

## **ACADEMIC CV**



**Name:**Prof.(Dr) Sachin Anil Borkar

Professor

Department of Neurosurgery& Gamma Knife,  
All India Institute of Medical Sciences&  
associated Jai Prakash Narayan Apex Trauma Center,  
Ansarinagar, New Delhi, India.-110029

### **Educational Qualification :**

**M.B.B.S., M.Ch. ( Neurosurgery ) , D.N.B.( Neurosurgery), F.A.C.S.(Neurosurgery),  
M.N.A.M.S.(Gold Medallist)**

- Faculty AO Foundation, South Asia
- Faculty AO Spine
- Faculty ATLS
  
- Executive Committee Member, Neurotrauma Society of India(2021-2024)
- Executive Committee Member, Neuro-Spinal Surgeons' Association of India(2022-25)
- Executive Committee Member, Indian Society of Pediatric Neurosurgery(2022-25)
- Executive Committee Member, Delhi Spine Society(2022-25)
- Core Committee Member Neurological Society of India-Young Neuroscientist Forum(NSI-YNF)
- Member, Association of Spine Surgeons of India( ASSI) Publications Committee, ASSI Website Committee

- Editor, Journal of Spinal Surgery(JOSS)(<https://www.jossworld.org>)
- Section Editor, Journal of Clinical Orthopedics & Trauma(JCOT)
- Editorial Board Member, Neurology India
- Ex-Treasurer, Indian Society of Peripheral Nerve Surgery(2018-2022)
- Ex-delegate, AO Spine Indian Subcontinent Council(2018-20)

### **Youtube channel : Operative Neurosurgery**

<https://www.youtube.com/channel/UCqjyJjvqxJwHmdCe0hRcT3Q>

### **Research Profile :**

<https://scholar.google.com/citations?hl=en&user=hbaQbswAAAAJ>

[https://www.researchgate.net/profile/Sachin\\_Borkar](https://www.researchgate.net/profile/Sachin_Borkar)

### **General achievements:**

Dr.Sachin Borkar is working as a faculty of Neurosurgery, AIIMS New delhi and associated JPN Apex Trauma center since 2012. Currently he is Professor of Neurosurgery. During his glorious academic career, he has received various awards including **Gold medals in MBBS, DNB(Neurosurgery) as well as Best M.Ch.resident award.** He is also a recipient of **Neurosurgery NEXTGEN award** in 2016 , **H.Alan Crockard International Award by AANS/CNS spine section** as well awards for papers presented in various national and international conferences. He has around **170** publications in various national and international journals including **26 chapters in books.**He also has served as **editor for two books** focussed on niche neurosurgery topics.He also has presented his work in various national and international fora as invited faculty(**150 presentations** till now).He has been a delegate of the AO Spine Indian Subcontinent Council (AOSIN) from 2018-2020 as well as a trained AO Spine faculty.In addition to his academic commitments, he is currently serving as **EC member of Neurotrauma Society of India(NTSI), Neuro-Spinal Surgeons' Association of India(NSSA), Indian Society of Pediatric Neurosurgery(INDSPN), Delhi Spine Society,** among others. He is also a**Core Committee Member of Neurological Society of India- Young Neuroscientist Forum(NSI-YNF),Editor of Journal of Spinal Surgery(JOSS)-the official journal of Neuro-Spinal Surgeons' Association(NSSA) ,Spine**

**section editor for Journal of Clinical Orthopedics & Trauma(JCOT)**as well as **editorial board member of Neurology India**, World Journal of Clinical Cases(WJCC),International Journal of Neurology & Neurosurgery,EC Pediatrics, Medical Case Reports and Images,etc and reviewer for many neuroscience journals like World Neurosurgery, JOCN, AJNS,etc.

**Contribution to patient care :**

Dr Sachin Borkar is well versed in all aspects of Neurosurgery.His area of interest include complex spine surgery(including CVJ)and skull base surgery. He is also trained in complex spinal deformity surgery.In addition, he has special expertise in minimally invasive brain and spine surgery, eloquent region gliomas and complex spinal dysraphism(lipomeningocele). His research interest include vestibular schwannoma, cervical laminoplasty, machine learning and its application in Neurosciences,etc

**Contribution to Neurosciences :**

As a faculty at one of the premier institutes of the country, Dr.Sachin Borkar has been actively involved in neurosurgical care as well as teaching and training. He has also contributed to neurotrauma capacity building in far-flung areas of Ladakh, where neurotrauma care is rudimentary. He is actively involved in various educational activities conducted by National Board of Examination(NBE), Neurological Society of India(NSI), Association of Spine Surgeons of India(ASSI),Neuro- Spinal Surgeons Association of India (NSSA), Minimally Invasive Spine Surgery Association of Bharat(MISSAB) , AO spine , etc.

**Detailed CV**

**Name:** Dr Sachin Anil Borkar

**Postal Address :** Dr Sachin A Borkar,

Professor

Department of Neurosurgery,

Room no.720, CN Center,

All India Institute of Medical Sciences,

Ansarinagar, New Delhi, India.

Pin.-110029.

E-mail : [sachin.aiims@gmail.com](mailto:sachin.aiims@gmail.com)

**Educational Qualification :**

M.B.B.S., M.Ch. ( Neurosurgery ) , D.N.B.( Neurosurgery), M.N.A.M.S.,F.A.C.S.

Name of the examination	University/Institute/ College	Month & Year of passing	No.of attempts	Percentage of marks	Class/Division/Grade
S.S.C.	Maharashtra State Board of Secondary & Higher Secondary Education, Pune. ( Nagpur Divisional Board)	June, 1997	First	88.26%	Distinction, 15 <sup>th</sup> in order of merit
H.S.C.(10+2)	Maharashtra State Board of Secondary & Higher Secondary Education, Pune. ( Nagpur Divisional Board)	June, 1999	First	95.5%	Distinction, 1 <sup>st</sup> in order of merit in Science stream
M.B.B.S.	Government Medical College, Nagpur , Maharashtra. ( Maharashtra University of Health Sciences, Nashik)	December, 2003	First	74.88%	Gold Medal
M.Ch. Neurosurgery (6 years course)	All India Institute of Medical Sciences(AIIMS), New delhi, India.	December, 2010	First	-	Best Outgoing M.Ch.Resident
Diplomate of National Board(D.N.B. ) Neurosurgery	National Board of examinations(NBE), New delhi, India	May, 2014	First		Gold Medal

**Major Academic Achievements-**

**S.S.C.( 1997)**

15<sup>th</sup> in order of Merit in Nagpur Divisional Board, Nagpur, Maharashtra, India.

**H.S.C.(1999)**

1<sup>st</sup> in order of Merit in Science stream in in Nagpur Divisional Board, Nagpur, Maharashtra, India.

**M.B.B.S.( 1999-2003)**

From Government Medical College, Nagpur, Maharashtra India; under Maharashtra University of Health Sciences (M.U.H.S), Nashik.

Awarded **GOLD MEDAL** for outstanding performance in Final M.B.B.S. by M.U.H.S., Nashik, Maharashtra, India.

**Internship (2004)**

From Government Medical College, Nagpur, Maharashtra India; under Maharashtra University of Health Sciences (M.U.H.S), Nashik.

**M.Ch.( Neurosurgery, Integrated 6-years course 2006 -2011)**

From All India Institute of Medical Sciences, New Delhi, India; the premier Medical Institute of India.

**Positions held :**

- **Assistant Professor, Department of Neurosurgery & Gamma Knife**, All India Institute of Medical Sciences, New Delhi, India- since 7<sup>th</sup> March, 2012 to 30<sup>th</sup> June,2015.
- **Associate Professor, Department of Neurosurgery & Gamma Knife**, All India Institute of Medical Sciences, New Delhi, India- since 1<sup>st</sup> July,2015 till 30<sup>th</sup> June,2018
- **Additional Professor, Department of Neurosurgery & Gamma Knife**, All India Institute of Medical Sciences, New Delhi, India- since 1<sup>st</sup> July,2018 till 30<sup>th</sup> June,2022.
- **Professor, Department of Neurosurgery & Gamma Knife**, All India Institute of Medical Sciences, New Delhi, India- since 1st July,2022 till date.

**Fellowships /Advanced training :**

- **AANS/CNS Spine section H. Alan Crockard International Spine fellowship in Minimally Invasive & Complex Spine Surgery** , University of California San Francisco(UCSF) Medical Center, San Francisco, CA, USA; June-July 2016

- **International Group for Advancement of Spinal Sciences(IGASS) Spine Fellowship-** under **Prof. Khai S. Lam**, Spine Surgeon at Guy's & St. Thomas' Hospital, NHS Foundation Trust, 2015
- **AO Spine Asia Pacific Spine fellowship** –under **Prof. Shankar Acharya** at Sir Gangaram Hospital , New Delhi, India;2016
- **Clinical observership/ Short-term fellowship – Neuro-oncology** under **Prof. Mitchel S Berger**, Professor & Head, Department of Neurological surgery, University of California San Francisco( UCSF) Medical Center, San Francisco, CA, USA; September 2009.

### **Publications & Presentations -**

**Publications** – Total 170(as on Sept,2022)Chapters in book-26) -details attached below

**Presentations** – have done poster and platform presentations at various National & International conferences.

### **Awards –**

- 1) **Best paper award**, World Federation of Neurosurgical Societies(WFNS) **Symposium, Kualalumpur, Malaysia,2018.**
- 2) Awarded **Fellowship of American College of Surgeons(FACS)** in 2017
- 3) **Neurosurgery NEXT GEN award** (1<sup>st</sup> prize) during International Neurosurgery Update,4-5<sup>th</sup> June, 2016; Mumbai, India
- 4) Awarded **AO Spine India National Fellowship** in Spine for the year 2016.
- 5) **AANS/CNS Spine section's Crockard International Fellowship ( Spine & Peripheral nerve)** for the year 2015 .
- 6) **Gold medal in DNB Neurosurgery**, 2013 batch
- 7) Awarded Membership of National Academy of Medical Sciences(MNAMS),2014
- 8) **Best Neurosurgery Resident Award** , 14<sup>th</sup> AIIMS Annual Microneurosurgery Workshop, Feb.2012, AIIMS, New delhi
- 9) Selected as a distinguished achiever in the field of Medical Sciences and included in 2010 edition of **Marquis Who's Who in the World**
- 10) **Neurosurgery Best Paper Award** , Delhi Neurological Association Annual Meeting ,23-24 January, 2016; New delhi, India.

- 11) **Resident Paper Award at Neuropedicon-2008**, 19<sup>th</sup> Annual Meeting of Indian Society of Pediatric Neurosurgery, Coimbatore, India.
- 12) **Herbert Krause Neuro-oncology Best Paper Award ; Neurocon-2007**, 56<sup>th</sup> Annual Meeting of Neurological Society of India, Agra, India( Co-author).
- 13) **Best Paper Award(1<sup>st</sup> Prize) UK-UP Neurocon 2016**, 22<sup>nd</sup> Annual Conference of Neuroscience Society, 19-20<sup>th</sup> March,2016, Nainital,UK(Co-author)
- 14) **Best Paper Award(2<sup>nd</sup> Prize) UK-UP Neurocon 2016**, 22<sup>nd</sup> Annual Conference of Neuroscience Society, 19-20<sup>th</sup> March,2016, Nainital,UK(Co-author)
- 15) **Indian Society of Pediatric Neurosurgery (INDSPN) Traveling Fellowship** for the year 2008.
- 16) **Codman Depuy Travelling Fellowship to attend XIV WFNS World Congress** held in Boston, MA, USA in 2009.

### **Membership:**

- AO Spine Member Plus
- National Academy of Medical Sciences(NAMS)
- Neurological Society of India( NSI)
- Skull Base Surgery Society of India
- Indian society of Cerebrovascular Surgery
- Neurotrauma Society of India(NTSI)
- Association of Spine Surgeons of India(ASSI)
- Neuro Spinal Surgeons Association
- Indian Society of Peripheral Nerve Surgery (ISPNS)
- Indian Society of Trauma & Acute Care(ISTAC)
- Delhi Neurological Association(DNA)
- Delhi Spine Society
- North American Spine Society(NASS)
- American Association of Neurological Surgeons( AANS)
- Indo-American Spine Alliance(IASA)

### **Professional Association:**

- Faculty AO Spine
- Faculty AO Foundation, South Asia

- Faculty Advanced Trauma Life Support(ATLS)
- EC Member , Neurotrauma Society of India(NTSI)(2021-24)
- EC Member, Delhi Spine Society(DSS)(2022-24)
- Member,Website Committee of Association of Spine Surgeons of India(ASSI)
- Member ,Publications Committee of Association of Spine Surgeons of India(ASSI)
- Ex-Delegate member of AO Spine Indian Subcontinent Council(2018-21)
- Ex-Treasurer of Indian Society of Peripheral Nerve Surgery( ISPNS)(2018-22)

### **Editorial Board activities:**

- Editor, Journal of Spine Surgery(JOSS),the official journal of Neuro-Spinal Surgeons' Association of India(NSSA)
- Section Editor, Journal of Clinical Orthopedics & Trauma
- Editorial Board member of Neurology India
- Editorial Board member of International Journal of Neurology & Neurosurgery(IJNNS)
- Editorial Board member of Medical Case Reports and Images
- Editorial Board member of EC Pediatrics
- Ex - Editorial Board member of World Journal of Clinical Cases(WJCC)

### **Reviewer :**

- World Neurosurgery
- Neurospine
- Asian J Neurosurgery
- Neurology India
- J Clinical Neurosciences(JOCN)
- BMJ Case Reports
- Indian Journal of Medical Microbiology
- Indian Journal of Neurosurgery
- Indian Spine Journal
- Indian Journal of Orthopedics
- J Clinical Orthopedics & Trauma
- BMJ Pediatrics



- Brain & Spine
- Journal of Spine Surgery
- Journal of Clinical Orthopedics & Trauma

## **Research Projects:**

### **Completed:**

- 1) Diffusion Tensor Imaging(DTI) tractography for prediction of facial nerve position in vestibular schwannoma and its intra-operative correlation. (Intramural, AIIMS funded)
- 2) Cervical rotation before and after hinge-door cervical laminoplasty for cervical spondylotic myelopathy and its relation to post-operative axial neck symptoms( Extramural, AO Spine funded)

### **Ongoing :**

- 1) Global sagittal balance in Degenerative Spine diseases
- 2) To study the effect of a locally administered multifunctional cocktail on postoperative pain and blood loss in elective lumbar spinal surgeries: A prospective double blinded randomized control trial.
- 3) Development of a Machine Learning algorithm for prediction of severity and need for surgery in Cervical Spondylotic Myelopathy. AIIMS- IIT Delhi research Collaboration
- 4) Histopathological and Immunohistochemistry Analysis Of Posterior Atlanto Occipital Membrane In Patients With Congenital/Developmental Craniovertebral Anomalies. ASSI research grant

## PUBLICATIONS

### Publications (2012-2022)

#### Overall-

- **Books as Editor : 3**
- **Chapters in Books : 26**
- **Spine related publications: 61**
- **Brain related publications : 80**
- **Published abstracts: 3**

---

<b>Citations</b>	<b>1258</b>
<b>h-index</b>	<b>20</b>
<b>i10-index</b>	<b>38</b>

#### SPINE

- 1) **Borkar SA**, Sastri SB, Mohanty C, Bansal T. Therapeutic Spinal Injections and Percutaneous Procedures – An Overview .Current Practices In Neurosciences, March 2022.
- 2) Kamra D, Bansal T, Anand P, **Borkar SA**. “Garland” of neurofibromas in neurofibromatosis type 1. J Spinal Surg 2022;9:65-6.
- 3) Jeon H, Kim HC, Kim TW, An SB, Shin DA, Yi S, Kim KN, Yoon DH, **Borkar SA**, Son DW, Ha Y. Prediction of angular kyphosis after cervical laminoplasty using radiologic measurements. J Clin Neurosci. 2021 Mar;85:13-19.
- 4) CK Thounaojam, **SA Borkar**, R Sharma, M Phalak, R Sharma, SS Kale. A prospective comparative study between day care spine surgery and conventional spine surgery. Indian Spine Journal 4 (1), 99
- 5) R Sreenivasan, A Mohite, K Garg, **SA Borkar**, SS Kale. Delayed Epidural Hematoma Following Cervical Laminoplasty. Journal of Spinal Surgery 2021;8 (4): 35

- 6) R Sharma, **S Borkar**, A Kumar, P Narwal, D Gupta, D Agrawal, S Kale. Post-Traumatic Cervicothoracic Junction Fracture-Dislocations: Technical Considerations and Outcome Analysis. *Journal of Spinal Surgery* 8 (4), 15-18.
- 7) S Kandregula, B Guthikonda, PS Chandra, S Yousefi, A Borhani-Haghighi, ...**SA Borkar**..... Microsurgery of Spinal Dural Arteriovenous fistula. *Neurology India* 70 (1), 1-2
- 8) Murlidharan Bhavaninilayam S, **Borkar SA**, Garg K, Phalak M, Kale SS. Letter to the Editor. Randomized trial for degenerative cervical myelopathy. *J Neurosurg Spine*. 2021 Mar 19:1-2
- 9) **Borkar SA**, Sharma R. Biomechanical Factors Influencing Fixation Angle in Occipitocervical Fusion. *Neurol India*. 2021 May-Jun;69(3):780-781.
- 10) Verma S, Singh PK, Agrawal M, Sawarkar D, **Borkar SA**, Kumar A, Garg K, Agrawal D, Gupta D, Satyarthee G, Chandra SP, Kale SS. Use of Intraoperative Imaging to Preserve C1-C2 Mobility in Complex Atlas-Hangman Fractures. *Neurol India*. 2022 Jan-Feb;70(1):209-214.
- 11) Sharma R, **Borkar S**, Katiyar V, Goda R, Phalak M, Joseph L, Suri A, Chandra PS, Kale SS. Interplay of Dynamic Extension Reserve and T1 Slope in Determining the Loss of Cervical Lordosis Following Laminoplasty: A Novel Classification System. *World Neurosurg*. 2020 ;136:e33-e40.
- 12) Jeon H, Kim HC, Kim TW, An SB, Shin DA, Yi S, Kim KN, Yoon DH, **Borkar SA**, Son DW, Ha Y. Prediction of angular kyphosis after cervical laminoplasty using radiologic measurements. *J Clin Neurosci*. 2021 ;85:13-19.
- 13) Murlidharan Bhavaninilayam S, **Borkar SA**, Garg K, Phalak M, Kale SS. Letter to the Editor. Randomized trial for degenerative cervical myelopathy. *J Neurosurg Spine*. 2021;19:1-2.
- 14) Agrawal M, **Borkar SA**. Multiple Bilateral Spinal Neurofibromas in an Adult with Nonfamilial NF-1. *Neurol India*. 2020;68:236-237.
- 15) Sreenivasan R, Sharma R, **Borkar SA**, Arumulla S, Garg K, Chandra SP, Kale SS, Mahapatra AK. Cervical Split Cord Malformations: A Systematic Review. *Neurol India*. 2020 ;68:994-1002.
- 16) Alam I, Sharma R, **Borkar SA**, Goda R, Katiyar V, Kale SS. Factors predicting loss of cervical lordosis following cervical laminoplasty: A critical review. *J Craniovertebr Junction Spine*. 2020;11:163-168.

- 17) Agrawal M, Gour SSK, **Borkar SA**. Unusual Calcification in Intramedullary Epidermoid Cyst. *World Neurosurg*. 2019;126:99-100.
- 18) Agrawal M, **Borkar SA**, Mahapatra AK. Somsak's procedure: A review. *J Peripheral Nerve Surgery* 2020;01:1-5
- 19) Kale SS, **Borkar SA**. APCSS-CVJ Special Topic Series. *Neurospine*. 2019;16:184-185.
- 20) Agarwal N, Chandrappa H, Varshney G, Borkar SA. TO THE EDITOR. Comment on Functional Outcome of Elderly Patients Treated for Odontoid Fracture: A Multicenter Study. *Spine (Phila Pa 1976)*. 2019;44:E927.
- 21) Agrawal M, **Borkar SA**. Multiple Bilateral Spinal Neurofibromas in an Adult with Nonfamilial NF-1. *Neurol India*. 2020;68:236-237.
- 22) **Borkar SA**, Sharma R, Mansoori N, Sinha S, Kale SS. Spinopelvic parameters in patients with lumbar degenerative disc disease, spondylolisthesis, and failed back syndrome: Comparison vis-à-vis normal asymptomatic population and treatment implications. *J Craniovertebr Junction Spine*. 2019;10:167-171.
- 23) Zileli M, **Borkar SA**, Sinha S, Reinas R, Alves ÓL, Kim SH, Pawar S, Murali B, Parthiban J. Cervical Spondylotic Myelopathy: Natural Course and the Value of Diagnostic Techniques -WFNS Spine Committee Recommendations. *Neurospine*. 2019;16:386-402.
- 24) Sharma R, **Borkar SA**, Phalak M, Joseph SL, Kale SS. Cervical alignment following laminoplasty for cervical spondylotic myelopathy. *Surg Neurol Int*. 2019;10:156.
- 25) Sharma R, **Borkar SA**, Goda R, Kale SS. Which factors predict the loss of cervical lordosis following cervical laminoplasty? A review of various indices and their clinical implications. *Surg Neurol Int*. 2019;10:147.
- 26) **Borkar SA**, Sreenivasan R, Sharma R, Sinha S, Joseph SL, Garg A, Kale SS. Cervical rotation before and after hinge-door cervical laminoplasty for cervical spondylotic myelopathy. *J Craniovertebr Junction Spine*. 2019;10:114-118.
- 27) Gour SSK, Agrawal M, **Borkar SA**. Letter to the Editor. Laminotomy outcomes in pediatric patients. *J Neurosurg Pediatr*. 2018; 17:1-3.
- 28) Agarwal A, Raheja A, **Borkar SA**, Mahapatra AK. An Unusual Case of Split Cord Malformation with Simultaneous Ventral and Dorsal Bony Spur at a Single Site: A Technical Challenge. *J Pediatr Neurosci*. 2018;13:214-217.

- 29) Sreenivasan SA, Phalak M, **Borkar SA**, Kale SS. Letter to the Editor. Percutaneous transforaminal endoscopic discectomy versus microendoscopic discectomy. *J Neurosurg Spine*. 2018;29:481-482.
- 30) Bansal S, **Borkar SA**, Mahapatra AK.  
A common case with an unusual association: Chiari I malformation with holocord syrinx. *Asian J Neurosurg*. 2017 Apr-Jun;12(2):241-243.
- 31) Bansal S, **Borkar SA**, Mahapatra AK.  
Hydrocephalus associated with spinal intramedullary pilocytic astrocytoma. *Asian J Neurosurg*. 2017 Apr-Jun;12(2):217-219.
- 32) Agrawal M, **Borkar SA**, Mahapatra AK. Letter to the Editor Regarding "Efficacy of Early Surgery for Neurological Improvement in Spinal Cord Injury without Radiographic Evidence of Trauma in the Elderly. *World Neurosurg*. 2017 ;108:962.
- 33) Agrawal M, **Borkar SA**, Phalak M, Singla R, Mahapatra AK. [Does Spinal Cord Line Influence Choice of Surgical Approach in Multilevel Cervical Spondylotic Myelopathy?](#) *World Neurosurg*. 2017 Sep;105:1007.
- 34) Satyarthee GD, Garg K, **Borkar SA**. [Paraganglioma of the Filum Terminale: An Extremely Uncommon Neuroendocrine Neoplasm Located in Spine.](#) *J Neurosci Rural Pract*. 2017 Jul-Sep;8(3):490-493.
- 35) Garg K, **Borkar SA**, Kale SS, Sharma BS. Spinal arachnoid cysts – Our experience and review of literature. *Br J Neurosurg*. 2017;31(2):172-178.
- 36) Singh SK, Mankotia DS, **Borkar SA**, Gupta UD. [Multiple mirror image cervical neurofibromas in neurofibromatosis type 1.](#) *Neurol India*. 2017;65(2):428-429
- 37) Mankotia DS, Singh SK, **Borkar SA** .Spontaneous regression of large herniated lumbar disc with remission of symptoms - case report and literature review. *Indian J of Neurol Neurosurg* 2016;8:53-56.
- 38) Nandish HS, **Borkar SA**, Kale SS, Sharma BS, Mahapatra AK. [Pediatric posterior cerebral artery stroke as a presentation of atlantoaxial dislocation.](#) *J Pediatr Neurosci*. 2015;10:149-52.
- 39) Raheja A, **Borkar SA**, Kumar R, Suri V, Sharma BS. [Metachronous spinal metastases from supratentorial anaplastic astrocytoma.](#) *Asian J Neurosurg*. 2015;10:60.
- 40) Raheja A, **Borkar SA**, Nalwa A, Suri V. [Primary spinal extraosseous cervical chondroma in an adult.](#) *Neurol India*. 2015;63:114-6.

- 41) **Borkar SA**, Mahapatra AK. Split cord malformations : A two years experience at AIIMS. **Asian J Neurosurg.** 2012;7(2):56-60.
- 42) **Borkar SA**, Sarkari A, Mahapatra AK. Craniosynostosis associated with neural tube defect : Is there a causal association?. **Pediatr Neurosurg.** 2011;47:337-41.
- 43) Sharma MS, **Borkar SA**, Kumar A, Sharma MC, Sharma BS, Mahapatra AK. Thoracic extraosseous, epidural, cavernous hemangioma: Case report and review of literature. **J Neurosci Rural Pract.** 2013 ;4:309-12.
- 44) Prasad GL, **Borkar SA**, Satyarthee GD, Mahapatra AK. Split cord malformation with dorsally located bony spur: A clinical series of four patients with review of literature. **J Pediatr Neurosci.** 2012;7:167-70.
- 45) **Borkar SA**, Prasad GL, Satyarthee GD, Mahapatra AK. Spontaneous spinal extradural hematoma in a patient with Hemophilia B. **J Pediatr Neurosci.** 2011 ;6:131-3.
- 46) Bansal S, Suri A, **Borkar SA**, Kale SS, Singh M, Mahapatra AK. Management of intramedullary tumors in children: analysis of 82 operated cases. **Childs Nerv Syst.** 2012;28:2063-9.
- 47) Prasad GL, **Borkar SA**, Subbarao KC, Sharma MC, Mahapatra AK. Neurenteric cyst of the ventral cervicomedullary region. **J Pediatr Neurosci.** 2012 ;7:188-90.
- 48) Prasad GL, **Borkar SA**, Subbarao KC, Suri V, Mahapatra AK. Primary spinal cord glioblastoma multiforme: a report of two cases. **Neurol India.** 2012;60:333-5.
- 49) **Borkar S**, Bansal A, Mahapatra A. Congenital dermoid inclusion cyst of anterior fontanelle associated with spinal dysraphism: a case report. **Childs Nerv Syst.** 2011;27:2017-9.
- 50) **Borkar SA**, Satyarthee GD, Sharma BS. Conus ependymoma with holocord syringomyelia. **Neurol India** 2009;57:353-4.
- 51) **Borkar SA**, Kasliwal MK, Suri A, Sharma BS. Cervical Hemangioblastoma with holocord syrinx. **Surg Neurol.** 2009;72:437-8.
- 52) Bansal S, **Borkar SA**, Mahapatra AK. A common disease with uncommon presentation. Chiari I malformation with holocord syrinx. **Asian J Neurosurg.** 2017;12:241-243
- 53) Bansal S, **Borkar SA**, Mahapatra AK. Hydrocephalus associated with spinal intramedullary pilocytic astrocytoma. **Asian J Neurosurg.** 2017 Apr-Jun;12(2):217-219.

- 54) Bora S, **Borkar SA** .Mediastinal hematoma following Internal Jugular Venous cannulation : A rare complication. **Indian J of Neurol Neurosurg** 2016;8:57-60.
- 55) Sharma R, Katiyar V, **Borkar SA**.Interplay of Radiological Parameters and Functional Outcomes following Cervical Laminoplasty.Neurospine( Under review)
- 56) Bansal T, **Borkar SA**.Primary Intradural Extramedullary Spinal Burkitt's lymphoma mimicking a nerve sheath tumor: A Case Report.Spinal Cord Series & Cases( Under review)
- 57) Bansal T, **Borkar SA** .Spinal hemangioblastoma causing a holocord syrinx: A report of 2 cases and review of literature.Indian Spine Journal(Under review)
- 58) Gurjar H, Gaonkar V,Bansal T, **Borkar SA**.Multiple sporadic spinal hemangioblastoma at the filum terminale and cervicodorsal junction: A case report and review of literature .Indian Spine Journal(Under review)

### **BRAIN**

- 59) Goda R, Sharma R, **Borkar SA**, Katiyar V, Narwal P, Ganeshkumar A, Mohapatra S, Suri A, Kapil A, Chandra PS, Kale SS. Frailty and Neutrophil Lymphocyte Ratio as Predictors of Mortality in Patients with Catheter-Associated Urinary Tract Infections or Central Line-Associated Bloodstream Infections in the Neurosurgical Intensive Care Unit: Insights from a Retrospective Study in a Developing Country. **World Neurosurg.** 2022 Mar 3:S1878-8750(22)00262-5.
- 60) Mishra N, Rath GP, Bithal PK, Chaturvedi A, Chandra PS, **Borkar SA**. Effect of Goal-Directed Intraoperative Fluid Therapy on Duration of Hospital Stay and Postoperative Complications in Patients Undergoing Excision of Large Supratentorial Tumors. **Neurol India.** 2022 Jan-Feb;70(1):108-114.
- 61) Tandon V,Raheja A, Mishra S, Garg K, Dash C, **Borkar SA**, Wellington J, Chaurasia B, Fontanella MM, Suri A, Chandra PS, Kale SS.Trends in Neurosurgical Teleconsultation Services Across the Globe During COVID-19 Pandemic. **World Neurosurg.** 2021;20:S1878-8750(21)00440-X.
- 62) Raheja A, Agarwal N, Mohapatra S, Tandon V, **Borkar SA**, Chandra PS, Kale SS, Suri A.Preparedness and guidelines for neurosurgery in the COVID-19 era: Indian perspective from a tertiary care referral hospital. **Neurosurg Focus.** 2020 ;49:E3.

- 63) Deora H, Mishra S, Tripathi M, Garg K, Tandon V, **Borkar S**, Varshney N, Raut R, Chaurasia B, Chandra PS, Kale SS. Adapting Neurosurgery Practice During the COVID-19 Pandemic in the Indian Subcontinent. *World Neurosurg.* 2020 ;142:e396-e406
- 64) Rajesh Y, Biswas A, Banik P, Pal I, Das S, **Borkar SA**, Sardana H, Saha A, Das SK, Emdad L, Fisher PB, Mandal M. Transcriptional regulation of HSPB1 by Friend leukemia integration-1 factor modulates radiation and temozolomide resistance in glioblastoma. *Oncotarget.* 2020;11:1097-1108.
- 65) Mohapatra S, Kapil A, Suri A, Pandia MP, Bhatia R, **Borkar S**, et al. Impact of Continuous Education and Training in Reduction of Central Line-associated Bloodstream Infection in Neurointensive Care Unit. *Indian J Crit Care Med.* 2020;24:414-417.
- 66) Bora SK, Suri A, Khadgawat R, Tandon N, Suri V, Chand Sharma M, Satyarthee G, Singh M, Tandon V, Agarwal D, Kumar R, Chandra PS, Gurjar HK, **Borkar S**, Gupta DK, Singh PK, Kale SS. Management of Cushing's Disease: Changing Trend from Microscopic to Endoscopic Surgery. *World Neurosurg.* 2020 Feb;134:e46-e54.
- 67) Rajesh Y, Biswas A, Banik P, Pal I, Das S, **Borkar SA**, Sardana H, Saha A, Das SK, Emdad L, Fisher PB, Mandal M. Transcriptional regulation of HSPB1 by Friend leukemia integration-1 factor modulates radiation and temozolomide resistance in glioblastoma. *Oncotarget.* 2020;11:1097-1108.
- 68) Sharma R, Goda R, **Borkar SA**, Katiyar V, Agarwal S, Kumar A, Mohapatra S, Kapil A, Suri A, Kale SS. Outcome following postneurosurgical Acinetobacter meningitis: an institutional experience of 72 cases. *Neurosurg Focus.* 2019;47:E8
- 69) Rafiq R, Sharma R, **Borkar SA**. Giant Sporadic Unilateral Vestibular Schwannoma in Child: Can It Get Bigger Than This? *World Neurosurg.* 2019 ;130:378-379.
- 70) Dadhich H, Sharma R, **Borkar SA**, Dash A, Mahajan S, Sharma MC. Solitary Extra-axial Intracranial Primary Meningeal Pleomorphic Xanthoastrocytoma: An Extremely Rare Case. *World Neurosurg.* 2019;130:386-390.
- 71) Agrawal M, **Borkar SA**, Kale SS. Phenytoin Toxicity Manifesting as Acute Psychosis: An Uncommon Side Effect of a Common Drug. *Asian J Neurosurg.* 2019;14:532-534.



- 72) Sharma R, Kumar A, **Borkar SA**. Mature Teratoma of Petrous Temporal Bone in an Infant: A Rare Clinical Entity. *World Neurosurg.* 2019 ;128:209-210.
- 73) Samala R, **Borkar SA**, Sharma R, Garg A, Suri A, Gupta D, Kale SS. Effectiveness of preoperative facial nerve diffusion tensor imaging tractography for preservation of facial nerve function in surgery for large vestibular schwannomas: Results of a prospective randomized study. *Neurol India.* 2019;67:149-154.
- 74) **Borkar SA**, Singh M, Kale SS , Suri A, Chandra PS, Kumar R, Sharma BS, Gaikwad S, Mahapatra AK. Spinal Cerebrospinal fluid drainage for prevention of vasospasm in Aneurysmal Subarachnoid Haemorrhage : A Prospective Randomized controlled study. *Asian J Neurosurg.* 2018;13:238-246.
- 75) Verma SK, **Borkar SA**, Singh PK, Tandon V, Gurjar HK, Sinha S, Satyarthee GD, Gupta D, Agrawal D, Sharma BS. Traumatic Posterior Fossa Extradural Hematoma – Experience At Level I Trauma Center . *Asian J Neurosurg.* 2018;13:227-232.
- 76) Sharma R, Phalak M, Katiyar V, **Borkar S**, Kale SS, Mahapatra AK. Microvascular decompression versus stereotactic radiosurgery as primary treatment modality for trigeminal neuralgia: A systematic review and meta-analysis of prospective comparative trials. *Neurol India.* 2018 ;66:688-694.
- 77) Mankotia DS, Singh SK, Borkar SA, Sharma BS, Rajeshwari M, Sharma MC.. Primary giant Sphenotemporal intradiploic meningioma *Asian J Neurosurg.* 2018;13:157-160.
- 78) Agrawal M, Jain N, **Borkar SA**. Unusual Clinical Presentation and Magnetic Resonance Imaging Findings in Supratentorial Epidermoid Cyst. *World Neurosurg.* 2018;117:229-230.
- 79) Agrawal M, **Borkar SA**, Khanna G, Sharma MC, Kale SS. Pigmented Ganglioglioma of the Cerebellum: Case Report and Review. *World Neurosurg.* 2018;116:18-24.
- 80) Dash C, Singh PK, Pasricha R, **Borkar SA**, Kumar A, Kaur K, Suri V, Sharma BS. Intraventricular pilocytic astrocytomas: Radiology, surgical management and outcome in a series of 8 patients. *Neuro Oncol.* 2018 Jan; 20(Suppl 1): i4.
- 81) Agrawal M, **Borkar SA**, Singla R, Mahapatra AK. Letter to the Editor Regarding "Burr-Hole Drainage for Chronic Subdural Hematoma under Low-Dose Acetylsalicylic Acid: a Comparative Risk Analysis Study". *World Neurosurg.* 2017 Nov;107:1037.

- 82) Sharma R, **Borkar SA**, Phalak M, Sinha S, Mahapatra AK.  
Letter to the Editor. Postcranioplasty changes in cerebral blood perfusion and its impact on neurological and clinical outcomes. *J Neurosurg.* 2018 Jan;128(1):323-324.
- 83) Sharma R, **Borkar SA**, Phalak M, Sinha S, Mahapatra AK. Letter to the Editor.  
Postcranioplasty changes in cerebral blood perfusion and its impact on neurological and clinical outcomes. *J Neurosurg.* 2018;128:323-324.
- 84) Bansal S, **Borkar SA**, Mahapatra AK.  
Association of brain abscess with a mycotic aneurysm of the contralateral internal carotid artery in a patient of cyanotic heart disease. *Asian J Neurosurg.* 2017 Apr-Jun;12(2):220-223.
- 85) **Borkar SA**, Verma N, Leve Joseph S, Kale SS, Sharma BS. MR imaging of pediatric cerebral hydatidosis. *J Pediatr Neurosci.* 2017;12:298-299.
- 86) Rajesh Y, Pal I, Banik P, Chakraborty S, **Borkar SA**, Dey G, Mukherjee A, Mandal M. Insights into molecular therapy of glioma: current challenges and next generation blueprint. *Acta Pharmacol Sin.* 2017 May;38(5):591-613.
- 87) Singh SK, Mankotia DS, **Borkar SA**, Gupta UD.  
Multiple mirror image cervical neurofibromas in neurofibromatosis type 1. *Neurol India.* 2017 Mar-Apr;65(2):428-429
- 88) Agrawal M, **Borkar SA**, Singla R, Mahapatra AK. Letter to the Editor Regarding "Burr-Hole Drainage for Chronic Subdural Hematoma under Low-Dose Acetylsalicylic Acid: a Comparative Risk Analysis Study. *World Neurosurg.* 2017;107:1037.
- 89) Mankotia DS, **Borkar SA**, Kaur K, Suri V, Sharma BS. [A rare case of giant solitary calvarial plasmacytoma: Can it grow bigger than this?](#) *Neurol India.* 2017;65(2):420-422.
- 90) **Borkar SA**, Garg A, Mankotia D, Suri A, Kumar R, Kale SS, Sharma BS. Prediction of facial nerve position in Vestibular Schwannoma using Diffusion Tensor Imaging tractography and its intra-operative correlation. *Neurol India.* 2016;64:965-70
- 91) Pasricha R, **Borkar SA**, Garg K, Leve Joseph S, Sharma BS. Multiple bilateral cranial nerve schwannomas in a patient with NF 2. *Asian J Neurosurg.* 2016;11:167-8.

- 92) Raheja A, Bansal S, **Borkar SA**, Suri A, Mahapatra AK. Spontaneous acute subdural hemorrhage with rupture of intracranial aneurysm: A series of two cases with review of literature. **Indian J Neurosurg** 2016; 5:16-21.
- 93) Mankotia DS, Sardana H, Sinha S, Sharma BS, Suri A, **Borkar SA**, Satyarthee GD, Chandra P S. Pediatric interhemispheric arachnoid cyst: An institutional experience. **J Pediatr Neurosci** 2016;11:29-34.
- 94) Bansal S, Borkar SA, Suri A, Sharma MC, Mahapatra AK. Medullomyoblastoma: A rare case in an unusual location in an atypical age group. **Asian J Neurosurg** 2016;11:315-6.
- 95) Sarkari A, **Borkar SA**, Mahapatra AK. Anal extrusion of migrated ventriculo-peritoneal shunt catheter : An unusual complication. **Asian J Neurosurg**. 2016;11:459.
- 96) Verma SK, Satyarthee G, **Borkar SA**, Singh M, Sharma BS. [Orbital roof intradiploic meningioma in a 16-year-old girl.](#) **J Pediatr Neurosci**. 2015;10:51-4.
- 97) Verma SK, **Borkar SA**, Sharma BS. Mirror image epidural haematoma. **Indian J Neurotrauma** 2015;12:164-66.
- 98) Sinha S, Raheja A, Garg M, Moorthy S, Agrawal D, Gupta DK, Satyarthee GD, Singh PK, **Borkar SA**, Gurjar H, Tandon V, Pandey RM, Sharma BS. [Decompressive craniectomy in traumatic brain injury: A single-center, multivariate analysis of 1,236 patients at a tertiary care hospital in India.](#) **Neurol India** 2015;63:175-83.
- 99) Prasad GL, Gupta DK, Mahapatra AK, **Borkar SA**, Sharma BS. [Surgical results of growing skull fractures in children: a single centre study of 43 cases.](#) **Childs Nerv Syst**. 2015 ;31:269-77.
- 100) Sinha S, Raheja A, Garg M, Moorthy S, Agrawal D, Gupta DK, Satyarthee GD, Singh PK, **Borkar SA**, Gurjar H, Tandon V, Pandey RM, Sharma BS. [Decompressive craniectomy in traumatic brain injury: A single-center, multivariate analysis of 1,236 patients at a tertiary care hospital in India.](#) **Neurol India**. 2015;63:175-83.
- 101) Verma SK, Satyarthee G, **Borkar SA**, Singh M, Sharma BS. [Orbital roof intradiploic meningioma in a 16-year-old girl.](#) **J Pediatr Neurosci**. 2015;10:51-4.
- 102) Nath HD, Mahapatra AK, **Borkar SA**. [A giant occipital encephalocele with spontaneous hemorrhage into the sac: A rare case report.](#) **Asian J Neurosurg**. 2014;9:158-60.

- 103) **Borkar SA**, Garg, K, Garg M, Sharma BS. Transorbital penetrating cerebral injury caused by a wooden stick: surgical nuances for removal of a foreign body lodged in cavernous sinus. **Childs Nerv Syst.** 2014;30 :1441-4.
- 104) Shivaramgowda NH, **Borkar SA**, Garg K, Suri V, Sharma MC, et al. Central Neurocytomas: A Comprehensive Review with Special Emphasis on the Role of Gamma Knife Stereotactic Radiosurgery. **J Hematol Thrombo Dis** 2014; 3:140.
- 105) Satyarthee GD, Dawar P, **Borkar SA**, Sharma BS. Transorbital penetrating head injury(TOPHI): Short series of two cases with review of literature. **Indian J of Neurotrauma** [2014](#); 11: 49–52
- 106) **Borkar SA**, Prasad GL, Gupta DK, Sinha S, Mahapatra AK. Compound elevated skull fracture: a clinical series of three patients with a review of the literature. **Turk Neurosurg.** 2013;23:514-7.
- 107) Tandon V, Garg K, Mahapatra AK, **Borkar SA**. Extra Giant Occipital Encephalocele- Can it Grow Bigger Than This? **Indian J Pediatr.** 2014;81:1131-2.
- 108) **Borkar SA**, Lakshmiprasad G, Sharma BS, Mahapatra AK. Remote site intracranial haemorrhage: a clinical series of five patients with review of literature. **Br J Neurosurg.** 2013 ;27:735-8
- 109) **Borkar SA**, Prasad GL, Kiran CS, Sharma MC, Mahapatra AK. Giant cell glioblastoma multiforme in the pediatric age group : Report of two cases. **J Pediatr Neurosci.** 2013 ;8:38-40.
- 110) **Borkar SA**, Satyarthee GD, Mahapatra AK. “ Armoured brain ” Syndrome : Chronic calcified subdural haematoma. **Pan Arab J Neurosurgery** 2013;17.
- 111) **Borkar SA**, Singh M, Mahapatra AK. Fatal intraventricular rupture of a pyogenic brain abscess. **Pan Arab J Neurosurgery** 2013;17.
- 112) **Borkar SA**, Garg K, Gupta DK, Mahapatra AK. Intracerebral haemorrhage following thrombolysis for acute myocardial infarction. **Pan Arab J Neurosurgery** 2013;17.
- 113) Sharma B S, **Borkar SA**. Current and future management of brain metastasis (Progress in Neurological Surgery). **Indian J Med Res** 2013;137:399-400.
- 114) Goyal N, **Borkar SA**, Mahapatra AK. Pituitary adenoma presenting with CSF rhinorrhoea as the sole symptom. **Neurol India.** 2012;60:307-8.

- 115) **Borkar SA**, Mahapatra AK. Cystic with mural nodule : An unusual radiological presentation of supratentorial anaplastic ependymoma.**J Pediatric Neurosci** 2012;7:101-2.
- 116) **Borkar SA**, Agrawal D. Low Dose Ionising Radiation Induced Acoustic Neuroma: A Putative Link? **Indian J Neurosurg** 2012;1:78-9.
- 117) **Borkar SA**, Sinha S, Agrawal D, Satyarthee GD, Gupta DK, Mahapatra AK. Severe head injury in the elderly : Risk factor assessment & outcome analysis in a series of 100 consecutive patients at a Level 1 trauma centre. **Indian J of Neurotrauma**, 2011,;8(2):77-82.
- 118) **Borkar SA**, Mahapatra AK. Glioblastoma multiforme with very rapid growth and long-term survival in children.**Childs Nerv System**, 2012;**28:7**.
- 119) **Borkar SA**, Mahapatra AK. Ventriculoperitoneal shunt catheter protrusion through the anus.**Child's Nervous System**2012;28:341-2.
- 120) **Borkar SA**, Tandon V, Kale SS, Mahapatra AK. Mirror-image insular glioma. **Neurol India**. 2010 ;58:978-9.
- 121) **Borkar SA**, Prasad GL, Agrawal D, Sharma BS. Cerebellar hemorrhage following supratentorial decompressive craniectomy for severe traumatic brain injury. **Neurol India** 2009;57:680-81.
- 122) Satyarthee GD, **Borkar SA**, Tripathi AK, Sharma BS. Transorbital penetrating cerebral injury with a ceramic stone: Report of an interesting case. **Neurol India** 2009;57:331-3.
- 123) **Borkar SA**, Sinha S, Sharma BS. Remote site extradural haematoma.**J Clin Neurosci**.2009;16:1097-8.
- 124) **Borkar SA**, Satyarthee GD, Das P, Suri V. Isolated brain metastasis from malignant melanoma of choroid seven years following enucleation. **Neurol India** 2009;57:92-4
- 125) **Borkar SA**, Sinha S, Sharma BS. Post- traumatic Compound Elevated Fracture of Skull Simulating a Formal Craniotomy.**Turk Neurosurg**. 2009;19:103-105.
- 126) Suri V, Das P, Jain A, Sharma MC, **Borkar SA**, Suri A, Gupta D, Sarkar C. Pediatric glioblastomas: A histopathological and molecular genetic study. **Neuro Oncol**.2009 ;11:274-80.

- 127) **Borkar SA**, Sharma MS, Rajpal G, Jain M, Xess I, Sharma BS. Brain abscess caused by *Cladophialophora Bantiana* in an immunocompetent host: need for a novel cost-effective antifungal agent. **Indian J Med Microbiol.** 2008;26(3):271-4.
- 128) **Borkar SA**, Tripathi AK, Satyarthee GD, Rishi A, Kale SS, Sharma BS. Fronto-orbital intradiploic transitional meningioma. **Neurol India** 2008;56(2):205-6.
- 129) **Borkar SA**, Kasliwal MK, Sinha S, Sharma BS. MR imaging in aneurysmal bone cyst of the orbit. **Turk Neurosurg.** 2008;18(2):183-6.
- 130) **Borkar S**, Tripathi AK, Satyarthee G, Sharma BS, Mahapatra AK. Frontal mucocele presenting with forehead subcutaneous mass: an unusual presentation. Turk Neurosurg. 2008;18(2):200-3.
- 131) **Borkar SA**, Satyarthee GD, Khan RN, Sharma BS, Mahapatra AK. Spontaneous extrusion of migrated ventriculoperitoneal shunt catheter through chest wall: a case report. **Turk Neurosurg.** 2008 ;18(1):95-8.
- 132) **Borkar SA**, Kasliwal MK, Mahapatra AK. Intrahepatic abscess complication ventriculoperitoneal shunt. **J Pediatr Neurosci** 2007;2:16-7.
- 133) Sinha S, **Borkar S**. Chronic calcified extradural hematoma in a child: Case report and review of literature. **Indian Journal of Neurotrauma (IJNT)** 2008, 5: 51-52.

#### CHAPTERS IN BOOK

- 134) Praneeth Kokkula, Hitesh Inder Singh Rai, **Sachin Anil Borkar**. Occipital Condylar Fracture. AIIMS Neurosurgery Case Book-Cervical Spine trauma. Salubris Medical Publishers, Delhi, India. 2022, 1-6.
- 135) Amol Raheja, Ravi Sharma, **Sachin Anil Borkar**. C7 Vertebral Body Fracture Dislocation. AIIMS Neurosurgery Case Book-Cervical Spine trauma. Salubris Medical Publishers, Delhi, India. 2022, 88-97.
- 136) Hitesh Kumar Gurjar, Tungish Bansal, **Sachin Anil Borkar**. Subaxial Spine Injuries–Unilateral Facet Dislocation. AIIMS Neurosurgery Case Book-Cervical Spine trauma. Salubris Medical Publishers, Delhi, India. 2022, 61-68.
- 137) **Sachin Anil Borkar**, Ravi Sharma, Varidh Katiyar. Cervicothoracic Junction Fracture-Dislocation. AIIMS Neurosurgery Case Book-Cervical Spine trauma. Salubris Medical Publishers, Delhi, India. 2022, 98-108.
- 138) **Borkar SA**, Sharma R, Kale SS. Transoral approaches to C1-C2. ASSI Theater manual- Surgery Essentials, 163-170. (In press)

- 139) **Borkar SA**, Sharma R, Narwal P, Kale SS. Intraspinal anomalies with scoliosis. Scoliosis monogram. Springer publications (In press)
- 140) **Borkar SA**, Sharma R, Narwal P. Index cases in Spine Surgery : what we can learn? Vertebral Artery Injury In Transoral Surgery. 2022:9-12
- 141) **Borkar SA**, Sreenivasan R, Mahapatra AK. Cervical Split Cord malformations. In Mahapatra Ak, **Borkar SA**, Mahapatra S. Split Cord Malformations. 1<sup>st</sup> edition. Thieme Medical Publishers, New delhi, India. 2021, 61-78.
- 142) **Borkar SA**, Agrawal M, Mahapatra AK. Dorsal spur. In Mahapatra Ak, **Borkar SA**, Mahapatra S. Split Cord Malformations. 1<sup>st</sup> edition. Thieme Medical Publishers, New delhi, India. 2021, 51-60.
- 143) Sharma R, Goda R, Leve Joseph S, **Borkar SA**. Radiological evaluation in Acute traumatic brain injury. In Sinha S, Yagnick N, Deora H. Handbook of Neurotrauma (Vol. II) : Cranial Trauma. 1<sup>st</sup> edition. Salubris Medical publishers, New delhi, India. 2021, 40-54.
- 144) Sharma R, Goda R, **Borkar SA**. Diagnosis and Management of Post-traumatic CSF rhinorrhoea. In Sinha S, Yagnick N, Deora H. Handbook of Neurotrauma (Vol. II) : Cranial Trauma. 1<sup>st</sup> edition. Salubris Medical publishers, New delhi, India. 2021, 231-243.
- 145) Mansoori N, Bansil R, **Borkar SA**, Sinha S. Cell based regenerative therapies in Spinal Cord Injury. In Sinha S, Deora H. Handbook of Neurotrauma Vol. 1-Spinal Trauma. 1<sup>st</sup> edition. Salubris Medical publishers, Noida, India, 2020.
- 146) Mansoori N, Bansil R, **Borkar SA**, Sinha S. Translational Research in Spine Injury. In Sinha S, Deora H. Handbook of Neurotrauma Vol. 1-Spinal Trauma. 1<sup>st</sup> edition. Salubris Medical publishers, Noida, India, 2020.
- 147) Sharma R, **Borkar SA**, Sinha S. Management of Neuropathic pain, Spasticity and Autonomic dysreflexia after acute spinal cord injury. In Sinha S, Deora H. Handbook of Neurotrauma Vol. 1-Spinal Trauma. 1<sup>st</sup> edition. Salubris Medical publishers, Noida, India, 2020
- 148) **Borkar S**, Sharma R, Kale SS. O-arm and neuronavigation in Minimally Invasive Spine surgery. In Sardhara J, Behari S, et al. Handbook of Minimally Invasive Spine Surgery . 1<sup>st</sup> edition Salubris Medical publishers, Lucknow, India 2019.
- 149) **Borkar SA**, Agrawal M, Sinha S. Neurosurgical treatment of Trigeminal Neuralgia. In Rath GP. Handbook of Trigeminal Neuralgia. 1<sup>st</sup> edition. Springer, Heidelberg, Germany. 2019, 161-7.

- 150) **Borkar S**, Aggarwal L, Vaishya S. Neurosurgery. Essentials of Surgery 2<sup>nd</sup> edition(Jaypee Brothers Medical Publishers, New delhi); 2016:1348-1364.
- 151) **Borkar SA**, Suri A. Endoscopic management of neurocysticercosis. Clinical Neuroendoscopy(Thieme Publishers, Noida, India); 2013:23-27.
- 152) Suri A, **Borkar SA**, Mishra NK. Posterior circulation aneurysms. In Ramamurthi B, Tandon PN : Textbook of Neurosurgery(Jaypee Publications, New delhi); 2011 : 996-1007.
- 153) **Borkar SA**, Mahapatra AK. Post-operative pituitary apoplexy. In Turgut M, Mahapatra AK. Pituitary apoplexy( Springer Verlag),2013.
- 154) **Borkar SA**, Goyal N, Mahapatra AK. Subarachnoid haemorrhage following trans-sphenoidal surgery.. In Turgut M, Mahapatra AK. Pituitary apoplexy( Springer Verlag),2013.

#### PUBLISHED ABSTRACTS

- 155) **Borkar SA. Spinal cerebrospinal fluid drainage for prevention of vasospasm in aneurysmal subarachnoid haemorrhage: a prospective randomized controlled study. Neurosurgery 2013; 60 Suppl 1:180-1.PMID: [23839450](https://pubmed.ncbi.nlm.nih.gov/23839450/).**
- 156) **Borkar SA.**Prediction of facial nerve position in Vestibular Schwannoma using Diffusion Tensor Imaging Tractography and its intraoperative correlation.**Eur J Cancer; 2016:54 Suppl.1:S37-S38.**

#### PRESENTATIONS

##### **2022-23**

- 1) Dural tear during OPLL surgery. Complications management.Video session. Mid-West Chapter of Neurological Surgeons(MCNS-2022), Wardha,7-9<sup>th</sup> April,2022.
- 2) Revision ACDF.Complications management.Video session. Mid-West Chapter of Neurological Surgeons(MCNS-2022), Wardha,7-9<sup>th</sup> April,2022.
- 3) CVJ anomalies. From simple to complex to intricate.Mid-West Chapter of Neurological Surgeons(MCNS-2022), Wardha,7-9<sup>th</sup> April,2022.
- 4) Is Transoral odontoidectomy a historic operation.Evolution & current status of CVJ management.ASSICON-2022 Annual conference of Association of Spine Surgeons of India, Patna.30<sup>th</sup> April,2022.



- 5) Anterior odontoid screw: Indications & Surgical technique. ASSICON-2022 Annual conference of Association of Spine Surgeons of India, Patna. 30<sup>th</sup> April, 2022.
- 6) Think before you screw ( the patient)! : Talk on complications . Bimonthly meeting of Delhi Spine Society, 14<sup>th</sup> May, 2022, Delhi.
- 7) Correlation between Radiological Outcome and Functional Outcome Following Cervical Laminoplasty for Cervical Spondylotic Myelopathy and Ossification of Posterior Longitudinal Ligament. 28<sup>th</sup> May, 2022. Korean Spine Society Meeting - 2022( Virtual)
- 8) Anterior decompression in OPLL : Technical Tips. Asia Pacific Spine Society Meeting. 10-12<sup>th</sup> June ,2022, Coimbatore India( Hybrid/Virtual)
- 9) How to make a mark in an institute full of stalwarts? Inaugural meeting of Neurological Society of India- Young Neurosurgeon's Forum(NSI-YNF), 11-12<sup>th</sup> June, 2022, Chennai, India
- 10) Anterior odontoid Screw: Tips and Tricks. Instructional Course in Spine (ICS-2022), 3-6<sup>th</sup> Nov. 2022, Bhubaneswar, India
- 11) Career planning after Neurosurgery. NSI Instructional & Foundation Course. 19-20<sup>th</sup> Nov. 2022, Nagpur, India
  
- 12) Avoiding radiation exposure in MISS surgery. AO Spine Principles level Anatomical Specimen Course, 26-27<sup>th</sup> Nov. 2022, New delhi, India
- 13) MISS tubular discectomy with surgical stepwise video. AO Spine Principles level Anatomical Specimen Course, 26-27<sup>th</sup> Nov. 2022, New delhi, India
- 14) MIS in Spinal Cord tumours .AO Spine Principles level Anatomical Specimen Course, 26-27<sup>th</sup> Nov. 2022, New delhi, India
- 15) Does Cervical Laminoplasty cause Kyphosis? Annual Conference of Neuro Spinal Surgeons' Association of India. 15-18<sup>th</sup> Sept. 2022, Mumbai, India
- 16) DCER technique for Basilar impression. Annual Conference of Neuro Spinal Surgeons' Association of India. 15-18<sup>th</sup> Sept. 2022, Mumbai, India
- 17) Is transoral odontoidectomy a historic operation ? Current Indications and technique. Annual Conference of Neuro Spinal Surgeons' Association of India. 15-18<sup>th</sup> Sept. 2022, Mumbai, India
- 18) Syndromic CVJ anomaly. Bimonthly meeting of Delhi Spine Society, 29<sup>th</sup> Oct., 2022, Delhi.

- 19) Cervical kyphosis. Interactive case discussion. AIIMS Annual Spine Workshop.6-8<sup>th</sup> Sept.2022, New delhi, India
- 20) MISS Intradural tumour surgery. Neurosurgical Association of Malaysia Annual Meeting (NAM) and Penang International Neurosurgical Congress.26<sup>th</sup> Aug.2022, Penang, Malaysia( Virtual)
- 21) Pial hemangioblastoma. Surgical management. World Neurosciences Summit(WNS), 25-28<sup>th</sup> Aug.2022, New delhi, India
- 22) CVJ anomaly : The Good, The Bad and The Ugly.World Neurosciences Summit(WNS), 25-28<sup>th</sup> Aug.2022, New delhi, India
- 23) Adjacent Segment disease after prior cervical fusion : Management strategies.World Neurosciences Summit(WNS), 25-28<sup>th</sup> Aug.2022, New delhi, India
- 24) Role of decompressive craniectomy and ICP monitoring.International Society of Pediatric Neurosurgery ISPN Course and Mid-term meeting of IndianSociety of Pediatric Neurosurgery. 12-14<sup>th</sup> Aug.2022, Kolkata, India
- 25) Pediatric trauma Interactive case presentation.International Society of Pediatric Neurosurgery ISPN Course and Mid-term meeting of IndianSociety of Pediatric Neurosurgery. 12-14<sup>th</sup> Aug.2022, Kolkata, India
- 26) Interactive case presentation.NSI masterclass CVJ anomaly.13<sup>th</sup> August ,2022.
- 27) Approach to a case of Spinal Pathology. INSRAF Webinar. 8<sup>th</sup> July,2022
- 28) Anterior dural tear during Cervical Trauma.2- 4<sup>th</sup> Dec.2022. International Spine and Spinal Cord Injury meeting(ISSICON-2022), New delhi, India.
- 29) Basics of Scoliosis for Neurosurgeons. Annual Conference of Neurological Society of India(NSI)-8-11<sup>th</sup> Dec. 2022, Agra, India

#### **Chaiperson/Moderator/Panelist**

- 30) Epilepsy & Functional Neurosurgery session.Mid-West Chapter of Neurological Surgeons(MCNS-2022), Wardha,7-9<sup>th</sup> April,2022.
- 31) Complications Session.Inaugural meeting of Neurological Society of India- Young Neurosurgeon's Forum(NSI-YNF), 11-12<sup>th</sup> June,2022, Chennai, India(Moderator)
- 32) Nuances of TLIF.NSI Virtual OT webinar.15<sup>th</sup> June,2022( Moderator)

- 33) Did Live Operative Workshop at KIMS, Bhubaneswar during Instructional Course in Spine (ICS-2022), 3-6<sup>th</sup> Nov. 2022, Bhubaneswar, India
- 34) Meningitis & encephalitis session . 3<sup>rd</sup> Annual Conference of Neuro-Critical Care Society of India (NCSI). 6-9<sup>th</sup> Oct. 2022, New delhi, India.
- 35) Spine Oncology (extradural) session. World Neurosciences Summit (WNS), 25-28<sup>th</sup> Aug. 2022, New delhi, India
- 36) MIS lumbar discectomy. World Neurosciences Summit (WNS), 25-28<sup>th</sup> Aug. 2022, New delhi, India
- 37) Minimally invasive cervical spine surgery. World Neurosciences Summit (WNS), 25-28<sup>th</sup> Aug. 2022, New delhi, India
- 38) NSI masterclass CVJ anomaly. 13<sup>th</sup> August ,2022. (Moderator)
- 39) Panel discussion. Spine metastasis. 2- 4<sup>th</sup> Dec. 2022. International Spine and Spinal Cord Injury meeting (ISSICON-2022), New delhi, India.
- 40) Conducted pre-conference saw bone workshop on spine models during Annual Conference of Neurological Society of India (NSI)-7<sup>th</sup> -11<sup>th</sup> Dec. 2022, Agra, India

## 2021-22

S. No.	Title of talk	Name of the CME/conference	Date	City/Country (on outside India)
1	Recurrent lumbar disc : Fusion is the answer.	Delhi Spine Society Annual meeting	27 <sup>th</sup> March, 2022	Gurgaon, India.
2	Early versus late Surgery for Subaxial Cervical Spine Injury	Annual AIIMS Neurotrauma Conference	20 <sup>th</sup> March, 2022.	New delhi, India
3	C1-C2 disc Is it real?,	Bimonthly meeting of Delhi Spine Society Annual meeting	12 <sup>th</sup> march, 2022.	Delhi, India
4	Recurrent lumbar disc : For Fusion (Debate).	Nepalese Society of Neurosurgeons Meeting	26 <sup>th</sup> Nov, 2021	Virtual
5	Dural tear during anterior cervical surgery	Nepalese Society of Neurosurgeons Meeting (	26 <sup>th</sup> Nov, 2021	Virtual

6	Congenital Atlantoaxial Dislocation:Anatomy, Pathophysiology and Surgical Principles.	CLIRNET online education activity . Sharda University Noida, India	31 <sup>st</sup> Oct.2021	Virtual
7	Cervical Trauma: Spinal cord injury assessment and management:What's In and What's Out?.,	AO Spine Course	18th Sept.2021	Delhi, India
8	Spine Surgery during COVID pandemic .	AIIMS Clinical Combined Round	31st Aug.2021	Delhi ,India
9	Odontoid Screw for odontoid fracture	Annual meeting of Neurotrauma Society of India(NTSI)	27th Aug.2021	Virtual
10	Intraop dural tear during anterior cervical decompression.	ASSI Combined ICS Live Surgery Course 2021	27-29th Aug.2021	Virtual
11	Cervical laminoplasty : What's new ?	AO Spine In-league webinar.	16th July,2021	Virtual
12	NBE webinar.	Intradural tumors of the spine	7th July,2021.	Virtual
13	Management of complications during lumbar spine surgery-dural tear, pseudomeningocele,etc..	AO Spine Advanced Webinar—Degenerative Lumbar Spine Surgery	22nd May,2022.	Virtual
14	Approach to a Spine Case in exam.	ASSI Fellows educational activity	4th April,2021	Virtual
15	Preoperative radiological evaluation for planning -	SGPGI Spine Course.	8th May,2021	Virtual

	anterior versus posterior approaches in Dorsal Spine pathologies..			
16	MIS resection of intradural tumour.	MISSAB Surgical Symposium	9-10th April, 2021	Virtual
17	Panelist-Landmark papers in Spine surgery	NSI Journal Club	26th March, 2022.	Virtual
18	Chairperson-ANTC Distinguished Lecture Series 1	Annual AIIMS Neurotrauma Conference	21st March, 2022	New delhi, India
19	Moderator – Pituitary session	Delhi Neurological Association Annual Meeting	5-6th Feb.2022	Virtual
20	Panelist - NBE case based discussion on CVJ anomalies.	NBE webinar	29th Dec.21	Virtual
21	Moderator-NBE panel discussion on CVJ anomalies	NBE webinar	5th Jan.22	Virtual
22	Panelist- Severe Basilar invagination - Case based discussion	ISSICON-2021	18th-20th Nov.2021	Delhi,India
23	Panelist-Minimally invasive approach to intradural pathology.	MISSAB tutorials	10th Nov.2021	Virtual
24	Chairperson & Judge – Award paper session..	SKULLBASECON-2021, Annual Conference of SBSSI	22-24th Oct.2021	Jodhpur.
25	Panelist-LCS (no listhesis)-decompression vs fusion	MISSAB Surgical Symposium	9-10th April, 2022	Virtual

**2020-2021**

<b>S. No.</b>	<b>Title of talk</b>	<b>Name of the CME/conference</b>	<b>Date</b>	<b>City/Country (only if outside India)</b>
1	Preoperative radiological evaluation for planning - anterior versus posterior approaches for Dorsal spine pathology(Speaker)	SGPGI Comprehensive Spine Course (Virtual)	8-9 May,2021	Virtual
2	TLIF (Expert panelist)	SGPGI Comprehensive Spine Course (Virtual)	8-9 May,2021	Virtual
3	MIS resection of intradural tumour (Speaker)	Minimally Invasive Spine Surgery Society of Bharat(MISSAB)Surgical Symposium	9-10 April,2021	Virtual
4	Topic - LCS (no listhesis)-decompression vs fusion (Expert Panelist)	Minimally Invasive Spine Surgery Society of Bharat(MISSAB)Surgical Symposium	9-10 April,2021	Virtual
5	Surgical video session (Panelist)	Minimally Invasive Spine Surgery Society of Bharat(MISSAB)Surgical Symposium	9-10 April,2021	Virtual
6	Neurological Examination of the Spine- Approach to a Spine case in exam	Association of Spine Surgeon's of India(ASSI) Spine fellows Training Course	4 <sup>th</sup> April,2021	Virtual
7	Video session by	23rd AIIMS Annual	18-20	Delhi

	residents(Moderator)	Microneurosurgery Workshop	March,20 21	
8	Debate- Decompression versus Fixation in Chiari malformation (Expert)	23rd AIIMS Annual Microneurosurgery Workshop	18-20 March,20 21	Delhi
9	Video- Parasagittal meningioma -Operative Nuances	23rd AIIMS Annual Microneurosurgery Workshop	18-20 March,20 21	Delhi
10	Craniosynostosis session(moderator)	3rd Dr DK Chhabra oration and Dr VK Jain oration with SGPGI Pediatric Neurosurgery update.	28th Feb.2021	Virtual
11	Pediatric spinal deformity- Os odontoideum with Cervical Kyphosis	Association of Spine Surgeon's of India Conference ASSICON Virtual -2021	29-31st January, 2021	Virtual
12	Cervical Laminoplasty : Newer Perspectives	Annual meeting of Delhi Neurological Association-2021	7th Feb.2021	Virtual
13	Deformity case(Moderator)	NSI master-class in Spine Surgery	6th Feb.2021	Virtual
14	Dual spinal injuries case(Moderator)	NSI master-class in Spine surgery	16th Jan.2021	Virtual
15	Complications Case ( Moderator)	NSI master-class in Spine surgery	26th Dec.2020	Virtual

16	Vertebral hemangioma case (Presenter)	SUPER SPECIALITY COURSE ( NSI-CNS) Controversies in Neurovascular Surgery	9th Dec.2020	Virtual
17	Cervical laminoplasty technique	AO Spine Surgical Video Discussion Advanced Webinar— Cervical laminoplasty and Lateral mass & C1-2	6th Dec.2020	Virtual
18	Tumour case (Presenter)	NSI master-class in Spine surgery	21st Nov.2020	Virtual
19	Degenerative case(Presenter)	NSI masterclass in Spine surgery	31st Oct.2020	Virtual
20	Interactive Case discussion- Aneurysmal bone cyst of spine & Post-laminectomy cervical kyphosis	Pune Spine Weekend	31st Oct.2020	Virtual



21	Dynamic Extension Reserve(DER) & T1 slope (T1S) predict loss of Cervical Lordosis following Cervical laminoplasty	Association of Spine Surgeon's of India Conference ASSICON Virtual -2020	18-20th Sept.2020	Virtual
22	Presenter & Moderator	AIIMS Surgical Workflow in Covid Era - Lessons Learnt	14th August,2020	Virtual
23	AAD and Complex CVJ Anomalies : Tips & Tricks of Management	AO Spine Hangout- Case based discussion webinar	28th May,2020	Virtual
24	Moderator	AO Spine webinar on Diagnosis, investigations and medical management of spinal tuberculosis	26th May,2020	Virtual
25	Moderator	Medtronic Educational Webinar on Degenerative CSM and Chiari malformation	18th April,2020	Virtual

**2019-2020**

<b>S. No.</b>	<b>Title of talk</b>	<b>Name of the CME/conference</b>	<b>Date</b>	<b>City/Country (only if outside India)</b>
1	Outcome predictors of laminoplasty for CSM/OPLL	5th Congress of Middle East Spine Society & Interim Meeting of World Spinal column Society – Spine Congress 2019	4-6 <sup>th</sup> April,2019	Delhi

2	Role and timing of surgery in SCI- Pros regarding early surgery	Annual Meeting of Neurotrauma Society of India	23-25 <sup>th</sup> August, 2019	Agra
3	Surgical Management in acute TBI- Surgical Indications and technique of DC	Annual Meeting of Neurotrauma Society of India	23-25 <sup>th</sup> August, 2019	Agra
4	Spine Workshop- Lumbar pedicle screws : anatomy and technique	Annual Meeting of Neurotrauma Society of India	23-25 <sup>th</sup> August, 2019	Agra
5	Spine Workshop- Odontoid screw fixation	Annual Meeting of Neurotrauma Society of India	23-25 <sup>th</sup> August, 2019	Agra
6	P S Ramani oration ( Introduction of Orator – Dr. K ganapathy)	Annual Meeting of Neurotrauma Society of India	23-25 <sup>th</sup> August, 2019	Agra

7	Does cervical laminoplasty cause kyphosis ? : Analysis of factors responsible for cervical alignment following laminoplasty	Annual meeting of Neuro-spinal Surgeons Association of India (NSSA)	30August-1 <sup>st</sup> September, 2019	Kochi
8	Embolization of vertebral body tumours	Annual meeting of Neuro-spinal Surgeons Association of India (NSSA)	30August-1 <sup>st</sup> September, 2019	Kochi
9	Asia Pacific Cervical spine Society session on Degenerative Cervical spine( Moderator)	Annual meeting of Neuro-spinal Surgeons Association of India (NSSA)	30August-1 <sup>st</sup> September, 2019	Kochi

10	ACDF vs PCF .What is the evidence?	Annual meeting of Minimally invasive Spine Surgeons' Association of Bharat(MISSICON -2019);	1-3 <sup>rd</sup> Nov 2019	Chandigarh
11	S P AGGARWAL ORATION (Chaiperson)	Annual meeting of Delhi Neurological Association	1-2 <sup>nd</sup> February , 2020	Delhi
12	C1-C2 transarticular screw : Indications & Technique	APSS-BSS Cervical Spine workshop	16 <sup>th</sup> February, 2020	Mumbai
13	Intraoperative Neuromonitoring in Spine Surgery: Technique, Pearls and Pitfalls	Mastering Advanced Technologies and Skills Congress in Neurosurgery (MATS 2020)	20-23 February ,2020	Gurgaon
14	Upper trunk BPI : strategies for reanimation	Annual meeting of Indian Society of Peripheral nerve surgery	27-29 <sup>th</sup> February, 2020	Coimbatore

S. No.	Authors	Title of presentation	Name of the conference	Date	City/Country (only if outside India)
15.	Sharma R, Borkar SA, Kale SS	Cervical rotation before and after hinge door cervical laminoplasty	5th Congress of Middle East Spine Society & Interim Meeting of World Spinal column Society – Spine Congress 2019	4-6 <sup>th</sup> April, 2019	Delhi
16.	Sharma D, Borkar SA, Kale SS	Lumbo pelvic fixation in intractable back pain : What is the	Delhi Spine Society Bimonthly meeting	25 <sup>th</sup> May, 2019	Delhi

		evidence ?			
1 7	Sharma D, Borkar SA, Kale SS	Unusual case of Sacral tumour	Delhi Spine Society Bimonthly meeting	7 <sup>th</sup> July,2019	Delhi
1 8	Shrijith MB,Borkar SA, Kale SS	CVJ TB	Delhi Spine Society Bimonthly meeting	5 <sup>th</sup> Oct.2019	Delhi
1 9	Jain A,Borkar SA, Kale SS	Difficult case of dorsal myelopathy	Delhi Spine Society Bimonthly meeting	16 <sup>th</sup> Nov .2019	Delhi
2 0	Faiz Akram Siddiqui, Borkar SA, Kale SS	Revision ACDF : Technical Nuances	Delhi Spine Society Bimonthly meeting	8 <sup>th</sup> feb 2020	Delhi

### 2018-2019

S. No.	Title of talk	Name of the CME/conference	Date	City/Country (only if outside India)
1	O –arm navigation – Necessity or luxury ?	Annual meeting of Minimally invasive Spine Surgeons' Association of Bharat(MISSICON -2018);	26-28 <sup>th</sup> Sept. 2018	Hyderabad , India
2	Evidence based management of Recurrent gliomas .	Paras Neurocon	14-16 Septemb er , 2018	Gurgaon, India
3	ACDF complication avoidance .	Preconference cadaveric workshop DOACON 2018 (Delhi Orthopedic Association Annual Conference)	22 <sup>nd</sup> Nov.201 8	delhi
4	Overview of various surgical strategies in AIS .	2 <sup>nd</sup> SPINECON-2019 Annual Master Course in Spine Surgery	18-20 <sup>th</sup> January,	Gurgaon, India

			2019.	
5	Minimally invasive spine surgery for Intradural tumours	Instructional course in spine - 2018	9-11 <sup>th</sup> August 2018	Amritsar, India

S. No.	Authors	Title of presentation	Name of the conference	Date	City/Country (only if outside India)
6.	Borkar SA, Samala R, Kale SS	Extramedullary foramen magnum tumors : technical nuances and outcome analysis.	Global Spine Congress , , Singapore.	2-5 <sup>th</sup> May ,2018	Singapore
7.	Borkar SA, Samala R, Suri A, Gupta D, Kumar R,Kale SS	Facial nerve DTI tractography in Large Vestibular schwannoma : Is it really helpful ?,	WFNS Symposium	16-19 <sup>th</sup> Aug 2018( <b>Awarded best paper award)</b>	Kualalumpur , Malaysia
8	<b>Borkar SA, Kale SS</b>	<b>Pediatric CVJ and cervical spine anomalies : complication avoidance and bailout</b>	<b>Annual Conference of Indian society of pediatric neurosurgery</b>	<b>15-17<sup>th</sup> Feb.2019</b>	<b>Delhi</b>

Before 2018

- 119) Post-laminectomy cervical kyphosis. Annual Meeting of Delhi Spine Society, 31<sup>st</sup> March -1<sup>st</sup> April, 2018; Manesar, India(Oral)
- 120) Pediatric CVJ and cervical spine anomalies : Problems and Bailout .Cervical Spine Research Society(CSRS) – Asia Pacific Section Annual Meeting, 22-24<sup>th</sup> March, 2018; Gurgaon, India(Oral)
- 121) Extramedullary foramen magnum tumors : Technical nuances and outcome.Cervical Spine Research Society(CSRS) – Asia Pacific Section Annual Meeting, 22-24<sup>th</sup> March, 2018; Gurgaon, India(E-poster)
- 122) Surgical Site Infection.Hospital Infection Control Conference, 15-16<sup>th</sup> March,2018, New delhi, India(Oral)
- 123) Recent Advances in Neurosurgery. AIIMS nursing update, 8-9<sup>th</sup> March,2018, New delhi, India(Oral)
- 124) Facial nerve DTI tractography in large vestibular schwannomas: Is it useful? Delhi Neurological Association Monthly meeting , March 2018, New delhi, India
- 125) Cervical Disc Replacement versus ACDF. AIIMS Microneurosurgery Workshop. 13-15<sup>th</sup> Feb.2018, New delhi, India(Oral)
- 126) Primary Vertebral body tumors: Diagnosis and management ; SPINECON-2018 1<sup>st</sup> Annual Master Course in Spine Surgery , 2-4<sup>th</sup> Feb. 2018.(Oral)
- 127) Traumatic atlanto-axial dislocation. SPINECON-2018; 1<sup>st</sup> Annual Master Course in Spine Surgery , 2-4<sup>th</sup> Feb. 2018.(Oral)
- 128) Cervical Disc Arthroplasty . SPINECON-2018; 1<sup>st</sup> Annual Master Course in Spine Surgery , 2-4<sup>th</sup> Feb. 2018.(Oral)
- 129) Cervical lateral mass screw placement . Cadaveric workshop during SPINECON-2018; 1<sup>st</sup> Annual Master Course in Spine Surgery , 2-4<sup>th</sup> Feb. 2018.(Oral)
- 130) A newer technique to reduce AAD and BI. Delhi Spine Society bimonthly meeting , Jan 2018, New delhi, India(Oral)
- 131) Effectiveness of preoperative facial nerve DTI tractography for preservation of facial nerve function in surgery for large vestibular schwannoma: Interim results of a Prospective randomized study. Annual Meeting of Neurological Society of India, Nov.30- Dec.3, 2017; Nagpur, India(Oral)
- 132) Degenerative Lumbar Spondylolisthesis : When to fuse? Annual AIIMS Spine Workshop, Nov 16- 18, 2017 ;New delhi, India(Oral)
- 133) CVJ anomalies in Achondroplasia. Delhi Spine Society bimonthly meeting , Nov.17, New delhi, India(Oral)

- 134)Complex Thoracolumbar Spinal Trauma : Current management Overview and What is New? Annual Neurotrauma Conference(ANTC-2017),26-29<sup>th</sup> Oct.2017, New delhi, India
- 135)Complex Spinal Deformities : Challenges, opportunities & Outcome. Annual Meeting of Neuro-Spinal Surgeons' Association(NSSA) India, 29 Sept – 1<sup>st</sup> Oct, 2017, New delhi, India(Platform)
- 136)Effectiveness of preoperative facial nerve DTI tractography for preservation of facial nerve function in surgery for large vestibular schwannoma: Interim results of a Prospective randomized study, XVI WFNS World Congress, August 2017,Istanbul(Platform)
- 137)Mature teratoma of petrous temporal bone. XVI WFNS World Congress, Aug.2017 ;Istanbul(E-poster))
- 138)Tandem Spinal Stenoses : Institutional experience. XVI WFNS World Congress, Aug.2017,Istanbul(E-poster))
- 139)Approach to a surgical lesion.World Neurosciences Summit, 18-20 August, 2017; New delhi.(Platform)
- 140)Cranial nerve 360 degree anatomy. World Neurosciences Summit, 18-20 August, 2017;New delhi.(Platform, Workshop)
- 141)Free hand versus C-arm/O-arm guided pedicle screw placement in Complex Thoracolumbar Trauma.Annual Conference of Neurotrauma Society of India, Aug.2017;Ooty, India(Platform)
- 142)Complex Spinal deformities: Challenges, Opportunities and Outcome. Delhi Neurological Association Meeting, New delhi 4<sup>th</sup> March ,2017(Platform)
- 143)Prediction of facial nerve position in Large Vestibular Schwannoma using Diffusion Tensor Imaging Tractography and its intraoperative correlation. European Cancer Congress, 27-30 January,2017; Amsterdam(E-poster)
- 144)Prediction of facial nerve position in Large Vestibular Schwannoma using Diffusion Tensor Imaging Tractography and its intraoperative correlation.International Neurosurgery Update, 4-5<sup>th</sup> June, 2016, Mumbai India.(Awarded **Neurosurgery NEXTGEN Award**)
- 145)Prediction of facial nerve position in Large Vestibular Schwannoma using Diffusion Tensor Imaging Tractography and its intraoperative correlation.5<sup>th</sup> Annual Conference of Neurological Surgeons' Society of India, 31<sup>st</sup> March-2<sup>nd</sup> April,2016, Srinagar,India.

- 146) Prediction of facial nerve position in Large Vestibular Schwannoma using Diffusion Tensor Imaging Tractography and its intraoperative correlation. International Conference on Cerebrovascular Surgery (ICCVS) and 1st Interim meeting of Asian Australasian Society of Neurological Surgeons (AASNS). 26-28<sup>th</sup> February, 2016, Mumbai, India. (E-poster)
- 147) Prediction of facial nerve position in Large Vestibular Schwannoma using Diffusion Tensor Imaging Tractography and its intraoperative correlation. Tata Memorial Center Platinum Jubilee Cancer Congress. New Ideas in cancer treatment : Challenging dogmas. 26-28<sup>th</sup> February, 2016, Mumbai, India. (Poster)
- 148) Prediction of facial nerve position in Large Vestibular Schwannoma using Diffusion Tensor Imaging Tractography and its intraoperative correlation. Delhi Neurological Association Annual Meeting, 23-24 January, 2016; New Delhi, India. (Awarded **Neurosurgery Best Paper Award**)
- 149) Role of 3D CT angiography in CV junction anomalies and perioperative correlation. UK-UP Neurocon 2016, 22<sup>nd</sup> Annual Conference of Neuroscience Society, 19-20<sup>th</sup> March, 2016, Nainital, UK (Awarded **Best Paper Award 1<sup>st</sup> prize**) (Co-author)
- 150) Surgical management of third ventricular colloid cyst. UK-UP Neurocon 2016, 22<sup>nd</sup> Annual Conference of Neuroscience Society, 19-20<sup>th</sup> March, 2016, Nainital, UK (Awarded **Best Paper Award 2<sup>nd</sup> prize**) (Co-author)
- 151) C7-D1 Aneurysmal bone cyst : Management of a complex case. AO Spine Advances Cadaver Course on Pearls & Pitfalls in Junctional approaches to Spine, February 27-28, 2015, Ahmedabad, India
- 152) Spinal Arachnoid Cysts : An Institutional Experience. European Association of Neurosurgical Societies (EANS) Annual Meeting, Prague, Czech Republic. 12-17<sup>th</sup> October, 2014 (E-poster)
- 153) Spinal CSF drainage for prevention of vasospasm in aneurysmal subarachnoid haemorrhage: A prospective randomized controlled study. (Poster) WFNS World Congress, September 8-13, Seoul, South Korea.
- 154) Endovascular versus surgical management for VA-PICA aneurysms: Experience at a tertiary care centre (**Poster**). WFNS Cadaveric workshop International Skull Base CME & 9<sup>th</sup> Annual Conference of Skull Base Surgery Society of India, New Delhi, India, 2007.



- 155)Posterior fossa dermoid cyst : An unusual presentation (**Poster**). Neurocon-2007, 56<sup>th</sup> Annual Meeting of Neurological Society of India, Agra, India,2007.
- 156)Pediatric glioblastoma : A clinico-pathological study of 45 cases at a tertiary care centre (**Oral**). Neuropedicon-2008, 19<sup>th</sup> Annual Meeting of Indian Society of Pediatric Neurosurgery, Coimbatore, India, 2008.(**Awarded ‘ Resident Paper Award’**).
- 157)Severe head injury in elderly population(**Oral**). TRAUMA-2008, International CME & Inaugural Conference of Indian Society of Trauma & Acute Care, November 2008 , **New delhi, India.**
- 158)Remote site intracranial haemorrhage(**Poster**). DNACON-2009, XI<sup>th</sup> Annual Conference of Delhi Neurological Association, New delhi, India.
- 159)Metabolic alkalosis as an early marker of renal failure in head injury patients (**Poster**). Annual Conference of Neurotrauma Society of India, August 2009, Jaipur, India.
- 160)Severe head injury in elderly : Risk factor assessment & Outcome analysis(**Oral**). XIV World Congress of Neurological Surgery, 30<sup>th</sup> August -4<sup>th</sup> September, 2009 , Boston, MA, USA.
- 161)Severe head injury in elderly population(**Oral**). Neurocon-2009, 58<sup>th</sup> Annual Meeting of Neurological Society of India, Lucknow, India, December 2009.
- 162)Role of lumbar cerebrospinal fluid drainage for the prevention of vasospasm in aneurysmal subarachnoid haemorrhage : A prospective randomized study(**Oral**). Neurological Society of India(NSI) – Congress of Neurological Surgeons(CNS, USA) Joint Conference, 15-19<sup>th</sup> December, 2010; Jaipur, India.
- 163)Remote site intracranial haemorrhage: A clinical series of six patients with review of literature(**Poster**). Neurological Society of India(NSI) – Congress of Neurological Surgeons(CNS, USA) Joint Conference, 15-19<sup>th</sup> December, 2010; Jaipur, India.

### **Courses & Conferences attended –**

Actively participated in the following national & international conferences –

- 1) OLIF Cadaveric and Live Surgery workshop, April 12-13<sup>th</sup> ,2018; New delhi, India
- 2) Annual Conference of Indian Society of Neuro-oncology and WFNS 3D Anatomy Workshop, April 5-8, 2018, New delhi, India
- 3) Annual Meeting of Delhi Spine Society, 31<sup>st</sup> March -1<sup>st</sup> April, 2018; Manesar, India

- 4) Cervical Spine Research Society(CSRS) – Asia Pacific Section Annual Meeting, 22-24<sup>th</sup> March, 2018; Gurgaon, India
- 5) 20<sup>th</sup> AIIMS Microneurosurgery Workshop, Feb.13-15<sup>th</sup> , 2018, New delhi, India.
- 6) Annual Meeting of Neurological Society of India, Nov.30- Dec.3, 2017; Nagpur, India
- 7) Annual AIIMS Spine Workshop, Nov 16- 18, 2017 ;New delhi, India
- 8) Annual Neurotrauma Conference, 27-30<sup>th</sup> Oct.2017, New delhi, India
- 9) XVI WFNS World Congress of Neurosurgery,20-25<sup>th</sup> August,2017; Istanbul, Turkey
- 10) Annual Conference of Neurotrauma Society of India,11-13<sup>th</sup> August,Ooty, India
- 11) 7<sup>th</sup> AIIMS Operative Workshop on Complex Spine Trauma,7-8<sup>th</sup> May,2017, New delhi,India
- 12) SRS- Ganga Spine Course, 2017 , April 26-28, Coimbatore,India.
- 13) 19<sup>th</sup> AIIMS Microneurosurgery Workshop, 2-4 March, 2017, New delhi, India.
- 14) Annual Meeting of Minimally Invasive Spine Surgery Society of India(MISSICON-2016), 14-16<sup>th</sup> October, 2016; New Delhi, India
- 15) Annual Meeting of Neurotrauma Society of India(NTSI), 12-14<sup>th</sup> August 2016, New delhi, India.
- 16) Operative Workshop on Complex Spinal Trauma, 7-8<sup>th</sup> May, 2016, New delhi, India
- 17) AO Spine Scoliosis Week, 1-7<sup>th</sup> May, 2016, Kochi, India.
- 18) 5<sup>th</sup> Annual Conference of Neurological Surgeons' Society of India, 31<sup>st</sup> March-2<sup>nd</sup> April,2016, Srinagar,India.
- 19) 18<sup>th</sup> AIIMS Microneurosurgery Workshop, 2-4 March, 2016, New delhi, India.
- 20) International Conference on Cerebrovascular Surgery(ICCVS) and 1st Interim meeting of Asian Australasian Society of Neurological Surgeons(AASNS). 26-28<sup>th</sup> February,2016, Mumbai, India.
- 21) World Congress of Nerve surgery, WCNS-2016 (under the auspices of WFNS Peripheral nerve section and Indian Society of Peripheral Nerve Surgery,4-6<sup>th</sup> February,2016, New delhi,India
- 22) Annual Conference of Association of Spine Surgeons of India(ASSICON), 27-29<sup>th</sup> November, Goa, India
- 23) WFNS Skull Base Neuroendoscopy Live Operative, Cadaveric and Simulation Workshop, 25-26<sup>th</sup> November, 2015, New delhi, India
- 24) AIIMS Neurosciences Golden Jubilee Congress, 23-24<sup>th</sup> November, 2015, New Delhi, India

- 25) AIIMS Annual Neurotrauma Conference(ANTC), 28-30<sup>th</sup> October, 2015, New Delhi, India
- 26) AIIMS Annual Spine Workshop (Theme: Deformity correction), 22-24<sup>th</sup> October, 2015, New delhi, India
- 27) AO Spine Advances Cadaveric Workshop on Metastatic spinal tumors, 10-11<sup>th</sup> October, 2015, Bangalore, India
- 28) WFNS Interim meeting , 8-12<sup>th</sup> September, Rome, Italy
- 29) Operative Workshop on Complex Spine Trauma(Theme: Kyphoscoliosis), 8-10<sup>th</sup> May,2015,New delhi, India
- 30) Operative Workshop on Epilepsy, April 2015,New delhi, India
- 31) AO Spine Advances Cadaver Course on Pearls & Pitfalls in Junctional approaches to Spine, February 27-28, 2015, Ahmedabad , India.
- 32) 17<sup>th</sup> AIIMS Microneurosurgery Workshop, 13-15<sup>th</sup> February, 2015, New delhi, India
- 33) Annual Conference of Association of Spine Surgeons of India(ASSICON), 23-25<sup>th</sup> January ,2015, Pune , India
- 34) AO Spine Masters Symposium ,November 28-29,2014, Chennai , India
- 35) AO Spine National Symposium ,November 29-30,2014, Chennai , India
- 36) AIIMS Annual Neurotrauma Conference, 30<sup>th</sup> Oct-1<sup>st</sup> Nov.2014, New delhi, India
- 37) AIIMS Annual Spine Workshop, Oct.2014, New delhi, India
- 38) Operative Workshop on Complex Spinal Trauma, May 2014, New delhi, India
- 39) AIIMS Spasticity and Pain Surgery Live Operative Workshop, 20-21<sup>st</sup> March,2014, New Delhi,India
- 40) 16<sup>th</sup> AIIMS Microneurosurgery Workshop, Feb. 2014, New delhi, India.
- 41) AO Advances Deformity Seminar, Novemeber 23-24,2013;Chennai, India.
- 42) AO Advances Operative Course on Degenerative Spine Diseases, September 27-29, 2013,Coimbatore, India
- 43) World Congress of Endoscopic and Navigated Spinal Surgery(WENMISS), November 8-10,2013; New delhi, India.
- 44) AIIMS Annual Spine Workshop( Minimally Invasive Spine Surgery), October 22-24,2013; New delhi, India.
- 45) AIIMS Annual Neurotrauma Conference, August 31-Sept.1,2013;New delhi, India
- 46) BRACHIALCON -2013, AIIMS, New delhi. Live surgery workshop on Brachial plexus and peripheral nerve injuries, 8-10 March,2013 JPNATC, New delhi
- 47) 15<sup>th</sup> AIIMS Microneurosurgery Workshop, Feb. 2013, New delhi, India.

- 48) AO Spine Principles Course, February 22-24, Ahmedabad, India
- 49) Neurocon-2012, 61<sup>st</sup> Annual Conference of Neurological Society of India (NSI), Delhi NCR, December 2012.
- 50) NEUROPEDICON-2012, ISPN CME and Annual Conference of Indian Society of Pediatric Neurosurgery, 1-3 October, 2012, New delhi, India.
- 51) BRACHIALCON -2011, AIIMS, New delhi. Live surgery workshop on Brachial plexus and peripheral nerve injuries, 19-21 December, JPNATC, New delhi
- 52) 11<sup>th</sup> Annual Conference of Indian Society of Cerebrovascular Surgery, Live Neurosurgery & Neuro-intervention Workshop, 6-9 October, 2011, New delhi, India.
- 53) 5<sup>th</sup> AIIMS NETS Neurosurgery Skills Training Workshop (INDO-GERMAN Collaboration), August 2011, New delhi, India.
- 54) 13<sup>th</sup> AIIMS Microneurosurgery Workshop, Feb. 2011, New delhi, India.
- 55) Neurological Society of India (NSI) – Congress of Neurological Surgeons (CNS, USA) Joint Conference, 15-19<sup>th</sup> December, 2010; Jaipur, India.
- 56) AIIMS SPINE CONFERENCE, 12-14<sup>TH</sup> Nov. 2010, New delhi, India
- 57) 12<sup>th</sup> AIIMS Microneurosurgery Workshop, Feb. 2010, New delhi, India.
- 58) International League against Epilepsy ( ILAE) & Indian Epilepsy Society Annual Conference, New delhi, India, 2010.
- 59) Neurocon-2009, 58<sup>th</sup> Annual Meeting of Neurological Society of India, Lucknow, India, December 2009.7)
- 60) MIDAS REX Drill course; New delhi, India, 2009.
- 61) XIV World Congress of Neurological Surgery, 30<sup>th</sup> August -4<sup>th</sup> September, 2009 , Boston, MA, USA.
- 62) Annual Conference of Neurotrauma Society of India, August 2009, Jaipur, India
- 63) 1st Live surgery and Cadaveric Hands On workshop on Minimal access spinal surgery , 23-25<sup>th</sup> July, 2009; New delhi, India.
- 64) 11<sup>th</sup> AIIMS Microneurosurgery Workshop, Feb. 2009, New delhi, India.
- 65) DNACON-2009, XI<sup>th</sup> Annual Conference of Delhi Neurological Association, New delhi, India.
- 66) TRAUMA-2008, International CME & Inaugural Conference of Indian Society of Trauma & Acute Care, November 2008 , **New delhi, India.**
- 67) Neuropedicon-2008, 19<sup>th</sup> Annual Meeting of Indian Society of Pediatric Neurosurgery, Coimbatore, India.
- 68) 10<sup>th</sup> AIIMS Microneurosurgery Workshop, Feb. 2008, New delhi, India.

- 69) WFNS Cadaveric workshop, International Skull Base CME & 9<sup>th</sup> Annual Conference of Skull Base Surgery Society of India, New delhi, India, 2007.
- 70) Neurocon-2007, 56<sup>th</sup> Annual Meeting of Neurological Society of India, Agra, India.
- 71) 1st National **Radiosurgery Update, April 2007, New delhi, India.**
- 72) 9<sup>th</sup> AIIMS Microneurosurgery Workshop, Feb. 2007, New delhi, India.
- 73) 8<sup>th</sup> AIIMS Microneurosurgery Workshop, Feb. 2006, New delhi, India.