



Brief Summary

Prof Poodipedi Sarat Chandra
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AIIMS, New Delhi

Dr Poodipedi Sarat Chandra is a world reputed Neurosurgeon, a Professor and Chairman of the Dept of Neurosurgery. He has an huge operative experience of over 25,000 cases over the past 30 years. He has published in over 500 peer reviewed journals, with over 15,000 citations and an h-index of over 50. His publication in NEJM on Surgery for Drug resistant epilepsy in Children has over 1500 citations, and also has highly cited publications in Nature, Genomics, Neurosurgery, JNS, & Epilepsia. He has over 17 extra-mural research grants with over 6 patents in the area of spine, epilepsy and artificial intelligence. Apart from huge operative experience, in all spectrum of Neurosurgery, he has devised several new surgical techniques, some of the important ones being developing a per-cutaneous “bloodless” hemispherotomy and the DCER technique for severe basilar invagination and atlanto-axial dislocation. He developed minimally invasive techniques for aneurysms (through small eyebrow incisions). He established the Centre of Excellence for Epilepsy and MEG resource facility along with a first of its kind of Neurobiology epilepsy lab at AIIMS. This is the first of its kind of facility in India with dedicated Clinical/research faculty, fellows, PhD’s, and technicians and staff.

Some Details of his professional contributions:

He holds (and has held) several important leadership positions in International & National scientific organizations. Some of these include fellow, National academy of Science, india (NASI); fellow, National academy of medical sciences (NASI), Adjunct professor, National Brain Research Center; Adjunct professor, International Neurosciences Institute (INI); Adjunct professor, Dr Soetomo Medical University, Surabaya, Indonesia; Faculty 1000, International League Against Epilepsy (ILAE); Chair, Epilepsy Surgery, Asiano-oceanic epilepsy surgery, ILAE; member, epilepsy surgery commission, ILAE; President, Indian Epilepsy Society; President, Neuroendoscopic society; Past Presidents, Cerebrovascular society of India, Skull

Base Society of India; Asian Epilepsy Surgery Society; Executive, International society for minimally invasive neurosurgery; member, World academy of Neurological Surgery (on invitation for limited members only), founding member International Epilepsy Surgery Society, Member, Epilepsy Surgery Task Force, ILAE (<https://www.ilae.org/p-sarat-chandra>), Member, Epilepsy Surgery, Developing World, ILAE (<https://www.ilae.org/p-sarat-chandra>)

Awards:

He was recipient of several awards and orations, some include Vasvik industrial award, Career 360 award of excellence; Sun pharma award for best clinical researcher, Neurosciences-20 award (during G20) for best leadership in Neurosciences, Life time achievement award from AO-ILAE, PN Tandon oration (Indian academy of Neurosciences), AD Sehgal oration (Indian Epilepsy Society), JIPMER research day oration, Newton-Dave oration (KGMU foundation day), Life time achievement award, Spinal cord society; Prof AK Banerji oration, Neurotrauma society, apart for Presidential orations in various societies. He conducted clinical grand rounds at UCSF, UCLA, Columbia University, Thomas Jefferson University (USA).

He has contributed towards Guidelines for epilepsy management in India (GEMIND), which is now online. He has also developed epilepsy surgery programs at Indonesia, Morocco and Nepal.

He delivered several Invited lectures (>300) in several International congresses. His talks focus on developing strategies to effectively implement epilepsy surgery in developing countries, developing new techniques especially based on this own experience of >4000 cases. He also advocates the need to amalgamate research with clinical work and the need to enhance epilepsy surgery outreach. He has performed several demonstration surgeries in India and internationally, teaching epilepsy surgeries along with minimally invasive techniques (Mumbai, Surat, various AIIMS, Delhi, Jabalpur) and also in various countries (Kuala Lumpur, Malaysia 2016, Indonesia 2013, 2015, 2017, 2018; Morocco 2015, 2016, 2017, 2018; Kathmandu 2015, 2017, 2018). Most demonstrations his own innovative techniques which have significantly reduced the morbidity and enhanced the efficacy.

Seminal Contributions:

Epilepsy surgery: Clinical contributions and research: He established the first structured and the largest epilepsy surgery in India and has an experience

operating over 4000 cases. The center has advanced capabilities for MEG, Robotic SEEG and also has a neurobiology and genetics lab for epilepsy. He established all complex procedures for epilepsy surgery for the first time in India including hemispherotomies, multi-lobar disconnections, corpus callostomies, invasive EEG, stereo-electroencephalography (SEEG) and post processing algorithms. He developed new techniques- endoscopic hemispherotomy, endoscopic corpus callosotomy and commissurotomy, Robotic radio-frequency thermo-coagulative hemispherotomy (ROTCH), Robotic guided radio-frequency ablation of hypothalamic hamartoma. All these techniques have undergone proof of concept, published, validated and now being practiced in various centers. These techniques have also been published in Engel and Moshe's textbook of Epilepsy (Epilepsy- A comprehensive textbook, volumes 1-3). (<https://www.youtube.com/watch?v=qRUfiPp5csU&t=3604s>) .

Some of his significant clinical research includes the first RCT in pediatric epilepsy (surgery vs medical therapy) published in NEJM, has over 1000 citations and demonstrated a 10-fold improvement of children who underwent surgery vs those who were treated with drugs. It also demonstrated higher rates of epileptic encephalopathy. The study was among the 10 best papers in NEJM for that year and resulted in a global policy change of practice paradigm for children with epilepsy and medical insurance in USA. The study mandated early referral of children not controlled with medical therapy. In addition, he published several studies which changed the policies for pre surgical work up, surgical strategies and outcomes for surgery. He was also the part of several multicentric studies which have had a significant impact for changing policies for epilepsy surgery globally. Some of these include the Hemispherotomy outcome prediction score (HOPS study; only Indian center) and ultra-early surgery for epilepsy in infants (only Indian study).

Epilepsy: Basic sciences research: His key areas of research bio-markers/receptors in abnormal epileptogenic areas (histone deacetylases alterations, altered kynurenine pathway metabolism, IDH-R132H-FAT1-ROS-HIF-1 α signalling pathways, mTOR pathway in FCD's, genome-wide DNA methylation and RNAseq analysis, GABA receptor mediated epileptogenicity, epigenetic regulations, endogenous activity of NMDA receptors, dual networks. He also explored newer biomarkers like KYNA as potential anti-seizure medications, which showed promising potential. He along with his team created AI algorithm for easy interpretation and understanding epileptogenesis.

Complex spine including craniovertebral junction surgeries: Clinical contributions and research: Dr Chandra has performed more than 10000 surgeries in the area of spine and over 1500 cases in craniovertebral junction surgery (CVJ).

His center now is a key National referral center for CVJ surgery. He described the technique of “Distraction, compression, extension & reduction” (DCER). This technique involves a single posterior approach, allowing reduction and correction of deformity of severe basilar invagination, atlanto-axial dislocation, particularly in congenital anomalies. This technique following an ethics approval underwent a proof of concept, was performed in over 500 cases, validated and then published in several peer reviewed high impact factor journals and also into textbooks (including Ramamurti and Tandon’s textbook of neurosurgery). Dr Chandra also patented & developed new implants (including spacers and screws for spine stabilization in CVJ surgery). In the area of vertebral hemangiomas with cord compression, he devised the technique of “Absolute alcohol embolization with short segment spine fixation”. Surgery for this pathology is challenging and “treacherous” to say the least due to highly vascular nature of the tumor. Treatment includes traditional embolization, which may not be effective to completely de-vascularize the tumor. Direct intra-operative embolization allows the tumor becoming completely avascular. Long term follow-up (10 years) also demonstrated that this technique was safe, effective, and tumorcidal preventing any recurrence. It is also highly cost effective (<1 USD vs 3-400,000 INR for traditional embolization!). He published several papers on this technique, after establishing proof concept and validation. Both the above-mentioned techniques are now practiced as standard techniques in several places and have also found their way into standard textbooks..

Basic research in CVJ anomalies: Dr Chandra described for the first time the prevalence of FBN1 gene mutations in patients with congenital cranio-vertebral junction anomalies. Based on further radiological studies, he proposed a unique 2 hit mechanism for etiogenesis of congenital basilar invagination and atlanto-axial dislocation.

Other areas: Dr Chandra has a huge clinical experience in minimally invasive neurosurgery, cerebrovascular surgery and skull base surgery. He described key hole approaches for clipping of aneurysms, endoscopic approaches to intraventricular tumors, pituitary tumors. He developed minimally invasive nasal retractor for easy trans-nasal endoscopic approaches for pituitary tumors. He was one of the first authors to describe a systematic study of post traumatic epilepsy, which has a high incidence in India.

Publications links:

1. https://scholar.google.com/citations?user=C_fTZQsAAAAJ&hl=en.

2. https://journals.lww.com/joss/fulltext/2024/11040/prof_p_sarat_chandra_a_trailblazer_in.9.aspx

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- b. Phone: +91-11-26594888; +91-11-26593291 (Office)
- c. For appointment: +918929874902 (may message as What's app)

Other Details:

1. Fields of sub-specialization:

- a. Epilepsy & Functional neurosurgery (Deep brain stimulation)
- b. Complex spine surgery
- c. Minimally invasive Brain and Spine surgery
- d. Neuronology
- e. Awake surgery and eloquent area surgery
- f. Neuromodulation
- g. Pituitary & suprasellar region surgery
- h. Cerebrovascular surgery
- i. Acoustic schwannomas

2. Other National & International Affiliations:

- a. In Charge of Epilepsy & Functional Neurosurgery program
- b. Adjunct Professor, National Brain Research Center
- c. Adjunct Professor, Dr Soetomo Medical University, Surabaya, Indonesia
- d. Adjunct Professor, International Neurosciences Institute, Hannover, Germany
- e. President, Indian Epilepsy Society
- f. President Elect, Neuroendoscopic Society of India
- g. Past Presidents- Asian Epilepsy Surgery Society, Cerebrovascular Society of India, Skull Base Surgery Society of India
- h. Chair, Asiano-Oceanic Epilepsy Congress- International League Against Epilepsy
- i. Member, Surgical commission and in Charge of Developing countries, International League Against Epilepsy
- j. Founding member, International Epilepsy Surgery Society (IESS)
- k. Executive, International minimally invasive neurosurgery society (ISMINS)
- l. Fellow, National Academy of Science (NASI), India
- m. Fellow, National Academy of Medical Sciences
- n. Post Doc Fellow, UCLA
- o. K Kiffin Penry epilepsy fellow
- p. Past Editor, Neurology India

3. Awards and recognitions:

1. Best outgoing student in MBBS, Pfizer gold medal with Gold medals in Physiology, Surgery and ObG, 1991
2. Awarded travelling fellow-ship to Greifswald Germany 2000 to learn endoscopic techniques.
3. Awarded IBRO fellowship Annual Congress 2001 in Seoul, South Korea.
4. 2002: DBT award for young scientist to do research on "Genetic Basis of Cranio-Vertebral Junction due to congenital anomalies".
5. Granted DBT Fellowship to go for 1 year UCLA 2005-06
6. Ceiba Giegi award for best epilepsy paper, NSI 2011. "Multi Modal Imaging for Epilepsy Surgery".
7. Tadokoro award from the commission of Asian and Oceanian affairs of the International League against Epilepsy, 2006.
8. Penry Mini fellowship 2005 (Wake forest University, USA)
9. San Servolo (Venice) – Granted Scholarship to attend the Epilepsy Summer School (conducted by International League against Epilepsy) – 2011
10. Granted by DBT to set up Center of Excellence for Epilepsy (the first of its kind of project in South East Asia) as a collaborative project between AIIMS & NBRC.
11. Awarded faculty 1000, ILAE (among 1000 best faculty world over)
12. Members of Societies and Important Scientific Bodies.
 - a. Board Member of Neurological Society of India (2012-15)
 - b. Treasurer of Neurological Society of India (2015-18)
 - c. Editor of Neurology India (Impact Factor 2.17) (2018-24)
 - d. Board member, Indian Epilepsy Society (2018-2021)
 - e. President, Indian Epilepsy Society (2023-2025)
 - f. Board Member, Skull Base Surgery Society of India (2016-18)
 - g. Secretary, Skull Base Surgery Society of India (2018-2020)
 - h. President, Skull Base Surgery Society of India (2021)
 - i. Board Member of Asian Epilepsy Surgery Society (2010 to till date)
 - j. President, Asian Epilepsy Surgery Congress, 2010
 - k. Secretary General, Asian Epilepsy Surgery Congress, 2021-2024
 - l. Secretary, Cerebrovascular Society of India, 2019-2020
 - m. President, Cerebrovascular Society of India, 2021
 - n. Board member, International Society of Minimally invasive neurosurgery society (ISMINS)
 - o. VASVIK (Vividhlaxi Audyogik Samshodhan Vikas Kendra Industrial research award Industrial award- 2022
 - p. Career 360 award of excellence- 2023
 - q. JIPMER Research day Oration award, 2018
 - r. Sun Pharma award for being the best researcher in India, 2020
 - s. Fellow, National Academy of Sciences, India
 - t. Chair, Epilepsy Surgery, Asian-Oceanic Region, International League Against Epilepsy (ILAE)
 - u. Chairman, Neurosciences-20, as a part of the G-20 World Summit, held in New Delhi
 - v. Co-Chair, Asian Oceanic Epilepsy Congress, International League against Epilepsy, 2025
 - w. Board member, Society for Brain mapping and therapeutics- SBMT (<https://www.worldbrainmapping.org/p-sarat-chandra/>)
 - x. Received the AIIMS excellence award, 2023
 - y. Elected member of World Academy of Neurological Surgeons (WANS), a prestigious body where members are taken only by invitation.

- z. Spina Cord Society Life Time Achievement Award- 2021
- aa. AOEC/ International League Against Epilepsy (ILAE) Outstanding Life Time Achievement Award- November 2022
- bb. Member, task force for epilepsy surgery, International League Against Epilepsy (ILAE), <https://www.ilae.org/p-sarat-chandra>
- cc. Member, Task force for epilepsy surgery in low resource setting, International League Against Epilepsy (ILAE), <https://www.ilae.org/p-sarat-chandra>
- 13. Editor of journals
 - a. Past Editor of Neurology India (Official journal of Neurological society of India, estt 1953, Impact factor 2.7)

4. Important Orations:

- a. Clinical grand rounds: University California, San Francisco- 2004
- b. Clinical grand rounds: University California, Los Angeles- 2005
- c. AD Sehgal oration, Indian Epilepsy Society- 2016
- d. JIPMER Annual research day oration- 2018
- e. KS Mani Oration, Cochin, 2020
- f. S Dharkar oration, Jaipur, 2021
- g. Prof AK Banerji Oration, Neurotrauma conference, 2021
- h. Prof PN Tandon Oration, Indian Academy of Neurosciences, 2024
- i. Presidential oration- Skull Base Society of India annual Congress- 2021, Jodhpur
- j. Clinical grand rounds, Thomas Jefferson University, USA, 2023
- k. Dave-Newton, KGMU Foundation day Oration award- 2023
- l. Presidential oration- Cerebrovascular Society annual congress, New Delhi- 2023
- m. Prof BS Sharma Oration given at Jabalpur, Super specialty hospital and Govt Medical College, 2022
- n. Presidential oration, IES/AO-ILAE, New Delhi, 2025
- o. Clinical Grand Rounds, University of Columbia, Dept of Neurosurgery, New York on 20th March, 2025. The department of Neurosurgery at Columbia is among the oldest in North America established in the year 1909 by Charles Elsberg. The grand rounds was attended by over 700 students, faculty and staff from the entire University.
- p. Orator for the first BC Bansal held at PGI Rohtak, 2025

5. Adjunct/ Visiting Professors:

- a. Adjunct Professor, NBRC, Manesar
- b. Adjunct Professor, International Neurosciences Institute, Germany
- c. Adjunct Professor, Dr Soetomo Medical University, Surabaya, Indonesia

6. **Intellectual property, technological innovations, Research projects and new surgical techniques:**

1. **Patent and Instrument Designing.**

1. The technique of Distraction, compression, extension and reduction (DCER) along with the relevant instrumentation to perform the technique.

a. Patent US registered number US patent 14/897,156

b. The technique describes a new technique of reducing and aligning severe irreducible basilar invagination and atlanto-axial dislocation through a posterior approach only

c. Reduces the morbidity and operating time by 50%

d. The patent describes the technique and also set of unique instrumentation to perform the procedure using the standard implants

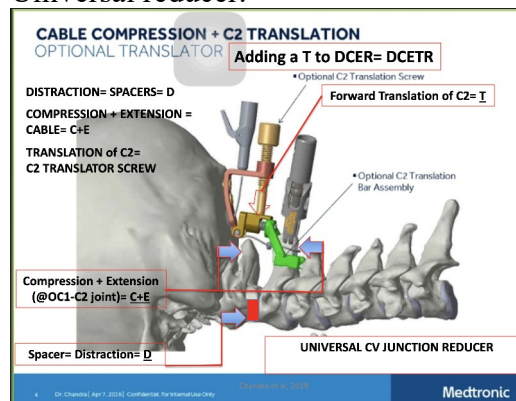
e. Related publications

- i. Chandra PS, Agarwal M. A case of severe basilar invagination and AAD, corrected using the technique of DCER-distraction, compression, extension, reduction (with spacer + universal reducer). *Neurosurg Focus Video*. 2020 Jul 1;3(1):V9. doi: 10.3171/2020.4.FocusVid.20138. PMID: 36285124; PMCID: PMC9542301.
- ii. Chandra PS, Goyal N, Chauhan A, Ansari A, Sharma BS, Garg A. The severity of basilar invagination and atlantoaxial dislocation correlates with sagittal joint inclination, coronal joint inclination, and craniocervical tilt: a description of new indexes for the craniocervical junction. *Neurosurgery*. 2014 Dec;10 Suppl 4:621-9; discussion 629-30. doi: 10.1227/NEU.0000000000000470. PMID: 25320950.
- iii. Chauhan AK, Chandra PS, Goyal N, Chowdhury MR, Banerjee J, Tripathi M, Kabra M. Weak Ligaments and Sloping Joints: A New Hypothesis for Development of Congenital Atlantoaxial Dislocation and Basilar Invagination. *Neurospine*. 2020 Dec;17(4):843-856. doi: 10.14245/ns.2040434.217. Epub 2020 Dec 31. PMID: 33401861; PMCID: PMC7788422.
- iv. Chandra PS, Kumar A, Chauhan A, Ansari A, Mishra NK, Sharma BS. Distraction, compression, and extension reduction of basilar invagination and atlantoaxial dislocation: a novel pilot technique. *Neurosurgery*. 2013 Jun;72(6):1040-53; discussion 1053. doi: 10.1227/NEU.0b013e31828bf342. PMID: 23426148.
- v. Chandra PS, Prabhu M, Goyal N, Garg A, Chauhan A, Sharma BS. Distraction, Compression, Extension, and Reduction Combined With Joint Remodeling and Extra-articular Distraction: Description of 2 New Modifications for Its Application in Basilar Invagination and Atlantoaxial Dislocation: Prospective Study in 79 Cases. *Neurosurgery*. 2015 Jul;77(1):67-80; discussion 80. doi: 10.1227/NEU.0000000000000737. PMID: 25793730.

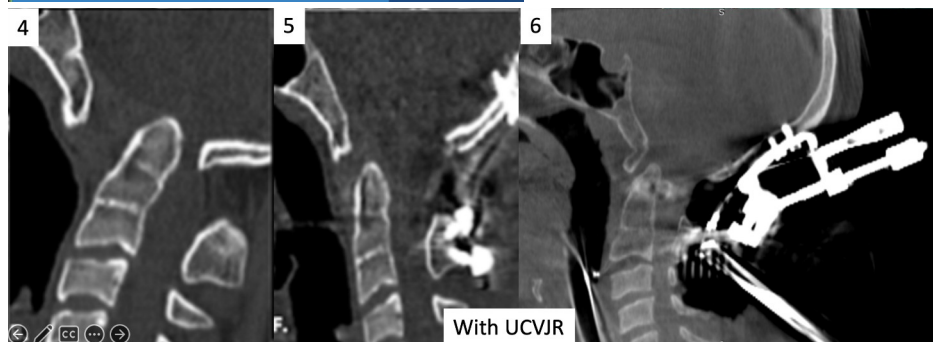
f. Background (provided in layman language): Congenital Basilar invagination with or without atlanto-axial dislocation is a complex and challenging spinal pathology causing high cervical compressive myelopathy leading to progressive quadriparesis, the patient

becoming bed bound and finally dying. Most of the patients are young between the second and the third decades. Traditional surgery involves operating the patient through both trans-oral routes followed by a posterior fixation (thus requiring 2 surgeries) and takes around 8-10 hours. The applicant has devised a unique procedure called DCER, and along with the universal reducer as designed above, allows effective reduction of the deformity and decompression of the spinal cord. The author has used this technique in over 400 cases, and this has been translated into a standard procedure being used worldwide. The procedure is performed through a single surgery lasting just about 3-4 hours.

- g. **Relevant images of the Universal reducer system:** Schematic diagram of the universal reducer system (upper image); its application in surgery (lower image). Fig 4 shows a severe basilar invagination in a 24 year old female, leading to quadriplegia and being bed ridden for 8 months. Fig 4 shows complete reduction of basilar invagination with the use of the reducer. Fig 6 shows the intra-operative X-ray with the application of the Universal reducer.



h.



i.

2. Designed a “disposable endoscopic carpal tunnel release set”.

a. Used it successfully in 200 patients [patent filed]. Patent application no. 306/Del/2009 dt. 17.02.2009

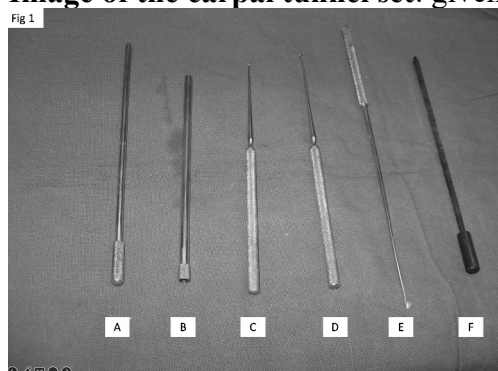
b. In commercial production

c. Device is low cost, made of recycled hard plastic, “use and throw”, costs less than 10 USD for one device

d. Related Publication: Chandra PS, Singh PK, Goyal V, Chauhan AK, Thakkur N, Tripathi M. Early versus delayed endoscopic surgery for carpal tunnel syndrome: prospective randomized study. *World Neurosurg.* 2013 May-Jun;79(5-6):767-72. doi: 10.1016/j.wneu.2012.08.008. Epub 2012 Sep 25. PMID: 23022645.

e. Background (provided in layman language): Carpal tunnel syndrome is a common problem, which causes progressive severe pain in the hand due to compression of the median nerve in the hand. Surgery often involves giving a large incision, followed by release of median nerve. The author has invented a minimally invasive disposable endoscopic carpal tunnel set, whereby this procedure may be performed through 2 single sutures. The surgery may be performed bedside and takes about 15 minutes.

f. Image of the carpal tunnel set: given below in its commercial prototype



3. Patent applied for Kynurenic acid (KNYA) as biomarker for correct localization of epileptogenic zone, (App no TEMP/E-1/27566/2017-DEL, CBR no 24709

a. Background (provided in layman language): Based on several papers and studies performed in the neurobiology epilepsy lab, the authors have patented this molecule for accurate localization of the margins of resection of brain during surgery for drug resistant epilepsy. Till date, there is no accurate localization to define the exact margins of resection. In our studies, as mentioned below, KNYA has been demonstrated to be an important biomarker in the pathway of epileptogenic networks.

b. Publications:

i. Dey S, Dubey V, Dixit AB, Tripathi M, Chandra PS, Banerjee J. Differential Levels of Tryptophan-Kynurenine Pathway Metabolites in the Hippocampus, Anterior Temporal Lobe, and Neocortex in an Animal Model of Temporal Lobe Epilepsy. *Cells.* 2022 Nov 10;11(22):3560. doi: 10.3390/cells11223560. PMID: 36428989; PMCID: PMC9688794.

ii. Dey S, Banerjee Dixit A, Tripathi M, Doddamani RS, Sharma MC, Lalwani S, Chandra PS, Banerjee J. Altered hippocampal kynurenine pathway metabolism contributes to hyperexcitability in human mesial temporal lobe epilepsy-

hippocampal sclerosis. Br J Pharmacol. 2021 Oct;178(19):3959-3976. doi: 10.1111/bph.15534. Epub 2021 Jun 22. PMID: 33990935.

4. **Designed a “special monopolar cautery”**

- a. For use in trans oral surgery for CV Junction anomalies. Used it successfully in more than 100 cases. [patent accepted and filed].
- b. Published in Indian Journal of Neurosurgery
- c. **Background (provided in layman language):** CV junction surgery, especially trans-oral surgery requires working in long narrow corridors. Here, the usual monopolar cautery does not work. Hence, the author has designed a special monopolar attachment, which may be used in long narrow corridors effectively.

5. **A disposable nasal retractor for endoscopic trans-sphenoidal pituitary gland surgery,** Patent Application No. 201911005181; Filing date: 09/02/2019; Patent No.: 552208

- a. **Background (provided in layman language):** Endoscopic pituitary surgery requires the use of endoscopes introduced through both nasal cavities and multiple set of varied complex endoscope instruments. These instruments are expensive and several in number. The author has devised a simple dynamic and flexible nasal retractor, which may be passed along a tunnel created along the trans-septal route to perform the surgery (tumor excision) very effectively with the standard micro-surgical instruments. The below image shows the commercial prototype (upper left), intraoperative use (upper right), its use in a large pituitary tumor (lower left) and the post-operative image showing the total excision (lower, right).



. Selection of optimum frequency bands for detection of epileptiform patterns. Healthc Technol Lett. 2019; <https://pubmed.ncbi.nlm.nih.gov/31839968/> .

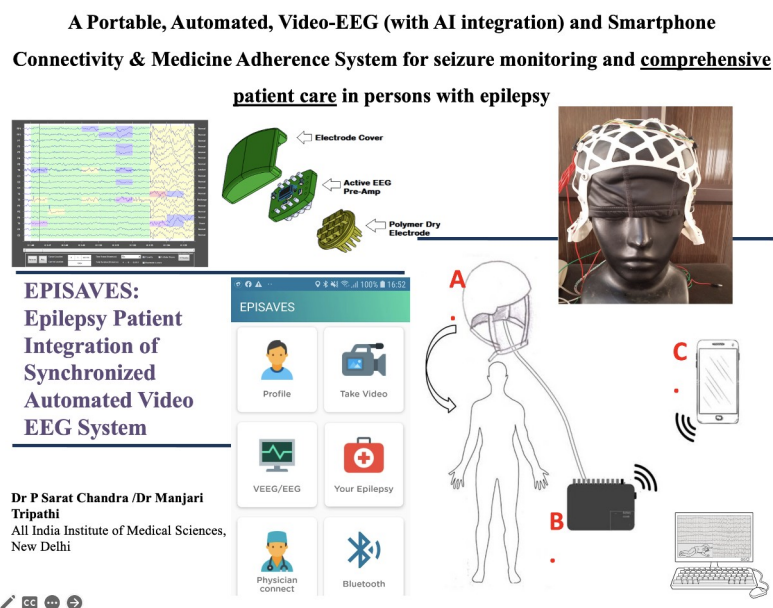
b. **Related publications:**

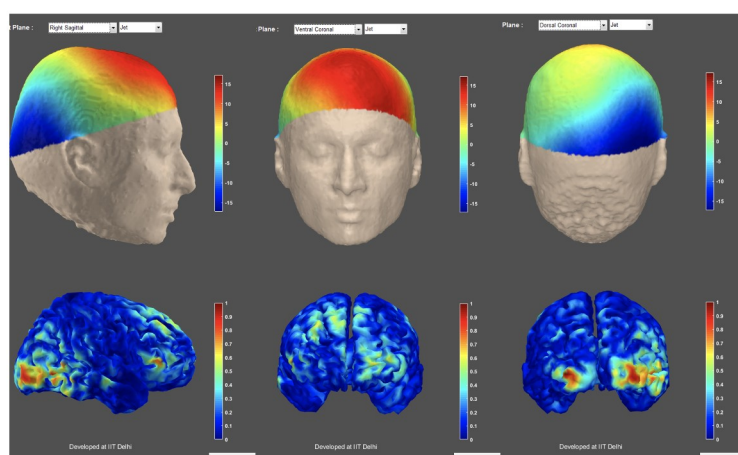
- i. Kaur T, Diwakar A, Kirandeep, Mirpuri P, Tripathi M, Chandra PS, Gandhi TK. Artificial Intelligence in Epilepsy. Neurol India. 2021 May-Jun;69(3):560-566. doi: 10.4103/0028-3886.317233. PMID: 34169842.
- ii. Swami P, Bhatia M, Tripathi M, Chandra PS, Panigrahi BK, Gandhi TK. Selection of optimum frequency bands for detection of epileptiform

patterns. Healthc Technol Lett. 2019 Jul 26;6(5):126-131. doi: 10.1049/htl.2018.5051. PMID: 31839968; PMCID: PMC6849498.

- iii. Mirpuri P, Chandra PP, Samala R, Agarwal M, Doddamani R, Kaur K, Ramanujan B, Chandra PS, Tripathi M. The development and efficacy of a mobile phone application to improve medication adherence for persons with epilepsy in limited resource settings: A preliminary study. Epilepsy Behav. 2021 Mar;116:107794. doi: 10.1016/j.yebeh.2021.107794. Epub 2021 Feb 10. PMID: 33578224.

- c. **Background (provided in layman language):** This device and algorithm was developed with a grant from PSA's office under the heading "Advanced research for epilepsy". Here, an advanced and portable EEG system was developed and an AI algorithm was created for detecting EEG waveforms to create automated reading and generation of reports for EEG.
- d. **Images:** Upper image shows the portable and EEG device, which may be placed over the head. There is no need to apply gel, as these are dry electrodes. The device is connected to an app on smart phone. The data is sent via internet to a central server. Using an AI algorithm, the EEG wave forms are converted into color coded easy to understand algorithms (image below). This device can potentially make EEG recording be done at home not requiring hospital admissions. The data sent to a central server may also be read by a neurologist. In near future, the AI algorithms may generate automated reports even bypassing the need for a neurologist. The device potentially may reduce the huge treatment gap for epilepsy which exists in India (>12 million persons with epilepsy).
- e. **The device and AI algorithm are now in advanced stages for commercial production.**





B. Extramural/ intramural research projects completed and under way

1. *Ongoing Projects*

- a. **An observational study to investigate the gut microbiota composition of patients with drug-refractory epilepsy** (PI-AIIMS Intramural). Funding 50 lakh INR; 60,000 USD.
 - i. Alterations in gut microbiome in patients with drug-resistant epilepsy
- b. **Modulators of $\alpha 4$ -containing GABAA receptors: Potential therapy for focal cortical dysplasia (FCD)** (co-PI ICMR). Funding 50 lakh INR; 60,000 USD.
 - i. Screening and identification of suitable targets for GABAA receptors as a novel therapeutic option for the treatment of FCD
- c. **Deciphering the role of platelets in drug-resistant epilepsy** (co-PI ICMR). Funding 50 lakh INR; 60,000 USD.
 - i. The study will highlight a conceptually new role of platelets and platelet-derived molecules in hyperexcitability and may also indicate a potential new therapeutic approach targeting platelets to prevent and treat epilepsy.
- d. **Role of non-coding RNAs (ncRNAs) in clinicopathological classification and molecular perturbances associated with Focal Cortical Dysplasia (FCD)** (co-PI DBT). Funding 50 lakh INR; 60,000 USD.
 - i. Whole transcriptomic landscape and clinicopathological relevance of transcriptomic alterations in focal cortical dysplasia

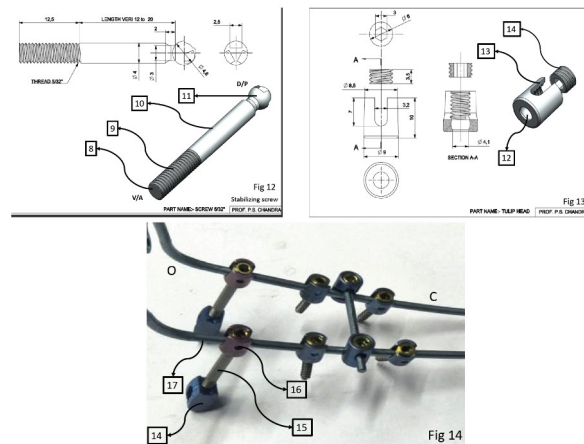
2. *Completed Projects*

- a. **Investigating the role of metabolites and neurotransmitters in abnormal synaptic transmission associated with mesial temporal lobe epilepsy (MTLE) and focal cortical dysplasia (FCD): Possible biomarkers for localization of epileptogenic foci** under "Centre of Excellence for Epilepsy Research Phase II/MEG Resource Facility (Multi-PI project)" (PI – DBT). 50 crores INR; 6 million USD.

- i. Potential metabolic and neurotransmitter biomarkers linked to abnormal synaptic activities in epilepsy identified. These biomarkers hold promise for improving diagnostic accuracy and tailoring individualized treatment plans.
 - ii. Integrated MEG (Magnetoencephalography) and multimodal imaging techniques for precise localization of epileptogenic zones enabling enhanced accuracy in identifying seizure foci in complex cases like MTLE and FCD
 - iii. Patents for portable video-EEG systems with AI-based analysis, and novel surgical methods providing accessible and effective tools for epilepsy management.
- b. **Role of kynurenic acid, a glutamate receptor inhibitor, in hyperexcitability associated with mesial temporal lobe epilepsy (MTLE) (PI- DBT).** Funding 50 lakh INR; 60,000 USD.
 - i. Observed decrease in kynurenic acid levels, which correlated with heightened hyperexcitability in MTLE suggesting that kynurenic acid, which inhibits glutamate receptors, plays a crucial role in controlling neural excitability in this condition.
 - ii. The findings highlighted that alterations in this metabolite could contribute to the pathological hyperexcitability seen in MTLE, offering insights into potential therapeutic targets
- c. **Centre of Excellence in Epilepsy” a collaborative project between NBRC and AIIMS (Phase I) (PI-DBT);** 50 crores INR; 6 million USD.
 - i. Advanced understanding of altered glutamatergic activity and synaptic mechanisms in MTLE patients, especially in drug-resistant cases.
 - ii. Identification of potential biomarkers for drug-resistant epilepsy through RNA sequencing and electrophysiological studies on hippocampal tissues from patients.
 - iii. Enhanced the utility of imaging (e.g., MEG and PET) and intraoperative techniques, improving surgical outcomes for patients with epilepsy
 - iv. Combining clinical neurology, neurosurgery, neuroimaging, and electrophysiology to address the complexities of DRE facilitated accurate localization of epileptogenic zones, crucial for effective surgical intervention
- d. **Advanced research for Epilepsy (PI)-** Grant provided by Principle Scientific Advisor to Govt of India office. Total Grant-5 crores INR; 590,000 USD.
 - i. This project had 4 heads which included [1] development of an AI algorithm for EEG, creating a portable video EEG connected to a server via internet [2] Development of newer anti-epileptic drugs for treating epilepsy [3] Connectomics to understand propagation and spread of epilepsy [4] Multiomics approach to epilepsy.
 - ii. The varied projects were headed by different Co-PI's and explored various strategies to understand and treat epilepsy.
- e. **Deciphering the role of Histone deacetylases (HDACs) in Mesial temporal lobe epilepsy (MTLE) (co-PI – AIIMS Intramural)**
 - i. Key findings: altered expression, activity, and sub-cellular distribution of HDACs in MTLE-HS. These changes were linked to disrupted neurochemical pathways and may provide insights into potential therapeutic targets using HDAC inhibitors.
 - ii. Findings contributed to understanding the epigenetic regulation in epilepsy pathogenesis
- f. **Assessment of mutations in GABRG2 gene from microelectrocorticographically defined areas of hippocampus and amygdala in patients with MTLE with intractable epilepsy (PI – DBT)**

- i. Gamma-2 subunit (GABRG2) gene mutations which have been reported in different epilepsy pathologies may not be playing a significant role in the development of epilepsy or as a susceptibility gene in patients with MTLE in the Indian population.
- g. **Deciphering the role of casein kinase 2 in mesial temporal lobe epilepsy** (supervisor – DST Young Scientist), Funding 50 lakh INR; 60,000 USD.
 - i. This study highlighted that alterations in casein kinase 2 (CK2) levels contribute significantly to the hyperexcitability associated with MTLE. This finding offers valuable insights into the molecular mechanisms underlying MTLE and may guide future research into potential therapeutic targets for this form of epilepsy
- h. **Deciphering the role of ATF3 and TGF β signalling in Mesial Temporal lobe epilepsy (MTLE) patients** funded by Institute Research Grant, All India Institute of Medical Sciences (AIIMS), New Delhi in collaboration with Department of Neurology, AIIMS, New Delhi. Funding 50 lakh INR; 60,000 USD.
 - i. The study identified that ATF3 and TGF β signaling contribute to neuroinflammation and tissue remodeling associated with epilepsy.
 - ii. These findings suggest a potential link between these pathways and the progression of MTLE, offering insights for therapeutic interventions targeting these molecular mechanisms.
- i. **Deciphering the role of GABAA receptor alterations in paediatric and adult patients with focal cortical dysplasia** funded by Institute Research Grant, All India Institute of Medical Sciences (AIIMS), New Delhi in collaboration with Department of Neurosurgery, AIIMS, New Delhi. Funding- 5 lakh INR; 6000 USD.
 - i. The research found that the severity and nature of GABAA receptor-mediated epileptogenicity differ between pediatric and adult patients.
 - ii. Differential configurational changes in GABAA receptors in pediatric and adult patients with FCD.
- j. **Comparative analysis of src kinase mediated high glutamatergic activity in the anterior temporal lobe (ATL) and Hippocampus of the Hippocampal sclerosis patients** funded by Department of Biotechnology, Ministry of Science & Technology, Govt of India. (Collaboration with Dr. Aparna Dixit, Dr. B.R. Ambedkar Center for Biomedical Research, University of Delhi, Delhi); Funding 50 lakh INR; 60,000 USD.
 - i. Glutamatergic hyperactivity mediated by Src kinase exhibited distinct profiles between the ATL and hippocampus, suggesting different excitotoxic mechanisms in these regions.
 - ii. The results point to Src kinase as a potential target for modulating excitotoxicity in drug-resistant epilepsy, especially in HS patients.
- k. **Study of FBN1 gene mutations in patients with congenital non-syndromic basilar invagination and atlanto-axial dislocations.** Funded by Dept of Biotechnology, Funding 50 lakh INR; 60,000 USD.
 - i. The study explored to prevalence of FBN1 gene mutations in congenital cranio-vertebral junction anomalies. This the same gene which gets affected in Marfan's syndrome. It has been seen most of the non-syndromic CVJ's have subtle phenotypic features of Marfan's even though they do not fit exactly into that bracket. Till date, the reason for relatively high prevalence of congenital CVJ is not known in this part of continent.
 - ii. The study demonstrated that there were mutations present in 80% of this cases affecting this region. Based on this and further radiological studies, a unique hypothesis was proposed

- iii. Paper published- Chauhan AK, Chandra PS, Goyal N, Chowdhury MR, Banerjee J, Tripathi M, Kabra M. Weak Ligaments and Sloping Joints: A New Hypothesis for Development of Congenital Atlantoaxial Dislocation and Basilar Invagination. *Neurospine*. 2020 Dec;17(4):843-856. doi: 10.14245/ns.2040434.217. Epub 2020 Dec 31. PMID: 33401861; PMCID: PMC7788422
- l. **Effect of plasma jet on tumor tissues resected from patients with tumor linked refractory epilepsy** funded by Board of Research in Nuclear Sciences, Department of Atomic Energy (DAE), Govt. of India (March 2018- March 2022). Amount- 30 lakhs INR; 30,000 USD)
 - i. **Plasma jet treatment was effective in generating high levels of Reactive Oxygen and Nitrogen Species in glioma tissues.** These reactive species played a significant role in disrupting cellular structures and signaling pathways.
 - ii. Plasma jets induced apoptosis in tumor cells without significant damage to surrounding normal tissues. This highlights its potential as a targeted therapeutic approach.
 - iii. The findings suggest the plasma jet's potential for adjunctive use in treatment.
- m. **"Novel techniques for reduction of basilar invagination and atlanto-axial dislocation and surgical instruments thereof"** Funded by BIRAC- Biotechnology Ignition Grant (BIG)- Ministry of Science and technology, India. (Amount- 50 lakhs INR; 60,000 USD)
 - i. This grant allowed developed of new spine implants customized to perform the technique of DCER
 - ii. Patents for specific spacers to be placed between C1-C2 and new types of screws to hold the spacers in position (see images below)



C. New Surgical techniques devised:

- a. **Endoscopic hemispherotomy:** The applicant for the first time devised this minimally invasive technique for disconnecting a whole hemisphere in children suffering from severe hemispheric epilepsy, now accepted globally.
 - i. **Brief Background:** Hemispherectomy is a major surgical procedure, where a whole hemisphere is removed in patients suffering for drug resistant epilepsy
- b. **Papers:**
 - i. **Chandra PS**, Kurwale N, Garg A, Dwivedi R, Malviya SV, Tripathi M. Endoscopy-assisted interhemispheric transcallosal hemispherotomy: preliminary description of a novel technique. *Neurosurgery*. 2015 Apr;76(4):485-94; discussion 494-5. doi: 10.1227/NEU.0000000000000675. PMID: 25710106.

- ii. **Chandra PS**, Subianto H, Bajaj J, Girishan S, Doddamani R, Ramanujam B, Chouhan MS, Garg A, Tripathi M, Bal CS, Sarkar C, Dwivedi R, Sapra S, Tripathi M. Endoscope-assisted (with robotic guidance and using a hybrid technique) interhemispheric transcalsal hemispherotomy: a comparative study with open hemispherotomy to evaluate efficacy, complications, and outcome. **J Neurosurg Pediatr**. 2019 Feb 1;23(2):187-197. doi: 10.3171/2018.8.PEDS18131. Epub 2018 Nov 9. PMID: 30497135.
- iii. **Chandra PS**, Subianto H, Bajaj J, Girishan S, Doddamani R, Ramanujam B, Chouhan MS, Garg A, Tripathi M, Bal CS, Sarkar C, Dwivedi R, Sapra S, Tripathi M. Endoscope-assisted (with robotic guidance and using a hybrid technique) interhemispheric transcalsal hemispherotomy: a comparative study with open hemispherotomy to evaluate efficacy, complications, and outcome. **J Neurosurg Pediatr**. 2019 Feb 1;23(2):187-197. doi: 10.3171/2018.8.PEDS18131. Epub 2018 Nov 9. PMID: 30497135.
- iv. **Chandra SP**, Tripathi M. Endoscopic epilepsy surgery: Emergence of a new procedure. **Neurol India**. 2015 Jul-Aug;63(4):571-82. doi: 10.4103/0028-3886.162056. PMID: 26238894.
- v. Baumgartner JE, Blount JP, Blauwblomme T, **Chandra PS**. Technical descriptions of four hemispherectomy approaches: From the Pediatric Epilepsy Surgery Meeting at Gothenburg 2014. **Epilepsia**. 2017 Apr;58 Suppl 1:46-55. doi: 10.1111/epi.13679. PMID: 28386922.
- c. **Endoscopic corpus callosotomy**: The applicant described this technique for the first time, where a corpus callosal sectioning may be performed in patients suffering from LG syndrome (with severe epilepsy)
- d. Papers:
 - i. **Chandra SP**, Kurwale NS, Chibber SS, Banerji J, Dwivedi R, Garg A, Bal C, Tripathi M, Sarkar C, Tripathi M. Endoscopic-Assisted (Through a Mini Craniotomy) Corpus Callosotomy Combined With Anterior, Hippocampal, and Posterior Commissurotomy in Lennox-Gastaut Syndrome: A Pilot Study to Establish Its Safety and Efficacy. **Neurosurgery**. 2016 May;78(5):743-51. doi: 10.1227/NEU.0000000000001060. PMID: 26474092.
- e. **DCER for basilar invagination and atlanto-axial dislocation**: The applicant has devised this unique technique now universally accepted which allows surgery for severe basilar invagination and atlanto-axial dislocation through a single staged posterior approach only. Earlier, a two staged procedure was required, one through the trans-oral route and the other through the posterior route. Not only the described technique of DCER is very safe and effective but also cuts down the operative time by >50%.
 - i. **Papers**:
 1. **Chandra PS**, Kumar A, Chauhan A, Ansari A, Mishra NK, Sharma BS. Distraction, compression, and extension reduction of basilar invagination and atlantoaxial dislocation: a novel pilot technique. **Neurosurgery**. 2013 Jun;72(6):1040-53; discussion 1053. doi: 10.1227/NEU.0b013e31828bf342. PMID: 23426148.
 2. Chauhan AK, **Chandra PS**, Goyal N, Chowdhury MR, Banerjee J, Tripathi M, Kabra M. Weak Ligaments and Sloping Joints: A New Hypothesis for Development of Congenital Atlantoaxial Dislocation and Basilar Invagination. **Neurospine**. 2020 Dec;17(4):843-856. doi: 10.14245/ns.2040434.217. Epub 2020 Dec 31. PMID: 33401861; PMCID: PMC7788422.

3. **Chandra PS**, Goyal N, Chauhan A, Ansari A, Sharma BS, Garg A. The severity of basilar invagination and atlantoaxial dislocation correlates with sagittal joint inclination, coronal joint inclination, and craniocervical tilt: a description of new indexes for the craniovertebral junction. *Neurosurgery*. 2014 Dec;10 Suppl 4:621-9; discussion 629-30. doi: 10.1227/NEU.0000000000000470. PMID: 25320950.
 4. **Chandra PS**, Agarwal M. A case of severe basilar invagination and AAD, corrected using the technique of DCER-distraction, compression, extension, reduction (with spacer + universal reducer). *Neurosurg Focus Video*. 2020 Jul 1;3(1):V9. doi: 10.3171/2020.4.FocusVid.20138. PMID: 36285124; PMCID: PMC9542301.
- f. **Absolute Alcohol embolization with instrumented fixation for vertebral body hemangiomas:** These are treacherous lesion with high risk of intra-operative bleeding. The applicant has described an innovative technique of using absolute alcohol injection into the vertebral body. Long term follow up of this technique (>20 years) showed that this technique was very safe and effective and also prevented the recurrence of lesions. As compared to expensive embolization techniques (costing >5 lakhs INR), this technique is very inexpensive (cost of absolute alcohol being a few INR only).
- i. **Papers:**
 1. **Chandra SP**, Singh P, Kumar R, Agarwal D, Tandon V, Kale SS, Sarkar C. Long-term outcome of treatment of vertebral body hemangiomas with direct ethanol injection and short-segment stabilization. **Spine J**. 2019 Jan;19(1):131-143. doi: 10.1016/j.spinee.2018.05.015. Epub 2018 Jun 8. PMID: 29890263.
 2. Singh P, Mishra NK, Dash HH, Thyalling RK, Sharma BS, Sarkar C, **Chandra PS**. Treatment of vertebral hemangiomas with absolute alcohol (ethanol) embolization, cord decompression, and single level instrumentation: a pilot study. **Neurosurgery**. 2011 Jan;68(1):78-84; discussion 84. doi: 10.1227/NEU.0b013e3181fc60e9. PMID: 21099721.
 3. Singh PK, **Chandra SP**, Agrawal M, Sawarkar D, Kumar R, Kumar A, Verma S, Kale SS. Long-Term Outcome of Surgical Management in Symptomatic Pediatric Vertebral Hemangiomas Presenting With Myelopathy. **Neurosurgery**. 2020 Nov 16;87(6):1240-1251. doi: 10.1093/neuros/nyaa273. PMID: 32629465.
- g. **Robotic thermocoagulative hemispherotomy (ROTCH):** This is first of its kind of bloodless technique where through robotic guidance, a radio-frequency thermocoagulation is done to perform hemispheric disconnection.
- i. **Papers:**
 1. **Chandra PS**, Doddamani R, Girishan S, Samala R, Agrawal M, Garg A, Ramanujam B, Tripathi M, Bal C, Nehra A, Tripathi M. Robotic thermocoagulative hemispherotomy: concept, feasibility, outcomes, and safety of a new "bloodless" technique. **J Neurosurg Pediatr**. 2021 Apr 2;27(6):688-699. doi: 10.3171/2020.10.PEDS20673. PMID: 33799306.
- h. **Robotic radio-frequency ablation for hypothalamic hamartomas:** The first of its kind of technique described for treatment of hypothalamic hamartoma presenting with gelastic epilepsy.
- i. **Paper:**

1. Tandon V, Chandra PS, Doddamani RS, Subianto H, Bajaj J, Garg A, Tripathi M. Stereotactic Radiofrequency Thermocoagulation of Hypothalamic Hamartoma Using Robotic Guidance (ROSA) Coregistered with O-arm Guidance-Preliminary Technical Note. *World Neurosurg.* 2018 Apr;112:267-274. doi: 10.1016/j.wneu.2018.01.193. Epub 2018 Feb 3. PMID: 29408592.
2. Doddamani RS, Chandra PS, Kota R, Ahemad N, Tripathi M. Robotic-guided radiofrequency ablative disconnection of hypothalamic hamartoma. *Neurosurg Focus Video.* 2024 Jul 1;11(1):V19. doi: 10.3171/2024.4.FOCVID2450. PMID: 38957419; PMCID: PMC11216425.

Some Seminal Publications:

All publications may be accessed from here: (https://scholar.google.com/citations?user=C_fTZQsAAAAJ&hl=en).

1. Dwivedi R, Ramanujam B, **Chandra PS**, Sapra S, Gulati S, Kalaivani M, Garg A, Bal CS, Tripathi M, Dwivedi SN, Sagar R, Sarkar C, Tripathi M: Surgery for Drug-Resistant Epilepsy in Children. **N Engl J Med** 377:1639-1647, 2017. Impact factor **96.2**- First RCT in Pediatric Epilepsy surgery in the world literature, first paper from India to be published in NEJM with all Indian authors with the study fully conceived and designed in India. I was the main and only surgeon to contribute the surgical cases.
2. Banerjee J, BanerjeeDixit A, Srivastava A, Ramanujam B, Kakkar A, Sarkar C, Tripathi M, **Chandra PS (corresponding author)**. Altered glutamatergic tone reveals two distinct resting state networks at the cellular level in hippocampal sclerosis. **Sci Rep (Nature)**. 2017 Mar 23;7(1):319. **Impact factor: 5.578**. This is seminal paper published in Nature (Sc reports) which for the first time in literature has demonstrated dual networks at a cellular level for generating epileptogenesis both from hippocampus and anterior temporal lobe. This is unlike the previous known literature where it was thought the epileptogenesis in hippocampal sclerosis originated only from the hippocampus. This paper throws light for the first time that an anterior temporal lobectomy with amygdalo-hippocampectomy may have a better outcome than selective amygdalo-hippocampectomy.
3. Baumgartner JE, Blount JP, Blauwblomme T, **Chandra PS**. Technical descriptions of four hemispherectomy approaches: From the Pediatric Epilepsy Surgery Meeting at Gothenburg 2014. **Epilepsia**. 2017 Apr;58 Suppl 1:46-55. **Impact factor: 5.6**: This paper provides technical description of the surgical technique “endoscopic hemispherotomy” developed by the author.
4. **Chandra PS**, Bal C, Garg A, Gaikwad S, Prasad K, Sharma BS, Sarkar C, Singh MB, Padma VM, Tripathi M. Surgery for medically intractable epilepsy due to postinfectious etiologies. **Epilepsia**. 2010. **Impact factor: 5.2**: This is the first ever study published in literature describing efficacy of epilepsy surgery for post infectious pathologies
5. Banerjee J, BanerjeeDixit A, Srivastava A, Ramanujam B, Kakkar A, Sarkar C, Tripathi M, **Chandra PS [corresponding author]**. Altered glutamatergic tone reveals two distinct resting state networks at the cellular level in hippocampal sclerosis. **Sci Rep. Nature** 2017 Mar 23;7(1):319. doi: 10.1038/s41598-017-00358-7. PubMed PMID: 28336943. **Impact factor: 5.5**. This paper for the first time in literature has demonstrated 2 neuronal networks in patients with hippocampal sclerosis in both hippocampus and extra-hippocampal

regions providing evidence for the first time in literature on molecular basis for standard anterior temporal lobectomy with amygdalo-hippocampectomy.

6. **Chandra PS**, Goyal N, Chauhan A, Ansari A, Sharma BS, Garg A. The severity of basilar invagination and atlantoaxial dislocation correlates with sagittal joint inclination, coronal joint inclination, and craniocervical tilt: a description of new indexes for the craniovertebral junction. **Neurosurgery (Official journal of Congress of Neurological Surgeons, USA)**. 2014 Suppl 4:621-9. **Impact factor: 5.3**
7. **Chandra PS**, Kumar A, Chauhan A, Ansari A, Mishra NK, Sharma BS. Distraction, compression, and extension reduction of basilar invagination and atlantoaxial dislocation: a novel pilot technique. **Neurosurgery (Official journal of Congress of Neurological Surgeons, USA)**.. 2013 Jun;72(6):1040-53; discussion 1053. **Impact factor: 4.9.**
8. **Chandra PS**, Prabhu M, Goyal N, Garg A, Chauhan A, Sharma BS. Distraction, Compression, Extension, and Reduction Combined With Joint Remodeling and Extra-articular Distraction: Description of 2 New Modifications for Its Application in Basilar Invagination and Atlantoaxial Dislocation: Prospective Study in 79 Cases. **Neurosurgery (Official journal of Congress of Neurological Surgeons, USA)**.. 2015 Jul;77(1):67-80; discussion 80. **Impact factor: 5.3. Papers 6.5 & 6.6** describe for the first time a new surgical technique for basilar invagination and atlanto-axial dislocation through a posterior only approach. The technique now performed in over 200 cases, may be used even in very severe cases of cranio-vertebral junction anomalies. This technique was demonstrated by the author is several live workshops both in India and abroad and the author also gave several lectures both in India and abroad. This technique has lead to 2 International patents and in terms of patient benefit has demonstrated 50% less morbidity and has cut down the hospital stay by more than half as compared to the traditional trans-oral excision of odontoid and posterior fixation. *Paper 6.6 was the first paper from India to be ever published in Neurosurgery as editor's choice.*
9. **Chandra PS**, Kurwale N, Garg A, Dwivedi R, Malviya SV, Tripathi M. Endoscopy-assisted interhemispheric transcalsal hemispherotomy: preliminary description of a novel technique. **Neurosurgery (Official journal of Congress of Neurological Surgeons, USA)**.. 2015 Apr;76(4):485-94; discussion 494-5. **Impact factor: 4.9. The paper for the first time in literature describes a new surgical technique of performing hemispheric disconnection using an endoscope.** This technique was developed by the author at AIIMS and was performed as live surgery in many places in India and abroad (Malaysia, Morocco). The author also spoke about this technique in several lectures both in India and abroad. The technique provides a minimally invasive approach for a highly major surgical procedure usually performed in children, and thus reducing blood loss, hospital stay, morbidity and mortality significantly by more than 50%. The whole surgery is performed through a small incision of 4 cm size.
 - a. (also see: <https://www.youtube.com/watch?v=FmO9NVG1dhk>,
 - b. <https://www.youtube.com/watch?v=FmO9NVG1dhk>,
<https://www.youtube.com/watch?v=h5RbjOIRDYs>)
10. **Chandra PS**, Kurwale NS, Chibber SS, Banerjee J, Dwivedi R, Garg A, Bal C, Tripathi M, Sarkar C, Tripathi M. Endoscopic-Assisted (Through a Mini Craniotomy) Corpus Callosotomy Combined With Anterior, Hippocampal, and Posterior Commissurotomy in Lennox-Gastaut Syndrome: A Pilot Study to Establish Its Safety and Efficacy. **Neurosurgery (Official journal of Congress of Neurological Surgeons, USA)**...

(2016)78(5):743-51. **Impact factor: 4.9:** The author has described this surgical technique for the first time in literature where a complete corpus callosotomy along with anterior, hippocampal and posterior commissurotomy has been described through a small incision of 3 cm size in patients who suffer from severe epilepsy with Lenox-Gestaut syndrome. Such a technique along with the combination of corpus callosotomy with commissurotomy has been described for the first time literature and has been shown to be significantly more efficacious than corpus callosotomy alone. In addition, the use of endoscopic technique has reduced the size of incision on cranium to just 3 cm size.

11. Chandra PS, Doddamani R, Girishan S, Samala R, Agrawal M, Garg A, Ramanujam B, Tripathi M, Bal C, Nehra A, Tripathi M. Robotic thermocoagulative hemispherotomy: concept, feasibility, outcomes, and safety of a new "bloodless" technique. J Neurosurg Pediatr. 2021- A new bloodless technique described for the first time for hemispherotomy
12. **Chandra PS**, Tej M, Sawarkar D, Agarwal M, Doddamani RS. Fronto-Orbital Variant of Supraorbital Keyhole Approach for Clipping Ruptured Anterior Circulation Aneurysms (f-Sokha). Neurol India. 2020 Sep-Oct;68(5):1019-1027. doi: 10.4103/0028-3886.294827. PMID: 33109845.
13. **Chandra SP**, Singh P, Kumar R, Agarwal D, Tandon V, Kale SS, Sarkar C. Long-term outcome of treatment of vertebral body hemangiomas with direct ethanol injection and short-segment stabilization. Spine J. 2019 Jan;19(1):131-143. doi: 10.1016/j.spinee.2018.05.015. Epub 2018 Jun 8. PMID: 29890263. An innovative technique described by Dr Chandra

COMPLETE PUBLICATIONS:

b. Chapters in important books

- i. Endoscopic-assisted hemispherotomy: Chandra PS et al, In Pediatric Epilepsy Surgery (Oguz Cataltepe, George I Jallo, Second Edition, Thieme publications, 2021
- ii. *Endoscopic assisted corpus callosotomy with commissurotomy: Chandra PS et al, In Pediatric Epilepsy Surgery (Oguz Cataltepe, George I Jallo, Second Edition, Thieme publications, 2021
- iii. *Endoscopic assisted hemispherotomy, Chandra PS et al, In Operative technique in Epilepsy Surgery (Gordon Baltuch, Arthur Cukiert), Thieme publications, 2019
- iv. Hemispherotomy and Multi-lobar resections- P Sarat Chandra & George Dorfmueller, In Epilepsy: Comprehensive textbook by Engel Jerome, Wolters Kluwer, 2024
- v. Post Traumatic Epilepsy- P Sarat Chandra & Manjari Tripathi, In Epilepsy: Comprehensive textbook by Engel Jerome, Solomon Moshe; Wolters Kluwer, 2024
- vi. Brain tumors, P Sarat Chandra & PN Tandon, In API Textbook of Medicine, Jaypee publications, 2024
- vii. Evolution of neurosurgical techniques. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications, 2025
- viii. History of microneurosurgery. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications.

- ix. Evolution of Neurosciences in India- A Brief overview. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications.
- x. Evolution of Neurosciences-A historical review with brief biographies of some of its selected pioneers. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications.
- xi. Evolution of neurosciences: Pre Hippocratic and period of Hippocrates. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xii. Evolution of microstructural, functional and imaging concepts of neurons. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xiii. Electrodiagnosis. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xiv. Injuries of cranio-vertebral junction and upper cervical spine. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xv. Cysticercosis. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xvi. AIDS and the neurosurgeon. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xvii. Clipology for clipping of aneurysms. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xviii. Intra-operative rupture of aneurysms and its treatment. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xix. Brain stem gliomas. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xx. Trigeminal schwannomas. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xxi. Robotic neurosurgery. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xxii. Neural transplantation and stem cell. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xxiii. Surgery for epilepsy: General principles. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xxiv. Stereoelectroencephalography. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xxv. Electrocorticography. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xxvi. Hemispheric and multi-lobar resections and disconnections. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.

- xxvii. Corpus callostomy. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xxviii. Surgery for hypothalamic hamartoma. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xxix. Neuromodulation. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xxx. Post traumatic epilepsy. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xxxi. Long term surgical outcomes of epilepsy surgery. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xxxii. Establishing an epilepsy surgery program. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xxxiii. Technique of DCER in CV Junction surgery. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xxxiv. Endoscopic management of colloid cyst. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xxxv. Endoscopic carpal tunnel release. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xxxvi. Endoscopic techniques in epilepsy surgery. In Textbook of Neurosurgery, Ramamurti and Tandon; P Sarat Chandra, Sanjay Behari, MC Vasudevan, Anil Pande, Jaypee publications. 2025.
- xxxvii. Chandra, Poodipedi Sarat, and Manjari Tripathi. "Minimally invasive hemispherotomy: endoscopic, radiofrequency and robotic techniques." *Pediatric Epilepsy Surgery Techniques*. Academic Press, 2025. 235-271.
- xxxviii. Srivastava, A., Dixit, A. B., Tripathi, M., Sarat Chandra, P., & Banerjee, J. (2024). Quantification of Neuroinflammatory Markers in Blood, Cerebrospinal Fluid, and Resected Brain Samples Obtained from Patients. In *Neuroprotection: Method and Protocols* (pp. 67-79). New York, NY: Springer US.
- xxxix. Dubey, V., Dixit, A. B., Tripathi, M., Sarat Chandra, P., & Banerjee, J. (2024). Quantification of neuronal dendritic spine density and lengths of apical and basal dendrites in temporal lobe structures using golgi-cox staining. In *Neuroprotection: Method and Protocols* (pp. 57-66). New York, NY: Springer US.
- xl. Chandra, P. S., Kota, R. C., & Tripathi, M. (2022). Newer Surgical Approaches and Techniques in Epilepsy. *IAN Reviews in Neurology 2022: Epilepsy-Innovations and Advances*, 161.
- xli. Dheer, A., Dixit, A. B., Tripathi, M., Chandra, P. S., & Banerjee, J. (2022). Glia in Epilepsy: An Overview. *The Biology of Glial Cells: Recent Advances*, 323-351.

***New Techniques devised by the author**

c. Editors of Books

- i. Textbook of Neurosurgery- By Ramamurthi and Tandon- One of the core editors of the textbook, New Book in publication, expected to be out in mid 2025. This textbook is the core textbook for residents of Neurosurgery. (in press)
- ii. Speech, Language, and Human Brain. PN Tandon and P Sarat Chandra. Salubri publications, 2025 (in press)

- iii. Evolution of Neurosciences. PN Tandon and P Sarat Chandra. Wolters kluwers, 2021

Complete List of publications in Peer reviewed journals

Year of 2024

1. Kumarasamy S, Garg K, Garg A, Sharma MC, Singh M, **Chandra PS**, Kale SS. Extra- skeletal intracranial mesenchymal chondrosarcoma: systematic-literature review. Childs Nerv Syst. 2024 May 19. doi: 10.1007/s00381-024-06452-2. Epub ahead of print. PMID: 38762839.
2. Shanker OR, Kumar S, Banerjee J, Tripathi M, **Chandra PS**, Dixit AB. Role of non-receptor tyrosine kinases in epilepsy: significance and potential as therapeutic targets. Expert Opin Ther Targets. 2024 Apr 21:1-12. doi: 10.1080/14728222.2024.2343952. Epub ahead of print. PMID: 38629385.
3. Paul D, Dixit AB, Srivastava A, Banerjee J, Tripathi M, Suman P, Doddamani R, Lalwani S, Siraj F, Sharma MC, **Chandra PS**, Singh RK. Altered expression of activating transcription factor 3 in the hippocampus of patients with mesial temporal lobe epilepsy-hippocampal sclerosis (MTLE-HS). Int J Neurosci. 2024 Jun;134(3):267-273. doi: 10.1080/00207454.2022.2100777. Epub 2022 Jul 21. PMID: 35822277.
4. Dubey V, Dixit AB, Tripathi M, **Sarat Chandra P**, Banerjee J. Quantification of Neuronal Dendritic Spine Density and Lengths of Apical and Basal Dendrites in Temporal Lobe Structures Using Golgi-Cox Staining. Methods Mol Biol. 2024;2761:57-66. doi: 10.1007/978-1-0716-3662-6_5. PMID: 38427229.
5. Drexler R, Ricklefs FL, Ben-Haim S, Rada A, Wörmann F, Cloppenburg T, Bien CG, Simon M, Kalbhenn T, Colon A, Rijkers K, Schijns O, Borger V, Surges R, Vatter H, Rizzi M, de Curtis M, Didato G, Castelli N, Carpentier A, Mathon B, Yasuda CL, Cendes F, **Chandra PS**, Tripathi M, Clusmann H, Delev D, Guenot M, Haegelen C, Catenoix H, Lang J, Hamer H, Brandner S, Walther K, Hauptmann JS, Jeffree RL, Kegele J, Weinbrenner E, Naros G, Velz J, Krayenbühl N, Onken J, Schneider UC, Holtkamp M, Rössler K, Spyrtantis A, Strzelczyk A, Rosenow F, Stodieck S, Alonso-Vanegas MA, Wellmer J, Wehner T, Dührsen L, Gempt J, Sauvigny T. Defining benchmark outcomes for mesial temporal lobe epilepsy surgery: A global multicenter analysis of 1119 cases. Epilepsia. 2024 Feb 24. doi: 10.1111/epi.17923. Epub ahead of print. PMID: 38400789.
6. Puri R, Bansal M, Mehta V, Duell PB, Wong ND, Iyengar SS, Kalra D, Nair DR, Nanda NC, Narula J, Deedwania P, Yusuf J, Dalal JJ, Shetty S, Vijan VM, Agarwala R, Kumar S, Vijay K, Khan A, Wander GS, Manoria PC, Wangnoo SK, Mohan V, Joshi SR, Singh B, Kerkar P, Rajput R, Prabhakar D, Zargar AH, Saboo B, Kasliwal RR, Ray S, Bansal S, Rabbani MU, Chhabra ST, **Chandra PS**, Bardoloi N, Kavalipati N, Sathyamurthy I, Mahajan K, Pradhan A, Khanna NN,

- Khadgawat R, Gupta P, Chag MC, Gupta A, Murugathan A, Narasingan SN, Upadhyaya S, Mittal V, Melinkeri RP, Yadav M, Mubarak MR, Pareek KK, Dabla PK, Nanda R, Mohan JC. Lipid Association of India 2023 update on cardiovascular risk assessment and lipid management in Indian patients: Consensus statement IV. *J Clin Lipidol*. 2024 Feb 8;S1933-2874(24)00006-0. doi: 10.1016/j.jacl.2024.01.006. Epub ahead of print. PMID: 38485619.
7. Kumarasamy S, Sawarkar DP, Singh PK, Kumar R, **Chandra PS**, Kale SS. Cervical kyphosis correction in Marfan syndrome: our experience and literature review. *Childs Nerv Syst*. 2024 Feb;40(2):495-502. doi: 10.1007/s00381-023-06046-4. Epub 2023 Jul 1. PMID: 37391518.
 8. Murlidharan S, Singh PK, **Chandra PS**, Agarwal D, Kale SS. Surgical challenges and functional outcomes in dystrophic cervical kyphosis in Neurofibromatosis -1: an institutional experience. *Spine Deform*. 2022 May;10(3):697-707. doi: 10.1007/s43390-021-00465-6. Epub 2022 Jan 20. PMID: 35050492.
 9. Aggarwal Y, Vaid A, Visani A, Rane R, Joseph A, Mukherjee S, Tripathi M, **Chandra PS**, Doddamani R, Dixit AB, Banerjee J. Cold atmospheric plasma (CAP) treatment increased reactive oxygen and nitrogen species (RONS) levels in tumor samples obtained from patients with low-grade glioma. *Biomed Phys Eng Express*. 2024 Jan 31;10(2). doi: 10.1088/2057-1976/ad20a9. PMID: 38241730.
 10. Bajaj J, **Chandra SP**, Ramanujam B, Subianto H, Girishan S, Doddamani R, Agrawal M, Samala R, Dwivedi R, Chaudhary K, Garg A, Tripathi M, Bal CS, Nehra A, Sharma MC, Tripathi M. Comparative Analysis of Hemispherotomy in Adults versus Children- A Prospective Observational Series. *Neurol India*. 2024 Jan 1;72(1):69-73. doi: 10.4103/neuroindia.NI_299_20. Epub 2024 Feb 29. PMID: 38443004.
 11. **Chandra PS**, Doddamani R, Girishan S, Samala R, Agrawal M, Garg A, Ramanujam B, Tripathi M, Bal C, Nehra A, Tripathi M. Robotic thermocoagulative hemispherotomy: concept, feasibility, outcomes, and safety of a new "bloodless" technique. *J Neurosurg Pediatr*. 2021 Apr 2;27(6):688-699. doi: 10.3171/2020.10.PEDS20673. PMID: 33799306.
 12. Doddamani R, **Chandra PS**. Intraoperative Rupture of Aneurysms: Better Avoid than Mitigate. *Neurol India*. 2024 Jan 1;72(1):2-3. doi: 10.4103/neurol-india.neurol-india_79_24. Epub 2024 Feb 29. PMID: 38442992.
 13. Weil AG, Dimentberg E, Lewis E, Ibrahim GM, Kola O, Tseng CH, Chen JS, Lin KM, Cai LX, Liu QZ, Lin JL, Zhou WJ, Mathern GW, Smyth MD, O'Neill BR, Dudley R, Ragheb J, Bhatia S, Delev D, Ramantani G, Zentner J, Wang AC, Dorfer C, Feucht M, Czech T, Bollo RJ, Issabekov G, Zhu H, Connolly M, Steinbok P, Zhang JG, Zhang K, Hidalgo ET, Weiner HL, Wong-Kissel L, Lapalme-Remis S, Tripathi M, Sarat **Chandra P**, Hader W, Wang FP, Yao Y, Champagne PO, Brunette-Clément T, Guo Q, Li SC, Budke M, Pérez-Jiménez MA, Raftopoulos C, Finet P, Michel P, Schaller K, Stienen MN, Baro V, Cantillano Malone C, Pociecha J, Chamorro N, Muro VL, von Lehe M, Vieker S, Oluigbo C, Gaillard WD, Al Khateeb M, Al Otaibi F, Krakenbühl N, Bolton J, Pearl PL, Fallah A. Development of an online calculator for the prediction of seizure freedom following pediatric hemispherectomy using the Hemispherectomy Outcome Prediction Scale (HOPS). *Epilepsia*. 2024 Jan;65(1):46-56. doi: 10.1111/epi.17689. Epub 2023 Nov 16. PMID: 37347512.

14. Srivastava A, Rajput P, Tripathi M, **Chandra PS**, Doddamani R, Sharma MC, Lalwani S, Banerjee J, Dixit AB. Integrated Proteomics and Protein Co-expression Network Analysis Identifies Novel Epileptogenic Mechanism in Mesial Temporal Lobe Epilepsy. *Mol Neurobiol*. 2024 Apr 30. doi: 10.1007/s12035-024-04186-5. Epub ahead of print. PMID: 38687446.
15. Priya, Yadav N, Anand S, Banerjee J, Tripathi M, **Chandra PS**, Dixit AB. The multifaceted role of Wnt canonical signalling in neurogenesis, neuroinflammation, and hyperexcitability in mesial temporal lobe epilepsy. *Neuropharmacology*. 2024 Jun 15;251:109942. doi: 10.1016/j.neuropharm.2024.109942. Epub 2024 Apr 1. PMID: 38570066.
16. Phalak M, Sharma R, Bora S, Katiyar V, Ganeshkumar A, Khan N, Tandon V, Garg K, Satyarthee G, Gupta D, Agrawal D, **Chandra SP**, Kale SS. Re-Admissions of 'Unknown' Traumatic Brain Injury Patients - Inadequacy of Rehabilitative Services in a Developing Country. *Neurol India*. 2024 Mar 1;72(2):304-308. doi: 10.4103/ni.ni_706_21. Epub 2024 Apr 30. PMID: 38691474.
17. Sharma R, Meena R, Ganeshkumar A, Narwal A, Doddamani R, Singh M, **Chandra SP**. Rathke's Cleft Cyst and Craniopharyngioma: A Continuum of the Same Spectrum? Insights from an Interesting Case and Previous Literature. *Neurol India*. 2024 Mar 1;72(2):403-407. doi: 10.4103/ni.ni_1210_21. Epub 2024 Apr 30. PMID: 38691485.
18. **Chandra PS**. The Management of Incidental Carotid Cave Aneurysms: Is this Really a Schrodinger's Cat? *Neurol India*. 2024 Mar 1;72(2):240-241. doi: 10.4103/neurol-india.neurol-india_82_24. Epub 2024 Apr 30. PMID: 38691467.
19. Kumarasamy S, Sawarkar DP, Singh PK, Kumar R, **Chandra PS**, Kale SS. Correction of pediatric cervical kyphosis: our experience and systematic-literature review. *Spine Deform*. 2024 May;12(3):603-620. doi: 10.1007/s43390-023-00809-4. Epub 2024 Jan 22. PMID: 38252256.
20. Prakasham K, Pan TY, Tan CH, Wu CF, **Chandra P**, Cheng CM, Chen W, Tsai WC, Ponnusamy VK, Wu MT. A rapid and sensitive analytical methodology for the simultaneous biomonitoring of two direct oral anticoagulant drugs and their major metabolites in thromboembolic disordered patients samples for clinical evaluations. *J Chromatogr A*. 2024 Feb 22;1717:464689. doi: 10.1016/j.chroma.2024.464689. Epub 2024 Jan 26. PMID: 38295740.
21. Mukherjee RN, Pandey K, Kumar AG, Phalak M, Borkar S, Garg K, **Chandra SP**, Kale SS. Comparison of functional outcomes and patient satisfaction in patients with lumbar canal stenosis with and without concomitant obesity following lumbar decompression surgery and their correlation with BMI. *J Clin Neurosci*. 2024 Sep 17;129:110840. doi: 10.1016/j.jocn.2024.110840. Epub ahead of print. PMID: 39293321.
22. Agrawal SK, Sagar T, **Chandra PS**, Chaudhry R. Recurrent pyogenic brain abscess in immunocompetent patient by *Bacteroides fragilis*: A silent cause of concern. *Indian J Med Microbiol*. 2024 Sep-Oct;51:100702. doi: 10.1016/j.ijmmmb.2024.100702. Epub 2024 Aug 14. PMID: 39127255.
23. Kale SS, Mishra S, Garg K, Singh PK, Borkar S, Agrawal D, Kumar R, Singh M, Suri A, **Chandra PS**. Surgical Management of Extradural Tumors at the Craniovertebral Junction - Insights from a Tertiary Care Center. *World Neurosurg*. 2024 Sep;189:e652-e661. doi: 10.1016/j.wneu.2024.06.139. Epub 2024 Jun 28. PMID: 38945207.

24. Singh B, Agrawal D, Garg A, Singh M, **Chandra PS**, Kale SS. A Prospective Study on Perfusion MRI Changes in Intracranial Meningiomas Following Gamma Knife Therapy. *Neurol India*. 2024 Jul 1;72(4):763-767. doi: 10.4103/neurol-india.NI_317_20. Epub 2024 Aug 31. PMID: 39216030.
25. Ganeshkumar A, Sesodia R, Doddamani RS, Meena R, **Chandra PS**. Resection of an Anterior Paramedian Cervicodorsal Intradural Extramedullary Lesion in a Child: Nuances of the Routine. *Neurol India*. 2024 Jul 1;72(4):721-724. doi: 10.4103/neurol-india.Neurol-India-D-24-00249. Epub 2024 Aug 31. PMID: 39216023.
26. Agarwal N, Verma SK, Gopinathan VR, Sharma MC, Sharma A, **Chandra SP**. Prolactin Secreting Pituitary Carcinoma and the Role of Peptide Receptor Radionuclide Therapy: A Brief Report. *Neurol India*. 2024 Jul 1;72(4):871-876. doi: 10.4103/neurol-india.Neurol-India-D-24-00529. Epub 2024 Aug 31. PMID: 39216050.
27. Doddamani R, **Chandra PS**. Radiogenomics In Neuro-Oncology: A Noninvasive Way of Understanding Tumor Biology. *Neurol India*. 2024 Jul 1;72(4):698-699. doi: 10.4103/neurol-india.neurol-india_88_24. Epub 2024 Aug 31. PMID: 39216019.
28. Doddamani RS, **Chandra PS**, Kota R, Ahemad N, Tripathi M. Robotic-guided radiofrequency ablative disconnection of hypothalamic hamartoma. *Neurosurg Focus* Video. 2024 Jul 1;11(1):V19. doi: 10.3171/2024.4.FOCVID2450. PMID: 38957419; PMCID: PMC11216425.
29. **Chandra PS**. Techniques to Enhance the Accuracy of Stereotactic Biopsy- Injection of Air. *Neurol India*. 2024 May 1;72(3):474-475. doi: 10.4103/neurol-india.neurol-india_84_24. Epub 2024 Jun 30. PMID: 39041959.

Year Of 2023

30. Sharma S, Nehra A, Pandey S, Tripathi M, Srivastava A, Padma MV, Garg A, Pandey RM, **Chandra S**, Tripathi M. Neuropsychological Rehabilitation for Epilepsy in India: Looking Beyond the Basics. *Epilepsy Behav*. 2024 Apr;153:109703. doi: 10.1016/j.yebeh.2024.109703. Epub 2024 Mar 6. PMID: 38452517.
31. Roth J, Bergman L, Weil AG, Brunette-Clement T, Weiner HL, Treiber JM, Shofty B, Cukiert A, Cukiert CM, Tripathi M, **Sarat Chandra P**, Bollo RJ, Machado HR, Santos MV, Gaillard WD, Oluigbo CO, Ibrahim GM, Jallo GI, Shimony N, O'Neill BR, Budke M, Pérez-Jiménez MÁ, Mangano FT, Iwasaki M, Iijima K, Gonzalez-Martinez J, Kawai K, Ishishita Y, Elbabaa SK, Bello-Espinosa L, Fallah A, Maniquis CAB, Ben-Zvi I, Tisdall M, Panigrahi M, Jayalakshmi S, Blount JP, Dorfmueller G, Bulteau C, Stone SS, Bolton J, Singhal A, Connolly M, Alsowat D, Alotaibi F, Ragheb J, Uliel-Sibony S. Added value of corpus callosotomy following vagus nerve stimulation in children with Lennox-Gastaut syndrome: A multicenter, multinational study. *Epilepsia*. 2023 Dec;64(12):3205-3212. doi: 10.1111/epi.17796. Epub 2023 Oct 20. PMID: 37823366.
32. Kumarasamy S, Garg K, Sharma MC, **Chandra PS**. Intracranial myeloid sarcoma as the first presentation of acute myeloid leukemia and literature review. *Childs Nerv Syst*. 2023 Dec;39(12):3607-3612. doi: 10.1007/s00381-023-06016-w. Epub 2023 Jun 10. PMID: 37300577.

33. Agrawal M, **Chandra PS**. Major Vessel Injury During Surgery - A Neurosurgeon's Nightmare. *Neurol India*. 2023 Nov-Dec;71(6):1130-1131. doi: 10.4103/0028-3886.391336. PMID: 38174445.
34. Dubey V, Roy A, Dixit AB, Tripathi M, Pandey S, Jain S, **Chandra PS**, Banerjee J. Dendritic reorganization in the hippocampus, anterior temporal lobe, and frontal neocortex of lithium-pilocarpine induced Status Epilepticus (SE). *J Chem Neuroanat*. 2023 Nov;133:102329. doi: 10.1016/j.jchemneu.2023.102329. Epub 2023 Aug 31. PMID: 37659616.
35. Kumar K, Yadav N, Banerjee J, Tripathi M, Sharma MC, Lalwani S, Siraj F, **Chandra PS**, Sengupta S, Dixit AB. Mass spectrometry-based lipidomic analysis reveals altered lipid profile in brain tissues resected from patients with focal cortical dysplasia (FCD). *Epilepsy Res*. 2021 Nov;177:106773. doi: 10.1016/j.epilepsyres.2021.106773. Epub 2021 Sep 22. PMID: 34564036.
36. Dash C, **Chandra PS**. Unstable Vertebral Spine Metastasis - Does the Time to Refer Matter? *Neurol India*. 2023 Sep-Oct;71(5):872-874. doi: 10.4103/0028-3886.388119. PMID: 37929419.
37. Deora H, Nagesh M, Garg K, Singh M, **Chandra SP**, Kale SS. Topical Vancomycin for Prevention of Surgical Site Infection in Cranial Surgeries: Results of an Updated Systematic Review, Meta-Analysis and Meta-Regression. *Neurol India*. 2023 Sep-Oct;71(5):875-883. doi: 10.4103/0028-3886.388107. PMID: 37929420.
38. Doddamani R, Kota R, Ahemad N, **Chandra PS**, Tripathi M. Minimally invasive hemispherotomy for refractory epilepsy in infants and young adults'. *J Neurointerv Surg*. 2023 Sep;15(9):933-934. doi: 10.1136/jnis-2023-020076. Epub 2023 Jan 13. PMID: 36639232.
39. Mishra S, Garg K, Chaurasia B, Budihal BR, Deora H, Tandon V, Phalak M, Mishra S, Kumar A, Umana GE, Lafuente J, Demetriades AK, Ha Y, Singh M, **Chandra PS**, Kale SS, Zileli M. An assessment of the variation in the practice of lumbar discectomy and its role in axial back pain. *J Craniovertebr Junction Spine*. 2023 Jul-Sep;14(3):259-267. doi: 10.4103/jcvjs.jcvjs_46_23. Epub 2023 Sep 18. PMID: 37860028; PMCID: PMC10583805.
40. Kumar K, Dubey V, Zaidi SS, Tripathi M, Siraj F, Sharma MC, **Chandra PS**, Doddamani R, Dixit AB, Banerjee J. RNA Sequencing of Intraoperative Peritumoral Tissues Reveals Potential Pathways Involved in Glioma-Related Seizures. *J Mol Neurosci*. 2023 Jun;73(6):437-447. doi: 10.1007/s12031-023-02125-y. Epub 2023 Jun 2. PMID: 37268865.
41. Tripathi M, **Chandra SP**. ChatGPT: A Threat to the Natural Wisdom from Artificial Intelligence. *Neurol India*. 2023 May-Jun;71(3):416-417. doi: 10.4103/0028-3886.378687. PMID: 37322731.
42. Sadhwani N, Garg K, Kumar A, Agrawal D, Singh M, **Chandra PS**, Kale SS. Comparison of Infection Rates Following Immediate and Delayed Cranioplasty for Postcraniotomy Surgical Site Infections: Results of a Meta-Analysis. *World Neurosurg*. 2023 May;173:167-175.e2. doi: 10.1016/j.wneu.2023.01.084. Epub 2023 Feb 2. PMID: 36736773.
43. Fauzi AA, Thamrin AMH, Permana AT, Ranuh IGMAR, Hidayati HB, Hamdan M, Wahyuhadi J, Suroto NS, Lestari P, **Chandra PS**. Comparison of the Administration Route of Stem Cell

- Therapy for Ischemic Stroke: A Systematic Review and Meta-Analysis of the Clinical Outcomes and Safety. *J Clin Med*. 2023 Apr 6;12(7):2735. doi: 10.3390/jcm12072735. PMID: 37048818; PMCID: PMC10094955.
44. Singh V, Grewal KS, Vibha D, Singh RK, Ramanujam B, Nehra A, **Chandra SP**, Gaikwad S, Babu I, Tripathi M. Cortico-limbic disruption, material-specificity, and deficits in cognitive-affective theory of mind. *Brain Commun*. 2023 Apr 24;5(2):fcad100. doi: 10.1093/braincomms/fcad100. PMID: 37101833; PMCID: PMC10123397.
 45. Agosti E, Garg K, Tandon V, Deora H, Veiceschi P, Naik V, Mishra S, Kedia S, Raheja A, Meena R, Shiva Munjal S, Chaurasia B, Phalak M, Locatelli D, Fontanella MM, Arnautovic K, Singh M, **Chandra PS**, Kale SS. Lessons learned during COVID-19 pandemic, a worldwide survey: impact of SARS-CoV-2 vaccination on neurosurgeons and neurosurgical practice. *J Neurosurg Sci*. 2023 Apr;67(2):257-259. doi: 10.23736/S0390-5616.22.05885-4. PMID: 37042712.
 46. **Chandra PS**, Doddamani R. Endovascular Thrombectomy in Acute Ischemic Stroke Due to Large Vessel Occlusion: Current Concepts and Controversies. *Neurol India*. 2023 Mar-Apr;71(2):204-206. doi: 10.4103/0028-3886.375413. PMID: 37148039.
 47. Tripathi M, Agarwal D, Singh M, **Chandra PS**. Gamma Knife Radiosurgery: A Delicate Yet Powerful Neurosurgical Knife. *Neurol India*. 2023 Mar-Apr;71(12 Suppl 2):S2. doi: 10.4103/0028-3886.373630. PMID: 37026327.
 48. **Chandra PS**, Samala R, Doddamani R, Verma S, Singh P, Chauhan MS. Technique of Distraction, Compression, Extension, Reduction to Reduce and Realign Old Displaced Odontoid Fracture From Posterior Approach: A Novel Technique. *Neurospine*. 2023 Mar;20(1):393-404. doi: 10.14245/ns.2244460.230. Epub 2023 Mar 31. PMID: 37016888; PMCID: PMC10080440.
 49. Singh PK, **Chandra SP**, Agrawal M, Sawarkar D, Kumar R, Kumar A, Verma S, Kale SS. Long-Term Outcome of Surgical Management in Symptomatic Pediatric Vertebral Hemangiomas Presenting With Myelopathy. *Neurosurgery*. 2020 Nov 16;87(6):1240-1251. doi: 10.1093/neuros/nyaa273. PMID: 32629465.
 50. Sharma D, Tripathi M, Doddamani R, Sharma MC, Lalwani S, **Sarat Chandra P**, Banerjee Dixit A, Banerjee J. Correlation of age at seizure onset with GABA_A receptor subunit and chloride Co-transporter configuration in Focal cortical dysplasia (FCD). *Neurosci Lett*. 2023 Feb 6;796:137065. doi: 10.1016/j.neulet.2023.137065. Epub 2023 Jan 10. PMID: 36638954.
 51. Kumar S, Shanker OR, Banerjee J, Tripathi M, **Chandra PS**, Dixit AB. Epigenetics in epilepsy. *Prog Mol Biol Transl Sci*. 2023;198:249-269. doi: 10.1016/bs.pmbts.2023.01.005. Epub 2023 Mar 16. PMID: 37225322.
 52. Shanker OR, Kumar S, Dixit AB, Banerjee J, Tripathi M, **Sarat Chandra P**. Epigenetics of neurological diseases. *Prog Mol Biol Transl Sci*. 2023;198:165-184. doi: 10.1016/bs.pmbts.2023.01.006. Epub 2023 Mar 17. PMID: 37225320.
 53. Chakraborty A, Dey S, Kumar K, Dixit AB, Tripathi M, Sharma MC, **Chandra PS**, Banerjee J. Novel variants in GABA_A receptor subunits: A possible association with benzodiazepine resistance in patients with drug-resistant epilepsy. *Epilepsy Res*. 2023 Jan;189:107056. doi: 10.1016/j.epilepsyres.2022.107056. Epub 2022 Nov 23. PMID: 36469977.

54. Verma SK, Singh PK, Kumar A, Sawarkar D, Laythalling RK, **Chandra PS**, Kale SS. Correction of pediatric cervical kyphosis with standalone posterior approach—a single-center experience of seven cases. *Childs Nerv Syst.* 2023 Jan;39(1):239-247. doi: 10.1007/s00381-022-05697-z. Epub 2022 Oct 11. PMID: 36220935.
55. Roth J, Weiner HL, **Chandra PS**, Machado HR, Blount JP, Dorfmueller G, Dorfer C, Panigrahi M, Uliel-Sibony S, Constantini S. The Pediatric Epilepsy Surgery Interest Group (PESIG) under the auspice of the ISPN Research Committee: Availability of relevant technology and geographical distribution. *Childs Nerv Syst.* 2024 Apr;40(4):1239-1244. doi: 10.1007/s00381-023-06236-0. Epub 2023 Nov 30. PMID: 38032484.
56. Kumarasamy S, Kumar A, Singh PK, Suri A, **Chandra PS**, Kale SS. Non-chordomatous clival bony tumors: A rare experience and systematic literature review. *Childs Nerv Syst.* 2024 Apr;40(4):1065-1077. doi: 10.1007/s00381-023-06237-z. Epub 2023 Dec 5. PMID: 38051310.
57. Verma SK, Singh PK, Kumar A, Sawarkar D, Laythalling RK, **Chandra PS** et al (2023) Correction of pediatric cervical kyphosis with standalone posterior approach—a single-center experience of seven cases. *Childs Nerv Syst* 39(1):239–247 - [DOI](#) - [PubMed](#)

Year of 2022

58. Dey S, Dubey V, Dixit AB, Tripathi M, **Chandra PS**, Banerjee J. Differential Levels of Tryptophan-Kynurenine Pathway Metabolites in the Hippocampus, Anterior Temporal Lobe, and Neocortex in an Animal Model of Temporal Lobe Epilepsy. *Cells.* 2022 Nov 10;11(22):3560. doi: 10.3390/cells11223560. PMID: 36428989; PMCID: PMC9688794.
59. Dubey V, Dey S, Dixit AB, Tripathi M, **Chandra PS**, Banerjee J. Differential glutamate receptor expression and function in the hippocampus, anterior temporal lobe and neocortex in a pilocarpine model of temporal lobe epilepsy. *Exp Neurol.* 2022 Jan;347:113916. doi: 10.1016/j.expneurol.2021.113916. Epub 2021 Nov 6. PMID: 34752784.
60. Banerjee J, Srivastava A, Sharma D, Dey S, Tripathi M, Sharma MC, **Sarat Chandra P**, Banerjee Dixit A. Differential regulation of excitatory synaptic transmission in the hippocampus and anterior temporal lobe by cyclin dependent kinase 5 (Cdk5) in mesial temporal lobe epilepsy with hippocampal sclerosis (MTLE-HS). *Neurosci Lett.* 2021 Sep 14;761:136096. doi: 10.1016/j.neulet.2021.136096. Epub 2021 Jul 1. PMID: 34217817.
61. Banerjee J, Banerjee Dixit A, Tripathi M, Sarkar C, Gupta YK, **Chandra PS**. Enhanced endogenous activation of NMDA receptors in pyramidal neurons of hippocampal tissues from patients with mesial temporal lobe epilepsy: A mechanism of hyper excitation. *Epilepsy Res.* 2015 Nov;117:11-6. doi: 10.1016/j.epilepsyres.2015.08.007. Epub 2015 Aug 12. PMID: 26320079.
62. Kumar K, Banerjee Dixit A, Tripathi M, Dubey V, Siraj F, Sharma MC, Lalwani S, **Chandra PS** Banerjee J. Transcriptomic profiling of nonneoplastic cortical tissues reveals epileptogenic mechanisms in dysembryoplastic neuroepithelial tumors. *Funct Integr Genomics.* 2022 Oct;22(5):905-917. doi: 10.1007/s10142-022-00869-1. Epub 2022 May 28. PMID: 35633443.
63. Kakkar A, Majumdar A, Kumar A, Tripathi M, Pathak P, Sharma MC, Suri V, Tandon V, **Chandra SP**, Sarkar C. Alterations in BRAF gene, and enhanced mTOR and MAPK signaling

- in dysembryoplastic neuroepithelial tumors (DNTs). *Epilepsy Res.* 2016 Nov;127:141-151. doi: 10.1016/j.epilepsyres.2016.08.028. Epub 2016 Aug 28. PMID: 27599148.
64. Kakkar A, Majumdar A, Pathak P, Kumar A, Kumari K, Tripathi M, Sharma MC, Suri V, Tandon V, **Chandra SP**, Sarkar C. *BRAF* gene alterations and enhanced mammalian target of rapamycin signaling in gangliogliomas. *Neurol India.* 2017 Sep-Oct;65(5):1076-1082. doi: 10.4103/neuroindia.NI_207_17. PMID: 28879901.
 65. Sawarkar DP, Singh PK, Agrawal D, Satyarthee GD, Gupta DK, Tandon V, Gurjar HK, Borkar S, Jagdevan A, Mishra S, Kedia S, Sharma R, Doddamani R, Verma S, Meena R, Kumar R, **Chandra PS**, Kale SS. O-Arm Assisted Anterior Odontoid Screw Fixation in Type II and Rostral Type III Odontoid Fractures: Single Center Surgical Series of 50 Patients. *Neurol India.* 2022 Sep-Oct;70(Supplement):S135-S143. doi: 10.4103/0028-3886.360924. PMID: 36412360.
 66. Tyagi M, Bir M, Sharma A, Singh PK, Bindra A, **Chandra PS**. Intraoperative Neuromonitoring for Spinal Surgery in a Pregnant Patient: Case Report and Literature Review. *Neurol India.* 2022 Sep-Oct;70(Supplement):S314-S317. doi: 10.4103/0028-3886.360931. PMID: 36412388.
 67. Garg M, Kumar A, Sawarkar DP, Agrawal M, Singh PK, Doddamani R, Agrawal D, Gupta D, Satyarthee G, **Chandra PS**, Kale SS. Management of Pediatric and Adolescent Traumatic Thoracolumbar Spondyloptosis. *Neurol India.* 2022 Sep-Oct;70(Supplement):S182-S188. doi: 10.4103/0028-3886.360921. PMID: 36412366.
 68. Garg K, Tandon V, Kumar R, **Chandra PS**, Kale SS, Sharma BS, Mahapatra AK. Craniovertebral Junction Anomalies: An Overlooked Cause of 'Posterior Circulation Stroke'. *Neurol India.* 2022 Sep-Oct;70(Supplement):S149-S159. doi: 10.4103/0028-3886.360916. PMID: 36412362.
 69. Bisht M, Kumar A, Singh PK, Garg A, Sawarkar D, Verma S, Doddamani R, Meena R, Leve JD, **Chandra SP**, Kale SS. Evaluation of Dural Parameters at C1 Level in Patients with Chiari 1 Malformation Following Foramen Magnum and C1 Posterior Arch Removal: Introduction of a Novel Concept to Decompress without Affecting Stability. *Neurol India.* 2022 Sep-Oct;70(Supplement):S160-S165. doi: 10.4103/0028-3886.360922. PMID: 36412363.
 70. Varshney G, Kumar A, Doddamani RS, Meena R, Sawarkar DP, Verma S, Singh PK, Gupta D, Satyarthee G, **Chandra PS**, Kale SS. Single-Stage Posterior Only Approach for Unilateral Atlantoaxial Spondyloptosis with type-II odontoid Fracture in Pediatric Patients. *Neurol India.* 2022 Sep-Oct;70(Supplement):S129-S134. doi: 10.4103/0028-3886.360918. PMID: 36412359.
 71. Kumar A, Varshney G, Singh PK, Agrawal D, Satyarthee GD, **Chandra PS**, Kale SS, Mahapatra AK. Traumatic Atlantoaxial Spondyloptosis Associated with Displaced Odontoid Fracture: Complete Reduction via Posterior Approach Using "Joint Remodeling" Technique. *World Neurosurg.* 2018 Feb;110:609-613. doi: 10.1016/j.wneu.2017.09.097. PMID: 29433186.
 72. Garg K, Sahu R, Agrawal M, Mishra S, Borkar S, **Chandra PS**, Kale SS. Use of Assessment Tools in Cervical Spondylotic Myelopathy-Results of An Anonymized Survey Among Indian Spine Surgeons. *Neurol India.* 2022 Sep-Oct;70(Supplement):S276-S281. doi: 10.4103/0028-3886.360923. PMID: 36412381

73. Garg K, Rafiq R, Mishra S, Singh P, Agrawal D, **Chandra PS**. Cervical Spine Fracture with Extreme Dislocation in a Patient with Ankylosing Spondylitis: A Case Report and Systematic Review of the Literature. *Neurol India*. 2022 Sep-Oct;70(Supplement):S296-S301. doi: 10.4103/0028-3886.360906. PMID: 36412384.
74. Garg K, Vij V, Mishra S, Vibha D, Singh M, **Chandra PS**, Kale SS. AIIMS Cervical Myelopathy Score - A New Comprehensive and Objective Patient-Reported Modification of mJOA: Results of an Internal Validation Study. *Neurol India*. 2022 Sep-Oct;70(Supplement):S166-S174. doi: 10.4103/0028-3886.360920. PMID: 36412364.
75. Mahakul D, Doddamani RS, Meena RK, Sawarkar D, Sharma R, Kedia S, Gupta D, Verma S, Singh PK, Agrawal D, Singh M, **Chandra PS**, Kale SS. Country-Made Firearm (Desi-Katta)-Related Cranial Injuries: An Institutional Experience. *Neurol India*. 2022 Sep-Oct;70(5):1976-1981. doi: 10.4103/0028-3886.359174. PMID: 36352597.
76. Meena RK, Doddamani RS, Kanasani S, Sawarkar DP, Singh PK, **Chandra PS**. A Rare Triad of Lateral Rectus Palsy, Sylvain Fissure Bleed, and Bilateral SDH Shrouding a Benign Pathology. *Neurol India*. 2022 Sep-Oct;70(5):2149-2152. doi: 10.4103/0028-3886.359161. PMID: 36352626.
77. Alam I, Garg K, Raheja A, Tandon V, Sharma R, Singh M, Singh GP, Mishra S, Singh PK, Agrawal D, Soni KD, Suri A, **Chandra PS**, Kale SS. Managing Traumatic Brain Injury During the Coronavirus Disease 2019 Pandemic-A Case-Matched Controlled Analysis of Immediate Outcomes. *World Neurosurg*. 2022 Sep;165:e59-e73. doi: 10.1016/j.wneu.2022.05.076. Epub 2022 May 25. PMID: 35643408; PMCID: PMC9131442.
78. Bera A, Srivastava A, Dubey V, Dixit AB, Tripathi M, Sharma MC, Lalwani S, **Chandra PS**, Banerjee J. Altered hippocampal expression and function of cytosolic phospholipase A2 (cPLA2) in temporal lobe epilepsy (TLE). *Neurol Res*. 2022 Aug;44(8):748-753. doi: 10.1080/01616412.2022.2051131. Epub 2022 Mar 13. PMID: 35285418.
79. Dash C, Moorthy S, Garg K, Sawarkar D, Singh PK, Kaur K, Suri V, Kumar A, Gurjar H, Borkar S, **Chandra PS**, Kale SS. Intraventricular Pilocytic Astrocytoma: A Single Centre Experience. *Neurol India*. 2022 Jul-Aug;70(4):1468-1474. doi: 10.4103/0028-3886.355185. PMID: 36076645.
80. Girishan S, Chaudhary K, Samala R, Agarwal M, Kumaran S, Doddamani R, Wadhawan AN, Ramanujam B, **Chandra SP**, Tripathi M. Long-Term Functional Outcome Following Left Hemispherotomy in Adults and Pediatric Participants with Fmri Analysis. *Neurol India*. 2022 Jul-Aug;70(4):1593-1600. doi: 10.4103/0028-3886.355100. PMID: 36076664.
81. VI G, Garg K, Tandon V, Borkar SA, Satyarthi GD, Singh M, **Chandra PS**, Kale SS. Effect of topical and intraventricular antibiotics used during ventriculoperitoneal shunt insertion on the rate of shunt infection-a meta-analysis. *Acta Neurochir (Wien)*. 2022 Jul;164(7):1793-1803. doi: 10.1007/s00701-022-05248-0. Epub 2022 May 26. PMID: 35618851.
82. Singh PK, **Chandra PS**, Vaghani G, Savarkar DP, Garg K, Kumar R, Kale SS, Sharma BS. Management of pediatric single-level vertebral hemangiomas presenting with myelopathy by three-pronged approach (ethanol embolization, laminectomy, and instrumentation): a single-institute experience. *Childs Nerv Syst*. 2016 Feb;32(2):307-14. doi: 10.1007/s00381-015-2941-x. Epub 2015 Dec 21. PMID: 26686533.

83. Singh P, Mishra NK, Dash HH, Thyalling RK, Sharma BS, Sarkar C, **Chandra PS**. Treatment of vertebral hemangiomas with absolute alcohol (ethanol) embolization, cord decompression, and single level instrumentation: a pilot study. *Neurosurgery*. 2011 Jan;68(1):78-84; discussion 84. doi: 10.1227/NEU.0b013e3181fc60e9. PMID: 21099721.
84. **Chandra SP**, Singh P, Kumar R, Agarwal D, Tandon V, Kale SS, Sarkar C. Long-term outcome of treatment of vertebral body hemangiomas with direct ethanol injection and short-segment stabilization. *Spine J*. 2019 Jan;19(1):131-143. doi: 10.1016/j.spinee.2018.05.015. Epub 2018 Jun 8. PMID: 29890263.
85. Singh PK, Verma SK, **Chandra PS**, Sawarkar D, Doddamani R, Agrawal M, Kumar A, Meena R, Agrawal D, Garg A, Kale SS. Management of Myelopathy due to Anterior Soft-Tissue Compression in Vertebral Hemangioma. *World Neurosurg*. 2021 Nov;155:e1-e8. doi: 10.1016/j.wneu.2021.06.059. Epub 2021 Jun 18. PMID: 34153483.
86. Kumar N, Katiyar V, Praneeth K, Sharma R, Narwal P, Raheja A, Tandon V, Mishra S, Garg K, Suri A, **Chandra PS**, Kale SS. Challenges and prospects of neurosurgical teleconsultations in a developing country: a reality check. *Neurosurg Focus*. 2022 Jun;52(6):E5. doi: 10.3171/2022.3.FOCUS2247. PMID: 35921188.
87. 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 Jun;150:e645-e656. doi: 10.1016/j.wneu.2021.03.070. Epub 2021 Mar 20. PMID: 33757889.
88. 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 Oct;142:e396-e406. doi: 10.1016/j.wneu.2020.07.038. Epub 2020 Jul 15. PMID: 32679362; PMCID: PMC7361045.
89. Venkataram T, Goyal N, Dash C, **Chandra PS**, Chaturvedi J, Raheja A, Singla R, Sardhara J, Singh B, Gupta R. Impact of the COVID-19 Pandemic on Neurosurgical Practice in India: Results of an Anonymized National Survey. *Neurol India*. 2020 May-Jun;68(3):595-602. doi: 10.4103/0028-3886.289004. PMID: 32643671.
90. 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 Jun;162:e187-e197. doi: 10.1016/j.wneu.2022.02.115. Epub 2022 Mar 3. PMID: 35248769.
91. **Chandra PS**. Secondary Trigeminal Neuralgia- Surgery vs. Radiosurgery: Which is better? *Neurol India*. 2022 May-Jun;70(3):843-844. doi: 10.4103/0028-3886.349723. PMID: 35864606.
92. Agrawal M, **Chandra SP**, Doddamani RS, Samala R, Garg A, Gaikwad S, Sharma R, Ramanujan B, Tripathi M, Bal C, Tripathi M. Feasibility of Tailored Unilateral Disconnection vs Callosotomy for Refractory Epilepsy in Patients with Bilateral Parieto-Occipital Gliosis Following Perinatal Insult. *Neurol India*. 2022 May-Jun;70(3):918-927. doi: 10.4103/0028-3886.349601. PMID: 35864619.

93. Doddamani RS, Tripathi M, Samala R, Agarwal M, Ramanujan B, **Chandra SP**. Posterior quadrant disconnection for sub-hemispheric drug refractory epilepsy. *Neurol India*. 2020 Mar-Apr;68(2):270-273. doi: 10.4103/0028-3886.284358. PMID: 32415002.
94. Doddamani R, Kota RC, Ahemad N, **Chandra SP**, Tripathi M. Endoscopic Total Corpus Callosotomy and Pan Commissurotomy for Lennox-Gastaut Syndrome. *Neurol India*. 2022 Jan-Feb;70(1):63-67. doi: 10.4103/0028-3886.338654. PMID: 35263855.
95. **Chandra SP**, Kurwale NS, Chibber SS, Banerji J, Dwivedi R, Garg A, Bal C, Tripathi M, Sarkar C, Tripathi M. Endoscopic-Assisted (Through a Mini Craniotomy) Corpus Callosotomy Combined With Anterior, Hippocampal, and Posterior Commissurotomy in Lennox-Gastaut Syndrome: A Pilot Study to Establish Its Safety and Efficacy. *Neurosurgery*. 2016 May;78(5):743-51. doi: 10.1227/NEU.0000000000001060. PMID: 26474092.
96. Agarwal N, Kumar A, Singh P, **Chandra PS**, Kale SS. Suprameatal Extension of Retrosigmoid Approach in Microvascular Decompression for Trigeminal Neuralgia with Petrous Endostosis: Case Report and Literature Review. *Neurol India*. 2022 May-Jun;70(3):1240-1243. doi: 10.4103/0028-3886.349582. PMID: 35864678.
97. Srivastava A, Banerjee J, Dubey V, Tripathi M, **Chandra PS**, Sharma MC, Lalwani S, Siraj F, Doddamani R, Dixit AB. Role of Altered Expression, Activity and Sub-cellular Distribution of Various Histone Deacetylases (HDACs) in Mesial Temporal Lobe Epilepsy with Hippocampal Sclerosis. *Cell Mol Neurobiol*. 2022 May;42(4):1049-1064. doi: 10.1007/s10571-020-00994-0. Epub 2020 Nov 28. PMID: 33258018.
98. Darbari S, Manjunath N, Doddamani RS, Meena R, Nambirajan A, Sawarkar D, Singh PK, Garg K, **Chandra PS**, Kale SS. Primary spinal cord glioblastoma multiforme: a single-center experience. *Br J Neurosurg*. 2022 Apr 20:1-7. doi: 10.1080/02688697.2022.2064427. Epub ahead of print. PMID: 35441567.
99. Deora H, Raheja A, Mishra S, Tandon V, Agosti E, Veiceschi P, Garg K, Naik V, Kedia S, Meena R, Munjal SS, Chaurasia B, Wellington J, Locatelli D, Fontanella MM, Singh M, **Chandra PS**, Kale SS, Arnautovic K. Lessons learned during covid-19 pandemic, a worldwide survey: evolution of global neurosurgical practice. *J Neurosurg Sci*. 2022 Apr 13. doi: 10.23736/S0390-5616.22.05733-2. Epub ahead of print. PMID: 35416460.
100. Garg K, Gupta D, Singh M, **Chandra PS**, Kale SS. Comparison of a bolt-connected external ventricular drain with a tunneled external ventricular drain - a narrative review and meta-analysis. *Neurosurg Rev*. 2022 Apr;45(2):937-949. doi: 10.1007/s10143-021-01639-6. Epub 2021 Sep 7. PMID: 34490538.
101. Garg K, Verma SK, Singh PK, Singh M, **Chandra PS**, Kale SS. Effect of External Ventricular Drain Tunnel Length on Cerebrospinal Fluid Infection Rates-A Bayesian Network Meta-Analysis. *World Neurosurg*. 2022 Feb;158:268-278.e4. doi: 10.1016/j.wneu.2021.11.009. Epub 2021 Nov 10. PMID: 34774808.
102. Meena RK, Mishra S, Singh PK, Kanasani S, Jena B, **Chandra SP**, Kale SS. Trans-Oesophageal Migration of Pulled-Out Locking Screw (Zero-Profile Implant System) and its Retrieval Using Suction Catheter: A Technical Note. *Neurol India*. 2022 Mar-Apr;70(2):749-752. doi: 10.4103/0028-3886.344619. PMID: 35532652.

103. Doddamani RS, Subianto H, Bajaj J, Girishan S, Samala R, Agrawal M, Ramanujam B, Tripathi M, **Chandra PS**. Mini Temporal Craniotomy Using Anatomical Surface Landmarks for Temporal Lobe Epilepsy: Technical Note and Clinical Outcomes. *Neurol India*. 2022 Mar-Apr;70(2):524-529. doi: 10.4103/0028-3886.344675. PMID: 35532614.
104. Meena R, Doddamani RS, K Gour SS, Mahajan S, Agrawal D, **Chandra PS**. Malignant Melanoma of the Brainstem: A Unicorn Not a Popcorn. *Neurol India*. 2022 Jan-Feb;70(1):340-344. doi: 10.4103/0028-3886.338696. PMID: 35263909.
105. Manjunath N, Mishra S, Garg K, Suri V, Sharma MC, Tandon V, Singh M, Suri A, **Chandra PS**, Kale SS. Is There Any Relationship Between Systemic Inflammatory Markers And Meningioma Grade? *Neurol India*. 2022 Jan-Feb;70(1):223-230. doi: 10.4103/0028-3886.338647. PMID: 35263887.
106. **Chandra PS**. Current Status of Carotid Stenosis and Revascularization. *Neurol India*. 2022 Jan-Feb;70(1):3-4. doi: 10.4103/0028-3886.338738. PMID: 35263845.
107. 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. doi: 10.4103/0028-3886.336329. PMID: 35263862.
108. 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. doi: 10.4103/0028-3886.336335. PMID: 35263885.
109. Singh PK, Verma SK, Garg M, Sawarkar DP, Kumar A, Agrawal D, **Chandra SP**, Kale SS, Sharma BS, Mahapatra AK. Evaluation of Correction of Radiologic Parameters (Angulation and Displacement) and Accuracy of C2 Pedicle Screw Placement in Unstable Hangman's Fracture with Intraoperative Computed Tomography-Based Navigation. *World Neurosurg*. 2017 Nov;107:795-802. doi: 10.1016/j.wneu.2017.08.075. Epub 2017 Aug 24. PMID: 28842231.
110. Sharma S, Nehra A, Pandey S, Tripathi M, Srivastava A, Padma MV, Garg A, Pandey RM, **Chandra S**, Tripathi M. Suspend or amend? Randomized controlled trial on neuropsychological rehabilitation for epilepsy: A COVID-19 impact. *Epilepsy Behav Rep*. 2022;17:100516. doi: 10.1016/j.ebr.2021.100516. Epub 2021 Dec 16. PMID: 34957386; PMCID: PMC8685486.
111. Garg K, Mishra S, Raheja A, Verma S, Tandon V, Agrawal S, Suri A, **Chandra PS**, Prada F, Servadei F, Kale SS, Srivastava P. Hybrid Workshops During the COVID-19 Pandemic- Dawn of a New Era in Neurosurgical Learning Platforms. *World Neurosurg*. 2022 Jan;157:e198-e206. doi: 10.1016/j.wneu.2021.09.132. Epub 2021 Oct 6. PMID: 34624519; PMCID: PMC8523585.
112. Sharma D, Sawarkar DP, Singh PK, Kale SS, Joseph L, Garg A, Kumar A, Verma S, Doddamani R, Meena R, **Chandra SP**. Determination of Availability of Safety Margin for Placement of C3-C6 Pedicle Screw on CT Angiography. *World Neurosurg*. 2022 Jan;157:e22-e28. doi: 10.1016/j.wneu.2021.09.057. Epub 2021 Sep 20. PMID: 34555573.

113. Varshney G, Kumar A, Doddamani RS, Meena R, Sawarkar DP, Verma S, Singh PK, Gupta D, Satyarthee G, **Chandra PS**, Kale SS. Single-Stage Posterior Only Approach for Unilateral Atlantoaxial Spondyloptosis with type-II odontoid Fracture in Pediatric Patients. *Neurol India*. 2022 Sep-Oct;70(Supplement):S129-S134. doi: 10.4103/0028-3886.360918. PMID: 36412359.

Year Of 2021

114. Doddamani RS, Meena RK, Sawarkar D, **Chandra PS**. Letter: Experience With Ventriculoperitoneal and Lumboperitoneal Shunting for the Treatment of Idiopathic Intracranial Hypertension: A Single Institution Series. *Oper Neurosurg (Hagerstown)*. 2021 Nov 15;21(6):E577-E578. doi: 10.1093/ons/opab341. PMID: 34528098.
115. Srivastava A, Kumar K, Banerjee J, Tripathi M, Dubey V, Sharma D, Yadav N, Sharma MC, Lalwani S, Doddamani R, **Chandra PS**, Dixit AB. Transcriptomic profiling of high- and low-spiking regions reveals novel epileptogenic mechanisms in focal cortical dysplasia type II patients. *Mol Brain*. 2021 Jul 23;14(1):120. doi: 10.1186/s13041-021-00832-4. PMID: 34301297; PMCID: PMC8305866.
116. Dixit AB, Sharma D, Tripathi M, Srivastava A, Paul D, Prakash D, Sarkar C, Kumar K, Banerjee J, **Chandra PS**. Genome-wide DNA Methylation and RNAseq Analyses Identify Aberrant Signalling Pathways in Focal Cortical Dysplasia (FCD) Type II. *Sci Rep*. 2018 Dec 19;8(1):17976. doi: 10.1038/s41598-018-35892-5. PMID: 30568293; PMCID: PMC6299275.
117. Ball T, González-Martínez J, Zemmar A, Sweid A, **Chandra S**, VanSickle D, Neimat JS, Jabbour P, Wu C. Robotic Applications in Cranial Neurosurgery: Current and Future. *Oper Neurosurg (Hagerstown)*. 2021 Nov 15;21(6):371-379. doi: 10.1093/ons/opab217. PMID: 34192764.
118. Bohara S, Garg K, Mishra S, Tandon V, **Chandra PS**, Kale SS. Impact of various cervical surgical interventions in patients with Hirayama's disease-a narrative review and meta-analysis. *Neurosurg Rev*. 2021 Dec;44(6):3229-3247. doi: 10.1007/s10143-021-01540-2. Epub 2021 Apr 21. PMID: 33884522.
119. Agrawal R, Arumulla S, Manjunath N, Meena R, Doddamani R, Singh PK, **Chandra SP**. Trans-Sylvian Resection of Giant Left Insular Glioma: Operative Technique and Nuances. *Neurol India*. 2021 Nov-Dec;69(6):1560-1564. doi: 10.4103/0028-3886.333450. PMID: 34979643.
120. **Chandra PS**. Authors, Reviewers, and Publishers- The Ecosystem for Scientific Documentation: Is this Enough? *Neurol India*. 2021 Nov-Dec;69(6):1516-1517. doi: 10.4103/0028-3886.333449. PMID: 34979635.
121. **Chandra SP**. Hydrocephalus: An *Odyssey of Trials, Tribulations, and Eternal Hope Tamaso Ma Jyotirgamaya* ("Lead me from Darkness to Light"). *Neurol India*. 2021 Nov-Dec;69(12 Suppl 2):S257-S258. doi: 10.4103/0028-3886.332250. PMID: 35102973.
122. Katiyar V, Sharma R, Tandon V, Garg K, Narwal P, **Chandra PS**, Suri A, Kale SS. Comparison of Programmable and Non-Programmable Shunts for Normal Pressure Hydrocephalus: A Meta-Analysis and Trial Sequential Analysis. *Neurol India*. 2021 Nov-Dec;69(Supplement):S413-S419. doi: 10.4103/0028-3886.332277. PMID: 35102997.

123. Fallah A, Lewis E, Ibrahim GM, Kola O, Tseng CH, Harris WB, Chen JS, Lin KM, Cai LX, Liu QZ, Lin JL, Zhou WJ, Mathern GW, Smyth MD, O'Neill BR, Dudley RWR, Ragheb J, Bhatia S, Delev D, Ramantani G, Zentner J, Wang AC, Dorfer C, Feucht M, Czech T, Bollo RJ, Issabekov G, Zhu H, Connolly M, Steinbok P, Zhang JG, Zhang K, Hidalgo ET, Weiner HL, Wong-Kissel L, Lapalme-Remis S, Tripathi M, Sarat **Chandra P**, Hader W, Wang FP, Yao Y, Champagne PO, Brunette-Clément T, Guo Q, Li SC, Budke M, Pérez-Jiménez MA, Raftopoulos C, Finet P, Michel P, Schaller K, Stienen MN, Baro V, Cantillano Malone C, Pociecha J, Chamorro N, Muro VL, von Lehe M, Vieker S, Oluigbo C, Gaillard WD, Al-Khateeb M, Al Otaibi F, Krakenbühl N, Bolton J, Pearl PL, Weil AG. Comparison of the real-world effectiveness of vertical versus lateral functional hemispherotomy techniques for pediatric drug-resistant epilepsy: A post hoc analysis of the HOPS study. *Epilepsia*. 2021 Nov;62(11):2707-2718. doi: 10.1111/epi.17021. Epub 2021 Sep 12. PMID: 34510448; PMCID: PMC9290517.
124. **Chandra PS**, Doddamani R, Tripathi M. Gamma Knife for Giant Hypothalamic Hamartomas-Not the Only Effective Tool in the Kit. *Indian J Pediatr*. 2021 Nov;88(11):1066-1067. doi: 10.1007/s12098-021-03902-6. Epub 2021 Sep 1. PMID: 34468937.
125. Mishra S, Garg K, Gaonkar VB, Singh PM, Singh M, Suri A, **Chandra PS**, Kale SS. Effects of Various Therapeutic Agents on Vasospasm and Functional Outcome After Aneurysmal Subarachnoid Hemorrhage-Results of a Network Meta-Analysis. *World Neurosurg*. 2021 Nov;155:41-53. doi: 10.1016/j.wneu.2021.07.104. Epub 2021 Jul 30. PMID: 34339892.
126. Dey S, Banerjee Dixit A, Tripathi M, Doddamani RS, Sharma MC, Lalwani S, **Chandra PS**, Banerjee J. Altered hippocampal kynurenine pathway metabolism contributes to hyperexcitability in human mesial temporal lobe epilepsy-hippocampal sclerosis. *Br J Pharmacol*. 2021 Oct;178(19):3959-3976. doi: 10.1111/bph.15534. Epub 2021 Jun 22. PMID: 33990935.
127. Banerjee J, Dey S, Dixit AB, Tripathi M, Doddamani R, Sharma MC, **Chandra PS**. $\alpha 7$ nicotinic receptors contributes to glutamatergic activity in the hippocampus of patients with mesial temporal lobe epilepsy with hippocampal sclerosis (MTLE-HS). *J Neural Transm (Vienna)*. 2020 Oct;127(10):1441-1446. doi: 10.1007/s00702-020-02239-2. Epub 2020 Aug 8. PMID: 32770411.
128. Dey S, Doddamani RS, Banerjee Dixit A, Tripathi M, Sharma MC, **Chandra PS**, Banerjee J. Altered Spontaneous Glutamatergic and GABAergic Activity in the Peritumoral Cortex of Low-Grade Gliomas Presenting With History of Seizures. *Front Neurosci*. 2021 Jun 28;15:689769. doi: 10.3389/fnins.2021.689769. PMID: 34262432; PMCID: PMC8273299.
129. Agrawal M, Tripathi M, Samala R, Doddamani R, Ramanujan B, **Chandra PS**. Epilepsy surgery in COVID times-a unique conundrum. *Childs Nerv Syst*. 2021 Oct;37(10):3219-3224. doi: 10.1007/s00381-021-05048-4. Epub 2021 Apr 10. PMID: 33839899; PMCID: PMC8036014.
130. **Chandra PS**. Time to Think Beyond Spine Fixation for Cervical Spine: Aligning the Whole Spine. *Neurol India*. 2021 Sep-Oct;69(5):1142-1143. doi: 10.4103/0028-3886.329536. PMID: 34747777.

131. Goda R, Dey S, Doddamani RS, Gaikwad S, **Chandra PS**. En-bloc Resection of A Giant Solid Hemangioblastoma of The Vermis. *Neurol India*. 2021 Sep-Oct;69(5):1200-1203. doi: 10.4103/0028-3886.329537. PMID: 34747784.
132. Doddamani RS, Garg S, Agrawal D, Meena RK, Sawarkar D, Singh PK, Verma S, **Chandra SP**. Microscissor DREZotomy for post brachial plexus avulsion neuralgia: A single center experience. *Clin Neurol Neurosurg*. 2021 Sep;208:106840. doi: 10.1016/j.clineuro.2021.106840. Epub 2021 Aug 4. PMID: 34418706.
133. Meena R, Doddamani RS, Agrawal D, **Chandra PS**. Dorsal Root Entry Zone (DREZ) Lesioning for Brachial Neuralgia. *Neurol India*. 2020 Sep-Oct;68(5):1012-1015. doi: 10.4103/0028-3886.299139. Erratum in: *Neurol India*. 2021 Jan-Feb;69(1):236. PMID: 33109843.
134. Sawarkar DP, Singh PK, Agrawal D, Gupta DK, Satyarthee GD, Doddamani R, Verma S, Meena R, Tandon V, Gurjar HK, Jagdevan A, Kumar R, **Chandra PS**, Kale SS. Anterior Odontoid Screw Fixation for Pediatric and Adolescent Odontoid Fractures: Single-Center Experience Over a Decade. *World Neurosurg*. 2021 Sep;153:e153-e167. doi: 10.1016/j.wneu.2021.06.075. Epub 2021 Jun 21. PMID: 34166831.
135. Tripathi M, Kaur K, Ramanujam B, Viswanathan V, Bharti K, Singh G, Singh V, Garg A, Bal CS, Tripathi M, Sharma MC, Pandey R, Dash D, Mandal P, **Chandra PS**. Diagnostic added value of interictal magnetic source imaging in presurgical evaluation of persons with epilepsy: A prospective blinded study. *Eur J Neurol*. 2021 Sep;28(9):2940-2951. doi: 10.1111/ene.14935. Epub 2021 Jul 10. PMID: 34124810.
136. Sharma D, Dixit AB, Dey S, Tripathi M, Doddamani R, Sharma MC, Lalwani S, Gurjar HK, **Chandra PS**, Banerjee J. Increased levels of $\alpha 4$ -containing GABA_A receptors in focal cortical dysplasia: A possible cause of benzodiazepine resistance. *Neurochem Int*. 2021 Sep;148:105084. doi: 10.1016/j.neuint.2021.105084. Epub 2021 May 27. PMID: 34052299.
137. Rafiq R, Katiyar V, Garg K, Kasliwal M, **Chandra PS**, Kale SS. Comparison of outcomes of surgery for intracranial meningioma in elderly and young patients - A systematic review and meta-analysis. *Clin Neurol Neurosurg*. 2021 Aug;207:106772. doi: 10.1016/j.clineuro.2021.106772. Epub 2021 Jun 25. PMID: 34245986.
138. Bohara S, Gaonkar VB, Garg K, Rajpal PMS, Singh PK, Singh M, Suri A, **Chandra PS**, Kale SS. Effect of statins on functional outcome and mortality following aneurysmal subarachnoid hemorrhage - Results of a meta-analysis, metaregression and trial sequential analysis. *Clin Neurol Neurosurg*. 2021 Aug;207:106787. doi: 10.1016/j.clineuro.2021.106787. Epub 2021 Jun 26. PMID: 34225002.
139. Roth J, Constantini S, Ekstein M, Weiner HL, Tripathi M, **Chandra PS**, Cossu M, Rizzi M, Bollo RJ, Machado HR, Santos MV, Keating RF, Oluigbo CO, Rutka JT, Drake JM, Jallo GI, Shimony N, Treiber JM, Consales A, Mangano FT, Wisoff JH, Teresa Hidalgo E, Bingaman WE, Gupta A, Erdemir G, Sundar SJ, Benifla M, Shapira V, Lam SK, Fallah A, Maniquis CAB, Tisdall M, Chari A, Cinalli G, Blount JP, Dorfmueller G, Christine Bulteau, Uliel-Sibony S. Epilepsy surgery in infants up to 3 months of age: Safety, feasibility, and outcomes: A multicenter, multinational study. *Epilepsia*. 2021 Aug;62(8):1897-1906. doi: 10.1111/epi.16959. Epub 2021 Jun 14. PMID: 34128544.

140. Sharma R, Garg K, Katiyar V, Alam I, Tandon V, Raheja A, Mishra S, Veerabhadraiah P, Suri A, **Chandra PS**, Kale SS. Analysis of Neurosurgical Cases Before and During the Coronavirus Disease 2019 Pandemic from a Tertiary-Care Centre in India. *World Neurosurg.* 2021 Aug;152:e635-e644. doi: 10.1016/j.wneu.2021.06.019. Epub 2021 Jun 12. PMID: 34129979; PMCID: PMC8197626.
141. Doddamani RS, **Chandra PS**, Samala R, Ramanujan B, Tripathi M, Bal CS, Garg A, Gaikwad S, Tripathi M. Endoscopic Hemispherotomy for Nonatrophic Rasmussen's Encephalopathy. *Neurol India.* 2021 Jul-Aug;69(4):837-841. doi: 10.4103/0028-3886.325379. PMID: 34507398.
142. Agrawal M, Devarajan LJ, Dharanipathy S, Katiyar V, Singh PK, Garg A, **Chandra PS**, Kale SS. Morphometric Analysis of C2 Pedicle in 247 Patients and Proposal for Trajectory and Size of Pedicle Screw. *Neurol India.* 2021 Jul-Aug;69(4):925-930. doi: 10.4103/0028-3886.325374. PMID: 34507414.
143. Agrawal M, Sawarkar D, Singh PK, Mishra S, Meena R, Gupta DK, **Chandra PS**, Kale SS. Posterior fixation for paediatric and adolescent unstable hangman's fracture: evolution to C1 sparing techniques. *Childs Nerv Syst.* 2021 Jul;37(7):2319-2327. doi: 10.1007/s00381-021-05140-9. Epub 2021 Mar 30. PMID: 33783618.
144. Sawarkar D, Agrawal M, Singh PK, Mishra S, Agrawal D, Kumar A, Verma S, Doddamani R, Meena R, Garg K, Gurjar H, **Chandra PS**, Kale SS. Evolution to Pedicle Reformation Technique in Surgical Management of Hangman's Fracture. *World Neurosurg.* 2021 May;149:e481-e490. doi: 10.1016/j.wneu.2021.02.001. Epub 2021 Feb 7. PMID: 33567364.
145. Doddamani RS, Samala R, **Chandra PS**, Tripathi M. Letter to the Editor. Boltless stereoelectroencephalography: a necessity in very young children. *J Neurosurg Pediatr.* 2021 Jun 18;1-2. doi: 10.3171/2021.3.PEDS21133. Epub ahead of print. PMID: 34144515.
146. Samala R, Doddamani R, Tripathi M, **Chandra PS**. Letter to the Editor. Is arterial spin labeling relevant in MRI-negative drug-refractory epilepsy? *J Neurosurg Pediatr.* 2021 Jun 18;1. doi: 10.3171/2021.3.PEDS21139. Epub ahead of print. PMID: 34144514.
147. Kumar S, Shanker OR, Kumari N, Tripathi M, **Chandra PS**, Dixit AB, Banerjee J. Neuromodulatory effects of SARS-CoV2 infection: Possible therapeutic targets. *Expert Opin Ther Targets.* 2021 Jun;25(6):509-519. doi: 10.1080/14728222.2021.1953475. Epub 2021 Jul 20. PMID: 34232801; PMCID: PMC8330012.
148. Mishra S, Garg K, Singh PK, Satyarthee GD, **Chandra PS**, Kale SS. Letter to the Editor Regarding "Bibliometric and Visualized Analysis of Scientific Publications on Ossification of the Posterior Longitudinal Ligament Based on Web of Science". *World Neurosurg.* 2021 Jun;150:235-240. doi: 10.1016/j.wneu.2021.03.043. PMID: 34098649.
149. Raheja A, Manjunath N, Garg K, Tandon V, Gupta V, Mishra S, Ather S, Suri A, **Chandra PS**, Singh M, Shariff A, Kale SS. Turning a New Chapter in Neurosurgery Outpatient Services: Telemedicine A "Savior" in this Pandemic. *Neurol India.* 2021 Mar-Apr;69(2):344-351. doi: 10.4103/0028-3886.314523. PMID: 33904449.
150. Katiyar V, Garg K, Doddamani R, Singh PK, Singh M, **Chandra PS**. Spontaneous external rupture of hydrocephalus after fontanelle closure: a case report and review of

literature. Childs Nerv Syst. 2021 Jun;37(6):2069-2073. doi: 10.1007/s00381-020-04915-w. Epub 2020 Oct 6. PMID: 33025149; PMCID: PMC7537948.

151. Meena RK, Gurjar HK, Doddamani RS, Narula D, Agrawal D, **Chandra PS**. Re-Expansion Pulmonary Edema (RPE) in a Neurosurgical Patient. Neurol India. 2021 May-Jun;69(3):755-756. doi: 10.4103/0028-3886.319230. PMID: 34169885.
152. Doddamani RS, Samala R, Subianto H, Ramanujam B, Tripathi M, **Chandra PS**. Robotic-Guided Stereoelectroencephalography for Refractory Epilepsy: Technique and Nuances. Neurol India. 2021 May-Jun;69(3):587-591. doi: 10.4103/0028-3886.319246. PMID: 34169847.
153. Sharma R, Garg K, Agrawal S, Mishra S, Gurjar HK, Tandon V, Agrawal D, Singh M, **Chandra SP**, Kale SS. Atypical Symptoms of Cervical Spondylosis: Is Anterior Cervical Discectomy and Fusion Useful? - An Institutional Experience. Neurol India. 2021 May-Jun;69(3):595-601. doi: 10.4103/0028-3886.317235. PMID: 34169849.
154. Kaur T, Diwakar A, Kirandeep, Mirpuri P, Tripathi M, **Chandra PS**, Gandhi TK. Artificial Intelligence in Epilepsy. Neurol India. 2021 May-Jun;69(3):560-566. doi: 10.4103/0028-3886.317233. PMID: 34169842.
155. Agrawal M, **Chandra PS**, Samala R, Doddamani RS, Ramanujan B, Tripathi M. Letter: Risk Factors for Seizure Worsening After Epilepsy Surgery in Children and Adults: A Population-Based Register Study. Neurosurgery. 2021 Mar 15;88(4):E364-E365. doi: 10.1093/neuros/nyaa559. PMID: 33372206.
156. Doddamani RS, Meena R, Samala R, Agrawal M, Tripathi M, **Chandra PS**. Expanding the Horizons of mTOR Inhibitors for Treating Subependymal Giant Cell Astrocytomas with Obstructive Hydrocephalus. Pediatr Neurosurg. 2021;56(1):102-104. doi: 10.1159/000512720. Epub 2021 Jan 28. PMID: 33508851.
157. Bajaj J, Doddamani R, **Chandra SP**, Ratre S, Parihar V, Yadav Y, Sharma D. Comparison of Peripheral Neurectomy vs. Medical Treatment for Migraine: A Randomized Controlled Trial. Neurol India. 2021 Mar-Apr;69(Supplement):S110-S115. doi: 10.4103/0028-3886.315973. PMID: 34003156.
158. Verma S, Tripathi M, **Chandra PS**. Cervicogenic Headache: Current Perspectives. Neurol India. 2021 Mar-Apr;69(Supplement):S194-S198. doi: 10.4103/0028-3886.315992. PMID: 34003165.
159. Chowdhury D, **Chandra PS**. Headache Disorders: The Painful Truth About the Neglect and Deprivation. Neurol India. 2021 Mar-Apr;69(12 Suppl 2):S1-S3. doi: 10.4103/0028-3886.316000. PMID: 34003142.
160. **Chandra PS**, Ghonia R, Singh S, Garg K. Anomalous Vertebral Artery During Cranio Vertebral Junction Surgery Using DCER (Distraction, Compression, Extension, and Reduction): Approach. and Its Repair. Neurol India. 2021 Mar-Apr;69(2):315-317. doi: 10.4103/0028-3886.314543. PMID: 33904442.
161. Garg M, Kumar A, Singh PK, Mahalangikar R, Satyarthee GD, Agrawal D, Gupta D, Gurjar HK, Mishra S, **Chandra PS**, Kale SS. Transpedicular Approach for Corpectomy and Circumferential Arthrodesis in Traumatic Lumbar Vertebral Body Burst Fractures: A

- Retrospective Analysis of Outcome in 35 Patients. *Neurol India*. 2021 Mar-Apr;69(2):399-405. doi: 10.4103/0028-3886.314521. PMID: 33904463.
162. Agrawal M, Garg M, Kumar A, Singh PK, Satyarthee GD, Agrawal D, **Chandra PS**, Kale SS. Management of Pediatric Posttraumatic Thoracolumbar Vertebral Body Burst Fractures by Use of Single-Stage Posterior Transpedicular Approach. *World Neurosurg*. 2018 Sep;117:e22-e33. doi: 10.1016/j.wneu.2018.05.088. Epub 2018 May 19. PMID: 29787879.
 163. Doddamani RS, Meena R, Sawarkar D, Singh P, Agrawal D, Singh M, **Chandra PS**. Robot-guided Ventriculoperitoneal Shunt in Slit-like Ventricles. *Neurol India*. 2021 Mar-Apr;69(2):446-450. doi: 10.4103/0028-3886.314585. PMID: 33904473.
 164. **Chandra PS**. Basal Cisternostomy: Hype or Hope? *Neurol India*. 2021 Mar-Apr;69(2):2-4. doi: 10.4103/0028-3886.314592. PMID: 33904431.
 165. Meena R, Doddamani RS, Chipde H, Agrawal D, Mahajan S, **Chandra PS**. Management Dilemma in A Rare Case of Bilateral Temporo-Insular Glioma. *Neurol India*. 2021 Mar-Apr;69(2):470-474. doi: 10.4103/0028-3886.314559. PMID: 33904478.
 166. Kaur K, Garg A, Tripathi M, **Chandra SP**, Singh G, Viswanathan V, Bharti K, Singh V, Ramanujam B, Bal CS, Sharma MC, Pandey R, Vibha D, Singh RK, Mandal PK, Tripathi M. Comparative contribution of magnetoencephalography (MEG) and single-photon emission computed tomography (SPECT) in pre-operative localization for epilepsy surgery: A prospective blinded study. *Seizure*. 2021 Mar;86:181-188. doi: 10.1016/j.seizure.2021.02.005. Epub 2021 Feb 15. PMID: 33647809.
 167. Mirpuri P, Chandra PP, Samala R, Agarwal M, Doddamani R, Kaur K, Ramanujan B, **Chandra PS**, Tripathi M. The development and efficacy of a mobile phone application to improve medication adherence for persons with epilepsy in limited resource settings: A preliminary study. *Epilepsy Behav*. 2021 Mar;116:107794. doi: 10.1016/j.yebeh.2021.107794. Epub 2021 Feb 10. PMID: 33578224.
 168. Doddamani RS, Meena R, Sawarkar D, Singh PK, **Chandra PS**. Stereotactic guided ablation for subependymal giant cell astrocytomas: does it change the surgical indications? *Childs Nerv Syst*. 2021 Mar;37(3):735-736. doi: 10.1007/s00381-020-04837-7. Epub 2020 Jul 29. PMID: 32728931.
 169. Agrawal M, Samala R, Doddamani RS, Goyal A, Tripathi M, **Chandra PS**. Is surgery effective for treating hypothalamic hamartoma causing isolated central precocious puberty? A systematic review. *Neurosurg Rev*. 2021 Dec;44(6):3087-3105. doi: 10.1007/s10143-021-01512-6. Epub 2021 Feb 28. PMID: 33641048.
 170. Agrawal M, Samala R, Doddamani RS, **Chandra PS**. Letter: predictors of postoperative complications after selective dorsal rhizotomy. *Acta Neurochir (Wien)*. 2021 Feb;163(2):475. doi: 10.1007/s00701-020-04629-7. Epub 2020 Oct 28. PMID: 33111153.
 171. Agrawal M, Garg K, Mishra S, Doddamani R, **Sarat Chandra P**. Letter to the editor regarding "Selective dorsal rhizotomy for spasticity of genetic etiology". *Childs Nerv Syst*. 2020 Sep;36(9):1825. doi: 10.1007/s00381-020-04787-0. Epub 2020 Jul 2. PMID: 32617709.
 172. Gaonkar VB, Garg K, Agrawal D, **Chandra PS**, Kale SS. Risk Factors for Progression of Conservatively Managed Acute Traumatic Subdural Hematoma: A Systematic Review and

- Meta-Analysis. *World Neurosurg.* 2021 Feb;146:332-341. doi: 10.1016/j.wneu.2020.11.031. Epub 2020 Nov 13. PMID: 33197632.
173. Garg K, Vij V, Garg A, Singh M, **Chandra PS**. "Malignant" Craniospinal Neurocysticercosis: A Rare Case. *World Neurosurg.* 2021 Feb;146:95-102. doi: 10.1016/j.wneu.2020.10.121. Epub 2020 Oct 27. PMID: 33127574.
 174. Agrawal M, Samala R, Doddamani R, Agrawal D, **Chandra SP**. The role of selective dorsal rhizotomy in the management of post-traumatic spasticity: systematic review. *Neurosurg Rev.* 2021 Feb;44(1):213-221. doi: 10.1007/s10143-020-01255-w. Epub 2020 Feb 5. PMID: 32020384.
 175. Kumar S, Attrish D, Srivastava A, Banerjee J, Tripathi M, **Chandra PS**, Dixit AB. Non-histone substrates of histone deacetylases as potential therapeutic targets in epilepsy. *Expert Opin Ther Targets.* 2021 Jan;25(1):75-85. doi: 10.1080/14728222.2021.1860016. Epub 2020 Dec 14. PMID: 33275850.
 176. Morris K, Nami M, Bolanos JF, Lobo MA, Sadri-Naini M, Fiallos J, Sanchez GE, Bustos T, Chintam N, Amaya M, Strand SE, Mayuku-Dore A, Sakibova I, Biso GMN, DeFilippis A, Bravo D, Tarhan N, Claussen C, Mercado A, Braun S, Yuge L, Okabe S, Taghizadeh-Hesary F, Kotliar K, Sadowsky C, **Chandra PS**, Tripathi M, Katsaros V, Mehling B, Noroozian M, Abbasioun K, Amirjamshidi A, Hossein-Zadeh GA, Naraghi F, Barzegar M, Asadi-Pooya AA, Sahab-Negah S, Sadeghian S, Fahnstock M, Dilbaz N, Hussain N, Mari Z, Thatcher RW, Sipple D, Sidhu K, Chopra D, Costa F, Spena G, Berger T, Zelinsky D, Wheeler CJ, Ashford JW, Schulte R, Nezami MA, Kloor H, Filler A, Eliashiv DS, Sinha D, DeSalles AAF, Sadanand V, Suchkov S, Green K, Metin B, Hariri R, Cormier J, Yamamoto V, Kateb B. Neuroscience20 (BRAIN20, SPINE20, and MENTAL20) Health Initiative: A Global Consortium Addressing the Human and Economic Burden of Brain, Spine, and Mental Disorders Through Neurotech Innovations and Policies. *J Alzheimers Dis.* 2021;83(4):1563-1601. doi: 10.3233/JAD-215190. PMID: 34487051.
 177. Bir M, Gupta U, Jaryal AK, Singh A, Netam R, Kale SS, **Chandra SP**, Singh M, Rath GP. Predictive value of intraoperative D-wave and m-MEP neurophysiological monitoring in patients with preoperative motor deficits in immediate and late postoperative period. *J Craniovertebr Junction Spine.* 2021 Jan-Mar;12(1):26-32. doi: 10.4103/jcvjs.JCVJS_76_20. Epub 2021 Mar 4. PMID: 33850378; PMCID: PMC8035592.
 178. **Chandra PS**. Starting Elective Neurosurgeries: Recovering From COVID Pandemic. *Neurol India.* 2021 Jan-Feb;69(1):2-3. doi: 10.4103/0028-3886.310077. PMID: 33642262.
 179. Singh J, Garg K, Satyarthee GD, Chandra PS, Singh M. Dynamic MRI in Cervical Myelopathy: A Useful Tool? *Neurol India.* 2021 Jan-Feb;69(1):211. doi: 10.4103/0028-3886.310103. PMID: 33642307.
 180. Karthik Yelamarthy PK, Chhabra HS, Vaccaro A, Vishwakarma G, Kluger P, Nanda A, Abel R, Tan WF, Gardner B, **Sarat Chandra P**, Chatterjee S, Kahraman S, Naderi S, Basu S, Theron F. Correction to: Management and prognosis of acute traumatic cervical central cord syndrome: systematic review and Spinal Cord Society-Spine Trauma Study Group position statement. *Eur Spine J.* 2021 Jan;30(1):232-233. doi: 10.1007/s00586-020-06654-7. Erratum for: *Eur Spine J.* 2019 Oct;28(10):2390-2407. PMID: 33216200.

181. Yelamarthy PKK, Chhabra HS, Vaccaro A, Vishwakarma G, Kluger P, Nanda A, Abel R, Tan WF, Gardner B, **Chandra PS**, Chatterjee S, Kahraman S, Naderi S, Basu S, Theron F. Management and prognosis of acute traumatic cervical central cord syndrome: systematic review and Spinal Cord Society-Spine Trauma Study Group position statement. *Eur Spine J*. 2019 Oct;28(10):2390-2407. doi: 10.1007/s00586-019-06085-z. Epub 2019 Jul 31. Erratum in: *Eur Spine J*. 2021 Jan;30(1):232-233. PMID: 31367852.
 182. Banerjee J, Srivastava A, Sharma D, Dey S, Tripathi M, Sharma MC, **Sarat Chandra P** Banerjee Dixit A. Differential regulation of excitatory synaptic transmission in the hippocampus and anterior temporal lobe by cyclin dependent kinase 5 (Cdk5) in mesial temporal lobe epilepsy with hippocampal sclerosis (MTLE-HS). *Neurosci Lett*. 2021 Sep 14;761:136096. doi: 10.1016/j.neulet.2021.136096. Epub 2021 Jul 1. PMID: 34217817.
- Year Of 2020**
183. Kaur K, Agrawal M, Yadav M, **Chandra PS**, Samala R, Doddamani R, Ramanujam B, Singh G, Tripathi M. On-scalp magnetoencephalography: A long but promising road ahead? *Clin Neurophysiol*. 2021 Feb;132(2):696-697. doi: 10.1016/j.clinph.2020.12.011. Epub 2020 Dec 30. PMID: 33451961.
 184. Chauhan AK, **Chandra PS**, Goyal N, Chowdhury MR, Banerjee J, Tripathi M, Kabra M. Weak Ligaments and Sloping Joints: A New Hypothesis for Development of Congenital Atlantoaxial Dislocation and Basilar Invagination. *Neurospine*. 2020 Dec;17(4):843-856. doi: 10.14245/ns.2040434.217. Epub 2020 Dec 31. PMID: 33401861; PMCID: PMC7788422.
 185. **Chandra PS**, Goyal N, Chauhan A, Ansari A, Sharma BS, Garg A. The severity of basilar invagination and atlantoaxial dislocation correlates with sagittal joint inclination, coronal joint inclination, and craniocervical tilt: a description of new indexes for the craniovertebral junction. *Neurosurgery*. 2014 Dec;10 Suppl 4:621-9; discussion 629-30. doi: 10.1227/NEU.0000000000000470. PMID: 25320950.
 186. **Chandra PS**, Goyal N. In reply: the severity of basilar invagination and atlantoaxial dislocation correlates with sagittal joint inclination, coronal joint inclination, and craniocervical tilt: a description of new indices for the craniovertebral junction. *Neurosurgery*. 2015 Feb;76(2):E235-9. doi: 10.1227/NEU.0000000000000600. PMID: 25549199.
 187. 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 Dec;49(6):E3. doi: 10.3171/2020.9.FOCUS20564. PMID: 33260133.
 188. Chaudhary K, Tripathi M, **Chandra SP**, Nehra A, Kumaran SS. Evaluation of memory in persons with mesial temporal lobe sclerosis: A combined fMRI and VBM study. *J Biosci*. 2020;45:74. PMID: 32515356.
 189. Chaudhary K, Ramanujam B, Kumaran SS, **Chandra PS**, Wadhawan AN, Garg A, Tripathi M. Does education play a role in language reorganization after surgery in drug refractory temporal lobe epilepsy: An fMRI based study? *Epilepsy Res*. 2017 Oct;136:88-96. doi: 10.1016/j.epilepsyres.2017.07.017. Epub 2017 Jul 29. PMID: 28802988.

190. Singh V, Chaudhary K, Kumaran SS, **Chandra S**, Tripathi M. Functional Cerebral Specialization and Decision Making in the Iowa Gambling Task: A Single-Case Study of Left-Hemispheric Atrophy and Hemispherotomy. *Front Psychol*. 2020 Apr 21;11:725. doi: 10.3389/fpsyg.2020.00725. PMID: 32373036; PMCID: PMC7186408.
191. Garg M, Shambanduram S, Singh PK, Sebastian LJD, Sawarkar DP, Kumar A, Gaikwad S, **Chandra PS**, Kale SS. Management of Pediatric Posterior Circulation Aneurysms-12-Year Single-Institution Experience. *World Neurosurg*. 2018 Aug;116:e624-e633. doi: 10.1016/j.wneu.2018.05.056. Epub 2018 May 17. PMID: 29778599.
192. Garg K, Singh PK, Sharma BS, **Chandra PS**, Suri A, Singh M, Kumar R, Kale SS, Mishra NK, Gaikwad SK, Mahapatra AK. Pediatric intracranial aneurysms--our experience and review of literature. *Childs Nerv Syst*. 2014 May;30(5):873-83. doi: 10.1007/s00381-013-2336-9. Epub 2013 Dec 10. PMID: 33342852.
193. **Chandra PS**. The Need for Uniform Residency Training Programs and the challenges during COVID Pandemic for India. *Neurol India*. 2020 Nov-Dec;68(6):1279-1280. doi: 10.4103/0028-3886.304084. PMID: 33342852.
194. Choudhary KS, Doddamani RS, Devarajan LJ, Agrawal M, Sawarkar D, Meena RK, Varma S, Kumar A, Singh P, **Chandra PS**, Kale SS. Feasibility of Double Anterior Odontoid Screw: A CT-Based Morphometric Analysis of the Axis in Adult Indian Population. *Neurol India*. 2020 Nov-Dec;68(6):1361-1366. doi: 10.4103/0028-3886.304125. PMID: 33342869.
195. Doddamani RS, Samala R, Agrawal M, Verma R, Kumar N, **Chandra PS**. Robotic Guided Bilateral Anterior Cingulate Radiofrequency Ablation for Obsessive-Compulsive Disorder. *Neurol India*. 2020 Nov-Dec;68(Supplement):S333-S336. doi: 10.4103/0028-3886.302467. PMID: 33318372.
196. **Chandra PS**, Samala R, Agrawal M, Doddamani RS, Ramanujam B, Tripathi M. Vagal Nerve Stimulation for Drug Refractory Epilepsy. *Neurol India*. 2020 Nov-Dec;68(Supplement):S325-S327. doi: 10.4103/0028-3886.302458. PMID: 33318370.
197. Doddamani RS, Agrawal M, Samala R, Ramanujam B, **Chandra PS**, Tripathi M. Vagal Nerve Stimulation in the Management of Epilepsy - Recent Concepts. *Neurol India*. 2020 Nov-Dec;68(Supplement):S259-S267. doi: 10.4103/0028-3886.302475. PMID: 33318360.
198. Parihar J, Agrawal M, Samala R, **Chandra PS**, Tripathi M. Role of Neuromodulation for Treatment of Drug-Resistant Epilepsy. *Neurol India*. 2020 Nov-Dec;68(Supplement):S249-S258. doi: 10.4103/0028-3886.302476. PMID: 33318359.
199. Kaur K, **Chandra PS**, Samala R, Agrawal M, Doddamani R, Ramanujam B, Singh G, Tripathi M. Bridging the gap between analytical methods and their clinical interpretation. *Epilepsia*. 2020 Nov;61(11):2609-2610. doi: 10.1111/epi.16706. Epub 2020 Oct 16. PMID: 33063844.
200. Katiyar V, Sharma R, Tandon V, Goda R, Ganeshkumar A, Suri A, **Chandra PS**, Kale SS. Impact of frailty on surgery for glioblastoma: a critical evaluation of patient outcomes and caregivers' perceptions in a developing country. *Neurosurg Focus*. 2020 Oct;49(4):E14. doi: 10.3171/2020.7.FOCUS20482. PMID: 33002866.
201. Banerjee J, Dey S, Dixit AB, Doddamani R, Sharma MC, Garg A, **Chandra PS**, Tripathi M. GABA_A Receptor-Mediated Epileptogenicity in Focal Cortical Dysplasia (FCD) Depends

- on Age at Epilepsy Onset. *Front Cell Neurosci.* 2020 Sep 30;14:562811. doi: 10.3389/fncel.2020.562811. PMID: 33192309; PMCID: PMC7556289.
202. Agrawal M, **Chandra PS**, Doddamani R, Kaur K, Samala R, Tripathi M. Maximizing non-invasive investigations in the quest for identifying the epileptogenic zone. *Clin Neurophysiol.* 2020 Nov;131(11):2777-2778. doi: 10.1016/j.clinph.2020.08.020. Epub 2020 Sep 23. PMID: 33011079.
 203. 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 Sep-Oct;68(5):994-1002. doi: 10.4103/0028-3886.299132. PMID: 33109840.
 204. Sharma R, Sharma R, Tandon V, Phalak M, Garg K, Singh M, Gupta D, Agrawal D, **Chandra SP**, Kale SS, Sreenivas V. Is Endoscopic Third Ventriculostomy a Feasible Option or Ventriculoperitoneal Shunt a Safer Bet for the Treatment of Posttraumatic Hydrocephalus? A Gap Time Model-based Algorithm. *Neurol India.* 2020 Sep-Oct;68(5):1125-1132. doi: 10.4103/0028-3886.294832. PMID: 33109862.
 205. **Chandra PS**, Tej M, Sawarkar D, Agarwal M, Doddamani RS. Fronto-Orbital Variant of Supraorbital Keyhole Approach for Clipping Ruptured Anterior Circulation Aneurysms (f-Sokha). *Neurol India.* 2020 Sep-Oct;68(5):1019-1027. doi: 10.4103/0028-3886.294827. PMID: 33109845.
 206. Kumar S, Banerjee J, Tripathi M, **Chandra PS**, Dixit AB. IDH1-R132H-FAT1-ROS-HIF-1 α Signaling Pathway Inhibits Glioblastoma Tumor Progression. *Neurol India.* 2020 Sep-Oct;68(5):1059-1060. doi: 10.4103/0028-3886.294541. PMID: 33109852.
 207. Garg K, Singh PM, Singla R, Aggarwal A, Borle A, Singh M, **Chandra PS**, Kale SS, Mahapatra AK. Reply to letter - Role of Decompressive Craniectomy in Traumatic Brain Injury - A Meta-analysis of Randomized Controlled Trials. *Neurol India.* 2020 Sep-Oct;68(5):1243. doi: 10.4103/0028-3886.294545. PMID: 33109890.
 208. Garg K, Singh PM, Singla R, Aggarwal A, Borle A, Singh M, **Chandra PS**, Kale SS, Mahapatra AK. Role of Decompressive Craniectomy in Traumatic Brain Injury - A Meta-analysis of Randomized Controlled Trials. *Neurol India.* 2019 Sep-Oct;67(5):1225-1232. doi: 10.4103/0028-3886.271260. PMID: 31744947.
 209. Singh PK, Agrawal M, Mishra S, Agrawal D, Sawarkar D, Jagdevan A, Verma S, Doddamani R, Meena R, Garg K, **Chandra PS**, Kale SS. Management of C2 Body Giant Cell Tumor by Innovatively Fashioned Iliac Crest Graft and Modified Cervical Mesh Cage Used as Plate. *World Neurosurg.* 2020 Aug;140:241-246. doi: 10.1016/j.wneu.2020.05.182. Epub 2020 May 27. PMID: 32473331.
 210. Verma SK, Dharanipathy S, Suri A, **Chandra PS**, Kale SS. Video Section-Operative Nuances: Step by Step - Donning and Doffing in Neurosurgical Operating Room. *Neurol India.* 2020 Jul-Aug;68(4):796-799. doi: 10.4103/0028-3886.293436. PMID: 32859815.
 211. **Chandra SP**, Bajaj J, Ghonia R, Doddamani R. Video Section-Operative Nuances: Step by Step - Single Stage Clipping of Ruptured Middle Cerebral Artery and Unruptured Basilar Top Aneurysm. *Neurol India.* 2020 Jul-Aug;68(4):800-802. doi: 10.4103/0028-3886.293443. PMID: 32859816.

212. Garg K, Deora H, Mishra S, Tripathi M, Sadashiva N, **Chandra SP**, Kale SS. Quality of Neurosurgery Training in India when Compared to UK- Are We There Yet? *Neurol India*. 2020 Jul-Aug;68(4):950-951. doi: 10.4103/0028-3886.293439. PMID: 32859855.
213. Garg K, Deora H, Mishra S, Tripathi M, Sadashiva N, **Chandra PS**, Kale SS. How is neurosurgical residency in India? Results of an anonymized national survey of residents. *Neurol India*. 2019 May-Jun;67(3):777-782. doi: 10.4103/0028-3886.263264. PMID: 31347554.
214. Deora H, Sadashiva N, Tripathi M, Yagnick NS, Mohindra S, Batish A, Patil NR, Aggarwal A, Jangra K, Bhagat H, Panda N, Panigrahi M, Behari S, **Chandra PS**, Shukla DP, Singh L, Math SB, Gupta SK. The Aftermath of COVID-19 Lockdown- Why and How Should We Be Ready? *Neurol India*. 2020 Jul-Aug;68(4):774-791. doi: 10.4103/0028-3886.293471. PMID: 32859813.
215. **Chandra PS**. Are there any indications of transoral odontoidectomy today? *Neurosurg Focus Video*. 2020 Jul 1;3(1):V7. doi: 10.3171/2020.4.FocusVid.20332. PMID: 36285119; PMCID: PMC9542310.
216. **Chandra PS**, Agarwal M. A case of severe basilar invagination and AAD, corrected using the technique of DCER-distraction, compression, extension, reduction (with spacer + universal reducer). *Neurosurg Focus Video*. 2020 Jul 1;3(1):V9. doi: 10.3171/2020.4.FocusVid.20138. PMID: 36285124; PMCID: PMC9542301.
217. **Sarat Chandra P**, Bajaj J, Singh PK, Garg K, Agarwal D. Basilar Invagination and Atlantoaxial Dislocation: Reduction, Deformity Correction and Realignment Using the DCER (Distraction, Compression, Extension, and Reduction) Technique With Customized Instrumentation and Implants. *Neurospine*. 2019 Jun;16(2):231-250. doi: 10.14245/ns.1938194.097. Epub 2019 Jun 30. PMID: 31261462; PMCID: PMC6603831.
218. **Chandra PS**, Prabhu M, Goyal N, Garg A, Chauhan A, Sharma BS. Distraction, Compression, Extension, and Reduction Combined With Joint Remodeling and Extra-articular Distraction: Description of 2 New Modifications for Its Application in Basilar Invagination and Atlantoaxial Dislocation: Prospective Study in 79 Cases. *Neurosurgery*. 2015 Jul;77(1):67-80; discussion 80. doi: 10.1227/NEU.0000000000000737. PMID: 25793730.
219. **Chandra PS**. In Reply: Different Facets in Management of Congenital Atlantoaxial Dislocation and Basilar Invagination. *Neurosurgery*. 2015 Dec;77(6):E987-8. doi: 10.1227/NEU.0000000000000959. PMID: 26281025.
220. **Chandra PS**. In reply: distraction, compression, and extension reduction of basilar invagination and atlantoaxial dislocation. *Neurosurgery*. 2015 Feb;76(2):E240-2. doi: 10.1227/NEU.0000000000000605. PMID: 25549197.
221. **Chandra PS**, Kumar A, Chauhan A, Ansari A, Mishra NK, Sharma BS. Distraction, compression, and extension reduction of basilar invagination and atlantoaxial dislocation: a novel pilot technique. *Neurosurgery*. 2013 Jun;72(6):1040-53; discussion 1053. doi: 10.1227/NEU.0b013e31828bf342. PMID: 23426148.

222. Joaquim AF, Tedeschi H, **Chandra PS**. Controversies in the surgical management of congenital craniocervical junction disorders - A critical review. *Neurol India*. 2018 Jul-Aug;66(4):1003-1015. doi: 10.4103/0028-3886.237025. PMID: 30038084.
223. Kumari K, Sharma MC, Kakkar A, Malgulwar PB, Pathak P, Suri V, Sarkar C, **Chandra SP**, Faruq M. mTOR pathway activation in focal cortical dysplasia. *Ann Diagn Pathol*. 2020 Jun;46:151523. doi: 10.1016/j.anndiagpath.2020.151523. Epub 2020 Apr 10. PMID: 32325422.
224. Kumari K, Sharma MC, Kakkar A, Malgulwar PB, Pathak P, Suri V, Sarkar C, **Chandra SP**, Faruq M, Gupta RK, Saran RK. Role of mTOR signaling pathway in the pathogenesis of subependymal giant cell astrocytoma - A study of 28 cases. *Neurol India*. 2016 Sep-Oct;64(5):988-94. doi: 10.4103/0028-3886.190274. PMID: 27625244.
225. **Chandra PS**. Telemedicine: The Next Important Health Vertical for Neurosciences In India. *Neurol India*. 2020 May-Jun;68(3):532-533. doi: 10.4103/0028-3886.289012. PMID: 32643657.
226. Bajaj J, **Chandra PS**. Recent Developments in Endoscopic Endonasal Approach for Pituitary Adenomas. *Neurol India*. 2020 May-Jun;68(Supplement):S79-S84. doi: 10.4103/0028-3886.287671. PMID: 32611896.
227. Doddamani RS, Tripathi M, Samala R, Agrawal M, Ramanujam B, Bajaj J, Girishan S, Tripathi M, Bal CS, Garg A, **Chandra PS**. Hypothalamic Hamartoma and Endocrinopathy: A Neurosurgeon's Perspective. *Neurol India*. 2020 May-Jun;68(Supplement):S146-S153. doi: 10.4103/0028-3886.287681. PMID: 32611907.
228. Singh V, Grewal KS, Vibha D, Singh RK, Ramanujam B, Nehra A, **Chandra SP**, Gaikwad S, Babu I, Tripathi M. Cortico-limbic disruption, material-specificity, and deficits
229. Agrawal D, **Chandra PS**, Singh PK, Meena R, Doddamani R, Jagdevan A, Mishra S, Garg K. Cost-Effective Home Mechanical Ventilation in Neurosurgery Patients: Case Series of Three Patients. *J Neurosci Rural Pract*. 2020 Apr;11(2):329-332. doi: 10.1055/s-0040-1709256. Epub 2020 May 2. PMID: 32367989; PMCID: PMC7195951.
230. 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 Apr;136:e33-e40. doi: 10.1016/j.wneu.2019.08.212. Epub 2019 Sep 4. PMID: 31493608.
231. Singla R, Singh PK, Khanna G, Suri V, Agarwal D, **Chandra PS**, Kale SS, Mahapatra AK. An institutional review of 10 cases of spinal hemangiopericytoma/solitary fibrous tumor. *Neurol India*. 2020 Mar-Apr;68(2):448-453. doi: 10.4103/0028-3886.284374. PMID: 32415022.
232. Banerjee J, Tripathi M, **Chandra PS**, Dixit AB. Do SARS-CoV2 viral proteins have neuromodulatory properties? *Neurol India*. 2020 Mar-Apr;68(2):274-275. doi: 10.4103/0028-3886.283760. PMID: 32415003.
233. Gupta P, Muthukumar N, Rajshekhar V, Tripathi M, Thomas S, Gupta SK, Lal V, Pal P, Abraham M, Behari S, Paliwal V, Singh D, Pandey S, Narasimhan L, Srinivas D, Panda S, Kale SS, **Chandra PS**. Neurosurgery and Neurology Practices during the Novel COVID-19

- Pandemic: A Consensus Statement from India. *Neurol India*. 2020 Mar-Apr;68(2):246-254. doi: 10.4103/0028-3886.283130. PMID: 32414996.
234. Dixit AB, Srivastava A, Sharma D, Tripathi M, Paul D, Lalwani S, Doddamani R, Sharma MC, Banerjee J, **Chandra PS**. Integrated Genome-Wide DNA Methylation and RNAseq Analysis of Hippocampal Specimens Identifies Potential Candidate Genes and Aberrant Signalling Pathways in Patients with Hippocampal Sclerosis. *Neurol India*. 2020 Mar-Apr;68(2):307-313. doi: 10.4103/0028-3886.280649. PMID: 32189710.
 235. Dixit AB, Banerjee J, Srivastava A, Tripathi M, Sarkar C, Kakkar A, Jain M, **Chandra PS**. RNA-seq analysis of hippocampal tissues reveals novel candidate genes for drug refractory epilepsy in patients with MTLE-HS. *Genomics*. 2016 May;107(5):178-88. doi: 10.1016/j.ygeno.2016.04.001. Epub 2016 Apr 14. PMID: 27094248.
 236. Meena RK, Doddamani RS, Chipde H, Mahajan S, **Chandra SP**, Sawarkar DP. Primary spinal atypical teratoid/rhabdoid tumour presenting with hematomyelia and subarachnoid haemorrhage-a case report. *Childs Nerv Syst*. 2020 Mar;36(3):655-659. doi: 10.1007/s00381-019-04412-9. Epub 2019 Oct 29. PMID: 31664561.
 237. Singh PK, Agrawal M, Sawarkar D, Kumar A, Verma S, Doddamani R, **Chandra PS**, Kale SS. Management of neglected complex hangman's fracture by reforming the C2 pedicle: new innovative technique of motion preservation at the C1-2 joint in 2 cases. *J Neurosurg Spine*. 2020 Feb 7:1-8. doi: 10.3171/2019.12.SPINE191050. Epub ahead of print. PMID: 32032963.
 238. 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. doi: 10.1016/j.wneu.2019.08.165. Epub 2019 Sep 3. PMID: 31491582.
 239. Weil AG, Lewis EC, Ibrahim GM, Kola O, Tseng CH, Zhou X, Lin KM, Cai LX, Liu QZ, Lin JL, Zhou WJ, Mathern GW, Smyth MD, O'Neill BR, Dudley R, Ragheb J, Bhatia S, Delev D, Ramantani G, Zentner J, Ojemann J, Wang AC, Dorfer C, Feucht M, Czech T, Bollo RJ, Issabekov G, Zhu H, Connelly M, Steinbok P, Zhang JG, Zhang K, Hidalgo ET, Weiner HL, Wong-Kissel L, Lapalme-Remis S, Tripathi M, **Sarat Chandra P**, Hader W, Wang FP, Yao Y, Olivier Champagne P, Guo Q, Li SC, Budke M, Pérez-Jiménez MA, Raftopoulos C, Finet P, Michel P, Schaller K, Stienen MN, Baro V, Cantillano Malone C, Pocięcha J, Chamorro N, Muro VL, von Lehe M, Vieker S, Oluigbo C, Gaillard WD, Al Khateeb M, Al Otaibi F, Krakenbühl N, Bolton J, Pearl PL, Fallah A. Hemispherectomy Outcome Prediction Scale: Development and validation of a seizure freedom prediction tool. *Epilepsia*. 2021 May;62(5):1064-1073. doi: 10.1111/epi.16861. Epub 2021 Mar 13. PMID: 33713438.
 240. Koyalmantham V, Kale SS, Devarajan LJ, Phalak M, **Chandra PS**, Suri A, Kumar R, Tandon V. Patient Outcomes Following Obliteration of Spinal Dural Arteriovenous Fistula and the Role of Indocyanine Green Angiography Videoangiography (ICG-VA) During Surgery. *Neurol India*. 2020 Jan-Feb;68(1):118-123. doi: 10.4103/0028-3886.279705. PMID: 32129260.

241. Vaid A, Patil C, Sanghariyat A, Rane R, Visani A, Mukherjee S, Joseph A, Ranjan M, Augustine S, Sooraj KP, Rathore V, Nema SK, Agraj A, Garg G, Sharma A, Sharma M, Pansare K, Krishna CM, Banerjee J, **Chandra PS**. Emerging Advanced Technologies Developed by IPR for Bio Medical Applications -A Review. *Neurol India*. 2020 Jan-Feb;68(1):26-34. doi: 10.4103/0028-3886.279707. PMID: 32129239.
242. **Chandra PS**. Plasma Technologies for Health Applications. *Neurol India*. 2020 Jan-Feb;68(1):3-4. doi: 10.4103/0028-3886.279667. PMID: 32129232.
243. Yadav N, Banerjee J, Tripathi M, **Chandra PS**, Dixit AB. Association of Genetic Polymorphisms in Tumor Necrosis Factor-Alpha gene with the risk of Intracerebral Hemorrhage in North Indian Population. *Neurol India*. 2020 Jan-Feb;68(1):84-85. doi: 10.4103/0028-3886.279683. PMID: 32129251.
244. Bajaj J, Chaudhary K, **Chandra PS**, Ramanujam B, Girishan S, Doddamani R, Tripathi M, Nehra A, Tripathi M. Left Temporal Lobectomy Using Functional MRI in a Math Genius: A Case Report. *Neurol India*. 2020 Jan-Feb;68(1):170-172. doi: 10.4103/0028-3886.279704. PMID: 32129271.
245. Amitkumar M, Singh PK, Singh KJ, Khumukcham T, Sawarkar DP, **Chandra SP**, Kale SS. Surgical Outcome in Spinal Operation in Patients Aged 70 Years and Above. *Neurol India*. 2020 Jan-Feb;68(1):45-51. doi: 10.4103/0028-3886.279672. PMID: 32129242.
246. Kumar A, **Chandra PS**, Kale S. Parietal transventricular approach for medial temporal glioma: A technical report. *Surg Neurol Int*. 2020 Feb 14;11:22. doi: 10.25259/SNI_489_2019. PMID: 32123610; PMCID: PMC7049883.
247. Meena RK, Doddamani RS, Gurjar HK, Kumar A, **Chandra PS**. Type 1.5 Split Cord Malformations: An Uncommon Entity. *World Neurosurg*. 2020 Jan;133:142-149. doi: 10.1016/j.wneu.2019.09.076. Epub 2019 Sep 23. PMID: 31557552.

Year Of 2019

248. **Chandra PS**, Tripathi M. Letter to the Editor: Endoscope-assisted hemispherotomy and corpus callostomy. *J Neurosurg Pediatr*. 2016 Jul;18(1):141-4. doi: 10.3171/2015.12.PEDS15681. Epub 2016 Apr 1. PMID: 27035546.
249. Girishan S, Tripathi M, Garg A, Doddamani R, Bajaj J, Ramanujam B, **Chandra PS**. Enhancing outcomes of endoscopic vertical approach hemispherotomy: understanding the role of "temporal stem" residual connections causing recurrence of seizures. *J Neurosurg Pediatr*. 2019 Nov 8;1-9. doi: 10.3171/2019.8.PEDS19148. Epub ahead of print. PMID: 31703206.
250. **Chandra PS**, Subianto H, Bajaj J, Girishan S, Doddamani R, Ramanujam B, Chouhan MS, Garg A, Tripathi M, Bal CS, Sarkar C, Dwivedi R, Sapra S, Tripathi M. Endoscope-assisted (with robotic guidance and using a hybrid technique) interhemispheric transcallosal hemispherotomy: a comparative study with open hemispherotomy to evaluate efficacy, complications, and outcome. *J Neurosurg Pediatr*. 2018 Nov 9;23(2):187-197. doi: 10.3171/2018.8.PEDS18131. PMID: 30497135.
251. **Chandra PS**. The Unbearable Suffering Followed by Ineffable Relief of a Good Doctor: Tuberculosis as a Malady, Still Rules the Roost. *Neurol India*. 2019 Nov-Dec;67(6):1405-1407. doi: 10.4103/0028-3886.273619. PMID: 31857524.

252. **Chandra PS**, Kaur KD. Development of a Unique Retractor for Performing Endoscopic Pituitary Surgery-EASYTRAC. *Neurol India*. 2019 Nov-Dec;67(6):1509-1512. doi: 10.4103/0028-3886.273609. PMID: 31857547.
253. Kumar K, Banerjee J, Tripathi M, **Chandra PS**, Dixit AB. Epigenetic Regulation of mTOR Pathway in Malformations of Cortical Development. *Neurol India*. 2019 Nov-Dec;67(6):1472-1473. doi: 10.4103/0028-3886.273613. PMID: 31857538.
254. Bora S, Kumar A, Mishra S, Satyarthee GD, Singh PK, Sawarkar D, Verma S, Borkar S, Sharma R, **Chandra SP**, Kale SS. Intracranial aspergillosis amongst immunocompetent patients: An experience with combined surgical and medical management of 18 patients. *Clin Neurol Neurosurg*. 2019 Nov;186:105511. doi: 10.1016/j.clineuro.2019.105511. Epub 2019 Sep 3. PMID: 31505434.
255. Swami P, Bhatia M, Tripathi M, **Chandra PS**, Panigrahi BK, Gandhi TK. Selection of optimum frequency bands for detection of epileptiform patterns. *Healthc Technol Lett*. 2019 Jul 26;6(5):126-131. doi: 10.1049/htl.2018.5051. PMID: 31839968; PMCID: PMC6849498.
256. Dagar A, **Chandra PS**, Chaudhary K, Avnish C, Bal CS, Gaikwad S, Garg A, Sarkar C, Srivastava A, Padma MV, Rekha D, Gulati S, Paul V, Prasad K, Singh MB, Tripathi M. Epilepsy surgery in a pediatric population: a retrospective study of 129 children from a tertiary care hospital in a developing country along with assessment of quality of life. *Pediatr Neurosurg*. 2011;47(3):186-93. doi: 10.1159/000334257. Epub 2011 Dec 29. PMID: 22213776.
257. Kumar A, Shete V, Singh M, Satyarthee GD, Agrawal D, Singh PK, Sharma MC, **Chandra PS**, Laythalling RK, Suri A, Kale SS. Intracranial Meningeal Hemangiopericytomas: An Analysis of Factors Affecting Outcome in 39 Cases Managed with Multimodality Treatment. *Neurol India*. 2019 Sep-Oct;67(5):1266-1273. doi: 10.4103/0028-3886.271251. PMID: 31744956.
258. Doddamani RS, **Chandra PS**. Aneurysmal SAH "A Riddle Wrapped Up in Enigma". *Neurol India*. 2019 Sep-Oct;67(5):1290-1291. doi: 10.4103/0028-3886.271282. PMID: 31744961.
259. Agrawal M, Dharanipathy S, Nakra T, Garg K, Gurjar H, Mishra S, Singh M, **Chandra PS**. Supratentorial Neurenteric Cyst: A Rare Differential for a Frontal Cyst. *World Neurosurg*. 2019 Sep;129:140-142. doi: 10.1016/j.wneu.2019.05.246. Epub 2019 Jun 7. PMID: 31426248.
260. Sreenivasan SA, Garg K, Nambirajan A, Suri V, Singh M, **Sarat Chandra P**. Rosette-forming glioneuronal tumour of dorsolumbar spinal cord. *Childs Nerv Syst*. 2019 Aug;35(8):1277-1279. doi: 10.1007/s00381-019-04200-5. Epub 2019 May 24. PMID: 31127342.
261. Tandon V, **Chandra PS**, Singla R, Bajaj J, Kakkar A, Sharma MC, Mahapatra AK, Tripathi M. Drug Refractory Epilepsy - A Series of Lesions with Triple Pathology. *Neurol India*. 2019 Jul-Aug;67(4):1093-1096. doi: 10.4103/0028-3886.266289. PMID: 31512643.
262. **Chandra PS**. We Stand on the Shoulders of Our Teachers ... So that We Can See Further *Neurol India*. 2019 Jul-Aug;67(4):964-965. doi: 10.4103/0028-3886.266286. PMID: 31512615.

263. Bajaj J, **Chandra SP**, Ramanujam B, Girishan S, Doddamani R, Tripathi M. Need of Immediate Drug Reduction after Epilepsy Surgery - A Prospective Observational Study. *Neurol India*. 2019 Jul-Aug;67(4):1050-1053. doi: 10.4103/0028-3886.266282. PMID: 31512632.
264. **Sarat Chandra P**. Craniovertebral Junction Anomalies: Changing Paradigms, Shifting Perceptions: Where Are We and Where Are We Going? *Neurospine*. 2019 Jun;16(2):209-211. doi: 10.14245/ns.19edi.004. Epub 2019 Jun 30. PMID: 31261455; PMCID: PMC6603840.
265. Doddamani RS, Sawarkar D, Meena RK, Gurjar H, Singh PK, Singh M, **Chandra PS**, Sathyarthee G. Remote Cerebellar Hemorrhage Following Surgery for Supratentorial Lesions. *World Neurosurg*. 2019 Jun;126:e351-e359. doi: 10.1016/j.wneu.2019.02.053. Epub 2019 Feb 26. PMID: 30822579.
266. Sharma R, Garg K, Katiyar V, Tandon V, Agarwal D, Singh M, **Chandra SP**, Suri A, Kale SS, Mahapatra AK. The role of mifepristone in the management of meningiomas: A systematic review of literature. *Neurol India*. 2019 May-Jun;67(3):698-705. doi: 10.4103/0028-3886.263232. PMID: 31347538.
267. Darbari S, Meena RK, Sawarkar D, Doddamani RS, Singh M, **Chandra PS**. Intraventricular Meningioma Presenting as Lateral Posterior Choroidal Artery Stroke. *World Neurosurg*. 2019 May;125:364-367. doi: 10.1016/j.wneu.2019.02.055. Epub 2019 Feb 26. PMID: 30822588.
268. Bindra A, Kaushal A, Prabhakar H, Chaturvedi A, **Chandra PS**, Tripathi M, Subbiah V, Sathianathan S, Banerjee J, Prakash C. Neuroprotective role of dexmedetomidine in epilepsy surgery: A preliminary study. *Neurol India*. 2019 Jan-Feb;67(1):163-168. doi: 10.4103/0028-3886.253616. PMID: 30860117.
269. Dash C, Moorthy S, Garg K, Singh PK, Kumar A, Gurjar H, **Chandra PS**, Kale SS. Management of Choroid Plexus Tumors in Infants and Young Children Up to 4 Years of Age: An Institutional Experience. *World Neurosurg*. 2019 Jan;121:e237-e245. doi: 10.1016/j.wneu.2018.09.089. Epub 2018 Sep 24. PMID: 30261376.
270. **Chandra PS**, Bajaj J, Singh PK, et al. Basilar invagination and atlanto axial dislocation: reduction, deformity correction and realignment using the DCER (distraction, compression, extension and reduction) technique with customized instrumentation and implants. *Neurospine*. 2019;16(2):231-250.

Year Of 2018

271. **Chandra PS**, Singh P. Reply to the letter to editor regarding the article "Treatment of vertebral body hemangiomas with direct ethanol injection and short segment stabilization". *Spine J*. 2018 Dec;18(12):2372-2373. doi: 10.1016/j.spinee.2018.07.011. PMID: 30551848.
272. Sreenivasan SA, Garg K, Mishra S, Singh PK, Singh M, **Chandra PS**. Letter to the Editor. Local steroid application during anterior cervical discectomy and fusion. *J Neurosurg Spine*. 2018 Nov 2;30(2):296-297. doi: 10.3171/2018.8.SPINE181048. PMID: 30485190.

273. Kumar A, Varshney G, Singh PK, Agrawal D, Satyarthee GD, **Chandra PS**, Kale SS, Mahapatra AK. Traumatic Atlantoaxial Spondyloptosis Associated with Displaced Odontoid Fracture: Complete Reduction via Posterior Approach Using "Joint Remodeling" Technique. *World Neurosurg*. 2018 Feb;110:609-613.
274. Sreenivasan SA, Garg K, Singh M, **Chandra PS**. Letter to the Editor. Cervical intramedullary tumor resection and kyphotic malalignment. *J Neurosurg Spine*. 2018 Sep;29(3):348-350. doi: 10.3171/2018.1.SPINE1896. Epub 2018 Jun 1. PMID: 29856304.
275. 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 Hemorrhage: A Prospective, Randomized controlled study. *Asian J Neurosurg*. 2018 Apr-Jun;13(2):238-246. doi: 10.4103/1793-5482.228512. PMID: 29682015; PMCID: PMC5898086.
276. Mankotia DS, Sawarkar DP, Singh PK, Kumar A, Verma SK, **Chandra PS**, Kale SS. Rare Case of Cerebrospinal Fluid Proctorrhea Caused by Anterior Sacral Meningocele with Rectothecal Fistula. *World Neurosurg*. 2018 Jun;114:323-325. doi: 10.1016/j.wneu.2018.03.087. Epub 2018 Mar 20. PMID: 29572171.
277. Tandon V, Lang M, **Chandra PS**, Sharan A, Garg A, Tripathi M. Is Edema a Matter of Concern After Laser Ablation of Epileptogenic Focus? *World Neurosurg*. 2018 May;113:366-372.e3. doi: 10.1016/j.wneu.2018.01.201. Epub 2018 Feb 6. PMID: 29425986.
278. Tandon V, **Chandra PS**, Doddamani RS, Subianto H, Bajaj J, Garg A, Tripathi M. Stereotactic Radiofrequency Thermocoagulation of Hypothalamic Hamartoma Using Robotic Guidance (ROSA) Coregistered with O-arm Guidance-Preliminary Technical Note. *World Neurosurg*. 2018 Apr;112:267-274. doi: 10.1016/j.wneu.2018.01.193. Epub 2018 Feb 3. PMID: 29408592.
279. Bajaj J, Tripathi M, Dwivedi R, Sapra S, Gulati S, Garg A, Tripathi M, Bal CS, **Chandra SP**. Does surgery help in reducing stigma associated with drug refractory epilepsy in children? *Epilepsy Behav*. 2018 Mar;80:197-201. doi: 10.1016/j.yebeh.2018.01.010. Epub 2018 Feb 3. PMID: 29414552.
280. Kumar S, Ramanujam B, **Chandra PS**, Dash D, Mehta S, Anubha S, Appukutan R, Rana MK, Tripathi M. Randomized controlled study comparing the efficacy of rapid and slow withdrawal of antiepileptic drugs during long-term video-EEG monitoring. *Epilepsia*. 2018 Feb;59(2):460-467. doi: 10.1111/epi.13966. Epub 2017 Dec 7. PMID: 29218705.
281. Kumawat R, Gowda SH, Debnath E, Rashid S, Niwas R, Gupta Y, Upadaya AD, Suri A, **Chandra PS**, Gupta DK, Lakshmy R, Sarkar C, Sinha S, Chosdol K. Association of Single Nucleotide Polymorphisms (SNPs) in Genes Encoding for Folate Metabolising Enzymes with Glioma and Meningioma in Indian Population. *Asian Pac J Cancer Prev*. 2018 Dec 25;19(12):3415-3425. doi: 10.31557/APJCP.2018.19.12.3415. PMID: 30583664; PMCID: PMC6428555.
282. **Chandra PS**, Ramanujam B, Tripathi M. Surgery for drug-resistant epilepsy in children. *N Engl J Med*. 2018;378:399. - DOI
283. Tandon V, **Chandra PS**, Doddamani RS, Subianto H, Bajaj J, Garg A, Tripathi M (2018) Stereotactic radiofrequency thermocoagulation of hypothalamic hamartoma using robotic

guidance (ROSA) coregistered with O-arm guidance-preliminary technical note. *World Neurosurg* 112:267–274

284. **Chandra PS**, Ramanujam B, Tripathi M. Surgery for Drug-Resistant Epilepsy in Children. *N Engl J Med*. 2018 Jan 25;378(4):399. doi: 10.1056/NEJMc1715424. PMID: 29365299.
285. Paul D, Dixit A, Srivastava A, Tripathi M, Prakash D, Sarkar C, Ramanujam B, Banerjee J, **Chandra PS**. Altered transforming growth factor beta/SMAD3 signalling in patients with hippocampal sclerosis. *Epilepsy Res*. 2018 Oct;146:144-150. doi: 10.1016/j.epilepsyres.2018.08.004. Epub 2018 Aug 20. PMID: 30153648.

Year Of 2017

286. Choudhary N, Deepak KK, **Chandra PS**, Bhatia S, Sagar R, Jaryal AK, Pandey RM, Tripathi M. Comparison of Autonomic Function before and after Surgical Intervention in Patients with Temporal Lobe Epilepsy. *J Epilepsy Res*. 2017 Dec 31;7(2):89-98. doi: 10.14581/jer.17014. PMID: 29344466; PMCID: PMC5767494.
287. Mukherjee S, Tripathi M, **Chandra PS**, Yadav R, Choudhary N, Sagar R, Bhore R, Pandey RM, Deepak KK. Cardiovascular autonomic functions in well-controlled and intractable partial epilepsies. *Epilepsy Res*. 2009 Aug;85(2-3):261-9. doi: 10.1016/j.epilepsyres.2009.03.021. Epub 2009 May 5. PMID: 19409754.
288. Satyarthee GD, **Chandra PS**, Sharma BS, Mehta VS. Comparison of Stereotactic and Ultrasound-guided Biopsy of Solid Supratentorial Tumor: A Preliminary Report. *Asian J Neurosurg*. 2017 Oct-Dec;12(4):664-669. doi: 10.4103/1793-5482.215765. PMID: 29114280; PMCID: PMC5652092.
289. Srivastava A, Dixit AB, Paul D, Tripathi M, Sarkar C, **Chandra PS**, Banerjee J. Comparative analysis of cytokine/chemokine regulatory networks in patients with hippocampal sclerosis (HS) and focal cortical dysplasia (FCD). *Sci Rep*. 2017 Nov 21;7(1):15904. doi: 10.1038/s41598-017-16041-w. PMID: 29162878; PMCID: PMC5698416.
290. Srivastava A, Dixit AB, Tripathi M, **Sarat Chandra P**, Banerjee J. Quantification of Neuroinflammatory Markers in Blood, Cerebrospinal Fluid, and Resected Brain Samples Obtained from Patients. *Methods Mol Biol*. 2024;2761:67-79. doi: 10.1007/978-1-0716-3662-6_6. PMID: 38427230.
291. Kumar A, Singh M, Sharma MC, **Chandra PS**, Sharma BS, Mahapatra AK. Giant Bicompartamental Cystic Tentorial Schwannoma Mimicking a Meningioma. *World Neurosurg*. 2017 Sep;105:1038.e17-1038.e22. doi: 10.1016/j.wneu.2017.06.077. Epub 2017 Jun 20. PMID: 28642183.
292. Ray S, Tripathi M, **Chandra SP**, Chakravarty K. Protocols in contemporary epilepsy surgery-a short communication. *Int J Surg*. 2017 Aug;44:350-352. doi: 10.1016/j.ijsu.2017.06.076. Epub 2017 Jun 22. PMID: 28648797.
293. Koyalmantham V, Garg K, Sardana H, Singh M, **Chandra PS**. Holmes' tremor secondary to a posterior third ventricular germinoma: a rare case report. *Childs Nerv Syst*. 2017 Jun;33(6):885-887. doi: 10.1007/s00381-017-3425-y. Epub 2017 May 3. PMID: 28470382.
294. Sharma R, Garg K, Agarwal S, Agarwal D, Chandra PS, Kale SS, Sharma BS, Mahapatra AK. Microvascular decompression for hemifacial spasm: A systematic review of vascular

- pathology, long term treatment efficacy and safety. *Neurol India*. 2017 May-Jun;65(3):493-505. doi: 10.4103/neuroindia.NI_1166_16. PMID: 28488609.
295. Baumgartner JE, Blount JP, Blauwblomme T, **Chandra PS**. Technical descriptions of four hemispherectomy approaches: From the Pediatric Epilepsy Surgery Meeting at Gothenburg 2014. *Epilepsia*. 2017 Apr;58 Suppl 1:46-55. doi: 10.1111/epi.13679. PMID: 28386922.
 296. Banerjee Dixit A, Sharma D, Srivastava A, Banerjee J, Tripathi M, Prakash D, **Sarat Chandra P**. Upregulation of breast cancer resistance protein and major vault protein in drug resistant epilepsy. *Seizure*. 2017 Apr;47:9-12. doi: 10.1016/j.seizure.2017.02.014. Epub 2017 Feb 27. PMID: 28273590.
 297. **Chandra PS**, Singh P. In Reply: Distraction, Compression, Extension, and Reduction Combined With Joint Remodeling and Extra-articular Distraction: Description of 2 New Modifications for Its Application in Basilar Invagination and Atlantoaxial Dislocation: Prospective Study in 79 Cases. *Neurosurgery*. 2017 Apr 1;80(4):231-235. doi: 10.1093/neuros/nyw116. PMID: 28362924.
 298. Guha S, Sethi R, Ray S, Bahl VK, Shanmugasundaram S, Kerkar P, Ramakrishnan S, Yadav R, Chaudhary G, Kapoor A, Mahajan A, Sinha AK, Mullasari A, Pradhan A, Banerjee AK, Singh BP, Balachander J, Pinto B, Manjunath CN, Makhale C, Roy D, Kahali D, Zachariah G, Wander GS, Kalita HC, Chopra HK, Jabir A, Tharakan J, Paul J, Venogopal K, Baksi KB, Ganguly K, Goswami KC, Somasundaram M, Chhetri MK, Hiremath MS, Ravi MS, Das MK, Khanna NN, Jayagopal PB, Asokan PK, Deb PK, Mohanan PP, Chandra P, Girish CR, Rabindra Nath O, Gupta R, Raghu C, Dani S, Bansal S, Tyagi S, Routray S, Tewari S, **Chandra PS**, Mishra SS, Datta S, Chatterjee SS, Kumar S, Mookerjee S, Victor SM, Mishra S, Alexander T, Samal UC, Trehan V. Cardiological Society of India: Position statement for the management of ST elevation myocardial infarction in India. *Indian Heart J*. 2017 Apr;69 Suppl 1(Suppl 1):S63-S97. doi: 10.1016/j.ihj.2017.03.006. Epub 2017 Mar 23. PMID: 28400042; PMCID: PMC5388060.
 299. Banerjee J, BanerjeeDixit A, Srivastava A, Ramanujam B, Kakkar A, Sarkar C, Tripathi M, **Chandra PS**. Altered glutamatergic tone reveals two distinct resting state networks at the cellular level in hippocampal sclerosis. *Sci Rep*. 2017 Mar 23;7(1):319. doi: 10.1038/s41598-017-00358-7. PMID: 28336943; PMCID: PMC5428248.
 300. Dixit AB, Banerjee J, **Chandra PS**, Tripathi M. Recent advances in Epilepsy Research in India. *Neurol India*. 2017;65(Supplement):S83-S92. doi: 10.4103/neuroindia.NI_1070_16. PMID: 28281500.
 301. Tandon V, Raheja A, Suri A, **Chandra PS**, Kale SS, Kumar R, Garg A, Kalaivani M, Pandey RM, Sharma BS. Randomized trial for superiority of high field strength intra-operative magnetic resonance imaging guided resection in pituitary surgery. *J Clin Neurosci*. 2017 Mar;37:96-103. doi: 10.1016/j.jocn.2016.10.044. Epub 2016 Nov 18. PMID: 27876186.
 302. Raheja A, Tandon V, Suri A, **Sarat Chandra P**, Kale SS, Garg A, Pandey RM, Kalaivani M, Mahapatra AK, Sharma BS. Initial experience of using high field strength intraoperative

- MRI for neurosurgical procedures. J Clin Neurosci. 2015 Aug;22(8):1326-31. doi: 10.1016/j.jocn.2015.02.027. Epub 2015 Jun 12. PMID: 26077939.
303. Ramanujam B, Bharti K, Viswanathan V, Garg A, Tripathi M, Bal C, **Chandra PS**, Tripathi M. Can ictal-MEG obviate the need for phase II monitoring in people with drug-refractory epilepsy? A prospective observational study. Seizure. 2017 Feb;45:17-23. doi: 10.1016/j.seizure.2016.10.013. Epub 2016 Oct 31. PMID: 27912111.
 304. Dixit AB, Banerjee J, Tripathi M, Sarkar C, **Chandra PS**. Synaptic roles of cyclin-dependent kinase 5 & its implications in epilepsy. Indian J Med Res. 2017 Feb;145(2):179-188. doi: 10.4103/ijmr.IJMR_1249_14. PMID: 28639593; PMCID: PMC5501049.
 305. Chaudhari RM, Ramanujam B, Appukuttan R, Sharma A, Kunwar Y, Tejaniya G, Garg A, Padma MV, Tripathi M, Bal C, Dash D, **Chandra SP**, Tripathi M. Utility of a questionnaire tool (QUARAS) for localizing and lateralizing seizures in the epilepsy monitoring unit (EMU). Clin Neurol Neurosurg. 2017 Feb;153:64-66. doi: 10.1016/j.clineuro.2016.12.012. Epub 2016 Dec 22. PMID: 28043024.
 306. Dwivedi R, Ramanujam B, **Chandra PS** et al (2017) Surgery for drug-resistant epilepsy in children. N Engl J Med 377:1639–1647. <https://doi.org/10.1056/NEJMoa1615335> - DOI - PubMed
 307. Dwivedi R, Ramanujam B, **Chandra PS**, Sapra S, Gulati S, Kalaivani M, et al. Surgery for drug-resistant epilepsy in children. N Engl J Med 2017;377:1639–47
 308. Dwivedi R, Ramanujam B, **Chandra PS**, et al. Surgery for drug-resistant epilepsy in children. N Engl J Med. 2017;377:1639–47. - DOI
 309. Dwivedi R, Ramanujam B, **Chandra PS**, Sapra S, Gulati S, Kalaivani M, Garg A, Bal CS, Tripathi M, Dwivedi SN, Sagar R, Sarkar C, Tripathi M. Surgery for Drug-Resistant Epilepsy in Children. N Engl J Med. 2017 Oct 26;377(17):1639-1647. doi: 10.1056/NEJMoa1615335. PMID: 29069568.

Year Of 2016

310. Tandon V, Bansal S, **Chandra PS**, Suri A, Tripathi M, Sharma MC, Sarkari A, Mahapatra AK. Ganglioglioma: Single-institutional experience of 24 cases with review of literature. Asian J Neurosurg. 2016 Oct-Dec;11(4):407-411. doi: 10.4103/1793-5482.153500. PMID: 27695546; PMCID: PMC4974967.
311. Tripathi M, Ray S, **Chandra PS**. Presurgical evaluation for drug refractory epilepsy. Int J Surg. 2016 Dec;36(Pt B):405-410. doi: 10.1016/j.ijssu.2016.10.044. Epub 2016 Nov 2. PMID: 27816707.
312. Khullar S, **Chandra PS**, Doddamani RS, Kapil A, Dhawan B. Chronic Osteomyelitis of Skull due to *Pseudomonasaeruginosa*: A Delayed Uncommon Complication Following Craniotomy. J Clin Diagn Res. 2016 Dec;10(12):DL01-DL02. doi: 10.7860/JCDR/2016/23335.9022. Epub 2016 Dec 1. PMID: 28208860; PMCID: PMC5296433.
313. Dixit AB, Tripathi M, **Chandra PS**, Banerjee J. Molecular biomarkers in drug-resistant epilepsy: Facts & possibilities. Int J Surg. 2016 Dec;36(Pt B):483-491. doi: 10.1016/j.ijssu.2015.08.029. Epub 2015 Aug 22. PMID: 26306771.

314. Banerjee J, **Chandra SP**, Kurwale N, Tripathi M. Epileptogenic networks and drug-resistant epilepsy: Present and future perspectives of epilepsy research-Utility for the epileptologist and the epilepsy surgeon. *Ann Indian Acad Neurol*. 2014 Mar;17(Suppl 1):S134-40. doi: 10.4103/0972-2327.128688. PMID: 24791082; PMCID: PMC4001228.
315. Chaudhari RM, Dash D, Ramanujam B, Rana MK, Appukuttan R, Sharma A, Kunwar Y, Tejaniya G, Padma V, **Chandra SP**, Tripathi M. Evaluation of Ictal Consciousness in Temporal and Extra Temporal Epilepsy: Observations from a Tertiary Care Hospital in India. *J Epilepsy Res*. 2016 Dec 31;6(2):93-96. doi: 10.14581/jer.16017. PMID: 28101481; PMCID: PMC5206106.
316. Kurwale N, Garg K, Arora A, **Chandra PS**, Tripathi M. Valproic acid as an antiepileptic drug: Is there a clinical relevance for the epilepsy surgeon? *Epilepsy Res*. 2016 Nov;127:191-194. doi: 10.1016/j.epilepsyres.2016.09.005. Epub 2016 Sep 4. PMID: 27610748.
317. Verma SK, Sinha S, Sawarkar DP, Singh PK, Gupta D, Agarwal D, Satyarthee G, Kumar R, Singh M, Suri A, **Chandra PS**, Kale SS, Sharma BS. Medial sphenoid wing meningiomas: Experience with microsurgical resection over 5 years and a review of literature. *Neurol India*. 2016 May-Jun;64(3):465-75. doi: 10.4103/0028-3886.181548. PMID: 27147155.
318. Dixit AB, Banerjee J, Ansari A, Tripathi M, **Chandra SP**. Mutations in GABRG2 receptor gene are not a major factor in the pathogenesis of mesial temporal lobe epilepsy in Indian population. *Ann Indian Acad Neurol*. 2016 Apr-Jun;19(2):236-41. doi: 10.4103/0972-2327.182304. PMID: 27293336; PMCID: PMC4888688.
319. Malhotra V, **Chandra SP**, Dash D, Garg A, Tripathi M, Bal CS, Tripathi M. A screening tool to identify surgical candidates with drug refractory epilepsy in a resource limited settings. *Epilepsy Res*. 2016 Mar;121:14-20. doi: 10.1016/j.epilepsyres.2015.12.001. Epub 2016 Jan 23. PMID: 26855366.
320. Tripathi M, Dixit A, **Chandra PS**. Galectin-3, an important yet unexplored molecule in drug resistant epilepsy. *Neurol India*. 2016 Mar-Apr;64(2):237-8. doi: 10.4103/0028-3886.177600. PMID: 26954799.
321. Singh PK, **Chandra PS**, Vaghani G, Savarkar DP, Garg K, Kumar R, Kale SS, Sharma BS. Management of pediatric single-level vertebral hemangiomas presenting with myelopathy by three-pronged approach (ethanol embolization, laminectomy, and instrumentation): a single-institute experience. *Childs Nerv*
322. Srivastava A, Dixit AB, Banerjee J, Tripathi M, **Sarat Chandra P**. Role of inflammation and its miRNA based regulation in epilepsy: Implications for therapy. *Clin Chim Acta*. 2016 Jan 15;452:1-9. doi: 10.1016/j.cca.2015.10.023. Epub 2015 Oct 23. PMID: 26506013.
323. Garg K, Gurjar HK, Singh PK, Singh M, **Chandra PS**, Sharma BS. Internal Carotid Artery Aneurysms Presenting with Epistaxis - Our Experience and Review of Literature. *Turk Neurosurg*. 2016;26(3):357-63. doi: 10.5137/1019-5149.JTN.12598-14.1. PMID: 27161461.
324. Mankotia DS, Sardana H, Sinha S, Sharma BS, Suri A, Borkar SA, Satyarthee GD, **Chandra PS**. Pediatric interhemispheric arachnoid cyst: An institutional experience. *J Pediatr Neurosci*. 2016 Jan-Mar;11(1):29-34. doi: 10.4103/1817-1745.181258. PMID: 27195030; PMCID: PMC4862285.

325. Garg K, Tandon V, Sharma S, Suri A, **Chandra PS**, Kumar R, Mahapatra AK, Sharma BS. Quadrigeminal cistern arachnoid cyst: A series of 18 patients and a review of literature. *Br J Neurosurg*. 2015 Feb;29(1):70-76. doi: 10.3109/02688697.2014.957646. Epub 2014 Sep 12. PMID: 25215563.

Year Of 2015

326. **Chandra SP**. In Reply to the Letter to the Editor regarding Analysis of Changing Paradigms of Management in 179 Patients with Spinal Tuberculosis During a 12-Year Period and Proposal of a New Management Algorithm. *World Neurosurg*. 2015 Dec;84(6):2072-3. doi: 10.1016/j.wneu.2015.07.028. PMID: 26674554.
327. **Chandra SP**, Singh A, Goyal N, Laythalling RK, Singh M, Kale SS, Sharma MS, Suri A, Singh P, Garg A, Sarkar C, Tripathi M, Sharma BS, Mahapatra AK. Analysis of changing paradigms of management in 179 patients with spinal tuberculosis over a 12-year period and proposal of a new management algorithm. *World Neurosurg*. 2013 Jul-Aug;80(1-2):190-203. doi: 10.1016/j.wneu.2012.12.019. Epub 2013 Jan 22. PMID: 23348057.
328. Dixit AB, Banerjee J, Tripathi M, **Chandra PS**. Presurgical epileptogenic network analysis: A way to enhance epilepsy surgery outcome. *Neurol India*. 2015 Sep-Oct;63(5):743-50. doi: 10.4103/0028-3886.166546. PMID: 26448235.
329. **Chandra SP**, Tripathi M. Endoscopic epilepsy surgery: Emergence of a new procedure. *Neurol India*. 2015 Jul-Aug;63(4):571-82. doi: 10.4103/0028-3886.162056. PMID: 26238894.
330. **Chandra PS**, Kurwale N, Garg A, Dwivedi R, Malviya SV, Tripathi M. Endoscopy-assisted interhemispheric transcallosal hemispherotomy: preliminary description of a novel technique. *Neurosurgery*. 2015 Apr;76(4):485-94; discussion 494-5. doi: 10.1227/NEU.0000000000000675. PMID: 25710106.
331. Kurwale NS, **Chandra SP**, Chouksey P, Arora A, Garg A, Sarkar C, Bal C, Tripathi M. Impact of intraoperative MRI on outcomes in epilepsy surgery: preliminary experience of two years. *Br J Neurosurg*. 2015 Jun;29(3):380-5. doi: 10.3109/02688697.2014.1003034. Epub 2015 Feb 7. PMID: 25659959.
332. Sokhal N, Rath GP, Chaturvedi A, Dash HH, Bithal PK, **Chandra PS**. Anaesthesia for awake craniotomy: A retrospective study of 54 cases. *Indian J Anaesth*. 2015 May;59(5):300-5. doi: 10.4103/0019-5049.156878. PMID: 26019355; PMCID: PMC4445152.
333. Bindra A, Chouhan RS, Prabhakar H, **Chandra PS**, Tripathi M. Perioperative anesthetic implications of epilepsy surgery: a retrospective analysis. *J Anesth*. 2015 Apr;29(2):229-34. doi: 10.1007/s00540-014-1919-2. Epub 2014 Oct 7. PMID: Chandra PS, Singh PK, Goyal V, Chauhan AK, Thakkur N, Tripathi M. Early versus delayed endoscopic surgery for carpal tunnel syndrome: prospective randomized study. *World Neurosurg*. 2013 May-Jun;79(5-6):767-72. doi: 10.1016/j.wneu.2012.08.008. Epub 2012 Sep 25. PMID: 23022645..
334. Irshad K, Mohapatra SK, Srivastava C, Garg H, Mishra S, Dikshit B, Sarkar C, Gupta D, **Chandra PS**, Chattopadhyay P, Sinha S, Chosdol K. A combined gene signature of hypoxia and notch pathway in human glioblastoma and its prognostic relevance. *PLoS One*. 2015

Mar 3;10(3):e0118201. doi: 10.1371/journal.pone.0118201. PMID: 25734817; PMCID: PMC4348203.

335. Banerjee J., Banerjee Dixit A., Tripathi M., Sarkar C., Gupta Y. K., **Chandra P. S.** (2015). Enhanced endogenous activation of NMDA receptors in pyramidal neurons of hippocampal tissues from patients with mesial temporal lobe epilepsy: a mechanism of hyper excitation. *Epilepsy Res.* 117 11–16. 10.1016/j.eplesyres.2015.08.007
336. Bindra A, Chouhan RS, Prabhakar H, **Chandra PS**, Tripathi M. Perioperative anesthetic implications of epilepsy surgery: a retrospective analysis. *J Anesth.* 2015 Apr;29(2):229–34. doi: 10.1007/s00540-014-1919-2. Epub 2014 Oct 7. PMID: 25288505.
337. **Chandra PS.** In reply: different facets in management of congenital atlantoaxial dislocation and basilar invagination *Neurosurgery* 2015. 77 E987 E988
338. **Chandra PS.** In reply: distraction, compression, and extension reduction of basilar invagination and atlantoaxial dislocation *Neurosurgery* 2015. 76 E240 E242
339. **Chandra PS**, Goyal N. In reply: the severity of basilar invagination and atlantoaxial dislocation correlates with sagittal joint inclination, coronal joint inclination, and craniocervical tilt: a description of new indices for the craniovertebral junction *Neurosurgery* 2015. 76 E235 E239
340. **Chandra PS.** In reply: different facets in management of congenital atlantoaxial dislocation and basilar invagination *Neurosurgery* 2015a. 77 6 E987 E988
341. **Chandra PS.** In reply: distraction, compression, and extension reduction of basilar invagination and atlantoaxial dislocation *Neurosurgery* 2015b. 76 2 E240 E242
342. **Chandra PS**, Goyal N. In reply: the severity of basilar invagination and atlantoaxial dislocation correlates with sagittal joint inclination, coronal joint inclination, and craniocervical tilt: a description of new indices for the craniovertebral junction *Neurosurgery* 2015. 76 2 E235 E239
343. **Chandra PS.** In Reply: Different Facets in management of congenital atlantoaxial dislocation and basilar invagination. *Neurosurgery.* 2015;77:E987–8.
344. **Chandra PS.** In reply: distraction, compression, and extension reduction of basilar invagination and atlantoaxial dislocation. *Neurosurgery.* 2015;76:E240–2.
345. **Chandra PS**, Goyal N. In reply: the severity of basilar invagination and atlantoaxial dislocation correlates with sagittal joint inclination, coronal joint inclination, and craniocervical tilt: a description of new indices for the craniovertebral junction. *Neurosurgery.* 2015;76:E235–9.

Year Of 2014

346. **Chandra PS**, Vaghania G, Bal CS, Tripathi M, Kuruwale N, Arora A, Garg A, Sarkar C, Diwedi R, Malviya S, Padma V, Tripathi M. Role of concordance between ictal-subtracted SPECT and PET in predicting long-term outcomes after epilepsy surgery. *Epilepsy Res.* 2014 Dec;108(10):1782–9. doi: 10.1016/j.eplesyres.2014.09.024. Epub 2014 Sep 28. PMID: 25308754.
347. Kakkar A, Sharma MC, Suri V, Kaushal S, **Chandra SP**, Garg A, Sarkar C. Angiocentric glioma: a treatable cause of epilepsy: report of a rare case. *Neurol India.* 2014 Nov-Dec;62(6):677–9. doi: 10.4103/0028-3886.149405. PMID: 25591686.

348. Garg K, Satyarthee GD, Dash C, Singh PK, **Chandra PS**, Sharma BS. Hyperplasia of cervical spinous process presenting as subcutaneous mass. *Indian J Pediatr.* 2014 Oct;81(10):1128-30. doi: 10.1007/s12098-013-1315-1. Epub 2013 Dec 22. PMID: 24362957.
349. Garg K, Gurjar HK, **Chandra PS**, Sharma BS. Pentapathology in neurofibromatosis 1. *Indian J Pediatr.* 2014 Sep;81(9):980-1. doi: 10.1007/s12098-013-1270-x. Epub 2013 Dec 22. PMID: 24362955.
350. Bisht A, Suri A, Bansal S, **Chandra PS**, Kumar R, Singh M, Sharma BS. Factors affecting surgical outcome of endoscopic third ventriculostomy in congenital hydrocephalus. *J Clin Neurosci.* 2014 Sep;21(9):1483-9. doi: 10.1016/j.jocn.2013.12.033. Epub 2014 Jun 9. PMID: 24923872.
351. **Chandra SP**, Ramdurg SR, Kurwale N, Chauhan A, Ansari A, Garg A, Sarkar C, Sharma BS. Extended costotransversectomy to achieve circumferential fusion for pathologies causing thoracic instability. *Spine J.* 2014 Sep 1;14(9):2094-101. doi: 10.1016/j.spinee.2013.12.028. Epub 2014 Jan 18. PMID: 24448191.
352. Garg K, Gurjar HK, **Chandra PS**, Sharma BS. Suprasellar tuberculoma. *Br J Neurosurg.* 2014 Aug;28(4):562-3. doi: 10.3109/02688697.2013.857009. Epub 2013 Nov 8. PMID: 24199967.
353. **Chandra SP**, Bal CS, Jain S, Joshua SP, Gaikwad S, Garg A, Ansari A, Nehra A, Sarkar C, Tripathi M. Intraoperative coregistration of magnetic resonance imaging, positron emission tomography, and electrocorticographic data for neocortical lesional epilepsies may improve the localization of the epileptogenic focus: a pilot study. *World Neurosurg.* 2014 Jul-Aug;82(1-2):110-7. doi: 10.1016/j.wneu.2013.02.057. Epub 2013 Feb 21. PMID: 23438971.
354. Chaudhary K, Kumaran SS, **Chandra SP**, Wadhawan AN, Tripathi M. Mapping of cognitive functions in chronic intractable epilepsy: Role of fMRI. *Indian J Radiol Imaging.* 2014 Jan;24(1):51-6. doi: 10.4103/0971-3026.130694. PMID: 24851005; PMCID: PMC4028915.
355. Mahajan C, Chouhan RS, Rath GP, Dash HH, Suri A, **Chandra PS**, Mahajan A. Effect of intraoperative brain protection with propofol on postoperative cognition in patients undergoing temporary clipping during intracranial aneurysm surgery. *Neurol India.* 2014 May-Jun;62(3):262-8. doi: 10.4103/0028-3886.136908. PMID: 25033847.
356. Kumar A, **Chandra PS**, Sharma BS, Garg A, Rath GK, Bithal PK, Tripathi M. The role of neuronavigation-guided functional MRI and diffusion tensor tractography along with cortical stimulation in patients with eloquent cortex lesions. *Br J Neurosurg.* 2014 Apr;28(2):226-33. doi: 10.3109/02688697.2013.835370. Epub 2013 Sep 11. PMID: 24024910.
357. Sinha S, Kale SS, **Chandra SP**, Suri A, Mehta VS, Sharma BS. Brainstem gliomas: surgical indications and technical considerations in a series of 58 cases. *Br J Neurosurg.* 2014 Apr;28(2):220-5. doi: 10.3109/02688697.2013.829562. Epub 2013 Oct 21. PMID: 24144170.

358. Mehta VS, **Chandra PS**, Singh PK, Garg A, Rath GK. Surgical considerations for 'intrinsic' brainstem gliomas: proposal of a modification in classification. *Neurol India*. 2009 May-Jun;57(3):274-81. doi: 10.4103/0028-3886.53272. PMID: 19587467.
359. Suri A, Bansal S, Sharma BS, Mahapatra AK, Kale SS, **Chandra PS**, Singh M, Kumar R, Sharma MS. Management of hypoglossal schwannomas: single institutional experience of 14 cases. *J Neurol Surg B Skull Base*. 2014 Jun;75(3):159-64. doi: 10.1055/s-0033-1356924. Epub 2014 Mar 12. PMID: 25072009; PMCID: PMC4078147.
360. Desai S, Shukla G, Goyal V, Srivastava A, Srivastava MV, Tripathi M, Singh M, Shivanand K, Sagar R, Gupta A, **Sarat chandra P**, Garg A, Bal CS, Behari M. Changes in psychiatric comorbidity during early postsurgical period in patients operated for medically refractory epilepsy--a MINI-based follow-up study. *Epilepsy Behav*. 2014 Mar;32:29-33. doi: 10.1016/j.yebeh.2013.11.025. Epub 2014 Jan 24. PMID: 24463306.
361. Garg K, **Chandra PS**, Singh PK, Sharma BS. Giant craniopharyngioma: can it grow bigger than this? *Pediatr Neurosurg*. 2013;49(2):124-5. doi: 10.1159/000358094. Epub 2014 Feb 7. PMID: 24513597.
362. Goyal N, Gurjar H, Sharma BS, Tripathi M, **Chandra PS**. GAPO syndrome with pansutural craniosynostosis leading to intracranial hypertension. *BMJ Case Rep*. 2014 Jan 28;2014:bcr2013201727. doi: 10.1136/bcr-2013-201727. PMID: 24473423; PMCID: PMC3912429.
363. Goyal N, Satyarthee GD, Kakkar A, Suri V, **Chandra S**, Sharma B. Mount meningioma with tumor cap. *Turk Neurosurg*. 2014;24(3):411-4. PMID: 24848184.
364. **Chandra PS**. In reply. *Neurosurgery*. 2014 Jan;74(1):E148-50. doi: 10.1227/NEU.0000000000000165. PMID: 24030175.
365. **Chandra PS**, Goyal N, Chauhan A, et al. The severity of basilar invagination and atlantoaxial dislocation correlates with sagittal joint inclination, coronal joint inclination, and craniocervical tilt: a description of new indexes for the craniovertebral junction. *Neurosurgery*. 2014;10(suppl 4):621-630.
366. **Chandra PS**, Goyal N, Chauhan A, et al. The severity of basilar invagination and atlantoaxial dislocation correlates with sagittal joint inclination, coronal joint inclination, and craniocervical tilt: a description of new indexes for the craniovertebral junction. *Neurosurgery*. 2014;10(suppl 4):621-630.

Year Of 2013

367. Goyal N, Kakkar A, Singh PK, Sharma MC, **Chandra PS**, Mahapatra AK, Sharma BS. Intracranial teratomas in children: a clinicopathological study. *Childs Nerv Syst*. 2013 Nov;29(11):2035-42. doi: 10.1007/s00381-013-2091-y. Epub 2013 Apr 9. PMID: 23568500.
368. Kumar A, Sharma MS, Sharma BS, Bhatia R, Singh M, Garg A, Kumar R, Suri A, **Chandra PS**, Kale SS, Mahapatra AK. Outcome after decompressive craniectomy in patients with dominant middle cerebral artery infarction: A preliminary report. *Ann Indian Acad Neurol*. 2013 Oct;16(4):509-15. doi: 10.4103/0972-2327.120445. PMID: 24339569; PMCID: PMC3841590.

369. Garg K, Singh PK, Singla R, **Chandra PS**, Singh M, Satyarthhe GD, Gurjar HK, Sharma BS. Armored brain-massive bilateral calcified chronic subdural hematoma in a patient with ventriculoperitoneal shunt. *Neurol India*. 2013 Sep-Oct;61(5):548-50. doi: 10.4103/0028-3886.121950. PMID: 24262473.
370. Garg K, Gurjar HK, Singh PK, Satyarththee GD, Singh M, **Chandra PS**, Sharma BS. Spontaneous rupture of hydrocephalic head. *Neurol India*. 2013 Sep-Oct;61(5):556-8. doi: 10.4103/0028-3886.121955. PMID: 24262478.
371. Dikshit B, Irshad K, Madan E, Aggarwal N, Sarkar C, **Chandra PS**, Gupta DK, Chattopadhyay P, Sinha S, Chosdol K. FAT1 acts as an upstream regulator of oncogenic and inflammatory pathways, via PDCD4, in glioma cells. *Oncogene*. 2013 Aug 15;32(33):3798-808. doi: 10.1038/onc.2012.393. PMID: 22986533.
372. Garg K, Sinha S, Kale SS, **Chandra PS**, Suri A, Singh MM, Kumar R, Sharma MS, Pandey RM, Sharma BS, Mahapatra AK. Role of simvastatin in prevention of vasospasm and improving functional outcome after aneurysmal sub-arachnoid hemorrhage: a prospective, randomized, double-blind, placebo-controlled pilot trial. *Br J Neurosurg*. 2013 Apr;27(2):181-6. doi: 10.3109/02688697.2012.757293. Epub 2013 Jan 8. PMID: 23298376.
373. Bansal S, Ailawadhi P, Suri A, Kale SS, **Sarat Chandra P**, Singh M, Kumar R, Sharma BS, Mahapatra AK, Sharma MC, Sarkar C, Bithal P, Dash HH, Gaikwad S, Mishra NK. Ten years' experience in the management of spinal intramedullary tumors in a single institution. *J Clin Neurosci*. 2013 Feb;20(2):292-8. doi: 10.1016/j.jocn.2012.01.056. Epub 2012 Dec 28. PMID: 23274036.
374. Naik V, Phalak M, **Chandra PS**. Total intracranial shunt migration. *J Neurosci Rural Pract*. 2013 Jan;4(1):95-6. doi: 10.4103/0976-3147.105635. PMID: 23546373; PMCID: PMC3579071.
375. Garg K, Singh PK, Singh M, **Chandra PS**, Sharma BS. Long segment spinal epidural extramedullary hematopoiesis. *Surg Neurol Int*. 2013 Dec 26;4:161. doi: 10.4103/2152-7806.123657. PMID: 24404404; PMCID: PMC3883269.
376. **Chandra PS**, Kumar A, Chauhan A, et al. Distraction, compression, and extension reduction of basilar invagination and atlantoaxial dislocation: a novel pilot technique. *Neurosurgery*. 2013;72:1040–1053.

Year Of 2012

377. Singh P, Sarkari A, **Sarat Chandra P**, Mahapatra AK, Sharma BS, Gurjar HK. Giant craniopharyngioma presenting as a cerebellopontine angle tumour. *Pediatr Neurosurg*. 2012;48(2):131-2. doi: 10.1159/000343483. Epub 2012 Nov 2. PMID: 23128556.
378. Gurjar HK, Sarkari A, **Chandra PS**. Surgical management of giant multilevel aneurysmal bone cyst of cervical spine in a 10-year-old boy: case report with review of literature. *Evid Based Spine Care J*. 2012 Nov;3(4):55-9. doi: 10.1055/s-0032-1328143. PMID: 23526912; PMCID: PMC3592772.
379. Agarwal S, Sharma MC, Singh G, Suri V, Sarkar C, Garg A, Kumar R, **Chandra PS**. Papillary glioneuronal tumor--a rare entity: report of four cases and brief review of

literature. Childs Nerv Syst. 2012 Nov;28(11):1897-904. doi: 10.1007/s00381-012-1860-3. Epub 2012 Aug 7. PMID: 22868530.

380. **Chandra SP**, Kumar A. Clipping of a re-grown basilar bifurcation aneurysm following coiling: an extreme surgical challenge. Neurol India. 2012 Nov-Dec;60(6):676-7. doi: 10.4103/0028-3886.105223. PMID: 23287351.
381. Kumar A, **Chandra PS**, Mankotia DS, Tripathi M, Garg A, Mahapatra AK. Squamosal type superficial middle cerebral vein: a rare venous drainage pattern. Neurol India. 2012 Sep-Oct;60(5):546-7. doi: 10.4103/0028-3886.103220. PMID: 23135048.
382. Bindra A, Chouhan RS, Prabhakar H, Dash HH, **Chandra PS**, Tripathi M. Comparison of the effects of different anesthetic techniques on electrocorticography in patients undergoing epilepsy surgery - a bispectral index guided study. Seizure. 2012 Sep;21(7):501-7. doi: 10.1016/j.seizure.2012.05.002. Epub 2012 May 23. PMID: 22632798.
383. Kumar A, **Chandra PS**, Bisht A, Garg A, Mahapatra AK, Sharma MC. Successful surgical excision of a nondysraphic holodorsal intramedullary lipoma in a 14-month-old child. Pediatr Neurosurg. 2011;47(4):272-4. doi: 10.1159/000334258. Epub 2012 Feb 22. PMID: 22378500.
384. Tripathi M, Jain DC, Devi MG, Jain S, Saxena V, **Chandra PS**, Radhakrishnan K, Behari M, Gupta M, Puri V, Mehndiratta MM, Bala K, Anand KS, Rawat S, Shah PU, Gulati S, Johri S, Nadkarni VV, Chandra PS, Bachani D. Need for a national epilepsy control program. Ann Indian Acad Neurol. 2012 Apr;15(2):89-93. doi: 10.4103/0972-2327.94989. PMID: 22566719; PMCID: PMC3345606.
385. Rathore YS, **Chandra PS**, Kumar R, Singh M, Sharma MS, Suri A, Mishra NK, Gaikwad S, Garg A, Sharma BS, Mahapatra AK. Monitored gradual occlusion of the internal carotid artery followed by ligation for giant internal carotid artery aneurysms. Neurol India. 2012 Mar-Apr;60(2):174-9. doi: 10.4103/0028-3886.96396. PMID: 22626699.
386. **Chandra PS**, Padma VM, Shailesh G, Chandreshekar B, Sarkar C, Tripathi M. Hemispherotomy for intractable epilepsy. Neurol India. 2008 Apr-Jun;56(2):127-32. PMID: 18688135.
387. **Chandra PS**, Gulati S, Kalra V, Garg A, Mishra NK, Bal CS, Sarkar C, Tripathi M. Fourth ventricular hamartoma presenting with status epilepticus treated with emergency surgery in an infant. Pediatr Neurosurg. 2011;47(3):217-22. doi: 10.1159/000331590. Epub 2011 Oct 27. PMID: 22041663.
388. Kumar R, **Chandra SP**, Sharma BS. Giant intradiploic pseudomeningocele of occipital bone. J Neurosurg Pediatr. 2012 Jan;9(1):82-5. doi: 10.3171/2011.10.PEDS1181. PMID: 22208326.

Year Of 2011

389. Tripathi M, Padhy UP, Vibha D, Bhatia R, Padma Srivastava MV, Singh MB, Prasad K, **Chandra SP**. Predictors of refractory epilepsy in north India: a case-control study. Seizure. 2011 Dec;20(10):779-83. doi: 10.1016/j.seizure.2011.07.010. Epub 2011 Aug 6. PMID: 21821437.
390. Kale SS, Ailawadhi P, Yerramneni VK, **Chandra PS**, Kumar R, Sharma BS, Mahapatra AK. Pediatric bony craniovertebral junction abnormalities: Institutional experience of 10

years. J Pediatr Neurosci. 2011 Oct;6(Suppl 1):S91-5. doi: 10.4103/1817-1745.85721. PMID: 22069436; PMCID: PMC3208923.

391. Yerramneni VK, **Chandra PS**, Kale SS, Lythalling RK, Mahapatra AK. A 6-year experience of 100 cases of pediatric bony craniovertebral junction abnormalities: treatment and outcomes. Pediatr Neurosurg. 2011;47(1):45-50. doi: 10.1159/000329623. Epub 2011 Aug 22. PMID: 21921668.
392. Ammini AC, Bhattacharya S, Sahoo JP, Philip J, Tandon N, Goswami R, Jyotsna VJ, Khadgawat R, Chumber S, Seth A, Karak AK, Sharma BS, **Chandra PS**, Suri A, Sharma MS, Kale SS, Singh M. Cushing's disease: results of treatment and factors affecting outcome. Hormones (Athens). 2011 Jul-Sep;10(3):222-9. doi: 10.14310/horm.2002.1312. PMID: 22001133
393. **Chandra PS**, Gulati S, Kalra V, et al. Fourth ventricular hamartoma presenting with status epilepticus treated with emergency surgery in an infant. Pediatr Neurosurg. 2011;47:217-22.

Year Of 2010

394. Rath GP, Marda M, Sokhal N, Singh P, **Chandra PS**. Hypopharyngeal injury leading to subcutaneous emphysema after anterior cervical discectomy and artificial cervical disc placement. J Clin Neurosci. 2010 Nov;17(11):1447-9. doi: 10.1016/j.jocn.2010.01.020. Epub 2010 May 14. PMID: 20471837.
395. Vamsi KY, Sarat **Chandra P**, Sharma BS, Mohapatra AK. Anterior sacral meningocele wrongly diagnosed as ovarian cyst. Pediatr Neurosurg. 2010;46(3):245-6. doi: 10.1159/000321923. Epub 2010 Nov 4. PMID: 21051926.
396. **Chandra PS**, Bal C, Garg A, Gaikwad S, Prasad K, Sharma BS, Sarkar C, Singh MB, Padma VM, Tripathi M. Surgery for medically intractable epilepsy due to postinfectious etiologies. Epilepsia. 2010 Jun;51(6):1097-100. doi: 10.1111/j.1528-1167.2010.02538.x. Epub 2010 Mar 18. PMID: 20345935.
397. Mishra S, **Chandra PS**, Suri A, Rajender K, Sharma BS, Mahapatra AK. Endoscopic management of third ventricular colloid cysts: eight years' institutional experience and description of a new technique. Neurol India. 2010 May-Jun;58(3):412-7. doi: 10.4103/0028-3886.66222. PMID: 20644270.
398. Sharma MS, Thapa A, **Chandra SP**, Suri A, Singh M, Bahl VK, Sharma BS. Intraoperative pulse and blood pressure recordings of neurosurgeons: a pilot study of cardiovascular performance. Neurosurgery. 2010 May;66(5):893-9; discussion 899. doi: 10.1227/01.NEU.0000368444.03911.FB. PMID: 20404692.
399. Thapa A, **Chandra SP**, Sinha S, Sreenivas V, Sharma BS, Tripathi M. Post-traumatic seizures-A prospective study from a tertiary level trauma center in a developing country. Seizure. 2010 May;19(4):211-6. doi: 10.1016/j.seizure.2010.02.004. Epub 2010 Mar 3. PMID: 20202866.
400. **Chandra PS**, Tripathi M. Epilepsy surgery: recommendations for India. Ann Indian Acad Neurol. 2010 Apr;13(2):87-93. doi: 10.4103/0972-2327.64625. PMID: 20814490; PMCID: PMC2924525.

401. Tripathi M, Garg A, Gaikwad S, Bal CS, Chitra S, Prasad K, Dash HH, Sharma BS, **Chandra PS**. Intra-operative electrocorticography in lesional epilepsy. *Epilepsy Res.* 2010 Mar;89(1):133-41. doi: 10.1016/j.eplesyres.2009.12.007. Epub 2010 Jan 15. PMID: 20079611.
402. Tripathi M, Vibha D, Choudhary N, Prasad K, Srivastava MV, Bhatia R, **Chandra SP**. Management of refractory status epilepticus at a tertiary care centre in a developing country. *Seizure.* 2010 Mar;19(2):109-11. doi: 10.1016/j.seizure.2009.11.007. Epub 2010 Jan 19. PMID: 20034814.
403. Yerramneni VK, **Chandra PS**, Kasliwal MK, Sinha S, Suri A, Gupta A, Sharma BS. Recovery of oculomotor nerve palsy following surgical clipping of posterior communicating artery aneurysms. *Neurol India.* 2010 Jan-Feb;58(1):103-5. doi: 10.4103/0028-3886.60413. PMID: 20228474.
404. Sharma BS, Kasliwal MK, Suri A, **Sarat Chandra P**, Gupta A, Mehta VS. Outcome following surgery for ophthalmic segment aneurysms. *J Clin Neurosci.* 2010 Jan;17(1):38-42. doi: 10.1016/j.jocn.2009.04.022. Epub 2009 Dec 14. PMID: 20005719.
405. **Chandra PS**, Tripathi M. Epilepsy surgery: Recommendations for India. *Ann Indian Acad Neurol.* 2010;13:87-93.

Year Of 2009

406. Thapa A, **Chandra PS**, Sinha S, Gupta A, Singh M, Suri A, Sharma BS. Surgical interventions in intracranial arteriovenous malformations: indications and outcome analysis in a changing scenario. *Neurol India.* 2009 Nov-Dec;57(6):749-55. doi: 10.4103/0028-3886.59471. PMID: 20139504.
407. Sharma MS, Vohra A, Thomas P, Kapil A, Suri A, **Chandra PS**, Kale SS, Mahapatra AK, Sharma BS. Effect of risk-stratified, protocol-based perioperative chemoprophylaxis on nosocomial infection rates in a series of 31 927 consecutive neurosurgical procedures (1994-2006). *Neurosurgery.* 2009 Jun;64(6):1123-30; discussion 1130-1. doi: 10.1227/01.NEU.0000345645.51847.61. PMID: 19487892.
408. Sharma MC, Jain D, Gupta A, Sarkar C, Suri V, Garg A, Gaikwad SB, **Chandra PS**. Dysembryoplastic neuroepithelial tumor: a clinicopathological study of 32 cases. *Neurosurg Rev.* 2009 Apr;32(2):161-9; discussion 169-70. doi: 10.1007/s10143-008-0181-1. Epub 2009 Jan 23. PMID: 19165515.
409. Garg A, Suri A, **Chandra PS**, Kumar R, Sharma BS, Mahapatra AK. Endoscopic third ventriculostomy: 5 years' experience at the All India Institute of Medical Sciences. *Pediatr Neurosurg.* 2009;45(1):1-5. doi: 10.1159/000202617. Epub 2009 Feb 17. PMID: 19221456.
410. Mukherjee S, Tripathi M, **Chandra PS**, et al. Cardiovascular autonomic functions in well-controlled and intractable partial epilepsies. *Epilepsy Res.* 2009;85:261-9.

Year Of 2008

411. Ahmad FU, Sharma BS, Garg A, **Chandra PS**. Primary spontaneous CSF rhinorrhea through the clivus: possible etiopathology. *J Clin Neurosci.* 2008 Nov;15(11):1304-8. doi: 10.1016/j.jocn.2006.10.012. Epub 2008 Apr 18. PMID: 18394905.

412. Goel RK, Ahmad FU, Vellimana AK, Suri A, **Chandra PS**, Kumar R, Sharma BS, Mahapatra AK. Endoscopic management of intraventricular neurocysticercosis. *J Clin Neurosci*. 2008 Oct;15(10):1096-101. doi: 10.1016/j.jocn.2007.10.004. Epub 2008 Jul 23. PMID: 18653345.
413. Sharma BS, Ahmad FU, **Chandra PS**, Mahapatra AK. Trigeminal schwannomas: experience with 68 cases. *J Clin Neurosci*. 2008 Jul;15(7):738-43. doi: 10.1016/j.jocn.2006.09.007. Epub 2008 Apr 8. PMID: 18396403.
414. Tripathi M, Singh MS, Padma MV, Gaikwad S, Bal CS, Tripathi M, Sarkar C, Gupta A, Shukla G, Singh VP, Jain S, Sharma BS, **Chandra PS**. Surgical outcome of cortical dysplasias presenting with chronic intractable epilepsy: a 10-year experience. *Neurol India*. 2008 Apr-Jun;56(2):138-43. PMID: 18688137.
415. Gurjar H, Dwarakanath S, Sharma BS, **Chandra PS**. Cerebellar hemorrhage following endoscopic third ventricular colloid cyst decompression. *Neurol India*. 2008 Apr-Jun;56(2):218-20. doi: 10.4103/0028-3886.42016. PMID: 18688162.

Year Of 2007

416. Ahmad FU, Tripathi M, Padma MV, Gaikwad S, Gupta A, Bal CS, Sarkar C, Gupta S, Wadhawan AN, Sharma BS, **Chandra PS**. Health-related quality of life using QOLIE-31: before and after epilepsy surgery a prospective study at a tertiary care center. *Neurol India*. 2007 Oct-Dec;55(4):343-8. doi: 10.4103/0028-3886.37093. PMID: 18040106.
417. Mathern GW, Andres M, Salamon N, **Chandra PS**, Andre VM, Cepeda C, Levine MS, Leite JP, Neder L, Vinters HV. A hypothesis regarding the pathogenesis and epileptogenesis of pediatric cortical dysplasia and hemimegalencephaly based on MRI cerebral volumes and NeuN cortical cell densities. *Epilepsia*. 2007;48 Suppl 5:74-8. doi: 10.1111/j.1528-1167.2007.01292.x. Erratum in: *Epilepsia*. 2007 Dec;48(12):2380. PMID: 17910584.
418. **Chandra PS**, Salamon N, Nguyen ST, Chang JW, Huynh MN, Cepeda C, Leite JP, Neder L, Koh S, Vinters HV, Mathern GW. Infantile spasm-associated microencephaly in tuberous sclerosis complex and cortical dysplasia. *Neurology*. 2007 Feb 6;68(6):438-45. doi: 10.1212/01.wnl.0000252952.62543.20. PMID: 17283320.
419. Gupta DK, **Chandra PS**, Ojha BK, Sharma BS, Mahapatra AK, Mehta VS. Awake craniotomy versus surgery under general anesthesia for resection of intrinsic lesions of eloquent cortex--a prospective randomised study. *Clin Neurol Neurosurg*. 2007 May;109(4):335-43. doi: 10.1016/j.clineuro.2007.01.008. Epub 2007 Feb 14. PMID: 17303322.
420. Kasliwal MK, **Chandra PS**, Sharma BS. Images in neuro oncology: primary extraaxial cerebellopontine angle ependymoma. *J Neurooncol*. 2007 May;83(1):31-2. doi: 10.1007/s11060-007-9330-6. Epub 2007 Mar 30. PMID: 17396227.

Year Of 2006

421. Deb P, Sharma MC, Tripathi M, **Sarat Chandra P**, Gupta A, Sarkar C. Expression of CD34 as a novel marker for glioneuronal lesions associated with chronic intractable epilepsy. *Neuropathol Appl Neurobiol*. 2006 Oct;32(5):461-8. doi: 10.1111/j.1365-2990.2006.00734.x. PMID: 16972880.

422. **Chandra PS**, Salamon N, Huang J, Wu JY, Koh S, Vinters HV, Mathern GW. FDG-PET/MRI coregistration and diffusion-tensor imaging distinguish epileptogenic tubers and cortex in patients with tuberous sclerosis complex: a preliminary report. *Epilepsia*. 2006 Sep;47(9):1543-9. doi: 10.1111/j.1528-1167.2006.00627.x. PMID: 16981871.
423. Sarkar C, Sharma MC, Deb P, Singh VP, **Chandra PS**, Gupta A, Tripathi M, Bhatia M, Gaikwad S, Bal CS, Jain S. Neuropathological spectrum of lesions associated with intractable epilepsies: a 10-year experience with a series of 153 resections. *Neurol India*. 2006 Jun;54(2):144-50; discussion 150-1. PMID: 16804257.
424. Salamon N, Andres M, Chute DJ, Nguyen ST, Chang JW, Huynh MN, **Chandra PS**, Andre VM, Cepeda C, Levine MS, Leite JP, Neder L, Vinters HV, Mathern GW. Contralateral hemimicrencephaly and clinical-pathological correlations in children with hemimegalencephaly. *Brain*. 2006 Feb;129(Pt 2):352-65. doi: 10.1093/brain/awh681. Epub 2005 Nov 16. PMID: 16291806.
425. Gupta SC, **Chandra PS**, Singh M. Effects of irradiation on nasal mucociliary clearance in head and neck cancer patients. *Indian J Otolaryngol Head Neck Surg*. 2006 Jan;58(1):46-50. doi: 10.1007/BF02907740. PMID: 23120236; PMCID: PMC3450599.

Year Of 2005

426. Shukla G, Bhatia M, Padma Srivastava MV, Tripathi M, Srivastava A, Singh VP, **Sarat Chandra P**, Gupta A, Gaikwad S, Bal CS, Jain S. Unidirectional whole body turning: a new lateralising sign in complex partial seizures. *J Neurol Neurosurg Psychiatry*. 2005 Dec;76(12):1726-9. doi: 10.1136/jnnp.2004.042549. PMID: 16291904; PMCID: PMC1739458.
427. **Chandra PS**, Gupta A, Mishra NK, Mehta VS. Association of craniovertebral and upper cervical anomalies with dermoid and epidermoid cysts: report of four cases. *Neurosurgery*. 2005 May;56(5):E1155; discussion E1155. PMID: 15854265.
428. Deb P, Sharma MC, Gaikwad S, Tripathi M, **Chandra PS**, Jain S, Sarkar C. Neuropathological spectrum of Rasmussen encephalitis. *Neurol India*. 2005 Jun;53(2):156-60; discussion 160-1. doi: 10.4103/0028-3886.16396. PMID: 16010051.
429. Sharma MC, **Sarat Chandra P**, Goel S, Gupta V, Sarkar C. Primary lumbosacral Wilms tumor associated with diastematomyelia and occult spinal dysraphism. A report of a rare case and a short review of literature. *Childs Nerv Syst*. 2005 Mar;21(3):240-3. doi: 10.1007/s00381-004-0989-0. Epub 2004 Nov 20. PMID: 15742208.

Year Of 2004

430. Sanyal SK, **Chandra PS**, Gupta S, Tripathi M, Singh VP, Jain S, Padma MV, Mehta VS. Memory and intelligence outcome following surgery for intractable temporal lobe epilepsy: relationship to seizure outcome and evaluation using a customized neuropsychological battery. *Epilepsy Behav*. 2005 Mar;6(2):147-55. doi: 10.1016/j.yebeh.2004.11.015. PMID: 15710297.
431. Garg A, Chugh M, Gaikwad SB, **Chandra SP**, Gupta V, Mishra NK, Sharma MC. Juvenile pilocytic astrocytoma presenting with subarachnoid hemorrhage. Case report and review of the literature. *J Neurosurg*. 2004 May;100(5 Suppl Pediatrics):525-9. doi: 10.3171/ped.2004.100.5.0525. PMID: 15287467.

Year Of 2003

432. **Sarat Chandra P**, Jaiswal AK, Mehta VS. Foramen magnum tumors: a series of 30 cases. *Neurol India*. 2003 Jun;51(2):193-6. PMID: 14571001.
433. Tripathi M, Goel V, Padma MV, Jain S, Maheshwari MC, Gaikwad S, Gupta V, **Chandra PS**, Mehta VS. Fenestration of the posterior communicating artery. *Neurol India*. 2003 Mar;51(1):75-6. PMID: 12865525.

Year Of 2002

434. **Chandra PS**, Jaiswal A, Mahapatra AK. Bifrontal epidural haematomas following surgery for occipital falcine meningioma: an unusual complication of surgery in the prone position. *J Clin Neurosci*. 2002 Sep;9(5):582-4. doi: 10.1054/jocn.2001.1054. PMID: 12383421.

Year Of 2001

435. Pandey P, Tripathi M, **Chandra PS**, Singh VP, Mehta VS. Spontaneous decompression of a posterior fossa arachnoid cyst: a case report. *Pediatr Neurosurg*. 2001 Sep;35(3):162-3. doi: 10.1159/000050413. PMID: 11641628.
436. Jaiswal AK, **Chandra PS**. Cerebellopontine angle meningioma with acquired chiari and syringomyelia: neuroimage. *Neurol India*. 2001 Sep;49(3):323. PMID: 11593259.
437. **Chandra PS**, Mahapatra AK. Giant ocular nerve neurofibroma of the cavernous sinus: a series of 5 cases. *Neurol India*. 2001 Jun;49(2):166-9. PMID: 11447438.
438. Tripathi M, Santosh V, Nagaraj D, Christopher R, **Chandra PS**, Shankar SK. Stroke in a young man with fibromuscular dysplasia of the cranial vessels with anticardiolipin antibodies: a case report. *Neurol Sci*. 2001 Feb;22(1):31-5. doi: 10.1007/s100720170034. PMID: 11487190.

Year Of 2000

439. Jaiswal AK, Tripathi M, **Chandra PS**, Sharma MC, Mahapatra AK. An unusual case of primary lymphoma of the skull base extending from cerebellopontine angle to cavernous sinus and orbit. A case report. *J Neurosurg Sci*. 2000 Sep;44(3):145-8; discussion 149. PMID: 11126450.
440. Sharma MC, Arora R, Mahapatra AK, **Sarat-Chandra P**, Gaikwad SB, Sarkar C. Intracellular tuberculoma--an enigmatic pituitary infection: a series of 18 cases. *Clin Neurol Neurosurg*. 2000 Jun;102(2):72-7. doi: 10.1016/s0303-8467(00)00063-9. PMID: 10817892.
441. Jaiswal AK, **Chandra PS**, Kamal R, Sharma MC, Mahapatra AK. Cerebellar medulloblastoma in a 65 year old Indian male. *Neurol India*. 2000 Jun;48(2):178-9. PMID: 10878786.
442. **Chandra PS**, Hegde T. A case of coexisting cerebellopontine angle meningioma and schwannoma. *Neurol India*. 2000 Jun;48(2):198. PMID: 10878800.
443. **Chandra PS**, Goyal M, Mishra NK, Gaikwad SB. Invasive aspergillosis presenting as a cavernous sinus mass in immuno competent individuals; report of 3 cases. *Neuroradiology*. 2000 Feb;42(2):108-11. doi: 10.1007/s002340050025. PMID: 10663485.

444. **Chandra PS**, Manjari T, Devi BI, Chandramouli BA, Srikanth SG, Shankar SK. Intramedullary spinal epidermoid cyst. *Neurol India*. 2000 Mar;48(1):75-7. PMID: 10751819.

Year Of 1999

445. **Chandra PS**, Manjari T, Chandramouli BA, Jayakumar PN, Shankar SK. Cavernous-venous malformation of brain stem--report of a case and review of literature. *Surg Neurol*. 1999 Sep;52(3):280-5. doi: 10.1016/s0090-3019(99)00079-8. PMID: 10511087.
446. **Chandra PS**, Kamal R, Mahapatra AK. An unusual case of dorsally situated bony spur in a lumbar split cord malformation. *Pediatr Neurosurg*. 1999 Jul;31(1):49-52. doi: 10.1159/000028831. PMID: 10545823.
447. Mohanty A, Vasudev MK, **Chandra PS**. Extradural haematoma complicating lumbar puncture following a craniotomy. A case report. *J Neurosurg Sci*. 1998 Dec;42(4):233-7. PMID: 10404752.

Year Of 1997

448. Jayakumar PN, **Chandra PS**, Satish CP. Cerebral parenchymal calcification in a child with vein of galen malformation : role of medullary veins. *Neurol India*. 1997 Jul-Sep;45(3):174-176. PMID: 29512544.

Some important abstracts on google scholar:

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458. Infantile spasm-associated microencephaly in tuberous sclerosis complex and cortical dysplasia. *Neurology*. [Internet]. 2007 [Citado 20 de mayo de 2011]; 68 (6):[Aprox. 7p.]
PS Chandra, N Salamon, ST Nguyen
459. Semantic memory processing in left temporal lobe epilepsy using functional Magnetic Resonance Imaging
K Chaudhary, SS Kumaran, M Tripathi, SP Chandra
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