

# Andrew Kay

## Consultant Neurosurgeon

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## Qualifications

BSc MBBS FRCS (Neuro.Surg.) MD.

## EXPERIENCE

**Thirty-plus years of neurosurgical experience in some of the UK's largest and busiest neurosurgical centres, including Addenbrookes Hospital, Cambridge and The Institute of Neurological Science, Glasgow**

### Special Interests and Expertise

*Skull Base Surgery*

*Acoustic Neuroma*

*Posterior Fossa Tumour*

*Cerebellopontine Angle Tumours*

*Meningioma*

*Intraventricular Tumours*



*Craniopharyngioma*

*Pineal Region Tumours*

*Teenage Young Adult Tumours*

*Neuroendoscopy*

*Neuro Oncology*

*Neurotrauma*

*Intracerebral and Sub Arachnoid Haemorrhage*

*Hydrocephalus*

**Medical Expert Witness**

- Clinical Negligence
- Personal Injury
- 20 years experience

**AD Kay LTD**

Company Number 11926192

**University Hospital Birmingham NHS Foundation Trust**

*Neurosurgery Trainer, Coach and Mentor*

April 2004 - July 2023

- Assigned Educational Supervisor
- Clinical Supervisor
- Assigned Mentor

**University Hospital Birmingham NHS Foundation Trust**

*Consultant Neurosurgeon*

April 2004-July 2023 ( Current)

- Skull Base Surgery
- Neuro Oncology- Highly Specialised in Teenage and Young Adult Tumours
- General Neurosurgery
- Emergency Neurosurgery
  
- Paediatric Neurosurgery 15 years ( Clinical Service Leed- Birmingham Children's Hospital)
- Spinal Neurosurgery 15 years

## EDUCATION

### St Thomas` Hospital Medical School 1991

Bachelor of Medicine and Surgery (MBBS) (1991)

Fellowship of the Royal College of Surgeons (England): FRCS (1995)

Intercollegiate Specialist Fellowship in Neurosurgery-FRCS (Neuro.Surg.) (2002)

Doctor of Medicine-MD (2003)

General Medical Council: Specialist Register- registration number: 3276327

Premium Medical Protection number: 2428023

CRB Disclosure number: 001076278509

## AWARDS

Corporate Livewire Innovation & Excellence Award -Winner 2023

Lawyer Monthly Expert Witness Award Winner 2022 and 2023

## Publications

### Published Articles

1. **Kay AD**, Fisher AJ, O'Kane C, Richards HK, Pickard JD. A clinical audit of the Hakim programmable valve in patients with complex hydrocephalus. **Br J Neurosurg.** 2000.Dec.;14.(6.)535.-42. 14:535-542.
2. **Kay AD**, McIntyre MD, Macrae WA, Varma TR. Spinal cord stimulation-a long-term evaluation in patients with chronic pain. **Br J Neurosurg.** 2001.Aug.;15.(4.):335.-41. 15:335-341.
3. **Kay AD**, Thornhill S, Teasdale GM. The head injured adult –who cares? **Br J Neurosurg.** 2001.Dec.;15.(6.):508.-10. 15:508-510.
4. **Kay AD**, Teasdale G. Head injury in the United Kingdom. **World Journal of Surgery.** 2001.Sep.;25.(9.):1210.-20. 25:1210-1220.
5. Reeder BJ, Sharpe MA, **Kay AD**, Kerr M, Kevin Moore, Wilson MT. Toxicity of myoglobin and Haemoglobin oxidative stress in patients with rhabdomyolysis and subarachnoid haemorrhage. **Biochemical Society Transactions.** 2002; 30(4):745-8.
6. **Kay AD**, Petzold A, Kerr M, Kier G, Thompson E, Nicoll JAR. Cerebrospinal fluid apolipoproteinE concentration decreases after traumatic brain injury. **J.Neurotrauma.**2003 Mar;20(3):243-50.

7. **Kay AD**, Petzold A, Kerr M, Kier G, Thompson E, Nicoll JAR. Decreased cerebrospinal fluid apolipoproteinE after subarachnoid haemorrhage: correlation with injury severity and clinical outcome. **Stroke**. 2003 Mar;34(3):637-42.
8. **Kay AD**, Day SP, Kerr M, Nicoll JAR, Packard CJ, Caslake MJ. Remodelling of cerebrospinal fluid lipoprotein particles after human traumatic brain injury. **J.Neurotrauma**. 2003 20(8):717-723.
9. **Kay AD**, Day SP, Kerr M, Nicoll JAR, Packard CJ, Caslake MJ. Remodelling of cerebrospinal fluid lipoprotein particles after subarachnoid haemorrhage. **Atherosclerosis**. 2003. Sep;170(1):141-6.
10. **Kay AD**, Petzold A, Kerr M, Kier G, Thompson E, Nicoll JAR. Temporal alterations in cerebrospinal fluid amyloid b-protein and apolipoprotein E after Traumatic brain injury. **J.Neurotrauma**. 2003 20(10):943-952.
11. **Kay AD**, Petzold A, Kerr M, Kier G, Thompson E, Nicoll JAR. Temporal alterations in cerebrospinal fluid amyloid b-protein and apolipoprotein E after subarachnoid haemorrhage. 2003 Dec;34(12):e240-3. Epub 2003 Nov 6.
12. Rejdak K, Petzold A, Sharpe MA, **Kay AD**, Kerr M, Kier G, Thompson EJ, Giovannoni G. Cerebrospinal fluid nitrite/nitrate correlated with oxyhemoglobin and outcome in patients with subarachnoid haemorrhage. **J Neurol Sci**. 2004 Apr 15;219(1-2):71-6.
13. **Kay AD**, Petzold A, Kerr M, Kier G, Thompson E, Nicoll JAR. Cerebrospinal fluid apolipoprotein E after human acute brain injury-evidence for a role in cholesterol recycling and amyloid-b interactions. **British Journal of Neurosurgery**.
14. Petzold A, Keir G, **Kay AD**, Kitchen N, Smith M, Thompson EJ. Early identification of secondary brain damage in subarachnoid haemorrhage: a role for glial fibrillary acidic protein. **J Neurotrauma**. 2006 Jul;23(7):1179-84.
15. Petzold A, Keir G, **Kay AD**, Kerr M, Thompson EJ. Axonal damage and outcome in subarachnoid haemorrhage. **J Neurol Neurosurg Psychiatry**. 2006 Jun;77(9):753-9.
16. Oluigbo CO, Gan YC, Sgouros S, Chapman S, **Kay AD**, Solanki G, Walsh AR, Hockley AD. Pattern Management and Outcome of Cervical Spine Injury associated with head injury in Paediatric Patients. **Childs Nerv Syst**. 2008 Jan;24(1):87-92.
17. Durnford AJ, Mulik R, **Kay AD**, Ahmed SK. Spontaneous regression of a terminal myelocystocele and associated syringomyelia: a case report. **Childs Nervous System**. 2010 Mar;26(3):403-6.
18. Beech TJ, McDermott AL, **Kay AD**, Ahmed SK. Endoscopic endonasal resection of the odontoid peg – case report and literature review. **Childs Nervous System**. 2012 Oct; 28(10):1795-9.
19. Qurushi HU, Rodrigues D, Roy D, Parulekar M, **Kay AD**. Blinking – an unusual presentation of obstructive hydrocephalus relieved by endoscopic third ventriculostomy. **Childs Nervous System**. 2012 Mar;28(3):493-5.
20. Fayeye O, Ushewokunze S, Stickley J, Reynolds F, Solanki G, Rodrigues D, Walsh AR, **Kay AD**. Does direct admission from an emergency department with on-site neurosurgical services facilitate time critical surgical intervention following a traumatic brain injury in children? **Br J Neurosurg**. 2012 Dec 4.
21. Fayeye O, Pettorini BL, Smith M, Williams H, Rodrigues D, **Kay AD**. Meningococcal Encephalitis associated with cerebellar tonsillar herniation and acute cervical injury. **Br J Neurosurg**. 2013 Feb 8.

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22. Kanthimathinathan H K, Brown F, Ramirez R, McKaig S, Debelle G, Martin J, Chapple I L, **Kay A**, Moss C. Multiple Cerebral Abscesses in Papillon-Lefevre Syndrome. **Childs Nerv Syst** 2013 Aug 29 (8) 1227-9
  23. Sawlani V, Patel MD, Davies N, Flintham R, Wesolowski R, Ughratdar I, Pohl U, Nagaraju S, Petrik V, **Kay A**, Jacob S, Sanghera P, Wykes V, Watts C, Poptani H. Multiparametric MRI: practical approach and pictorial review of a useful tool in the evaluation of brain tumours and tumour-like lesions. **Insights Imaging**. 2020 Jul 17;11(1):84. doi: 10.1186/s13244-020-00888-1

### **MD Thesis-Degree of Doctor of Medicine (University of London) 2003**

Thesis presenting novel findings in Cerebrospinal Fluid apolipoprotein E and amyloid- $\beta$  after acute human brain injury. Wellcome Trust Clinical Research Training Fellowship. Awarded following research grant proposal and competitive interview

**Book Chapter:** In **BRAIN INJURY**. 2<sup>nd</sup> edition 2001. Edited by Robert Clark and Patrick Kochanek. Springer 2001 ISBN: 978-0792375326; Chapter 15:pp 317-347.  
ROLE OF GENETIC BACKGROUND: INFLUENCE OF APOLIPOPROTEIN E GENOTYPE IN ALZHEIMER'S DISEASE AND AFTER HEAD INJURY.

**Book Chapter:** In **FARQUHARSON'S TEXTBOOK OF OPERATIVE GENERAL SURGERY**. Tenth Edition Published 2014-11-14. Taylor & Francis LTD ISBN 978144175929 : **HEAD INJURY**.

### **Publication/Journal Review**

Previously Expert referee for:

- Journal of Neurosurgery
- Journal of Neurotrauma
- Journal of Neurology, Neurosurgery and Psychiatry
- Coronary Artery Disease
- European Journal of Chemistry

### **Continued Medical Education**

Society of British Neurological Surgeons Conference, London (1993)  
Society of British Neurological Surgeons Conference, Dublin (1995)  
Research Methodology for Surgical Specialist Registrars, RCS Edinburgh (1996)  
Home Office Small Animal Research License, Veterinary School, Glasgow (1997)  
Neurosurgical Anatomy Course for Trainees, RCS London (1997)  
Neuro-anatomy of the Cervical Spine, RCS London (1998)  
Advanced Trauma Life Support (ATLS) Provider course (1998)  
Society of British Neurological Surgeons Conference, Sheffield (1998)  
European Association of Neurosurgical Societies (EANS) course, Portugal (1998)  
European Association of Neurosurgical Societies (EANS) course, Spain (1999)  
European Association of Neurosurgical Societies (EANS) course, France (2000)



Society of British Neurological Surgeons Conference, Southampton (2000)  
European Association of Neurosurgical Societies (EANS) course, Netherlands (2001)  
Neurosurgical Specialist Fellowship Course, London (2002)  
European Society for Paediatric Neurosurgery-Postgraduate Course, Scotland (2004)  
Medico-Legal Report Writing, Birmingham (2004)  
Advanced Medico-Legal Report Writing, Birmingham (2004)  
Giving Expert Evidence in Court, London (2004)  
European Society for Paediatric Neurosurgery-Postgraduate Course, Poland (2005)  
Anglo-French Paediatric Neurosurgery Meeting, France (2005)  
Cervical Spine Fixation course, Oxford (2005)  
Anglo-French Paediatric Neurosurgery Meeting, France (2007)  
European Society for Paediatric Neurosurgery-Postgraduate Course, Hungary (2006)  
European Society for Paediatric Neurosurgery-Postgraduate Course, Turkey (2007)  
International Society of Paediatric Neurosurgery Conference, UK (2007)  
British Syringomyelia Group Meeting, Rugby (2007)  
Complex Spine Instrumentation course, Barcelona (2008)  
Anglo-French Paediatric Neurosurgery Meeting, UK (2008)  
Society of British Neurological Surgeons Conference, Birmingham (2009)  
Anglo-French Paediatric Neurosurgery Meeting, UK (2010)  
British Paediatric Neurosurgery Group Meeting, Manchester (2010)  
Society of British Neurological Surgeons Conference, London (2010)  
British Paediatric Neurosurgery Group Meeting, Cambridge (2011)  
European Society of Paediatric Neurosurgery Conference, Amsterdam (2012)  
15<sup>th</sup> International Symposium on Paediatric Neuro-Oncology, Toronto (2012)  
6<sup>th</sup> International Congress of World Federation of Skull Base Societies, UK (2012)  
British Syringomyelia Group Meeting, Sheffield (2012)  
British Paediatric Neurosurgery Group Meeting, Birmingham (2012)  
British Skull Base Society Meeting, Leeds (2012)  
British Skull Base Society Meeting, Nottingham (2013)  
British Paediatric Neurosurgery Group Meeting, Sheffield (2013)  
World Congress Skull Base Surgery, Brighton (2013)  
International Paediatric Neurosurgery Society Meeting, Mainz (2013)  
British Skull Base Society Meeting, London (2014)  
International Neuro Oncology Meeting, Singapore (2014)  
International Epilepsy Surgery Meeting, Gothenberg (2014)  
British Skull Base Society Meeting, Dublin (2015)  
Consensus Meeting on Intraoperative Spinal Monitoring Athens (2015)  
British Syringomyelia Group Meeting, Birmingham (2015)  
British Skull Base Society Meeting, Birmingham (2016)  
British Syringomyelia Group Meeting, Birmingham (2016)  
Cerebrospinal Fluid Disorders Meeting, Birmingham (2016)  
British Skull Base Society Meeting, Cardiff (2017)  
British Neurosurgical Group Meeting, Birmingham (2017)  
British Skull Base Society Meeting, Liverpool (2018)  
British Skull Base Society Meeting, Glasgow (2019)  
European Skull Base Society Meeting, Lake Garda, Italy (2022)



## **Membership**

Society of British Neurological Surgeons

British Skull Base Society

British Neuro Oncology Society

Association of Personal Injury Lawyers- Tier I Expert

National Expert Witness Agency

British Medical Association:7154164

General Medical Council: Specialist Register: 3276327

Premium Medical protection: 2428023

CRB Disclosure Number: 001076278509

