



**LICENSURE AND CERTIFICATION**

<b>Date</b>	<b>Licensure / Certification</b>
1996	<b>ECFMG CERTIFICATION</b> August 1996, Certificate No 0-555-898-6
1997	<b>USMLE STEP III</b> completed in July 1997
1996	<b>USMLE STEP II</b> completed in August 1996
1996	<b>USMLE STEP I</b> completed in June 1996

**POSTGRADUATE AND POSTDOCTORAL TRAINING:**

<b><u>DATE</u></b>	<b><u>SPECIALTY</u></b>	<b><u>INSTITUTION</u></b>
Jul 2002 – June 2004	Spine Fellow, William Beaumont Hospital	Royal Oak, Michigan 48073, USA
Jul 1999 – Apr. 2000	Spine Fellow, Centre for Spinal Studies & Surgery	Queen's Medical Centre, Nottingham, UK
Jul 1998 – Dec 1999	Orthopaedic Spine Fellow	Texas back Institute, Plano, Texas, USA
Jul 1997 – June 1998	Spinal Fellow, Centre for Spinal Studies & Surgery	Queen's Medical centre, Nottingham, UK
Jan 1997 – June 1997	Spinal Fellow, Dept. of Neurosurgery (Senior Resident Neurosurgery)	Walton Centre for Neurology & Neurosurgery, Walton, Liverpool, UK
Feb 1996 – Dec 1996	Senior Housing Officer (Junior resident) Spinal Surgery	Centre for Spinal Studies & Surgery, Nottingham, UK
Feb. 1995 – Feb 1996	Registrar (Orthopaedics) (Senior resident)	Ormskirk & District General Hospital, Lancs., UK
1995	M. Ch. Ortho.	University of Liverpool, UK
Sep. 1986 – Sep. 1989	Assistant Medical Officer (Orthopaedics)	Continued three years as Assistant Orthopaedic Surgeon (Specialist Registrar/Fellow) in the Rialway Orthopaedic Institute & Research Centre, Eastern Railway, Howrah, India
<b>1986</b>	<b>Diplomate of National Board of Exam</b>	<b>New Delhi, India</b>
Oct 1985 - Sep 1986	Postgraduate Training (Orthopaedics) (PGY- additional year)	One years as Assistant Orthopaedic Surgeon (Specialist Registrar) in the Railway Orthopaedic Institute & research Centre, Eastern Railway, Howrah, India – as part of Diplomate of National Board of Examination (DipNBE) course.
<b>1985</b>	<b>Masters of Surgery</b>	
Oct 1983 – Sep 1985	Postgraduate Trainee (PGT) (Orthopedics) (PGY 4 & 5)	Two-years of residency towards the MS Orthopedics Course in Institute of Postgraduate Educations and Research, Calcutta, India

Oct 1982 – Sep 1983	Postgraduate Training (Orthopaedics) (PGY - additional year)	One year as Resident in the Railway Orthopaedic Institute & Research Centre, Eastern Railway, Howrah, India – as part of Diplomate of National Board of Examination (DipNBE) course.
<b>1982</b>	<b>Diploma in Orthopedics</b>	<b>Calcutta University, India</b>
Oct 1981- Sept. 1982	Postgraduate trainee (PGT) (Orthopedics) (PGY-3)	One year of residency towards Diploma in Orthopedics course in Medical College Calcutta
Aug. 1980- Sep. 1981	House-surgeon, Orthopedic Surgery (PGY-2)	One year two months in the Dept. of Orthopedic Surgery, Medical College, Calcutta, India, Required for entrance to post-graduate courses (Diploma and Masters Degree).
Aug. 1979-Jul. 1980	Pre-registration Rotating Internship (PGY-1)	Calcutta Medical College & Hospitals Calcutta, India
1972 - 1979	MBBS	Calcutta Medical College, 88 College Street, Calcutta, India

**ACADEMIC APPOINTMENTS:**

<u>DATE</u>	<u>ACADEMIC TITLE</u>	<u>INSTITUTION</u>
July 2012	Honorary visiting professor	Dr. M.G.R. Medical University Chennai, India
Dec 2010- current	Associate Professor	Dartmouth Medical School Hanover, NH
July 19, 2004	Assistant Professor	Dartmouth Medical School Hanover, NH
Oct 1992 – Dec. 1994	Consultant Orthopedic Surgeon – equivalent to Assistant Professor, for teaching Diplomate of National Board in Orthopedics resident trainees	Kothari Institute of Medical Sciences and Research Center, Calcutta, India
Sep 1989 – Oct 1992	Divisional Medical Officer (Orthopaedics) – equivalent to Assistant Professor, for teaching Diplomate of National Board in Orthopedics resident trainees	Railway Ortho. Institute & Research Center, Calcutta, India

**HOSPITAL APPOINTMENTS:**

<u>DATE</u>	<u>HOSPITAL TITLE</u>	<u>INSTITUTION</u>
July 19, 2004- till date	Orthopedic Surgeon	Dartmouth Hitchcock Medical Center Lebanon, NH
Sep 2000 – June	Associate Specialist Spinal Surgeon	Queen's Medical Centre, Nottingham, UK

2002

May 2000 – Aug 2000 & Jun 2001 – Sep 2001	Locum Consultant Spinal Surgeon	Queen's Medical Centre, Nottingham, UK
Oct 1992 – Dec. 1994	Consultant Orthopedic Surgeon	Two years and two months in the Kothari Institute of Medical Sciences and Research Center, Calcutta, India
Sep 1989 – Oct 1992	Divisional Medical Officer (Orthopaedics)	Three years as Consultant Orthopaedic Surgeon in the Railway Ortho. Institute & Research Ctr., Calcutta, India

**MAJOR COMMITTEE ASSIGNMENTS AND CONSULTATIONS:****National/International:**

<b><u>YEAR</u></b>	<b><u>COMMITTEE</u></b>	<b><u>ROLE</u></b>	<b><u>INSTITUTION</u></b>
2011-2012	EBM committee	Member	North American Spine Society
2010-2011	Research Grant Committee	Chairman	Scoliosis Research Society
2010-2011	Awards Committee	Member	Scoliosis Research Society
2008-2002	Research Grant Committee	Member	Scoliosis Research Society
2008-2011	Evidence-based medicine Comm.	Member	Scoliosis Research Society
2005-2009	Global Outreach Committee	Member	Scoliosis Research Society
2008-2009	Scientific Program Committee	Reviewing Abstracts and drafting the program of annual meeting	Scoliosis Research Society
2008-2010	Scientific Program Committee	Reviewing Abstracts and drafting the program of annual meeting	Spine Arthroplasty Society
2005-2009	Spinal Cord Monitoring committee	Member	Scoliosis Research Society
2005--2006	Scientific Program Committee	Reviewing Abstracts and drafting the program of annual meeting	Scoliosis Research Society
2005-2006	Scientific Program Committee	Reviewing Abstracts and drafting the program of annual meeting	Spine Arthroplasty Society
2005-2006	Journal and publication committee	Editing the book on Biomechanics of non-fusion technology	Spine Arthroplasty Society

2006-2007	Membership and Web-site	Member	Spine Arthroplasty Society
2005-2006	Scientific Committee-Overseas	Co-ordinator	Indian Orthopaedic Association
2003-2006	Scientific Committee-Overseas	Chairman	Association of Spine Society of India (ASSI)
1989-1992	Hospital visiting Committee	Secretary	Rly. Ortho. Inst. & Res. Ctr. Calcutta, India
1987-1992	Scientific Committee	Chairman	Doctors Association, Rly. Ortho. Inst. & Res. Ctr. Calcutta, India

**Institutional:**

<u>YEAR</u>	<u>COMMITTEE</u>	<u>ROLE</u>	<u>INSTITUTION</u>
2009-current	Evaluation and Professionalism Committee	Member, Managing Evaluation of the Professional quality of the staff	Dartmouth-Hitchcock Med Ctr
2009-2011	Metrics Committee	Member, Managing the Safety and Quality data	Dartmouth-Hitchcock Med Ctr

**MEMBERSHIP, OFFICE & COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES:**

<u>DATE</u>	<u>SOCIETY</u>	<u>ROLE</u>
2000-present	British Scoliosis Society	Member
2000-present	Spine Arthroplasty Society	Member
2000-present	Scoliosis Research Society	Full member
2000-present	International Society for the Study of the Lumbar Spine	Member
1998-present	North American Spine Society	Member
1987-present	Association of Spine Surgeons in India	Life member
1986-present	World Orthopaedic Concern	Member
1986	Medical College Ex-students Association	Life member
1986	Indian Foot Society	Life member
1985-1995	Indian Association of Sports Medicine	Member
1984	West Bengal Orthopedic Association	Life member
2000 onwards	West Bengal Orthopedic Association	Overseas Coordinator
1982-1995	Indian Rheumatism Association	Member
1982-present	Indian Orthopaedic Association	Life member

2006 - Indian Orthopaedic Association Overseas Coordinator

**HUMANITARIAN ACTIVITIES:**

1989 - Participated in establishment of a rural health service, and a charitable hospital in a remote village of Nalta, Bangladesh, together with Dr. George W. Bagby.

2009 – Initiated Spinal Deformity Surgery in a Medical College in Dhaka, Bangladesh performed scoliosis surgery in a camp, and organized training, workshop and for the local surgeon – in establishing spinal deformity surgery

2010 – Organized surgery and workshop session on ‘Low-cost spinal deformity surgery’ in Kolkata, India to focus attention to the rural population.

2011 – Organized the 2<sup>nd</sup> Scoliosis surgery camp (training the post-graduate students and performing scoliosis surgeries for free) in Bangladesh in July 2011

**AWARDS AND HONORS:**

<u>DATE</u>	<u>AWARD NAME</u>
2012	SRS – Biomechanics research grant award
2008	North American Spine Society Biomechanics Research Grant Award (Toronto, CN)
2001	Best Clinical Paper Award – British Scoliosis Society Meeting (Edinburgh, UK)
1999	Best Clinical Paper Award – British Cervical Spine Society Meeting (Bristol, UK)
1993	Fellow of the International College of Surgeons (Indian Chapter)
1992	Silver Jubilee Oration (Best Research Paper Award, Indian Ortho Assn)
1991	<i>Johnson &amp; Johnson</i> Travelling Fellowship of the Indian Ortho. Assn
1988	A.O. International Fellowship (Germany)
1982	First position in Diploma in Orthopaedics exam. (University of Calcutta, India)
1979	Secured second highest marks in ‘Medicine’ in the University (Medical School)
1975	Gold Medal in Physiology (Medical School)
1973	Junior Class Assistant in Physiology (Medical school)
1973-1977	Annual College Scholarships (Medical School)

1971 National Scholarship in Higher Secondary Examination (High School leaving Exam)

**MEMBER OF EDITORIAL BOARDS OF PEER REVIEWED JOURNALS:**

<u>DATE</u>	<u>JOURNAL</u>	<u>ROLE</u>
2002-2011	Spine	Reviewer
2009	Spine	Member of Editorial Board & reviewer
2011	Spine	Associate editor
2006-2009	Indian Journal of Orthopedics	Member – advisory board and reviewer
2011	The Spine Journal	Associate, editorial board, and reviewer
2010-2012	SPINE LINE	Associate Editor
2011	Journal of Spinal Deformity (SRS)	Deputy Editor

**JOURNAL REFEREE ACTIVITIES:**

<u>DATE</u>	<u>JOURNAL NAME</u>	
2012	Spine Deformity	Deputy Editor
2011	The Spine Journal	Reviewer
2008-2011	European Spine Journal	Reviewer
2008-2011	Journal of Orthopedic Research	Reviewer
2008-2011	Journal of Clinical epidemiology	Reviewer
2007-2011	Spine Arthroplasty Society Journal	Reviewer
2008-2011	Yonsei Medical Journal (S. Korea)	Reviewer
2008-2011	Clinical Orthopedic Practice	Reviewer
2005-2011	Indian Journal of Medical Sciences	
2002-2011	Clinical Orthopaedics & Related Research	Reviewer
2002-2011	Spine	Member of Editorial Board & reviewer – Associate editor
1987-1988	Journal of the West Bengal Orthopaedic Association (Kolkata – India)	Member editorial board & reviewer
2006-2011	Indian Journal of Orthopedics	Reviewer, & Member of Advisory Board
2006-2011	Neurology India	Reviewer

**Other Activities: MAJOR RESEARCH INTERESTS:****RESEARCH FUNDING:****Past:**

1. Fulcrum Assisted Soft stabilisation in the treatment of Low Back Pain – Feasibility study  
-Supported by Wishbone Trust for the feasibility study – 1996 (GBP 23,000)
2. Fulcrum Assisted Soft stabilisation in the treatment of Low Back Pain – Stage 1, Stage 2, and Stage 3  
-Supported by AO International, Switzerland – 1997 (GBP 220,000)
3. Dynamic Stabilization System (DSS) in the treatment of low back pain  
-Supported by Spinal Concepts Inc. Austin, Texas, USA and Texas Back Institute, Plano Texas, USA (USD 30,000)
4. Ultraviolet technology in the treatment of degenerative disc disease.  
Supported by Visionary Biomedicals Inc., Roswell, Georgia, USA (USD 20,000)
5. Kinematics after disc replacement – supported by Synthes, USA (USD 40,000)
6. Kinematics of Cervical spine – Supported by Beaumont Major Research Grant, 2003 (USD 25,000)
7. Kinematics of lumbar spine motion segment in search of ‘Instability of the Lumbo-Sacral spine – supported by DePuy J&J, Boston, MA USA (USD 65,000)

**Dartmouth 2004-2011:**

1. Relationship of Instant Axis of Rotation and disc pressure in normal and degenerative lumbar disc – North American Spine Society Research grant 2008-9 (USD 50000)
2. Biomechanical evaluation of BioFlex dynamic stabilization system in cadaver spine – research Grant from Bispine, Seoul, Korea (USD 60000)
3. Biomechanical evaluation of the ‘Flexusspine’ posterior dynamic stabilization (research grant USD 10,000)
4. Accuracy and validity of manual vs. electronic measurement of motion in the lumbar spine radiographs - CPHS#17468
5. Biomechanical evaluation of Transition™ dynamic stabilization device in cadaver spine – grant from Globus Medical Inc. (USD 20,000)
6. Biomechanical evaluation of the posterior lumbar disc prosthesis – Grant from Globus Medical Inc. (USD 30,000)
7. New Biomechanics Laboratory in DHMC – Grant support from Globus Medical Inc. (USD 50,000 for personnel, and Spine Testing machine = USD 30,000)

**Grant Research Completed in 2013****1. Hitchcock Foundation research grant – Biomechanics of distal fixation in adult deformity surgery****New Research Grant Awarded (2012-2013)**

1. Biomechanics of dynamic stabilization in prevention of proximal junctional kyphosis in adult deformity surgery  
- Scoliosis Research Society grant (USD 10,000 – for one year)

**New Research Grant Applied for (2012-2013)**

**1. Biomechanical evaluation of a novel pelvic fixation technique in adult deformity surgery – Applied to NASS research grant in 2013 with proposal**

**2. Prospective randomized controlled trial of two different bone graft harvesting from the iliac crest – Applied to NASS research grant 2013 with proposal**

**CURRENT RESEARCH INTEREST:**

1. Understanding of disc degeneration in the lumbar spine – and etiology of chronic low back pain
2. Understanding spinal instability – Biomechanical definition of spinal instability – Instant Axis of Rotation, Disc Pressure Profilometry
3. Role of Dynamic Stabilization in the surgical treatment of Low Back Pain
4. Role of disc replacement vs. dynamic stabilization in Total Joint Replacement in spine

5. Interaction between depression and chronic low back pain

**PATENTS:**

1. **Device for the stabilisation of two adjacent vertebral vertebral bodies of the spine**  
Inventors: Dilip K. Sengupta and Robert C. Mulholland  
International patent application No. PCT/CH99/00612 (1999)
2. **Assembly for the stabilisation of the vertebral bodies of the spine**  
Inventors: Dilip K. Sengupta and Robert C. Mulholland  
US patent application # 10/480986 dated June 2005, patent allowed, and due for publication 2009
3. **Assembly for the stabilisation of the vertebral bodies of the spine**  
Inventors: Dilip K. Sengupta and Robert C. Mulholland  
International Patent Number WO 01/45576 A1 Date of Publication 28 Jun 2001  
Patent granted in UK, Germany, Italy, and France
4. **Assembly for the Stabilization of the vertebral bodies of the spine**  
Inventors: Dilip K. Sengupta and Robert C. Mulholland, European Patent EP1399078

**TEACHING EXPERIENCE/CURRENT TEACHING RESPONSIBILITIES:****Dartmouth Medical School:**

<u>DATE</u>	<u>TEACHING</u>
2009-2012	Degenerative diseases of the spine – 2 lectures for 2 <sup>nd</sup> year Med Students
2009-2012	Research Guidance to DMS yr 2 student – on Depression and Ch LBP
2008-2012	Degenerative diseases of the spine – 2 lectures for 2 <sup>nd</sup> year Med Students
2004-2002	DMS 4 <sup>th</sup> year medical students – rotating as SI, shadowing in the clinic and OR

**Dartmouth College:**

<u>DATE</u>	<u>TEACHING</u>
2006-2007	Sponsor and Guide for ENGS 190 project for Thayer School of Engg. Students on Designing a Motorized Shaver for Cleaning a Disc Space [ Students: Gruber, Hynes and Toms]
2006-2007	Sponsor and Guide for ENGS 190 project for Thayer School of Engg. Students on Design of a radiolucent cervical retractor [Students: Gaito, Petryk and Golding]

**Dartmouth-Hitchcock Medical Center:**

2004-2012	Grand round talk on management of Low back pain in DHMC Keen
2004-2011	Assistant Professor, Orthopedics – involved is resident education including lectures, Grand rounds, and hands-on surgical training, and research
2005-2011	Organized and lectured in Spine Core-curriculum for the residents
2005-2012	Organized summer institute course for the residents

2005-2012 Demonstrated Anatomy dissection on cadaver for spine to residents

**Regional:**

2005 & 2006 Faculty, CME in Spine, organized University of South Florida, Hawks Key, FL

2004 Faculty, Spine fellows course, DePuy Spine, Boston, MA

2003 Faculty, CME in Spine, organized by Cedars Sinai Med Ctr, LA, at Las Vegas

**National:**

2007- 2009 Faculty in Spine Study Group meeting in Miami, FL

2007-2009 Faculty in MERC meeting – Spine Biomechanics, and Deformity Surgery

2002 Course chairman, PowerPoint course, NASS annual meeting, San Diego

1999 Faculty – Symposium on application IT in Spinal Surgery, NASS annual meeting, Chicago

**International:**

1985-1990 Faculty – Diploma and Certificate course in Sports Medicine, Calcutta India

2005 Faculty – World Spine- Rio, Brazil 2005 – CME program

2008 Faculty – SRS regional course, New Delhi, India

2009 SAS – Regional course, Chennai, India

**ORGANIZING COURSES;**

**AO Spine Course 2000**

**Organizing Secretary-ASSICON 2000**

**MIDCON Course 2007**

**Scoliosis workshop in Bangladesh 2009**

**INVITED PRESENTATIONS:****Visting Professor / Guest Lecture:**

<u>DATE</u>	<u>TOPIC</u>	<u>ORGANIZATION</u>	<u>LOCATION</u>
2011	Dynamic Stabilization	Spine Society in Korea	Jeju Island, Korea
2009	Dynamic Stabilization	National Ortho. Hospital	Mexico city
2008	Spinal stabilization	Scoliosis Research Society CME	New Delhi, India
2006	Dynamic Stabilization	Yongdong Severance Spine Hospital Symposium	Seoul, Korea
2006	Dynamic Stabilization, Scoliosis management	2nd international Spine Surgery Course Clinica las Condes	Santiago, Chile
2005	Dynamic Stabilization, Rheumatoid Spine	International Spine Course	University of Sao Paulo in Ribeiro-Preto, Brazil
2004	Dynamic Stabilization, Scoliosis Classification, Disc Replacement	National Ortho. Hosp, annual meeting	Mexico City, Mexico
2002	Posterior Dynamic Stabilization, Spinal Trauma, Artificial Disc Replacement	National Ortho. Hosp, annual meeting	Mexico City, Mexico

**BIBLIOGRAPHY:****Journal Articles:****Original Articles:**

1. Sengupta DK, Bucklen B, Ingahalikar A, Muzumdar A and Khalil S. Does Semi-Rigid Instrumentation Using Both Flexion and Extension Dampening Spacers Truly Provide an Intermediate Level of Stabilization?- Adv Orthop. 2013 (*in press* - manuscript # Article 738252)
2. Sengupta DK, Bucklen B, McAfee PC, Nichols J, Angara R, and Khalil S. The Comprehensive Biomechanics and Load-Sharing of Semi-rigid PEEK and Semi-Rigid Posterior Dynamic Stabilization Systems. Adv Orthop. 2013 (*in press* - manuscript # Article 745610)
3. Sengupta DK, Demetropoulos CK, Herkowitz HN. Instant axis of rotation of L4-5 motion segment--a biomechanical study on cadaver lumbar spine. J Indian Med Assoc. 2011 Jun;109(6):389-90, 392-3, 395.
4. Pearson A, Blood E, Lurie J, Abdu W, Sengupta D, Frymoyer JW, Weinstein J. Predominant leg pain is associated with better surgical outcomes in degenerative spondylolisthesis and spinal stenosis: results from the Spine Patient Outcomes Research Trial (SPORT). Spine (Phila Pa 1976). 2011 Feb 1;36(3):219-29.
5. Pearson AM, Spratt KF, Genuario J, McGough W, Kosman K, Lurie J, Sengupta DK. Precision of lumbar intervertebral measurements: does a computer-assisted technique improve reliability? Spine 2011 Apr 1;36(7):572-80.

6. Loftus RW, Yeager MP, Clark JA, Brown JR, Abdu WA, Sengupta DK, Beach ML. Intraoperative ketamine reduces perioperative opiate consumption in opiate-dependent patients with chronic back pain undergoing back surgery. 2010 Sep;113(3):639-46
7. Demetropoulos CK, Sengupta DK, Knaub M, Wiater BP, Abjornson C, Truumees E, and Herkowitz HN. Biomechanical Evaluation of the Kinematics of the cadaver lumbar spine following Disc Replacement with the Prodisc-L Prosthesis Spine. 2010 Jan 1;35(1):26-31.
8. Demetropoulos CK, Morgan CR, Sengupta DK, Herkowitz HN. Development of a 4-axis load cell used for lumbar interbody load measurements. Med Eng Phys. Med Eng Phys. 2009 Sep;31(7):846-51. Epub 2009 May 17.
9. Sengupta DK, Truumees E, Patel CK, Kazmierczak C, Hughes B, Elders G, Herkowitz HN. Outcome of local bone versus autogenous iliac crest bone graft in the instrumented posterolateral fusion of the lumbar spine. *Spine*. 20;31(9):985-91, Apr 2006.
10. Sengupta DK, Mulholland RC. Fulcrum assisted soft stabilization system: a new concept in the surgical treatment of degenerative low back pain. *Spine*. 1;30(9):1019-29; discussion 1030, May 2005.
11. U. Debnath, J. McConnell, D. Sengupta, S. Mehdian, J. Webb. Results of hemivertebrectomy and fusion for symptomatic thoracic disc herniation. *European Spine Journal*. E-publication
12. Sengupta DK, Mehdian SMH, Eisenstein SM, McConnell JR, Webb JK. Pelvic or Lumbar fixation for the surgical management of scoliosis in Duchenne Muscular Dystrophy. *Spine*. Sept 15; 27:2072-2079
13. Sengupta DK, Mehdian S, Mulholland RC, Webb JK, Ohnmeiss DD. Biomechanical evaluation of immediate stability with rectangular versus cylindrical interbody cages in stabilization of the lumbar spine. *BMC Musculoskelet Disord*. 2002 Oct 3;3(1):23.
14. Mulholland RC, Sengupta DK. Rationale principles and experimental evaluation of the concept of Soft Stabilization. *Eur Spine J*. 2002 Oct;11 Suppl 2:S198-205.
15. Kumar N, Kukreti S, Ishaque M, Sengupta DK, Mulholland RC. Functional anatomy of the deer spine: an appropriate biomechanical model for the human spine? *Anat Rec* 2002 Feb 1;266(2):108-17
16. Sengupta DK, Khazim R, Grevitt MP, Webb JK. Flexion osteotomy of the cervical spine: a new technique for correction of iatrogenic extension deformity in ankylosing spondylitis. *Spine* 2001 May 1;26(9):1068-72
17. Sengupta DK, Dorgan J, Findlay GF. Can hindbrain decompression for syringomyelia lead to regression of scoliosis? *Eur Spine J* 2000 Jun;9(3):198-201
18. Mehdian SH, Sengupta DK, Agoristides Y, Eisenstein SM, Webb JK. Surgical management of Duchenne Muscular Dystrophy – is sacral fixation necessary? *J Bone Joint Surg [Br]* 2000;82-B(Suppl.III):282
19. Sengupta DK, Dorgan J, Findlay GF. A preliminary report on the effect of hind brain decompression for syringomyelia on the progress of scoliosis. *J Bone Joint Surg [BR]* 2000; 82-B(Suppl.I):40
20. Regan JJ, Aronoff RJ, Ohnmeiss DD, Sengupta DK. Laparoscopic approach to L4-L5 for interbody fusion using BAK cages: experience in the first 58 cases. *Spine* 1999 Oct 15;24(20):2171-4
21. Sengupta DK, Kirollos R, Findlay GF, Smith ET, Pearson JC, Pigott T. The value of MR imaging in differentiating between hard and soft cervical disc disease: a comparison with intraoperative findings. *Eur Spine J* 1999;8(3):199-204
22. Sengupta DK, Grevitt MP, Mehdian SM. Hypoglossal nerve injury as a complication of anterior surgery to the upper cervical spine. *Eur Spine J* 1999;8(1):78-80

23. Kumar S, Sengupta DK, Grevitt MP, Webb JK. Corrective osteotomy in Ankylosing Spondylitis – Outcome and Complications - *J Bone Joint Surg [BR]* 1998; 80-B(Suppl.III):276
24. Sengupta DK, Findlay GFG, Dorgan JC. How idiopathic is idiopathic scoliosis. *J Bone Joint Surg [BR]* 1998;80-B(Suppl. II): 188
25. Sengupta DK, Gupta S. Chloroquine-Phosphate in the treatment of Rheumatoid Arthritis. *Bull Indian Rheum Assn* 1987;3(2):44-49
26. Sengupta DK, Gupta SK. Familial bilateral proximal femoral focal deficiency- report of a kindred. *J Bone Joint Surg [Am]* 1984;66-A :1470-1472

### **Review articles:**

1. Sengupta DK, Herkowitz HN. Pedicle screw-based posterior dynamic stabilization: literature review. *Adv Orthop.* 2012;2012:424268. doi: 10.1155/2012/424268. Epub 2012 Nov 28
2. Lotz JC, Haughton V, Boden SD, An HS, Kang JD, Masuda K, Freemont A, Berven S, Sengupta DK, Tanenbaum L, Maurer P, Ranganathan A, Alavi A, Marinelli NL. New treatments and imaging strategies in degenerative disease of the intervertebral disks. *Radiology.* 2012 Jul;264(1):6-19. Review.
3. Mirza S, Sengupta DK, Coe M. Operative Treatment for Degenerative Disk Disease and Chronic Back Pain: An Evidence-Based Review. *Seminars in spine surgery – eds. Wiesel SW and Boden SD.* 2010
4. Torretti J, Sengupta DK - Cervical Spine Trauma: Review. *Indian J Orthop.* 2007 Dec 41(4):255-267
5. Courville X, Torretti J, Sengupta DK. Dynamic stabilization: Principles and Current Clinical Practice, *Seminars in spine surgery –Axial Low Back pain* 2008 Jun 20(2):146-153
6. Sengupta DK, Calore B. Evaluation and initial management of cervical spine injuries. *Seminars in Spine Surgery-Cervical Spine Trauma* 2005 Jun17(2):67-72
7. Sengupta DK. Dynamic stabilization devices in the treatment of low back pain. Review. *Neurol India.* 2005 Dec; 53(4):466-74
8. Sengupta, DK. Herkowitz, HN. Degenerative spondylolisthesis: review of current trends and controversies. *Spine.* 2005 Mar15;30(6 Suppl):S71-81
9. Sengupta, DK. Neglected Spinal Injuries. *Clin Orthop Res.*2005 (431):92-103
10. Sengupta DK. Dynamic Stabilization Devices in the Treatment of Low Back pain. *Orthop Clin North Am.* 2004 Jan;35(1):43-56
11. Sengupta DK, Herkowitz HN. Lumbar spinal stenosis. Treatment strategies and indications for surgery. *Orthop Clin North Am.* 2003 Apr;34(2):281-95.
12. Mulholland RC, Sengupta DK. Rationale principles and experimental evaluation of the concept of Soft Stabilization. *Eur Spine J.* 2002 Oct;11 Suppl 2:S198-205.

### **Editorials**

1. Sengupta DK and Webb JK. Scoliosis - The current concepts. *Indian J Orthop* 2010 Jan;44(1):5-8
2. Sengupta DK and Garfin SR. Trauma -Biomechanical Force and Morphology – Interactive Educational Program for Spine. [www.spine-iep.com/iep](http://www.spine-iep.com/iep) 2009

**Comments / Discussion / Points of Views:**

1. Sengupta DK. Letters to Editor: Re: Schwab F, Ungar B, Blondel B, et al. Scoliosis research society—Schwab adult spinal deformity classification—a validation study. *Spine* 2012; 37:1077—82. *Spine* 2012 Sep 15;37(20):1790
2. Point of view: Cluster Analysis as a Method for Determining Size Ranges for Spinal Implants: Disc Lumbar Replacement Prosthesis Dimensions from Magnetic Resonance Images – in press
3. Point of view: Dynamic stabilization in addition to decompression for lumbar spinal stenosis with degenerative spondylolisthesis.- *Spine*. 2006 Feb 15;31(4):450
4. Point of View: Comparison of Smith-Petersen versus pedicle subtraction osteotomy for the correction of fixed sagittal imbalance. *Spine*. 2005 Sep 15;30(18):2030-7; discussion 2038.
5. Point of view: A prospective, randomized, multicenter Food and Drug Administration investigational device exemption study of lumbar total disc replacement with the CHARITE artificial disc versus lumbar fusion: part II: evaluation of radiographic outcomes and correlation of surgical technique accuracy with clinical outcomes. *Spine*. 2005 Jul 15;30(14):1576-83; discussion E388-90.
6. Point of view: A prospective, randomized, multicenter Food and Drug Administration investigational device exemptions study of lumbar total disc replacement with the CHARITE artificial disc versus lumbar fusion: part I: evaluation of clinical outcomes. *Spine*. 2005 Jul 15;30(14):1565-75; discussion E387-91.
7. Van Royen BJ. (Comment), Sengupta DK (Reply) A new technique for correction of an iatrogenic extension deformity in ankylosing spondylitis. *Spine* 2002 Feb 1;27(3):330

**Editing Book:**

1. Dynamic Reconstruction of the Spine 2nd edition –Thieme, New York, editors: Kim DH, Sengupta DK – (In press - expected date 2014).

**Book Chapters:**

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