

Publikationen Klinik für Neurochirurgie Universitätsspital Basel 2020

Peer reviewed articles

1. *Soleman J, Ullmann M, Greuter L, Ebel F, Guzman R.* **Mortality and Outcome in Elderly Patients Undergoing Emergent or Elective Cranial Surgery.** World Neurosurg 2020. Impact factor: 1.829
2. *Greuter L, Lutz K, Fandino J, Mariani L, Guzman R, Soleman J.* **Drain type after burr-hole drainage of chronic subdural hematoma in geriatric patients: a subanalysis of the cSDH-Drain randomized controlled trial.** Neurosurg Focus 2020. Impact factor: 2.891
3. *Leu S, Kamenova M, Mariani L, Soleman J.* **Ultrasound-Guided Insertion of the Ventricular Catheter in Ventriculoperitoneal Shunt Surgery: Evaluation of Accuracy and Feasibility in a Prospective Cohort.** J Neurol Surg A Cent Eur Neurosurg 2020. Impact factor: 0.0905
4. *Lalgudi Srinivasan H, Valdes-Barrera P, Agur A, Soleman J, Ekstein M, Korn A, Vendrov I, Roth J, Constantini S.* **Filum terminale lipomas-the role of intraoperative neuromonitoring.** Childs Nerv Syst. 2020. Impact factor: 1.298
5. *Kamenova M, Wanderer S, Lipps P, Marbacher S, Mariani L, Soleman J.* **In Reply to the Letter to the Editor Regarding "When the Drain Hits the Brain".** World Neurosurg 2020. Impact factor: 1.829
6. *Serafimova M, Soleman J, Stoessel T, Guzman R, Constantini S, Roth J.* **Peritoneal insertion of shunts in children: comparison between trocar and laparoscopically guided insertion.** Childs Nerv Syst. 2020. Impact factor: 1.298
7. *Ebel F, Guzman R, Soleman J.* **Burr hole trepanation and insertion of a subperiosteal drain for chronic subdural haematoma: how I do it.** Acta Neurochir 2020. Impact factor: 1.870
8. *Greuter L, Hejrati N, Soleman J.* **Type of Drain in Chronic Subdural Hematoma-A Systematic Review and Meta-Analysis.** Front Neurol. 2020. Impact factor: 2.889
9. *Soleman J, Kozyrev DA, Ben-Sira L, Constantini S, Roth J.* **Management of incidental brain tumors in children: a systematic review.** Childs Nerv Syst. 2020. Impact factor: 1.298
10. *Knorr C, Greuter L, Constantini S, Fried I, Kremer U, Datta AN, Guzman R, Soleman J.* **Subgroup analysis of seizure and cognitive outcome after vagal nerve stimulator implantation in children.** Childs Nerv Syst. 2020. Impact factor: 1.298

11. *Soleman J, Guzman R. Neurocognitive Complications after Ventricular Neuroendoscopy: A Systematic Review.* Behav Neurol. 2020. Impact factor: 2.093
12. *Kamenova M, Lutz K, Schaedelin S, Fandino J, Mariani L, Soleman J. Subperiosteal versus Subdural Drain After Burr-hole Drainage Under Blood Thinners: A Subanalysis of the cSDH-Drain RCT.* World Neurosurg. 2020. Impact factor: 1.829
13. *Hejrati N, Guzman R, Soleman J. In reply to: "Is it experience or lesson?".* Childs Nerv Syst. 2020. Impact factor: 1.298
14. *Hejrati N, Guzman R, Soleman J. In Reply to "A suggestion to the article "Acute cerebellar edema after traumatic brain injury in a child. a case report".* Childs Nerv Syst. 2020. Impact factor: 1.298
15. *Kamenova M, Wanderer S, Lipps P, Marbacher S, Mariani L, Soleman J. When the Drain Hits the Brain.* World Neurosurg. 2020. Impact factor: 1.829
16. *Licci M, Thieringer FM, Guzman R, Soleman J. Development and validation of a synthetic 3D-printed simulator for training in neuroendoscopic ventricular lesion removal.* Neurosurg Focus. 2020. Impact factor: 2.891
17. *Edlmann E, Holl DC, Lingsma HF, Bartek J Jr, Bartley A, Duerinck J, Jensen TSR, Soleman J, Shanbhag NC, Devi BI, Laeke T, Rubiano AM, Fugleholm K, van der Veken J, Tisell M, Hutchinson PJ, Dammers R, Koliass AG; International Collaborative Research Initiative on Chronic Subdural Haematoma (iCORIC) study group. Systematic review of current randomised control trials in chronic subdural haematoma and proposal for an international collaborative approach.* Acta Neurochir (Wien) 2020. Impact factor: 1.870
18. *Ebel F, Thieringer FM, Kunz C, Klein-Franke A, Scheinemann K, Guzman R, Soleman J. Melanotic neuroectodermal tumor of infancy to the skull: case-based review.* Childs Nerv Syst. 2020. Impact factor: 1.298
19. *Hejrati N, Ebel F, Guzman R, Soleman J. Posttraumatic cerebrovascular injuries in children. A systematic review.* Childs Nerv Syst. 2020. Impact factor: 1.298
20. *Hejrati N, Guzman R, Soleman J. Acute cerebellar edema after traumatic brain injury in a child. a case report.* Childs Nerv Syst. 2020. Impact factor: 1.298
21. *Kamenova M, Stein M, Ram Z, Grossman R, Guzman R, Mariani L, Roth J, Soleman J. Prophylactic antiepileptic treatment with levetiracetam for patients undergoing supratentorial brain tumor surgery: a two-center matched cohort study.* Neurosurg Rev. 2020. Impact factor: 2.495

22. Sadeghi Bahmani D, Gonzenbach R, Kesselring J, Bansi J, Motl RW, *Cordier D*, Rothen O, Niedermoser D, Gerber M, Brand S. **Among Persons With Multiple Sclerosis (MS), Objective Sleep, Psychological Functioning, and Higher Physical Activity Scores Remained Stable Over 2 Years-Results From a Small Study Under Naturalistic Conditions.** *Front Psychiatry*. 2020. Impact factor: 3.532
23. Stienen MN, Freyschlag CF, Schaller K, Meling T; EANS Young Neurosurgeons and EANS Training Committee. **Procedures performed during neurosurgery residency in Europe.** *Acta Neurochir (Wien)*. 2020. Impact factor: 1.870 (*Cordier D. Co-Author*)
24. *Eberhard N, Cordier D.* **An Unusual Bump on the Head: Intracranial and Extracranial Cytokeratin-Positive Interstitial Reticular Cell Tumor.** *World Neurosurg*. 2020. Impact factor: 1.829
25. Croci DM, Dalolio M, Aghlmandi S, *Taub E, Rychen J, Chiappini A, Zumofen D, Guzman R, Mariani L, Roethlisberger M.* **Early permanent cerebrospinal fluid diversion in aneurysmal subarachnoid hemorrhage: does a lower rate of nosocomial meningitis outweigh the risk of delayed cerebral vasospasm related morbidity?** *Neurol Res*. 2020. Impact factor: 2.401
26. Maldaner N, Zeitlberger AM, Sosnova M, Goldberg J, Fung C, Bervini D, May A, Bijlenga P, Schaller K, *Roethlisberger M, Rychen J, Zumofen DW, D'Alonzo D, Marbacher S, Fandino J, Daniel RT, Burkhardt JK, Chiappini A, Robert T, Schatlo B, Schmid J, Maduri R, Staartjes VE, Seule MA, Weyerbrock A, Serra C, Stienen MN, Bozinov O, Regli L.* **Development of a Complication- and Treatment-Aware Prediction Model for Favorable Functional Outcome in Aneurysmal Subarachnoid Hemorrhage Based on Machine Learning.** *Neurosurgery*. 2020. Impact factor: 1.829
27. Fingerlin TJ, *Rychen J, Roethlisberger M, Taub E, Mariani L, Guzman R, Zumofen DW.* **Long-term aneurysm recurrence and de novo aneurysm formation after surgical treatment of unruptured intracranial aneurysms: a cohort study and systematic review.** *Neurol Res*. 2020. Impact factor: 2.401
28. *Roethlisberger M, Jayapalan RR, Hostettler IC, Bin Abd Kadir KA, Mun KS, Brand Y, Mariani L, Prepageran N, Waran V.* **Evolving Strategies for Resection of Sellar/Parasellar Synchronous Tumors via Endoscopic Endonasal Approach: A Technical Case Report and Systematic Review of the Literature.** *World Neurosurg*. 2020. Impact factor: 1.829
29. Martins TA, Schmassmann P, Shekarian T, Boulay JL, Ritz MF, Zanganeh S, Vom Berg J, *Hutter G.* **Microglia-Centered Combinatorial Strategies Against Glioblastoma.** *Front Immunol*. 2020. Impact factor: 5.085
30. Shevchik S, Nguendon Kenhagho H, Quang-Le T, Faivre N, Meylan B, *Guzman R, Cattin PC, Zam A, Wasmer K.* **Machine Learning Monitoring for Laser Osteotomy.** *J Biophotonics*. 2020. Impact factor: 3.032

31. Hopf A, Schaefer DJ, Kalbermatten DF, *Guzman R*, Madduri S. **Schwann Cell-Like Cells: Origin and Usability for Repair and Regeneration of the Peripheral and Central Nervous System.** *Cells*. 2020. Impact factor: 4.366
32. Prautsch KM, Schmidt A, Paradiso V, Schaefer DJ, *Guzman R*, Kalbermatten DF, Madduri S. **Modulation of Human Adipose Stem Cells' Neurotrophic Capacity Using a Variety of Growth Factors for Neural Tissue Engineering Applications: Axonal Growth, Transcriptional, and Phosphoproteomic Analyses In Vitro.** *Cells*. 2020. Impact factor: 4.366
33. Ghosh N, Kalbermatten D, Madduri S, *Guzman R*. **Fibrosis and Regulation of Nerve Regeneration in the Peripheral and Central Nervous Systems.** *CNS Neurol Disord Drug Targets*. 2020. Impact factor: 2.761
34. Curt A, Hsieh J, Schubert M, Hupp M, Friedl S, Freund P, Huber E, Pfyffer D, Sutter R, Jutzeler C, Wüthrich RP, Min K, Casha S, Fehlings MG, *Guzman R*. **The Damaged Spinal Cord Is a Suitable Target for Stem Cell Transplantation.** *Neurorehabil Neural Repair*. 2020. Impact Factor: 3.982
35. Nguendon Kenhagho H, Canbaz F, Gomez Alvarez-Arenas TE, *Guzman R*, Cattin P, Zam A. **Machine Learning-Based Optoacoustic Tissue Classification Method for Laser Osteotomes Using an Air-Coupled Transducer.** *Lasers Surg Med*. 2020. Impact factor: 3.380
36. Prautsch KM, Degrugillier L, Schaefer DJ, *Guzman R*, Kalbermatten DF, Madduri S. **Ex-Vivo Stimulation of Adipose Stem Cells by Growth Factors and Fibrin-Hydrogel Assisted Delivery Strategies for Treating Nerve Gap-Injuries.** *Bioengineering (Basel)*. 2020. Impact factor: 3.644
37. Abbasi H, Beltrán Bernal LM, Hamidi A, Droneau A, Canbaz F, *Guzman R*, Jacques SL, Cattin PC, Zam A. **Combined Nd:YAG and Er: YAG lasers for real-time closed-loop tissue-specific laser osteotomy.** *Biomed Opt Express*. 2020. Impact factor: 3.921
38. Lischer M, di Summa PG, Oranges CM, Schaefer DJ, Kalbermatten DF, *Guzman R*, Madduri S. **Human platelet lysate stimulated adipose stem cells exhibit strong neurotrophic potency for nerve tissue engineering applications.** *Regen Med*. 2020. Impact factor: 2.598
39. Santo SD, Seiler S, *Guzman R*, Widmer HR. **Endothelial Progenitor Cell-Derived Factors Exert Neuroprotection in Cultured Cortical Neuronal Progenitor Cells.** *Cell Transplant*. 2020. Impact factor: 3.341
40. Fisch U, Brégère C, Geier F, Chicha L, *Guzman R*. **Neonatal hypoxia-ischemia in rat elicits a region-specific neurotrophic response in SVZ microglia.** *J Neuroinflammation*. 2020. Impact factor: 4.351
41. *Rychen J*, Zumofen DW, Riina HA, *Mariani L*, *Guzman R*. **The Transpalpebral Versus the Transciliary Variant of the Supraorbital Keyhole Approach: Anatomic Concepts for Aneurysm Surgery.** *Oper Neurosurg (Hagerstown)*. 2020. Impact factor: 1.886

42. Kaelin-Lang A, You H, Burgunder JM, Lönnfors-Weitze T, Loher TJ, *Taub E*, Isaias IU, Krauss JK, Michael Schüpbach WM. **Bilateral pallidal stimulation improves cervical dystonia for more than a decade.** *Parkinsonism Relat Disord.* 2020. Impact factor: 4.350
43. *Stricker S*, Boulouis G, Benichi S, Gariel F, Garzelli L, Beccaria K, Chivet A, de Saint Denis T, James S, Paternoster G, Zerah M, Bourgeois M, Boddaert N, Brunelle F, Meyer P, Puget S, Naggara O, Blauwblomme T. **Hydrocephalus in children with ruptured cerebral arteriovenous malformation.** *J Neurosurg Pediatr.* 2020. Impact factor: 2.117
44. Boulouis G, *Stricker S*, Benichi S, Hak JF, Gariel F, Alias Q, de Saint Denis T, Kossorotoff M, Bajolle F, Garzelli L, Beccaria K, Paternoster G, Bourgeois M, Garcelon N, Harroche A, Mancusi RL, Boddaert N, Puget S, Brunelle F, Blauwblomme T, Naggara O. **Etiology of intracerebral hemorrhage in children: cohort study, systematic review, and meta-analysis.** *J Neurosurg Pediatr.* Impact factor: 2.117
45. Saleh C., Jaszczuk P., Hund-Georgiadis M., Frank S., *Cordier D.*, Bratic Hench I., Todea A., Wasilewski A., Wilmes S., Grigioni G., Hench J.: **Differentiation of rare brain tumors through unsupervised machine learning: Clinical significance of in-depth methylation and copy number profiling illustrated through an unusual case of IDH wildtype glioblastoma.** *Clin Neuropathol.* 2020. Impact factor: 1.103