Zurich publications

1: Imbach LL, Baumann CR, Poryazova R, Geissler O, Brugger P, Sarnthein J, Mothersill I, Weller M, Oertel MF, Stieglitz LH. Anticonvulsive effect of anterior thalamic deep brain stimulation in super-refractory status epilepticus crucially depends on active stimulation zone-A single case observation. Seizure. 2019 Aug 28;71:286-288. doi: 10.1016/j.seizure.2019.08.015. [Epub ahead of print] PubMed PMID: 31493681.

2: Wirth B, Kunz S, Schwyzer HK, Flury M, Lenz M, Audigé L. Repair of Lafosse I subscapularis lesions brings no benefit in anterosuperior rotator cuff reconstruction. Knee Surg Sports Traumatol Arthrosc. 2019 Sep 3. doi: 10.1007/s00167-019-05681-2. [Epub ahead of print] PubMed PMID: 31482182.

3: Brand F, Förster A, Christians A, Bucher M, Thomé CM, Raab MS, Westphal M, Pietsch T, von Deimling A, Reifenberger G, Claus P, Hentschel B, Weller M, Weber RG. FOCAD loss impacts microtubule assembly, G2/M progression and patient survival in astrocytic gliomas. Acta Neuropathol. 2019 Aug 31. doi: 10.1007/s00401-019-02067-z. [Epub ahead of print] PubMed PMID: 31473790.

4: Serra C, Guida L, Staartjes VE, Krayenbühl N, Türe U. Historical controversies about the thalamus: from etymology to function. Neurosurg Focus. 2019 Sep 1;47(3):E13. doi: 10.3171/2019.6.FOCUS19331. PubMed PMID: 31473672.

5: Sze L, Tschopp O, Neidert MC, Bernays RL, Ghirlanda C, Zwimpfer C, Wiesli P, Schmid C. Corrigendum to Soluble delta-like 1 homolog decreases in patients with acromegaly following pituitary surgery: A potential mediator of adipogenesis suppression by growth hormone? Growth Hormone & IGF Research 45 (2019) 20-24. Growth Horm IGF Res. 2019 Aug 26. pii: S1096-6374(19)30039-5. doi: 10.1016/j.ghir.2019.08.002. [Epub ahead of print] PubMed PMID: 31466842.

6: Stienen MN, Bartek J Jr, Czabanka MA, Freyschlag CF, Kolias A, Krieg SM, Moojen W, Renovanz M, Sampron N, Adib SD, Schubert GA, Demetriades AK, Ringel F, Regli L, Schaller K, Meling TR. Response to: neurosurgical procedures performed during residency in Europe-preliminary numbers and time trends. Acta Neurochir (Wien). 2019 Aug 29. doi: 10.1007/s00701-019-04048-3. [Epub ahead of print] PubMed PMID: 31463709.

7: Jeszenszky D, Kaiser B, Meuli M, Fekete TF, Haschtmann D. Correction to: Surgical growth guidance with non-fused anchoring segments in early-onset scoliosis. Eur Spine J. 2019 Aug 28. doi: 10.1007/s00586-019-06125-8. [Epub ahead of print] PubMed PMID: 31463537.

8: Staartjes VE, Klukowska AM, Schröder ML. Association of maximum back and leg pain severity with objective functional impairment as assessed by five-repetition sit-to-stand testing: analysis of two prospective studies. Neurosurg Rev. 2019 Aug 26. doi: 10.1007/s10143-019-01168-3. [Epub ahead of print] PubMed PMID: 31451936.

9: Moenninghoff C, Pohl E, Deuschl C, Wrede K, Jabbarli R, Radbruch A, Sure U, Forsting M, Wanke I. Outcomes After Onyx Embolization as Primary Treatment for Cranial Dural Arteriovenous Fistula in the Past Decade. Acad Radiol. 2019 Aug 21. pii: S1076-6332(19)30370-8. doi: 10.1016/j.acra.2019.07.021. [Epub ahead of print] PubMed PMID: 31445824.

10: Velz J, Bellut D, Krayenbühl N, Winklhofer S, Rushing E, Frauenknecht K. 69-year-old male with an intradural, extramedullary mass at T12-L1. Brain Pathol. 2019 Sep;29(5):693-694. doi: 10.1111/bpa.12765. PubMed PMID: 31441176.

11: Galldiks N, Kocher M, Ceccon G, Werner JM, Brunn A, Deckert M, Pope WB, Soffietti R, Le Rhun E, Weller M, Tonn JC, Fink GR, Langen KJ. Imaging challenges of immunotherapy and targeted therapy in patients with brain metastases: Response, Progression, and Pseudoprogression. Neuro Oncol. 2019 Aug 22. pii: noz147. doi: 10.1093/neuonc/noz147. [Epub ahead of print] PubMed PMID: 31437274.

12: Moiraghi A, Prada F, Delaidelli A, Guatta R, May A, Bartoli A, Saini M, Perin A, Wälchli T, Momjian S, Bijlenga P, Schaller K, DiMeco F. Navigated Intraoperative 2-Dimensional Ultrasound in High-Grade Glioma Surgery: Impact on Extent of Resection and Patient Outcome. Oper Neurosurg (Hagerstown). 2019 Aug 21. pii: opz203. doi: 10.1093/ons/opz203. [Epub ahead of print] PubMed PMID: 31435672.

13: Staartjes VE, Klukowska AM, Sorba EL, Schröder ML. Conflicts of interest in randomized controlled trials reported in neurosurgical journals. J Neurosurg. 2019 Aug 16:1-10. doi: 10.3171/2019.5.JNS183560. [Epub ahead of print] Review. PubMed PMID: 31419788.

14: Beaud ML, Rouiller EM, Bloch J, Mir A, Schwab ME, Schmidlin E. Combined with anti-Nogo-A antibody treatment, BDNF did not compensate the extra deleterious motor effect caused by large size cervical cord hemisection in adult macaques. CNS Neurosci Ther. 2019 Aug 16. doi: 10.1111/cns.13213. [Epub ahead of print] PubMed PMID: 31418518.

15: Wirsching HG, Arora S, Zhang H, Szulzewsky F, Cimino PJ, Quéva C, Houghton AM, Glorioso JC, Weller M, Holland EC. Cooperation of oncolytic virotherapy with VEGF-neutralizing antibody treatment in IDH wildtype glioblastoma dependends on MMP9. Neuro Oncol. 2019 Aug 15. pii: noz145. doi: 10.1093/neuonc/noz145. [Epub ahead of print] PubMed PMID: 31412117.

16: Gangkofner DS, Holzinger D, Schroeder L, Eichmüller SB, Zörnig I, Jäger D, Wichmann G, Dietz A, Broglie MA, Herold-Mende C, Dyckhoff G, Boscolo-Rizzo P, Ezic J, Marienfeld RB, Möller P, Völkel G, Kraus JM, Kestler HA, Brunner C, Schuler PJ, Wigand M, Theodoraki MN, Doescher J, Hoffmann TK, Pawlita M, Butt J, Waterboer T, Laban S. Patterns of antibody responses to nonviral cancer antigens in head and neck squamous cell carcinoma patients differ by human papillomavirus status. Int J Cancer. 2019 Aug 12. doi: 10.1002/ijc.32623. [Epub ahead of print] PubMed PMID: 31407331.

17: Hoogmoed J, de Oliveira Manoel AL, Coert BA, Marotta TR, Macdonald RL, Vandertop WP, Verbaan D, Germans MR. Why Do Patients with Poor-Grade Subarachnoid Hemorrhage Die? World Neurosurg. 2019 Aug 6. pii: S1878-8750(19)32137-0. doi: 10.1016/j.wneu.2019.07.221. [Epub ahead of print] PubMed PMID: 31398522.

18: Staartjes VE, Serra C, Maldaner N, Muscas G, Tschopp O, Soyka MB, Holzmann D, Regli L. The Zurich Pituitary Score predicts utility of intraoperative high-field magnetic resonance imaging in transsphenoidal pituitary neuroendocrine tumor surgery. Acta Neurochir (Wien). 2019 Aug 7. doi: 10.1007/s00701-019-04018-9. [Epub ahead of print] PubMed PMID: 31392567.

19: Okuchi S, Rojas-Garcia A, Ulyte A, Lopez I, Ušinskienė J, Lewis M, Hassanein SM, Sanverdi E, Golay X, Thust S, Panovska-Griffiths J, Bisdas S. Diagnostic accuracy of dynamic contrast-enhanced perfusion MRI in stratifying gliomas: A systematic review and meta-analysis. Cancer Med. 2019 Aug 7. doi: 10.1002/cam4.2369. [Epub ahead of print] PubMed PMID: 31389669.

20: Brown TJ, Bota DA, van Den Bent MJ, Brown PD, Maher E, Aregawi D, Liau LM, Buckner JC, Weller M, Berger MS, Glantz M. Management of low-grade glioma: a systematic review and meta-analysis. Neurooncol Pract. 2019 Jul;6(4):249-258. doi: 10.1093/nop/npy034. Epub 2018 Aug 18. Review. PubMed PMID: 31386075; PubMed Central PMCID: PMC6660818.

21: Eisele G, Roelcke U, Conen K, Huber F, Weiss T, Hofer S, Heese O, Westphal M, Hertler C, Roth P, Weller M. Complementary and alternative medicine use by glioma patients in Switzerland. Neurooncol

Pract. 2019 May;6(3):237-244. doi: 10.1093/nop/npy035. Epub 2018 Oct 12. PubMed PMID: 31386047; PubMed Central PMCID: PMC6656325.

22: Henzi S, Krayenbühl N, Bozinov O, Regli L, Stienen MN. Ultrasonic aspiration in neurosurgery: comparative analysis of complications and outcome for three commonly used models. Acta Neurochir (Wien). 2019 Aug 3. doi: 10.1007/s00701-019-04021-0. [Epub ahead of print] PubMed PMID: 31377957.

23: Aloia A, Müllhaupt D, Chabbert CD, Eberhart T, Flueckiger S, Vukolic A, Eichhoff OM, Irmisch A, Alexander LT, Scibona E, Frederick DT, Miao B, Tian T, Cheng C, Kwong LN, Wei Z, Sullivan RJ, Boland GM, Herlyn M, Flaherty KT, Zamboni N, Dummer R, Zhang G, Levesque MP, Krek W, Kovacs WJ. A fatty acid oxidation-dependent metabolic shift regulates the adaptation of BRAF-mutated melanoma to MAPK inhibitors. Clin Cancer Res. 2019 Aug 2. pii: clincanres.0253.2019. doi: 10.1158/1078-0432.CCR-19-0253. [Epub ahead of print] PubMed PMID: 31375515.

24: Dias SF, Lalou AD, Spang R, Haas-Lude K, Garnett M, Fernandez H, Czosnyka M, Schuhmann MU, Czosnyka Z. Value of computerized shunt infusion study in assessment of pediatric hydrocephalus shunt function-a two center cross-sectional study. Childs Nerv Syst. 2019 Aug 1. doi: 10.1007/s00381-019-04264-3. [Epub ahead of print] PubMed PMID: 31372736.

25: Haemmerli J, Lenga P, Hong B, Kursumovic A, Maldaner N, Burkhardt JK, Bijlenga P, Rüfenacht DA, Schmidt NO, Vajkoczy P, Dengler J. Clinical implications and radiographic characteristics of the relation between giant intracranial aneurysms of the posterior circulation and the brainstem. Acta Neurochir (Wien). 2019 Sep;161(9):1747-1753. doi: 10.1007/s00701-019-04016-x. Epub 2019 Jul 29. PubMed PMID: 31359190.

26: Hubli M, Kramer JLK, Jutzeler CR, Rosner J, Furlan JC, Tansey KE, Schubert M. Application of electrophysiological measures in spinal cord injury clinical trials: a narrative review. Spinal Cord. 2019 Jul 23. doi: 10.1038/s41393-019-0331-z. [Epub ahead of print] Review. PubMed PMID: 31337870.

27: Stienen MN, Geisseler O, Velz J, Maldaner N, Sebök M, Dannecker N, Rothacher Y, Schlosser L, Smoll NR, Keller E, Brugger P, Regli L. Influence of the Intensive Care Unit Environment on the Reliability of the Montreal Cognitive Assessment. Front Neurol. 2019 Jul 3;10:734. doi: 10.3389/fneur.2019.00734. eCollection 2019. PubMed PMID: 31333576; PubMed Central PMCID: PMC6617738.

28: Ames CP, Smith JS, Pellisé F, Kelly M, Gum JL, Alanay A, Acaroğlu E, Pérez-Grueso FJS, Kleinstück FS, Obeid I, Vila-Casademunt A, Shaffrey CI Jr, Burton DC, Lafage V, Schwab FJ, Shaffrey CI Sr, Bess S, Serra-Burriel M; European Spine Study Group; International Spine Study Group. Development of predictive models for all individual questions of SRS-22R after adult spinal deformity surgery: a step toward individualized medicine. Eur Spine J. 2019 Sep;28(9):1998-2011. doi: 10.1007/s00586-019-06079-x. Epub 2019 Jul 19. PubMed PMID: 31325052.

29: Voormolen EH, Diederen S, Cebula H, Woerdeman PA, Noordmans HJ, Viergever MA, Robe PA, Froelich S, Regli L, Berkelbach van der Sprenkel JW. Distance Control and Virtual Drilling Improves Anatomical Orientation During Anterior Petrosectomy. Oper Neurosurg (Hagerstown). 2019 Apr 24. pii: opz064. doi: 10.1093/ons/opz064. [Epub ahead of print] PubMed PMID: 31323686.

30: Weller M, Le Rhun E, Preusser M, Tonn JC, Roth P. How we treat glioblastoma. ESMO Open. 2019 Jun 17;4(Suppl 2):e000520. doi: 10.1136/esmoopen-2019-000520. eCollection 2019. Review. PubMed PMID: 31297242; PubMed Central PMCID: PMC6586206.

31: Wirsching HG, Zhang H, Szulzewsky F, Arora S, Grandi P, Cimino PJ, Amankulor N, Campbell JS,

McFerrin L, Pattwell SS, Ene C, Hicks A, Ball M, Yan J, Zhang J, Kumasaka D, Pierce RH, Weller M, Finer M, Quéva C, Glorioso JC, Houghton AM, Holland EC. Arming oHSV with ULBP3 drives abscopal immunity in lymphocyte-depleted glioblastoma. JCI Insight. 2019 Jul 11;4(13). pii: 128217. doi: 10.1172/jci.insight.128217. eCollection 2019 Jul 11. PubMed PMID: 31292299; PubMed Central PMCID: PMC6629248.

32: Muroi C, Meier S, De Luca V, Mack DJ, Strässle C, Schwab P, Karlen W, Keller E. Automated False Alarm Reduction in a Real-Life Intensive Care Setting Using Motion Detection. Neurocrit Care. 2019 Jul 9. doi: 10.1007/s12028-019-00711-w. [Epub ahead of print] PubMed PMID: 31290067.

33: Muhammad S, Tanikawa R, Lawton M, Regli L, Niemelä M, Korja M. Microsurgical dissection of Sylvian fissure-short technical videos of third generation cerebrovascular neurosurgeons. Acta Neurochir (Wien). 2019 Sep;161(9):1743-1746. doi: 10.1007/s00701-019-03999-x. Epub 2019 Jul 8. PubMed PMID: 31281944; PubMed Central PMCID: PMC6704088.

34: Levin J, Maaß S, Schuberth M, Giese A, Oertel WH, Poewe W, Trenkwalder C, Wenning GK, Mansmann U, Südmeyer M, Eggert K, Mollenhauer B, Lipp A, Löhle M, Classen J, Münchau A, Kassubek J, Gandor F, Berg D, Egert-Schwender S, Eberhardt C, Paul F, Bötzel K, Ertl-Wagner B, Huppertz HJ, Ricard I, Höglinger GU; PROMESA Study Group. Safety and efficacy of epigallocatechin gallate in multiple system atrophy (PROMESA): a randomised, double-blind, placebo-controlled trial. Lancet Neurol. 2019 Aug;18(8):724-735. doi: 10.1016/S1474-4422(19)30141-3. Epub 2019 Jul 2. PubMed PMID: 31278067.

35: Baltsavias G, Valavanis A, Regli L. Cranial dural arteriovenous shunts: selection of the ideal lesion for surgical occlusion according to the classification system. Acta Neurochir (Wien). 2019 Sep;161(9):1775-1781. doi: 10.1007/s00701-019-03984-4. Epub 2019 Jul 3. PubMed PMID: 31267189.

36: Detmer FJ, Hadad S, Chung BJ, Mut F, Slawski M, Juchler N, Kurtcuoglu V, Hirsch S, Bijlenga P, Uchiyama Y, Fujimura S, Yamamoto M, Murayama Y, Takao H, Koivisto T, Frösen J, Cebral JR. Extending statistical learning for aneurysm rupture assessment to Finnish and Japanese populations using morphology, hemodynamics, and patient characteristics. Neurosurg Focus. 2019 Jul 1;47(1):E16. doi: 10.3171/2019.4.FOCUS19145. PubMed PMID: 31261120.

37: Pellisé F, Serra-Burriel M, Smith JS, Haddad S, Kelly MP, Vila-Casademunt A, Sánchez Pérez-Grueso FJ, Bess S, Gum JL, Burton DC, Acaroğlu E, Kleinstück F, Lafage V, Obeid I, Schwab F, Shaffrey CI, Alanay A, Ames C; International Spine Study Group; European Spine Study Group. Development and validation of risk stratification models for adult spinal deformity surgery. J Neurosurg Spine. 2019 Jun 28:1-13. doi: 10.3171/2019.3.SPINE181452. [Epub ahead of print] PubMed PMID: 31252385.

38: Sievers P, Appay R, Schrimpf D, Stichel D, Reuss DE, Wefers AK, Reinhardt A, Coras R, Ruf VC, Schmid S, de Stricker K, Boldt HB, Kristensen BW, Petersen JK, Ulhøi BP, Gardberg M, Aronica E, Hasselblatt M, Brück W, Bielle F, Mokhtari K, Lhermitte B, Wick W, Herold-Mende C, Hänggi D, Brandner S, Giangaspero F, Capper D, Rushing E, Wesseling P, Pfister SM, Figarella-Branger D, von Deimling A, Sahm F, Jones DTW. Rosette-forming glioneuronal tumors share a distinct DNA methylation profile and mutations in FGFR1, with recurrent co-mutation of PIK3CA and NF1. Acta Neuropathol. 2019 Sep;138(3):497-504. doi: 10.1007/s00401-019-02038-4. Epub 2019 Jun 27. PubMed PMID: 31250151.

39: Audigé L, Graf L, Flury M, Schneider MM, Müller AM. Functional improvement is sustained following anatomical and reverse shoulder arthroplasty for fracture sequelae: a registry-based analysis. Arch Orthop Trauma Surg. 2019 Jun 24. doi: 10.1007/s00402-019-03224-5. [Epub ahead of print] PubMed PMID: 31236674.

40: Le Rhun E, Preusser M, van den Bent M, Andratschke N, Weller M. How we treat patients with leptomeningeal metastases. ESMO Open. 2019 May 21;4(Suppl 2):e000507. doi: 10.1136/esmoopen-2019-000507. eCollection 2019. Review. PubMed PMID: 31231573; PubMed Central PMCID: PMC6555600.

41: Staartjes VE, Zattra CM, Akeret K, Maldaner N, Muscas G, Bas van Niftrik CH, Fierstra J, Regli L, Serra C. Neural network-based identification of patients at high risk for intraoperative cerebrospinal fluid leaks in endoscopic pituitary surgery. J Neurosurg. 2019 Jun 21:1-7. doi: 10.3171/2019.4.JNS19477. [Epub ahead of print] PubMed PMID: 31226693.

42: di Giacopo A, Baumann CR, Kurthen M, Capecchi F, Sürücü O, Imbach LL. Selective deep brain stimulation in the substantia nigra reduces myoclonus in progressive myoclonic epilepsy: a novel observation and short review of the literature. Epileptic Disord. 2019 Jun 1;21(3):283-288. doi: 10.1684/epd.2019.1072. PubMed PMID: 31225807.

43: Louis DN, Wesseling P, Brandner S, Brat DJ, Ellison DW, Giangaspero F, Hattab EM, Hawkins C, Judge MJ, Kleinschmidt-DeMasters B, Komori T, McLean C, Paulus W, Perry A, Reifenberger G, Weller M, Rous B. Data Sets for the Reporting of Tumors of the Central Nervous System. Arch Pathol Lab Med. 2019 Jun 20. doi: 10.5858/arpa.2018-0565-OA. [Epub ahead of print] PubMed PMID: 31219344.

44: Ames CP, Smith JS, Pellisé F, Kelly M, Alanay A, Acaroğlu E, Pérez-Grueso FJS, Kleinstück F, Obeid I, Vila-Casademunt A, Shaffrey CI Jr, Burton D, Lafage V, Schwab F, Shaffrey CI Sr, Bess S, Serra-Burriel M; European Spine Study Group, International Spine Study Group. Artificial Intelligence Based Hierarchical Clustering of Patient Types and Intervention Categories in Adult Spinal Deformity Surgery: Towards a New Classification Scheme that Predicts Quality and Value. Spine (Phila Pa 1976). 2019 Jul 1;44(13):915-926. doi: 10.1097/BRS.0000000000002974. PubMed PMID: 31205167.

45: Fregosi M, Contestabile A, Badoud S, Borgognon S, Cottet J, Brunet JF, Bloch J, Schwab ME, Rouiller EM. Corticotectal Projections From the Premotor or Primary Motor Cortex After Cortical Lesion or Parkinsonian Symptoms in Adult Macaque Monkeys: A Pilot Tracing Study. Front Neuroanat. 2019 May 22;13:50. doi: 10.3389/fnana.2019.00050. eCollection 2019. PubMed PMID: 31191260; PubMed Central PMCID: PMC6540615.

46: Padevit L, Sarnthein J, Stienen MN, Krayenbühl N, Bozinov O, Regli L, Neidert MC. Smoking status and perioperative adverse events in patients undergoing cranial tumor surgery. J Neurooncol. 2019 Aug;144(1):97-105. doi: 10.1007/s11060-019-03206-y. Epub 2019 Jun 11. PubMed PMID: 31183602.

47: Aimetti AA, Kirshblum S, Curt A, Mobley J, Grossman RG, Guest JD. Natural history of neurological improvement following complete (AIS A) thoracic spinal cord injury across three registries to guide acute clinical trial design and interpretation. Spinal Cord. 2019 Sep;57(9):753-762. doi: 10.1038/s41393-019-0299-8. Epub 2019 Jun 10. PubMed PMID: 31182786.

48: Nassiri F, Mamatjan Y, Suppiah S, Badhiwala JH, Mansouri S, Karimi S, Saarela O, Poisson L, Gepfner-Tuma I, Schittenhelm J, Ng HK, Noushmehr H, Harter P, Baumgarten P, Weller M, Preusser M, Herold-Mende C, Tatagiba M, Tabatabai G, Sahm F, von Deimling A, Zadeh G, Aldape KD; International Consortium on Meningiomas . DNA methylation profiling to predict recurrence risk in meningioma: development and validation of a nomogram to optimize clinical management. Neuro Oncol. 2019 Jun 3. pii: noz061. doi: 10.1093/neuonc/noz061. [Epub ahead of print] PubMed PMID: 31158293; PubMed Central PMCID: PMC6620635.

49: Gallay MN, Moser D, Federau C, Jeanmonod D. Radiological and Thermal Dose Correlations in Pallidothalamic Tractotomy With MRgFUS. Front Surg. 2019 May 17;6:28. doi:

10.3389/fsurg.2019.00028. eCollection 2019. PubMed PMID: 31157233; PubMed Central PMCID: PMC6533852.

50: Davies BM, Khan DZ, Mowforth OD, McNair AGK, Gronlund T, Kolias AG, Tetreault L, Starkey ML, Sadler I, Sarewitz E, Houlton D, Carter J, Kalsi-Ryan S, Aarabi B, Kwon BK, Kurpad SN, Harrop J, Wilson JR, Grossman R, Curt A, Fehlings MG, Kotter MRN. RE-CODE DCM (REsearch Objectives and Common Data Elements for Degenerative Cervical Myelopathy): A Consensus Process to Improve Research Efficiency in DCM, Through Establishment of a Standardized Dataset for Clinical Research and the Definition of the Research Priorities. Global Spine J. 2019 May;9(1 Suppl):65S-76S. doi: 10.1177/2192568219832855. Epub 2019 May 8. PubMed PMID: 31157148; PubMed Central PMCID: PMC6512197.

51: van Niftrik CHB, van der Wouden F, Staartjes VE, Fierstra J, Stienen MN, Akeret K, Sebök M, Fedele T, Sarnthein J, Bozinov O, Krayenbühl N, Regli L, Serra C. Machine Learning Algorithm Identifies Patients at High Risk for Early Complications After Intracranial Tumor Surgery: Registry-Based Cohort Study. Neurosurgery. 2019 May 31. pii: nyz145. doi: 10.1093/neuros/nyz145. [Epub ahead of print] PubMed PMID: 31149726.

52: Zarb Y, Franzoso FD, Keller A. Pericytes in Primary Familial Brain Calcification. Adv Exp Med Biol. 2019;1147:247-264. doi: 10.1007/978-3-030-16908-4_11. Review. PubMed PMID: 31147881.

53: Chou SH, Macdonald RL, Keller E; Unruptured Intracranial Aneurysms and SAH CDE Project Investigators. Biospecimens and Molecular and Cellular Biomarkers in Aneurysmal Subarachnoid Hemorrhage Studies: Common Data Elements and Standard Reporting Recommendations. Neurocrit Care. 2019 Jun;30(Suppl 1):46-59. doi: 10.1007/s12028-019-00725-4. PubMed PMID: 31144274.

54: Hejrati N, Spieler D, Samuel R, Regli L, Weyerbrock A, Surbeck W. Conscious Experience and Psychological Consequences of Awake Craniotomy. World Neurosurg. 2019 Sep;129:e381-e386. doi: 10.1016/j.wneu.2019.05.156. Epub 2019 May 25. PubMed PMID: 31136840.

55: Roder C, Hauser TK, Ernemann U, Tatagiba M, Khan N, Bender B. Arterial wall contrast enhancement in progressive moyamoya disease. J Neurosurg. 2019 May 24:1-9. doi: 10.3171/2019.2.JNS19106. [Epub ahead of print] PubMed PMID: 31125967.

56: Maldaner N, Sosnova M, Sarnthein J, Bozinov O, Regli L, Stienen MN. Predicting Functional Impairment in patients with chronic subdural hematoma treated with burr hole Trepanation-The FIT-score. Clin Neurol Neurosurg. 2019 Jul;182:142-147. doi: 10.1016/j.clineuro.2019.05.012. Epub 2019 May 14. PubMed PMID: 31125897.

57: Schröder ML, de Wispelaere MP, Staartjes VE. Predictors of loss of follow-up in a prospective registry: which patients drop out 12 months after lumbar spine surgery? Spine J. 2019 May 21. pii: S1529-9430(19)30188-3. doi: 10.1016/j.spinee.2019.05.007. [Epub ahead of print] PubMed PMID: 31125698.

58: Stienen MN, Visser-Meily JM, Schweizer TA, Hänggi D, Macdonald RL, Vergouwen MDI; Unruptured Intracranial Aneurysms and SAH CDE Project Investigators. Prioritization and Timing of Outcomes and Endpoints After Aneurysmal Subarachnoid Hemorrhage in Clinical Trials and Observational Studies: Proposal of a Multidisciplinary Research Group. Neurocrit Care. 2019 Jun;30(Suppl 1):102-113. doi: 10.1007/s12028-019-00737-0. PubMed PMID: 31123994.

59: Hackenberg KAM, Etminan N, Wintermark M, Meyers PM, Lanzino G, Rüfenacht D, Krings T, Huston J 3rd, Rinkel G, Derdeyn C; Unruptured Intracranial Aneurysms and SAH CDE Project Investigators. Common Data Elements for Radiological Imaging of Patients with Subarachnoid Hemorrhage: Proposal

of a Multidisciplinary Research Group. Neurocrit Care. 2019 Jun;30(Suppl 1):60-78. doi: 10.1007/s12028-019-00728-1. PubMed PMID: 31115823.

60: Flippot R, Biondani P, Auclin E, Xiao D, Hendriks L, Le Rhun E, Leduc C, Beau-Faller M, Gervais R, Remon J, Adam J, Planchard D, Lavaud P, Naltet C, Caramella C, Le Pechoux C, Lacroix L, Gazzah A, Mezquita L, Besse B. Activity of EGFR Tyrosine Kinase Inhibitors in NSCLC With Refractory Leptomeningeal Metastases. J Thorac Oncol. 2019 Aug;14(8):1400-1407. doi: 10.1016/j.jtho.2019.05.007. Epub 2019 May 18. PubMed PMID: 31108248.

61: Dias SF, Jehli E, Regli L, Sarnthein J, Germans MR. Multimodal Monitoring Strategy Is Decisive in Elective Middle Cerebral Artery Aneurysm Clipping: A Case Report. World Neurosurg. 2019 Feb;122:43-47. doi: 10.1016/j.wneu.2018.10.096. Epub 2018 Oct 25. PubMed PMID: 31108065.

62: Bucher B, Maldaner N, Regli L, Sarnthein J, Serra C. Standardized assessment of outcome and complications in chronic subdural hematoma: results from a large case series. Acta Neurochir (Wien). 2019 Jul;161(7):1297-1304. doi: 10.1007/s00701-019-03884-7. Epub 2019 May 20. PubMed PMID: 31106394.

63: Zipser CM, Deuel J, Ernst J, Schubert M, von Känel R, Böttger S. The predisposing and precipitating risk factors for delirium in neurosurgery: a prospective cohort study of 949 patients. Acta Neurochir (Wien). 2019 Jul;161(7):1307-1315. doi: 10.1007/s00701-019-03927-z. Epub 2019 May 20. PubMed PMID: 31106393.

64: Starnoni D, Maduri R, Al Taha K, Bervini D, Zumofen DW, Stienen MN, Schatlo B, Fung C, Robert T, Seule MA, Burkhardt JK, Maldaner N, Roethlisberger M, Blackham KA, Marbacher S, D'Alonzo D, Remonda L, Machi P, Gralla J, Bijlenga P, Saliou G, Ballabeni P, Levivier M; Swiss SOS Group, Messerer M, Daniel RT. Correction to: Ruptured PICA aneurysms: presentation and treatment outcomes compared to other posterior circulation aneurysms. A Swiss SOS study. Acta Neurochir (Wien). 2019 Jul;161(7):1335-1336. doi: 10.1007/s00701-019-03949-7. PubMed PMID: 31102005.

65: O'Donnell-Luria AH, Pais LS, Faundes V, Wood JC, Sveden A, Luria V, Abou Jamra R, Accogli A, Amburgey K, Anderlid BM, Azzarello-Burri S, Basinger AA, Bianchini C, Bird LM, Buchert R, Carre W, Ceulemans S, Charles P, Cox H, Culliton L, Currò A; Deciphering Developmental Disorders (DDD) Study, Demurger F, Dowling JJ, Duban-Bedu B, Dubourg C, Eiset SE, Escobar LF, Ferrarini A, Haack TB, Hashim M, Heide S, Helbig KL, Helbig I, Heredia R, Héron D, Isidor B, Jonasson AR, Joset P, Keren B, Kok F, Kroes HY, Lavillaureix A, Lu X, Maas SM, Maegawa GHB, Marcelis CLM, Mark PR, Masruha MR, McLaughlin HM, McWalter K, Melchinger EU, Mercimek-Andrews S, Nava C, Pendziwiat M, Person R, Ramelli GP, Ramos LLP, Rauch A, Reavey C, Renieri A, Rieß A, Sanchez-Valle A, Sattar S, Saunders C, Schwarz N, Smol T, Srour M, Steindl K, Syrbe S, Taylor JC, Telegrafi A, Thiffault I, Trauner DA, van der Linden H Jr, van Koningsbruggen S, Villard L, Vogel I, Vogt J, Weber YG, Wentzensen IM, Widjaja E, Zak J, Baxter S, Banka S, Rodan LH. Heterozygous Variants in KMT2E Cause a Spectrum of Neurodevelopmental Disorders and Epilepsy. Am J Hum Genet. 2019 Jun 6;104(6):1210-1222. doi: 10.1016/j.ajhg.2019.03.021. Epub 2019 May 9. PubMed PMID: 31079897; PubMed Central PMCID: PMC6556837.

66: Nowosielski M, Gorlia T, Bromberg JEC, Sahm F, Harting I, Kickingereder P, Brandes AA, Taphoorn MJB, Taal W, Domont J, Idbaih A, Campone M, Clement PM, Weller M, Fabbro M, Le Rhun E, Platten M, Golfinopoulos V, van den Bent MJ, Bendszus M, Wick W. Imaging necrosis during treatment is associated with worse survival in EORTC 26101 study. Neurology. 2019 Jun 11;92(24):e2754-e2763. doi: 10.1212/WNL.0000000000007643. Epub 2019 May 10. PubMed PMID: 31076534.

67: Paramasivam N, Hübschmann D, Toprak UH, Ishaque N, Neidert M, Schrimpf D, Stichel D, Reuss D,

Sievers P, Reinhardt A, Wefers AK, Jones DTW, Gu Z, Werner J, Uhrig S, Wirsching HG, Schick M, Bewerunge-Hudler M, Beck K, Brehmer S, Urbschat S, Seiz-Rosenhagen M, Hänggi D, Herold-Mende C, Ketter R, Eils R, Ram Z, Pfister SM, Wick W, Weller M, Grossmann R, von Deimling A, Schlesner M, Sahm F. Mutational patterns and regulatory networks in epigenetic subgroups of meningioma. Acta Neuropathol. 2019 Aug;138(2):295-308. doi: 10.1007/s00401-019-02008-w. Epub 2019 May 8. PubMed PMID: 31069492.

68: Stienen MN. Delirium in neurosurgery. Acta Neurochir (Wien). 2019 Jul;161(7):1305-1306. doi: 10.1007/s00701-019-03928-y. Epub 2019 May 6. PubMed PMID: 31062179.

69: Wirthschaft P, Bode J, Soni H, Dietrich F, Krüwel T, Fischer B, Knobbe-Thomsen CB, Rossetti G, Hentschel A, Mack N, Schönig K, Breckwoldt MO, Schmandke A, Pusch S, Medenbach J, Bendszus M, Schwab ME, von Deimling A, Kool M, Herold-Mende C, Reifenberger G, Ahrends R, Tews B. RhoA regulates translation of the Nogo-A decoy SPARC in white matter-invading glioblastomas. Acta Neuropathol. 2019 Aug;138(2):275-293. doi: 10.1007/s00401-019-02021-z. Epub 2019 May 6. PubMed PMID: 31062076; PubMed Central PMCID: PMC6660512.

70: van Niftrik CHB, Piccirelli M, Muscas G, Sebök M, Fisher JA, Bozinov O, Stippich C, Valavanis A, Regli L, Fierstra J. The voxel-wise analysis of false negative fMRI activation in regions of provoked impaired cerebrovascular reactivity. PLoS One. 2019 May 6;14(5):e0215294. doi: 10.1371/journal.pone.0215294. eCollection 2019. PubMed PMID: 31059517; PubMed Central PMCID: PMC6502350.

71: Boltshauser E. Differential Diagnosis in Neurology and Neurosurgery: A Clinician's Pocket Guide. Neuropediatrics. 2019 Aug;50(4):271-272. doi: 10.1055/s-0039-1688766. Epub 2019 May 2. PubMed PMID: 31049902.

72: Perez FA, Quinet S, Jarvik JG, Nguyen QT, Aghayev E, Jitjai D, Hwang WD, Jarvik ER, Nedeljkovic SS, Avins AL, Schwalb JM, Diehn FE, Standaert CJ, Nerenz DR, Annaswamy T, Bauer Z, Haynor D, Heagerty PJ, Friedly JL. Lumbar Spinal Stenosis Severity by CT or MRI Does Not Predict Response to Epidural Corticosteroid versus Lidocaine Injections. AJNR Am J Neuroradiol. 2019 May;40(5):908-915. doi: 10.3174/ajnr.A6050. Epub 2019 May 2. PubMed PMID: 31048295.

73: Stienen MN, Maldaner N, Joswig H, Corniola MV, Bellut D, Prömmel P, Regli L, Weyerbrock A, Schaller K, Gautschi OP. Objective functional assessment using the “Timed Up and Go” test in patients with lumbar spinal stenosis. Neurosurg Focus. 2019 May 1;46(5):E4. doi: 10.3171/2019.2.FOCUS18618. PubMed PMID: 31042663.

74: Siccoli A, de Wispelaere MP, Schröder ML, Staartjes VE. Machine learning-based preoperative predictive analytics for lumbar spinal stenosis. Neurosurg Focus. 2019 May 1;46(5):E5. doi: 10.3171/2019.2.FOCUS18723. PubMed PMID: 31042660.

75: Rubio-Gozalbo ME, Haskovic M, Bosch AM, Burnyte B, Coelho AI, Cassiman D, Couce ML, Dawson C, Demirbas D, Derks T, Eyskens F, Forga MT, Grunewald S, Häberle J, Hochuli M, Hubert A, Huidekoper HH, Janeiro P, Kotzka J, Knerr I, Labrune P, Landau YE, Langendonk JG, Möslinger D, Müller-Wieland D, Murphy E, Õunap K, Ramadza D, Rivera IA, Scholl-Buergi S, Stepien KM, Thijs A, Tran C, Vara R, Visser G, Vos R, de Vries M, Waisbren SE, Welsink-Karssies MM, Wortmann SB, Gautschi M, Treacy EP, Berry GT. The natural history of classic galactosemia: lessons from the GalNet registry. Orphanet J Rare Dis. 2019 Apr 27;14(1):86. doi: 10.1186/s13023-019-1047-z. PubMed PMID: 31029175; PubMed Central PMCID: PMC6486996.

76: Ulrich NH, Burgstaller JM, Gravestock I, Pichierri G, Wertli MM, Steurer J, Farshad M, Porchet F.

Outcome of unilateral versus standard open midline approach for bilateral decompression in lumbar spinal stenosis: is “over the top” really better? A Swiss prospective multicenter cohort study. J Neurosurg Spine. 2019 Apr 26:1-10. doi: 10.3171/2019.2.SPINE181309. [Epub ahead of print] PubMed PMID: 31026821.

77: Starnoni D, Maduri R, Al Taha K, Bervini D, Zumofen DW, Stienen MN, Schatlo B, Fung C, Robert T, Seule MA, Burkhardt JK, Maldaner N, Rothlisberger M, Blackham KA, Marbacher S, D'Alonzo D, Remonda L, Machi P, Gralla J, Bijlenga P, Saliou G, Ballabeni P, Levivier M, Messerer M; Swiss SOS Group, Daniel RT. Ruptured PICA aneurysms: presentation and treatment outcomes compared to other posterior circulation aneurysms. A Swiss SOS study. Acta Neurochir (Wien). 2019 Jul;161(7):1325-1334. doi: 10.1007/s00701-019-03894-5. Epub 2019 Apr 26. Erratum in: Acta Neurochir (Wien). 2019 May 17;:. PubMed PMID: 31025178.

78: Binder H, Willscher E, Loeffler-Wirth H, Hopp L, Jones DTW, Pfister SM, Kreuz M, Gramatzki D, Fortenbacher E, Hentschel B, Tatagiba M, Herrlinger U, Vatter H, Matschke J, Westphal M, Krex D, Schackert G, Tonn JC, Schlegel U, Steiger HJ, Wick W, Weber RG, Weller M, Loeffler M. DNA methylation, transcriptome and genetic copy number signatures of diffuse cerebral WHO grade II/III gliomas resolve cancer heterogeneity and development. Acta Neuropathol Commun. 2019 Apr 25;7(1):59. doi: 10.1186/s40478-019-0704-8. PubMed PMID: 31023364; PubMed Central PMCID: PMC6482573.

79: Kugathasan U, Evans MRB, Morrow JM, Sinclair CDJ, Thornton JS, Yousry TA, Hornemann T, Suriyanarayanan S, Owusu-Ansah K, Lauria G, Lombardi R, Polke JM, Wilson E, Bennett DLH, Houlden H, Hanna MG, Blake JC, Laura M, Reilly MM. Development of MRC Centre MRI calf muscle fat fraction protocol as a sensitive outcome measure in Hereditary Sensory Neuropathy Type 1. J Neurol Neurosurg Psychiatry. 2019 Aug;90(8):895-906. doi: 10.1136/jnnp-2018-320198. Epub 2019 Apr 17. PubMed PMID: 30995999.

80: Zhao YH, Wang ZF, Pan ZY, Péus D, Delgado-Fernandez J, Pallud J, Li ZQ. A Meta-Analysis of Survival Outcomes Following Reoperation in Recurrent Glioblastoma: Time to Consider the Timing of Reoperation. Front Neurol. 2019 Mar 26;10:286. doi: 10.3389/fneur.2019.00286. eCollection 2019. PubMed PMID: 30984099; PubMed Central PMCID: PMC6448034.

81: Salamanca L, Mechawar N, Murai KK, Balling R, Bouvier DS, Skupin A. MIC-MAC: An automated pipeline for high-throughput characterization and classification of three-dimensional microglia morphologies in mouse and human postmortem brain samples. Glia. 2019 Aug;67(8):1496-1509. doi: 10.1002/glia.23623. Epub 2019 Apr 14. PubMed PMID: 30983036; PubMed Central PMCID: PMC6617786.

82: Blight AR, Hsieh J, Curt A, Fawcett JW, Guest JD, Kleitman N, Kurpad SN, Kwon BK, Lammertse DP, Weidner N, Steeves JD. The challenge of recruitment for neurotherapeutic clinical trials in spinal cord injury. Spinal Cord. 2019 May;57(5):348-359. doi: 10.1038/s41393-019-0276-2. Epub 2019 Apr 8. Review. PubMed PMID: 30962518.

83: Siccoli A, Klukowska AM, Schröder ML, Staartjes VE. A Systematic Review and Meta-Analysis of Perioperative Parameters in Robot-Guided, Navigated, and Freehand Thoracolumbar Pedicle Screw Instrumentation. World Neurosurg. 2019 Jul;127:576-587.e5. doi: 10.1016/j.wneu.2019.03.196. Epub 2019 Apr 4. Review. PubMed PMID: 30954747.

84: Serra C, Staartjes VE, Maldaner N, Muscas G, Akeret K, Holzmann D, Soyka MB, Schmid C, Regli L. Response to “Going beyond scoring systems for cavernous sinus involvement in trans-sphenoidal pituitary surgery”. Acta Neurochir (Wien). 2019 May;161(5):1035-1036. doi:

10.1007/s00701-019-03891-8. Epub 2019 Apr 5. PubMed PMID: 30953155.

85: Macdonald RL, Katan M. Haptoglobin and hemoglobin in subarachnoid hemorrhage: A tale of 2 globins. Neurology. 2019 Apr 30;92(18):831-832. doi: 10.1212/WNL.0000000000007399. Epub 2019 Apr 5. PubMed PMID: 30952791.

86: Held U, Steurer J, Pichierri G, Wertli MM, Farshad M, Brunner F, Guggenberger R, Porchet F, Fekete TF, Schmid UD, Gravestock I, Burgstaller JM. What is the treatment effect of surgery compared with nonoperative treatment in patients with lumbar spinal stenosis at 1-year follow-up? J Neurosurg Spine. 2019 Apr 5:1-9. doi: 10.3171/2019.1.SPINE181098. [Epub ahead of print] PubMed PMID: 30952135.

87: Wang SS, Yang Y, Velz J, Keller E, Luft AR, Regli L, Neidert MC, Bozinov O. Management of brainstem haemorrhages. Swiss Med Wkly. 2019 Apr 5;149:w20062. doi: 10.4414/smw.2019.20062. eCollection 2019 Mar 25. PubMed PMID: 30950504.

88: Warner FM, Jutzeler CR, Cragg JJ, Tong B, Grassner L, Bradke F, Geisler F, Kramer JK. The Effect of Non-Gabapentinoid Anticonvulsants on Sensorimotor Recovery After Human Spinal Cord Injury. CNS Drugs. 2019 May;33(5):503-511. doi: 10.1007/s40263-019-00622-6. PubMed PMID: 30949923.

89: Hong A, Boehler Q, Moser R, Zemmar A, Stieglitz L, Nelson BJ. 3D path planning for flexible needle steering in neurosurgery. Int J Med Robot. 2019 Aug;15(4):e1998. doi: 10.1002/rcs.1998. Epub 2019 May 9. PubMed PMID: 30945791.

90: Stienen MN, Bellut D, Stojanov D, Eriks-Hoogland I, Regli L, Oertel MF. [Reversible Paraplegia - Favorable Outcome After Delayed Diagnosis]. Praxis (Bern 1994). 2019;108(5):341-345. doi: 10.1024/1661-8157/a003205. German. PubMed PMID: 30940039.

91: Lachenmayer ML, Bettschen C, Bernasconi C, Petermann K, Debove I, Muellner J, Michelis JP, Burgunder JM, Krauss JK, Oertel MF, Pollo C, Kaelin-Lang A, Schüpbach M. Stimulation of the globus pallidus internus in the treatment of Parkinson's disease: Long-term results of a monocentric cohort. Parkinsonism Relat Disord. 2019 Mar 16. pii: S1353-8020(19)30102-6. doi: 10.1016/j.parkreldis.2019.03.009. [Epub ahead of print] PubMed PMID: 30935828.

92: Staartjes VE, de Wispelaere MP, Schröder ML. Improving recovery after elective degenerative spine surgery: 5-year experience with an enhanced recovery after surgery (ERAS) protocol. Neurosurg Focus. 2019 Apr 1;46(4):E7. doi: 10.3171/2019.1.FOCUS18646. PubMed PMID: 30933924.

93: Hainc N, Stippich C, Reinhardt J, Stieltjes B, Blatow M, Mariani L, Bink A. Golden-angle radial sparse parallel (GRASP) MRI in clinical routine detection of pituitary microadenomas: First experience and feasibility. Magn Reson Imaging. 2019 Jul;60:38-43. doi: 10.1016/j.mri.2019.03.015. Epub 2019 Mar 27. PubMed PMID: 30928387.

94: Stienen MN, Bartek J Jr, Czabanka MA, Freyschlag CF, Kolias A, Krieg SM, Moojen W, Renovanz M, Sampron N, Adib SD, Schubert GA, Demetriades AK, Ringel F, Regli L, Schaller K, Meling TR; EANS Young Neurosurgeons and EANS Training Committee. Neurosurgical procedures performed during residency in Europe-preliminary numbers and time trends. Acta Neurochir (Wien). 2019 May;161(5):843-853. doi: 10.1007/s00701-019-03888-3. Epub 2019 Mar 29. PubMed PMID: 30927157.

95: Körber V, Yang J, Barah P, Wu Y, Stichel D, Gu Z, Fletcher MNC, Jones D, Hentschel B, Lamszus K, Tonn JC, Schackert G, Sabel M, Felsberg J, Zacher A, Kaulich K, Hübschmann D, Herold-Mende C, von Deimling A, Weller M, Radlwimmer B, Schlesner M, Reifenberger G, Höfer T, Lichter P. Evolutionary Trajectories of IDH(WT) Glioblastomas Reveal a Common Path of Early Tumorigenesis Instigated Years ahead of Initial Diagnosis. Cancer Cell. 2019 Apr 15;35(4):692-704.e12. doi:

10.1016/j.ccell.2019.02.007. Epub 2019 Mar 21. PubMed PMID: 30905762.

96: Ames CP, Smith JS, Pellisé F, Kelly MP, Gum JL, Alanay A, Acaroğlu E, Pérez-Grueso FJS, Kleinstück FS, Obeid I, Vila-Casademunt A, Burton DC, Lafage V, Schwab FJ, Shaffrey CI, Bess S, Serra-Burriel M; European Spine Study Group, International Spine Study Group. Development of Deployable Predictive Models for Minimal Clinically Important Difference Achievement Across the Commonly Used Health-related Quality of Life Instruments in Adult Spinal Deformity Surgery. Spine (Phila Pa 1976). 2019 Aug 15;44(16):1144-1153. doi: 10.1097/BRS.0000000000003031. PubMed PMID: 30896589.

97: Fedele T, Ramantani G, Sarnthein J. High frequency oscillations as markers of epileptogenic tissue - End of the party? Clin Neurophysiol. 2019 May;130(5):624-626. doi: 10.1016/j.clinph.2019.01.016. Epub 2019 Feb 12. PubMed PMID: 30870797.

98: Weller M, Le Rhun E. Immunotherapy for glioblastoma: quo vadis? Nat Rev Clin Oncol. 2019 Jul;16(7):405-406. doi: 10.1038/s41571-019-0195-3. PubMed PMID: 30867572.

99: Kadooka K, Hagenbuch N, Anagnostakou V, Valavanis A, Kulcsár Z. Safety and efficacy of balloon angioplasty in symptomatic intracranial stenosis: A systematic review and meta-analysis. J Neuroradiol. 2019 Mar 9. pii: S0150-9861(18)30379-1. doi: 10.1016/j.neurad.2019.02.007. [Epub ahead of print] PubMed PMID: 30862462.

100: Triplett JD, Buzzard KA, Lubomski M, Riminton DS, Barnett MH, Welgampola MS, Halmagyi GM, Nguyen M, Landau K, Lee AG, Plant GT, Fraser CL, Reddel SW, Hardy TA. Immune-mediated conditions affecting the brain, eye and ear (BEE syndromes). J Neurol Neurosurg Psychiatry. 2019 Aug;90(8):882-894. doi: 10.1136/jnnp-2018-319002. Epub 2019 Mar 9. Review. PubMed PMID: 30852493.

101: Jeszenszky D, Kaiser B, Meuli M, Fekete TF, Haschtmann D. Surgical growth guidance with non-fused anchoring segments in early-onset scoliosis. Eur Spine J. 2019 Jun;28(6):1301-1313. doi: 10.1007/s00586-019-05934-1. Epub 2019 Mar 8. Erratum in: Eur Spine J. 2019 Aug 28;:. PubMed PMID: 30848364.

102: Alisauskaite N, Cizinauskas S, Jeserevics J, Rakauskas M, Cherubini GB, Anttila M, Steffen F. Short- and long-term outcome and magnetic resonance imaging findings after surgical treatment of thoracolumbar spinal arachnoid diverticula in 25 Pugs. J Vet Intern Med. 2019 May;33(3):1376-1383. doi: 10.1111/jvim.15470. Epub 2019 Mar 7. PubMed PMID: 30844093; PubMed Central PMCID: PMC6524397.

103: Cruzeiro GAV, Salomão KB, de Biagi CAO Jr, Baumgartner M, Sturm D, Lira RCP, de Almeida Magalhães T, Baroni Milan M, da Silva Silveira V, Saggioro FP, de Oliveira RS, Dos Santos Klinger PH, Seidinger AL, Yunes JA, de Paula Queiroz RG, Oba-Shinjo SM, Scrideli CA, Nagahashi SMK, Tone LG, Valera ET. A simplified approach using Taqman low-density array for medulloblastoma subgrouping. Acta Neuropathol Commun. 2019 Mar 4;7(1):33. doi: 10.1186/s40478-019-0681-y. PubMed PMID: 30832734; PubMed Central PMCID: PMC6398239.

104: Stienen MN, Ho AL, Staartjes VE, Maldaner N, Veeravagu A, Desai A, Gautschi OP, Bellut D, Regli L, Ratliff JK, Park J. Objective measures of functional impairment for degenerative diseases of the lumbar spine: a systematic review of the literature. Spine J. 2019 Jul;19(7):1276-1293. doi: 10.1016/j.spinee.2019.02.014. Epub 2019 Mar 2. Review. PubMed PMID: 30831316.

105: Velz J, Neidert MC, Lauk O, Inci I, Bellut D, Rushing E. A 32-Year-Old Women with an Intra- and Paraspinal, Extradural Mass at T10-T12. Brain Pathol. 2019 Mar;29(2):309-310. doi: 10.1111/bpa.12708. PubMed PMID: 30821031.

106: Sze L, Tschopp O, Neidert MC, Bernays RL, Ghirlanda C, Zwimpfer C, Wiesli P, Schmid C. Soluble delta-like 1 homolog decreases in patients with acromegaly following pituitary surgery: A potential mediator of adipogenesis suppression by growth hormone? Growth Horm IGF Res. 2019 Apr;45:20-24. doi: 10.1016/j.ghir.2019.02.002. Epub 2019 Feb 18. Erratum in: Growth Horm IGF Res. 2019 Aug 26;:. PubMed PMID: 30818110.

107: Klement RJ, Abbasi-Senger N, Adebahr S, Alheid H, Allgaeuer M, Becker G, Blanck O, Boda-Heggemann J, Brunner T, Duma M, Eble MJ, Ernst I, Gerum S, Habermehl D, Hass P, Henkenberens C, Hildebrandt G, Imhoff D, Kahl H, Klass ND, Krempien R, Lewitzki V, Lohaus F, Ostheimer C, Papachristofilou A, Petersen C, Rieber J, Schneider T, Schrade E, Semrau R, Wachter S, Wittig A, Guckenberger M, Andratschke N. The impact of local control on overall survival after stereotactic body radiotherapy for liver and lung metastases from colorectal cancer: a combined analysis of 388 patients with 500 metastases. BMC Cancer. 2019 Feb 26;19(1):173. doi: 10.1186/s12885-019-5362-5. PubMed PMID: 30808323; PubMed Central PMCID: PMC6390357.

108: Serra C, Regli L. Response to: “No doubt: the invasion of the cavernous sinus is the limiting factor for complete resection in pituitary neuroendocrine tumors”. Acta Neurochir (Wien). 2019 Apr;161(4):719-720. doi: 10.1007/s00701-018-03787-z. Epub 2019 Feb 26. PubMed PMID: 30806778.

109: Zarb Y, Weber-Stadlbauer U, Kirschenbaum D, Kindler DR, Richetto J, Keller D, Rademakers R, Dickson DW, Pasch A, Byzova T, Nahar K, Voigt FF, Helmchen F, Boss A, Aguzzi A, Klohs J, Keller A. Ossified blood vessels in primary familial brain calcification elicit a neurotoxic astrocyte response. Brain. 2019 Apr 1;142(4):885-902. doi: 10.1093/brain/awz032. PubMed PMID: 30805583; PubMed Central PMCID: PMC6439320.

110: Maduri R, Starnoni D, Rocca A, Bervini D, Zumofen DW, Stienen MN, Schatlo B, Fung C, Robert T, Seule MA, Burkhardt JK, Maldaner N, Rothlisberger M, Blackham KA, Marbacher S, D'Alonzo D, Remonda L, Machi P, Gralla J, Bijlenga P, Saliou G, Ballabeni P, Levivier M, Messerer M, Daniel RT; Swiss SOS Group. Correction to: Ruptured posterior circulation aneurysms: epidemiology, patterns of care, and outcomes from the Swiss SOS national registry. Acta Neurochir (Wien). 2019 Apr;161(4):781. doi: 10.1007/s00701-019-03837-0. PubMed PMID: 30796586.

111: Langer N, Benjamin C, Becker BLC, Gaab N. Comorbidity of reading disabilities and ADHD: Structural and functional brain characteristics. Hum Brain Mapp. 2019 Jun 15;40(9):2677-2698. doi: 10.1002/hbm.24552. Epub 2019 Feb 19. PubMed PMID: 30784139; PubMed Central PMCID: PMC6508987.

112: Herrlinger U, Tzaridis T, Mack F, Steinbach JP, Schlegel U, Sabel M, Hau P, Kortmann RD, Krex D, Grauer O, Goldbrunner R, Schnell O, Bähr O, Uhl M, Seidel C, Tabatabai G, Kowalski T, Ringel F, Schmidt-Graf F, Suchorska B, Brehmer S, Weyerbrock A, Renovanz M, Bullinger L, Galldiks N, Vajkoczy P, Misch M, Vatter H, Stuplich M, Schäfer N, Kebir S, Weller J, Schaub C, Stummer W, Tonn JC, Simon M, Keil VC, Nelles M, Urbach H, Coenen M, Wick W, Weller M, Fimmers R, Schmid M, Hattingen E, Pietsch T, Coch C, Glas M; Neurooncology Working Group of the German Cancer Society. Lomustine-temozolomide combination therapy versus standard temozolomide therapy in patients with newly diagnosed glioblastoma with methylated MGMT promoter (CeTeG/NOA-09): a randomised, open-label, phase 3 trial. Lancet. 2019 Feb 16;393(10172):678-688. doi: 10.1016/S0140-6736(18)31791-4. Epub 2019 Feb 14. PubMed PMID: 30782343.

113: Huemer M, Diodato D, Martinelli D, Olivieri G, Blom H, Gleich F, Kölker S, Kožich V, Morris AA, Seifert B, Froese DS, Baumgartner MR, Dionisi-Vici C; EHOD consortium, Martin CA, Baethmann M, Ballhausen D, Blasco-Alonso J, Boy N, Bueno M, Burgos Peláez R, Cerone R, Chabrol B, Chapman KA, Couce ML, Crushell E, Dalmau Serra J, Diogo L, Ficicioglu C, García Jimenez MC, García Silva MT,

Gaspar AM, Gautschi M, González-Lamuño D, Gouveia S, Grünewald S, Hendriksz C, Janssen MCH, Jesina P, Koch J, Konstantopoulou V, Lavigne C, Lund AM, Martins EG, Meavilla Olivas S, Mention K, Mochel F, Mundy H, Murphy E, Paquay S, Pedrón-Giner C, Ruiz Gómez MA, Santra S, Schiff M, Schwartz IV, Scholl-Bürgi S, Servais A, Skouma A, Tran C, Vives Piñera I, Walter J, Weisfeld-Adams J. Phenotype, treatment practice and outcome in the cobalamin-dependent remethylation disorders and MTHFR deficiency: Data from the E-HOD registry. J Inherit Metab Dis. 2019 Mar;42(2):333-352. doi: 10.1002/jimd.12041. Epub 2019 Feb 17. PubMed PMID: 30773687.

114: Nieder C, Guckenberger M, Gaspar LE, Rusthoven CG, De Ruysscher D, Sahgal A, Nguyen T, Grosu AL, Mehta MP. Management of patients with brain metastases from non-small cell lung cancer and adverse prognostic features: multi-national radiation treatment recommendations are heterogeneous. Radiat Oncol. 2019 Feb 15;14(1):33. doi: 10.1186/s13014-019-1237-9. PubMed PMID: 30770745; PubMed Central PMCID: PMC6377775.

115: Pires da Silva I, Glitza IC, Haydu LE, Johnpulle R, Banks PD, Grass GD, Goldinger SMA, Smith JL, Everett AS, Koelblinger P, Roberts-Thomson R, Millward M, Atkinson VG, Guminski A, Kapoor R, Conry RM, Carlino MS, Wang W, Shackleton MJ, Eroglu Z, Lo S, Hong AM, Long GV, Johnson DB, Menzies AM. Incidence, features and management of radionecrosis in melanoma patients treated with cerebral radiotherapy and anti-PD-1 antibodies. Pigment Cell Melanoma Res. 2019 Jul;32(4):553-563. doi: 10.1111/pcmr.12775. Epub 2019 Mar 3. PubMed PMID: 30767428.

116: Hendrik Bas van Niftrik C, Sebök M, Muscas G, Piccirelli M, Serra C, Krayenbühl N, Pangalu A, Bozinov O, Luft A, Stippich C, Regli L, Fierstra J. Characterizing ipsilateral thalamic diaschisis in symptomatic cerebrovascular steno-occlusive patients. J Cereb Blood Flow Metab. 2019 Feb 12:271678×19830532. doi: 10.1177/0271678×19830532. [Epub ahead of print] PubMed PMID: 30755133.

117: Hauser TK, Seeger A, Bender B, Klose U, Thurow J, Ernemann U, Tatagiba M, Meyer PT, Khan N, Roder C. Hypercapnic BOLD MRI compared to H(2)(15)O PET/CT for the hemodynamic evaluation of patients with Moyamoya Disease. Neuroimage Clin. 2019;22:101713. doi: 10.1016/j.nicl.2019.101713. Epub 2019 Feb 4. PubMed PMID: 30743136; PubMed Central PMCID: PMC6370561.

118: Stienen MN, Smoll NR, Fung C, Goldberg J, Bervini D, Maduri R, Chiappini A, Robert T, May A, Bijlenga P, Zumofen D, Roethlisberger M, Seule MA, Marbacher S, Fandino J, Schatlo B, Schaller K, Keller E, Bozinov O, Regli L; Swiss SOS Study Group. Home-Time as a Surrogate Marker for Functional Outcome After Aneurysmal Subarachnoid Hemorrhage. Stroke. 2018 Dec;49(12):3081-3084. doi: 10.1161/STROKEAHA.118.022808. PubMed PMID: 30735342.

119: Gallay MN, Moser D, Federau C, Jeanmonod D. Anatomical and Technical Reappraisal of the Pallidothalamic Tractotomy With the Incisionless Transcranial MR-Guided Focused Ultrasound. A Technical Note. Front Surg. 2019 Jan 24;6:2. doi: 10.3389/fsurg.2019.00002. eCollection 2019. PubMed PMID: 30733946; PubMed Central PMCID: PMC6353787.

120: Müller MD, Jongen LM, Altinbas A, Blackham KA, Nederkoorn PJ, Macdonald S, Jäger R, Wolff T, Lyrer PA, Kappelle LJ, Wetzel SG, Richards T, Hendrikse J, de Borst GJ, van der Worp HB, Engelter ST, Werring DJ, Brown MM, Bonati LH; ICSS-MRI Study Investigators. Silent Intracerebral Hemorrhage in Patients Randomized to Stenting or Endarterectomy for Symptomatic Carotid Stenosis. J Stroke. 2019 Jan;21(1):116-119. doi: 10.5853/jos.2018.02838. Epub 2019 Jan 31. PubMed PMID: 30732448; PubMed Central PMCID: PMC6372891.

121: Post R, Germans MR, Boogaarts HD, Ferreira Dias Xavier B, Van den Berg R, Coert BA, Vandertop WP, Verbaan D. Short-term tranexamic acid treatment reduces in-hospital mortality in aneurysmal

sub-arachnoid hemorrhage: A multicenter comparison study. PLoS One. 2019 Feb 7;14(2):e0211868. doi: 10.1371/journal.pone.0211868. eCollection 2019. PubMed PMID: 30730957; PubMed Central PMCID: PMC6366882.

122: Yang Y, van Niftrik B, Ma X, Velz J, Wang S, Regli L, Bozinov O. Analysis of safe entry zones into the brainstem. Neurosurg Rev. 2019 Sep;42(3):721-729. doi: 10.1007/s10143-019-01081-9. Epub 2019 Feb 6. PubMed PMID: 30726522.

123: Akeret K, Germans M, Sun W, Kulcsar Z, Regli L. Subarachnoid hemorrhage due to flow-related dissection of the posterior inferior cerebellar artery associated with a distal arteriovenous malformation. World Neurosurg. 2019 Feb 2. pii: S1878-8750(19)30248-7. doi: 10.1016/j.wneu.2019.01.148. [Epub ahead of print] PubMed PMID: 30721771.

124: Muscas G, Bas van Niftrik CH, Fierstra J, Piccirelli M, Sebök M, Burkhardt JK, Valavanis A, Pangalu A, Regli L, Bozinov O. Feasibility and safety of intraoperative BOLD functional MRI cerebrovascular reactivity to evaluate extracranial-to-intracranial bypass efficacy. Neurosurg Focus. 2019 Feb 1;46(2):E7. doi: 10.3171/2018.11.FOCUS18502. PubMed PMID: 30717072.

125: Le Rhun E, Devos P, Boulanger T, Smits M, Brandsma D, Rudà R, Furtner J, Hempel JM, Postma TJ, Roth P, Snijders TJ, Winkler F, Winklhofer S, Castellano A, Hattingen E, Capellades J, Gorlia T, Van den Bent M, Wen PY, Bendszus M, Weller M; European Organisation for Research and Treatment of Cancer (EORTC) Brain Tumor Group (BTG) Central Nervous System (CNS) Metastases Committee and the EORTC BTG Imaging Committee. The RANO Leptomeningeal Metastasis Group proposal to assess response to treatment: lack of feasibility and clinical utility and a revised proposal. Neuro Oncol. 2019 May 6;21(5):648-658. doi: 10.1093/neuonc/noz024. PubMed PMID: 30715514; PubMed Central PMCID: PMC6502503.

126: Akeret K, Serra C, Rafi O, Staartjes VE, Fierstra J, Bellut D, Maldaner N, Imbach LL, Wolpert F, Poryazova R, Regli L, Krayenbühl N. Anatomical features of primary brain tumors affect seizure risk and semiology. Neuroimage Clin. 2019;22:101688. doi: 10.1016/j.nicl.2019.101688. Epub 2019 Jan 25. PubMed PMID: 30710869; PubMed Central PMCID: PMC6354289.

127: Ma X, Yang Y, Liu D, Zhou Y, Jia W. Demographic and morphological characteristics associated with rupture status of anterior communicating artery aneurysms. Neurosurg Rev. 2019 Jan 31. doi: 10.1007/s10143-019-01080-w. [Epub ahead of print] PubMed PMID: 30706157.

128: Vasella F, Velz J, Neidert MC, Henzi S, Sarnthein J, Krayenbühl N, Bozinov O, Regli L, Stienen MN. Safety of resident training in the microsurgical resection of intracranial tumors: Data from a prospective registry of complications and outcome. Sci Rep. 2019 Jan 30;9(1):954. doi: 10.1038/s41598-018-37533-3. PubMed PMID: 30700746; PubMed Central PMCID: PMC6353994.

129: Staartjes VE, Beusekamp F, Schröder ML. Can objective functional impairment in lumbar degenerative disease be reliably assessed at home using the five-repetition sit-to-stand test? A prospective study. Eur Spine J. 2019 Apr;28(4):665-673. doi: 10.1007/s00586-019-05897-3. Epub 2019 Jan 24. PubMed PMID: 30680635.

130: Maduri R, Starnoni D, Rocca A, Bervini D, Zumofen DW, Stienen MN, Schatlo B, Fung C, Robert T, Seule MA, Burkhardt JK, Maldaner N, Rothlisberger M, Blackham KA, Marbacher S, D'Alonzo D, Remonda L, Machi P, Gralla J, Bijlenga P, Saliou G, Ballabeni P, Levivier M, Messerer M, Daniel RT; Swiss SOS Group. Ruptured posterior circulation aneurysms: epidemiology, patterns of care, and outcomes from the Swiss SOS national registry. Acta Neurochir (Wien). 2019 Apr;161(4):769-779. doi: 10.1007/s00701-019-03812-9. Epub 2019 Jan 25. Erratum in: Acta Neurochir (Wien). 2019 Feb 23;:.

PubMed PMID: 30680461.

131: Boire A, Brandsma D, Brastianos PK, Le Rhun E, Ahluwalia M, Junck L, Glantz M, Groves MD, Lee EQ, Lin N, Raizer J, Rudà R, Weller M, Van den Bent MJ, Vogelbaum MA, Chang S, Wen PY, Soffietti R. Liquid biopsy in central nervous system metastases: a RANO review and proposals for clinical applications. Neuro Oncol. 2019 May 6;21(5):571-584. doi: 10.1093/neuonc/noz012. PubMed PMID: 30668804; PubMed Central PMCID: PMC6502489.

132: Théry C, Witwer KW, Aikawa E, Alcaraz MJ, Anderson JD, Andriantsitohaina R, Antoniou A, Arab T, Archer F, Atkin-Smith GK, Ayre DC, Bach JM, Bachurski D, Baharvand H, Balaj L, Baldacchino S, Bauer NN, Baxter AA, Bebawy M, Beckham C, Bedina Zavec A, Benmoussa A, Berardi AC, Bergese P, Bielska E, Blenkiron C, Bobis-Wozowicz S, Boilard E, Boireau W, Bongiovanni A, Borràs FE, Bosch S, Boulanger CM, Breakefield X, Breglio AM, Brennan MÁ, Brigstock DR, Brisson A, Broekman ML, Bromberg JF, Bryl-Górecka P, Buch S, Buck AH, Burger D, Busatto S, Buschmann D, Bussolati B, Buzás EI, Byrd JB, Camussi G, Carter DR, Caruso S, Chamley LW, Chang YT, Chen C, Chen S, Cheng L, Chin AR, Clayton A, Clerici SP, Cocks A, Cocucci E, Coffey RJ, Cordeiro-da-Silva A, Couch Y, Coumans FA, Coyle B, Crescitelli R, Criado MF, D'Souza-Schorey C, Das S, Datta Chaudhuri A, de Candia P, De Santana EF, De Wever O, Del Portillo HA, Demaret T, Deville S, Devitt A, Dhondt B, Di Vizio D, Dieterich LC, Dolo V, Dominguez Rubio AP, Dominici M, Dourado MR, Driedonks TA, Duarte FV, Duncan HM, Eichenberger RM, Ekström K, El Andaloussi S, Elie-Caille C, Erdbrügger U, Falcón-Pérez JM, Fatima F, Fish JE, Flores-Bellver M, Försönits A, Frelet-Barrand A, Fricke F, Fuhrmann G, Gabrielsson S, Gámez-Valero A, Gardiner C, Gärtner K, Gaudin R, Gho YS, Giebel B, Gilbert C, Gimona M, Giusti I, Goberdhan DC, Görgens A, Gorski SM, Greening DW, Gross JC, Gualerzi A, Gupta GN, Gustafson D, Handberg A, Haraszti RA, Harrison P, Hegyesi H, Hendrix A, Hill AF, Hochberg FH, Hoffmann KF, Holder B, Holthofer H, Hosseinkhani B, Hu G, Huang Y, Huber V, Hunt S, Ibrahim AG, Ikezu T, Inal JM, Isin M, Ivanova A, Jackson HK, Jacobsen S, Jay SM, Jayachandran M, Jenster G, Jiang L, Johnson SM, Jones JC, Jong A, Jovanovic-Talisman T, Jung S, Kalluri R, Kano SI, Kaur S, Kawamura Y, Keller ET, Khamari D, Khomyakova E, Khvorova A, Kierulf P, Kim KP, Kislinger T, Klingeborn M, Klinke DJ 2nd, Kornek M, Kosanović MM, Kovács ÁF, Krämer-Albers EM, Krasemann S, Krause M, Kurochkin IV, Kusuma GD, Kuypers S, Laitinen S, Langevin SM, Languino LR, Lannigan J, Lässer C, Laurent LC, Lavieu G, Lázaro-Ibáñez E, Le Lay S, Lee MS, Lee YXF, Lemos DS, Lenassi M, Leszczynska A, Li IT, Liao K, Libregts SF, Ligeti E, Lim R, Lim SK, Linē A, Linnemannstöns K, Llorente A, Lombard CA, Lorenowicz MJ, Lörincz ÁM, Lötvall J, Lovett J, Lowry MC, Loyer X, Lu Q, Lukomska B, Lunavat TR, Maas SL, Malhi H, Marcilla A, Mariani J, Mariscal J, Martens-Uzunova ES, Martin-Jaular L, Martinez MC, Martins VR, Mathieu M, Mathivanan S, Maugeri M, McGinnis LK, McVey MJ, Meckes DG Jr, Meehan KL, Mertens I, Minciacchi VR, Möller A, Møller Jørgensen M, Morales-Kastresana A, Morhayim J, Mullier F, Muraca M, Musante L, Mussack V, Muth DC, Myburgh KH, Najrana T, Nawaz M, Nazarenko I, Nejsum P, Neri C, Neri T, Nieuwland R, Nimrichter L, Nolan JP, Nolte-'t Hoen EN, Noren Hooten N, O'Driscoll L, O'Grady T, O'Loghlen A, Ochiya T, Olivier M, Ortiz A, Ortiz LA, Osteikoetxea X, Østergaard O, Ostrowski M, Park J, Pegtel DM, Peinado H, Perut F, Pfaffl MW, Phinney DG, Pieters BC, Pink RC, Pisetsky DS, Pogge von Strandmann E, Polakovicova I, Poon IK, Powell BH, Prada I, Pulliam L, Quesenberry P, Radeghieri A, Raffai RL, Raimondo S, Rak J, Ramirez MI, Raposo G, Rayyan MS, Regev-Rudzki N, Ricklefs FL, Robbins PD, Roberts DD, Rodrigues SC, Rohde E, Rome S, Rouschop KM, Rughetti A, Russell AE, Saá P, Sahoo S, Salas-Huenuleo E, Sánchez C, Saugstad JA, Saul MJ, Schiffelers RM, Schneider R, Schøyen TH, Scott A, Shahaj E, Sharma S, Shatnyeva O, Shekari F, Shelke GV, Shetty AK, Shiba K, Siljander PR, Silva AM, Skowronek A, Snyder OL 2nd, Soares RP, Sódar BW, Soekmadji C, Sotillo J, Stahl PD, Stoorvogel W, Stott SL, Strasser EF, Swift S, Tahara H, Tewari M, Timms K, Tiwari S, Tixeira R, Tkach M, Toh WS, Tomasini R, Torrecilhas AC, Tosar JP, Toxavidis V, Urbanelli L, Vader P, van Balkom BW, van der Grein SG, Van Deun J, van Herwijnen MJ, Van Keuren-Jensen K, van Niel G, van Royen ME, van Wijnen AJ, Vasconcelos MH, Vechetti IJ Jr, Veit TD, Vella LJ, Velot É, Verweij FJ, Vestad B, Viñas JL, Visnovitz T, Vukman KV, Wahlgren J, Watson DC, Wauben MH, Weaver A, Webber JP, Weber V, Wehman AM, Weiss

DJ, Welsh JA, Wendt S, Wheelock AM, Wiener Z, Witte L, Wolfram J, Xagorari A, Xander P, Xu J, Yan X, Yáñez-Mó M, Yin H, Yuana Y, Zappulli V, Zarubova J, Žėkas V, Zhang JY, Zhao Z, Zheng L, Zheutlin AR, Zickler AM, Zimmermann P, Zivkovic AM, Zocco D, Zuba-Surma EK. Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. J Extracell Vesicles. 2018 Nov 23;7(1):1535750. doi: 10.1080/20013078.2018.1535750. eCollection 2018. PubMed PMID: 30637094; PubMed Central PMCID: PMC6322352.

133: Krauss P, Oertel MF, Stieglitz LH. Introduction of a self-holding retractor for optimized abdominal visualization in ventriculoperitoneal shunt surgery: first experiences at a single center. Acta Neurochir (Wien). 2019 Jul;161(7):1361-1365. doi: 10.1007/s00701-018-03794-0. Epub 2019 Jan 11. PubMed PMID: 30635726.

134: Ames CP, Smith JS, Pellisé F, Kelly M, Alanay A, Acaroğlu E, Pérez-Grueso FJS, Kleinstück F, Obeid I, Vila-Casademunt A, Shaffrey CI Jr, Burton D, Lafage V, Schwab F, Shaffrey CI Sr, Bess S, Serra-Burriel M; European Spine Study Group, International Spine Study Group. Artificial Intelligence Based Hierarchical Clustering of Patient Types and Intervention Categories in Adult Spinal Deformity Surgery: Towards a New Classification Scheme that Predicts Quality and Value. Spine (Phila Pa 1976). 2019 Jan 7. doi: 10.1097/BRS.0000000000002974. [Epub ahead of print] PubMed PMID: 30633115.

135: Schwarze M, Block J, Kunz T, Alimusaj M, Heitzmann DWW, Putz C, Dreher T, Wolf SI. The added value of orthotic management in the context of multi-level surgery in children with cerebral palsy. Gait Posture. 2019 Feb;68:525-530. doi: 10.1016/j.gaitpost.2019.01.006. Epub 2019 Jan 6. PubMed PMID: 30623847.

136: Yeates KO, Tang K, Barrowman N, Freedman SB, Gravel J, Gagnon I, Sangha G, Boutis K, Beer D, Craig W, Burns E, Farion KJ, Mikrogianakis A, Barlow K, Dubrovsky AS, Meeuwisse W, Gioia G, Meehan WP 3rd, Beauchamp MH, Kamil Y, Grool AM, Hoshizaki B, Anderson P, Brooks BL, Vassilyadi M, Klassen T, Keightley M, Richer L, DeMatteo C, Osmond MH, Zemek R; Pediatric Emergency Research Canada (PERC) Predicting Persistent Postconcussive Problems in Pediatrics (5P) Concussion Team. Derivation and Initial Validation of Clinical Phenotypes of Children Presenting with Concussion Acutely in the Emergency Department: Latent Class Analysis of a Multi-Center, Prospective Cohort, Observational Study. J Neurotrauma. 2019 Jun;36(11):1758-1767. doi: 10.1089/neu.2018.6009. Epub 2019 Mar 6. PubMed PMID: 30618356.

137: Jilg A, Bechstein P, Saade A, Dick M, Li TX, Tosini G, Rami A, Zemmar A, Stehle JH. Melatonin modulates daytime-dependent synaptic plasticity and learning efficiency. J Pineal Res. 2019 Apr;66(3):e12553. doi: 10.1111/jpi.12553. Epub 2019 Feb 14. PubMed PMID: 30618149; PubMed Central PMCID: PMC6405292.

138: Zimpfer A, Schneider B, Blanck O, Riedel K, Zhivov A, Jonigk D, Erbersdobler A, Jünemann A, Andratschke N, Hildebrandt G, Guthoff RF, Kakkassery V. Pathologic Features of Tumor Activity and Stability in Uveal Melanoma Specimens after Fractionated CyberKnife Radiosurgery. Pathol Oncol Res. 2019 Apr;25(2):731-740. doi: 10.1007/s12253-018-00565-1. Epub 2019 Jan 7. PubMed PMID: 30617758.

139: Galldiks N, Langen KJ, Albert NL, Chamberlain M, Soffietti R, Kim MM, Law I, Le Rhun E, Chang S, Schwarting J, Combs SE, Preusser M, Forsyth P, Pope W, Weller M, Tonn JC. PET imaging in patients with brain metastasis-report of the RANO/PET group. Neuro Oncol. 2019 May 6;21(5):585-595. doi: 10.1093/neuonc/noz003. PubMed PMID: 30615138; PubMed Central PMCID: PMC6502495.

140: Austevoll IM, Hermansen E, Fagerland M, Rekeland F, Solberg T, Storheim K, Brox JI, Lønne G,

Indrekvam K, Aaen J, Grundnes O, Hellum C. Decompression alone versus decompression with instrumental fusion the NORDSTEN degenerative spondylolisthesis trial (NORDSTEN-DS); study protocol for a randomized controlled trial. BMC Musculoskelet Disord. 2019 Jan 5;20(1):7. doi: 10.1186/s12891-018-2384-0. PubMed PMID: 30611229; PubMed Central PMCID: PMC6320633.

141: Losa M, Carta MC, Frontzek K, Krayenbühl N, Wichmann W, Rushing EJ. An Infratentorial Tumor in a 44-Year-Old Female Patient. Brain Pathol. 2019 Jan;29(1):145-146. doi: 10.1111/bpa.12684. PubMed PMID: 30600598.

142: Yiannakas MC, Liechti MD, Budtarad N, Cullinane P, Yang X, Toosy AT, Panicker JN, Gandini Wheeler-Kingshott CAM. Gray vs. White Matter Segmentation of the Conus Medullaris: Reliability and Variability in Healthy Volunteers. J Neuroimaging. 2019 May;29(3):410-417. doi: 10.1111/jon.12591. Epub 2018 Dec 24. PubMed PMID: 30582252.

143: Seoane J, De Mattos-Arruda L, Le Rhun E, Bardelli A, Weller M. Cerebrospinal fluid cell-free tumour DNA as a liquid biopsy for primary brain tumours and central nervous system metastases. Ann Oncol. 2019 Feb 1;30(2):211-218. doi: 10.1093/annonc/mdy544. PubMed PMID: 30576421.

144: Akeret K, Vasella F, Geisseler O, Dannecker N, Ghosh A, Brugger P, Regli L, Stienen MN. Time to be “smart”-Opportunities Arising From Smartphone-Based Behavioral Analysis in Daily Patient Care. Front Behav Neurosci. 2018 Dec 4;12:303. doi: 10.3389/fnbeh.2018.00303. eCollection 2018. PubMed PMID: 30568582; PubMed Central PMCID: PMC6290758.

145: Salatzki J, Liechti MD, Spanudakis E, Gonzales G, Baldwin J, Haslam C, Pakzad M, Panicker JN. Factors influencing return for maintenance treatment with percutaneous tibial nerve stimulation for the management of the overactive bladder. BJU Int. 2019 May;123(5A):E20-E28. doi: 10.1111/bju.14651. Epub 2019 Feb 3. PubMed PMID: 30552801.

146: Bilich T, Nelde A, Bichmann L, Roerden M, Salih HR, Kowalewski DJ, Schuster H, Tsou CC, Marcu A, Neidert MC, Lübke M, Rieth J, Schemionek M, Brümmendorf TH, Vucinic V, Niederwieser D, Bauer J, Märklin M, Peper JK, Klein R, Kohlbacher O, Kanz L, Rammensee HG, Stevanović S, Walz JS. The HLA ligandome landscape of chronic myeloid leukemia delineates novel T-cell epitopes for immunotherapy. Blood. 2019 Feb 7;133(6):550-565. doi: 10.1182/blood-2018-07-866830. Epub 2018 Dec 10. PubMed PMID: 30530751.

147: Abbas M, de Kraker MEA, Aghayev E, Astagneau P, Aupee M, Behnke M, Bull A, Choi HJ, de Greeff SC, Elgohari S, Gastmeier P, Harrison W, Koek MBG, Lamagni T, Limon E, Løwer HL, Lyytikäinen O, Marimuthu K, Marquess J, McCann R, Prantner I, Presterl E, Pujol M, Reilly J, Roberts C, Segagni Lusignani L, Si D, Szilágyi E, Tanguy J, Tempone S, Troillet N, Worth LJ, Pittet D, Harbarth S. Impact of participation in a surgical site infection surveillance network: results from a large international cohort study. J Hosp Infect. 2019 Jul;102(3):267-276. doi: 10.1016/j.jhin.2018.12.003. Epub 2018 Dec 7. PubMed PMID: 30529703.

148: Law I, Albert NL, Arbizu J, Boellaard R, Drzezga A, Galldiks N, la Fougère C, Langen KJ, Lopci E, Lowe V, McConathy J, Quick HH, Sattler B, Schuster DM, Tonn JC, Weller M. Joint EANM/EANO/RANO practice guidelines/SNMMI procedure standards for imaging of gliomas using PET with radiolabelled amino acids and [(18)F]FDG: version 1.0. Eur J Nucl Med Mol Imaging. 2019 Mar;46(3):540-557. doi: 10.1007/s00259-018-4207-9. Epub 2018 Dec 5. PubMed PMID: 30519867; PubMed Central PMCID: PMC6351513.

149: Kogias E, Schmeiser B, Doostkam S, Brandt A, Hammen T, Zentner J, Ramantani G. Multilobar Resections for 3T MRI-Negative Epilepsy: Worth the Trouble? World Neurosurg. 2019 Mar;123:e338-

e347. doi: 10.1016/j.wneu.2018.11.170. Epub 2018 Nov 28. PubMed PMID: 30502474.

150: Hegi ME, Genbrugge E, Gorlia T, Stupp R, Gilbert MR, Chinot OL, Nabors LB, Jones G, Van Criekinge W, Straub J, Weller M. MGMT Promoter Methylation Cutoff with Safety Margin for Selecting Glioblastoma Patients into Trials Omitting Temozolomide: A Pooled Analysis of Four Clinical Trials. Clin Cancer Res. 2019 Mar 15;25(6):1809-1816. doi: 10.1158/1078-0432.CCR-18-3181. Epub 2018 Dec 4. PubMed PMID: 30514777.

151: Hagemann J, Roesner J, Helling S, Jacobi C, Doescher J, Engelbarts M, Kuenzel J, Krauss P, Becker S, Betz CS. Long-term Outcome for Open and Endoscopically Resected Sinonasal Tumors. Otolaryngol Head Neck Surg. 2019 May;160(5):862-869. doi: 10.1177/0194599818815881. Epub 2018 Dec 4. PubMed PMID: 30511889.

152: Mäe MA, Li T, Bertuzzi G, Raschperger E, Vanlandewijck M, He L, Nahar K, Dalheim A, Hofmann JJ, Laviña B, Keller A, Betsholtz C, Genové G. Prolonged systemic hyperglycemia does not cause pericyte loss and permeability at the mouse blood-brain barrier. Sci Rep. 2018 Nov 29;8(1):17462. doi: 10.1038/s41598-018-35576-0. PubMed PMID: 30498224; PubMed Central PMCID: PMC6265246.

153: Schütz A, Murek M, Stieglitz LH, Bernasconi C, Vulcu S, Beck J, Raabe A, Schucht P. ACE-inhibitors: a preventive measure for bone flap resorption after autologous cranioplasty? J Neurosurg. 2018 Nov 1:1-8. doi: 10.3171/2018.6.JNS172605. [Epub ahead of print] PubMed PMID: 30497161.

154: Keller A, Nuvolone M, Abakumova I, Chincisan A, Reimann R, Avar M, Heinzer D, Hornemann S, Wagner J, Kirschenbaum D, Voigt FF, Zhu C, Regli L, Helmchen F, Aguzzi A. Prion pathogenesis is unaltered in a mouse strain with a permeable blood-brain barrier. PLoS Pathog. 2018 Nov 29;14(11):e1007424. doi: 10.1371/journal.ppat.1007424. eCollection 2018 Nov. PubMed PMID: 30496289; PubMed Central PMCID: PMC6264140.

155: Stienen MN, Moser N, Krauss P, Regli L, Sarnthein J. Incidence, depth, and severity of surgical site infections after neurosurgical interventions. Acta Neurochir (Wien). 2019 Jan;161(1):17-24. doi: 10.1007/s00701-018-3745-z. Epub 2018 Nov 27. PubMed PMID: 30483981.

156: Serra C, Sebök M, Widmer L, Neidert MC, Regli L. Clipping of a superior hypophyseal artery aneurysm during endoscopic transnasal removal of a Rathke cleft cyst: a case report. Acta Neurochir (Wien). 2019 Jan;161(1):197-201. doi: 10.1007/s00701-018-3728-0. Epub 2018 Nov 26. PubMed PMID: 30478712.

157: Serra C, Akeret K, Maldaner N, Staartjes VE, Regli L, Baltsavias G, Krayenbühl N. A White Matter Fiber Microdissection Study of the Anterior Perforated Substance and the Basal Forebrain: A Gateway to the Basal Ganglia? Oper Neurosurg (Hagerstown). 2019 Sep 1;17(3):311-320. doi: 10.1093/ons/opy345. PubMed PMID: 30476312.

158: Zattra CM, Zhang DY, Broggi M, Velz J, Vasella F, Seggewiss D, Schiavolin S, Bozinov O, Krayenbühl N, Sarnthein J, Ferroli P, Regli L, Stienen MN. Repeated craniotomies for intracranial tumors: is the risk increased? Pooled analysis of two prospective, institutional registries of complications and outcomes. J Neurooncol. 2019 Mar;142(1):49-57. doi: 10.1007/s11060-018-03058-y. Epub 2018 Nov 24. PubMed PMID: 30474767; PubMed Central PMCID: PMC6399174.

159: Beckmann S, Drent G, Ruppar T, Nikolić N, De Geest S. Pre- and post-transplant factors associated with body weight parameters after liver transplantation - A systematic review and meta-analysis. Transplant Rev (Orlando). 2019 Jan;33(1):39-47. doi: 10.1016/j.trre.2018.10.002. Epub 2018 Oct 12. PubMed PMID: 30472154.

160: Luh C, Feiler S, Frauenknecht K, Meyer S, Lubomirov LT, Neulen A, Thal SC. The Contractile Apparatus Is Essential for the Integrity of the Blood-Brain Barrier After Experimental Subarachnoid Hemorrhage. Transl Stroke Res. 2018 Nov 23. doi: 10.1007/s12975-018-0677-0. [Epub ahead of print] PubMed PMID: 30467816.

161: Staartjes VE, Serra C, Muscas G, Maldaner N, Akeret K, van Niftrik CHB, Fierstra J, Holzmann D, Regli L. Utility of deep neural networks in predicting gross-total resection after transsphenoidal surgery for pituitary neuroendocrine tumor: a pilot study. Neurosurg Focus. 2018 Nov 1;45(5):E12. doi: 10.3171/2018.8.FOCUS18243. PubMed PMID: 30453454.

162: Staartjes VE, de Wispelaere MP, Vandertop WP, Schröder ML. Deep learning-based preoperative predictive analytics for patient-reported outcomes following lumbar discectomy: feasibility of center-specific modeling. Spine J. 2019 May;19(5):853-861. doi: 10.1016/j.spinee.2018.11.009. Epub 2018 Nov 16. PubMed PMID: 30453080.

163: Muroi C, Hugelshofer M, Seehusen F, Keller E. Natural Cerebral Aneurysm and Spontaneous Subarachnoid Hemorrhage in Mammals Other Than Man: Is There a Scope for Comparative Medicine? World Neurosurg. 2019 Feb;122:384-389. doi: 10.1016/j.wneu.2018.11.007. Epub 2018 Nov 15. Review. PubMed PMID: 30447438.

164: Held U, Burgstaller JM, Wertli MM, Pichierri G, Winklhofer S, Brunner F, Porchet F, Farshad M, Steurer J. Prognostic function to estimate the probability of meaningful clinical improvement after surgery - Results of a prospective multicenter observational cohort study on patients with lumbar spinal stenosis. PLoS One. 2018 Nov 8;13(11):e0207126. doi: 10.1371/journal.pone.0207126. eCollection 2018. PubMed PMID: 30408081; PubMed Central PMCID: PMC6224088.

165: Mouliere F, Chandrananda D, Piskorz AM, Moore EK, Morris J, Ahlborn LB, Mair R, Goranova T, Marass F, Heider K, Wan JCM, Supernat A, Hudecova I, Gounaris I, Ros S, Jimenez-Linan M, Garcia-Corbacho J, Patel K, Østrup O, Murphy S, Eldridge MD, Gale D, Stewart GD, Burge J, Cooper WN, van der Heijden MS, Massie CE, Watts C, Corrie P, Pacey S, Brindle KM, Baird RD, Mau-Sørensen M, Parkinson CA, Smith CG, Brenton JD, Rosenfeld N. Enhanced detection of circulating tumor DNA by fragment size analysis. Sci Transl Med. 2018 Nov 7;10(466). pii: eaat4921. doi: 10.1126/scitranslmed.aat4921. PubMed PMID: 30404863; PubMed Central PMCID: PMC6483061.

166: Schaefer T, Ramadoss A, Leu S, Tintignac L, Tostado C, Bink A, Schürch C, Müller J, Schärer J, Moffa G, Demougin P, Moes S, Stippich C, Falbo S, Neddersen H, Bucher H, Frank S, Jenö P, Lengerke C, Ritz MF, Mariani L, Boulay JL. Regulation of glioma cell invasion by 3q26 gene products PIK3CA, SOX2 and OPA1. Brain Pathol. 2019 May;29(3):336-350. doi: 10.1111/bpa.12670. Epub 2018 Dec 21. PubMed PMID: 30403311.

167: Sievers P, Stichel D, Hielscher T, Schrimpf D, Reinhardt A, Wefers AK, Reuss D, Jones DTW, Bewerunge-Hudler M, Hartmann C, Baumgarten P, Wirsching HG, Winther-Kristensen B, Brokinkel B, Ketter R, Idoate Gastearena MA, Lamszus K, Seiz-Rosenhagen M, Mawrin C, Harter PN, Felsberg J, Hänggi D, Herold-Mende C, Berghoff AS, Weller M, Pfister SM, Wick W, Reifenberger G, Preusser M, von Deimling A, Sahm F. Chordoid meningiomas can be sub-stratified into prognostically distinct DNA methylation classes and are enriched for heterozygous deletions of chromosomal arm 2p. Acta Neuropathol. 2018 Dec;136(6):975-978. doi: 10.1007/s00401-018-1924-x. Epub 2018 Oct 31. PubMed PMID: 30382370.

168: Wagner FB, Mignardot JB, Le Goff-Mignardot CG, Demesmaeker R, Komi S, Capogrosso M, Rowald A, Seáñez I, Caban M, Pirondini E, Vat M, McCracken LA, Heimgartner R, Fodor I, Watrin A, Seguin P, Paoles E, Van Den Keybus K, Eberle G, Schurch B, Pralong E, Becce F, Prior J, Buse N, Buschman R,

Neufeld E, Kuster N, Carda S, von Zitzewitz J, Delattre V, Denison T, Lambert H, Minassian K, Bloch J, Courtine G. Targeted neurotechnology restores walking in humans with spinal cord injury. Nature. 2018 Nov;563(7729):65-71. doi: 10.1038/s41586-018-0649-2. Epub 2018 Oct 31. PubMed PMID: 30382197.

169: Maillard L, Ramantani G. Epilepsy surgery for polymicrogyria: a challenge to be undertaken. Epileptic Disord. 2018 Oct 1;20(5):319-338. doi: 10.1684/epd.2018.1004. Review. PubMed PMID: 30378553.

170: Krauss P, Oertel MF. Commentary: Implantation of a Thoracic Spinal Cord Stimulator Paddle Electrode and Generator Under General Anesthesia With Intraoperative Neuromonitoring: 2-Dimensional Operative Video. Oper Neurosurg (Hagerstown). 2019 Jun 1;16(6):E170-E171. doi: 10.1093/ons/opy306. PubMed PMID: 30365018.

171: Velz J, Stienen MN, Neidert MC, Yang Y, Regli L, Bozinov O. Routinely Performed Serial Follow-Up Imaging in Asymptomatic Patients With Multiple Cerebral Cavernous Malformations Has No Influence on Surgical Decision Making. Front Neurol. 2018 Oct 11;9:848. doi: 10.3389/fneur.2018.00848. eCollection 2018. PubMed PMID: 30364312; PubMed Central PMCID: PMC6193091.

172: Chowdhury T, Zeiler FA, Singh GP, Hailu A, Loewen H, Schaller B, Cappellani RB, West M. The Role of Intraoperative MRI in Awake Neurosurgical Procedures: A Systematic Review. Front Oncol. 2018 Oct 10;8:434. doi: 10.3389/fonc.2018.00434. eCollection 2018. PubMed PMID: 30364103; PubMed Central PMCID: PMC6191486.

173: Lee DD, Leão R, Komosa M, Gallo M, Zhang CH, Lipman T, Remke M, Heidari A, Nunes NM, Apolónio JD, Price AJ, De Mello RA, Dias JS, Huntsman D, Hermanns T, Wild PJ, Vanner R, Zadeh G, Karamchandani J, Das S, Taylor MD, Hawkins CE, Wasserman JD, Figueiredo A, Hamilton RJ, Minden MD, Wani K, Diplas B, Yan H, Aldape K, Akbari MR, Danesh A, Pugh TJ, Dirks PB, Castelo-Branco P, Tabori U. DNA hypermethylation within TERT promoter upregulates TERT expression in cancer. J Clin Invest. 2019 Jan 2;129(1):223-229. doi: 10.1172/JCI121303. Epub 2018 Dec 3. Erratum in: J Clin Invest. 2019 Apr 1;129(4):1801. PubMed PMID: 30358567; PubMed Central PMCID: PMC6307937.

174: Faraj SSA, Boselie TFM, Vila-Casademunt A, de Kleuver M, Holewijn RM, Obeid I, Acaroglu E, Alanay A, Kleinstück F, Pérez-Grueso FS, Pellisé F; European Spine Study Group. Radiographic Axial Malalignment is Associated With Pretreatment Patient-Reported Health-Related Quality of Life Measures in Adult Degenerative Scoliosis: Implementation of a Novel Radiographic Software Tool. Spine Deform. 2018 Nov - Dec;6(6):745-752. doi: 10.1016/j.jspd.2018.03.011. PubMed PMID: 30348354.

175: Esposito G, Dias SF, Burkhardt JK, Fierstra J, Serra C, Bozinov O, Regli L. Selection Strategy for Optimal Keyhole Approaches for Middle Cerebral Artery Aneurysms: Lateral Supraorbital Versus Minipterional Craniotomy. World Neurosurg. 2019 Feb;122:e349-e357. doi: 10.1016/j.wneu.2018.09.238. Epub 2018 Oct 13. PubMed PMID: 30326308.

176: Schmidt BR, Moos RM, Könü-Leblebicioglu D, Bischoff-Ferrari HA, Simmen HP, Pape HC, Neuhaus V. Higher age is a major driver of in-hospital adverse events independent of comorbid diseases among patients with isolated mild traumatic brain injury. Eur J Trauma Emerg Surg. 2019 Apr;45(2):191-198. doi: 10.1007/s00068-018-1029-1. Epub 2018 Oct 15. PubMed PMID: 30324238.

177: Ellenbogen JR, Tuura R, Ashkan K. Localisation of DBS Electrodes Post-Implantation, to CT or MRI? Which Is the Best Option? Stereotact Funct Neurosurg. 2018;96(5):347-348. doi: 10.1159/000493576. Epub 2018 Oct 10. PubMed PMID: 30304735.

178: Joswig H, Neff A, Ruppert C, Hildebrandt G, Stienen MN. Repeat epidural steroid injections for radicular pain due to lumbar or cervical disc herniation: what happens after ‘salvage treatment’?. Bone Joint J. 2018 Oct;100-B(10):1364-1371. doi: 10.1302/0301-620X.100B10.BJJ-2018-0461.R1. PubMed PMID: 30295524.

179: Stump R, Dobrev I, Krayenbühl N, Probst R, Röösli C. In-vivo assessment of osseous versus non-osseous transmission pathways of vibratory stimuli applied to the bone and the dura in humans. Hear Res. 2018 Dec;370:40-52. doi: 10.1016/j.heares.2018.09.007. Epub 2018 Sep 28. PubMed PMID: 30292958.

180: Errede M, Mangieri D, Longo G, Girolamo F, de Trizio I, Vimercati A, Serio G, Frei K, Perris R, Virgintino D. Tunneling nanotubes evoke pericyte/endothelial communication during normal and tumoral angiogenesis. Fluids Barriers CNS. 2018 Oct 5;15(1):28. doi: 10.1186/s12987-018-0114-5. PubMed PMID: 30290761; PubMed Central PMCID: PMC6173884.

181: Thurston RC, Chang Y, Matthews KA, von Känel R, Koenen K. Association of Sexual Harassment and Sexual Assault With Midlife Women's Mental and Physical Health. JAMA Intern Med. 2019 Jan 1;179(1):48-53. doi: 10.1001/jamainternmed.2018.4886. Erratum in: JAMA Intern Med. 2019 Jan 1;179(1):127. PubMed PMID: 30285071; PubMed Central PMCID: PMC6322939.

182: Serra C, Staartjes VE, Maldaner N, Muscas G, Akeret K, Holzmann D, Soyka MB, Schmid C, Regli L. Predicting extent of resection in transsphenoidal surgery for pituitary neuroendocrine tumor. Acta Neurochir (Wien). 2018 Nov;160(11):2255-2262. doi: 10.1007/s00701-018-3690-x. Epub 2018 Sep 29. PubMed PMID: 30267209.

183: Brat DJ, Aldape K, Colman H, Holland EC, Louis DN, Jenkins RB, Kleinschmidt-DeMasters BK, Perry A, Reifenberger G, Stupp R, von Deimling A, Weller M. cIMPACT-NOW update 3: recommended diagnostic criteria for “Diffuse astrocytic glioma, IDH-wildtype, with molecular features of glioblastoma, WHO grade IV”. Acta Neuropathol. 2018 Nov;136(5):805-810. doi: 10.1007/s00401-018-1913-0. Epub 2018 Sep 26. PubMed PMID: 30259105; PubMed Central PMCID: PMC6204285.

184: Studerus-Germann AM, Gautschi OP, Bontempi P, Thiran JP, Daducci A, Romascano D, von Ow D, Hildebrandt G, von Hessling A, Engel DC. Central nervous system microbleeds in the acute phase are associated with structural integrity by DTI one year after mild traumatic brain injury: A longitudinal study. Neurol Neurochir Pol. 2018 Nov - Dec;52(6):710-719. doi: 10.1016/j.pjnns.2018.08.011. Epub 2018 Sep 13. PubMed PMID: 30245171.

185: Staartjes VE, Stricker S, Muscas G, Maldaner N, Holzmann D, Burkhardt JK, Seifert B, Schmid C, Serra C, Regli L. Intraoperative unfolding and postoperative pruning of the pituitary gland after transsphenoidal surgery for pituitary adenoma: A volumetric and endocrinological evaluation. Endocrine. 2019 Feb;63(2):231-239. doi: 10.1007/s12020-018-1758-2. Epub 2018 Sep 21. PubMed PMID: 30242602.

186: Tudor KI, Eames S, Haslam C, Chataway J, Liechti MD, Panicker JN. Identifying barriers to help-seeking for sexual dysfunction in multiple sclerosis. J Neurol. 2018 Dec;265(12):2789-2802. doi: 10.1007/s00415-018-9064-8. Epub 2018 Sep 19. PubMed PMID: 30232609.

187: Ma X, Yang Y, Zhou Y, Jia W. Endovascular treatment of ruptured intracranial aneurysms in elderly patients: clinical features and treatment outcome. Neurosurg Rev. 2019 Sep;42(3):745-751. doi: 10.1007/s10143-018-1031-4. Epub 2018 Sep 17. PubMed PMID: 30225577.

188: Scheitz JF, Gensicke H, Zinkstok SM, Curtze S, Arnold M, Hametner C, Pezzini A, Turc G, Zini A,

Padjen V, Wegener S, Nordanstig A, Kellert L, Kägi G, Bejot Y, Michel P, Leys D, Nolte CH, Nederkoorn PJ, Engelter ST; TRISP collaboration. Cohort profile: Thrombolysis in Ischemic Stroke Patients (TRISP): a multicentre research collaboration. BMJ Open. 2018 Sep 17;8(9):e023265. doi: 10.1136/bmjopen-2018-023265. PubMed PMID: 30224398; PubMed Central PMCID: PMC6150152.

189: McKinley TO, Lei Z, Kalbas Y, White FA, Shi Z, Wu F, Xu ZC, Rodgers RB. Blood purification by nonselective hemoadsorption prevents death after traumatic brain injury and hemorrhagic shock in rats. J Trauma Acute Care Surg. 2018 Dec;85(6):1063-1071. doi: 10.1097/TA.0000000000002069. PubMed PMID: 30211852.

190: Heye P, Moehrlen U, Mazzone L, Weil R, Altermatt S, Wille DA, Scheer I, Meuli M, Horst M. Inclusion Cysts after Fetal Spina Bifida Repair: A Third Hit? Fetal Diagn Ther. 2019;46(1):38-44. doi: 10.1159/000491877. Epub 2018 Sep 10. PubMed PMID: 30199879.

191: Wirsching HG, Richter JK, Sahm F, Morel C, Krayenbuehl N, Rushing EJ, von Deimling A, Valavanis A, Weller M. Post-operative cardiovascular complications and time to recurrence in meningioma patients treated with versus without pre-operative embolization: a retrospective cohort study of 741 patients. J Neurooncol. 2018 Dec;140(3):659-667. doi: 10.1007/s11060-018-2996-0. Epub 2018 Sep 8. PubMed PMID: 30196368.

192: Krauss P, Marahori NA, Oertel MF, Barth F, Stieglitz LH. Better Hemodynamics and Less Antihypertensive Medication: Comparison of Scalp Block and Local Infiltration Anesthesia for Skull-Pin Placement in Awake Deep Brain Stimulation Surgery. World Neurosurg. 2018 Dec;120:e991-e999. doi: 10.1016/j.wneu.2018.08.210. Epub 2018 Sep 7. PubMed PMID: 30196173.

193: Stichel D, Ebrahimi A, Reuss D, Schrimpf D, Ono T, Shirahata M, Reifenberger G, Weller M, Hänggi D, Wick W, Herold-Mende C, Westphal M, Brandner S, Pfister SM, Capper D, Sahm F, von Deimling A. Distribution of EGFR amplification, combined chromosome 7 gain and chromosome 10 loss, and TERT promoter mutation in brain tumors and their potential for the reclassification of IDHwt astrocytoma to glioblastoma. Acta Neuropathol. 2018 Nov;136(5):793-803. doi: 10.1007/s00401-018-1905-0. Epub 2018 Sep 5. PubMed PMID: 30187121.

194: Sebök M, van Niftrik CHB, Piccirelli M, Bozinov O, Wegener S, Esposito G, Pangalu A, Valavanis A, Buck A, Luft AR, Regli L, Fierstra J. BOLD cerebrovascular reactivity as a novel marker for crossed cerebellar diaschisis. Neurology. 2018 Oct 2;91(14):e1328-e1337. doi: 10.1212/WNL.0000000000006287. Epub 2018 Sep 5. PubMed PMID: 30185447.

195: Zilli T, Scorsetti M, Zwahlen D, Franzese C, Förster R, Giaj-Levra N, Koutsouvelis N, Bertaut A, Zimmermann M, D'Agostino GR, Alongi F, Guckenberger M, Miralbell R. ONE SHOT - single shot radiotherapy for localized prostate cancer: study protocol of a single arm, multicenter phase I/II trial. Radiat Oncol. 2018 Sep 4;13(1):166. doi: 10.1186/s13014-018-1112-0. Erratum in: Radiat Oncol. 2018 Sep 19;13(1):182. PubMed PMID: 30180867; PubMed Central PMCID: PMC6123974.

196: Stam B, Kwint M, Guckenberger M, Mantel F, Hope A, Giuliani M, Werner-Wasik M, Grills I, Sonke JJ, Belderbos J. Subgroup Survival Analysis in Stage I-II NSCLC Patients With a Central Tumor Partly Treated With Risk-Adapted SBRT. Int J Radiat Oncol Biol Phys. 2019 Jan 1;103(1):132-141. doi: 10.1016/j.ijrobp.2018.08.040. Epub 2018 Aug 31. PubMed PMID: 30176275.

197: Akeret K, Bellut D, Huppertz HJ, Ramantani G, König K, Serra C, Regli L, Krayenbühl N. Ultrasonographic features of focal cortical dysplasia and their relevance for epilepsy surgery. Neurosurg Focus. 2018 Sep;45(3):E5. doi: 10.3171/2018.6.FOCUS18221. PubMed PMID: 30173618.

198: Esposito G, Dias S, Burkhardt JK, Bozinov O, Regli L. Role of Indocyanine Green Videoangiography

in Identification of Donor and Recipient Arteries in Cerebral Bypass Surgery. Acta Neurochir Suppl. 2018;129:85-89. doi: 10.1007/978-3-319-73739-3_12. PubMed PMID: 30171318.

199: Esposito G, Sebök M, Amin-Hanjani S, Regli L. Cerebral Bypass Surgery: Level of Evidence and Grade of Recommendation. Acta Neurochir Suppl. 2018;129:73-77. doi: 10.1007/978-3-319-73739-3_10. PubMed PMID: 30171316.

200: Sprave T, Verma V, Förster R, Schlampp I, Hees K, Bruckner T, Bostel T, El Shafie RA, Welzel T, Nicolay NH, Debus J, Rief H. Local response and pathologic fractures following stereotactic body radiotherapy versus three-dimensional conformal radiotherapy for spinal metastases - a randomized controlled trial. BMC Cancer. 2018 Aug 31;18(1):859. doi: 10.1186/s12885-018-4777-8. PubMed PMID: 30170568; PubMed Central PMCID: PMC6119304.

201: Hugelshofer M, Sikorski CM, Seule M, Deuel J, Muroi CI, Seboek M, Akeret K, Buzzi R, Regli L, Schaer DJ, Keller E. Cell-Free Oxyhemoglobin in Cerebrospinal Fluid After Aneurysmal Subarachnoid Hemorrhage: Biomarker and Potential Therapeutic Target. World Neurosurg. 2018 Dec;120:e660-e666. doi: 10.1016/j.wneu.2018.08.141. Epub 2018 Aug 27. PubMed PMID: 30165217.

202: Finkenstaedt T, Siriwanarangsun P, Achar S, Carl M, Finkenstaedt S, Abeydeera N, Chung CB, Bae WC. Ultrashort Time-to-Echo Magnetic Resonance Imaging at 3 T for the Detection of Spondylolysis in Cadaveric Spines: Comparison With CT. Invest Radiol. 2019 Jan;54(1):32-38. doi: 10.1097/RLI.0000000000000506. PubMed PMID: 30157099; PubMed Central PMCID: PMC6269191.

203: Vasella F, Akeret K, Smoll NR, Germans MR, Jehli E, Bozinov O, Regli L, Stienen MN; CORRECT SCAR study group. Improving the aesthetic outcome with burr hole cover placement in chronic subdural hematoma evacuation-a retrospective pilot study. Acta Neurochir (Wien). 2018 Nov;160(11):2129-2135. doi: 10.1007/s00701-018-3659-9. Epub 2018 Aug 28. PubMed PMID: 30155645; PubMed Central PMCID: PMC6209004.

204: Liu H, He Z, April SL, Trefny MP, Rougier JS, Salemi S, Olariu R, Widmer HR, Simon HU. Biochemical re-programming of human dermal stem cells to neurons by increasing mitochondrial membrane potential. Cell Death Differ. 2019 Jun;26(6):1048-1061. doi: 10.1038/s41418-018-0182-8. Epub 2018 Aug 28. PubMed PMID: 30154448.

Sebök M, Keller E, van Niftrik CHB, Regli L, Germans MR. Management of aneurysmal subarachnoid hemorrhage patients with antiplatelet use before the initial hemorrhage: an international survey. World Neurosurg. 2018 Aug 24. pii: S1878-8750(18)31877-1. doi: 10.1016/j.wneu.2018.08.094. [Epub ahead of print] PubMed PMID: 30149168.

2: From the American Association of Neurological Surgeons (AANS), American Society of Neuroradiology (ASNR), Cardiovascular and Interventional Radiology Society of Europe (CIRSE), Canadian Interventional Radiology Association (CIRA), Congress of Neurological Surgeons (CNS), European Society of Minimally Invasive Neurological Therapy (ESMINT), European Society of Neuroradiology (ESNR), European Stroke Organization (ESO), Society for Cardiovascular Angiography and Interventions (SCAI), Society of Interventional Radiology (SIR), Society of NeuroInterventional Surgery (SNIS), and World Stroke Organization (WSO), Sacks D, Baxter B, Campbell BCV, Carpenter JS, Cognard C, Dippel D, Eesa M, Fischer U, Hausegger K, Hirsch JA, Shazam Hussain M, Jansen O, Jayaraman MV, Khalessi AA, Kluck BW, Lavine S, Meyers PM, Ramee S, Rüfenacht DA, Schirmer CM, Vorwerk D. Multisociety Consensus Quality Improvement Revised Consensus Statement for Endovascular Therapy of Acute Ischemic Stroke. Int J Stroke. 2018 Aug;13(6):612-632. doi: 10.1177/1747493018778713. Epub 2018 May 22. PubMed PMID: 29786478.

3: Stienen MN, Fung C, Bijlenga P, Zumofen DW, Maduri R, Robert T, Seule MA, Marbacher S, Geisseler O, Brugger P, Gutbrod K, Chicherio C, Monsch AU, Beaud V, Rossi S, Früh S, Schmid N, Smoll NR, Keller E, Regli L; MoCA-DCI study group . Measuring the Impact of Delayed Cerebral Ischemia on Neuropsychological Outcome After Aneurysmal Subarachnoid Hemorrhage-Protocol of a Swiss Nationwide Observational Study (MoCA-DCI Study). Neurosurgery. 2018 May 11. doi: 10.1093/neuros/nyy155. [Epub ahead of print] PubMed PMID: 29762759.

4: Bernhardt J, Zorowitz RD, Becker KJ, Keller E, Saposnik G, Strbian D, Dichgans M, Woo D, Reeves M, Thrift A, Kidwell CS, Olivot JM, Goyal M, Pierot L, Bennett DA, Howard G, Ford GA, Goldstein LB, Planas AM, Yenari MA, Greenberg SM, Pantoni L, Amin-Hanjani S, Tymianski M. Advances in Stroke 2017. Stroke. 2018 May;49(5):e174-e199. doi: 10.1161/STROKEAHA.118.021380. Epub 2018 Apr 18. Review. PubMed PMID: 29669874.

5: Mannion AF, Impellizzeri FM, Leunig M, Jeszenszy D, Becker HJ, Haschtmann D, Preiss S, Fekete TF. EUROSPINE 2017 FULL PAPER AWARD: Time to remove our rose-tinted spectacles: a candid appraisal of the relative success of surgery in over 4500 patients with degenerative disorders of the lumbar spine, hip or knee. Eur Spine J. 2018 Apr;27(4):778-788. doi: 10.1007/s00586-018-5469-4. Epub 2018 Feb 19. PubMed PMID: 29460013.

6: Delaunay T, Violland M, Boisgerault N, Dutoit S, Vignard V, Münz C, Gannage M, Dréno B, Vaivode K, Pjanova D, Labarrière N, Wang Y, Chiocca EA, Boeuf FL, Bell JC, Erbs P, Tangy F, Grégoire M, Fonteneau JF. Oncolytic viruses sensitize human tumor cells for NY-ESO-1 tumor antigen recognition by CD4+ effector T cells. Oncoimmunology. 2017 Dec 26;7(3):e1407897. doi: 10.1080/2162402X.2017.1407897. eCollection 2018. PubMed PMID: 29399408; PubMed Central PMCID: PMC5790392.

7: Kotecha D, Breithardt G, Camm AJ, Lip GYH, Schotten U, Ahlsson A, Arnar D, Atar D, Auricchio A, Bax J, Benussi S, Blomstrom-Lundqvist C, Borggrefe M, Boriani G, Brandes A, Calkins H, Casadei B, Castellá M, Chua W, Crijns H, Dobrev D, Fabritz L, Feuring M, Freedman B, Gerth A, Goette A, Guasch E, Haase D, Hatem S, Haeusler KG, Heidbuchel H, Hendriks J, Hunter C, Kääb S, Kespohl S, Landmesser U, Lane DA, Lewalter T, Mont L, Nabauer M, Nielsen JC, Oeff M, Oldgren J, Oto A, Pison L, Potpara T, Ravens U, Richard-Lordereau I, Rienstra M, Savelieva I, Schnabel R, Sinner MF, Sommer P, Themistoclakis S, Van Gelder IC, Vardas PE, Verma A, Wakili R, Weber E, Werring D, Willems S, Ziegler A, Hindricks G, Kirchhof P. Integrating new approaches to atrial fibrillation management: the 6th AFNET/EHRA Consensus Conference. Europace. 2018 Mar 1;20(3):395-407. doi: 10.1093/europace/eux318. PubMed PMID: 29300976.

8: Nguyen TK, Senan S, Bradley JD, Franks K, Giuliani M, Guckenberger M, Landis M, Loo BW Jr, Louie AV, Onishi H, Schmidt H, Timmerman R, Videtic GMM, Palma DA. Optimal imaging surveillance after stereotactic ablative radiation therapy for early-stage non-small cell lung cancer: Findings of an International Delphi Consensus Study. Pract Radiat Oncol. 2018 Mar - Apr;8(2):e71-e78. doi: 10.1016/j.prro.2017.10.008. Epub 2017 Dec 30. PubMed PMID: 29291965.

9: Epprecht L, Messerli M, Samuel R, Seule M, Weber J, Fournier JY, Surbeck W. Sexual Dysfunction After Good-Grade Aneurysmal Subarachnoid Hemorrhage. World Neurosurg. 2018 Mar;111:e449-e453. doi: 10.1016/j.wneu.2017.12.091. Epub 2017 Dec 26. PubMed PMID: 29288108.

10: Hertler B, Hosp JA, Blanco MB, Luft AR. Substance P signalling in primary motor cortex facilitates motor learning in rats. PLoS One. 2017 Dec 27;12(12):e0189812. doi: 10.1371/journal.pone.0189812. eCollection 2017. PubMed PMID: 29281692; PubMed Central PMCID: PMC5744944.

11: Schreglmann SR, Krauss JK, Chang JW, Martin E, Werner B, Bauer R, Hägele-Link S, Bhatia KP, Kägi

G. Functional lesional neurosurgery for tremor: back to the future? J Neurol Neurosurg Psychiatry. 2018 Jul;89(7):727-735. doi: 10.1136/jnnp-2017-316301. Epub 2017 Dec 21. Review. PubMed PMID: 29269505.

12: Stahel PF, Smith WR, Moore EE, Mehler PS, Weckbach S, Kim FJ, Butler N, Pape HC, Clarke TJ, Makary MA, Clavien PA. The 10(th) anniversary of patient safety in surgery. Patient Saf Surg. 2017 Dec 14;11:27. doi: 10.1186/s13037-017-0145-x. eCollection 2017. PubMed PMID: 29259657; PubMed Central PMCID: PMC5731067.

13: Roethlisberger M, Achermann R, Bawarjan S, Stienen MN, Fung C, D'Alonzo D, Maldaner N, Ferrari A, Corniola MV, Schöni D, Valsecchi D, Maduri R, Seule MA, Burkhardt JK, Marbacher S, Bijlenga P, Blackham KA, Bucher HC, Mariani L, Guzman R, Zumofen DW; Swiss SOS Study Group. Predictors of Occurrence and Anatomic Distribution of Multiple Aneurysms in Patients with Aneurysmal Subarachnoid Hemorrhage. World Neurosurg. 2018 Mar;111:e199-e205. doi: 10.1016/j.wneu.2017.12.046. Epub 2017 Dec 16. PubMed PMID: 29258940.

14: Stienen MN, Joswig H, Chau I, Neidert MC, Bellut D, Wälchli T, Schaller K, Gautschi OP. Efficacy of intraoperative epidural triamcinolone application in lumbar microdiscectomy: a matched-control study. J Neurosurg Spine. 2018 Mar;28(3):291-299. doi: 10.3171/2017.6.SPINE161372. Epub 2017 Dec 15. PubMed PMID: 29243999.

15: Le Rhun E, Gorlia T. Farewell to monomodality treatment in patients with WHO lower grade glioma? Eur J Cancer. 2018 Jan;88:109-114. doi: 10.1016/j.ejca.2017.10.019. Epub 2017 Nov 24. PubMed PMID: 29239741.

16: Paydar S, Khalili H, Sabetian G, Dalfardi B, Bolandparvaz S, Niakan MH, Abbasi H, Spahn DR. Comparison of the impact of applications of Targeted Transfusion Protocol and Massive Transfusion Protocol in trauma patients. Korean J Anesthesiol. 2017 Dec;70(6):626-632. doi: 10.4097/kjae.2017.70.6.626. Epub 2017 Jul 13. PubMed PMID: 29225746; PubMed Central PMCID: PMC5716821.

17: Maldaner N, Burkhardt JK, Stienen MN, Goldberg J, Bervini D, Bijlenga P, Croci D, Zumofen D, D'Alonzo D, Marbacher S, Maduri R, Daniel RT, Serra C, Esposito G, Neidert MC, Bozinov O, Regli L. Decision-making and neurosurgeons' agreement in the management of aneurysmal subarachnoid haemorrhage based on computed tomography angiography. Acta Neurochir (Wien). 2018 Feb;160(2):253-260. doi: 10.1007/s00701-017-3415-6. Epub 2017 Dec 7. PubMed PMID: 29214402.

18: Machi P, Ouared R, Brina O, Bouillot P, Yilmaz H, Vargas MI, Gondar R, Bijlenga P, Lovblad KO, Kulcsár Z. Hemodynamics of Focal Versus Global Growth of Small Cerebral Aneurysms. Clin Neuroradiol. 2017 Dec 5. doi: 10.1007/s00062-017-0640-6. [Epub ahead of print] PubMed PMID: 29209882.

19: Weller M, Butowski N, Tran DD, Recht LD, Lim M, Hirte H, Ashby L, Mechtler L, Goldlust SA, Iwamoto F, Drappatz J, O'Rourke DM, Wong M, Hamilton MG, Finocchiaro G, Perry J, Wick W, Green J, He Y, Turner CD, Yellin MJ, Keler T, Davis TA, Stupp R, Sampson JH. Go, no-go decision making for phase 3 clinical trials: ACT IV revisited - Authors' reply. Lancet Oncol. 2017 Dec;18(12):e709-e710. doi: 10.1016/S1470-2045(17)30856-2. PubMed PMID: 29208433.

20: Krugliakova E, Klucharev V, Fedele T, Gorin A, Kuznetsova A, Shestakova A. Correlation of cue-locked FRN and feedback-locked FRN in the auditory monetary incentive delay task. Exp Brain Res. 2018 Jan;236(1):141-151. doi: 10.1007/s00221-017-5113-2. Epub 2017 Dec 1. PubMed PMID: 29196772.

21: Yilgor C, Sogunmez N, Yavuz Y, Abul K, Boissiére L, Haddad S, Obeid I, Kleinstück F, Sánchez Pérez-Grueso FJ, Acaroğlu E, Mannion AF, Pellise F, Alanay A; European Spine Study Group. Relative lumbar lordosis and lordosis distribution index: individualized pelvic incidence-based proportional parameters that quantify lumbar lordosis more precisely than the concept of pelvic incidence minus lumbar lordosis. Neurosurg Focus. 2017 Dec;43(6):E5. doi: 10.3171/2017.8.FOCUS17498. PubMed PMID: 29191103.

22: Finkenstaedt T, Del Grande F, Bolog N, Ulrich N, Tok S, Kolokythas O, Steurer J, Andreisek G, Winklhofer S; LSOS Study Group. Modic Type 1 Changes: Detection Performance of Fat-Suppressed Fluid-Sensitive MRI Sequences. Rofo. 2018 Feb;190(2):152-160. doi: 10.1055/s-0043-118130. Epub 2017 Nov 27. PubMed PMID: 29179238.

23: Vaas M, Deistung A, Reichenbach JR, Keller A, Kipar A, Klohs J. Vascular and Tissue Changes of Magnetic Susceptibility in the Mouse Brain After Transient Cerebral Ischemia. Transl Stroke Res. 2018 Aug;9(4):426-435. doi: 10.1007/s12975-017-0591-x. Epub 2017 Nov 25. PubMed PMID: 29177950; PubMed Central PMCID: PMC6061250.

24: Schneider H, Lohmann B, Wirsching HG, Hasenbach K, Rushing EJ, Frei K, Pruschy M, Tabatabai G, Weller M. Age-associated and therapy-induced alterations in the cellular microenvironment of experimental gliomas. Oncotarget. 2017 Aug 3;8(50):87124-87135. doi: 10.18632/oncotarget.19894. eCollection 2017 Oct 20. PubMed PMID: 29152068; PubMed Central PMCID: PMC5675620.

25: Tinkhauser G, Pogosyan A, Debove I, Nowacki A, Shah SA, Seidel K, Tan H, Brittain JS, Petermann K, di Biase L, Oertel M, Pollo C, Brown P, Schuepbach M. Directional local field potentials: A tool to optimize deep brain stimulation. Mov Disord. 2018 Jan;33(1):159-164. doi: 10.1002/mds.27215. Epub 2017 Nov 18. PubMed PMID: 29150884; PubMed Central PMCID: PMC5768242.

26: Stienen MN, Serra C, Stieglitz LH, Krayenbühl N, Bozinov O, Regli L. UniversitätsSpital Zürich: 80 years of neurosurgical patient care in Switzerland. Acta Neurochir (Wien). 2018 Jan;160(1):3-22. doi: 10.1007/s00701-017-3357-z. Epub 2017 Nov 13. PubMed PMID: 29134341; PubMed Central PMCID: PMC5735218.

27: Staartjes VE, Schröder ML. Effectiveness of a Decision-Making Protocol for the Surgical Treatment of Lumbar Stenosis with Grade 1 Degenerative Spondylolisthesis. World Neurosurg. 2018 Feb;110:e355-e361. doi: 10.1016/j.wneu.2017.11.001. Epub 2017 Nov 10. PubMed PMID: 29133000.

28: Henzen D, Schmidhalter D, Zanella CC, Volken W, Mackeprang PH, Malthaner M, Fix MK, Manser P. Evaluation of clinically applied treatment beams with respect to bunker shielding parameters for a Cyberknife M6. J Appl Clin Med Phys. 2018 Jan;19(1):243-249. doi: 10.1002/acm2.12215. Epub 2017 Nov 10. PubMed PMID: 29125234; PubMed Central PMCID: PMC5768034.

29: Karava K, Ehrbar S, Riesterer O, Roesch J, Glatz S, Klöck S, Guckenberger M, Tanadini-Lang S. Potential dosimetric benefits of adaptive tumor tracking over the internal target volume concept for stereotactic body radiation therapy of pancreatic cancer. Radiat Oncol. 2017 Nov 9;12(1):175. doi: 10.1186/s13014-017-0906-9. PubMed PMID: 29121945; PubMed Central PMCID: PMC5680781.

30: Maldaner N, Sarnthein J, Bozinov O, Regli L, Neidert MC. Neurosurgery in Octogenarians: A Prospective Study of Perioperative Morbidity, Mortality, and Complications in Elderly Patients. World Neurosurg. 2018 Feb;110:e287-e295. doi: 10.1016/j.wneu.2017.10.154. Epub 2017 Nov 4. PubMed PMID: 29113899.

31: Schenker P, Stieglitz LH, Sick B, Stienen MN, Regli L, Sarnthein J. Patients with a Normal Pressure Hydrocephalus Shunt Have Fewer Complications than Do Patients with Other Shunts. World

Neurosurg. 2018 Feb;110:e249-e257. doi: 10.1016/j.wneu.2017.10.151. Epub 2017 Nov 27. PubMed PMID: 29109063.

32: Le Rhun E, Bertrand N, Dumont A, Tresch E, Le Deley MC, Mailliez A, Preusser M, Weller M, Revillion F, Bonneterre J. Identification of single nucleotide polymorphisms of the PI3K-AKT-mTOR pathway as a risk factor of central nervous system metastasis in metastatic breast cancer. Eur J Cancer. 2017 Dec;87:189-198. doi: 10.1016/j.ejca.2017.10.006. Epub 2017 Nov 2. PubMed PMID: 29103666.

33: Serrano Sponton LE, Soria GJ, Dubroqua S, Singer P, Feldon J, Gargiulo PA, Yee BK. Negative transfer effects between reference memory and working memory training in the water maze in C57BL/6 mice. Behav Brain Res. 2018 Feb 26;339:286-296. doi: 10.1016/j.bbr.2017.10.033. Epub 2017 Nov 2. PubMed PMID: 29102592.

34: McCrory P, Meeuwisse WH, Dvořák J, Echemendia RJ, Engebretsen L, Feddermann-Demont N, McCrea M, Makdissi M, Patricios J, Schneider KJ, Sills AK. 5th International Conference on Concussion in Sport (Berlin). Br J Sports Med. 2017 Jun;51(11):837. doi: 10.1136/bjsports-2017-097878. PubMed PMID: 29098980.

35: Eördögh M, Briner HR, Simmen D, Jones N, Reisch R. Endoscopic unilateral transethmoid-paraseptal approach to the central skull base. Laryngoscope Investig Otolaryngol. 2017 May 28;2(5):281-287. doi: 10.1002/lio2.82. eCollection 2017 Oct. PubMed PMID: 29094072; PubMed Central PMCID: PMC5655550.

36: Meuwly C, Chowdhury T, Sandu N, Golanov E, Erne P, Rosemann T, Schaller B. Definition and Diagnosis of the Trigeminocardiac Reflex: A Grounded Theory Approach for an Update. Front Neurol. 2017 Oct 9;8:533. doi: 10.3389/fneur.2017.00533. eCollection 2017. Review. PubMed PMID: 29085328; PubMed Central PMCID: PMC5649131.

37: Fekete TF, Loibl M, Jeszenszky D, Haschtmann D, Banczerowski P, Kleinstück FS, Becker HJ, Porchet F, Mannion AF. How does patient-rated outcome change over time following the surgical treatment of degenerative disorders of the thoracolumbar spine? Eur Spine J. 2018 Mar;27(3):700-708. doi: 10.1007/s00586-017-5358-2. Epub 2017 Oct 27. PubMed PMID: 29080002.

38: Steelant B, Seys SF, Van Gerven L, Van Woensel M, Farré R, Wawrzyniak P, Kortekaas Krohn I, Bullens DM, Talavera K, Raap U, Boon L, Akdis CA, Boeckxstaens G, Ceuppens JL, Hellings PW. Histamine and T helper cytokine-driven epithelial barrier dysfunction in allergic rhinitis. J Allergy Clin Immunol. 2018 Mar;141(3):951-963.e8. doi: 10.1016/j.jaci.2017.08.039. Epub 2017 Oct 23. PubMed PMID: 29074456.

39: Blumcke I, Spreafico R, Haaker G, Coras R, Kobow K, Bien CG, Pfäfflin M, Elger C, Widman G, Schramm J, Becker A, Braun KP, Leijten F, Baayen JC, Aronica E, Chassoux F, Hamer H, Stefan H, Rössler K, Thom M, Walker MC, Sisodiya SM, Duncan JS, McEvoy AW, Pieper T, Holthausen H, Kudernatsch M, Meencke HJ, Kahane P, Schulze-Bonhage A, Zentner J, Heiland DH, Urbach H, Steinhoff BJ, Bast T, Tassi L, Lo Russo G, Özkara C, Oz B, Krsek P, Vogelgesang S, Runge U, Lerche H, Weber Y, Honavar M, Pimentel J, Arzimanoglou A, Ulate-Campos A, Noachtar S, Hartl E, Schijns O, Guerrini R, Barba C, Jacques TS, Cross JH, Feucht M, Mühlebner A, Grunwald T, Trinka E, Winkler PA, Gil-Nagel A, Toledano Delgado R, Mayer T, Lutz M, Zountsas B, Garganis K, Rosenow F, Hermsen A, von Oertzen TJ, Diepgen TL, Avanzini G; EEBB Consortium. Histopathological Findings in Brain Tissue Obtained during Epilepsy Surgery. N Engl J Med. 2017 Oct 26;377(17):1648-1656. doi: 10.1056/NEJMoa1703784. PubMed PMID: 29069555.

40: Külling FA, Ebneter L, Rempfler GS, Zdravkovic V. A new parallel closing mechanism for the laminectomy rongeur makes it significantly more precise: a biomechanical and mechanical comparison study. Eur Spine J. 2018 May;27(5):1172-1177. doi: 10.1007/s00586-017-5341-y. Epub 2017 Oct 24. PubMed PMID: 29067528.

41: Fedele T, Burnos S, Boran E, Krayenbühl N, Hilfiker P, Grunwald T, Sarnthein J. Resection of high frequency oscillations predicts seizure outcome in the individual patient. Sci Rep. 2017 Oct 23;7(1):13836. doi: 10.1038/s41598-017-13064-1. PubMed PMID: 29062105; PubMed Central PMCID: PMC5653833.

42: Maillard LG, Tassi L, Bartolomei F, Catenoix H, Dubeau F, Szurhaj W, Kahane P, Nica A, Marusic P, Mindruta I, Chassoux F, Ramantani G. Stereoelectroencephalography and surgical outcome in polymicrogyria-related epilepsy: A multicentric study. Ann Neurol. 2017 Nov;82(5):781-794. doi: 10.1002/ana.25081. Epub 2017 Nov 11. PubMed PMID: 29059488.

43: Renfrow JJ, Weller M, Strowd RE. Meeting Update-World Federation of Neuro-Oncology Societies (WFNOS) Meeting 2017. Neuro Oncol. 2017 Oct 19;19(11):1457-1459. doi: 10.1093/neuonc/nox184. PubMed PMID: 29059448; PubMed Central PMCID: PMC5737526.

44: Habraken SJM, Sharfo AWM, Buijsen J, Verbakel WFAR, Haasbeek CJA, Öllers MC, Westerveld H, van Wieringen N, Reerink O, Seravalli E, Braam PM, Wendling M, Lacornerie T, Mirabel X, Weytjens R, Depuydt L, Tanadini-Lang S, Riesterer O, Haustermans K, Depuydt T, Dwarkasing RS, Willemssen FEJA, Heijmen BJM, Méndez Romero A. The TRENDY multi-center randomized trial on hepatocellular carcinoma - Trial QA including automated treatment planning and benchmark-case results. Radiother Oncol. 2017 Dec;125(3):507-513. doi: 10.1016/j.radonc.2017.09.007. Epub 2017 Oct 16. PubMed PMID: 29050954.

45: Krauss P, Fritz-Naville M, Regli L, Stieglitz LH. Progressive Functional Underdrainage in Cerebrospinal Fluid Shunt-Dependent Women During Pregnancy: Case Report and Review of the Literature. World Neurosurg. 2018 Jan;109:372-376. doi: 10.1016/j.wneu.2017.09.108. Epub 2017 Oct 14. Review. PubMed PMID: 29038081.

46: Burkhardt JK, Winklhofer S, Fierstra J, Wegener S, Esposito G, Luft A, Bozinov O, Regli L. Emergency Extracranial-Intracranial Bypass to Revascularize Salvageable Brain Tissue in Acute Ischemic Stroke Patients. World Neurosurg. 2018 Jan;109:e476-e485. doi: 10.1016/j.wneu.2017.10.005. Epub 2017 Oct 12. PubMed PMID: 29032219.

47: Beyer U, Brand F, Martens H, Weder J, Christians A, Elyan N, Hentschel B, Westphal M, Schackert G, Pietsch T, Hong B, Krauss JK, Samii A, Raab P, Das A, Dumitru CA, Sandalcioglu IE, Hakenberg OW, Erbersdobler A, Lehmann U, Reifenberger G, Weller M, Reijns MAM, Preller M, Wiese B, Hartmann C, Weber RG. Rare ADAR and RNASEH2B variants and a type I interferon signature in glioma and prostate carcinoma risk and tumorigenesis. Acta Neuropathol. 2017 Dec;134(6):905-922. doi: 10.1007/s00401-017-1774-y. Epub 2017 Oct 13. PubMed PMID: 29030706.

48: Moransard M, Bednar M, Frei K, Gassmann M, Ogunshola OO. Erythropoietin reduces experimental autoimmune encephalomyelitis severity via neuroprotective mechanisms. J Neuroinflammation. 2017 Oct 13;14(1):202. doi: 10.1186/s12974-017-0976-5. PubMed PMID: 29029628; PubMed Central PMCID: PMC5640948.

49: Mindermann T, Mack A. Proton-beam therapy or photon-beam radiosurgery for WHO grade I meningiomas? Acta Neurochir (Wien). 2017 Dec;159(12):2401-2403. doi: 10.1007/s00701-017-3353-3. Epub 2017 Oct 13. PubMed PMID: 29027014.

50: Neidert MC, Lawton MT, Kim LJ, Nerva JD, Kurisu K, Ikawa F, Konczalla J, Dinc N, Seifert V, Habdank-Kolaczkowski J, Hatano T, Hayase M, Podlesek D, Schackert G, Wanet T, Gläsker S, Griessenauer CJ, Ogilvy CS, Kneist A, Sure U, Seifert B, Regli L, Bozinov O, Burkhardt JK. International multicentre validation of the arteriovenous malformation-related intracerebral haemorrhage (AVICH) score. J Neurol Neurosurg Psychiatry. 2017 Oct 6. pii: jnnp-2017-316259. doi: 10.1136/jnnp-2017-316259. [Epub ahead of print] PubMed PMID: 28986471.

51: Fierstra J, van Niftrik C, Piccirelli M, Bozinov O, Pangalu A, Krayenbühl N, Valavanis A, Weller M, Regli L. Diffuse gliomas exhibit whole brain impaired cerebrovascular reactivity. Magn Reson Imaging. 2018 Jan;45:78-83. doi: 10.1016/j.mri.2017.09.017. Epub 2017 Oct 3. PubMed PMID: 28986176.

52: Yilgor C, Sogunmez N, Boissiere L, Yavuz Y, Obeid I, Kleinstück F, Pérez-Grueso FJS, Acaroglu E, Haddad S, Mannion AF, Pellise F, Alanay A; European Spine Study Group (ESSG). Global Alignment and Proportion (GAP) Score: Development and Validation of a New Method of Analyzing Spinopelvic Alignment to Predict Mechanical Complications After Adult Spinal Deformity Surgery. J Bone Joint Surg Am. 2017 Oct 4;99(19):1661-1672. doi: 10.2106/JBJS.16.01594. PubMed PMID: 28976431.

53: Voormolen EHJ, Diederen S, van Stralen M, Woerdeman PA, Noordmans HJ, Viergever MA, Regli L, Robe PA, Berkelbach van der Sprenkel JW. Benchmarking Distance Control and Virtual Drilling for Lateral Skull Base Surgery. World Neurosurg. 2018 Jan;109:e217-e228. doi: 10.1016/j.wneu.2017.09.142. Epub 2017 Sep 29. PubMed PMID: 28966150.

54: Mackay A, Burford A, Carvalho D, Izquierdo E, Fazal-Salom J, Taylor KR, Bjerke L, Clarke M, Vinci M, Nandhabalan M, Temelso S, Popov S, Molinari V, Raman P, Waanders AJ, Han HJ, Gupta S, Marshall L, Zacharoulis S, Vaidya S, Mandeville HC, Bridges LR, Martin AJ, Al-Sarraj S, Chandler C, Ng HK, Li X, Mu K, Trabelsi S, Brahim DH, Kisljakov AN, Konovalov DM, Moore AS, Carcaboso AM, Sunol M, de Torres C, Cruz O, Mora J, Shats LI, Stavale JN, Bidinotto LT, Reis RM, Entz-Werle N, Farrell M, Cryan J, Crimmins D, Caird J, Pears J, Monje M, Debily MA, Castel D, Grill J, Hawkins C, Nikbakht H, Jabado N, Baker SJ, Pfister SM, Jones DTW, Fouladi M, von Bueren AO, Baudis M, Resnick A, Jones C. Integrated Molecular Meta-Analysis of 1,000 Pediatric High-Grade and Diffuse Intrinsic Pontine Glioma. Cancer Cell. 2017 Oct 9;32(4):520-537.e5. doi: 10.1016/j.ccell.2017.08.017. Epub 2017 Sep 28. PubMed PMID: 28966033; PubMed Central PMCID: PMC5637314.

55: Unkelbach J, Papp D, Gaddy MR, Andratschke N, Hong T, Guckenberger M. Spatiotemporal fractionation schemes for liver stereotactic body radiotherapy. Radiother Oncol. 2017 Nov;125(2):357-364. doi: 10.1016/j.radonc.2017.09.003. Epub 2017 Sep 23. PubMed PMID: 28951010; PubMed Central PMCID: PMC5705331.

56: Ehrbar S, Schmid S, Jöhl A, Klöck S, Guckenberger M, Riesterer O, Tanadini-Lang S. Comparison of multi-leaf collimator tracking and treatment-couch tracking during stereotactic body radiation therapy of prostate cancer. Radiother Oncol. 2017 Dec;125(3):445-452. doi: 10.1016/j.radonc.2017.08.035. Epub 2017 Sep 18. PubMed PMID: 28935181.

57: Adam A, Robison J, Lu J, Jose R, Badran N, Vivas-Buitrago T, Rigamonti D, Sattar A, Omoush O, Hammad M, Dawood M, Maghaslah M, Belcher T, Carson K, Hoffberger J, Jusué Torres I, Foley S, Yasar S, Thai QA, Wemmer J, Klinge P, Al-Mutawa L, Al-Ghamdi H, Carson KA, Asgari M, de Zélicourt D, Kurtcuoglu V, Garnotel S, Salmon S, Balédent O, Lokossou A, Page G, Balardy L, Czosnyka Z, Payoux P, Schmidt EA, Zitoun M, Sevestre MA, Alperin N, Baudracco I, Craven C, Matloob S, Thompson S, Haylock Vize P, Thorne L, Watkins LD, Toma AK, Bechter K, Pong AC, Jugé L, Bilston LE, Cheng S, Bradley W, Hakim F, Ramón JF, Cárdenas MF, Davidson JS, García C, González D, Bermúdez S, Useche N, Mejía JA, Mayorga P, Cruz F, Martinez C, Matiz MC, Vallejo M, Ghotme K, Soto HA, Riveros D, Buitrago A, Mora M, Murcia L, Bermudez S, Cohen D, Dasgupta D, Curtis C, Domínguez L, Remolina AJ,

Grijalba MA, Whitehouse KJ, Edwards RJ, Eleftheriou A, Lundin F, Fountas KN, Kapsalaki EZ, Smisson HF, Robinson JS, Fritsch MJ, Arouk W, Garzon M, Kang M, Sandhu K, Baghawatti D, Aquilina K, James G, Thompson D, Gehlen M, Schmid Daners M, Eklund A, Malm J, Gomez D, Guerra M, Jara M, Flores M, Vío K, Moreno I, Rodríguez S, Ortega E, Rodríguez EM, McAllister JP, Guerra MM, Morales DM, Sival D, Jimenez A, Limbrick DD, Ishikawa M, Yamada S, Yamamoto K, Junkkari A, Häyrinen A, Rauramaa T, Sintonen H, Nerg O, Koivisto AM, Roine RP, Viinamäki H, Soininen H, Luikku A, Jääskeläinen JE, Leinonen V, Kehler U, Lilja-Lund O, Kockum K, Larsson EM, Riklund K, Söderström L, Hellström P, Laurell K, Kojoukhova M, Sutela A, Vanninen R, Vanha KI, Timonen M, Rummukainen J, Korhonen V, Helisalmi S, Solje E, Remes AM, Huovinen J, Paananen J, Hiltunen M, Kurki M, Martin B, Loth F, Luciano M, Luikku AJ, Hall A, Herukka SK, Mattila J, Lötjönen J, Alafuzoff I, Jurjević I, Miyajima M, Nakajima M, Murai H, Shin T, Kawaguchi D, Akiba C, Ogino I, Karagiozov K, Arai H, Reis RC, Teixeira MJ, Valêncio CG, da Vigua D, Almeida-Lopes L, Mancini MW, Pinto FCG, Maykot RH, Calia G, Tornai J, Silvestre SSS, Mendes G, Sousa V, Bezerra B, Dutra P, Modesto P, Oliveira MF, Petitto CE, Pulhorn H, Chandran A, McMahon C, Rao AS, Jumaly M, Solomon D, Moghekar A, Relkin N, Hamilton M, Katzen H, Williams M, Bach T, Zuspan S, Holubkov R, Rigamonti A, Clemens G, Sharkey P, Sanyal A, Sankey E, Rigamonti K, Naqvi S, Hung A, Schmidt E, Ory-Magne F, Gantet P, Guenego A, Januel AC, Tall P, Fabre N, Mahieu L, Cognard C, Gray L, Buttner-Ennever JA, Takagi K, Onouchi K, Thompson SD, Thorne LD, Tully HM, Wenger TL, Kukull WA, Doherty D, Dobyns WB, Moran D, Vakili S, Patel MA, Elder B, Goodwin CR, Crawford JA, Pletnikov MV, Xu J, Blitz A, Herzka DA, Guerrero-Cazares H, Quiñones-Hinojosa A, Mori S, Saavedra P, Treviño H, Maitani K, Ziai WC, Eslami V, Nekoovaght-Tak S, Dlugash R, Yenokyan G, McBee N, Hanley DF. Abstracts from Hydrocephalus 2016. Fluids Barriers CNS. 2017 Jun 7;14(Suppl 1):15. doi: 10.1186/s12987-017-0054-5. PubMed PMID: 28929972; PubMed Central PMCID: PMC5471936.

58: Kadri PAS, de Oliveira JG, Krayenbühl N, Türe U, de Oliveira EPL, Al-Mefty O, Ribas GC. Surgical Approaches to the Temporal Horn: An Anatomic Analysis of White Matter Tract Interruption. Oper Neurosurg (Hagerstown). 2017 Apr 1;13(2):258-270. doi: 10.1093/ons/opw011. PubMed PMID: 28927207.

59: Bellut D, Burkhardt JK, Schultze D, Ginsberg HJ, Regli L, Sarnthein J. Validating a therapy-oriented complication grading system in lumbar spine surgery: a prospective population-based study. Sci Rep. 2017 Sep 18;7(1):11752. doi: 10.1038/s41598-017-12038-7. PubMed PMID: 28924249; PubMed Central PMCID: PMC5603580.

60: Guentchev M, Preuss C, Rink R, Peter L, Sailer MHM, Tuettenberg J. Long-Term Reduction of Sacroiliac Joint Pain With Peripheral Nerve Stimulation. Oper Neurosurg (Hagerstown). 2017 Oct 1;13(5):634-639. doi: 10.1093/ons/opx017. PubMed PMID: 28922873.

61: Korkmaz E, Kleinloog R, Verweij BH, Allijn IE, Hekking LHP, Regli L, Rinkel GJE, Ruigrok YM, Andries Post J. Comparative Ultrastructural and Stereological Analyses of Unruptured and Ruptured Saccular Intracranial Aneurysms. J Neuropathol Exp Neurol. 2017 Oct 1;76(10):908-916. doi: 10.1093/jnen/nlx075. PubMed PMID: 28922850.

62: Moustakis C, Blanck O, Ebrahimi F, Ka Heng Chan M, Ernst I, Krieger T, Duma MN, Oechsner M, Ganswindt U, Heinz C, Alheit H, Blank H, Nestle U, Wiehle R, Kornhuber C, Ostheimer C, Petersen C, Pollul G, Baus W, Altenstein G, Beckers E, Jurianz K, Sterzing F, Kretschmer M, Seegenschmiedt H, Maass T, Droege S, Wolf U, Schoeffler J, Haverkamp U, Eich H, Guckenberger M. Time for standardization of SBRT planning through large scale clinical data and guideline-based approaches. Strahlenther Onkol. 2017 Dec;193(12):1068-1069. doi: 10.1007/s00066-017-1216-8. Epub 2017 Sep 15. PubMed PMID: 28916902.

63: Schreglmann SR, Riederer F, Galovic M, Ganos C, Kägi G, Waldvogel D, Jaunmuktane Z, Schaller A,

Hidding U, Krasemann E, Michels L, Baumann CR, Bhatia K, Jung HH. Movement disorders in genetically confirmed mitochondrial disease and the putative role of the cerebellum. Mov Disord. 2018 Jan;33(1):146-155. doi: 10.1002/mds.27174. Epub 2017 Sep 13. PubMed PMID: 28901595.

64: McCrory P, Meeuwisse W, Dvorak J, Aubry M, Bailes J, Broglio S, Cantu RC, Cassidy D, Echemendia RJ, Castellani RJ, Davis GA, Ellenbogen R, Emery C, Engebretsen L, Feddermann-Demont N, Giza CC, Guskiewicz KM, Herring S, Iverson GL, Johnston KM, Kissick J, Kutcher J, Leddy JJ, Maddocks D, Makdissi M, Manley G, McCrea M, Meehan WP, Nagahiro S, Patricios J, Putukian M, Schneider KJ, Sills A, Tator CH, Turner M, Vos PE. Infographic: Consensus statement on concussion in sport. Br J Sports Med. 2017 Nov;51(21):1557-1558. doi: 10.1136/bjsports-2017-098065. Epub 2017 Sep 12. PubMed PMID: 28899991.

65: Bucher T, Weltert M, Rollo ME, Smith SP, Jia W, Collins CE, Sun M. The international food unit: a new measurement aid that can improve portion size estimation. Int J Behav Nutr Phys Act. 2017 Sep 12;14(1):124. doi: 10.1186/s12966-017-0583-y. PubMed PMID: 28899402; PubMed Central PMCID: PMC5596841.

66: Bensler S, Sutter R, Pfirrmann CWA, Peterson CK. Particulate versus non-particulate corticosteroids for transforaminal nerve root blocks: Comparison of outcomes in 494 patients with lumbar radiculopathy. Eur Radiol. 2018 Mar;28(3):946-952. doi: 10.1007/s00330-017-5045-z. Epub 2017 Sep 11. PubMed PMID: 28894933.

67: Roesch J, Cho JBC, Fahim DK, Gerszten PC, Flickinger JC, Grills IS, Jawad M, Kersh R, Letourneau D, Mantel F, Sahgal A, Shin JH, Winey B, Guckenberger M. Risk for surgical complications after previous stereotactic body radiotherapy of the spine. Radiat Oncol. 2017 Sep 11;12(1):153. doi: 10.1186/s13014-017-0887-8. PubMed PMID: 28893299; PubMed Central PMCID: PMC5594477.

68: Joswig H, Korte W, Früh S, Epprecht L, Hildebrandt G, Fournier JY, Stienen MN. Neurodegenerative cerebrospinal fluid biomarkers tau and amyloid beta predict functional, quality of life, and neuropsychological outcomes after aneurysmal subarachnoid hemorrhage. Neurosurg Rev. 2018 Apr;41(2):605-614. doi: 10.1007/s10143-017-0900-6. Epub 2017 Sep 10. PubMed PMID: 28890998.

69: Staartjes VE, Vergroesen PA, Zeilstra DJ, Schröder ML. Identifying subsets of patients with single-level degenerative disc disease for lumbar fusion: the value of prognostic tests in surgical decision making. Spine J. 2018 Apr;18(4):558-566. doi: 10.1016/j.spinee.2017.08.242. Epub 2017 Sep 7. PubMed PMID: 28890222.

70: Andereggen L, Biétry D, Kottke R, Andres RH. Intracranial Foreign Body in a Patient With Paranoid Schizophrenia. J Craniofac Surg. 2017 Oct;28(7):e685-e687. doi: 10.1097/SCS.0000000000003843. PubMed PMID: 28885436.

71: Candrian G, Müller A, Dall'Acqua P, Kompatsiari K, Baschera GM, Mica L, Simmen HP, Glaab R, Fandino J, Schwendinger M, Meier C, Ulbrich EJ, Johannes S. Longitudinal study of a NoGo-P3 event-related potential component following mild traumatic brain injury in adults. Ann Phys Rehabil Med. 2018 Jan;61(1):18-26. doi: 10.1016/j.rehab.2017.07.246. Epub 2017 Sep 4. PubMed PMID: 28882543.

72: Le Rhun E, Weller M, Brandsma D, Van den Bent M, de Azambuja E, Henriksson R, Boulanger T, Peters S, Watts C, Wick W, Wesseling P, Rudà R, Preusser M; EANO Executive Board and ESMO Guidelines Committee. EANO-ESMO Clinical Practice Guidelines for diagnosis, treatment and follow-up of patients with leptomeningeal metastasis from solid tumours. Ann Oncol. 2017 Jul 1;28(suppl_4):iv84-iv99. doi: 10.1093/annonc/mdx221. PubMed PMID: 28881917.

73: Schubert-Bast S, Hofstetter P, Fischer D, Schloesser R, Ramantani G, Kieslich M. Sodium channel

blockers in KCNQ2-encephalopathy: Lacosamide as a new treatment option. Seizure. 2017 Oct;51:171-173. doi: 10.1016/j.seizure.2017.08.005. Epub 2017 Sep 1. PubMed PMID: 28881259.

74: Gohritz A, Kaiser E, Guggenheim M, Dellon AL. Nikolaus Rüdinger (1832-1896), His Description of Joint Innervation in 1857, and the History of Surgical Joint Denervation. J Reconstr Microsurg. 2018 Jan;34(1):21-28. doi: 10.1055/s-0037-1606272. Epub 2017 Sep 6. PubMed PMID: 28877538.

75: Venturini E, Leanza L, Azzolini M, Kadow S, Mattarei A, Weller M, Tabatabai G, Edwards MJ, Zoratti M, Paradisi C, Szabò I, Gulbins E, Becker KA. Targeting the Potassium Channel Kv1.3 Kills Glioblastoma Cells. Neurosignals. 2017;25(1):26-38. doi: 10.1159/000480643. Epub 2017 Sep 1. PubMed PMID: 28869943.

76: Felsberg J, Hentschel B, Kaulich K, Gramatzki D, Zacher A, Malzkorn B, Kamp M, Sabel M, Simon M, Westphal M, Schackert G, Tonn JC, Pietsch T, von Deimling A, Loeffler M, Reifenberger G, Weller M; German Glioma Network. Epidermal Growth Factor Receptor Variant III (EGFRvIII) Positivity in EGFR-Amplified Glioblastomas: Prognostic Role and Comparison between Primary and Recurrent Tumors. Clin Cancer Res. 2017 Nov 15;23(22):6846-6855. doi: 10.1158/1078-0432.CCR-17-0890. Epub 2017 Aug 29. PubMed PMID: 28855349.

77: Dall'Acqua P, Johannes S, Mica L, Simmen HP, Glaab R, Fandino J, Schwendinger M, Meier C, Ulbrich EJ, Müller A, Jäncke L, Hänggi J. Prefrontal Cortical Thickening after Mild Traumatic Brain Injury: A One-Year Magnetic Resonance Imaging Study. J Neurotrauma. 2017 Dec 1;34(23):3270-3279. doi: 10.1089/neu.2017.5124. Epub 2017 Oct 27. PubMed PMID: 28847215.

78: Hua L, Luan S, Li H, Zhu H, Tang H, Liu H, Chen X, Bozinov O, Xie Q, Gong Y. Angiomatous Meningiomas Have a Very Benign Outcome Despite Frequent Peritumoral Edema at Onset. World Neurosurg. 2017 Dec;108:465-473. doi: 10.1016/j.wneu.2017.08.096. Epub 2017 Aug 24. PubMed PMID: 28844928.

79: Weller M, Butowski N, Tran DD, Recht LD, Lim M, Hirte H, Ashby L, Mechtler L, Goldlust SA, Iwamoto F, Drappatz J, O'Rourke DM, Wong M, Hamilton MG, Finocchiaro G, Perry J, Wick W, Green J, He Y, Turner CD, Yellin MJ, Keler T, Davis TA, Stupp R, Sampson JH; ACT IV trial investigators. Rindopepimut with temozolomide for patients with newly diagnosed, EGFRvIII-expressing glioblastoma (ACT IV): a randomised, double-blind, international phase 3 trial. Lancet Oncol. 2017 Oct;18(10):1373-1385. doi: 10.1016/S1470-2045(17)30517-X. Epub 2017 Aug 23. PubMed PMID: 28844499.

80: Joswig H, Neff A, Ruppert C, Hildebrandt G, Stienen MN. The Value of Short-Term Pain Relief in Predicting the Long-Term Outcome of Lumbar Transforaminal Epidural Steroid Injections. World Neurosurg. 2017 Nov;107:764-771. doi: 10.1016/j.wneu.2017.08.055. Epub 2017 Aug 23. PubMed PMID: 28838872.

81: Gunnarut I, Burkhardt JK, Neidert MC, Bozinov O. Letter: Endoscopic and Gravity-Assisted Resection of Medial Temporo-occipital Lesions Through a Supracerebellar Transtentorial Approach: Technical Notes With Case Illustrations. Oper Neurosurg (Hagerstown). 2017 Aug 1;13(4):E541-E542. doi: 10.1093/ons/opw041. PubMed PMID: 28838105.

82: Coles AJ, Cohen JA, Fox EJ, Giovannoni G, Hartung HP, Havrdova E, Schippling S, Selmaj KW, Traboulsee A, Compston DAS, Margolin DH, Thangavelu K, Chirieac MC, Jody D, Xenopoulos P, Hogan RJ, Panzara MA, Arnold DL; CARE-MS II and CAMMS03409 Investigators. Alemtuzumab CARE-MS II 5-year follow-up: Efficacy and safety findings. Neurology. 2017 Sep 12;89(11):1117-1126. doi: 10.1212/WNL.0000000000004354. Epub 2017 Aug 23. PubMed PMID: 28835403; PubMed Central

PMCID: PMC5595276.

83: Havrdova E, Arnold DL, Cohen JA, Hartung HP, Fox EJ, Giovannoni G, Schippling S, Selmaj KW, Traboulsee A, Compston DAS, Margolin DH, Thangavelu K, Rodriguez CE, Jody D, Hogan RJ, Xenopoulos P, Panzara MA, Coles AJ; CARE-MS I and CAMMS03409 Investigators. Alemtuzumab CARE-MS I 5-year follow-up: Durable efficacy in the absence of continuous MS therapy. Neurology. 2017 Sep 12;89(11):1107-1116. doi: 10.1212/WNL.0000000000004313. Epub 2017 Aug 23. Erratum in: Neurology. 2018 Apr 17;90(16):755. PubMed PMID: 28835401; PubMed Central PMCID: PMC5595278.

84: De La Fuente AG, Lange S, Silva ME, Gonzalez GA, Tempfer H, van Wijngaarden P, Zhao C, Di Canio L, Trost A, Bieler L, Zaunmair P, Rotheneichner P, O'Sullivan A, Couillard-Despres S, Errea O, Mäe MA, Andrae J, He L, Keller A, Bátiz LF, Betsholtz C, Aigner L, Franklin RJM, Rivera FJ. Pericytes Stimulate Oligodendrocyte Progenitor Cell Differentiation during CNS Remyelination. Cell Rep. 2017 Aug 22;20(8):1755-1764. doi: 10.1016/j.celrep.2017.08.007. PubMed PMID: 28834740; PubMed Central PMCID: PMC5574064.

85: Serra C, Maldaner N, Muscas G, Staartjes V, Pangalu A, Holzmann D, Soyka M, Schmid C, Regli L. The changing sella: internal carotid artery shift during transsphenoidal pituitary surgery. Pituitary. 2017 Dec;20(6):654-660. doi: 10.1007/s11102-017-0830-x. PubMed PMID: 28828722.

86: Fedele T, Schönenberger C, Curio G, Serra C, Krayenbühl N, Sarnthein J. Intraoperative subdural low-noise EEG recording of the high frequency oscillation in the somatosensory evoked potential. Clin Neurophysiol. 2017 Oct;128(10):1851-1857. doi: 10.1016/j.clinph.2017.07.400. Epub 2017 Jul 27. PubMed PMID: 28826015.

87: Chow RD, Guzman CD, Wang G, Schmidt F, Youngblood MW, Ye L, Errami Y, Dong MB, Martinez MA, Zhang S, Renauer P, Bilguvar K, Gunel M, Sharp PA, Zhang F, Platt RJ, Chen S. AAV-mediated direct in vivo CRISPR screen identifies functional suppressors in glioblastoma. Nat Neurosci. 2017 Oct;20(10):1329-1341. doi: 10.1038/nn.4620. Epub 2017 Aug 14. PubMed PMID: 28805815; PubMed Central PMCID: PMC5614841.

88: Fan Z, Wirth AK, Chen D, Wruck CJ, Rauh M, Buchfelder M, Savaskan N. Nrf2-Keap1 pathway promotes cell proliferation and diminishes ferroptosis. Oncogenesis. 2017 Aug 14;6(8):e371. doi: 10.1038/oncsis.2017.65. PubMed PMID: 28805788; PubMed Central PMCID: PMC5608917.

89: van den Bent MJ, Baumert B, Erridge SC, Vogelbaum MA, Nowak AK, Sanson M, Brandes AA, Clement PM, Baurain JF, Mason WP, Wheeler H, Chinot OL, Gill S, Griffin M, Brachman DG, Taal W, Rudà R, Weller M, McBain C, Reijneveld J, Enting RH, Weber DC, Lesimple T, Clenton S, Gijtenbeek A, Pascoe S, Herrlinger U, Hau P, Dhermain F, van Heuvel I, Stupp R, Aldape K, Jenkins RB, Dubbink HJ, Dinjens WNM, Wesseling P, Nuyens S, Golfinopoulos V, Gorlia T, Wick W, Kros JM. Interim results from the CATNON trial (EORTC study 26053-22054) of treatment with concurrent and adjuvant temozolomide for 1p/19q non-co-deleted anaplastic glioma: a phase 3, randomised, open-label intergroup study. Lancet. 2017 Oct 7;390(10103):1645-1653. doi: 10.1016/S0140-6736(17)31442-3. Epub 2017 Aug 8. PubMed PMID: 28801186; PubMed Central PMCID: PMC5806535.

90: Becker S, Gandhi W, Chen YJ, Schweinhardt P. Subjective utility moderates bidirectional effects of conflicting motivations on pain perception. Sci Rep. 2017 Aug 10;7(1):7790. doi: 10.1038/s41598-017-08454-4. PubMed PMID: 28798478; PubMed Central PMCID: PMC5552734.

91: Kirschenbaum D, Prömmel P, Vasella F, Haralambieva E, Marques Maggio E, Reisch R, Beer M, Camenisch U, Rushing EJ. Fibrin-associated diffuse large B-cell lymphoma in a hemorrhagic cranial arachnoid cyst. Acta Neuropathol Commun. 2017 Aug 7;5(1):60. doi: 10.1186/s40478-017-0463-3.

PubMed PMID: 28784166; PubMed Central PMCID: PMC5545859.

92: Nogueira AB, Annen E, Boss O, Farokhzad F, Sikorski C, Keller E. Temperature variability in the day-night cycle is associated with further intracranial pressure during therapeutic hypothermia. J Transl Med. 2017 Aug 3;15(1):170. doi: 10.1186/s12967-017-1272-y. PubMed PMID: 28774294; PubMed Central PMCID: PMC5543542.

93: Riederer P, Korczyn AD, Ali SS, Bajenaru O, Choi MS, Chopp M, Dermanovic-Dobrota V, Grünblatt E, Jellinger KA, Kamal MA, Kamal W, Leszek J, Sheldrick-Michel TM, Mushtaq G, Meglic B, Natovich R, Pirtosek Z, Rakusa M, Salkovic-Petrisic M, Schmidt R, Schmitt A, Sridhar GR, Vécsei L, Wojszel ZB, Yaman H, Zhang ZG, Cukierman-Yaffe T. The diabetic brain and cognition. J Neural Transm (Vienna). 2017 Nov;124(11):1431-1454. doi: 10.1007/s00702-017-1763-2. Epub 2017 Aug 1. Review. PubMed PMID: 28766040.

94: Staartjes VE, de Wispelaere MP, Miedema J, Schröder ML. Recurrent Lumbar Disc Herniation After Tubular Microdiscectomy: Analysis of Learning Curve Progression. World Neurosurg. 2017 Nov;107:28-34. doi: 10.1016/j.wneu.2017.07.121. Epub 2017 Jul 29. PubMed PMID: 28765022.

95: Weller M, van den Bent M, Tonn JC, Stupp R, Preusser M, Cohen-Jonathan-Moyal E, Henriksson R, Rhun EL, Balana C, Chinot O, Bendszus M, Reijneveld JC, Dhermain F, French P, Marosi C, Watts C, Oberg I, Pilkington G, Baumert BG, Taphoorn MJB, Hegi M, Westphal M, Reifenberger G, Soffietti R, Wick W; European Association for Neuro-Oncology (EANO) Task Force on Gliomas. Evidence-based management of adult patients with diffuse glioma - Authors' reply. Lancet Oncol. 2017 Aug;18(8):e430-e431. doi: 10.1016/S1470-2045(17)30515-6. Epub 2017 Jul 26. PubMed PMID: 28759377.

96: 't Hoen LA, Groen J, Scheepe JR, Reuvers S, Diaz DC, Fernández BP, Del Popolo G, Musco S, Hamid R, Ecclestone H, Karsenty G, Phé V, Boissier R, Kessler TM, Gross T, Schneider MP, Pannek J, Blok BFM. A Quality Assessment of Patient-Reported Outcome Measures for Sexual Function in Neurologic Patients Using the Consensus-based Standards for the Selection of Health Measurement Instruments Checklist: A Systematic Review. Eur Urol Focus. 2017 Oct;3(4-5):444-456. doi: 10.1016/j.euf.2016.06.009. Epub 2016 Jun 23. Review. PubMed PMID: 28753768.

97: Laios K. Rudolf Ulrich Krönlein (1847-1910): An Innovative General, Thoracic, Neuro, and Ocular Surgeon. Surg Innov. 2017 Dec;24(6):627-629. doi: 10.1177/1553350617722228. Epub 2017 Jul 25. PubMed PMID: 28741439.

98: Mignardot JB, Le Goff CG, van den Brand R, Capogrosso M, Fumeaux N, Vallery H, Anil S, Lanini J, Fodor I, Eberle G, Ijspeert A, Schurch B, Curt A, Carda S, Bloch J, von Zitzewitz J, Courtine G. A multidirectional gravity-assist algorithm that enhances locomotor control in patients with stroke or spinal cord injury. Sci Transl Med. 2017 Jul 19;9(399). pii: eaah3621. doi: 10.1126/scitranslmed.aah3621. PubMed PMID: 28724575.

99: Kubben PL, Germans MR, Jabbarli R. Delayed cerebral ischemia after subarachnoid hemorrhage: Comparing and integrating classification systems. Surg Neurol Int. 2017 Jun 21;8:121. doi: 10.4103/2152-7806.208805. eCollection 2017. PubMed PMID: 28713625; PubMed Central PMCID: PMC5502297.

100: van Klink N, van Rosmalen F, Nenonen J, Burnos S, Helle L, Taulu S, Furlong PL, Zijlmans M, Hillebrand A. Automatic detection and visualisation of MEG ripple oscillations in epilepsy. Neuroimage Clin. 2017 Jun 17;15:689-701. doi: 10.1016/j.nicl.2017.06.024. eCollection 2017. PubMed PMID: 28702346; PubMed Central PMCID: PMC5486372.

101: Guckenberger M, Andratschke N, Dieckmann K, Hoogeman MS, Hoyer M, Hurkmans C, Tanadini-Lang S, Lartigau E, Méndez Romero A, Senan S, Verellen D. ESTRO ACROP consensus guideline on implementation and practice of stereotactic body radiotherapy for peripherally located early stage non-small cell lung cancer. Radiother Oncol. 2017 Jul;124(1):11-17. doi: 10.1016/j.radonc.2017.05.012. Epub 2017 Jul 4. PubMed PMID: 28687397.

102: Bijlenga P, Gondar R, Schilling S, Morel S, Hirsch S, Cuony J, Corniola MV, Perren F, Rüfenacht D, Schaller K. PHASES Score for the Management of Intracranial Aneurysm: A Cross-Sectional Population-Based Retrospective Study. Stroke. 2017 Aug;48(8):2105-2112. doi: 10.1161/STROKEAHA.117.017391. Epub 2017 Jun 30. PubMed PMID: 28667020.

103: De Ruysscher D, Faivre-Finn C, Moeller D, Nestle U, Hurkmans CW, Le Péchoux C, Belderbos J, Guckenberger M, Senan S; Lung Group and the Radiation Oncology Group of the European Organization for Research and Treatment of Cancer (EORTC). European Organization for Research and Treatment of Cancer (EORTC) recommendations for planning and delivery of high-dose, high precision radiotherapy for lung cancer. Radiother Oncol. 2017 Jul;124(1):1-10. doi: 10.1016/j.radonc.2017.06.003. Epub 2017 Jun 27. PubMed PMID: 28666551.

104: Gehlen M, Eklund A, Kurtcuoglu V, Malm J, Schmid Daners M. Comparison of anti-siphon devices-how do they affect CSF dynamics in supine and upright posture? Acta Neurochir (Wien). 2017 Aug;159(8):1389-1397. doi: 10.1007/s00701-017-3249-2. Epub 2017 Jun 28. PubMed PMID: 28660395.

105: Gandhi W, Morrison I, Schweinhardt P. How Accurate Appraisal of Behavioral Costs and Benefits Guides Adaptive Pain Coping. Front Psychiatry. 2017 Jun 12;8:103. doi: 10.3389/fpsyt.2017.00103. eCollection 2017. Review. PubMed PMID: 28659834; PubMed Central PMCID: PMC5467009.

106: Gembruch O, Dammann P, Schoemberg T, Ahmadipour Y, Payer M, Sure U, Tessitore E, Özkan N. Ventral C1 Fracture Combined with Congenital Posterior Cleft: What to Do? J Neurol Surg A Cent Eur Neurosurg. 2018 Jan;79(1):66-72. doi: 10.1055/s-0037-1603636. Epub 2017 Jun 22. PubMed PMID: 28641334.

107: Cotterill N, Madersbacher H, Wyndaele JJ, Apostolidis A, Drake MJ, Gajewski J, Heesakkers J, Panicker J, Radziszewski P, Sakakibara R, Sievert KD, Hamid R, Kessler TM, Emmanuel A. Neurogenic bowel dysfunction: Clinical management recommendations of the Neurologic Incontinence Committee of the Fifth International Consultation on Incontinence 2013. Neurourol Urodyn. 2018 Jan;37(1):46-53. doi: 10.1002/nau.23289. Epub 2017 Jun 22. Review. PubMed PMID: 28640977.

108: Herren C, Sobottke R, Mannion AF, Zweig T, Munting E, Otten P, Pigott T, Siewe J, Aghayev E; Spine Tango Contributors. Incidental durotomy in decompression for lumbar spinal stenosis: incidence, risk factors and effect on outcomes in the Spine Tango registry. Eur Spine J. 2017 Oct;26(10):2483-2495. doi: 10.1007/s00586-017-5197-1. Epub 2017 Jun 20. PubMed PMID: 28634709.

109: Spirig JM, Frank MN, Regli L, Stieglitz LH. Shunt age-related complications in adult patients with suspected shunt dysfunction. A recommended diagnostic workup. Acta Neurochir (Wien). 2017 Aug;159(8):1421-1428. doi: 10.1007/s00701-017-3237-6. Epub 2017 Jun 14. PubMed PMID: 28616668.

110: Galldiks N, Albert NL, Sommerauer M, Grosu AL, Ganswindt U, Law I, Preusser M, Le Rhun E, Vogelbaum MA, Zadeh G, Dhermain F, Weller M, Langen KJ, Tonn JC. PET imaging in patients with meningioma-report of the RANO/PET Group. Neuro Oncol. 2017 Nov 29;19(12):1576-1587. doi: 10.1093/neuonc/nox112. Review. PubMed PMID: 28605532; PubMed Central PMCID: PMC5716194.

111: Pace A, Dirven L, Koekkoek JAF, Golla H, Fleming J, Rudà R, Marosi C, Le Rhun E, Grant R, Oliver K, Oberg I, Bulbeck HJ, Rooney AG, Henriksson R, Pasman HRW, Oberndorfer S, Weller M, Taphoorn MJB; European Association of Neuro-Oncology palliative care task force. European Association for Neuro-Oncology (EANO) guidelines for palliative care in adults with glioma. Lancet Oncol. 2017 Jun;18(6):e330-e340. doi: 10.1016/S1470-2045(17)30345-5. Review. PubMed PMID: 28593859.

112: Kovacs GG, Xie SX, Lee EB, Robinson JL, Caswell C, Irwin DJ, Toledo JB, Johnson VE, Smith DH, Alafuzoff I, Attems J, Bencze J, Bieniek KF, Bigio EH, Bodi I, Budka H, Dickson DW, Dugger BN, Duyckaerts C, Ferrer I, Forrest SL, Gelpi E, Gentleman SM, Giaccone G, Grinberg LT, Halliday GM, Hatanpaa KJ, Hof PR, Hofer M, Hortobágyi T, Ironside JW, King A, Kofler J, Kövari E, Kril JJ, Love S, Mackenzie IR, Mao Q, Matej R, McLean C, Munoz DG, Murray ME, Neltner J, Nelson PT, Ritchie D, Rodriguez RD, Rohan Z, Rozemuller A, Sakai K, Schultz C, Seilhean D, Smith V, Tacik P, Takahashi H, Takao M, Rudolf Thal D, Weis S, Wharton SB, White CL 3rd, Woulfe JM, Yamada M, Trojanowski JQ. Multisite Assessment of Aging-Related Tau Astrogliopathy (ARTAG). J Neuropathol Exp Neurol. 2017 Jul 1;76(7):605-619. doi: 10.1093/jnen/nlx041. PubMed PMID: 28591867.

113: Ehrbar S, Jöhl A, Tartas A, Stark LS, Riesterer O, Klöck S, Guckenberger M, Tanadini-Lang S. ITV, mid-ventilation, gating or couch tracking - A comparison of respiratory motion-management techniques based on 4D dose calculations. Radiother Oncol. 2017 Jul;124(1):80-88. doi: 10.1016/j.radonc.2017.05.016. Epub 2017 Jun 3. PubMed PMID: 28587761.

114: Moustakis C, Blanck O, Ebrahimi Tazehmahalleh F, Ka Heng Chan M, Ernst I, Krieger T, Duma MN, Oechsner M, Ganswindt U, Heinz C, Alheit H, Blank H, Nestle U, Wiehle R, Kornhuber C, Ostheimer C, Petersen C, Pollul G, Baus W, Altenstein G, Beckers E, Jurianz K, Sterzing F, Kretschmer M, Seegenschmiedt H, Maass T, Droege S, Wolf U, Schoeffler J, Haverkamp U, Eich HT, Guckenberger M. Planning benchmark study for SBRT of early stage NSCLC : Results of the DEGRO Working Group Stereotactic Radiotherapy. Strahlenther Onkol. 2017 Oct;193(10):780-790. doi: 10.1007/s00066-017-1151-8. Epub 2017 May 31. PubMed PMID: 28567503.

115: Bertolini G, Durmaz MA, Ferrari K, Küffer A, Lambert C, Straumann D. Determinants of Motion Sickness in Tilting Trains: Coriolis/Cross-Coupling Stimuli and Tilt Delay. Front Neurol. 2017 May 15;8:195. doi: 10.3389/fneur.2017.00195. eCollection 2017. PubMed PMID: 28555125; PubMed Central PMCID: PMC5430385.

116: Chen D, Fan Z, Rauh M, Buchfelder M, Eyupoglu IY, Savaskan N. ATF4 promotes angiogenesis and neuronal cell death and confers ferroptosis in a xCT-dependent manner. Oncogene. 2017 Oct 5;36(40):5593-5608. doi: 10.1038/onc.2017.146. Epub 2017 May 29. PubMed PMID: 28553953; PubMed Central PMCID: PMC5633655.

117: Brégère C, Fisch U, Sailer MH, Lieb WS, Chicha L, Goepfert F, Kremer T, Guzman R. Neonatal hypoxia-ischemia in rat increases doublecortin concentration in the cerebrospinal fluid. Eur J Neurosci. 2017 Jul;46(2):1758-1767. doi: 10.1111/ejn.13612. Epub 2017 Jul 4. PubMed PMID: 28548285.

118: Betz M, Burgstaller JM, Held U, Andreisek G, Steurer J, Porchet F, Farshad M; LSOS Study Group. Influence of Paravertebral Muscle Quality on Treatment Efficacy of Epidural Steroid Infiltration or Surgical Decompression in Lumbar Spinal Stenosis-Analysis of the Lumbar Spinal Outcome Study (LSOS) Data: A Swiss Prospective Multicenter Cohort Study. Spine (Phila Pa 1976). 2017 Dec 1;42(23):1792-1798. doi: 10.1097/BRS.0000000000002233. PubMed PMID: 28542102.

119: Brouwers E, van de Meent H, Curt A, Starremans B, Hosman A, Bartels R. Definitions of traumatic conus medullaris and cauda equina syndrome: a systematic literature review. Spinal Cord. 2017 Oct;55(10):886-890. doi: 10.1038/sc.2017.54. Epub 2017 May 23. Review. PubMed PMID: 28534496.

120: Traber GL, Weber KP, Sabah M, Keane PA, Plant GT. Reply. Ophthalmology. 2017 Jun;124(6):e56. doi: 10.1016/j.ophtha.2017.01.008. PubMed PMID: 28528843.

121: Fedele T, Ramantani G, Burnos S, Hilfiker P, Curio G, Grunwald T, Krayenbühl N, Sarnthein J. Prediction of seizure outcome improved by fast ripples detected in low-noise intraoperative corticogram. Clin Neurophysiol. 2017 Jul;128(7):1220-1226. doi: 10.1016/j.clinph.2017.03.038. Epub 2017 Mar 31. PubMed PMID: 28521270.

122: Lindner T, Ahmeti H, Lübbing I, Helle M, Jansen O, Synowitz M, Ulmer S. Intraoperative resection control using arterial spin labeling - Proof of concept, reproducibility of data and initial results. Neuroimage Clin. 2017 Apr 25;15:136-142. doi: 10.1016/j.nicl.2017.04.021. eCollection 2017. PubMed PMID: 28507896; PubMed Central PMCID: PMC5423346.

123: Greuter L, Weil AG, Hildebrandt G, Surbeck W. Intrarectal Anesthesia in Neurosurgery. World Neurosurg. 2017 Aug;104:158-160. doi: 10.1016/j.wneu.2017.05.015. Epub 2017 May 11. Review. PubMed PMID: 28502682.

124: Rethmann C, Scheer I, Meuli M, Mazzone L, Moehrlen U, Kellenberger CJ. Evolution of posterior fossa and brain morphology after in utero repair of open neural tube defects assessed by MRI. Eur Radiol. 2017 Nov;27(11):4571-4580. doi: 10.1007/s00330-017-4807-y. Epub 2017 May 12. PubMed PMID: 28500367.

125: Kilday JP, Caldarelli M, Massimi L, Chen RH, Lee YY, Liang ML, Parkes J, Naiker T, van Veelen ML, Michiels E, Mallucci C, Pettorini B, Meijer L, Dorfer C, Czech T, Diezi M, Schouten-van Meeteren AYN, Holm S, Gustavsson B, Benesch M, Müller HL, Hoffmann A, Rutkowski S, Flitsch J, Escherich G, Grotzer M, Spoudeas HA, Azquikina K, Capra M, Jiménez-Guerra R, MacDonald P, Johnston DL, Dvir R, Constantini S, Kuo MF, Yang SH, Bartels U. Intracystic interferon-alfa in pediatric craniopharyngioma patients: an international multicenter assessment on behalf of SIOPE and ISPN. Neuro Oncol. 2017 Oct 1;19(10):1398-1407. doi: 10.1093/neuonc/nox056. PubMed PMID: 28499018; PubMed Central PMCID: PMC5596165.

126: Weller M, Roth P, Preusser M, Wick W, Reardon DA, Platten M, Sampson JH. Vaccine-based immunotherapeutic approaches to gliomas and beyond. Nat Rev Neurol. 2017 Jun;13(6):363-374. doi: 10.1038/nrneurol.2017.64. Epub 2017 May 12. Review. PubMed PMID: 28497804.

127: Makdissi M, Schneider KJ, Feddermann-Demont N, Guskiewicz KM, Hinds S, Leddy JJ, McCrea M, Turner M, Johnston KM. Approach to investigation and treatment of persistent symptoms following sport-related concussion: a systematic review. Br J Sports Med. 2017 Jun;51(12):958-968. doi: 10.1136/bjsports-2016-097470. Epub 2017 May 8. Review. PubMed PMID: 28483928.

128: Weller M, van den Bent M, Tonn JC, Stupp R, Preusser M, Cohen-Jonathan-Moyal E, Henriksson R, Le Rhun E, Balana C, Chinot O, Bendszus M, Reijneveld JC, Dhermain F, French P, Marosi C, Watts C, Oberg I, Pilkington G, Baumert BG, Taphoorn MJB, Hegi M, Westphal M, Reifenberger G, Soffietti R, Wick W; European Association for Neuro-Oncology (EANO) Task Force on Gliomas. European Association for Neuro-Oncology (EANO) guideline on the diagnosis and treatment of adult astrocytic and oligodendroglial gliomas. Lancet Oncol. 2017 Jun;18(6):e315-e329. doi: 10.1016/S1470-2045(17)30194-8. Epub 2017 May 5. Review. Erratum in: Lancet Oncol. 2017 Nov;18(11):e642. PubMed PMID: 28483413.

129: Stam B, Peulen H, Guckenberger M, Mantel F, Hope A, Werner-Wasik M, Belderbos J, Grills I, O'Connell N, Sonke JJ. Dose to heart substructures is associated with non-cancer death after SBRT in stage I-II NSCLC patients. Radiother Oncol. 2017 Jun;123(3):370-375. doi:

10.1016/j.radonc.2017.04.017. Epub 2017 May 2. PubMed PMID: 28476219.

130: Schröder ML, Staartjes VE. Revisions for screw malposition and clinical outcomes after robot-guided lumbar fusion for spondylolisthesis. Neurosurg Focus. 2017 May;42(5):E12. doi: 10.3171/2017.3.FOCUS16534. PubMed PMID: 28463610.

131: Maldaner N, Stienen MN, Bijlenga P, Croci D, Zumofen DW, Dalonzo D, Marbacher S, Maduri R, Daniel RT, Serra C, Esposito G, Neidert MC, Bozinov O, Regli L, Burkhardt JK. Interrater Agreement in the Radiologic Characterization of Ruptured Intracranial Aneurysms Based on Computed Tomography Angiography. World Neurosurg. 2017 Jul;103:876-882.e1. doi: 10.1016/j.wneu.2017.04.131. Epub 2017 Apr 28. PubMed PMID: 28461281.

132: Schonauer C, Stienen MN, Gautschi OP, Schaller K, Tessitore E. Endoscope-Assisted Extreme-Lateral Interbody Fusion: Preliminary Experience and Technical Note. World Neurosurg. 2017 Jul;103:869-875.e3. doi: 10.1016/j.wneu.2017.04.110. Epub 2017 Apr 26. PubMed PMID: 28456736.

133: Le Rhun E, Rudà R, Devos P, Hoang-Xuan K, Brandsma D, Pérez Segura P, Soffietti R, Weller M. Diagnosis and treatment patterns for patients with leptomeningeal metastasis from solid tumors across Europe. J Neurooncol. 2017 Jun;133(2):419-427. doi: 10.1007/s11060-017-2452-6. Epub 2017 Apr 28. PubMed PMID: 28455788.

134: Manley G, Gardner AJ, Schneider KJ, Guskiewicz KM, Bailes J, Cantu RC, Castellani RJ, Turner M, Jordan BD, Randolph C, Dvořák J, Hayden KA, Tator CH, McCrory P, Iverson GL. A systematic review of potential long-term effects of sport-related concussion. Br J Sports Med. 2017 Jun;51(12):969-977. doi: 10.1136/bjsports-2017-097791. Epub 2017 Apr 28. Review. PubMed PMID: 28455362; PubMed Central PMCID: PMC5466926.

135: Nayak L, DeAngelis LM, Brandes AA, Peereboom DM, Galanis E, Lin NU, Soffietti R, Macdonald DR, Chamberlain M, Perry J, Jaeckle K, Mehta M, Stupp R, Muzikansky A, Pentsova E, Cloughesy T, Iwamoto FM, Tonn JC, Vogelbaum MA, Wen PY, van den Bent MJ, Reardon DA. The Neurologic Assessment in Neuro-Oncology (NANO) scale: a tool to assess neurologic function for integration into the Response Assessment in Neuro-Oncology (RANO) criteria. Neuro Oncol. 2017 May 1;19(5):625-635. doi: 10.1093/neuonc/nox029. Review. PubMed PMID: 28453751; PubMed Central PMCID: PMC5464449.

136: Ahuja CS, Wilson JR, Nori S, Kotter MRN, Druschel C, Curt A, Fehlings MG. Traumatic spinal cord injury. Nat Rev Dis Primers. 2017 Apr 27;3:17018. doi: 10.1038/nrdp.2017.18. Review. PubMed PMID: 28447605.

137: McCrory P, Meeuwisse W, Dvořák J, Aubry M, Bailes J, Broglio S, Cantu RC, Cassidy D, Echemendia RJ, Castellani RJ, Davis GA, Ellenbogen R, Emery C, Engebretsen L, Feddermann-Demont N, Giza CC, Guskiewicz KM, Herring S, Iverson GL, Johnston KM, Kissick J, Kutcher J, Leddy JJ, Maddocks D, Makdissi M, Manley GT, McCrea M, Meehan WP, Nagahiro S, Patricios J, Putukian M, Schneider KJ, Sills A, Tator CH, Turner M, Vos PE. Consensus statement on concussion in sport-the 5(th) international conference on concussion in sport held in Berlin, October 2016. Br J Sports Med. 2017 Jun;51(11):838-847. doi: 10.1136/bjsports-2017-097699. Epub 2017 Apr 26. PubMed PMID: 28446457.

138: Echemendia RJ, Meeuwisse W, McCrory P, Davis GA, Putukian M, Leddy J, Makdissi M, Sullivan SJ, Broglio SP, Raftery M, Schneider K, Kissick J, McCrea M, Dvořák J, Sills AK, Aubry M, Engebretsen L, Loosemore M, Fuller G, Kutcher J, Ellenbogen R, Guskiewicz K, Patricios J, Herring S. The Sport Concussion Assessment Tool 5th Edition (SCAT5): Background and rationale. Br J Sports Med. 2017 Jun;51(11):848-850. doi: 10.1136/bjsports-2017-097506. Epub 2017 Apr 26. PubMed PMID: 28446453.

139: Echemendia RJ, Meeuwisse W, McCrory P, Davis GA, Putukian M, Leddy J, Makdissi M, Sullivan SJ, Broglio SP, Raftery M, Schneider K, Kissick J, McCrea M, Dvořák J, Sills AK, Aubry M, Engebretsen L, Loosemore M, Fuller G, Kutcher J, Ellenbogen R, Guskiewicz K, Patricios J, Herring S. The Concussion Recognition Tool 5th Edition (CRT5): Background and rationale. Br J Sports Med. 2017 Jun;51(11):870-871. doi: 10.1136/bjsports-2017-097508. Epub 2017 Apr 26. PubMed PMID: 28446450.

140: Velz J, Neidert MC, Bozinov O, Grotzer M, Kirschenbaum D, Rushing EJ. Isolated intracerebral Langerhans cell histiocytosis with multifocal lesions. Pediatr Blood Cancer. 2017 Nov;64(11). doi: 10.1002/pbc.26546. Epub 2017 Apr 24. PubMed PMID: 28436595.

141: Osterhoff G, Ryang YM, von Oelhafen J, Meyer B, Ringel F. Posterior Multilevel Instrumentation of the Lower Cervical Spine: Is Bridging the Cervicothoracic Junction Necessary? World Neurosurg. 2017 Jul;103:419-423. doi: 10.1016/j.wneu.2017.04.029. Epub 2017 Apr 17. PubMed PMID: 28427976.

142: Nieder C, De Ruysscher D, Gaspar LE, Guckenberger M, Mehta MP, Cheung P, Sahgal A. Reirradiation of recurrent node-positive non-small cell lung cancer after previous stereotactic radiotherapy for stage I disease : A multi-institutional treatment recommendation. Strahlenther Onkol. 2017 Jul;193(7):515-524. doi: 10.1007/s00066-017-1130-0. Epub 2017 Apr 19. PubMed PMID: 28424839.

143: Killeen T, Fortunati M, Myanger E, Rüfenacht D, Ryskeldiyev N, Akshulakov S, Cesnulis E. Symptomatic tension pneumocephalus following Palacos® cranioplasty in a shunted patient. Br J Neurosurg. 2017 Apr 19:1-2. doi: 10.1080/02688697.2017.1317718. [Epub ahead of print] PubMed PMID: 28421835.

144: Huber JL, Maier C, Mainka T, Mannil L, Vollert J, Homann HH. Recovery of mechanical detection thresholds after direct digital nerve repair versus conduit implantation. J Hand Surg Eur Vol. 2017 Sep;42(7):720-730. doi: 10.1177/1753193417699777. Epub 2017 Apr 10. PubMed PMID: 28395576.

145: Soffietti R, Abacioglu U, Baumert B, Combs SE, Kinhult S, Kros JM, Marosi C, Metellus P, Radbruch A, Villa Freixa SS, Brada M, Carapella CM, Preusser M, Le Rhun E, Rudà R, Tonn JC, Weber DC, Weller M. Diagnosis and treatment of brain metastases from solid tumors: guidelines from the European Association of Neuro-Oncology (EANO). Neuro Oncol. 2017 Feb 1;19(2):162-174. doi: 10.1093/neuonc/now241. PubMed PMID: 28391295; PubMed Central PMCID: PMC5620494.

146: Cenzato M, Boccardi E, Beghi E, Vajkoczy P, Szikora I, Motti E, Regli L, Raabe A, Eliava S, Gruber A, Meling TR, Niemela M, Pasqualin A, Golanov A, Karlsson B, Kemeny A, Liscak R, Lippitz B, Radatz M, La Camera A, Chapot R, Islak C, Spelle L, Debernardi A, Agostoni E, Revay M, Morgan MK. European consensus conference on unruptured brain AVMs treatment (Supported by EANS, ESMINT, EGKS, and SINCH). Acta Neurochir (Wien). 2017 Jun;159(6):1059-1064. doi: 10.1007/s00701-017-3154-8. Epub 2017 Apr 7. PubMed PMID: 28389875.

147: Weller M, Roth P, Sahm F, Burghardt I, Schuknecht B, Rushing EJ, Regli L, Lindemann JP, von Deimling A. Durable Control of Metastatic AKT1-Mutant WHO Grade 1 Meningothelial Meningioma by the AKT Inhibitor, AZD5363. J Natl Cancer Inst. 2017 Mar 1;109(3):1-4. doi: 10.1093/jnci/djw320. PubMed PMID: 28376212.

148: Baumann-Vogel H, Imbach LL, Sürücü O, Stieglitz L, Waldvogel D, Baumann CR, Werth E. The Impact of Subthalamic Deep Brain Stimulation on Sleep-Wake Behavior: A Prospective Electrophysiological Study in 50 Parkinson Patients. Sleep. 2017 May 1;40(5). doi: 10.1093/sleep/zsx033. PubMed PMID: 28369624.

149: Ineichen BV, Schneider MP, Hlavica M, Hagenbuch N, Linnebank M, Kessler TM. High EDSS can

predict risk for upper urinary tract damage in patients with multiple sclerosis. Mult Scler. 2018 Apr;24(4):529-534. doi: 10.1177/1352458517703801. Epub 2017 Apr 3. PubMed PMID: 28367674.

150: Dinevski N, Sarnthein J, Vasella F, Fierstra J, Pangalu A, Holzmann D, Regli L, Bozinov O. Postoperative Neurosurgical Infection Rates After Shared-Resource Intraoperative Magnetic Resonance Imaging: A Single-Center Experience with 195 Cases. World Neurosurg. 2017 Jul;103:275-282. doi: 10.1016/j.wneu.2017.03.093. Epub 2017 Mar 28. PubMed PMID: 28363833.

151: Hlavica M, Delparente A, Good A, Good N, Plattner PS, Seyedsadr MS, Schwab ME, Figlewicz DP, Ineichen BV. Intrathecal insulin-like growth factor 1 but not insulin enhances myelin repair in young and aged rats. Neurosci Lett. 2017 May 1;648:41-46. doi: 10.1016/j.neulet.2017.03.047. Epub 2017 Mar 29. PubMed PMID: 28363754.

152: Herren C, Beckmann A, Meyer S, Pishnamaz M, Mundt M, Sobottke R, Prescher A, Stoffel M, Markert B, Kobbe P, Pape HC, Eysel P, Siewe J. Biomechanical testing of a PEEK-based dynamic instrumentation device in a lumbar spine model. Clin Biomech (Bristol, Avon). 2017 May;44:67-74. doi: 10.1016/j.clinbiomech.2017.03.009. Epub 2017 Mar 18. PubMed PMID: 28342975.

153: Schneider KJ, Leddy JJ, Guskiewicz KM, Seifert T, McCrea M, Silverberg ND, Feddermann-Demont N, Iverson GL, Hayden A, Makdissi M. Rest and treatment/rehabilitation following sport-related concussion: a systematic review. Br J Sports Med. 2017 Jun;51(12):930-934. doi: 10.1136/bjsports-2016-097475. Epub 2017 Mar 24. Review. PubMed PMID: 28341726.

154: Joswig H, Haile SR, Hildebrandt G, Stienen MN. Residents' Learning Curve of Lumbar Transforaminal Epidural Steroid Injections. J Neurol Surg A Cent Eur Neurosurg. 2017 Sep;78(5):460-466. doi: 10.1055/s-0037-1599056. Epub 2017 Mar 24. PubMed PMID: 28340495.

155: Sahm F, Schrimpf D, Stichel D, Jones DTW, Hielscher T, Schefzyk S, Okonechnikov K, Koelsche C, Reuss DE, Capper D, Sturm D, Wirsching HG, Berghoff AS, Baumgarten P, Kratz A, Huang K, Wefers AK, Hovestadt V, Sill M, Ellis HP, Kurian KM, Okuducu AF, Jungk C, Drueschler K, Schick M, Bewerunge-Hudler M, Mawrin C, Seiz-Rosenhagen M, Ketter R, Simon M, Westphal M, Lamszus K, Becker A, Koch A, Schittenhelm J, Rushing EJ, Collins VP, Brehmer S, Chavez L, Platten M, Hänggi D, Unterberg A, Paulus W, Wick W, Pfister SM, Mittelbronn M, Preusser M, Herold-Mende C, Weller M, von Deimling A. DNA methylation-based classification and grading system for meningioma: a multicentre, retrospective analysis. Lancet Oncol. 2017 May;18(5):682-694. doi: 10.1016/S1470-2045(17)30155-9. Epub 2017 Mar 15. PubMed PMID: 28314689.

156: Gramatzki D, Kickingereder P, Hentschel B, Felsberg J, Herrlinger U, Schackert G, Tonn JC, Westphal M, Sabel M, Schlegel U, Wick W, Pietsch T, Reifenberger G, Loeffler M, Bendszus M, Weller M. Limited role for extended maintenance temozolomide for newly diagnosed glioblastoma. Neurology. 2017 Apr 11;88(15):1422-1430. doi: 10.1212/WNL.0000000000003809. Epub 2017 Mar 15. PubMed PMID: 28298550.

157: Stöckelmaier L, Renovanz M, König J, Nickel K, Hickmann AK, Mayer-Steinacker R, Nadji-Ohl M, Ganslandt O, Bullinger L, Wirtz CR, Coburger J. Therapy for Recurrent High-Grade Gliomas: Results of a Prospective Multicenter Study on Health-Related Quality of Life. World Neurosurg. 2017 Jun;102:383-399. doi: 10.1016/j.wneu.2017.02.061. Epub 2017 Mar 11. PubMed PMID: 28288921.

158: Joswig H, Jucker D, Lavalley A, Sprenger L, Gautschi OP, Hildebrandt G, Schaller K, Stienen MN. Shunts: Is Surgical Education Safe? World Neurosurg. 2017 Jun;102:117-122. doi: 10.1016/j.wneu.2017.02.128. Epub 2017 Mar 9. PubMed PMID: 28286273.

159: Basler L, Kroeze SG, Guckenberger M. SBRT for oligoprogressive oncogene addicted NSCLC. Lung

Cancer. 2017 Apr;106:50-57. doi: 10.1016/j.lungcan.2017.02.007. Epub 2017 Feb 6. Review. PubMed PMID: 28285694.

160: Schreglmann SR, Bauer R, Hägele-Link S, Bhatia KP, Natchev P, Wegener N, Lebeda A, Werner B, Martin E, Kägi G. Unilateral cerebellothalamic tract ablation in essential tremor by MRI-guided focused ultrasound. Neurology. 2017 Apr 4;88(14):1329-1333. doi: 10.1212/WNL.0000000000003795. Epub 2017 Mar 8. PubMed PMID: 28275083.

161: Klement RJ, Guckenberger M, Alheid H, Allgäuer M, Becker G, Blanck O, Boda-Heggemann J, Brunner T, Duma M, Gerum S, Habermehl D, Hildebrandt G, Lewitzki V, Ostheimer C, Papachristofilou A, Petersen C, Schneider T, Semrau R, Wachter S, Andratschke N. Stereotactic body radiotherapy for oligo-metastatic liver disease - Influence of pre-treatment chemotherapy and histology on local tumor control. Radiother Oncol. 2017 May;123(2):227-233. doi: 10.1016/j.radonc.2017.01.013. Epub 2017 Mar 6. PubMed PMID: 28274491.

162: Gerber C, Meyer DC, Flück M, Valdivieso P, von Rechenberg B, Benn MC, Wieser K. Muscle Degeneration Associated With Rotator Cuff Tendon Release and/or Denervation in Sheep. Am J Sports Med. 2017 Mar;45(3):651-658. doi: 10.1177/0363546516677254. Epub 2016 Dec 13. PubMed PMID: 28272927.

163: Nickel K, Renovanz M, König J, Stöckelmaier L, Hickmann AK, Nadji-Ohl M, Engelke J, Weimann E, Freudenstein D, Ganslandt O, Bullinger L, Wirtz CR, Coburger J. The patients' view: impact of the extent of resection, intraoperative imaging, and awake surgery on health-related quality of life in high-grade glioma patients-results of a multicenter cross-sectional study. Neurosurg Rev. 2018 Jan;41(1):207-219. doi: 10.1007/s10143-017-0836-x. Epub 2017 Mar 6. PubMed PMID: 28265818.

164: Giuliani M, Hope A, Guckenberger M, Mantel F, Peulen H, Sonke JJ, Belderbos J, Werner-Wasik M, Ye H, Grills IS. Stereotactic Body Radiation Therapy in Octo- and Nonagenarians for the Treatment of Early-Stage Lung Cancer. Int J Radiat Oncol Biol Phys. 2017 Jul 15;98(4):893-899. doi: 10.1016/j.ijrobp.2017.01.019. Epub 2017 Jan 9. PubMed PMID: 28258901.

165: Traenka C, Dougoud D, Simonetti BG, Metso TM, Debette S, Pezzini A, Kloss M, Grond-Ginsbach C, Majersik JJ, Worrall BB, Leys D, Baumgartner R, Caso V, Béjot Y, Compter A, Reiner P, Thijs V, Southerland AM, Bersano A, Brandt T, Gensicke H, Touzé E, Martin JJ, Chabriat H, Tatlisumak T, Lyrer P, Arnold M, Engelter ST; CADISP-Plus Study Group. Cervical artery dissection in patients ≥60 years: Often painless, few mechanical triggers. Neurology. 2017 Apr 4;88(14):1313-1320. doi: 10.1212/WNL.0000000000003788. Epub 2017 Mar 3. PubMed PMID: 28258079.

166: Emery CA, Black AM, Kolstad A, Martinez G, Nettel-Aguirre A, Engebretsen L, Johnston K, Kissick J, Maddocks D, Tator C, Aubry M, Dvořák J, Nagahiro S, Schneider K. What strategies can be used to effectively reduce the risk of concussion in sport? A systematic review. Br J Sports Med. 2017 Jun;51(12):978-984. doi: 10.1136/bjsports-2016-097452. Epub 2017 Mar 2. Review. PubMed PMID: 28254746.

167: Guckenberger M. SBRT in eight fractions. Int J Radiat Oncol Biol Phys. 2017 Mar 15;97(4):653. doi: 10.1016/j.ijrobp.2016.09.034. PubMed PMID: 28244401.

168: Joswig H, Zarnett L, Steven DA, Stienen MN. A Consult Is Just a Page Away: A Prospective Observational Study on the Impact of Jinxing on Call Karma in Neurosurgery. Can J Neurol Sci. 2017 Jul;44(4):420-423. doi: 10.1017/cjn.2016.457. Epub 2017 Feb 21. PubMed PMID: 28219453.

169: Neidert MC, Leske H, Frontzek K, Bode B, Capper D, Regli L, Rushing EJ. A 49-year old female with multiple extra-axial tumors. Brain Pathol. 2017 Mar;27(2):235-236. doi: 10.1111/bpa.12488.

PubMed PMID: 28217955.

170: van Lieshout JH, Dibué-Adjei M, Cornelius JF, Slotty PJ, Schneider T, Restin T, Boogaarts HD, Steiger HJ, Petridis AK, Kamp MA. An introduction to the pathophysiology of aneurysmal subarachnoid hemorrhage. Neurosurg Rev. 2018 Oct;41(4):917-930. doi: 10.1007/s10143-017-0827-y. Epub 2017 Feb 18. Review. PubMed PMID: 28215029.

171: Barrantes-Freer A, Engel AS, Rodríguez-Villagra OA, Winkler A, Bergmann M, Mawrin C, Kuempfel T, Pellkofer H, Metz I, Bleckmann A, Hernández-Durán S, Schippling S, Rushing EJ, Frank S, Glatzel M, Matschke J, Hartmann C, Reifenberger G, Müller W, Schildhaus HU, Brück W, Stadelmann C. Diagnostic red flags: steroid-treated malignant CNS lymphoma mimicking autoimmune inflammatory demyelination. Brain Pathol. 2018 Mar;28(2):225-233. doi: 10.1111/bpa.12496. Epub 2017 Apr 6. PubMed PMID: 28213912.

172: Burkhardt JK, Fierstra J, Esposito G, Baltsavias G, Bozinov O, Regli L. Rapid Documented Growth of Aneurysm Bleb Led to Rupture of an Incidental Intracranial Anterior Communicating Artery Aneurysm. J Neurol Surg A Cent Eur Neurosurg. 2017 Sep;78(5):521-524. doi: 10.1055/s-0037-1598053. Epub 2017 Feb 9. PubMed PMID: 28183143.

173: Tanadini-Lang S, Rieber J, Filippi AR, Fode MM, Streblow J, Adebahr S, Andratschke N, Blanck O, Boda-Heggemann J, Duma M, Eble MJ, Ernst I, Flentje M, Gerum S, Hass P, Henkenberens C, Hildebrandt G, Imhoff D, Kahl H, Klass ND, Krempien R, Lohaus F, Petersen C, Schrade E, Wendt TG, Wittig A, Høyer M, Ricardi U, Sterzing F, Guckenberger M. Nomogram based overall survival prediction in stereotactic body radiotherapy for oligo-metastatic lung disease. Radiother Oncol. 2017 May;123(2):182-188. doi: 10.1016/j.radonc.2017.01.003. Epub 2017 Feb 4. PubMed PMID: 28169042.

174: Backert L, Kowalewski DJ, Walz S, Schuster H, Berlin C, Neidert MC, Schemionek M, Brümmendorf TH, Vucinic V, Niederwieser D, Kanz L, Salih HR, Kohlbacher O, Weisel K, Rammensee HG, Stevanovic S, Walz JS. A meta-analysis of HLA peptidome composition in different hematological entities: entity-specific dividing lines and “pan-leukemia” antigens. Oncotarget. 2017 Jul 4;8(27):43915-43924. doi: 10.18632/oncotarget.14918. PubMed PMID: 28159928; PubMed Central PMCID: PMC5546449.

175: Hickmann AK, Gaida BJ, Reisch R. How I do it: The expanded trans/supraorbital approach for large space-occupying lesions of the anterior fossa. Acta Neurochir (Wien). 2017 May;159(5):881-887. doi: 10.1007/s00701-017-3082-7. Epub 2017 Feb 1. PubMed PMID: 28150037.

176: Kamp MA, Lieshout JHV, Dibué-Adjei M, Weber JK, Schneider T, Restin T, Fischer I, Steiger HJ. A Systematic and Meta-Analysis of Mortality in Experimental Mouse Models Analyzing Delayed Cerebral Ischemia After Subarachnoid Hemorrhage. Transl Stroke Res. 2017 Jun;8(3):206-219. doi: 10.1007/s12975-016-0513-3. Epub 2017 Jan 30. PubMed PMID: 28138916.

177: Schär RT, Sutter M, Mannion AF, Eggspühler A, Jeszenszky D, Fekete TF, Kleinstück F, Haschtmann D. Outcome of L5 radiculopathy after reduction and instrumented transforaminal lumbar interbody fusion of high-grade L5-S1 isthmic spondylolisthesis and the role of intraoperative neurophysiological monitoring. Eur Spine J. 2017 Mar;26(3):679-690. doi: 10.1007/s00586-017-4964-3. Epub 2017 Jan 31. PubMed PMID: 28138779.

178: Engler H, Brendt P, Wischermann J, Wegner A, Röhling R, Schoemberg T, Meyer U, Gold R, Peters J, Benson S, Schedlowski M. Selective increase of cerebrospinal fluid IL-6 during experimental systemic inflammation in humans: association with depressive symptoms. Mol Psychiatry. 2017 Oct;22(10):1448-1454. doi: 10.1038/mp.2016.264. Epub 2017 Jan 31. PubMed PMID: 28138158.

179: Burkhardt JK, Neidert MC, Stienen MN, Schöni D, Fung C, Roethlisberger M, Corniola MV, Bervini

D, Maduri R, Valsecchi D, Tok S, Schatlo B, Bijlenga P, Schaller K, Bozinov O, Regli L; Swiss SOS study group. Computed tomography angiography spot sign predicts intraprocedural aneurysm rupture in subarachnoid hemorrhage. Acta Neurochir (Wien). 2017 Jul;159(7):1305-1312. doi: 10.1007/s00701-016-3072-1. Epub 2017 Jan 27. PubMed PMID: 28127657.

180: Reisch R, Briner HR, Hickmann AK. How I do it: the mononostril endonasal transethmoidal-paraseptal approach. Acta Neurochir (Wien). 2017 Mar;159(3):453-457. doi: 10.1007/s00701-017-3075-6. Epub 2017 Jan 18. PubMed PMID: 28097430.

181: Berghoff AS, Wolpert F, Holland-Letz T, Koller R, Widhalm G, Gatterbauer B, Dieckmann K, Birner P, Bartsch R, Zielinski CC, Weller M, Preusser M. Combining standard clinical blood values for improving survival prediction in patients with newly diagnosed brain metastases-development and validation of the LabBM score. Neuro Oncol. 2017 Sep 1;19(9):1255-1262. doi: 10.1093/neuonc/now290. PubMed PMID: 28096493; PubMed Central PMCID: PMC5570252.

182: Ulrich NH, Burgstaller JM, Pichierri G, Wertli MM, Farshad M, Porchet F, Steurer J, Held U; LSOS Study Group. Decompression Surgery Alone Versus Decompression Plus Fusion in Symptomatic Lumbar Spinal Stenosis: A Swiss Prospective Multicenter Cohort Study With 3 Years of Follow-up. Spine (Phila Pa 1976). 2017 Sep 15;42(18):E1077-E1086. doi: 10.1097/BRS.0000000000002068. PubMed PMID: 28092340.

183: Czarzasta J, Habich A, Siwek T, Czapliński A, Maksymowicz W, Wojtkiewicz J. Stem cells for ALS: An overview of possible therapeutic approaches. Int J Dev Neurosci. 2017 Apr;57:46-55. doi: 10.1016/j.ijdevneu.2017.01.003. Epub 2017 Jan 11. Review. PubMed PMID: 28088365.

184: Ulrich NH, Burgstaller JM, Held U, Winklhofer S, Farshad M, Pichierri G, Steurer J, Porchet F; LSOS Study Group. The Influence of Single-level Versus Multilevel Decompression on the Outcome in Multisegmental Lumbar Spinal Stenosis: Analysis of the Lumbar Spinal Outcome Study (LSOS) Data. Clin Spine Surg. 2017 Dec;30(10):E1367-E1375. doi: 10.1097/BSD.0000000000000469. PubMed PMID: 28059949.

185: Abo Youssef N, Schneider MP, Mordasini L, Ineichen BV, Bachmann LM, Chartier-Kastler E, Panicker JN, Kessler TM. Cannabinoids for treating neurogenic lower urinary tract dysfunction in patients with multiple sclerosis: a systematic review and meta-analysis. BJU Int. 2017 Apr;119(4):515-521. doi: 10.1111/bju.13759. Epub 2017 Feb 23. Review. PubMed PMID: 28058780.

186: Kroeze SG, Fritz C, Hoyer M, Lo SS, Ricardi U, Sahgal A, Stahel R, Stupp R, Guckenberger M. Toxicity of concurrent stereotactic radiotherapy and targeted therapy or immunotherapy: A systematic review. Cancer Treat Rev. 2017 Feb;53:25-37. doi: 10.1016/j.ctrv.2016.11.013. Epub 2016 Dec 19. Review. PubMed PMID: 28056412.

187: Studerus-Germann AM, Engel DC, Stienen MN, von Ow D, Hildebrandt G, Gautschi OP. Three versus seven days to return-to-work after mild traumatic brain injury: a randomized parallel-group trial with neuropsychological assessment. Int J Neurosci. 2017 Oct;127(10):900-908. doi: 10.1080/00207454.2017.1278589. Epub 2017 Feb 2. PubMed PMID: 28042930.

188: Aichmair A, Burgstaller JM, Schwenkglenks M, Steurer J, Porchet F, Brunner F, Farshad M; LSOS Study Group. Cost-effectiveness of conservative versus surgical treatment strategies of lumbar spinal stenosis in the Swiss setting: analysis of the prospective multicenter Lumbar Stenosis Outcome Study (LSOS). Eur Spine J. 2017 Feb;26(2):501-509. doi: 10.1007/s00586-016-4937-y. Epub 2016 Dec 31. PubMed PMID: 28040872.

189: Zaccaria L, Tharakan SJ, Altermatt S. Hydroxyapatite ceramic implants for cranioplasty in

children: a single-center experience. Childs Nerv Syst. 2017 Feb;33(2):343-348. doi: 10.1007/s00381-016-3327-4. Epub 2016 Dec 24. PubMed PMID: 28013335.

190: Beckmann S, Nikolic N, Denhaerynck K, Binet I, Koller M, Boely E, De Geest S; Psychosocial Interest Group, Swiss Transplant Cohort Study. Evolution of body weight parameters up to 3 years after solid organ transplantation: The prospective Swiss Transplant Cohort Study. Clin Transplant. 2017 Mar;31(3). doi: 10.1111/ctr.12896. Epub 2017 Jan 24. PubMed PMID: 28008650.

191: Weller M, Holland EC, Hambardzumyan D. Reply: Corticosteroids compromise survival in glioblastoma in part through their elevation of blood glucose levels. Brain. 2017 Mar 1;140(3):e17. doi: 10.1093/brain/aww325. PubMed PMID: 28007996.

192: Stienen MN, Smoll NR, Joswig H, Snagowski J, Corniola MV, Schaller K, Hildebrandt G, Gautschi OP. Influence of the mental health status on a new measure of objective functional impairment in lumbar degenerative disc disease. Spine J. 2017 Jun;17(6):807-813. doi: 10.1016/j.spinee.2016.12.004. Epub 2016 Dec 14. PubMed PMID: 27988343.

193: Pomares FB, Funck T, Feier NA, Roy S, Daigle-Martel A, Ceko M, Narayanan S, Araujo D, Thiel A, Stikov N, Fitzcharles MA, Schweinhardt P. Histological Underpinnings of Grey Matter Changes in Fibromyalgia Investigated Using Multimodal Brain Imaging. J Neurosci. 2017 Feb 1;37(5):1090-1101. doi: 10.1523/JNEUROSCI.2619-16.2016. Epub 2016 Dec 16. PubMed PMID: 27986927.

194: Oertel MF, Schüpbach WM, Ghika JA, Stieglitz LH, Fiechter M, Kaelin-Lang A, Raabe A, Pollo C. Combined thalamic and subthalamic deep brain stimulation for tremor-dominant Parkinson's disease. Acta Neurochir (Wien). 2017 Feb;159(2):265-269. doi: 10.1007/s00701-016-3044-5. Epub 2016 Dec 13. PubMed PMID: 27966027.

195: Neidert MC, Sprenger M, Mader M, Esposito G, Hosp JA, Bozinov O, Regli L, Burkhardt JK. A High-Resolution Analysis on the Meteorological Influences on Spontaneous Intracerebral Hemorrhage Incidence. World Neurosurg. 2017 Feb;98:695-703.e19. doi: 10.1016/j.wneu.2016.12.006. Epub 2016 Dec 10. PubMed PMID: 27965078.

196: Guo DC, Duan XY, Regalado ES, Mellor-Crummey L, Kwartler CS, Kim D, Lieberman K, de Vries BBA, Pfundt R, Schinzel A, Kotzot D, Shen X, Yang ML; University of Washington Center for Mendelian Genomics, Bamshad MJ, Nickerson DA, Gornik HL, Ganesh SK, Braverman AC, Grange DK, Milewicz DM. Loss-of-Function Mutations in YY1AP1 Lead to Grange Syndrome and a Fibromuscular Dysplasia-Like Vascular Disease. Am J Hum Genet. 2017 Jan 5;100(1):21-30. doi: 10.1016/j.ajhg.2016.11.008. Epub 2016 Dec 8. PubMed PMID: 27939641; PubMed Central PMCID: PMC5223026.

197: Wälchli T, Ulmann-Schuler A, Hintermüller C, Meyer E, Stampanoni M, Carmeliet P, Emmert MY, Bozinov O, Regli L, Schwab ME, Vogel J, Hoerstrup SP. Nogo-A regulates vascular network architecture in the postnatal brain. J Cereb Blood Flow Metab. 2017 Feb;37(2):614-631. doi: 10.1177/0271678×16675182. Epub 2016 Nov 13. PubMed PMID: 27927704; PubMed Central PMCID: PMC5381465.

198: Stienen MN, Schaller K, Cock H, Lisnic V, Regli L, Thomson S. eLearning resources to supplement postgraduate neurosurgery training. Acta Neurochir (Wien). 2017 Feb;159(2):325-337. doi: 10.1007/s00701-016-3042-7. Epub 2016 Dec 5. PubMed PMID: 27921190.

199: Walker JH, Hackenberg A, Bozinov O, Berger C, Scheer I, Grotzer MA, Gerber NU. Ommaya reservoir “off-duty” causing major late-onset complications in a child with medulloblastoma. Pediatr Blood Cancer. 2017 Jun;64(6). doi: 10.1002/pbc.26384. Epub 2016 Dec 1. PubMed PMID: 27905687.

200: Giuliani ME, Hope A, Mangona V, Guckenberger M, Mantel F, Peulen H, Sonke JJ, Belderbos J, Werner-Wasik M, Ye H, Grills IS. Predictors and Patterns of Regional Recurrence Following Lung SBRT: A Report From the Elekta Lung Research Group. Clin Lung Cancer. 2017 Mar;18(2):162-168. doi: 10.1016/j.cllc.2016.10.006. Epub 2016 Oct 26. PubMed PMID: 27876604.

201: Takemoto M, Boissière L, Vital JM, Pellisé F, Perez-Grueso FJS, Kleinstück F, Acaroglu ER, Alanay A, Obeid I. Are sagittal spinopelvic radiographic parameters significantly associated with quality of life of adult spinal deformity patients? Multivariate linear regression analyses for pre-operative and short-term post-operative health-related quality of life. Eur Spine J. 2017 Aug;26(8):2176-2186. doi: 10.1007/s00586-016-4872-y. Epub 2016 Nov 18. PubMed PMID: 27864681.

202: Rieber J, Abbassi-Senger N, Adebahr S, Andratschke N, Blanck O, Duma M, Eble MJ, Ernst I, Flentje M, Gerum S, Hass P, Henkenberens C, Hildebrandt G, Imhoff D, Kahl H, Klass ND, Krempien R, Lohaus F, Lohr F, Petersen C, Schrade E, Streblow J, Uhlmann L, Wittig A, Sterzing F, Guckenberger M. Influence of Institutional Experience and Technological Advances on Outcome of Stereotactic Body Radiation Therapy for Oligometastatic Lung Disease. Int J Radiat Oncol Biol Phys. 2017 Jul 1;98(3):511-520. doi: 10.1016/j.ijrobp.2016.09.026. Epub 2016 Sep 26. PubMed PMID: 27843031.

203: Redmond KJ, Lo SS, Soltys SG, Yamada Y, Barani IJ, Brown PD, Chang EL, Gerszten PC, Chao ST, Amdur RJ, De Salles AA, Guckenberger M, Teh BS, Sheehan J, Kersh CR, Fehlings MG, Sohn MJ, Chang UK, Ryu S, Gibbs IC, Sahgal A. Consensus guidelines for postoperative stereotactic body radiation therapy for spinal metastases: results of an international survey. J Neurosurg Spine. 2017 Mar;26(3):299-306. doi: 10.3171/2016.8.SPINE16121. Epub 2016 Nov 11. PubMed PMID: 27834628; PubMed Central PMCID: PMC5551391.

204: Traber GL, Weber KP, Sabah M, Keane PA, Plant GT. Enhanced Depth Imaging Optical Coherence Tomography of Optic Nerve Head Drusen: A Comparison of Cases with and without Visual Field Loss. Ophthalmology. 2017 Jan;124(1):66-73. doi: 10.1016/j.ophtha.2016.09.022. Epub 2016 Nov 3. PubMed PMID: 27817914.

205: Frueh FS, Ho M, Schiller A, Ducommun P, Manoliu A, Andreisek G, Calcagni M, Giovanoli P. Magnetic Resonance Neurographic and Clinical Long-Term Results After Oberlin's Transfer for Adult Brachial Plexus Injuries. Ann Plast Surg. 2017 Jan;78(1):67-72. PubMed PMID: 27801698.

206: Joswig H, Neff A, Ruppert C, Hildebrandt G, Stienen MN. The value of short-term pain relief in predicting the 1-month outcome of 'indirect' cervical epidural steroid injections. Acta Neurochir (Wien). 2017 Feb;159(2):291-300. doi: 10.1007/s00701-016-2997-8. Epub 2016 Oct 28. PubMed PMID: 27796650.

207: Serra C, Türe U, Krayenbühl N, Şengül G, Yaşargil DC, Yaşargil MG. Topographic Classification of the Thalamus Surfaces Related to Microneurosurgery: A White Matter Fiber Microdissection Study. World Neurosurg. 2017 Jan;97:438-452. doi: 10.1016/j.wneu.2016.09.101. Epub 2016 Oct 7. PubMed PMID: 27725299.

208: Avila EK, Chamberlain M, Schiff D, Reijneveld JC, Armstrong TS, Ruda R, Wen PY, Weller M, Koekkoek JA, Mittal S, Arakawa Y, Choucair A, Gonzalez-Martinez J, MacDonald DR, Nishikawa R, Shah A, Vecht CJ, Warren P, van den Bent MJ, DeAngelis LM. Seizure control as a new metric in assessing efficacy of tumor treatment in low-grade glioma trials. Neuro Oncol. 2017 Jan;19(1):12-21. doi: 10.1093/neuonc/now190. Epub 2016 Sep 20. Review. PubMed PMID: 27651472; PubMed Central PMCID: PMC5193028.

209: Hickmann AK, Hechtner M, Nadji-Ohl M, Janko M, Reuter AK, Kohlmann K, Haug M, Grüninger S,

Deininger M, Ganslandt O, König J, Wirtz CR, Coburger J, Renovanz M. Evaluating patients for psychosocial distress and supportive care needs based on health-related quality of life in primary brain tumors: a prospective multicenter analysis of patients with gliomas in an outpatient setting. J Neurooncol. 2017 Jan;131(1):135-151. doi: 10.1007/s11060-016-2280-0. Epub 2016 Sep 16. PubMed PMID: 27638638.

210: Doggweiler R, Whitmore KE, Meijlink JM, Drake MJ, Frawley H, Nordling J, Hanno P, Fraser MO, Homma Y, Garrido G, Gomes MJ, Elneil S, van de Merwe JP, Lin ATL, Tomoe H. A standard for terminology in chronic pelvic pain syndromes: A report from the chronic pelvic pain working group of the international continence society. Neurourol Urodyn. 2017 Apr;36(4):984-1008. doi: 10.1002/nau.23072. Epub 2016 Aug 26. PubMed PMID: 27564065.

211: Winklhofer S, Held U, Burgstaller JM, Finkenstaedt T, Bolog N, Ulrich N, Steurer J, Andreisek G, Del Grande F. Degenerative lumbar spinal canal stenosis: intra- and inter-reader agreement for magnetic resonance imaging parameters. Eur Spine J. 2017 Feb;26(2):353-361. doi: 10.1007/s00586-016-4667-1. Epub 2016 Jun 22. PubMed PMID: 27334492.

212: Schwerd T, Pandey S, Yang HT, Bagola K, Jameson E, Jung J, Lachmann RH, Shah N, Patel SY, Booth C, Runz H, Düker G, Bettels R, Rohrbach M, Kugathasan S, Chapel H, Keshav S, Elkadri A, Platt N, Muise AM, Koletzko S, Xavier RJ, Marquardt T, Powrie F, Wraith JE, Gyrd-Hansen M, Platt FM, Uhlig HH. Impaired antibacterial autophagy links granulomatous intestinal inflammation in Niemann-Pick disease type C1 and XIAP deficiency with NOD2 variants in Crohn's disease. Gut. 2017 Jun;66(6):1060-1073. doi: 10.1136/gutjnl-2015-310382. Epub 2016 Mar 7. PubMed PMID: 26953272; PubMed Central PMCID: PMC5532464.

213: Fierstra J, Burkhardt JK, van Niftrik CH, Piccirelli M, Pangalu A, Kocian R, Neidert MC, Valavanis A, Regli L, Bozinov O. Blood oxygen-level dependent functional assessment of cerebrovascular reactivity: Feasibility for intraoperative 3 Tesla MRI. Magn Reson Med. 2017 Feb;77(2):806-813. doi: 10.1002/mrm.26135. Epub 2016 Feb 26. PubMed PMID: 26918794.

214: Kluge K, Larenza Menzies MP, Kloeppel H, Pearce SG, Bettschart-Wolfensberger R, Kutter AP. Femoral and sciatic nerve blockades and incision site infiltration in rabbits undergoing stifle joint arthrotomy. Lab Anim. 2017 Feb;51(1):54-64. doi: 10.1177/0023677215622734. Epub 2016 Jul 9. PubMed PMID: 26763491.

215: Schurr J, Coras R, Rössler K, Pieper T, Kudernatsch M, Holthausen H, Winkler P, Woermann F, Bien CG, Polster T, Schulz R, Kalbhenn T, Urbach H, Becker A, Grunwald T, Huppertz HJ, Gil-Nagel A, Toledano R, Feucht M, Mühlebner A, Czech T, Blümcke I. Mild Malformation of Cortical Development with Oligodendroglial Hyperplasia in Frontal Lobe Epilepsy: A New Clinico-Pathological Entity. Brain Pathol. 2017 Jan;27(1):26-35. doi: 10.1111/bpa.12347. Epub 2016 Feb 22. PubMed PMID: 26748554.

In 2013, Sarnthein et al., have installed a patient registry focused on cranial neurosurgery. Surgeries are characterized by indication, treatment, location and other specific neurosurgical parameters. Preoperative state and postoperative outcome are recorded prospectively using neurological and sociological scales. Complications are graded by their severity in a therapy-oriented complication score system (Clavien Dindo Grading system, CDG). Results are presented at the monthly clinical staff meeting.

Data acquisition compatible with the clinic workflow permitted to include all eligible patients into the registry. Until December 2015, they have registered 2880 patients that were treated in 3959

surgeries and 8528 consultations. Since the registry is fully operational (August 2014), they have registered 325 complications on 1341 patient discharge forms (24%). In 64% of these complications, no or only pharmacological treatment was required. At discharge, there was a clear correlation of the severity of the complication and the Karnofsky Performance Status (KPS, ρ = -0.3, slope -6 KPS percentage points per increment of CDG) and the length of stay (ρ = 0.4, slope 1.5 days per increment of CDG).

While the therapy-oriented complication scores correlate reasonably well with outcome and length of stay, they do not account for new deficits that cannot be treated. Outcome grading and complication severity grading thus serve a complimentary purpose. Overall, the registry serves to streamline and to complete information flow in the clinic, to identify complication rates and trends early for the internal quality monitoring and communication with patients. Conversely, the registry influences clinical practice in that it demands rigorous documentation and standard operating procedures [1)].

A population study of patients with glioma diagnosed between 1980 and 1994 in the Canton of Zurich in Switzerland confirmed the overall poor prognosis of glioblastoma. To explore changes in outcome, registry data were reevaluated for patients diagnosed between 2005 and 2009.

Patients with glioblastoma who were diagnosed between 2005 and 2009 were identified by the Zurich and Zug Cancer Registry. The prognostic significance of epidemiological and clinical data, isocitrate dehydrogenase 1 (IDH1)R132H mutation status, and O6 methylguanine DNA methyltransferase (MGMT) promoter methylation status was analyzed using the Kaplan-Meier method and the Cox proportional hazards model.

A total of 264 patients with glioblastoma were identified, for an annual incidence of 3.9 compared with the previous incidence of 3.7. The mean age of the patients at the time of diagnosis was 59.5 years in the current cohort compared with 61.3 years previously. The overall survival (OS) rate was 46.4% at 1 year, 22.5% at 2 years, and 14.4% at 3 years in the current study compared with 17.7% at 1 year, 3.3% at 2 years, and 1.2% at 3 years as reported previously. The median OS for all patients with glioblastoma was 11.5 months compared with 4.9 months in the former patient population. The median OS was 1.9 months for best supportive care, 6.2 months for radiotherapy alone, 6.7 months for temozolomide alone, and 17.0 months for radiotherapy plus temozolomide. Multivariate analysis revealed age, Karnofsky performance score, extent of tumor resection, first-line treatment, year of diagnosis, and MGMT promoter methylation status were associated with survival in patients with IDH1R132H -nonmutant glioblastoma.

The OS of patients newly diagnosed with glioblastoma in the Canton of Zurich in Switzerland markedly improved from 1980 through 1994 to 2005 through 2009. Cancer 2016. © 2016 American Cancer Society [2)].

1)
Sarnthein J, Stieglitz L, Clavien PA, Regli L. A Patient Registry to Improve Patient Safety: Recording General Neurosurgery Complications. PLoS One. 2016 Sep 26;11(9):e0163154. doi: 10.1371/journal.pone.0163154. eCollection 2016. PubMed PMID: 27669157.
2)
Gramatzki D, Dehler S, Rushing EJ, Zaugg K, Hofer S, Yonekawa Y, Bertalanffy H, Valavanis A, Korol D, Rohrmann S, Pless M, Oberle J, Roth P, Ohgaki H, Weller M. Glioblastoma in the Canton of Zurich, Switzerland revisited: 2005 to 2009. Cancer. 2016 Apr 18. doi: 10.1002/cncr.30023. [Epub ahead of print] PubMed PMID: 27088883.