

## ***April 2009 – April 2010 Annual Activity Report***

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

***Queen's Medical Centre***

***Nottingham University Hospitals***

### **Clinical Activity:**

#### **Spinal Outpatients:**

New complex and deformity patients:	747
Follow-up complex and deformity patients:	1660
New general patients:	3725
Follow-up general patients:	6578

#### **Spinal Inpatients:**

Day case admissions:	2112
Elective admissions:	834
Non-elective admissions:	583

#### **Surgical cases performed by category:**

Open degeneration cases:	570
Open deformity cases:	154
Open trauma cases:	40
Open tumour cases:	32
Min invasive trauma and tumour cases:	74
Miscellaneous cases:	159
<i>Total:</i>	<i>1029</i>

## **Academic Activity:**

### **Publications:**

Scoliosis in Duchenne's muscular dystrophy: a changing trend in surgical management : A historical surgical outcome study comparing sublaminar, hybrid and pedicle screw instrumentation systems.

**Arun R, Srinivas S, Mehdian SM.**

Eur Spine J. 2009 Sep 17. [Epub ahead of print]

Pathogenesis of adolescent idiopathic scoliosis in girls - a double neuro-osseous theory involving disharmony between two nervous systems, somatic and autonomic expressed in the spine and trunk: possible dependency on sympathetic nervous system and hormones with implications for medical therapy.

**Burwell RG, Aujla RK, Grevitt MP, Dangerfield PH, Moulton A, Randell TL, Anderson SI.**

Scoliosis. 2009 Oct 31;4:24.PMID: 19878575

Lamina-guided lateral mass screw placement in the sub-axial cervical spine.

**Bayley E, Zia Z, Kerlake R, Klezl Z, Boszczyk BM.**

Eur Spine J. 2009 Dec 1. [Epub ahead of print]

Percutaneous approach to the upper thoracic spine: optimal patient positioning.

**Bayley E, Clamp J, Boszczyk BM.**

Eur Spine J. 2009 Dec;18(12):1986-8. Epub 2009 Jul 3.

The ipsilateral lamina-pedicle angle: can it be used to guide pedicle screw placement in the sub-axial cervical spine?

**Bayley E, Zia Z, Kerlake R, Boszczyk BM.**

Eur Spine J. 2009 Sep 1. [Epub ahead of print]

Clinical outcomes of sacroplasty in sacral insufficiency fractures: a review of the literature.

**Bayley E, Srinivas S, Boszczyk BM.**

Eur Spine J. 2009 Sep;18(9):1266-71. Epub 2009 Jun 6.

When is the appropriate time for surgical intervention of the herniated lumbar disc in the adolescent?

**Fakouri B, Nnadi C, Boszczyk B, Kunsky A, Cacciola F.**

J Clin Neurosci. 2009 Sep;16(9):1153-6. Epub 2009 Jul 9.

Spine surgery training and competence of European neurosurgical trainees.

**Boszczyk BM, Mooij JJ, Schmitt N, Di Rocco C, Fakouri**

Acta Neurochir (Wien). 2009 Jun;151(6):619-28. Epub 2009 Mar 18.

Intraoperative multimodality monitoring in adult spinal deformity: analysis of a prospective series of one hundred two cases with independent evaluation.  
**Quraishi NA, Lewis SJ, Kelleher MO, Sarjeant R, Rampersaud YR, Fehlings MG.**

Spine (Phila Pa 1976). 2009 Jun 15;34(14):1504-12.PMID: 19483667

Giant destructive myxopapillary ependymomas of the sacrum.

**Quraishi NA, Wolinsky JP, Bydon A, Witham T, Gokaslan ZL.**

J Neurosurg Spine. 2010 Feb;12(2):154-9.

Isolated vertical fracture of the anterior arch of the atlas - Case report

**S Srinivas, E J Bayley, N Harshavardhana, S M H Mehdian**

Injury Extra 40 (2009), pp. 152-154

Spinal epidural hematoma after insertion of a thoracic epidural catheter in the absence of coagulation disorders - A call for raised awareness.

**Fakouri B, Srinivas S, Magaji S, Kunsy A, Cacciola F.**

Neurol India. 2009 Jul-Aug;57(4):512-3.

Percutaneous access to the thoracic spine – A safe approach.

**Clamp J, Bayley E, Srinivas S, Boszczyk B.**

Eur Spine J (2009) 18(Suppl 4): S473

Translation and validation of the Persian Version of the fear avoidance belief questionnaire.

**Mousavi SJ, Montazeri A, Parnianpour M, Mobini B, Mehdian SMH,**

**Omidvari S.** Submitted to the Spine Journal

Reliability and validity of the Persian version of the scoliosis research society - 22(SRS-22) patient questionnaire;

**Mousavi SJ, Mobini B, Askary AR, Bouzari B, Parnianpour M, Mehdian SMH**

published in Spine Journal, vol 35, 2010

Isolated vertical fracture of the anterior arch of the anterior arch of the atlas - case report.

**S Srinivas, N Harshavardhana, E Bayley, SMH Mehdian;**

Published in Injury Journal, 632; 2009

Scoliosis in Duchenne's muscular dystrophy: a changing trend in surgical management. A historical surgical outcome study comparing sublaminar, hybrid and pedicle screw instrumentation systems.

**Ranganathan Arun, S Srinivas, SMH Mehdian**

Published on ESJ; 30 August 2009

Compartment syndrome of leg following total lumbar disc replacement via anterior retroperitoneal approach: A rare complication of anterior spinal surgery.

**Magaji SA, Debnath UK, Mehdian H**

Published in spine Journal, Jan 2010

**Presentations:**

**Harshavardhana N, Debnath U, Grevitt M, Mehdian H, Thambiraj S, Freeman B, Webb J.** Two decade results in surgical management of congenital scoliosis. Pediatric Orthopaedic Society of North America (POSNA) annual meeting, Boston, MA, USA, April 2009.

**Harshavardhana N, Debnath U, Grevitt M, Mehdian H, Thambiraj S, Freeman B, Webb J.** Factors predictive of curve progression and timing of definitive fusion for early-onset scoliosis with minimum follow-up of 13 years. Pediatric Orthopaedic Society of North America (POSNA) annual meeting, Boston, MA, USA, April 2009.

**Harshavardhana N, Debnath U, Grevitt M, Mehdian H, Thambiraj S, Freeman B, Webb J.** Factors Predictive of Curve Progression & Timing of Definitive Fusion in Early Onset Scoliosis (EOS) treated by Growing Rod (GR) Construct Canadian orthopaedic association (COA) annual meeting, whistler, BC, Canada, July 2009.

**U K Debnath, S Shobaki, J Lewis, J Hegarty, BJC Freeman, MP Grevitt, SMH Mehdian, JK Webb.** A Prospective Outcome Analysis of Artificial Disc Replacement Versus Anterior Interbody Fusion in single level Symptomatic L5/S1 Degenerative Disc Disease Spine Arthroplasty Society meeting, May 2009 London

**Burwell RG, Aujla RK, Grevitt MP, Dangerfield PH, Moulton A, Randell TL, Anderson SI.** Aetiopathogenesis of adolescent idiopathic scoliosis in girls. Disharmony between two nervous systems, somatic and autonomic, expressed in the spine and trunk. A double neuro-osseous theory. Rachide & Rehabilitation multidisciplinare Quinto Evidence-based Meeting, 21 marzo 2009, Jolly Hotel, Assago, Milano. Magistral Lecture by Geoffrey Burwell

**Burwell G, Aujla R, Grevitt M, Randell T, Dangerfield P, Cole A, Kirby A, Polak F, Pratt R, Moulton A, Webb J** Different systemic skeletal overgrowth patterns in preoperative girls with adolescent idiopathic scoliosis (AIS) revealed by higher and lower body mass index subsets (Supported by AO). Brit Assoc Clin Anatomists Dundee July 2009

**Harshavardhana NS, Debnath UK, Dabke HV, Mehdian HS, Boszczyk BM, Grevitt MP, Webb JK.** Selective C1–C2 arthrodesis for non-RA pathologies: long term functional outcome study. Global Spine Congress. San Francisco, June 2009

**Kerr H, Dabke HV, Collins I, Grevitt M.** Claustrophobia: a new yellow flag? Global Spine Congress. San Francisco, June 2009

**Mehdian HS, Ranganathan A, Harshavardhana NS, Freeman BC** Reduction of high grade adolescent isthmic spondylolisthesis using a three-stage shortening procedure. Global Spine Congress. San Francisco, June 2009

**Grevitt MP, Clamp JA, Andrews JR.** A study of the radiological predictors of curve flexibility in adolescent idiopathic scoliosis. Global Spine Congress. San Francisco, June 2009

**B. Boszczyk.** Hypogastric plexus and sympathetic chain injuries  
3rd AOSpine Complications Management Course, Sept. 2009 Strasbourg  
France

**E. Bayley, Z. Zia, S. Srinivas, R Kerslake, B. Boszczyk.** The ipsilateral lamina – pedicle angle: can it be used to guide pedicle screw placement in the cervical spine? Cervical Spine Research Society, 10.-13. June 2009, Uppsala, Sweden (poster) British Association of Spine Surgeons & British Cervical Spine Society (combined annual meeting), 26.-27. February 2009 (podium presentation)

**E. Bayley, Z. Zia, S. Srinivas, R. Kerslake, Z. Klezl, B Boszczyk**  
The lamina as a guide for safe lateral mass screw placement in the sub-axial cervical spine – a computed tomography study Cervical Spine Research Society, 10.-13. June 2009, Uppsala, Sweden (poster). Spine Society of Europe, Warsaw 21-24 October (special poster)

**J Clamp, E Bayley, S Srinivas, BM Boszczyk**  
Fluoroscopic guided percutaneous access to the thoracic spine – a safe approach. Spine Society of Europe, Warsaw 21-24 October (poster)

**NS Harshavardhana, J Hegarty, BJ Freeman, B Boszczyk, H Dabke, J Weston, A Race.** Payment by results (PbR) in spinal surgery (poster)  
British Association of Spine Surgeons & British Cervical Spine Society Feb. 2009

**S Srinivas, F Cacciola, EJ Bayley, IE Collins, SMH Mehdian**  
Re-operations in adolescent idiopathic scoliosis : Does approach matter? EuroSpine, Warsaw, Poland, October 2009, Presented at BSS meeting, Leicester 2009.

**J Clamp, E Bayley , B Boszczyk.** 'Percutaneous access to the Thoracic spine – A safe approach.' EuroSpine 2009, Warsaw, Poland.

**S Srinivas, E Bayley, B Fakouri, B Boszczyk.** Straight Leg Raise in Asymptomatic Individuals – Normal variations.' BOA Annual Congress, Manchester.

**S Srinivas, E Bayley. B Boszczyk.** Anterior triple screw fixation of an odontoid fracture. BTS Annual Scientific Meeting, Newcastle.

**E Bayley, J Clamp, B Boszczyk.** Percutaneous approach to the upper Thoracic spine – optimal patient positioning. BASS/BCSS combined meeting, Memorial Hall, Sheffield

**Mehdian R,Nutt JL,Harshavardhana NS,Mehdian SMH.**

Beware of SRS presentations;their natural history and fate.Presented at BSS Meeting,Leicester 2009 and San Antonio meeting San Antonio, Texas 2009.

**Mehdian SMH,Harshavardhana NA,Debnath UK,Webb JK.**

Longterm clinico-radiological results following scheuermann's kyphosis:a nine year follow-up study,Presented at BSS Meeting,Leicester 2009

**S Srinivas,IE Collins,SMH Mehedian.** Late Costoplasty in idiopathic Scoliosis,Presented at BSS Meeting,Leicester 2009