

***January 2014 – December 2014 Annual Academic Activity Report***

***The Centre for Spinal Studies and Surgery***

***Queen’s Medical Centre***

***Nottingham University Hospitals***

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| **Clinical Activity:** |  |
| **Spinal Outpatients:** |  |
| New complex and deformity patients: | 633 |
| Follow-up complex and deformity patients: | 2063 |
| New general patients: | 2630 |
| Follow-up general patients: | 4827 |

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| **Spinal Inpatients:** |  |
| Day case admissions: | 1686 |
| Elective admissions: | 838 |
| Non-elective admissions: 593 | |
| **Surgical cases performed by category:** | |
| Open degeneration cases: | 604 |
| Open deformity cases: | 174 |
| Open trauma cases: | 75 |
| Open tumour cases: | 49 |
| Min invasive trauma and tumour cases: 116 | |
| Miscellaneous cases: | 128 |
| *Total:* | 1146 |
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**Academic Activity:**

**PUBLICATIONS (in alphabetical order for consultant):**

**Mr BM Boszczyk**

**Papers accepted for publication or in revision:**

Sherlock KE, Turner W, Elsayed S, Bagouri M, Baha L, **Boszczyk BM**, McNally D

The evaluation of digital rectal examination for the assessment of anal tone in suspected cauda equina syndrome.

Accepted: Spine

**Original papers published (pubmed listed):**

44. Quraishi NA, Rajabian A, Spencer A, Arealis G, Mehdian H, **Boszczyk BM**, Edwards KL.

Re-operation Rates in the Surgical Treatment of Spinal Metastases.

Spine J. 2015 [Epub ahead of print]

Behrbalk E, Uri O, Parks RM, Grevitt MP, Rickert M, **Boszczyk BM.**

Posterior-only correction of Scheuermann kyphosis using pedicle screws: economical optimization through screw density reduction.

Eur Spine J. 2014 Aug 8. [Epub ahead of print]

Quraishi NA, Ramoutar D, Sureshkumar D, Manoharan SR, Spencer A, Arealis G, Edwards KL, **Boszczyk BM.**

Metastatic spinal cord compression as a result of the unknown primary tumour.

Eur Spine J. 2014 Jul;23(7):1502-7. Epub 2014 Apr 2.

König MA, Panzer S, Schulz J, Bierschneider M, **Boszczyk BM.**

Magnetic resonance imaging changes of intervertebral discs after kyphoplasty.

Eur Spine J. 2014 Mar 25. [Epub ahead of print]

König MA, Milz S, Bayley E, **Boszczyk BM.**

The direct anterior approach to the thoracolumbar junction: an anatomical feasibility study.

Eur Spine J. 2014 Mar 15. [Epub ahead of print]

Hasan MS, Carpenter N, Wei TL, McNally D, Ahmed I, **Boszczyk BM**

Effects of Adding Resorbable Phosphate Glass Fibres and PLA to Calcium Phosphate Bone Cements.

J Appl Biomater Funct Mater. Epub 2014

Konczalik W, Elsayed S, **Boszczyk B**.

Experience of a fellowship in spinal surgery: a quantitative analysis.

Eur Spine J. 2014 Apr;23 Suppl 1:S40-54

Rothenfluh DA, Koenig M, Stokes OM, Behrbalk E, **Boszczyk BM**.

Access-related complications in anterior lumbar surgery in patients over 60 years of age.

Eur Spine J. 2014 Apr;23 Suppl 1:S86-92. Epub 2014 Feb 15

Behrbalk E, Halpern P, **Boszczyk BM**, Parks RM, Chechik O, Rosen N, Shapira A, Merose O, Uri O.

Anxiolytic medication as an adjunct to morphine analgesia for acute low back pain management in the

emergency department: a prospective randomized trial.

Spine 2014 Jan 1;39(1):17-22.

Quah C, Yeoman MS, Cizinauskas A, Cooper K, Peirce N, McNally D, **Boszczyk B**.

Finite Element investigation of the effect of spina bifida on loading of the vertebral isthmus.

Spine J. 2014 Apr;14(4):675-82. Epub 2013 Nov 21.

**Published review articles (pubmed listed):**

Quraishi NA, Khurana A, Tsegaye MM, **Boszczyk BM,** Mehdian SM.

Calcified giant thoracic disc herniations: considerations and treatment strategies.

Eur Spine J. Eur Spine J. 2014 Apr;23 Suppl 1:S76-83.

**Published editorials, technical notes, reviewers comments and case reports (pubmed listed):**

Salem KM, Radhakrishnan A, Behrbalk E, **Boszczyk BM.**

The surgical management of atlanto-axial subluxation in juvenile rheumatoid arthritis.

Eur Spine J. 2014 Nov 27. [Epub ahead of print]

Behrbalk E, Uri O, Clamp JA, Rickert M, **Boszczyk BM.**

Bilateral reconstructive costoplasty for razorback deformity correction in adolescent idiopathic scoliosis.

Eur Spine J. 2014 Nov 7. [Epub ahead of print]

Srivastava A, **Boszczyk BM.**

The management of high-grade spondylolisthesis and co-existent late-onset idiopathic scoliosis

Eur Spine J. 2014 Sep 9. [Epub ahead of print]

Bayley E, **Boszczyk BM**, Chee Cheong RS, Srivastava A.

Major neurological deficit following anterior cervical decompression and fusion: what is the next step?

Eur Spine J. 2014 Jul 1. [Epub ahead of print]

**List of Book Chapters**

**Boszczyk B**, Jones A

Assessment and Treatment of Rheumatoid Arthritis and Inflammatory Spinal Diseases

In: Youman/Winn Neurological Surgery 7th ed

Elsevier 2014

Stokes O, **Boszczyk B**, Abumi K

*Cervical pedicle screws*

In: F. Shen, D. Samartzis, R. Fessler (eds), The Cervical Spine

Elsevier 2014

**Mr MP Grevitt**

[Does minimally invasive surgery decrease the rate of adjacent segment degeneration?](http://www.ncbi.nlm.nih.gov/pubmed/25371946)

**Grevitt M.**

J Neurosurg Sci. 2014 Jun;58(2 Suppl 1):35-40..

[Posterior-only correction of Scheuermann kyphosis using pedicle screws: economical optimization through screw density reduction.](http://www.ncbi.nlm.nih.gov/pubmed/25103951)

Behrbalk E, Uri O, Parks RM, **Grevitt MP,** Rickert M, **Boszczyk BM.**

Eur Spine J. 2014 Oct;23(10):2203-10.

[Do vertebral derotation techniques offer better outcomes compared to traditional methods in the surgical treatment of adolescent idiopathic scoliosis?](http://www.ncbi.nlm.nih.gov/pubmed/24570124)

Rushton PR, **Grevitt MP.**

Eur Spine J. 2014 Jun;23(6):1166-76.

[Double-curve synchronous derotation with convex correction: a new corrective technique for adolescent idiopathic scoliosis with double curves.](http://www.ncbi.nlm.nih.gov/pubmed/23719510)

Yang J, Huang Z, **Grevitt MP,** Li J, Li F, Yang J.

J Spinal Disord Tech. 2014 Feb;27(1):E32-6.

**Mr SMH Mehdian**

**Abstract Publications**

**EuroSpine Journal, Volume 23, Supplement 5, September 2014**

A radiographic analysis of cervical and pelvic parameters following segmental correction of scheuermann’s kyphosis ; **Hossein Mehdian**, Georgios Arealis, Sherief Elsayed, Oliver Stokes, Nasir Quraishi

Incidence of false positive spinal cord monitoring alerts in surgery for early onset scoliosis Oliver Stokes, Ed Bayley, Rob Burton, Sherief Elsayed, Dominique Rothenfluh, **Hossein Mehdian**

V-Y vertebral body osteotomy for the treatment of fixed flexion deformity of the spine **Hossein Mehdian**, Georgios Arealis, Sherief Elsayed, Oliver Stokes, Nasir Quraishi

**Publications**

Cervical Laminoplasty; **Hossein Mehdian**, Oliver M Stokes, Euro Spine J (2014) 23:2759-2762,DOI 10.1007/S00586-014-3634

Surgical Treatment and Outcomes, Early Onset Neuromuscular Scoliosis, Book Chapter,Oxford Early Onset Scoliosis ,**Hossein Mehdian**; Nasir Quraishi, in press

V-Y Vertebral body Osteotomy for the Treatment of Fixed Plane Spinal Deformity, **Hossein Mehdian**, Ranganthan Arun, Nick A.Aresti, The spine journal 2015.01.14

Growth Guided Instrumentation( Luque Trolly); Jean A. Ouellet, MD, FRCSC, Catherine E.Ferland, PhD, **Hossein Mehdian,** MD, MA, FRCS;

A Book chapter in Early Onset Scoliosis book, in press

Re-operation Rates in the Surgical Treatment of Spinal Metastases’

Nasir Quraishi, **Hossein Mehdian**, accepted for publication in The Spine Journal.

**Mr NA Quraishi**

[Surgical treatment of sacral chordoma: prognostic variables for local recurrence and overall survival.](http://www.ncbi.nlm.nih.gov/pubmed/25533857)

Varga PP, Szövérfi Z, Fisher CG, Boriani S, Gokaslan ZL, Dekutoski MB, Chou D, **Quraishi NA,** Reynolds JJ, Luzzati A, Williams R, Fehlings MG, Germscheid NM, Lazary A, Rhines LD.

Eur Spine J. 2014 Dec 23.

Expert's comment concerning Grand Rounds case entitled: "trans-oral approach for the management of a C2 neuroblastoma"

(K. M. I. Salem, J. Visser, and **N. A. Quraishi**).Choi D.

Eur Spine J. 2015 Jan;24(1):177-9.

Diagnosis and treatment of a rectal-cutaneous fistula: a rare complication of coccygectomy.

Behrbalk E, Uri O, Maxwell-Armstrong C, **Quraishi NA.**

Eur Spine J. 2014 Nov 1.

A cohort study to evaluate cardiovascular risk of selective and nonselective cyclooxygenase inhibitors (COX-Is) in arthritic patients attending orthopedic department of a tertiary care hospital.

Bhosale UA, **Quraishi N**, Yegnanarayan R, Devasthale D.

Niger Med J. 2014 Sep;55(5):417-22.

An evidence-based medicine model for rare and often neglected neoplastic conditions.

Fisher CG, Goldschlager T, Boriani S, Varga PP, Rhines LD, Fehlings MG, Luzzati A, Dekutoski MB, Reynolds JJ, Chou D, Berven SH, Williams RP, **Quraishi NA,** Bettegowda C, Gokaslan ZL.

J Neurosurg Spine. 2014 Nov;21(5):704-10.

Intraspinal canal rod migration causing late-onset paraparesis 8 years after scoliosis surgery.

Obeid I, Vital JM, Aurouer N, Hansen S, Gangnet N, Pointillart V, Gille O, Boissiere L, **Quraishi NA.** Eur Spine J. 2014 Jun 6

Metastatic spinal cord compression as a result of the unknown primary tumour.

**Quraishi NA**, Ramoutar D, Sureshkumar D, Manoharan SR, Spencer A, Arealis G, Edwards KL, **Boszczyk BM.**

Eur Spine J. 2014 Jul;23(7):1502-7.

Trans-oral approach for the management of a C2 neuroblastoma.

Salem KM, Visser J, **Quraishi NA.**

Eur Spine J. 2015 Jan;24(1):170-6.

Reviewer's comment concerning "Calcified giant thoracic disc herniations--considerations and treatment strategies" (DOI 10.1007/s00586-014-3210-5 by **N.A.** **Quraishi** et al.).

Germon T.

Eur Spine J. 2014 Apr;23 Suppl 1:S84-5.

A novel scientific model for rare and often neglected neoplastic conditions.

Fisher CG, Goldschlager T, Boriani S, Varga PP, Fehlings MG, Bilsky MH, Dekutoski MB, Luzzati A, Williams RP, Berven S, Chou D, Reynolds JJ, **Quraishi NA,** Rhines LD, Bettegowda C, Gokaslan ZL. Evid Based Spine Care J. 2013 Oct;4(2):160-2. doi: 10.1055/s-0033-1357365.

**Mr M Shafafy**

Open reduction and posterior instrumentation of type 3 high transverse sacral fracture-dislocation: technical note.

[Starantzis KA](http://www.ncbi.nlm.nih.gov/pubmed/?term=Starantzis%20KA%5BAuthor%5D&cauthor=true&cauthor_uid=24867310), [Mirzashahi B](http://www.ncbi.nlm.nih.gov/pubmed/?term=Mirzashahi%20B%5BAuthor%5D&cauthor=true&cauthor_uid=24867310), [Behrbalk E](http://www.ncbi.nlm.nih.gov/pubmed/?term=Behrbalk%20E%5BAuthor%5D&cauthor=true&cauthor_uid=24867310), [Sadat M](http://www.ncbi.nlm.nih.gov/pubmed/?term=Sadat%20M%5BAuthor%5D&cauthor=true&cauthor_uid=24867310),[**Shafafy M**](http://www.ncbi.nlm.nih.gov/pubmed/?term=Shafafy%20M%5BAuthor%5D&cauthor=true&cauthor_uid=24867310).

[J Neurosurg Spine.](http://www.ncbi.nlm.nih.gov/pubmed/?term=Shafafy+2014) 2014 Aug;21(2):286-91

**PRESENTATIONS:**

**Mr BM Boszczyk**

**Contributions to scientific meetings & educational lecture assignments 2014**

M. Czyz, **B. Boszczyk**

*Low grade infection*

*Postoperative spondylodiscitis*

*Craniocervical kyphosis*

*Complex upper cervical trauma*

AOSpine Masters Symposium, Davos, Switzerland, December 2014

E. Behrbalk, **B. Boszczyk**

*Fusion and Subsidence Rate of Stand Alone Anterior Lumbar Interbody Fusion using PEEK Cage with Recombinant Human Bone Morphogenetic Protein-2 Positive Sagittal Balance Correction Using ALIF and TDR Motion Preservation Hybrid Construct without Posterior Fixation – Radiographic Results*

The 34th Annual Meeting of the Israel Orthopaedic Association (IOA) in conjunction with the 2nd

Conference of the Mediterranean Trauma Society, 26-28 November 2014, Tel-Aviv, Israel.

S. Trecarten, R. Parks, Kaiser, E. Behrbalk , D .McNally, **B. Boszczyk**

*A Pilot Project Evaluating the Use of an Innovative Diagnostic Anal Probe for Cauda Equina Syndrome in Healthy Volunteers*

15th European Congress of Neurosurgery – EANS, 12-17 October, 2014, Prague, Czech Republic.

E. Behrbalk, **B. Boszczyk**

*Thoracic Kyphotic Deformity Staged Correction in Severe Osteoporotic Patients – Surgical Technique, Clinical and Radiographic Results*

15th European Congress of Neurosurgery – EANS, 12-17 October, 2014, Prague, Czech Republic.

R. Parks, M. Rickert, E. Behrbalk, **B. Boszczyk**

*Is hydronephrosis a complication after Anterior Lumbar Interbody Fusion?*

The 9th German Spine Society meeting, Congress Center Leipzig, 11-13. December 2014.

15th European Congress of Neurosurgery – EANS, 12-17 October, 2014, Prague, Czech Republic.

**Mr SMH Mehdian**

**2ND OXFORD EARLY ONSET SCOLIOSIS MEETING, 4-5 September, 2014**

**Moderator, Hossein Mehdian**

Faculty Member

Podium presentation:

Early Onset Neuromuscular Scoliosis Classifications and Implications for Surgery

**Scoliosis Research Society, 49th Annual Meeting & Course**

**September 8-13, 2014, Anchorage, Alaska**

Podium Presentations:

Annual Report- Global Outreach Committee, Tuesday, September 9, 2014, 12:30-1:30 PM, **GOP Committee Chair H Mehdian**

Correction of Scheuermann's Kyphosis Sagittal Parameters & PJK, Hibbs Society Meeting

**EuroSpine Meeting 1-3 October, 2014 Lyon**

Podium Presentations

A radiographic analysis of cervical and pelvic parameters following segmental correction of scheuermann’s kyphosis

**Hossein Mehdian**, Georgios Arealis, Sherief Elsayed, Oliver Stokes, Nasir Quraishi , The Centre for Spinal Studies and Surgery, Queens Medical Centre, Nottingham, UK

Eurospine lunch symposium, faculty member, Lecture;

Corrective Spinal Osteotomies in Ankylosing, **Hossein Mehdian**,

Nottingham, UK

V-Y vertebral body osteotomy for the treatment of fixed flexion deformity of the spine **Hossein Mehdian**, Georgios Arealis, Sherief Elsayed, Oliver Stokes, Nasir Quraishi

Centre for Spinal Studies and Surgery, Queens Medical Centre, Nottingham, UK

Incidence of false positive spinal cord monitoring alerts in surgery for early onset scoliosis Oliver Stokes, Ed Bayley, Rob Burton, Sherief Elsayed, Dominique Rothenfluh, **Hossein Mehdian**

Centre for Spinal Studies and Surgery, Queen's Medical Centre, Nottingham, UK

**22ed Annual Meeting of Iranian Orthopaedic Association, 13-17 October, 2014, Tehran-Iran**

**Guest Speaker and Faculty Member**

Podium Presentations

Anterior Approach to Spine Surgery

Adult Spinal Deformity

Correction of Scheuermann's Kyphosis Sagittal Parameters & PJK

**SRS Worldwide Course 2014**

In association with the *Russian Association of Spinal Surgeons*

*Young Surgeons Section, November 28-29, 2014, Novosibirsk, Russia*

Invited Faculty Member

Podium Presentations

Treatment of Adult Degenerative Scoliosis

Spondyloptosis: Surgical Management

**Korean Spine Society Meeting Nov. 15-16 , 2014 in Yeosu, Korea**

**Invited Guest Speaker and Faculty Member**

Corrective Spinal Osteotomies in Ankylosing Spondylitis

Management of Neuromuscular Scoliosis

**Mr NA Quraishi**

Conservative Treatment for Thoracolumbar Spinal Fractures – Expert Lecture

**N A Quraishi**

Oral presentation

Faculty, AO Spine Davos Courses, Thoracolumbar Trauma, December 2014

Thoracolumbar Spinal Fracture Type C – Case Presentation & Case Solution

**N A Quraishi**

**Oral presentation**

Faculty, AO Spine Davos Courses, Thoracolumbar Trauma, December 2014

Osteoporotic Thoracolumbar Spinal Fractures – Case Summary & Take Home Message

**N A Quraishi**

Oral presentation

Faculty, AO Spine Davos Courses, Thoracolumbar Trauma, December 2014

Indications for Occipital-Cervical Fusion – Summary & Take Home Message

**N A Quraishi**

Oral presentation

Faculty, AO Spine Davos Courses, Cervical Trauma, December 2014

Spinal Cord Injury Without Radiological Abnormality (SCIWORA) –Expert Lecture

**N A Quraishi**

Oral presentation

Faculty, AO Spine Davos Courses, Cervical Trauma, December 2014

Spinal Cord Injury Without Radiological Abnormality (SCIWORA) –Summary & Take Home Message

**N A Quraishi**

Oral presentation

Faculty, AO Spine Davos Courses, Cervical Trauma, December 2014

Adult Scoliosis – Epidemiology, Assessment and Diagnosis

**N A Quraishi**

Invited lecture

Budapest-Bologna 3rd Spinal meeting in Tumor & Ageing Spine, Budapest, November 2014

Non-invasive versus Invasive Techniques in Lumbar Degenerative Disc Disease

**N A Quraishi**

Oral Presentation

Faculty, AO Spine Advanced Course in Degenerative Spine

Riga, Latvia, November 2014

Chair of Diagnostics Section

AO Spine Advanced Course in Degenerative Spine

Riga, Latvia, November 2014

Decompression versus Decompression and Stabilization

**N A Quraishi**

Oral Presentation

Faculty, AO Spine Advanced Course in Degenerative Spine

Riga, Latvia, November 2014

Anterior Lumbar Interbody Fusion versus Disc Replacement – How to choose the right method

**N A Quraishi**

Oral Presentation

Faculty, AO Spine Advanced Course in Degenerative Spinal Disorders

Riga, Latvia, November 2014

British Spinal Tumour Group

**N A Quraishi**

Invited panel member, Birmingham, Nov 2014

Outcomes of Management and Risks of Recurrence of Symptomatic Spinal Hemangiomas:

**A Multicenter Series of 68 Cases.**

Christina L Goldstein, Ziya L Gokaslan, Alessandro Luzzati, Laurence D Rhines, Charles GFisher, Dean Chou, Richard Williams, **Nasir A Quraishi**, Chetan Bettegowda, Norio Kawahara,

Michael G Fehlings.

Poster presentation, San Francisco, USA, November 2014

A Radiographic Analysis Of Cervical And Pelvic Parameters Following SegmentalCorrection Of Scheuermann’s Kyphosis.

Hossein Mehdian, Georgios Arealis, Sherief Elsayed, Oliver Stokes, **Nasir Quraishi**

Podium presentation, Eurospine, Lyon, France, October 2014

Prognostic Variables For Local Recurrence And Overall Survival After SurgicalTreatment Of Sacral Chordoma An Analysis From Aospine Tumor Knowledge Forum Primary Spinal Tumor Retrospective Database.

Peter Pal Varga, Zsolt Szoverfi, ZiyaGokaslan, Charles Fisher, Stefano Boriani, Mark Dekutoski, Dean Chou, **Nasir Quraishi,** Michael Fehlings, Laurence Rhines

Podium presentation “Best of Show”, Eurospine, Lyon, France, October 2014

V-Y Vertebral Body Osteotomy For The Treatment Of Fixed Flexion Deformity Of The Spine

Hossein Mehdian, Georgios Arealis, Sherief Elsayed, Oliver Stokes, **Nasir Quraishi**.

Podium presentation, Eurospine, Lyon, France, October 2014

A Multicentre Retrospective Cohort Study Of Spinal Osteoid Osteomas: SurgicalTreatment And Local Recurrence Results

**Nasir A. Quraishi,** Stefano Boriani, Peter PalVarga, Alessandro Luzzati, Ziya L. Gokaslan, Michael G. Fehlings, Charles G. Fisher, Laurence, D. Rhines, Jeremy J. Reynolds, Richard Williams

Podium presentation, Eurospine, Lyon, France, October 2014

Primary Osteosarcomas Of The Spine: A Multicenter Review Of 57 Surgical Cases.

Michelle J. Clarke, Peter Pal Varga, Laurence D. Rhines, Charles G. Fisher, Dean Chou,

**Nasir A. Quraishi,** Michael G. Fehlings, Ziya L. Gokaslan, Stefano Boriani.

Podium presentation, Eurospine, Lyon, France, October 2014

The 2014 Scoliosis Research Society Travelling Fellowship

**N A Quraishi,** M Enercan, J Naresh Babu, D Chopin

Podium Presentation at the 49th SRS meeting, Anchorage, Alaska, September 2014

Complications in Primary versus Revision 3 Column Osteotomy in Adult Spinal Deformity

**N A Quraishi,** A Khurana, A Spencer, K Salem

Oral presentation

Hospital for Bone & Joint Disease, New York, USA, SRS

San Francisco, USA

Scoliosis Research Society Travelling Fellowship, August-September 2014

Radiological Outcome of Cervical and Lumbar Parameters with Surgical Correction in

Scheuermann’s Kyphosis

H Mehdian, G Arealis, **N A Quraishi**

Oral presentation

San Diego Childrens’ Hospital, USA, Scoliosis Research Society Travelling Fellowship,

August-September 2014

Current Concepts in the Surgical Management of Spinal Metastases

**N A Quraishi**

Oral presentation, St Louis, USA, Scoliosis Research Society Travelling Fellowship,

August-September 2014

Global Spinal Tumour Study Group

**N A Quraishi**

Invited Faculty, London, UK, July 2014

The 5th Nottingham Anterior Spinal Access Course

**N A Quraishi**

Course Chair, Nottingham, UK, June 2014

Podium presentation, Complications in the Anterior Lumbar Retroperitoneal Approach

Invigilator for cadaveric session

Chair for live surgery session

Reducing the Pelvic Incidence through a S2 Pedicle Subtraction Osteotomy with Sacral-

Pelvic Disarticulation and Anterior Pelvic Rotation

A Khurana, **NA Quraishi**

Invited podium presentation, Britspine meeting , Warwick, April 2014

Multi-Centre Retrospective Cohort Study of Spinal Osteoid Osteomas: Surgical treatment

and local recurrence results

**N A Quraishi**, S Boriani, P Varga, A Luzzati, Z L Gokaslan, M G Fehlings, C Fisher, M

Dekutoski, L Rhines, J Reynolds, C Bettegowda, N Kawahara, R Williams

Invited podium presentation, Britspine meeting , Warwick, April 2014

Trans-oral approach for the management of a C2 Neuroblastoma

Salem, J Visser, **NA Quraishi**

European Spine Journal 23 (1), S107, April 2014

Invited special poster presentation, Britspine meeting , Warwick, April 2014

The Nottingham Questionnaire: A New Tool to Assess Quality of Life in Neuromuscular Scoliosis

Hoda Mohajer-Bastami, Ann Marriott, Jim Hegarty, George Arealis, Bev Beeson, **Nasir A**

**Quraishi,** Hossein Mehdian

Invited poster presentation, Britspine meeting , Warwick, April 2014