

CURRICULUM VITAE

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I am Dr Waney Squier, Consultant Neuropathologist to the Oxford Radcliffe Hospitals and Honorary Clinical lecturer in the University of Oxford. I have been a consultant neuropathologist since 1984, having trained at the Institute of Psychiatry and Great Ormond Street Hospital for Sick Children.

I am a member of the British Neuropathological Society and the British Paediatric Neurology Association. I am a Fellow of the Royal College of Physicians and a Fellow of the Royal College of Pathologists.

During my 24 years in Oxford I have specialised in the pathology of the developing brain in the fetus and neonate. My other areas of interest are developmental causes of epilepsy and muscle pathology. I have been involved in research into the nature and timing of brain damage due to intrauterine and perinatal insults, the effects of asphyxia on the immature brain, correlation of imaging and anatomic pathology in the pre-term human brain and the neuropathology of cerebral palsy in children. I have published widely on these subjects in peer reviewed journals and have edited a book on the timing and causation of developmental brain damage. I have an interest in the neuropathology of sudden unexpected death in infancy, including babies thought to have been intentionally injured. I have prepared reports in many cases both for the prosecution and the defence and have appeared in Court as an expert witness on many occasions.

MEDICAL SCHOOL:

Leeds University 1966 - 1972

DEGREES AND QUALIFICATIONS:

1969 BSc (Honours) Anatomy Class II i

1972 MB ChB (Honours) with distinctions in Anatomy, Physiology, Pathology and Medicine

1974 MRCP (UK) (Paediatrics)

1981 MRCPPath (Histopathology)

1992 FRCPath London

2003 FRCP London

AWARDS :

1968 Pearce Prize in Neurophysiology

1968 University Senior Scholarship

1972 West Riding Panel Practitioners Prize

1972 University Gold Medal (William Hey Medal)

PRESENT APPOINTMENT :

Consultant Neuropathologist

Radcliffe Infirmary, Oxford since May 1984

Honorary Clinical Lecturer, University of Oxford.

Consultant in charge of Department from 1989 - 1990 and 1999 - 2004.

In my current post I undertake all Paediatric Neuropathology for the Oxford region with many referrals from other regions both in the UK and abroad. I examine some 80-100 baby brains per annum including fetal and neonatal deaths, paediatric deaths from natural causes and unexpected deaths in infancy. About 20% of these cases are examined either at the request of the police or are second examinations for the defence.

PREVIOUS APPOINTMENTS:

February 1977-February 1978: Senior Registrar in Neuropathology Institute of Psychiatry London

March 1978-April 1980: Senior Registrar in Paediatric Pathology Great Ormond Street Hospital and Clinical Lecturer in Histopathology Institute of Child Health London

May 1980-June 1982: Research Lecturer in Histopathology Institute of Child Health London

SOCIETIES:

Member British Neuropathological Society

Member Societe Francaise de Neuropathologie

Member British Paediatric Neurology Association

ACADEMIC:

I participate in teaching and research in the University of Oxford.

I have given invited lectures as detailed below.

CURRENT RESEARCH

I am currently involved in research studying age-related structure and physiology of the dura. In particular I am looking at fluid transport through the dura at different ages and how this may affect the vulnerability to dural bleeding in the infant.

I am also looking at water handling by the infant brain and pathways of fluid resorption after hypoxic injury. This is relevant to brain swelling in the infant and development of subcortical oedema which may be mistaken for traumatic damage.

I review scientific papers for several major journals including Forensic Science International, Paediatric and Developmental Pathology, Acta paediatrica and Acta Neuropathologica

MEDICO-LEGAL WORK:

I have prepared reports and/or given evidence in court for over 160 cases. These have been in criminal, family and civil cases. I prepare reports for both prosecution and defence, approximately 60% for the defence.

I have been involved in high profile cases including R-v-Harris in the Court of Appeal 2005 and R-v-Holdsworth 2008 (both for the appellant) and R-v-Patel 2003 and R-v-Henderson 2007 (both for the prosecution).

I have been an invited lecturer to the Family Law Bar Association (2008), to conferences on Child Abuse, to individual Chambers (Furnivals, London; Bache and Co, Salisbury) and to the Women Barrister's Society London.

I have given evidence in Criminal Court in Hong Kong and the Swedish High Court and have been asked to prepare reports for cases in USA, Australia, Holland, Sweden and Hong Kong.

PUBLICATIONS, PAPERS AND COMMUNICATIONS:

1. Herson RN, Squier M. Retinal perivasculitis with neurological involvement. A case report with pathological findings. *J.Neurol.Sci.* 1978; 36: 111-117.
2. Parfrey PS, Squier M. Thalassaemia minor, iron overload, and hepatoma. *Br.Med.J.* 1978; 1: 416.
3. Topley JM, Benson J, Squier MV, Chessells JM. Hepatotoxicity in the treatment of acute lymphoblastic leukaemia. *Med.Pediatr.Oncol.* 1979; 7: 393-399.
4. Squier M. Immunochemical Demonstration of Collagen Types in Human Tissues. *Proc Roy Microscop Society* 1980; 15: 113.
5. Squier M. Immunofluorescent Demonstration of Specific Collagen Types in Cultured Muscle Cells. *Abstracts VI Int.Histo.& Cytochem.Congress August 1980*; 357.
6. Squier M. Immunochemical Demonstration of Collagen Types in Human Tissues in vivo and in vitro. *Neuropathol.Appl.Neurobiol.* 1981; 7: 83.
7. Harvey W, Squier MV, Duance VC, Pritchard J. A biochemical and immunohistological study of collagen synthesis in Ewing's tumour. *Br.J.Cancer* 1982; 46: 848-855.
8. Squier M. Immunofluorescent Localisation of Collagens. *Neuropathol.Appl.Neurobiol.* 1983; 9: 334.
9. Harvey W, Light N, Duance V, Squier M. The Collagen of Oral Submucous Fibrosis. *Brit Soc for Dental Research* 1984.

10. Hallam NF, Eglin RP, Holland P, Bell EJ, Squier MV. Fatal Coxsackie B meningoencephalitis diagnosed by serology and in-situ nucleic acid hybridisation. *Lancet* 1986; 2: 1213-1214.
11. Hayes DJ, Taylor DJ, Bore PJ *et al.* An unusual metabolic myopathy: a malate-aspartate shuttle defect. *J.Neurol.Sci.* 1987; 82: 27-39.
12. Matthews WB, Squier MV. Sensory perineuritis. *J.Neurol.Neurosurg.Psychiatry* 1988; 51: 473-475.
13. Squier, MV. Three Siblings with an Unusual Form of Lissencephaly. *Clin.Neuropathol.* 7, 212. 1988.
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14. Donaghy M, Gray JA, Squier W *et al.* Recurrent Guillain-Barre syndrome after multiple exposures to cytomegalovirus. *Am.J.Med.* 1989; 87: 339-341.
15. Esiri MM, Reading MC, Squier MV, Hughes JT. Immunocytochemical characterization of the macrophage and lymphocyte infiltrate in the brain in six cases of human encephalitis of varied aetiology. *Neuropathol.Appl.Neurobiol.* 1989; 15: 289-305.
16. Larroche J, Razavi-Encha F, Squier M. The Lissencephalies: a large spectrum of morphological abnormalities. *Proc.XI International Congress of Neuropathology, Kyoto Sep 2-8 1990.*
17. Squier M, Keeling J. Prenatal Brain Injury. *Rev.Neurologique* 1990.
18. Squier W, Hope PL, Lindenbaum RH. Neocerebellar hypoplasia in a neonate following intra-uterine exposure to anticonvulsants. *Dev.Med.Child Neurol.* 1990; 32: 737-742.
19. Squier M, Keeling JW. The incidence of prenatal brain injury. *Neuropathol.Appl.Neurobiol.* 1991; 17: 29-38.
20. Squier M, Chalk C, Hilton-Jones D, Mills KR, Newsom-Davis J. Type 2 fiber predominance in Lambert-Eaton myasthenic syndrome. *Muscle Nerve* 1991; 14: 625-632.
21. Hilton-Jones D, Squier MV. Risk of cancer in dermatomyositis or polymyositis [letter]. *N.Engl.J.Med.* 1992; 327: 207.
22. Land JM, Mistry S, Squier W, Hope P, Orford M, Saggerson ED. Neonatal carnitine palmitoyltransferase deficiency: a case with a muscular presentation. *Prog.Clin.Biol.Res.* 1992; 375: 309-315.
23. Squier MV, Thompson J, Rajgopalan B. Case report: neuropathology of methyl bromide intoxication [see comments]. *Neuropathol.Appl.Neurobiol.* 1992; 18: 579-584.
24. Young ID, McKeever PA, Squier MV, Grant J. Lethal olivopontoneocerebellar hypoplasia with dysmorphic features in sibs. *J.Med.Genet.* 1992; 29: 733-735.
25. Hilton-Jones D, Squier MV. Dystrophin-associated protein complex: clinical implications. *Lancet* 1993; 341: 528-529.

26. Hilton-Jones D, Squier MV. Dystrophin-associated protein complex: clinical implications [comment]. *Lancet* 1993; 341: 528-529.
27. Matthews P, Marchington D, Squier M, Land J, et al. Molecular Genetic Characterization of an X-linked form of Leigh's Syndrome. *Ann.Neurol.* 1993; 33: 652-655.
28. Panegyres PK, Squier M, Mills KR, Newsom-Davis J. Acute myopathy associated with large parenteral dose of corticosteroid in myasthenia gravis. *J.Neurol.Neurosurg.Psychiatry* 1993; 56: 702-704.
29. Squier MV. Fetal type II lissencephaly: a case report. *Childs Nerv.Syst.* 1993; 9: 400-402.
30. Squier MV. Development of the cortical dysplasia of type II lissencephaly. *Neuropathol.Appl.Neurobiol.* 1993; 19: 209-213.
31. Fetal Brainstem Neoplasia associated with Ipsilateral Cerebellar Dysplasia. *Brain Pathol.* 4, 393. 1994.
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32. Ferrer I, Tortosa A, Macaya A *et al.* Evidence of nuclear DNA fragmentation following hypoxia-ischemia in the infant rat brain, and transient forebrain ischemia in the adult gerbil. *Brain Pathol.* 1994; 4: 115-122.
33. Gaffney G, Flavell V, Johnson A, Squier M, Sellers S. Cerebral palsy and neonatal encephalopathy. *Arch.Dis.Child Fetal Neonatal Ed* 1994; 70: F195-F200.
34. Gaffney G, Squier MV, Johnson A. Fetal intracranial haemorrhage: clinical significance of in vitro ultrasonographic diagnosis. *Br.J.Obstet.Gynaecol.* 1994; 101: 557.
35. Brown JE, King FG Jr, Mitchell WA, Squier WC, Harris DB, Kinsey JS. On-road facility to measure and characterize emissions from heavy-duty diesel vehicles. *J Air Waste Manag Assoc.* 2002 Apr;52(4):388-95
36. Gaffney G, Sellers S, Flavell V, Squier M, Johnson A. Case-control study of intrapartum care, cerebral palsy, and perinatal death. *BMJ* 1994; 308: 743-750.
37. Gaffney G, Squier MV, Johnson A, Flavell V, Sellers S. Clinical associations of prenatal ischaemic white matter injury. *Arch.Dis.Child Fetal Neonatal Ed* 1994; 70: F101-F106.
38. Matthews PM, Nagy Z, Brown GK, Land J, Squier MV. Isolated capillary proliferation in Leigh's syndrome. *Clin.Neuropathol.* 1994; 13: 139-141.
39. Mehmet H, Yue X, Squier M, Edwards A. The relationship between impaired cerebral energy metabolism and programmed cell death in the cingulate gyrus of the newborn piglet following transient hypoxia-ischaemia. Poster at a Symposium "Death from inside

- out: The role of Apoptosis in development, tissue homeostasis and malignancy." The Royal Society, London, February 1994.
40. Mehmet H, Yue X, Squier M, Edwards A. The Relationship between Cerebral Energy Metabolism and Programmed Cell Death in Newborn Piglets following Transient Hypoxia-Ischaemia. *Brain Pathology* 1994; 4: 401.
 41. Mehmet H, Yue X, Squier MV, Edwards AD. The relationship between impaired cerebral energy metabolism and apoptosis in the cingulate gyrus of newborn piglets following transient hypoxia-ischaemia. UCL/RPMS Perinatal Brain Research Group. *Biochem.Soc.Trans.* 1994; 22: 421S.
 42. Mehmet H, Yue X, Squier MV *et al.* Increased apoptosis in the cingulate sulcus of newborn piglets following transient hypoxia-ischaemia is related to the degree of high energy phosphate depletion during the insult. *Neurosci.Lett.* 1994; 181: 121-125.
 43. Renowden SA, Squier M. Unusual magnetic resonance and neuropathological findings in hemimegalencephaly: report of a case following hemispherectomy. *Dev.Med.Child Neurol.* 1994; 36: 357-361.
 44. Squier MV, Lehr RP. Post-traumatic syringomyelia [see comments]. *J.Neurol.Neurosurg.Psychiatry* 1994; 57: 1095-1098.
 45. Edwards AD, Yue X, Squier MV *et al.* Specific inhibition of apoptosis after cerebral hypoxia-ischaemia by moderate post-insult hypothermia. *Biochem.Biophys.Res.Commun.* 1995; 217: 1193-1199.
 46. Gaffney G, Flavell V, Johnson A, Squier MV, Sellers S. Model to identify potentially preventable cerebral palsy of intrapartum origin. *Arch.Dis.Child Fetal Neonatal Ed* 1995; 73: F106-F108.
 47. Gee AS, Warren BF, Squier MV, Durdey P. A new form of hereditary hypertrophy of the internal sphincter: an unusual cause of chronic constipation. Submitted 1995.
 48. Land JM, Mistry S, Squier M *et al.* Neonatal carnitine palmitoyltransferase-2 deficiency: a case presenting with myopathy. *Neuromuscul.Disord.* 1995; 5: 129-137.
 49. Matthews PM, Benjamin D, Van B, I *et al.* Muscle X-inactivation patterns and dystrophin expression in Duchenne muscular dystrophy carriers. *Neuromuscul.Disord.* 1995; 5: 209-220.
 50. Matthews PM, Squier MV, Chalk C, Donaghy M. Mitochondrial abnormalities are not invariably present in neurologic syndromes associated with multiple symmetric lipomatosis. *Neurology* 1995; 45: 197-198.
 51. Oxbury J, Squier M, Adams C, Zaiwalla Z, et al. Surgical Treatment of Childhood Temporal Lobe Epilepsy due to Dysembryoplastic

- Neuroepithelial Tumour. Oral Presentation. 21st International Epilepsy Congress Sydney, Australia. September 1995.
52. Oxbury S, Squier M, Renowden S, Carpenter K, Oxbury J. Severe amnesia and hippocampal neurone loss: a case of unusual late complication after temporal lobectomy with autopsy findings. British Neuropsychology Society 1995.
 53. Sherriff FE, Joachim CL, Squier MV, Esiri MM. Ubiquitinated inclusions in inclusion-body myositis patients are immunoreactive for cathepsin D but not beta-amyloid. *Neurosci.Lett.* 1995; 194: 37-40.
 54. Squier MV, Jalloh S, Hilton-Jones D, Series H. Death after ecstasy ingestion: neuropathological findings [letter]. *J.Neurol.Neurosurg.Psychiatry* 1995; 58: 756.
 55. Bowen J, Gregory R, Squier M, Donaghy M. The post-irradiation lower motor neuron syndrome neuronopathy or radiculopathy? *Brain* 1996; 119 (Pt 5): 1429-1439.
 56. Bowen J, Pendlebury S, Squier M, Wright G. Mitochondrial Encephalomyopathy, lactic acidosis and stroke-like episodes masquerading as cerebral vasculitis. Submitted 1996.
 57. Brown GK, Squier MV. Neuropathology and pathogenesis of mitochondrial diseases. *J.Inherit.Metab Dis.* 1996; 19: 553-572.
 58. Murphy DJ, Squier MV, Hope PL, Sellers S, Johnson A. Clinical associations and time of onset of cerebral white matter damage in very preterm babies. *Arch.Dis.Child Fetal Neonatal Ed* 1996; 75: F27-F32.
 59. Squier M. Symposium: Recent advances in Fetal and Neonatal Neuropathology. Introduction. *Neuropathol.Appl.Neurobiol.* 1996; 22: 482-503.
 60. Squier M. The timing of asphyxial brain damage. Invited review. *Clinical Risk* 1996; 2: 37-42.
 61. Yue X, Mehmet H, Penrice J *et al.* Modes of cell death in the newborn piglet brain following transient cerebral hypoxia-ischaemia. *Neuropath and Applied Neuropathology* 1996; 22: 482-503.
 62. Blackshear PJ, Silver J, Nairn AC *et al.* Widespread neuronal ectopia associated with secondary defects in cerebrocortical chondroitin sulfate proteoglycans and basal lamina in MARCKS-deficient mice. *Exp.Neurol.* 1997; 145: 46-61.
 63. Edwards AD, Yue X, Cox P *et al.* Apoptosis in the brains of infants suffering intrauterine cerebral injury. *Pediatr.Res.* 1997; 42: 684-689.
 64. Hanna MG, Vaughan JR, Silburn PA *et al.* Two unusual clinical presentations of the mitochondrial DNA A3243G point mutation in

- adult neurological practice. *J.Neurol.Neurosurg.Psychiatry* 1997; 62: 544-546.
65. Metzinger L, Blake DJ, Squier MV *et al.* Dystrobrevin deficiency at the sarcolemma of patients with muscular dystrophy. *Hum.Mol.Genet.* 1997; 6: 1185-1191.
 66. Nicholson SC, Squier M, Ferguson DJ, Nagy Z, Westaby S, Evans RD. Effect of desferrioxamine cardioplegia on ischemia-reperfusion injury in isolated rat heart. *Ann.Thorac.Surg.* 1997; 63: 1003-1011.
 67. Oxbury S, Oxbury J, Renowden S, Squier M, Carpenter K. Severe Amnesia: An unusual late complication after temporal lobectomy. *Neuropsychologia* 1997; 35: 975-988
 68. Squier M, Hannan A, Servotte S, Katsnelson A, Blakemore C, Molnar Z. Characterisation of Subcortical Neuronal Heterotopia in Children with Epilepsy. Poster Presentation Am Soc Neuroscience 1997.
 69. Squier M. Pathological approach to the diagnosis of hydrocephalus. *J.Clin.Pathol.* 1997; 50: 181-186.
 70. Yue X, Mehmet H, Penrice J *et al.* Apoptosis and necrosis in the newborn piglet brain following transient cerebral hypoxia-ischaemia. *Neuropathol.Appl.Neurobiol.* 1997; 23: 16-25.
 71. Lodi R, Taylor DJ, Tabrizi SJ *et al.* Normal in vivo skeletal muscle oxidative metabolism in sporadic inclusion body myositis assessed by ³¹P-magnetic resonance spectroscopy. *Brain* 1998; 121 (Pt 11): 2119-2126.
 72. Mehmet H, Yue X, Penrice J *et al.* Relation of impaired energy metabolism to apoptosis and necrosis following transient cerebral hypoxia-ischaemia. *Cell Death.Differ.* 1998; 5: 321-329.
 73. Traill Z, Squier M, Anslow P. Brain imaging in neonatal hypoglycaemia. *Arch.Dis.Child Fetal Neonatal Ed* 1998; 79: F145-F147.
 74. Felderhoff-Mueser U, Rutherford MA, Squier WV *et al.* Relationship between MR imaging and histopathologic findings of the brain in extremely sick preterm infants. *AJNR Am.J.Neuroradiol.* 1999; 20: 1349-1357.
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 76. Li FY, Tariq M, Croxson R *et al.* Mapping of autosomal dominant progressive external ophthalmoplegia to a 7-cM critical region on 10q24. *Neurology* 1999; 53: 1265-1271.

77. Sisodiya SM, Heffernan J, Squier MV. Over-expression of P-glycoprotein in malformations of cortical development. *Neuroreport* 1999; 10: 3437-3441.
78. Sisodiya SM, Heffernan J, Harrison PJ, Squier MV, Thom M. Sulcogyral variation in NMDA receptor 2A/B subunit immunoreactivity in human brain. *Neuroreport* 2000; 11: 2601-2606.
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80. Bruch LA, Jefferson RJ, Pike MG, Gould SJ, Squier W. Mycoplasma pneumoniae infection, meningoencephalitis, and hemophagocytosis. *Pediatr.Neurol.* 2001; 25: 67-70.
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BOOKS :

1. "Acquired Damage to the Developing Brain: Timing & Causation.". London: Arnold, 2002.
2. Hilton-Jones D, Matthews P, Squier M, Taylor D. "Metabolic Myopathies" for Major Problems in Neurology. WB SAUNDERS, 1995.

INVITED LECTURES:

I have been invited to give many individual lectures and to participate as a Course Tutor at many National and International Centres including St Petersburg, Perth, Australia and Adelaide, Australia in the last ten years. The more recent are detailed below.

2011

Invited Panellist 2011 New York City Abusive Head Trauma/Shaken Baby Syndrome Training Conference

Invited Speaker APIL clinical negligence conference 2011 Role of Neuropathology

Invited Tutor European Course in Basic Neuropathology
March 2011, Aachen, Germany

2010

October 2010 IAP Sao Paulo Lecture "Mimics of Child Abuse"

September 2010 European Congress of Pathology Invited Lecture
"Development of the Dura".

June 2010 "Neonatal Encephalopathy" Greek Congress of Pathology
Thessaloniki Greece

April 2010 Belgian National Pathology Week lecture "Neuropathology of Infant Subdural Haemorrhage"

January; "Human Cortical development" Lecture and Chapter for Anatomical Society of Great Britain. Symposium proceedings, Oxford

2009

October: Case Presentation in Muscle Symposium Latin American Society of Paediatric Pathology Antigua, Guatemala

October: "White Matter Disease in the Neonate". Leucoencephalopathy Course, Amsterdam

September: Discussion panel on Infant Head Injury Child Care Law Conference, London

June: "Brain Malformation and Epilepsy" Belgian Society of Neurology and Paediatric Neurology

February: Lecture on Dural Anatomy and fluid handling; Evidence Based Analysis of Infant Brain Trauma Conference. Denver, Colorado

January: British Neuropathology Society Trainees Study Day

Bache & Co Solicitors; Women Barristers Society

"Paediatric Neuropathology" Paediatric Pathology Teaching Course, Cyprus

2008

October: International Society of Paediatric Neurosurgeons
Infant Non Accidental Head Injury Cape Town

May: Non-accidental Infant Head Injury

1st International Conference "Violence against Children" Tallinn

March: Lecturer in Developmental Neuropathology. Teaching Course- Euro CNS
Aachen, Germany

2007

October: "Developmental Neuropathology" Developmental Psychology Course,
Charney Bassett, Oxon.

October: Brain Development and the effects of asphyxia
MSC course. Hammersmith Hospital London.

September: Asphyxia and the Neonatal Brain
International Congress of Paediatric Pathology Istanbul

September: Birth Trauma and the brain
International Congress of Paediatric Pathology Istanbul

2006

November: "SBS New Views" 8th Annual medico-legal lecture to Manchester
Medical Society.

September: "NAI in the Light of the Appeal Court Ruling"
Forensic Neuropathology Symposium. Royal College of Pathologists

May: Resident Lecturer in Developmental Neuropathology Paediatric and
Perinatal Course, Ismir, Turkey

May: "Abnormal Prenatal Development of the Human Cerebral Cortex" Lecture to First Doorwerth Conference on Developmental Disorders of Brain, The Netherlands.

April: "Brain Development, Normal and Abnormal Pathology and Imaging Correlations" Child Neuropsychology course, Charney Bassett, Oxon.

March: Euro-CNS European Training Course Organiser and Lecturer, Oxford

February: "Neuropathology of Infant Head Injury" University of Stellenbosch, South Africa

January: "How I contribute to the Diagnosis of Child Abuse" British Paediatric Neurology Association

2005

December: "The Neuropathologist in Court" West of England Neurology Course, Devon.

March : "Developmental Neuropathology" Developmental Psychology Course, Charney Bassett, Oxon.

"Intrauterine Stroke" Lecture to 2 day symposium on Congenital Hemiplegia, London.

2004

December: "Lessons from the Perinatal Autopsy" International Neonatal Study Course Hammersmith Hospital London

November : "Developmental Brain Lesions and Epilepsy" and "Uses of Muscle biopsy" West of England Postgraduate Neurology Course, Devon

October: "Neuropathology of Cerebral Palsy" International Academy of Pathology Brisbane

Sept: "Subdural Haemorrhages in Infants" and "Hypoxic-Ischaemic Injury in the Neonatal Brain" S. American Society of Paediatric Pathology Cartagena, Colombia

July: "Classification of Cerebral Palsy" NIH Washington

April: Principal Lecturer on Postgraduate Neurology Course Santiago, Chile

March: "Organ Retention and the future of Pathology" Royal College of Paediatrics and child Health York

Waney Squier

September 2011