migraine headaches (selected cases).

\* Manufactured by Radionics, Burlington, Massachusetts.