

Summary Curriculum Vitae

Dr Daniel Birchall MA MB BChir (Cantab) MRCP FRCR MD MBA

- Current Position:** Consultant Neuroradiologist (1999 – present)
Regional Neurosciences Centre, Newcastle-upon-Tyne
President-Elect, British Society of Neuroradiologists
- Previous Appointments:** Royal College Du Boulay Professor of Neuroradiology 2019
Head of Service, Neuroradiology 2014 - 18
Head of Service, Neuroradiology 2006 - 09
Chair, Trust Information Systems Strategy Board
Deputy Senior Editor, *British Journal of Radiology*
Board Member, British Society of Neuroradiology
Committee Member, BSNR Standards Committee
College Tutor, Royal College of Radiologists
- Academic Qualifications:** BA Hons, Jesus College Cambridge University 1986
MB BChir, Cambridge University 1988
MA, Cambridge University 1990
Member of the Royal College of Physicians, London 1992
Fellow of the Royal College of Radiologists, London 1997
MD, Cambridge University 2003
Executive MBA, Newcastle University Business School 2009
- Academic Achievements:** > 100 publications
Distinction, Executive MBA
British Heart Foundation primary investigator grant holder
- External Appointments:** Chair of Governors, Newcastle Preparatory School
- Medico-Legal Experience:** > 1,000 medico-legal reports provided since 2008
75% Defendant : 25% Claimant

Summary of National Roles, Academic Record, and Managerial Achievements

1. National Role: British Society of Neuroradiologists & Royal College of Radiologists

In 2019, I was voted by the national body of Neuroradiologists as President-Elect of the British Society of Neuroradiologists.

In 2017, I was appointed as the du Boulay Professor of Neuroradiology on behalf of the Royal College of Radiologists and the British Society of Neuroradiologists. This is a prestigious national role that involves visiting radiology training centres around the United Kingdom, primarily in a teaching and an ambassadorial role.

I was a founder member of the Standards in Training Committee, of the British Society of Neuroradiologists. My role overseeing Standards in Neuroradiology included co-authorship of the primary standards document relating to training, facilities and service provision in Neuroradiology, and used as part of the national framework for Neuroradiology in the UK.

I am a sitting member of the Academic Committee of the Society of Neuroradiologists, which has oversight of the organization of national conferences and training courses, and of the promotion and support of academic Neuroradiology in the UK.

I initiated and drove an innovative National Neuroradiology Benchmarking Programme on behalf of the British Society of Neuroradiologists, liaising with all UK units, assimilating information from participating centres in relation to workload and work intensity, synthesizing the information into a unit-specific contextualized narrative, and publishing this as a resource for service planning. This benchmarking study was one of the first of its kind in the UK in relation to radiology service provision and represents the application of business research techniques to practical radiology service provision.

2. Summary of Academic Record

I have published over 100 papers, as lead author in a large proportion of these.

Over half of the publications have been in high ranking international scientific journals with Impact Factors of > 2. I have published 9 papers in *Neurology* [Impact Factor 8.2] and 7 papers in *JNNP* [Impact Factor 4.9], as well as being co-author on papers accepted for or published in *Lancet*, *Nature Communications*, *Circulation* and *Brain* [Impact Factors 10 - 39]. I have presented many times at conferences, the vast majority of which have been international and national radiological congresses.

The subject matter reflects the wide range of academic interests that I have fostered. The majority of my presentations over the course of 2013 - 2019 have related to my collaborative work in relation to the cognitive and psychophysical aspects of radiology reporting practice.

I am one of a small number of consultant radiologists awarded M.D., for my thesis entitled "A Study of the Nature and Clinical Significance of Rotational Deformation in Adolescent Idiopathic Scoliosis using Three-Dimensional MR Imaging". This was the culmination of four years' work and was based on successful grant funding from the British Scoliosis Society.

In 2009, I graduated as Executive MBA from the internationally renowned Newcastle University Business School. I was awarded Distinction for my Degree and was awarded the two available prizes: one for the Outstanding Student, and one for the Outstanding Dissertation. One of the key outputs was the final dissertation, entitled "A Study of Consultant Engagement within an NHS Foundation Trust Hospital", the world's first study of senior medical engagement.

I have acted as a senior editor at the British Journal of Radiology for 10 years. This role involves the review of a large number of original scientific papers each year; oversight of associate editorial reviews; administrative responsibilities including some author correspondence; the writing of Editorials and Commentaries; and liaising with leading academic groups around the country.

3. Summary of Managerial Record

I have been Head of Neuroradiology at the Regional Neurosciences Centre at Newcastle upon Tyne for two periods: 2006 – 2009 and 2015 – 2018. I successfully implemented significant strategic developments that received recognition from within the Trust, including alignment of Neuroradiology with the Trust's Objectives; redesign of the methods of data, information and performance measurement; formulation of a formal strategy and of the required initiatives to achieve the set goals; development of an engaged workforce and high performance work systems; re-engineering of administrative and operational processes; implementation of change on the basis of clinician and patient surveys; and service modernisation through the procurement of a major equipment replacement programme. Some of the tangible outputs of this process included an increase in productivity within the MR service of 75%; an increase in scanner occupancy from 72% to over 90%; a 300% increase in the productivity of the spinal injection service; and a reduction in waiting times for MR scanning from 130 weeks to 4 weeks. During this period, the national Neuroradiology Benchmarking Study also identified Newcastle as the most productive unit in the UK.

In 2010 I was appointed to the role of Chair of Information Systems for the Trust in order to formulate and implement a systematised, unified information systems strategy that supported the Trust in attaining its Mission and Objectives. I undertook a major programme of renewal, with the following key outputs: introduction of an effective, high performance project portfolio management system; initiation of effective clinician engagement and clinical governance of the Board's strategy and operations; implementation of effective executive reporting of progress towards objectives; and oversight of a programme of optimisation of the Trust's IT infrastructure, organisation and service delivery. A recent tangible outcome of this process has been the ranking of Newcastle upon Tyne Trust as the leading provider of clinical information technology in the country.

Publications

Birchall D, Khangure M.

The Wetterwinkel sign: a radiological sign re-discovered.

BSNR Conference Proceedings, 2019.

Birchall D, Bhatnagar P, Skarparis Y.

SWI in traumatic brain injury: a reliable test?

BSNR Conference Proceedings, 2019.

Birchall D, Bhatnagar P, Skarparis Y.

Monitoring of cognitive stress in diagnostic neuroradiologists.

BSNR Conference Proceedings, 2019.

Nanapragasam A, Bhatnagar P, **Birchall D**.

Trainee radiologist reports as a source of confirmation bias in radiology.

Clinical Radiology 2018;73:1052-1055.

Reicher J, Currie S, **Birchall D**.

Safety of working patterns among UK Neuroradiologists: what can we learn from the aviation industry and cognitive science?

British Journal of Radiology 2018;91.

Butt M, Skarparis Y, **Birchall D**.

Does radiology report structure affect radiologist productivity?

BSNR Conference Proceedings, 2018.

Reicher J, Currie S, **Birchall D**.

An analysis of work patterns among UK Neuroradiologists.

British Society of Neuroradiology Proceedings, 2017.

Lewis-Smith DJ, Duff J, Pyle A, Griffin H, Polvikoski T, **Birchall D**, Horvath R, Chinnery PF.

A novel HSPB1 mutation causes both motor neuronopathy and distal myopathy.

Neurology: Genetics 2016;2:2110.

Demetriou V, **Birchall D**.

Selective attention bias in Neuroradiology reporting.

British Society of Neuroradiology Proceedings, 2016.

Birchall D.

Spatial ability in Radiologists: An essential prerequisite?

British Journal of Radiology: Commentary. 2015:88.

Hunter E, Burton K, Iqbal A, **Birchall D**, ET AL..

Cysticercosis and epilepsy in rural Tanzania: a community-based case-control and imaging study.

Trop Med Int Health 2015;20:1171-1179.

Boczonadi V, Muller J, Pyle A, **Birchall D**, et al.

EXOSC8 mutations alter mRNA metabolism and cause hypomyelination with spinal muscular atrophy and cerebellar hypoplasia.

Nature Communications: 2014;5:4287.

Birchall D, Hall J, Yap L, Birchall K.

An analysis of the Psycho-physical factors contributing to Radiology reporting discrepancies.

British Society of Neuroradiology Proceedings, 2014.

Birchall D.

A systematic factor analysis in reporting discrepancies in a tertiary neuroradiology service.
British Society of Neuroradiology Proceedings, 2014.

Birchall D, Ghouri M, Shepherd A, Birchall K.

A study of visuospatial ability: is it fundamental to expert radiology practice?
British Society of Neuroradiology Proceedings, 2014.

Birchall D.

An analysis of behaviour patterns and psychological profiles within a neuroradiology service.
British Society of Neuroradiology Proceedings, 2014.

Jaiser S, Baker M, **Birchall D**, et al

Clinical Reasoning: a 39 year old man with abdominal cramps
Neurology 2013; 81:e5-9.

Lee K, Santibanez-Koref M, Polvikoski T, **Birchall D**, et al.

Increased expression of fatty acid binding protein 4 and leptin in resident macrophages characterises atherosclerotic plaque rupture.
Atherosclerosis 2013; 226:74-81.

Quinlivan R, Mitsuahasri S, Sewry C, **Birchall D**, et al.

Muscular dystrophy with large mitochondria associated with mutations in the CHKB gene in three British patients.
Neuromusc Disord 2013; 23:549-556.

Raftery G, Pearce R, **Birchall D** et al.

Disease activity and cognition in rheumatoid arthritis: an open label pilot.
Arth Res Therapy 2012; 14:R263.

Hunter E, Rogathi J, Chigudu S, **Birchall D**, et al.

Prevalence of active epilepsy in rural Tanzania: a large community-based survey in an adult population.
Seizure 2012; 21:691-698.

Dasarathi M, **Birchall D**, De San Lazaro C, et al.

Henoch-Schonlein purpura with posterior reversible encephalopathy syndrome.
Pediatr Neurol 2012; 46:42-43.

Hunter E, **Birchall D**, Whittaker R, et al.

Convulsive epilepsy in a rural district of northern Tanzania
JNNP 2012; Conference Proceedings 83:047.

Basu A, Horvath R, Esi B, **Birchall D**, Chinnery PF.

Recurrent stroke-like episodes in X-linked Charcot-Marie-Tooth disease.
Neurology 2011 70:1205-1206.

Raftery G, He J, Pearce R, **Birchall D**, et al.

TNF alpha blockade improves cognition in rheumatoid arthritis.
Ann Rheum Dis 2011; 70S:255.

Birchall D.

Benchmarking in radiology: apples and oranges?
British Journal of Radiology 2010;83:1-3.

Birchall D.

Primary care access to diagnostics: a paradigm shift.
British Journal of Radiology 2010;83:101-103.

Birchall D.

Computational Fluid Dynamics.

British Journal of Radiology 2010;82:S1-2.

Martin D, Zaman A, Hacker J, Mendelow AD, **Birchall D.**

Analysis of haemodynamic factors involved in carotid atherosclerosis using computational fluid dynamics.

British Journal of Radiology 2010;82:S33-38.

Barrett C, **Birchall D**, Todd NV.

Localisation of intracranial space occupying lesions with linear fiducial strips.

British Journal of Neurosurgery 2009; 23: 491-493.

Garrood P, Hollingsworth K, Eagle M, Aribisala B, **Birchall D**, et al.

MR imaging in Duchenne muscular dystrophy: quantification of fat infiltration, contrast uptake, and the effects of exercise.

Journal of Magnetic Resonance Imaging 2009; 30:1130-1138.

Lower limb radiology of distal myopathy due to S60F myotilin myopathy

McNeill A, **Birchall D**, et al

European Neurology 2009; 62:161-166.

Dodds N, Atcha A, **Birchall D**, Jackson A.

Use of high-resolution MRI of the optic nerve in Graves' ophthalmopathy.

British Journal of Radiology 2009; 82:541-544.

Schindler I, McIntosh R, Cassidy T, **Birchall D**, et al.

The disengage deficit in hemispatial neglect is restricted to between-object shifts and is abolished by prism adaptation.

Experimental Brain Research 2008; 192:499-510.

Kennelly M, Baker M, **Birchall D**, et al.

Hyperemesis gravidarum and first semester sagittal sinus thrombosis.

J Obs Gynaecol 2008; 4:453-454.

Gorman G, **Birchall D**, Fairgrieve S, Chinnery PF.

Fragile X pre-mutation in essential tremor: is it worth testing?

JNNP 2008 79:1195-1196.

McNeill A, **Birchall D**, Hayflick S, Chinnery PF.

T2* and FSE MRI distinguishes four subtypes of neurodegeneration with brain iron accumulation.

Neurology 2008; 70:1614-1619.

Butteriss D, Gholkar A, Mitra D, **Birchall D**, Jayakrishnan V.

Single center experience of cerecyste coils in the treatment of intracranial aneurysms.

AJNR 2008; 29:53-56.

Fotopoulou A, Conway M, Tyrer S, **Birchall D**, et al.

Is the content of confabulation positive?

Cortex 2008; 44:764-772.

Chinnery PF, Crompton D, **Birchall D**, et al.

Clinical features and natural history of neuroferritinopathy caused by the FTL1 460InsA mutation.

Brain 2007; 130:110-119.

Lee K, Polvikoski T, **Birchall D**, et al.

Genome-wide cell-specific gene expression analysis identifies the involvement of the adipocytokine signalling pathway in atherosclerotic plaque rupture

Circulation 2007; 116:363-364.

Birchall D, Zaman A, Hacker J, Davies G, Mendelow AD.
Analysis of hemodynamic disturbance in the atherosclerotic carotid artery using computational fluid dynamics.
European Radiology 2006; 16:1074-83.

Jaros E, Mahad D, **Birchall D**, et al.
Primary spinal cord neurodegeneration in Leber hereditary optic neuropathy.
Neurology 2007;68:214-216.

Sookhoo S, McKinnon I, Bushby K, Chinnery P, **Birchall D**.
MRI for the detection of subclinical muscle involvement in muscular dystrophy.
Clinical Radiology 2007; 62:160-165.

Birchall D, Tay K.
Multidetector CT in cerebrovascular disease - CT perfusion.
Clinical Radiology 2007; 62:1232.

Jaros E, Mahad D, Hudson G, **Birchall D**, et al.
Primary spinal cord neurodegeneration in Leber hereditary optic neuropathy.
Neurology 2007; 69:214-216.

Chinnery PF, Crompton D, **Birchall D**, et al.
Clinical features, natural history and pathology of neuroferritinopathy due to the FTL1 460InsA mutation.
Brain 2007; 130:110-119.

Fotopoulou K, Conway M, Griffiths P, **Birchall D**, Tyrer S.
Self-enhancing confabulation: revisiting the motivational hypothesis.
Neurocase 2007; 13:6-15.

Mitchell P, **Birchall D**, Mendelow AD.
Blood pressure, fatigue, and the pathogenesis of aneurismal subarachnoid haemorrhage.
Surg Neurol 2006; 66:574-580.

Butteriss D, Clarke M, **Birchall D**.
The Angel in the Marble.
British Journal of Radiology 2006; 79:359-361.
Butteriss D, **Birchall D**.
Syringomyelia associated with cervical spondylosis.
British Journal of Radiology 2006; 79:e123-125.

Punekar S, Butteriss D, **Birchall D**.
Various holes and lesions.
British Journal of Radiology 2006; 79:931-932.

Butteriss D, Mahad D, Soh C, Walls T, Weir D, **Birchall D**.
Reversible cytotoxic cerebral oedema in cerebral fat embolism.
American Journal of Neuroradiology 2006; 27:620-3.

Mitra D, Connolly D, Jenkins S, Gholkar A, **Birchall D**, English P.
Comparison of image quality, diagnostic confidence and inter-observer variability in contrast-enhanced MRA and 2D time of flight angiography in the evaluation of carotid stenosis.
British Journal of Radiology 2006; 79:201-7.

McIntosh RD, Schindler I, **Birchall D**, Milner AD.
Weights and measures: a new look at bisection behaviour in neglect.
Cognitive Brain Research 2005; 25:833-850.

Coulthard EJ, Firbank M, English PT, **Birchall D**, et al.
Proton magnetic resonance spectroscopy in frontotemporal dementia.
J Neurology 2006; 253:861-868.

Voros GM, **Birchall D**, et al.
Metastatic orbital leiomyosarcoma: imaging studies and review of the literature.
Ophth Plastic Reconstr Surg 2005; 21:453-5.

Birchall D, Poppe M, Bates D, Bushby K, Chinnery PF.
Subclinical semitendinosus and obturator externus involvement defines hereditary inclusion body myopathy with early respiratory failure.
Neuromusc Disord 2005; 15:595-600.

Padmanarahban R, Crompton D, Burn D, **Birchall D**.
Cerebellar tonsillar descent and syringomyelia following shunting for pseudotumour cerebri.
J Neurol Neurosurg Psychiatry 2005; 76:298.

Mercuri E, Bushby K, Ricci E, **Birchall D**, et al.
Muscle MRI findings in patients with limb girdle muscular dystrophy with calpain 3 deficiency.
Neuromuscular Disorders 2005; 15:164-171.

Butteriss D, Chinnery PF, **Birchall D**.
MR appearances of spinocerebellar atrophy type 6.
British Journal of Radiology 2005; 78:694-696.

Birchall D, Hughes DG, Gregson B, Williamson B.
Demonstration of vertebral and disc mechanical torsion in adolescent idiopathic scoliosis using three-dimensional MR imaging.

European Spine Journal 2005;14:123-129.

Wong S, Turner N, **Birchall D**, English P, Schmidt T, Walls T.
Reversible abnormalities of DWI in high altitude cerebral oedema.
Neurology 2004;62:335-336.

Chinnery PF, Cottrell D, **Birchall D**, Griffiths TD.
Limbic encephalitis: not a picture to forget.
Neurology 2004; 62:1019.

Chinnery PF, Cartlidge N, Goodship J, **Birchall D**, Stenhouse S.
Genetics in reverse.
Lancet 2004; 363:290.

McIntosh R, McClements K, Dijkerman H, **Birchall D**, Milner AD.
Preserved obstacle avoidance in patients with left visual neglect.
Neuropsychologia 2004; 42:1107-1117.

McIntosh R, McClements K, Schindler I, Cassidy T, **Birchall D**, Milner AD.
Avoidance of obstacles in the absence of visual awareness.
Proc R Soc Lond 2004; 271:15-20.

Leech S, Taylor A, Ramesh V, **Birchall D**, Lynch S
Widespread capillary malformation associated with global developmental delay.
Clinical Dysmorphology 2004; 13:169-172.

Cottrell DA, Blackmore KJ, Fawcett PR, **Birchall D**, Walls TJ.
Subacute presentation of Morvan's syndrome after thymectomy.
JNNP 2004; 75:1504-1505.

Zermansky A, Firbank M, **Birchall D**, Burn D.
A cross-sectional magnetic resonance spectroscopy study in PSP and indeterminate parkinsonism.
JNNP 2004 Conference Proceedings 75: 804-805.

Butteriss D, Clarke L, Dayan M, **Birchall D**.
Use of colour duplex ultrasonography to diagnose giant cell arteritis in a case of visual loss of uncertain aetiology.
British Journal of Radiology 2004; 77:607-609.

Birchall D, Connolly D, Walker L, Hall K.
MR myelography for the evaluation of cervical spondylotic radiculopathy.
British Journal of Radiology 2003; 76:525-531.

Harbison J, Gibson G, **Birchall D**, Zammit I, Ford G.
White matter disease and sleep-disordered breathing following acute stroke.
Neurology 2003; 61:959-963.

Poppe M, Cree L, Bourke J, Anderson L, **Birchall D**, Brockington M, Bushby K.
Phenotypic characterisation of limb-girdle muscular dystrophy due to FKRP mutations (LGMD2I).
Neurology 2003; 60:1246-1251.

Butteriss D, Ramesh V, **Birchall D**.
Serial MR appearances in paediatric hemiplegic migraine.
Neuroradiology 2003;45:300-303.

Butteriss D, Ellison D, **Birchall D**.
Differentiation of tumefactive plaque and glioma in multiple sclerosis using serial MR spectroscopy.
British Journal of Radiology 2003; 76:662-665.

Birchall D, Botan N.
Volume rendered MR angiography for the detection of small intracranial aneurysms.
British Journal of Neurosurgery 2003; 17:366-367.

Birchall D, English P, Tacconi L.
Noninvasive imaging of extracranial - intracranial bypass grafts using triplex ultrasound.
JNNP 2002; 73:594-596.

Harbison J, Zammit I, **Birchall D**, Ford G.
CT evidence of chronic cerebrovascular disease is associated with severity of post-stroke sleep apnoea
Stroke 2002; 33:392.

Porsche C, Walker L, Mendelow AD, **Birchall D**.
Evaluation of mural thickening in carotid atherosclerotic disease using spiral CT angiography.
European Journal of Vascular and Endovascular Surgery 2002; 23:437-440.

Walker L, Ismail A, McMeekin W, Lambert D, Mendelow AD, **Birchall D**.
CT angiography for the evaluation of carotid atherosclerotic plaque: correlation with histopathology of endarterectomy specimens.
Stroke 2002; 33:977-981.

Birchall D, Gholkar A, Todd NV.
Vertebroplasty for the treatment of painful osteoporotic vertebral collapse.
Neuroradiology 2002; 44:188.

Connolly D, **Birchall D**, Gholkar A.
Current theory in imaging of intracranial vascular disease.
Imaging 2002; 14:396-408.

Porsche C, Walker L, Mendelow AD, **Birchall D**.
Evaluation of cross-sectional lumen morphology in carotid atherosclerotic disease using spiral CT angiography.
Stroke 2001; 32:2511-2516.

Goddard AJ, Mendelow AD, **Birchall D**.
CT angiography in the demonstration of carotid artery atherosclerosis: a pictorial review.
Clinical Radiology 2001;56:523-534.

Birchall D, Khangure MS, McAuliffe W, Thomas W.
Delayed aneurysm rerupture despite complete endovascular occlusion.
British Journal of Neurosurgery 2001;15.

Golash A, **Birchall D**, Laitt RD, Jackson A.
Significance of CSF area measurements in cervical spondylotic myelopathy.
British Journal of Neurosurgery 2001; 15:17-21.

Birchall D, Khangure MS, McAuliffe W, ApSimon HT, Knuckey N.
Endovascular treatment of posterior circulation aneurysms.
British Journal of Neurosurgery 2001; 15:39-43.

Birchall D, Khangure MS, McAuliffe W, ApSimon HT, Knuckey N.
Endovascular treatment of subarachnoid haemorrhage in the elderly.
British Journal of Neurosurgery 2001; 15:35-38.

Birchall D, Song S, Hua J, Maddren L, Khangure MS.
Analysis of intracranial mass lesions using proton MR spectroscopy at 1.0T.
Australasian Radiology 2000; 44:385-391.

Birchall D, Hughes DG, West CG.
Recurrence of spinal dural AV fistula following successful endovascular treatment.
JNNP 2000;68:792-3.

Birchall D, Khangure MS, McAuliffe W.
Resolution of third nerve palsy following endovascular occlusion of aneurysms of the posterior communicating artery.
American Journal of Neuroradiology 1999; 20:411-3.

Birchall D, Khangure MS, Spagnolo D.
Vertebral synovial osteochondromatosis presenting with compressive myelopathy.
Spine 1999; 24:921-3.

Birchall D, Leong C, McAuliffe W.
Cerebral mucormycosis.
JNNP 1999;404-5.

Birchall D, Hughes DG, Robinson L, Williamson JB.
Analysis of intravertebral axial rotation in adolescent idiopathic scoliosis using three-dimensional MRI.
Chapter in "Research into Spinal Deformities" Ed. I.A.F.Stokes, p.61-64, IOS Press, Amsterdam 1998.

Birchall D, Hughes DG, Hindle J, Robinson L, Williamson JB.
Measurement of vertebral rotation in adolescent idiopathic scoliosis using three-dimensional MRI.
Spine 1997; 22:2403-7.

Birchall D, Laasch HU, Hughes DG, Wright NB.
MRI appearances of hyperacute, acute and subacute intracranial haemorrhage in children at 0.5 Tesla.
Neuroradiology 1997; 39:S96.

Birchall D, Fields JM, Chalmers N.
Delayed superficial femoral artery pseudoaneurysm rupture following successful compression therapy.
Clinical Radiology 1997; 52:629-30.

Birchall D, Fields JM, Poon CL.
Focal amyloidosis of the maxillary antrum: plain film, CT and MR appearances.
Clinical Radiology 1997; 52:392-3.

Fields JM, **Birchall D**, Chalmers N, Walker MG.
Percutaneous subclavian angioplasty: modified wireloop technique with use of the gooseneck snare.
Journal of Interventional Radiology 1996; 11:149-51.

Birchall D, Goodall KL, Noble JL, Jackson A.
Graves' ophthalmopathy: intracranial fat prolapse on CT images as an indicator of optic nerve compression.
Radiology 1996;200:123-7.

Editorial: Optic nerve dysfunction in thyroid eye disease: a clinician's perspective.
Radiology 1996; 200:26-27.

Laitt R, **Birchall D**, Jackson A.
Multiple sclerosis presenting as an unusual cerebral mass lesion.
Postgraduate Medical Journal 1995;71:427-9.

Birchall D, Carney AS, Morse M.
Ruptured adrenal artery aneurysm.
Clinical Radiology 1995;50:734-5.

Birchall D, Comty CM.
Addison's disease in the acquired immunodeficiency syndrome.
Medical Journal of Australia 1993;159:359-60.

Conference Presentations

The Wetterwinkel sign: a radiological sign re-discovered.

British Society of Neuroradiology, Cardiff, 2019.

[Oral presentation]

SWI in traumatic brain injury: a reliable test?

British Society of Neuroradiology, Cardiff, 2019.

[Oral presentation]

Monitoring of cognitive stress in diagnostic neuroradiologists.

British Society of Neuroradiology, Cardiff, 2019.

[Poster presentation]

Does radiology report structure affect radiologist productivity?

British Society of Neuroradiology, Dublin 2018.

[Poster presentation]

Safety of working patterns among UK Neuroradiologists: what can we learn from the aviation industry and cognitive science?

British Society of Neuroradiology, Cambridge 2017.

[Oral presentation]

Trainee radiologist reports as a source of confirmation bias in radiology.

British Society of Neuroradiology, Cambridge 2017.

[Oral presentation]

Safety of working patterns among UK Neuroradiologists: what can we learn from the aviation industry and cognitive science?

Royal College of Radiologists Annual Scientific Meeting, Liverpool 2017.

[Poster presentation]

Winner of best poster award.

Selective attention bias in Neuroradiology reporting.

British Society of Neuroradiology, York 2016.

[Poster presentation]

An analysis of the Psycho-physical factors contributing to Radiology reporting discrepancies.

British Society of Neuroradiology, Belfast 2014.

[Oral presentation]

A systematic factor analysis in reporting discrepancies in a tertiary neuroradiology service.

British Society of Neuroradiology, Belfast 2014.

[Oral presentation]

A study of visuospatial ability: is it fundamental to expert radiology practice?

British Society of Neuroradiology, Belfast 2014.

[Oral presentation]

An analysis of behaviour patterns and psychological profiles within a neuroradiology service.
British Society of Neuroradiology, Belfast 2014.
[Oral presentation]

Why Michelangelo would have made a great radiologist: a study of spatial ability in radiologists.
Northern Radiology Annual Scientific Meeting, Durham 2014.
[Oral presentation]

Beware the gorilla: A study of selective inattention among neuroradiologists.
British Society of Neuroradiology, Oxford 2013.
[Oral presentation]

Chiari Zero: A comparative study of the craniocervical junction in human and canine patients with Chiari malformation.
British Society of Neuroradiology, Oxford 2013.
[Oral presentation]

Investigation of the auricular acupoint - cortical associations using resting state connectivity Fmri.
American Society of Neuroradiology, San Diego 2013.
[Poster presentation]

The role of lumbar discography in the surgical management of patients with axial back pain: a single centre study.
American Society of Neuroradiology, San Diego 2013.
[Poster presentation]

Pictorial review of the various clinical, radiological and pathological findings of Chronic Lymphocytic Inflammation with Pontine Perivascular Enhancement Responsive to Steroids (CLIPPERS).
American Society of Neuroradiology, San Diego 2013.
[Poster presentation]

Analysis of the patient anxiolytic effect of ambient music within the neuroradiology theatre during fluoroscopic spinal interventions.
American Society of Neuroradiology, New York 2012.
[Poster presentation]

Atypical Henoch Schonlein Purpura and PRES.
European Paediatric Neurological Society, Zagreb 2011.
[Poster presentation]

Localisation of intracranial space occupying lesions with linear fiducial strips.
Society of British Neurosurgeons, London 2009.
[Poster presentation]

Quantitative neuroimaging in patients with neuroferritinopathy.
Society of MR in Medicine, Newcastle 2008.
[Oral presentation]

Genome-wide cell-specific approach to atherosclerotic plaque rupture identifies the involvement of the adipocytokine signalling pathway.

American Heart Association, Orlando 2007.

European Society of Cardiology, Barcelona 2006.

[Poster presentation][Winner, Best Poster Presentation.]

MRI for the characterisation of inclusion body myositis.

British Society of Neuroradiology, London 2007.

[Oral presentation]

Lesional changes within the basal ganglia correlate with phenotypic presentation in neuroferritinopathy.

British Society of Neuroradiology, London 2007.

[Oral presentation]

Genome-wide cell-specific expression analysis identifies the involvement of the adipocytokine signalling pathway in atherosclerotic plaque rupture.

British Cardiac Society Conference, London 2007.

[Poster presentation]

A genomic approach to atherosclerotic plaque rupture.

SCMS Research Day, Newcastle 2006.

[Poster presentation][Winner, Best Poster Presentation.]

Giant cell reparative granuloma of the skull: case presentation and literature review.

European Society of Skeletal Radiology, Bruges 2006.

[Poster presentation]

Analysis of haemodynamic disturbance in the atherosclerotic carotid artery using computational fluid dynamics.

British Society of Neuroradiology, Edinburgh 2005.

[Oral presentation]

Does MR spectroscopy predict survival in gliomas?

World Federation of Neuro-oncology, Edinburgh 2005.

[Poster presentation]

Analysis of haemodynamic patterns at the common carotid bifurcation using computational fluid dynamics.

British Society of Neuroradiology, Cambridge 2004.

[Oral presentation]

Cranial MRI appearances in neuroferritinopathy.

Royal Australasian College of Radiology Annual Conference, Perth 2004.

[Poster presentation]

Use of MR imaging for the phenotypic characterisation of muscular dystrophy.

Royal College of Radiologists Annual Conference, London 2003.

[Poster presentation]

Effect of rotational deformation on the correction achieved by instrumentation in idiopathic scoliosis using three-dimensional MR imaging.

Royal College of Radiologists Annual Conference, London 2003.

[Poster presentation]

Evaluation of MR digital subtraction angiography in the investigation of acute intracranial parenchymal haemorrhage.

Royal Australasian College of Radiology Annual Conference, Brisbane 2003.

[Poster presentation]

A cross-sectional magnetic resonance spectroscopy (MRS) study in PSP and indeterminate Parkinsonism.

Association of British Neurologists, Glasgow 2003.

[Poster presentation]

Chronic cerebrovascular disease and sleep disordered breathing following stroke.

British Association of Stroke Physicians, 2002.

[Poster presentation][Winner, Best Poster Presentation.]

Evaluation of mural thickening in carotid atherosclerotic disease using spiral CT angiography.

RSNA, Chicago 2001.

Congress of the German Society for Neurology, Aachen 2001.

[Poster presentation]

Evaluation of magnetic resonance myelography in the imaging of cervical spondylosis.

British Society of Neuroradiology, Harrogate 2001.

[Oral presentation]

A comparison of 2D TOF MRA and gadolinium-enhanced MRA in the evaluation of carotid stenosis.

British Society of Neuroradiology, Harrogate 2001.

[Oral presentation]

Dynamic subtraction magnetic resonance venography for the detection of dural sinus thrombosis.

British Society of Neuroradiology, Harrogate 2001.

[Oral presentation]

Correlation of proton MR spectroscopy of primary intracranial tumours and histopathological findings.

British Society of Neuroradiology, Harrogate 2001.

[Oral presentation]

Vertebroplasty for painful vertebral collapse: preliminary experience.

British Society of Neuroradiology, Harrogate 2001.

[Oral presentation]

Correlation of MR spectroscopy and histopathological findings in gliomas: preliminary results.

Royal Australasian College of Radiologists Annual Scientific Conference, Melbourne 2001.

[Poster presentation]

Use of MR myelography in the evaluation of cervical spondylosis.

Royal Australasian College of Radiologists Annual Scientific Conference, Melbourne 2001.

[Poster presentation]

A case of unclassified leukodystrophy with rapid deterioration and early death.

European Paediatric Neurology Society, Baden-Baden 2001.

[Poster presentation]

A sphenoid mucocele with fungal infection: an unusual cause of transient pituitary dysfunction and sixth nerve palsy.

7th International Pituitary Conference, Denver 2001.

[Poster presentation]

Intraoperative ultrasound for the localisation of intracranial and spinal pathology: a pictorial review.

British Medical Ultrasound Society Annual Scientific Meeting, Eastbourne 2000.

[Poster presentation]

Ultrasound imaging in the assessment of extracranial - intracranial vascular bypass procedures.

British Medical Ultrasound Society Annual Scientific Meeting, Eastbourne 2000.

[Poster presentation]

B Flow ultrasound imaging for the angiographic display of carotid atherosclerotic stenosis.

British Medical Ultrasound Society Annual Scientific Meeting, Eastbourne 2000.

[Poster presentation]

CT angiography for the evaluation of carotid atherosclerotic plaque: correlation with histopathology of endarterectomy specimens.

Royal College of Radiologists Annual Meeting, London 2000.

[Poster presentation]

CT angiography for the demonstration of carotid artery atherosclerotic disease.

Radiology 2000, Birmingham 2000

[Poster presentation]

Analysis of intracranial mass lesions using proton MR spectroscopy at 1.0T.

Royal Australasian College of Radiologists Annual Scientific Conference, Sydney 1999.

[Poster presentation]

Carotid Artery Stenting: Results in 55 Patients.

Royal Australasian College of Radiologists Annual Scientific Conference, Sydney 1999.

[Poster presentation]

Resolution of third nerve palsy following endovascular occlusion of aneurysms of the posterior communicating artery.

Royal Australasian College of Radiologists Annual Scientific Conference, Brisbane 1998.

[Poster presentation][Winner, Best Poster Presentation.]

Retrospective analysis of clinical outcome in elderly patients with a ruptured cerebral aneurysm treated by surgical clipping or intravascular coil occlusion.

Neurosurgical Society of Australasia Annual Scientific Meeting, Melbourne 1998.

[Poster presentation][Winner, Best Poster Presentation.]

Analysis of intravertebral axial rotation in adolescent idiopathic scoliosis using three-dimensional MRI.

International Society for MR in Medicine, Sydney 1998.

[Poster presentation]

Cerebral mucormycosis.

Australian Neurology Association, Brisbane 1998.

[Poster presentation]

Carotid artery stenting - results in the first 30 cases.

Australasian Interventional Radiology Society, Broome 1998.

[Oral presentation]

MRI appearances of hyperacute, acute and subacute intracranial haemorrhage in infants and young children at 0.5 Tesla.

European Society of Neuroradiology, Oxford 1997.

[Poster presentation]

Correlation of myelopathy and MR appearances in cervical spondylosis.

Roentgen Centenary Conference, Birmingham 1995.

[Poster presentation]