

Curriculum Vitae

1. Personal Details

Full name: M. S. Eljamel, MBBCh, MD, FRCSIr, FRCSEd, FRCS(SN), FABI

Short name: Sam Eljamel, MD, FRCS(ED,Ir, SN), FABI

Position//title: Consultant Neurosurgeon and Honorary Reader in Surgical Neurology.

Other responsibilities:

Current: Head of Department/Section Surgical Neurology, Uni Dundee from 1996.
 Lead Clinician/Medical Director- the Scottish Photodynamic Centre from 2008.
 Director the National Centre for Neurosurgery for Mental Disorders from 2007.
 Member of the National Panel of Specialists – Scotland. from 2000.
 Chairman Clinical Governance Committee Specialist Services Group from 2006.
 Secretary British Stereotactic and Functional Neurosurgery Group from 2006.
 Member Executive Committee – AANS/CNS Tumor Section from 2007.
 Board Member of the International Photodynamic Association from 2007.
 Chairman of Malignant Spinal Compression Group from 2008.
 Vice President of the British International Doctors' Association from 2008.
 Secretary Dundee Medical Club from 2005.
 Foundation Chairman – RC Dundee Discovery 2008-2009.
 Chairman Medical Laser Research (Mede Lase) Tayside from 2006.
 Trustee of the UK-PDT Charity from 2008.
 Clinical Specialist Advisor – NICE National Institute of Clinical Excellence from 08.

Past: Lead Clinician – Neurosurgical and Pain Services from 1998 to 2008.
 Medical Clinical Advisor to the Healthcare Commission – England 2007-09.
 Founding/Chartered President Rotary Club Dundee Discovery 2004-2006.
 International Committee Chairman- R C Dundee Discovery 2007-2008.
 Consultant Neurosurgeon and elected 'member of the Medical Advisory Committee-
 BMI-Fernbrae Hospital, Dundee.

2. Higher Education / Qualifications:

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| • MBBCh (Bachelor of Medicine and Surgery with honours) | 1982. |
| • MD (Neurosciences with distinction) University of Liverpool | 1992. |
| • FRCSIr – Royal College of Surgeons in Ireland | 1986. |
| • FRCSEd – Royal College of Surgeons of Edinburgh | 2003.(without exam) |
| • FRCS(Neurosurgery) Intercollegiate fellowship | 1992. |
| • CCST(UK)- Neurosurgery | 1993. |

3. Experience:

- Graduated with honours in December 1982.
- Internship in Surgery & Medicine January-December 1983.
- General Professional and Basic Surgical Training 1984-1987.
- Senior House Officer in Neurosurgery – The Walton Centre for Neurology and Neurosurgery - Walton Hospital – Liverpool, England, 1987.
- Registrar Neurosurgery – The Walton Centre for Neurology and Neurosurgery - Walton Hospital - Liverpool, England, 1987-1989.
- Senior Registrar in Neurosurgery (Locum Appointment for Training)- The Walton Centre for Neurology and Neurosurgery -- Walton Hospital - Liverpool, England, 1990-91.
- Senior Registrar in Neurosurgery – Beaumont Hospital – Dublin, Ireland, 1991-1994.
- Clinical Fellow in Neurosurgery – University of Connecticut and Hartford Hospital, Connecticut – USA, 1995.
- Consultant Neurological Surgeon – NHS Tayside from 1995.

- Honorary Senior Lecturer – The University of Dundee from 1995 to 2005.
- Honorary Reader in Surgical Neurology – University of Dundee from 2005.
- Additional professional, managerial, leadership, advisory and charitable experience and attributes gained from positions of responsibilities as a lead clinician, specialist advisor, panelist and chairman positions held and listed under the heading of current and past positions of responsibilities.

4. **Professional associations:**

- Active international member of:
 - The Congress of Neurological Surgeons (CNS) –USA- from 2001 to present.
 - The American Association of Neurosurgery (AANS)– from 2005 to present.
 - The American Society of Stereotactic and Functional Neurosurgery (ASSFN) from 2000.
 - The AANS/CNS Tumor Section from 2006 and member of the Executive Committee from 2007.
 - The AANS/CNS Spine & Peripheral Nerve Section from 2006.
 - The AANS/CNS Pain Section from 2006.
- Active full member of the:
 - The European Association of Neurosurgery (EANS) from 2008.
 - International Photodynamic Therapy (IPA) FROM 2007 (elected 'board member 2008).
 - The Society of British Neurological Surgeons (SBNS) from 1995 served on the information committee 2002-2005, Educational Committee 2007-2009 and Unit liaison officer from 1998.
 - The Scottish Association of Neurological Sciences (SANS) full member from 1995, judged presentations.
 - The European Society for Stereotactic & Functional Neurosurgery (ESSFN) full member from 1997.
 - The International Society for Stereotactic Radiosurgery (ISRS) full member from 1997.
 - The International Society for Computer Assisted Surgery (ISCAS) full member from 1997.
 - The North American Skull Base Society (NASBS) international active member from 1998.
 - The International Association for the Study of Pain (IASP) Associate member from 1990-1996 and full member from 1997- present.
 - The GNAMED research society; (Founding member) organised the 3rd meeting in 2006 and Co-editor of proceedings.
 - The British Stereotactic and Functional Neurosurgery Group (BSFNG), (Founding member) Organised 2 meetings and 2 workshops, Secretary from 2006 to 2009.
 - The New York Academy of Sciences (NYAS) from 1994 to 2006 and patron member from 2006 to present.
 - The British Medical Laser Association (BMLA) from 2006.
 - The Royal Society of Medicine (RSM) from 2004.
 - The International Neuromodulation Society (INS), full member from 2001.
 - The British Medical Association (BMA) from 1995 served on the local Negotiating Committee for 3 years.
 - The American Medical association (AMA) 1995.
 - The Royal Academy of Medicine in Ireland (RAMI) from 1991 to 1995.
 - The Irish Neurological Association (ISA) 1991 to 1995.
- Member of the Scientific Program Committee:
 - IPA meeting in Munchen – Germany 2005.
 - IPA meeting in Shanghai, China 2007.
- Chairman of scientific session/meeting:
 - IPA meeting Munchen – Germany 2005.
 - IPA meeting Shanghai – China 2007.
 - NASBS meeting in Orlando 2005.
 - NASBS meeting with World Federation of Skull Base, Vancouver 2008.

5. Other Committee memberships:

- Member of Lead Neurosurgeons Group, a subgroup of the Implementation Neurosciences Group of the Scottish Government Health Department, 2007-2008.
- Member of the Pathways Committee in Neurosurgery, Clinical Managed Network 2007.
- Member of the local organizing and scientific committee of the 2007 European Association of Neurosurgical Societies (EANS), Glasgow, Sep 2007.
- Medical Admissions Committee the School of Medicine, the University of Dundee. From 1998.
- The Neurosciences Advisory Committee, Tayside from 1995.
- The Faculty Board and Board of Studies, the University of Dundee Medical School from 1996.
- Chairs of Clinical Governance Committee and the Committee of Quality and Clinical Governance of Secondary Care, NHS Tayside 2005-2009.
- The Dundee Medical Club Council for 3 years.
- The Acute Services Review Tayside for 2 years.
- The Basic Surgical Training Committee – Tayside for 12 years.
- The General Professional Medical Training Committee Tayside for 4 years.
- The Specialist Training Committee – Tayside from 2007.
- The Neuro-rehabilitation Committee – Tayside 2004/5.
- The PACS implementation Group Tayside.
- The Trauma Committee Ninewells Hospital for 3 years (1998-2000).
- The surgical training subcommittee – Eastern Deanery 1998-2003.
- The DVT Prophylaxis Committee Tayside & Venous Thrombo Embolism Committee 2006 -2009.
- The Consultants Discretionary Points Committees three times.
- The Neurosurgical National Service Review 2006-07 and chaired the functional neurosurgery subgroup.
- Chaired or member of appointment committees for Specialist Registrars, SHOs and clinical fellows, Dundee over 80 times, Glasgow over 20, Edinburgh once.
- Member of several appointment committees of consultant neurosurgeons as national panelist in Aberdeen three times, Glasgow twice and Dundee three times.
- Theatre users group for 12 years.
- CT access committee to GPs 2005/6.
- The Electronic Health Committee Tayside.
- Nominated to SBNS Council four times, to INS council once and to Royal College of Surgeons in Edinburgh once and to International Photodynamic Therapy board of directors once.
- The Neurosciences Theme steering group – University of Dundee.

6. Teaching:

a. Undergraduate:

i. MBBS course University of Dundee:

Course	Frequency per yr	Years taught	No Students	Average hours
Phase II Neurology	Once for 4 weeks	1996 to date	10-20 at a time	32 in 4 weeks
Phase II SSC S100	Twice for 4 wks	1997 to date	6-9 at a time	24 in 4 weeks
Fourth Year	Every week	1995 to date	1 -3 at a time	24 per week
Phase III SSC S100	Twice for 4 wks	1997 to date	6-9 at a time	24 in 4 weeks
PRHO – FY1	Four times/ year	2000 to date	1-3 at a time	24 per weeks

ii. Fourth Year Projects – University of Dundee:

- Neuronavigation in Neurosurgery .
- Astrocytomas of the brain.
- Non-neurosurgical complications in head injuries.
- Neuro-modulation in Parkinson's disease.

- Spinal Cord Stimulation in chronic pain.
- Coiling or clipping of intracranial aneurysms.
- C1/2 growth in children using CT reconstruction.

iii. Peer support scheme and Student support scheme – the University of Dundee 2004-2007.

iv. Medical Admissions Committee:

I am a member of the Medical Admissions Committee of the faculty of Medicine from 1998. I am involved in Committee meetings (6-10 per year), review and score applications in my own time (150 to 200 per year) and interviewing selected students (6-8 sessions per year).

v. Examiner:

Undergraduate examiner: portfolio reviewer & examiner for final degree at the Faculty of Medicine, The University of Dundee 2002/04/05/06/07. Final year MBBS, The University of Dundee May 24th 2007. Final year MBBS, The University of Dundee May 24th 2006. Phase 2 OSCE exam, the University of Dundee, May 3rd 2006. Final year MBBS, The University of Dundee May 24th 2005. Final year MBBS, The University of Dundee May 24th 2004. Final year MBBS, The University of Dundee May 24th 2003. Final year MBBS, The University of Dundee May 24th 2002. Marker of 4th year examinations and 4th year case studies in surgery.

MCQ marker and OSCE examiner, Faculty of Medicine, The University of Dundee.

b. Postgraduate:

This part of clinical academia is equivalent to postgraduate supervisor's roles in purely scientific academic discipline as all these trainees were working towards postgraduate MRCS, FRCS, FRCS(NS), MCh or MD and progressed to achieve it.

i. Postgraduate courses organised:

- The 4th Dundee Neuronavigation Workshop – Aug 2000.
- The 3rd Dundee Neuronavigation Workshop – 1998.
- The 2nd Dundee Neuronavigation Workshop – 1996.
- Neuronavigation & Functional Neurosurgery Workshop – Dublin – 1994.
- The National Spinal Course – Dublin – 1993.
- The National Head Injury Course – Dublin – 1992.

ii. Postgraduate Projects:

- The accuracy of neuronavigation of the brain 1996-2003.
- Neuronavigation of cervical spine.
- Neuromodulation of the brain in movement disorders 1996-2003.
- Outcome of intervertebral Microdisectomy and Fusion 2001.
- Vagus Nerve Stimulation in refractory epilepsy.
- Long term outcome of trigeminal neuralgia surgery.
- Health Records audit from 1997 to date.
- Headaches after posterior cranial fossa surgery 2004-05..
- C1/2 fixations outcome 2005-06.
- Audit of glioblastomas multiforme 2005-06.
- Acoustic neuroma audit long term outcome 2005-06.
- Audit of GP referrals 2006-08.
- PDT in non-gliomas 2007-08.
- UK-global adverse event trigger tool in neurosurgery 2007 to date.

iii. Postgraduate MCH-Ortho course teaching:

MCH-Ortho	Once per year	2001 to date	20-35 at a time	4 hours per year
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iv. Post Graduate training supervision:

Passed means the doctor achieved the qualification or goal of the supervised training under my supervision in Post graduate year (PGY) 1 means got their GMC registration, PGY2-3 passed their MRCS and moved on to the next training level, PGY 4 & 5 passed their FRCS (NS) and got their CCT and proceeded to Consultant position, Fellows completed successfully their fellowship training

Year	PGY1 first year after graduation working towards GMC registration	PGY 2,3 & 4 working for MRCS	PGY 4 & above working to CCT/FRCS	Fellows working to subspecialties in Functional or Skull base
1996	4/4 passed	2/2 passed	2/2 both	
1997	4/4 passed	2/2 passed	2/2 both	1/1 pass MCh
1998	4/4 passed	2/2 passed	2/2 both	1/1 pass MCh
1999	8/8 passed	2/2 passed	2/2 passed	1/1 passed.
2000	8/8 passed	2/2 passed	2/2 passed	1/1 passed.
2001	8/8 passed	2/2 passed	2/2 passed	1/1 passed.
2002	8/8 passed	2/2 passed	2/2 passed	1/1 passed.
2003	8/8 passed	2/2 passed	2/2 passed	1/1 passed.
2004	8/8 passed	2/2 passed	2/2 passed	1/1 passed.
2005	8/8 passed	6/6 passed	2/2 passed	2/2 passed.
2006	8/8 passed	6/6 passed	2/2 passed	2/2 passed.
2007	8/8 passed	6/6 passed	3/3 passed	2/2 passed.
2008	8/8 passed	5/5 passed	4/4 passed	2/2 passed.

Ten of these clinical fellows came to Dundee because of my work and reputation and they were self funding over the last 10 years: from Italy 2, Greece 1, Africa 3, and Asia 4.

I have participated in all local career days, given a talk to prospective Medical School open days for years 2004, 2005, 2006, 2007.

I have been involved in regular appraisal and RITA assessments of these trainees, the Basic Surgical Training Program in Tayside and the West of Scotland Higher Neurosurgical Training Program, in which Dundee is part of the rotation. I am an active member of the local and national training committees as highlighted under experience and positions of responsibilities.

v. Examination & other academic responsibilities:

- a. MRCS- Examiner: to the Royal College of Surgeons of Edinburgh – MRCS- Ophthal in medicine and neurology applied to Ophthalmology from 2003. Oral MRCSOphth Edinburgh Sat May 7th 2005. Oral MRCSOphth Edinburgh Jun 8th 2006.
- b. FRCS- Examiner: to the Royal College of Surgeons of Edinburgh – FRCS Ophthal in medicine and neurology applied to Ophthalmology from 2003.
- c. Intercollegiate Examiner in neurosurgery: to the Intercollegiate fellowship in Neurosurgery from 2002.: FRCS FRCS (SN) examination Belfast 2003. FRCS (SN) examination – Manchester 2004 FRCS (SN) examination – Dublin 2005 FRCS (SN) examination – Manchester 2005 FRCS (SN) examination – Mar 27-28, 2006 – Liverpool. FRCS (SN) examination – Oct 4-5 2007 – Birmingham. FRCS (SN) examination – Apr 2008 – Glasgow.

7. Research

Over all summary:

- Full papers 69;
 - PubMed link:
<http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Search&db=PubMed&term=elijamel>
 - Journal of Stereotactic and Functional Neurosurgery link:
<http://content.karger.com/ProdukteDB/produkte.asp?Aktion=showproducts&searchWhat=authorsproducts&searchParm=elijamel&ProduktNr=0>
 - BioinfoBank link:
<http://lib.bioinfo.pl/auth:EliJamel,MS>
 - Biomed expert link:
http://www.biomedexperts.com/Profile.bme/364422/M_Sam_EliJamel

- SciLink:
<http://www.scilink.com/people/mseljamel>
- Abstracts 37
- Books and book chapters 5
- Presentations at Scientific meetings 75

Stereotaxy, Image Guidance and Robotics:

- 1) Eljamel MS. Robotic Neurosurgical Applications: Accuracy and Consistency or Pure Fantasy? *Stereotact Funct Neurosurg*. 2009; 87:88-93.
- 2) Eljamel MS. Validation of a neurosurgical robot using a phantom. *Int J Med Robotics Comput Assist Surg* 2007; ;3(4):372-7.
- 3) Eljamel MS, Tulley M, Spillane K. A simple stereotactic method for frameless deep brain stimulation. *Stereot Funct Neurosurg* 2007; 85: 6-10 (EARLY publication on line from October 2006).
- 4) Eljamel MS. Robotic applications in epilepsy surgery. *Int J Med Robot*. 2006; 2(3): 233-237.
- 5) Eljamel MS, Hofer M. From Letterbox to Keyhole Approach for Resecting Intracranial Lesions, *Stereot Funct Neurosurg*, 2004; 81: 30- 36.
- 6) Eljamel MS. Frameless Stereotactic Neurosurgery: Two Steps towards the holy Grail of surgical navigation. *Stereotact Funct Neurosurg*; 1999; 72(2-4): 125-128.
- 7) Eljamel MS. Developments in image-guided neurosurgery. *Hospital Medicine* 1999; 60(9), 686 (letter).
- 8) Eljamel MS. Accuracy, efficacy and clinical applications of the Radionics Operating Arm System. *Comput Aided Surg* 1997; 2(5): 292- 297. (full paper) <http://jws-edu.interscience.wiley.com:8088/cas/v2n5/292-abs.html>.

Neuro-oncology and Photodynamic Therapy:

- 9) Levack P, Allan L, Baker L, McLeay T, Houston G, Dewar J, Eljamel S, Grant R, Munro A. Coordination improves outcomes in malignant cord compression. *BMJ*. 2009 Jan 6;338:a3151.
- 10) Eljamel M.S. Fluorescence image guided surgery of brain tumours: Explained step by step. *Photodiag. Photodyn. Ther* 2008; 5:260-263.
- 11) Zilidis G, Aziz F, Telara S, Eljamel MS. Fluorescence image-guided surgery and repetitive photodynamic therapy in brain metastatic malignant melanoma. *Photodiag. Photodyn. Ther* 2008; 5:264-266.
- 12) Cuthbertson DJ, Ritchie D, Crooks D, Main G, Smith C, Vora J, Eljamel MS, Leese GP. Lymphocytic hypophysitis occurring simultaneously with a functioning pituitary adenoma. *Endocr J*. 2008 ;55:729-735.
- 13) Marchionni M, Smith C, Eljamel MS. Intracranial enterogenous cyst extending into both supratentorial and infratentorial compartments: case report and review of the literature. *Skull Base*. 2008;18:213-216.
- 14) Eljamel MS. Good man C, Moseley H. ALA and Photofrin(R) Fluorescence-guided resection and repetitive PDT in glioblastoma multiforme: a single centre Phase III randomised controlled trial. *Lasers Med Sci*. 2008; 23:361-367.
- 15) Moseley H, McLean C, Hockaday S, Eljamel S. *In vitro* light distributions from intracranial PDT balloons. *Photodiagnosis and Photodynamic Therapy* 2007; 4: 213- 220.
- 16) Armoogum K, Parry J, Mackay C, Thompson A, Vaidya J, Ackland C, Gardner J, Munro A, Eljamel S. Implementation and experiences of an intraoperative radiotherapy service. *Clin Oncol (R Coll Radiol)* 2007; 19(3): S8-9.
- 17) Montague ML, Eljamel MS, Hussain SS. Facial nerve schwannoma presenting as conductive hearing loss. *Otolaryng Head Neck Surg* 2005; 132(3): 509- 510.
- 18) Eljamel M Sam, Brain PDD and PDT unlocking the mystery of malignant gliomas. *Photodiagnosis and Photodynamic therapy* 2005; 1: 303- 310.
- 19) Eljamel M S. Photodynamic assisted surgical resection and treatment of malignant brain tumours technique, technology and clinical application. *Photodiagnosis and Photodynamic therapy* 2004; 1: 93- 98.
- 20) Eljamel MS. New Light on the Brain: The Role of Photosensitising Agents and Laser Light in the Management of Invasive Intracranial Tumours. *Technol Cancer Res Treat* 2003; 2(4): 303- 309.
- 21) Forbes RB, Eljamel MS. Meningeal Chondrosarcomas a review of 31 patients. *Br J Neurosurg* 1998; 12(5):461- 464.
- 22) Eljamel MS. Surgery for cavernous sinus meningiomas. *Surg Neurol* 1996; 46(6): 604-605.(letter)

- 23) Are CK, Eljamel MS, McConachie N, Viani L, Rawluk D. Acoustic neuromas: a review of 58 patients and correlation of tumor-size to the outcome. *Ir Med J*. 1995; 88(3): 104-105 (full paper).
- 24) Eljamel MS. Paragangliomas of the cauda equina. *Br J Neurosurg* 1992; 6(3): 279 (letter).
- 25) Eljamel MS, Foy PM, Findlay GF, MacKenzie JM. Paragangliomas of the cauda equina and backache, the problem of diagnosis, *Neuro-orthopaedics* 1990; 8: 107 – 110 (review).
- 26) Eljamel MS, Jeffreys RV. Mucus-Secreting Choroid Plexus adenoma- case report and review of the literature. *Neuropaediatrics* 1990; 21(1): 55 – 56 (review).
- 27) Eljamel MS. Multiple meningiomas. *J Neurosurg* 1990; 72(5), 834 - 835 (letter).
- 28) Eljamel MS. Foy PM. Multiple meningiomas and their relation to neurofibromatosis. Review of the literature and report of seven cases. *Surg Neurol* 1989; 32(2): 131- 136 (Review).

Functional, Psychsurgery, Epilepsy, Movement disorders:

- 29) Eljamel MS. Ablative neurosurgery for mental disorders: is there still a role in the 21st century? A personal perspective. *Neurosurg Focus*. 2008;25(1):E4.
- 30) Haridas A, Mathewson C, Eljamel S. Long-term results of 405 refractory trigeminal neuralgia surgeries in 256 patients. *Zentralbl Neurochir*. 2008;69(4):170-174.
- 31) Steele JD, Christmas D, Eljamel MS, Matthews K. Anterior Cingulotomy for major depression: clinical outcome and relationship to lesion characteristics. *Biological Psychiatry* 2007;
- 32) Ridout N, O'Carroll RE, Dritschel B, Christmas D, Eljamel M, Matthews K. Emotion recognition from dynamic emotional displays following anterior Cingulotomy and anterior Capsulotomy for chronic depression. *Neuropsychologia* 2007; 45: 1735-1745.
- 33) Christmas D, Curran S, Matthews K, Eljamel MS. Neurosurgery for mental disorders: vagus nerve stimulation and deep brain stimulation. *Psychiatry Psychiatric Treatment* 2006; 5-6: 212-216.
- 34) Christmas D, Crombie I, Eljamel M, Neurosurgery for obsessive compulsive disorders (Protocol). The Cochrane Database of Systematic Reviews 2005; Issue 4: Art No.:CD005560. DOI: 10.1002/14651858,CD005560.
- 35) Christmas D, Matthews K, Eljamel MS. Neurosurgery for mental disorder. *Br J Psychiatry* 2004; 185: 173- 174.
- 36) Christmas D, Morrison C, Eljamel MS, Mathews K, Neurosurgery for mental disorder. *Advances in Psychiatric Treatment* 2004; 10: 189- 199.
- 37) Kumar A, Felderhof C, Eljamel M S. Spinal Cord Stimulation (SCS) in the treatment of Refractory Unilateral Limb Pain Syndrome (RULPS). *Stereot Funct Neurosurg*, 2004; 83: 70- 74.
- 38) Mathews K, Eljamel MS. Vagus nerve stimulation and refractory depression please can you switch me on doctor?, Editorial. *Br J Psychiatry* 2003; 183: 181-183.
- 39) Christmas D, Eljamel MS, Matthews K. Adverse events following neurosurgery. *Br J Psychiatry* 2003; 183: 366- 367.
- 40) Forbes RB, Macdonald S, Eljamel MS, Roberts R. Cost-utility of vagus nerve stimulators for adults with medically refractory epilepsy. *Seizure* 2003; 12(5): 249- 256.
- 41) Matthews K, Eljamel MS. Status of neurosurgery for mental disorder in Scotland. Selective literature review and overview of current clinical activity. *Br J Psychiatry* 2003; 182: 404- 411.
- 42) Forster A, Eljamel MS, Varma TRK, Tulley M, Latimer M. Audit of Neurophysiological Recording during Movement Disorder Surgery, *Stereotact Funct Neurosurg*; 1999; 72(2-4): 154-156.
- 43) Eljamel MS, Forster A., Tulley M, Matthews K. Staged functional neurosurgery using image fusion, electronic atlas and micro-electrode recording at Dundee. *Stereotact Funct Neurosurg*; 1999, 73(1-4); 140- 142.

CSF leaks and other topics:

- 44) Couper GW, Boddie DE, Eljamel MS, Kaar GF. Unguarded electric plugs cause penetrating head injuries in children. *J Accid Emerg Med* 2000; 17(1): 55.
- 45) Delgado M, Doig C, Eljamel MS. The use of spring-eye needles in Neurosurgery. A survey of neurosurgical theatres in the United Kingdom. *Br J Neurosurg* 1998; 12(5): 438- 439.
- 46) Eljamel MS. Antibiotic Prophylaxis in the management of CSF fistula. *Surg. Neurol* 1998; 50(4): 387 (letter).
- 47) Eljamel MS. Bupivacaine in lumbar spine surgery. *Surg Neurol* 1998; 49(6): 671 (letter).
- 48) Eljamel MS. Neurosurgical manpower. Eljamel MS. *Surgical Neurology* 1998; 49(2): 234- 235. (letter)
- 49) Eljamel MS. MRI for CSF Rhinorrhoea. *Surg Neurol* 1997; 48(5): 533-4. (letter)
- 50) McConachie NS, Joseph BV, Eljamel MS, Stafford-Johnson DB. Magnetic resonance cisternography of cerebrospinal fluid otorrhoea. *International Journal of Neuroradiology* 1995; 1(2): 177- 181.(full paper)

- 51) Eljamel MS, Sharif S, Pidgeon CN. Total intraventricular migration of unisystem ventriculo-peritoneal shunt. *Acta Neurochir (Wien)* 1995; 136(3-4): 217- 218. (case report)
- 52) Eljamel MS, Ruptured Intracranial Aneurysms, *Br J Neurosurg.* 1995; 9(1): 107. (letter)
- 53) Eljamel M.S, Pidgeon C.N. Localization of Inactive cerebrospinal fluid fistulas. *J Neurosurg*, 1995; 83(5): 795-798 (full paper).
- 54) Eljamel M.S., Posttraumatic myelopathy, *Br J Neurosurg.* 1994; 8(6): 765-767 (Letter).
- 55) Eljamel MS. CSF diversion in CSF fistulae. *J Neurol Neurosurg Psychiatry* 1995; 58(5): 645 (letter).
- 56) Eljamel M.S. Anticonvulsant and Antibiotic prophylaxis in head injuries. *Ann R Coll Surg Eng* 1994; 76(5): 353- 354 (letter).
- 57) Carroll M, Eljamel MS, Cuningham A.J. Ferrous distortion during MRI. *Br.J. Anaesh*, 1994; 72(6): 727- 728.(letter).
- 58) Eljamel MS. Fractures of the middle third of the face and CSF fistulae. *Br J Neurosurg* 1994; 8(7): 289- 294 (full paper).
- 59) Eljamel MS, Pidgeon CN, Tofand J, Phillips JB, O'Dwyer A. MRI Cisternography in CSF Fistulae localisation. *Br J Neurosurg* 1994; 8(4): 433- 437 (full paper)
- 60) Eljamel MS. The human genome theory, *The Science.* May/June 1994 (letter).
- 61) Eljamel MS. Antibiotic prophylaxis in CSF fistulae. *Br J Neurosurg* 1993; 7(5): 501- 506 (full paper).
- 62) Eljamel MS, Waring DJ. The Paragon Immunofixation for CSF identification. *Biomed SCI* 1993; 4 (2): 43- 45 (full paper).
- 63) Eljamel MS, Nixon T. The use of a computer-based image link system to assist inter-hospital referrals. *Br J Neurosurg* 1992; 6(6): 559-562 (full paper).
- 64) Eljamel MS, Foy PM, Swift A, McFarlane I. Rhinorrhoea complicating Bromocriptine therapy. *Surg Neurol* 1992; 38(4): 321 (letter).
- 65) Eljamel MS, Foy PM. Non-traumatic CSF fistulae: clinical history and management. *Br J Neurosurg* 1991; 5(3): 275 – 79 (full paper).
- 66) Eljamel MS. The role of Surgery and B2-Transferrin in the management of CSF Fistulae. MD. Thesis, Eljamel MS. Liverpool University, 1991 (THESIS).
- 67) Eljamel MS. Foy PM. Acute Cerebrospinal fluid fistulae, the risk of intra-cranial infections. *Br J Neurosurg* 1990; 4(5): 381- 385 (full paper).
- 68) Eljamel MS. Foy PM. Post-traumatic CSF Fistulae, the case for surgical repair. *Br J Neurosurg* 1990; 4(6): 479 – 483 (full paper).
- 69) Eljamel MS, Humphrey PRD, Shaw MDM. Dissection of the cervical internal carotid artery. The role of Doppler/duplex studies and conservative management. *J Neurol Neurosurg Psychiatry* 1989; 53(5): 379 – 83 (full paper).
- 70) Eljamel MS, Rugman FP. Extradural haematoma associated with essential thrombocythaemia in a child after a relatively minor head injury. *Injury* 1989; 20(4): 236-244, (case report).
- 71) Eljamel MS. Liquid extradural haematomas on CT scan. *Surg Neurol* 1989; 32(1): 81 - 82 (letter).

Books, book chapters and other publications:

- 72) Eljamel MS. MoD Synopsis: Prolapsed lumbar disc In: Department of Defence Synopsis series, 2006.
- 73) Eljamel MS. Chapter 1: Robotic applications in neurosurgery In: Medical Robotics, Alksandar Lazinica (ed), Wien, Advances Robotic Systems International & Pro Verlag 2007.
- 74) Eljamel MS. Chapter 27: PDT in pituitary adenomas In: Advances in photodynamic therapy: Basic, Translational and Clinical, Michael R Hamblin et al (Eds) 2007.
- 75) Eljamel MS. Chapter 26: PDT in brain cancer: Advances in photodynamic therapy: Basic, Translational and Clinical, Michael R Hamblin et al (Eds) 2007.
- 76) *Christmas D, Eljamel MS, Matthews K.(2005)* Neurosurgical Treatments for Obsessive-Compulsive Disorder In: Obsessive Compulsive Disorder Research, B Ling (ed), pp 145- 169, Hauppauge, NY, Nova Science Publishers, Inc.
- 77) Matthews K, Eljamel MS. Neurosurgery for mental disorders (NMD), December 2003 Report, The Scottish Executive Website 2003 (www.show.scot.nhs.co.uk/mhwbbsg).
- 78) Matthews K, Eljamel MS. Neurosurgery for mental disorders (NMD), December 2001 Report to the Scottish Executive. (www.show.scot.nhs.co.uk/mhwbbsg).
- 79) Eljamel MS (1992). The Role of Surgery & B2-transferrin in the management of CSF fistulae. MD Thesis, the University of Liverpool.
- 80) Review in Neurosciences, Book & CD-Rom. MS Eljamel(Ed), 1996 First Ed.
- 81) Review in Neurosciences, Book & CD-Rom. MS Eljamel(Ed), 1998, Second Ed., Dundee.

82) Eljamel MS (2002). Intracranial brain tumours. In: Clinical Medicine Prof. C Forbes (Editor).

Published Abstracts in peer reviewed journals:

- 1- Liaquat L, Parry J, Mowle D, Ballantyne E, Munto A, Eljamel S. Mobile intraoperative radiotherapy in malignant brain tumours; early results. *Acta Neurochir (Wien)* 2007; I-CCXXVII, PF 15-4.
- 2- Eljamel MS, Leese G, Moseley H. Photodiagnosis and photodynamic therapy in pituitary adenomas. *Skull Base (Suppl 1)* 2006; 16: 16-17.
- 3- Eljamel Sam, Samelis A, Quyn A, The retrosegmoid approach and postoperative headache; reappraisal using Image guided technology and bone dust for closure. *Skull Base* 2004; 14 (Suppl): 13.
- 4- Eljamel Sam, Rao R, Leese G, The development of Cushing disease after cured acromegaly, case report. *Skull Base* 2004; 14 (Suppl); 37.
- 5- Eljamel MS. Photodynamic therapy in invasive pituitary adenomas, early experience. *Skull Base Surgery* 2003; 13 (suppl):13.
- 6- Haridas A, Kumar A, Sangra R, Eljamel S; Trigeminal neuralgia, long-term results of surgical intervention. *Skull Base Surgery* 2003; 13(suppl): 13.
- 7- Eljamel MS, Jung R. Acromegalic giant, a management challenge? *Skull Base Surgery* 2002; 12 (suppl).
- 8- Nassan A, Eljamel MS, The use of temporalis muscle for facial reanimation surgery; antegrade vs retrograde transfer, a comparative study. *Skull Base Surgery* 2002; 12 (suppl).
- 9- Eljamel MS. SMN neuronavigation accuracy in different skull base approaches. *Skull Base Surgery* 2002; 12 (suppl).
- 10- Eljamel MS. Neuronavigation; does MRI sequence alter the accuracy. *Skull Base Surgery* 2001; 11(suppl 1): 12.
- 11- Eljamel MS. Computer assisted surgery in the management of pituitary adenomas, *Skull Base Surgery* 2001; 11(suppl 1): 12.
- 12- Eljamel MS. Computer assisted surgery and neurophysiological monitoring during CPA surgery. *Skull Base Surgery* 2001; 11(suppl 1): 12-13.
- 13- Samandouras G, Eljamel MS. Frameless cranial neuronavigation, experience with 332 consecutive cases, *Skull Base Surgery* 2001; 11(suppl 1): 27.
- 14- Eljamel MS, Caussey VB. Computer assisted minimal access microsurgery in gigantic ACF meningiomas, *Skull Base Surgery* 2000; 10(Suppl1): 8.
- 15- Eljamel MS, Goyal K, MRI prediction of the surgical outcome in benign intracranial Mass lesions, *Skull Base Surgery* 2000; 10(Suppl1): 8.
- 16- Samandouras G, Eljamel MS From frames based to frameless brain biopsies, the end of millennium and the beginning of another. *Skull Base Surgery* 2000; 10(Suppl1): 8.
- 17- Eljamel MS, Mohamed AH. Spinal accessory schwannoma presenting with foramen magnum syndrome. *Skull Base Surgery* 1999; 9 (suppl 1); 10.
- 18- Eljamel MS, Court F. Cystic sacral schwannoma presenting as a pelvic mass. *Skull Base Surgery* 1999; 10 (suppl 1): 9.
- 19- Eljamel M S. A new C1/2 posterior fixation device. *Skull Base Surgery* 1999; 9 (suppl 1): 10.
- 20- Eljamel MS, Ganesalingam N, Cheung T. A Comparison of the mechanical visual analogue scale and the numerical rating scale in measuring clinical pain, a case control study. *Skull Base Surgery* 1999; 9 (suppl 1): 9.
- 21- Eljamel MS, Samandouras G. Mechanical or visual reality in computer aided neurosurgery: a comparison between a mechanical and a virtual pointer. *Skull Base Surgery* 1999; 9 (suppl 1): 9.
- 22- Eljamel MS, Milne AW, Brennan J, Alsanjari. Langhans' cell histiocytosis presenting with bilateral meatal stenosis. *Skull base Surgery* 1998; 8 (suppl 1): 11.
- 23- Eljamel MS, Littlechild P. Frameless stereotactic surgery in anterior cervical surgery. *Skull Base Surgery* 1998; 8 (suppl 1):11.
- 24- Eljamel MS. Neuronavigation and skull base and parasagittal ntracranial surgery. *Skull Base Surgery* 1998; 8 (suppl 1): 10-11.
- 25- Forbes R B, Eljamel MS, Varma TRK. Early experience with the Radionics Operating Arm system. *Acta Neurochir* 1996; 136(5): 630.
- 26- Sharif S, Eljamel MS, Pidgeon CN. Syringomyelia; a review of 51 patients. *J Neurol Neurosurg Psychiatry* 1995.
- 27- Sharif S, Eljamel MS, Pidgeon CN. Syringomyelia; a review of 51 patients. *Irish J Med. SCI* 1994; 163: 28.

- 28- Eljamel MS, Allcutt D, Pidgeon CN, Phillips J, Rawluk D, Young S, Toland J. Recurrent meningitis, Which imaging modality (CT or MRI)? Irish J Med. SCI 1994; 163, 27.
- 29- Eljamel M.S., Rawluk D. Free versus osteoplastic flap craniotomy. A prospective, randomised trial. J Neurol Neurosurg Psychiatry 1995; 58.
- 30- Eljamel MS, Pidgeon CN, Toland J, Phillips J, O'Dwyer A. MRI-cisternography in CSF fistulae's localisation. J.Neurol Neurosurg Psychiatry 1993; 56: 1332.
- 31- Eljamel MS. CSF Fistulae diagnosis, The Paragon® Immunofixation technique Irish J Med. SCI 1993; 162: 29.
- 32- Eljamel MS. CSF Fistulae diagnosis, The Paragon® Immunofixation technique J. Neurol Neurosurg Psychiatry 1993; 56: 223-224.
- 33- Eljamel MS. Antibiotic Prophylaxis in CSF fistulae, Is it a fact or a fiction? Irish J Med. SCI 1993; 163: November 1993.
- 34- Dean J, Eljamel MS. The role of the autonomic nervous system in the sciatic syndrome. Clinical Autonomic Research 1992; 1: 83.
- 35- Eljamel MS, Foy PM. Cerebro-spinal fluid (CSF) Fistulae, the case for surgical repair. J.Neurol.Neurosurg Psychiatry 1990; 53: 810-811.
- 36- Eljamel MS, Humphrey PRD, Shaw MD. Spontaneous dissection of the Cervical Internal Carotid Artery, the role of Doppler/Duplex Scanning Year Book of Vascular Surgery, 1990, Vol 2, No.9.
- 37- Eljamel MS, Humphrey PRD, Shaw MD. Spontaneous dissection of the Cervical Internal Carotid Artery, the role of Doppler/Duplex Scanning J. Neurol, Neurosurg Psychiatry 1989; 52: 1461- 1462.

Other published work:

- 1- Eljamel MS. Surgical advances in Parkinson Disease Treatment: part I , Parkinson Disease Society's spring newsletter, 2006.
- 2- Eljamel MS. Surgical advances in Parkinson Disease Treatment: part II , Parkinson Disease Society's summer newsletter, 2006.
- 3- Eljamel MS. Surgical advances in Parkinson Disease Treatment: part III, Parkinson Disease Society's Autumn newsletter, 2006.

Research trials;

- a) The Surgical Trial in lobar Intracerebral Haemorrhage II (STICHII) Trial Multicentre prospective international trial MRC funded – 2006-ongoing.
- My role was the local Principal Investigator.
- b) The role of Photodynamic therapy in the management of invasive intracranial tumours – 2001-2012.
- Chief Investigator, grant holder and study design.
- c) The role of Intra-operative radiosurgery in the management of invasive intracranial tumours – 2001-2005.
- Chief Investigator, grant holder and study design.
- d) PDSurg Trial, multicentre prospective controlled trial of Deep Brain Stimulation in Parkinson's disease – MRC funded – deep brain stimulation vs best medical therapy for 12 months, prospective randomised trial.
- Local Principal Investigator 2000-2006.
- e) The Surgical Treatment of Spontaneous Intracerebral Haemorrhage (STICH) Trial and the STICHES (STICH Economics) Multicentre prospective international trial MRC funded – 1996-2003.
- My role was the local Principal Investigator.
- f) The CRASH trial in head injuries – Multicentre international MRC funded trial 2002 to 2005.
- My role was the local Principal Investigator.
- g) Phase I, International multicentre trial of CCI-779 (2002/3) Safety and tolerability and pharmacokinetics of weekly intravenous administration of CCI-779 in patients with advanced solid cerebral tumors.
- Local co-investigator – commercial.
- h) D-03 Prospective multicentre evaluation of vagus nerve stimulation in treatment refractory depression 2005-2006.
- Local co-investigator – commercial.

- i) Functional neurosurgery for PD; effects on motor and neuropsychological performance, social function and quality of life 2000-2003.
- local co-investigator – commercial.
- j) Cognitive function after deep brain stimulation (1999-03)
- co-investigator.
- k) A prospective randomised evaluation of three neurosurgical treatments for chronic treatment refractory depression: ant cing, ant cap and VNS.
- co-investigator.
- l) The Role of MRI Cisternography in localisation of CSF Fistulae (1992-93)
- Design & Primary Investigator.
- m) Randomised trial comparing free flap & osteoplastic flap craniotomy (1992-93)
- Design and Primary Investigator.
- n) The Role of Calcitonin in Severe head injuries (1993).
- Multicentre Trial – Participant.
- o) Audit of Frameless Stereotactic Neurosurgery 1996-2003.
- Design, Grant holder & Chief Investigator.
- p) The Role of Paragon in Confirmation of CSF Leakage (1990-91)
- Design, Grant holder & Chief Investigator.
- q) The Role of Trans-Cranial Doppler in the diagnosis of Brain Death 1990-91.
- Design & Chief Investigator.

Grant Support & Fundraising:

- 1.2007 Anonymous donation –£20,090.00 for brain tumor research.
- 2.2007 Anonymous donation - £386.50.
- 3.2006 Anonymous donation - £20,000.00 for tumour research in brain.
- 4.2005-2007 Northwood Charitable Trust. The PathFinder Robotic Arm project, M Sam Eljamel, £25,000. Neuroscience related.
- 5.2005-2007 Ninewells Cancer Campaign. The PathFinder Robotic Arm project, M Sam Eljamel, £175,000. Neuroscience related.
- 6.2005-2007 The Lethendy Charitable Trust. The PathFinder Robotic Arm project, M Sam Eljamel, £5,000. Neuroscience related.
- 7.2005-2007 The anonymous trust. The development of Optical Tumour Fluorescence Detection System, M Sam Eljamel, H Moseley & Ron Buist, £9,700. Neuroscience & cancer related.
- 8.2001-2004 The Barbara Stewart Cancer Trust. Photodynamic Diagnosis/ Therapy in brain tumours trial. M Sam Eljamel, £20,000. Neuroscience & cancer related.
Anonymous donor. Parkinson's disease research. M Sam Eljamel, £2,500.
- 9.2004-2005 Neuroscience related.
The DRNSU charitable fund. Purchase of flat screen wall mounted. M Sam Eljamel, E. Ballantyne & D Mowle £3,167. Neuroscience related.
Anonymous Trust, MRI spectroscopy for DBS patients, Houston G, Matthews K, Eljamel MS, £9000.
- 11. 2003 Ninewells Cancer Campaign. The Role of Photo-electron Radiosurgery Trial, M Sam Eljamel, £547,116.73. Neuroscience & cancer related.
- 12. 2004-2007 The Neurosurgery Endowments. The Stealth Station IGS project. M Sam Eljamel, £120,000. Neuroscience & cancer related.
The Cavitron Fund. The Stealth Station IGS Phazer project. M Sam Eljamel, £11,000. Neuroscience & cancer related.
- 13. 2002-2003 Anonymous Donors, The Trophic Facial Stimulators project. M Sam Eljamel, £3,000. Neuroscience related.
- 14. 2002 Anonymous donors, The tilt spinal bed project, M Sam Eljamel, £15,000.
- 15. 2001 Neuroscience related.
- 16. 2000 Anonymous donors, the Neuroendoscopy project. M Sam Eljamel, £25,000.
- 17. 1999 Neuroscience related.
Tayside Audit Committee, Stereotactic audit project. M Sam Eljamel, £500.
- 18. 1997 Neuroscience related.

Invited Lectures and Visiting Professorships:

- 1- MRI value for stereotactic and image guided neurosurgery, 21st Scottish MRI Seminar, May 28th 2008.
- 2- Stereotactic and Deep Brain Stimulation for Parkinson's Disease – Tayisde PD Group – Kingscross Hospital, 2008.
- 3- Procedures fro the spine: Cervical and Thoracic. Caird Hall, Dundee, 2nd Sept 2007. The Scottish Association of Osteopathy.
- 4- Tumor Fluorescence Guided Resection and Fractionated Photo Irradiation in Glioblastomas, at the 11th International Photodynamic Meeting (IPA), Shanghai, China 2007.
- 5- Robotic applications in neurosurgery at Robotics and Computer Assisted Surgery, London, Institute of Engineering November 8th 2006.
- 6- PD and PDT in Invasive Brain Tumors: the Dundee experience at the 6th International Symposium on Photodynamic diagnosis and Therapy in Clinical Practice, October 10-14, 2006, Brixen, Italy.
- 7- Advances in neurosurgery at The St Andrews Neurosciences Society, St Andrews, October 2006.
- 8- Surgery for dystonia at the 8th Dystonia Nurse meeting, Glasgow, September 29th 2006.
- 9- The Surgical Spine, invited lecture at the GP forum study day in St Andrews, Jun 14 2006.
- 10- Advances in the surgical treatment of Parkinson's disease at the |Institute of Physics, London December 8-9, 2005.
- 11- PDT and PD in brain tumors at the 10th World Congress of the IPA, June 22-25, 2005, Munchen, Germany.
- 12- PDD & PDT unlocking the mystery of brain tumours, The Royal Society of Medicine, London, PDT in the 21st Century April 14th 2005.
- 13- PDT in brain tumors, Scottish Parliament sponsored seminar, the Hub, Edinburgh Apr 24th 2004.
- 14- Neurosuregery for Dystonia, the Dystonia Association of Great Britain & Ireland, Perth 2004.
- 15- PDD/PDT in Brain, a new hope. The International Workshop on PDT, Brixen, Italy, Oct 2003.
- 16- PDT in Brain tumours. The Annual Neurosceinces Nurses Conference, Dundee 2003.
- 17- Who is Brain Anyway? Which CSF leaks are not suitable for trans-nasal endoscopic repair? The International Otolaryngology Conference (BACO) Birmingham 2003.
- 18- Recent Advances in Parkinson's disease Surgery, PD Society of the UK, Coventry 2003.
- 19- Surgical Treatment of PD, PD research meeting, Ninewells 2003.
- 20- The ETS cube at the NHS Tayside intellectual property seminar March 2002.
- 21- Why do you want to be a doctor, surgeon? The Medical School Open day 2001/2002/2003/2004/2005/2006/2007 and Perth Academy careers fair 2001.
- 22- Anterolateral Cordotomy, a Novel therapy or an Ondine's Curse? Ninewells Pain Group meeting 2001.
- 23- Surgical management of pain. The European day against pain.
- 24- Brain Navigation, how to get there? European brain awareness week, March 2001, 2002.
- 25- Lumbar disc microsurgery, MCh course at Dundee University, 2001, 2002.
- 26- Spinal Trauma, cervical region, MCh course at Dundee University, 2001, 2002.
- 27- PDT in brain tumours. West Park Scottish Seminar, 2002.
- 28- Recent advances of Parkinson's disease surgery, Stirling, Scotland, May 2001.
- 29- Recent advances of Parkinson's disease surgery, Falkirk, Scotland, May 2001.
- 30- Management of head injuries. West Park, Dundee, 2001.
- 31- Recent advances of Parkinson's disease surgery, Aberdeen, Scotland, March 2001.
- 32- Recent advances in Parkinson's disease surgery, Drymen, Scotland, Feb 2001.
- 33- Spinal Trauma management, Orthopaedics, Ninewells Hospital, 1999.
- 34- Treatment of Parkinson's Disease, Grand round Ninewells Hospital, 1999.
- 35- Surgical Treatment of the Rheumatoid Spine, Rheumatology, Ninewells 1999.
- 36- CSF fistulae update, Westmidlands ENT PG meeting, Birmingham 1998.
- 37- University of San Diego, San Diego, CA, 1997 "Neuronavigation in Neurosurgery".
- 38- The Scottish MRI user group, Dundee, 1997 "Neuronavigation & MRI in Skull base Surgery"
- 39- The Visiting ENT surgeons meeting, Perth, 1996."CSF fistulae localisation"
- 40- The Hartford Hospital Grand Round, Hartford, CT 1996 "Neuronavigation & neurosurgery" – vesting professor.
- 41- The International Neuronavigation Workshop, Dundee, UK, 1996 "The Radionics Operating Arm System, how I do it session?"
- 42- The International Neuronavigation Workshop, Dundee, UK, 1996 "The LINAC based stereotactic radiosurgery"
- 43- The Spinal Course, Dublin, Ireland, 1994 "Epidural Spinal Abscesses"

- 44- The Surgical Video Presentation, Dublin, Ireland, 1994. "Transphenoidal Pituitary Surgery - Video clinic".
- 45- The Head Injury Symposium , Dublin, Ireland, 1993 "Interhospital Transfer of head injured patients"

Scientific Reviewer:

- Peer review for scientific journals:
 - i. Journal of Neuro-oncology (5)
 - ii. International Journal of Robotics and Computer Assisted Surgery (3)
 - iii. BMJ (3).
 - iv. The Lancet (1)
 - v. British Journal of Neurosurgery (20).
 - vi. Journal of Neurology, Neurosurgery and Psychiatry (4)
 - vii. British Journal of Gynae and Obst. (2)
 - viii. Photodiagnosis and Photodynamic Therapy (1)
 - ix. Surgical Endoscopy (4).
 - x. Scottish Medical Journal (2).
 - xi. Annals of Neurosurgery (5).
 - xii. Engineering in Medicine and Biology Magazine (1).
- Grant Evaluations:
 - i. The Alzheimer's disease society.
 - ii. Parkinson disease Society.
 - iii. Chief Scientist Office in Scotland.
 - iv. R&D office – Tayside.
 - v. Leuvern University – Belgium.

EDITORIAL ROLES:

- Member of Editorial Board of Photodiagnosis and Photodynamic Therapy Journal from 2005.
- Member of Editorial Board of of Annals of Neurosurgery , online free journal from its inception.
- 1996: Editor of the First Edition of Review in Neurosciences – CD-ROM.
- 1998: Editor of the Second Edition of Review in Neurosciences – CD-ROM.
- 1998: Editor of the fifth Neurosurgical Quiz (http://www.sunsite.unc.edu/Neuro/quiz/quiz_5.html).
- 1995 to present: Editor of the Dundee Virtual Neurosurgical Index (<http://www.dundee.ac.uk/neurosurgery/>) and member of the Web Administrators Group at the University of Dundee.
- 1998 to 2002 Editor of the Society of British Neurological Surgeons' home pages, (<http://www.dundee.ac.uk/neurosurgery/~sbns.htm>). From 2002 member of the committee.

INVENTIONS & PATENTS:

Invention / Design	Year
Implantable Stereotactic cube for targeting deep brain structures	Patented by NHS Tayside 2003 Patent No. W003039386 Application No. W02002GB05077 20011108 IPC: A61B19/00 A61M1/00 A61B17/34 A61B19/00B2.
Stereotactic Microdrive for micro-electrode brain mapping	Patented by NHS Tayside 2003 Patent No. W003039386 Application No. W02002GB05077 20011108 IPC: A61B19/00 A61M1/00

	A61B17/34 A61B19/00B2.
Electrode holder for DBS lead	2004
Combo microsuction-root retractor for microdisectomy.	2004
Motor Cortex Stimulation electrode	2003
Intracavity PDT delivery system in brain.	2004
Frameless stereotactic guidance biopsy system.	Published in 1997.
Minimally invasive spinal surgery retractor system.	2004
Photodynamic Diagnosis system – Laser based and Microscope based	2004 – 2005 in use
Registration plate for PathFinder Robot	2006 in use.
Re-locatable registration fixator to the PathFinder Robot	2007

Presentations to scientific meetings:

- 1- Eljamel MS, Humphrey PRD, Shaw MD. Spontaneous Dissection of the Cervical Internal Carotid Artery, the role of Doppler/Duplex Scanning. Presented to the Association of British Neurologists - London - September 1988, Society of British Neurological Surgeons - Salford - April 1989 & European Stroke meeting - Germany - 1990 (Poster).
 - Abstract in J. Neurol, Neurosurg Psychiatry 1989; 52: 1461- 1462.
 - Abstract in Year Book of Vascular Surgery, 1990, Vol 2, No.9.
- 2- Eljamel MS, Foy PM. Cerebro-spinal fluid (CSF) Fistulae, the case for surgical repair. Presented to the: Society of British Neurological Surgeons - Bristol - April 1990.
 - Abstract in J.Neurol.Neurosurg. Psychiatry.1990; 53: 810-811.
- 3- Dean J, Eljamel MS. The role of the autonomic nervous system in the sciatic syndrome. Presented to the: Autonomic Nervous System Research Group - London -1990. Autonomic Research meeting - Montreal - Canada 1991
 - Abstract in Clinical Autonomic Research 1992; 1: 83.
- 4- Eljamel MS. Antibiotic Prophylaxis in CSF fistulae, Is it a fact or a fiction? Presented to the: North of England Neurological Association - 1991- Beaumont Hospital Scientific meeting - April – 1992- Irish Neurological Association - Dublin - May 1992 .
 - Abstract in Irish J Med. SCI 1993; 162: 29.
 - Eljamel MS, Nixon T. New technology to revolutionise inter-hospital transfer. Presented to the: Royal Academy of Medicine - Surgical Section - March 1992.
- 5- Eljamel MS CSF Fistulae diagnosis, The Paragon Immunofixation technique. Presented to the, Society of British Neurological Surgeons & the Neurosurgical Swiss Society - Lausanne - May 1992, National Medical Meeting RCPI - Dublin - March 1993.
 - Abstract in J. Neurol Neurosurg Psychiatry 1993; 56:,223-224.
 - Abstract in Irish J Med. SCI 1993; 163: 29.
- 6- Eljamel MS, Pidgeon CN, Toland J, Phillips J, O'Dwyer A. MRI-Cisternography in CSF fistulae's localisation. Presented to the: Beaumont Hospital Scientific Meeting March 1993. Society of British Neurological Surgeons - Nottingham 1993. Neurological Association - Belfast 1993
 - Abstract in J.Neurol Neurosurg Psychiatry 1993; 56: 1332.
- 7- Eljamel M.S Transcranial Doppler Ultrasound (TCD) following Pupillary paralysis. Presented to the: Neuro-Sciences Group Meeting in Trinity College of Dublin. November 93.
- 8- Sharif S., Eljamel M.S., Pidgeon C.N. Extraskletal Mesenchymal Chondrosarcoma of the Spine, case report and review of the literature. Presented in the: Neuro-Sciences Group Meeting in Trinity College of Dublin - November 1993. (Poster).
- 9- Eljamel M.S., Nagaria J, Pidgeon C.N. Key-Hole Brain Biopsy. Which Technique? Presented to the: British Stereotactic Group meeting. April 1994. Irish Neurological Association - Galway - May 1994.
- 10- Eljamel M.S., Rawluk D. Free versus Osteoplastic Flap Craniotomy. A prospective, randomised trial. Presented to the Society of British Neurological Surgeons meeting, London 1994.

- Abstract in Journal of Neurol Neurosurg Psychiatry 1995; 58.
- 11- Eljamel MS, Allcutt D, Pidgeon CN, Phillips J, Rawluk D, Young S, Toland J. Recurrent Meningitis, Which imaging modality (CT or MRI)? Presented to the: National Medical Scientific Meeting, Dublin 1994.(Poster).
- Abstract in Irish J Med. SCI 1994; 163: 27.
- 12- Sharif S, Eljamel MS, Pidgeon CN. Syringomyelia; a review of 51, patients. Presented to the: National Medical Scientific Meeting, Dublin 1994.(Poster). Irish Neurological Association - Galway - May 1994. Society of British Neurological Surgeons - Dundee – 1994.
- Abstract in Irish J Med. SCI 1994; 163: 28.
- Abstract in J Neurol Neurosurg Psychiatry 1995; 58.
- 13- Are C-K, Eljamel MS, MacConchie N, Viani L, Rawluk D. Acoustic Neuroma, a review of 56 patients and correlation of tumour Size to outcome. Presented to the: National Medical Scientific Meeting, Dublin, 1994.(Poster). Royal Academy of Medicine - surgical section Limerick 1994. Irish Neurological Association - Galway - May 1994.
- 14- Eljamel MS, Pituitary Surgery - Trans-Sphenoidal approach. Video presentation to the Surgical Speciality Video Meeting, May 1994.
- 15- Eljamel MS, Ophthalmological presentations of intra-cranial lesions, Invited lecture to Ophthalmology Postgraduate Meeting, Ninewells Hospital, Dundee, March 1996.
- 16- Forbes RB, Eljamel MS, Varma TRK, Frameless stereotactic Neurosurgery in Dundee. Poster presentation to the European Stereotactic Society, Milan, June, 1996 – poster.
- Abstract in Acta Neurochir 1996; 136(5): 630.
- 17- Forbes RB, Eljamel MS, Varma TRK, Frameless stereotactic Neurosurgery in Dundee. Oral presentation to the Scottish Association of Neurological Sciences, Dunkeld, 1996.
- 18- Forbes RB, Eljamel MS, Varma TRK, Frameless stereotactic Neurosurgery in Dundee. Oral presentation to the International Neuronavigation Workshop, Dundee, Oct., 1996.
- 19- Littlechild P, Eljamel MS. Neuronavigation in the cervical spine. Oral presentation to the International Neuronavigation Workshop, Dundee, Oct., 1996.
- 20- Eljamel MS. Radiosurgery, techniques and indications. Oral presentation to the Scottish Association of Neurological Sciences, Dunkeld, 1996.
- 21- Littlechild P, Eljamel MS, Manthri P. Lumbar microdiscectomy under spinal anaesthesia. Oral presentation to Society of British Neurological Surgeons and The American Neurosurgical Society meeting in Cambridge 1997.
- 22- Littlechild P, Eljamel MS. Neuronavigation in the cervical spine. Poster presentation to the European Stereotactic Society meeting in Lyon, France 1997.
- 23- Littlechild P, Eljamel MS. Neuronavigation in the cervical spine. Poster presentation to the SANS meeting, Dunkeld 1997, Poster
- 24- Alhouli A, Eljamel MS. Non-neurosurgical complications of subarachnoid haemorrhage. SANS meeting, Dunkeld 1997, Poster.
- 25- Eljamel MS. The Accuracy & Efficacy of The Radionics Operating Arm in Neurosurgery. SANS meeting, Dunkeld 1997.
- 26- Delgado M, Doig C, Eljamel MS. The use of Spring-eye needles in Neurosurgery. SANS meeting, Dunkeld 1997.
- 27- MacLeod W, Cheing T, Eljamel MS. Comparison of the Mechanical Visual analogue scale and the Numerical Rating Scale in measuring clinical pain. SANS meeting, Dunkeld 1997.
- 28- Eljamel MS, Parrott J. Efficacy, Accuracy and applications of an arm based image guidance system, SBNS/Polish society meeting, Sheffield, April 1998.
- Abstract in J Neurol Neurosurg Psychiatry 1998; 61.
- 29- Eljamel MS. Neuronavigation and skull base and parasagittal intracranial surgery. Presented (oral) at 9th annual meeting of NASBS in Waikoloa Village, Hawaii, 1998.
- Abstract in Skull Base Surgery 1998; 8 (suppl 1): 10-11.
- 30- Eljamel MS, Littlechild P. Frameless stereotactic surgery in anterior cervical surgery. Presented (oral) at 9th annual meeting of NASBS in Waikoloa Village, Hawaii, 1998.
- Abstract in Skull Base Surgery 1998; 8 (suppl 1):11.
- 31- Eljamel MS, Milne AW, Brennan J, Alsanjari. Langhans' cell histiocytosis presenting with bilateral meatal stenosis. Presented (oral) at 9th annual meeting of NASBS in Waikoloa Village, Hawaii, 1998.
- Abstract in Skull Base Surgery 1998; 8 (suppl 1): 11.
- 32- Eljamel MS. Frameless stereotaxy; principles, past, present and the future? SANS annual meeting, Dunkeld 1998.
- 33- Samandouras G, Eljamel MS. Comparison of mechanical and optical tracking system in computer assisted neurosurgery. SBNS, Brighton, September 1998.

- Abstract J Neurol Neurosurg Psychiatry 1998; 61.
- 34- Eljamel MS. Frameless Stereotactic Neurosurgery: two steps towards the holy grail of surgical navigation. American Society of Stereotactic & Functional Neurosurgery, Snowbird, Utah 1999.
- 35- Forster A, Eljamel MS, Tulley M, Latimer M. Audit of neurophysiological recording during movement disorder surgery. American Society of Stereotactic & Functional Neurosurgery, Snowbird, Utah 1999.
- 36- Eljamel MS, Foster A, Tulley M, Matthews K. Staged functional neurosurgery using image fusion, electronic atlas and microelectrode recording. American Society of Stereotactic & Functional Neurosurgery, Snowbird, Utah 1999.
- 37- Eljamel MS, Caussey VB, Computer assisted minimal access microsurgery in gigantic ACF meningiomas, NASBS, March 2000, USA -poster.
 - Abstract in Skull Base Surgery 2000; 10(Suppl1): 8.
- 38- Eljamel MS, K Goyal, MRI prediction of the surgical outcome in benign intracranial Mass lesions, NASBS, March 2000 - oral.
 - Abstract in Skull Base Surgery 2000; 10(Suppl1): 3.
- 39- Samandouras G, Eljamel MS. From frames based to frameless brain biopsies, the end of millennium and the beginning of another, NASBS, March 2000.
 - Abstract in Skull Base Surgery 2000; 10(Suppl1): 8.
- 40- Eljamel MS, Does volume improve the Outcome in Neurosurgery, SANS, Dunkeld 2000- oral.
- 41- Eljamel MS, Neuronavigation; does MRI sequence alter the accuracy, NASBS, Orlando 2001- oral.
 - Abstract Skull Base Surgery 2001; 11(suppl 1): 12.
- 42- Eljamel MS, Computer assisted surgery in the management of pituitary adenomas, NASBS, Orlando 2001- oral.
 - Abstract Skull Base Surgery 2001; 11(suppl 1): 12.
- 43- Eljamel MS, Computer assisted surgery and neurophysiological monitoring during CPA surgery, NASBS, Orlando 2001- oral.
 - Abstract Skull Base Surgery 2001; 11(suppl 1): 12-23.
- 44- Samandouras, G Eljamel MS, Frameless cranial neuronavigation, experience with 332 consecutive cases, NASBS, Orlando 2001- oral.
 - Abstract Skull Base Surgery 2001; 11(suppl 1): 27.
- 45- Eljamel MS, How reliable is neuro-imaging localisation of intracranial targets?, SANS, Dunkeld 2001 - oral.
- 46- Forbes RB, McDonald P, Eljamel MS, Roberts R. The cost effectiveness of Vagus Nerve Stimulation in the treatment refractory epilepsy. SANS 2001- oral.
- 47- Eljamel MS. Does volume improve outcome of surgery in Neurosurgical practice?, Congress of Neurological Surgery, San Diego 2001- oral.
- 48- Eljamel MS, Anatomical localisation of the functional target for movement disorders, mission impossible III? Congress of Neurological Surgery, San Diego 2001-oral.
- 49- Eljamel MS, Patient selection for Motor Cortex Stimulation in thalamic pain, Congress of Neurological Surgery, San Diego 2001-oral poster.
- 50- Eljamel MS, Anatomical localisation of the functional target, mission impossible III. The British Stereotactic & Functional Neurosurgery Group, May 2001-oral.
- 51- Samandouras G, Eljamel MS. Three years experience with the technology, use and limitations of image guided neuronavigation. The British Stereotactic & Functional Neurosurgery Group, May 2001- oral.
- 52- Eljamel MS, Jung R, Acromegalic giant, a management challenge? 13th North American Skull Base Society Meeting, San Diego, Ca 2002 (poster).
 - Abstract in Skull Base Surgery 2002; 12 (suppl).
- 53- Nassan A, Eljamel MS. The use of temporalis muscle for facial reanimation surgery; antegrade vs retrograde transfer, a comparative study. 13th North American Skull Base Society Meeting, San Diego, Ca 2002 (oral).
 - Abstract in Skull Base Surgery 2002; 12 (suppl).
- 54- Eljamel MS. SMN neuronavigation accuracy in different skull base approaches. 13th North American Skull Base Society Meeting, San Diego, Ca 2002 (oral).
 - Abstract in Skull Base Surgery 2002; 12 (suppl).
- 55- Eljamel MS, McMahon K, Multifocal gliomas complicating gliomatosis cerebri. 13th North American Skull Base Society Meeting, San Diego, Ca 2002 (poster).
 - Abstract in Skull Base Surgery 2002; 12 (suppl).
- 56- Denial Oui, Eljamel MS, Gracile and Cuneate tractotomy after penetrating high cervical injury. The Congress of Neurological Surgeons, Philadelphia, USA 2002 (poster).

- 57- Kumar A, Eljamel MS, Roberts R. Vagus Nerve Stimulation for medically intractable seizures, Dundee experience. The Congress of Neurological Surgeons, Philadelphia, USA 2002 (poster).
- 58- Balan B, Eljamel MS, Main G, An audit of emergency CT scanning at Ninewells hospital. The British Radiology meeting, 2002, UK, Poster.
- 59- Kumar A, Eljamel MS, Roberts R. Vagus Nerve Stimulation for medically intractable seizures, Dundee experience. The SANS, Dunkeld, 2002 oral.
- 60- Eljamel MS. Computer Assisted Neurosurgery; the beginning of keyhole and the end of letterbox surgery. 14th Annual north American Skull Base Society meeting, Memphis, TS, 2003-oral.
 - Abstract in Skull Base Surgery 2003; 13 (suppl):13.
- 61- Eljamel MS. Photodynamic Therapy in Invasive Pituitary Adenomas, early experience. 14th Annual North American Skull Base Society meeting, Memphis, TS, 2003- oral.
 - Abstract in Skull Base Surgery 2003; 13 (suppl):13.
- 62- Haridas A, Kumar A, Sangra R, Eljamel S. Trigeminal Neuralgia, long-term results of surgical intervention. 14th Annual North American Skull Base Society meeting, Memphis, TS, 2003 – oral.
 - Abstract in Skull Base Surgery 2003; 13(suppl): 13.
- 63- Eljamel MS, Hofer H. From Letterbox to Keyhole Approach for Resecting Intracranial Lesions, Amer Society Stereot Funct Neurosurg, 2003, New York, May – Oral.
- 64- Kumar A, Felderhof C, Eljamel MS. Spinal Cord Stimulation (SCS) in the treatment of Refractory Unilateral Limb Pain Syndrome (RULPS, Amer Society Stereot Funct Neurosurg, 2003, New York, May – Oral
- 65- Eljamel MS. The PDD-PDT Story of the Brain, a new hope. The 5th International Symposium on Photodynamic therapy in Clinical Practice – 7-11 Oct 2003, Brixen, Italy (Invited Speaker).
- 66- Eljamel S, Haridas A, The efficacy of surgery in refractory trigeminal neuralgia, the outcome of 400 consecutive cases. 53rd Annual meeting of the Congress of Neurological Surgeons, Denver CO 2003 – oral.
- 67- Eljamel MS. PDDT-PDT in Brain Tumours, SANS meeting, Nov 2003, Dunkeld – oral.
- 68- Eljamel Sam, Samelis A, Quyn A, The retroseggmoid approach and postoperative headache; reappraisal using Image guided technology and bone dust for closure. 15th Annual North American Skull Base Society, New Orleans, USA, Feb 2004.(oral)
 - Abstract in Skull Base 2004; 14 (Suppl): 13.
- 69- Eljamel Sam, Rao R, Leese G, The development of Cushing disease after cured acromegaly, case report. 15th Annual North American Skull Base Society, New Orleans, USA, Feb 2004 (poster)
 - Abstract in Skull Base 2004; 14 (Suppl); 37.
- 70- Eljamel Sam, Robotic applications in epilepsy surgery. The American Society of Stereotactic and Functional Neurosurgery (ASSFN), Boston, MA, USA, June 1-4 2006 (Poster).
- 71- Eljamel Sam, Comparison of a frame based stereotactic sytem and a neurosurgical robot. The American Society of Stereotactic and Functional Neurosurgery (ASSFN), Boston, MA, USA, June 1-4 2006 (Oral).
- 72- Ridout N, O'Carrol R, Dritschel B, Eljamel M, Matthews K. Neurosurgery for chronic treatment refractory depression effects on emotion, cognition, and social inference. Seattle USA 2006 (poster).
- 73- Al Ashaal R, Ironside J, Eljamel MS. Posterior cranial fossa melanocytoma, case report and review of the literature. Meeting of the NASBS meeting, Phoenix, Arizona, USA, Feb 16-19, 2006 (poster).
- 74- Eljamel MS, Leese G, Moseley H. Photodiagnosis and photodynamic therapy in pituitary adenomas. Meeting of the NASBS meeting, Phoenix, Arizona, USA, Feb 16-19, 2006.
- 75- Liaquat L, Parry J, Mowle D, Ballantyne E, Munto A, Eljamel S. Mobile intraoperative radiotherapy in malignant brain tumours; early results. 13TH Congress of European Associations of Neurological Surgeons (EANS) 2-7 Sept 2007, Glasgow.
 - Abstract in Acta Neurochirur (Wien) 2007; I-CCXXVII, PF 15-4.

8 Medico-legal reporting:

I have written medico-legal reports for both lower and high courts since 1995 with special expertise in personal injuries (head and spine), spinal and cranial neurosurgical problems, cases involving medical negligence claims and industrial accidents arising from total body vibration, acoustic shock syndrome and post traumatic headache syndrome.

So far I had furnished 111 expert reports for the defenders, 195 expert reports for the plaintiff and ten joint reports.

I had appeared in court and given evidence in front of a judge or jury ten times and in front of a tribunal once.

I have provided expert medical advice in the form of a report to the Healthcare Commission in England ten times.

9- Continuous Professional Development Activities:

Regular local activities:

- 4- Weekly Audit / Journal meetings.
- 5- Monthly half day clinical effectiveness activities.
- 6- Weekly neuro-radiology meetings.
- 7- Weekly case conference meetings with neurology.
- 8- Weekly three academic meeting of teaching.
- 9- Quarterly Neuro-ophthalmology joint meetings.
- 10- Quarterly Neuro-endocrine meetings joint with endocrine physicians.
- 11- Quarterly Neuro-pathology meetings.
- 12- Monthly clinical effectiveness meetings.

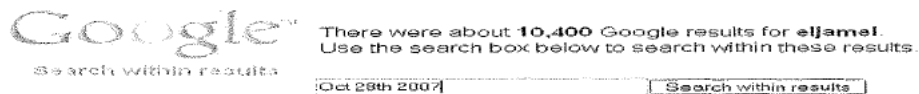
Attended the following scientific meetings/ courses:

- 1- Meeting of the Scottish Association of Neurological Sciences (SANS) Dunkeld, 1996.
- 2- The International Neuronavigation Workshop, Dundee, Oct., 1996.
- 3- Meeting of the Society of British Neurological Surgeons (SBNS) and The American Association of Neurosurgical Surgery (AANS) meeting in Cambridge 1997.
- 4- Meeting of SANS, Dunkeld 1997.
- 5- Meeting of the SBNS/Polish society meeting, Sheffield, April 1998.
- 6- 9th annual meeting of North American Skull Base Surgery in Waikoloa Village, Hawaii, 1998.
- 7- Meeting of SANS, Dunkeld 1998.
- 8- Meeting of the SBNS, Brighton, September 1998.
- 9- American Society of Stereotactic & Functional Neurosurgery (ASSFN), Snowbird, Utah 1999.
- 10- 10th annual meeting of NASBS, March 2000, USA.
- 11- Meeting of SANS, Dunkeld 2000.
- 12- Meeting of the NASBS, Orlando USA, 2001.
- 13- Meeting of the SANS, Dunkeld 2001.
- 14- Meeting of the Congress of Neurological Surgery (CNS), San Diego 2001.
- 15- Meeting of the British Stereotactic & Functional Neurosurgery Group (BSFNG), Liverpool, May 2001.
- 16- 13th North American Skull Base Society Meeting, San Diego, CA 2002.
- 17- Meeting of the Congress of Neurological Surgeons, Philadelphia, USA 2002.
- 18- Meeting of SANS, Dunkeld, 2002 oral.
- 19- 14th Annual north American Skull Base Society meeting, Memphis, TS, 2002.
- 20- Meeting of the American Society Stereot Funct Neurosurg, 2003, New York, May.
- 21- The 5th International Symposium on Photodynamic therapy in Clinical Practice – 7-11 Oct 2003, Brixen, Italy.
- 22- 53rd Annual meeting of the Congress of Neurological Surgeons, Denver CO 2003.
- 23- 54th Annual meeting of the Congress of Neurological Surgeons, San Francisco, CA, Oct 16-21, 2003.
- 24- Meeting of SANS meeting, Nov 2003, Dunkeld.
- 25- 15th Annual North American Skull Base Society, New Orleans, USA, Feb 2004.
- 26- The Scots course of managing poor performance May 31st 2004.
- 27- Workshop on oral and higher order thinking of postgraduate examination development, Feb 28th 2005.
- 28- Meeting of the American Society of Stereotactic and Functional Neurosurgery (ASSFN), Boston, MA, USA, June 1-4 2006.
- 29- Workshop hands on, endoscopy course of the skull base, Phoenix Arizona, Feb 2006.
- 30- Reviewed the abstracts and moderated the neurosurgery session of the 10th World Congress of International Photodynamic Therapy, Munchen, Germany, June 2005.
- 31- Meeting of the NASBS meeting, Phoenix, Arizona, USA, Feb 16-19, 2006.
- 32- Effective Feedback and Coaching course 2005 and 2006.
- 33- Reviewers' for clinical governance and risk management induction course, Glasgow Feb 8th 2006.

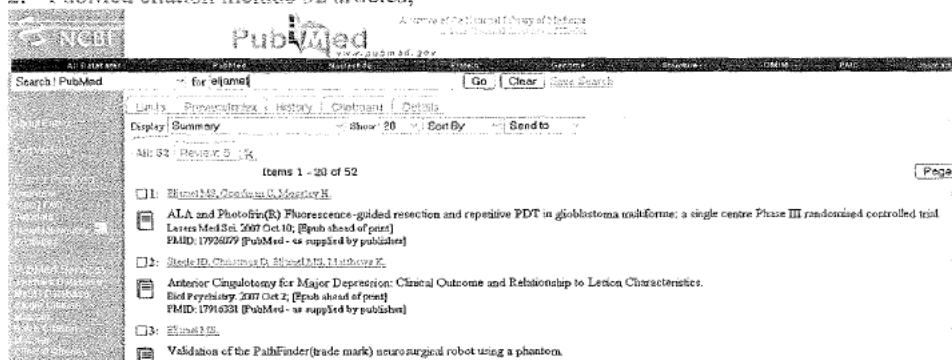
- 34- Neurovascular forum Wormit 2006.
- 35- The 13th Congress of EANS Glasgow 2-7th Sep 2007.
 - a. Member of the local organising and scientific committees.
 - b. Chair of two sessions; one on the 4th and one on the 6th Sep 2007.
- 36- The CNS meeting in San Diego's Convention Centre, USA, 16th to 20th Sep 2007.

Awards & Citations:

1. Google citation for Eljamel



2. PubMed citation include 52 articles;



Awards and recognition:

- The Integra Foundation Award of the Congress of Neurological Surgeons meeting Orlando, USA, Sep 2008 for best paper submission to Tumor section.
- B- Merit award for clinical excellence, Scottish Advisory Committee on Distinction Awards 2006.
- 3 Discretionary Points for clinical excellence, Tayside University Teaching Hospitals, 2004.
- 2 Discretionary Points for clinical excellence, Tayside University Teaching Hospitals, 2002.
- 2 Discretionary Points for clinical excellence, Tayside University Teaching Hospitals, 2000.
- Distinction award on my MD Thesis 1992, University of Liverpool.
- Honours degree award in final MBBCh, first in class 1982.

Candidate's Signature.....

CAT C

Date.....30/4/82.....

Dean of School's

Signature.....Date.....