

CONTENTS

XVIII–XIX **UPCOMING EVENTS:** *Max Jägersberg*

EDITOR'S LETTER

XX Dogma, Cost, and Health Care: *Ed Benzel*

LETTERS TO THE EDITOR

373 Virtual Line Between Anterior Clinoid Process and Tuberculum Sellae on 3-Dimensional Computed Tomography Angiography to Differentiate Cavernous Sinus Aneurysms from Intradural Aneurysms: *Sanford P.C. Hsu and Chih-Hsiang Liao*

374 Letter to the Editor Regarding "The Likelihood of Remnant Nonfunctioning Pituitary Adenomas Shrinking Is Associated with the Lesion's Blood Supply Pattern": *Mengmeng Wang, Peizhi Zhou, Xueyou Liu, Shu Jiang*

375 Letter to the Editor Regarding "Evaluation of Continuous Irrigation and Drainage with a Double-Cavity Sleeve Tube to Treat Brain Abscess": *Mengmeng Wang, Rende Zhang, Hongwei Sun*

376 Probiotics: Novel Addition to Antiglioma Armamentarium: *Parisa Derakhshan, Nima Derakhshan, Arash Saffarian, Mousa Taghipour*

377 In Reply to the Letter to the Editor "Probiotics: Novel Addition to Antiglioma Armamentarium": *Christoph Schwartz, Alexander Romagna, Peter A. Winkler*

378 – 379 Letter to the Editor Regarding "Endovascular Thrombectomy Alone versus Combined with Intravenous Thrombolysis": *Rakan Bokhari, Saleh Baeesa, Khalid Bajunaid, Oliver Lasry*

380 – 382 Hemorrhagic Complications of Arachnoid Cysts: When, Why, and Who?: *Mehmet Emin Adin*

383 – 384 Postoperative Residue Pneumocephalus Progress to Tension After Observation for 9 Years: *Hsu Shu-Shong, Hsu Huang-I, Hsing-Lin Lin*

385 In Reply to "Postoperative Residue Pneumocephalus Progress to Tension After Observation for 9 Years": *Hussam Metwali, Venelin Gerganov, Madjid Samii*

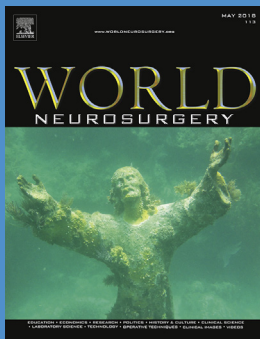
386 Letter to the Editor Regarding "Symptomatic Brainstem Cavernoma of Elderly Patients: Timing and Strategy of Surgical Treatment: Two Case Reports and Review of the Literature": *Si Zhang, Yanchao Wang, Wenke Liu, Xuhui Hui, Chao You*

387 In Reply to the Letter to the Editor Regarding "Symptomatic Brainstem Cavernoma of Elderly Patients: Timing and Strategy of Surgical Treatment: Two Case Reports and Review of the Literature": *Tetsuya Negoto, Shota Terachi, Yuko Baba, Shin Yamashita, Terukazu Kuramoto, Motohiro Morioka*

388 Letter to the Editor Regarding "Fluorescein-Guided Resection of Intramedullary Spinal Cord Tumors: Results from a Preliminary, Multicentric, Retrospective Study": *Pierre-Jean Le Reste*

389 In Reply to the Letter to the Editor Regarding "Fluorescein-Guided Resection of Intramedullary Spinal Cord Tumors: Results from a Preliminary, Multicentric, Retrospective Study": *Francesco Acerbi, Camilla de Laurentis, Morgan Broggi, Talat Kiris, Karl-Michael Schebesch*

390 – 391 Relationship Between Perforator Infarction and Patient Outcomes After Surgical Treatment of Ruptured Anterior Communicating Artery Aneurysms: *Shunji Mugikura, Miki Fujimura, Shoki Takahashi, Kei Takase*



ON THE COVER

Deepak Awasthi, M.D. "Underwater Jesus: This photo depicts Christ of the Abyss. It is the 3rd bronze statue from the original mold and it was placed underwater in 1965. The statue depicted is about 25 feet underwater and about 6 miles east of Key Largo, Florida, USA near Dry Rocks in the John Pennekamp Coral Reef State Park. The photo was taken during a recent snorkeling trip."

Continued on page II

Continued from page I

- 392 In Reply to “Relationship Between Perforator Infarction and Patient Outcomes After Surgical Treatment of Ruptured Anterior Communicating Artery Aneurysms”: *Hitoshi Fukuda, Yu Yamamoto, Benjamin Lo*
- 393 – 394 Defining the Pros and Cons of AIS Surgery: Bringing Truth to the Neurosurgery Community and the Public: *Jun Zhang, Chi-Jiao Ma, Zhi-Heng Liu, Hai-Qiang Wang*
- 395 In Reply to “Defining the Pros and Cons of AIS Surgery: Bringing Truth to the Neurosurgery Community and the Public”: *Seung-Jae Hyun, Sanghyun Han, Yongjung J. Kim*
- 396 Feasibility of Using Internal Thoracic Artery as Donor Vessel in High-Flow Intracranial Bypass Surgery: *Long Wang, Xiang'en Shi, Hai Qian*
- 397 In Reply to “Feasibility of Using Internal Thoracic Artery as Donor Vessel in High-Flow Intracranial Bypass Surgery”: *Richard Shane Tubbs, Paul Joonkoo Choi, Joe Iwanaga, Marios Loukas*
- 398 In Reply to the Letter to the Editor Regarding “Aneurysm Clip Compression Technique in the Surgery of Aneurysms With Hard/Calcified Neck” : *Servet Inci and Atilla Akbay*

NEWS AND OPINIONS

- 267 – 268 Nonopioids Prove Noninferior for Chronic Pain: Results of SPACE Trial: *John Paul G. Kolcun, G. Damian Brusko, Michael Y. Wang*

BOOK REVIEW: Edited by William J. Mack

- 223 – 224 Rhoton’s Atlas of Head, Neck, and Brain: 2D and 3D Images: *Adam C. Lieber and Christopher P. Kellner*

WORLD NEUROSURGERY FOCUS ARTICLE

- 399 – 403 Necessity of Repeat Computed Tomography Imaging in Isolated Mild Traumatic Subarachnoid Hemorrhage: *Ashwath Kumar, Anthony Alvarado, Kushal Shah, Paul M. Arnold*

PERSPECTIVES

- 47 – 48 Endoscopic Neurosurgery: Surgeon Versus Machine: *Nimer Adeb, Jai Deep Thakur, Bharat Guthikonda*
- 140 – 141 Opening New Window in Upper Clival Region: Results from Anatomic Study: *Giovanni Grasso and Alessandro Landi*
- 204 – 205 Improve the Accuracy of Neurosurgery Studies: Join the STROBE Initiative: *Mark A. Spatola*
- 254 – 256 Medical and Surgical Treatment of Endemic Mycotic Spinal Osteomyelitis: *Ryan C. Hoffer and G. Alexander Jones*
- 404 – 405 No Need for Repeat Imaging in Patients with Mild Traumatic Subarachnoid Hemorrhage without Clinical Progression: *Robert D. Ecker*
- 406 – 408 “Big Little Challenges”: *James R. van Dellen*
- 409 – 410 Do We Really Need to Repeat Computed Tomography Imaging in Isolated Mild Traumatic Subarachnoid Hemorrhage?: *Oded Goren, Christoph J. Griessenauer, Clemens M. Schirmer*

DOING MORE WITH LESS

- 67 – 72 Technical Aspects of Awake Craniotomy with Mapping for Brain Tumors in a Limited Resource Setting: *Rafael Teixeira Magalhaes Leal, Bruno Mendonça Barcellos, Jose Alberto Landeiro*

- 198 — 203 Early Cranioplasty Benefits Patients with Obvious Bilateral Frontotemporal Bone Window Collapse After Decompressive Craniectomy: *Haifeng Zhu, Chengfu Ji, Zhouming Shen, Zhengxiang Luo, Lei Shi*

HISTORICAL VIGNETTES

- 14 — 25 From Hypothermia to Cephalosomatic Anastomoses: The Legacy of Robert White (1926–2010) at Case Western Reserve University of Cleveland: *Sunil Manjila, Vilakshan Alambyan, Gagandeep Singh, Priyanka Satish, Robert T. Geertman*
- 78 — 81 Neurosurgery on a Pregnant Woman with Post Mortem Fetal Extrusion: An Unusual Case from Medieval Italy: *Alba Pasini, Vanessa Samantha Manzon, Xabier Gonzalez-Muro, Emanuela Gualdi-Russo*

LITERATURE REVIEWS

- 1 — 13 Primary Intracranial Angioliomyomas as Rare, Nonmalignant, and Distinct Neoplastic Entities: A Series of 8 Cases and a Literature Review: *Cheng-Bei Li, Ming-Guo Xie, Jun-Peng Ma, Liang Wang, Shu-Yu Hao, Li-Wei Zhang, Wang Jia, Gui-Jun Jia, Jun-Ting Zhang, Da Li, Huan Li, Zhen Wu*
- 110 — 124 Intracranial Hypertension and Cerebral Autoregulation: A Systematic Review and Meta-Analysis: *Marcelo de-Lima-Oliveira, Angela S.M. Salinet, Ricardo C. Nogueira, Daniel S. de Azevedo, Wellingson S. Paiva, Manoel J. Teixeira, Edson Bor-Seng-Shu*
- 129 — 134 Atypical Teratoid/Rhabdoid Tumor After In Vitro Fertilization: Illustrative Case Report and Systematic Literature Review: *Adomas Bunevicius, Algimantas Matukevicius, Vytenis Deltuva, Inga Gudnaviciene, Darius Pranys, Arimantas Tamasauskas*
- 153 — 162 Dose-Dependent Effects of Statins for Patients with Aneurysmal Subarachnoid Hemorrhage: Meta-Regression Analysis: *Minh-Son To, Shivesh Prakash, Santosh I. Poonnoose, Shailesh Bihari*
- 163 — 179 Minimally Invasive Alternative Approaches to Pterional Craniotomy: A Systematic Review of the Literature: *Jonathan Rychen, Davide Croci, Michel Roethlisberger, Erez Nossek, Matthew Potts, Ivan Radovanovic, Howard Riina, Luigi Mariani, Raphael Guzman, Daniel W. Zumofen*
- 225 — 231 Rate of Adjacent Segment Degeneration of Cervical Disc Arthroplasty Versus Fusion Meta-Analysis of Randomized Controlled Trials: *Jiaquan Luo, Hongbo Wang, Jun Peng, Zhongyuan Deng, Zhen Zhang, Shixue Liu, Daidong Wang, Ming Gong, Shuo Tang*
- 244 — 248 Dural Repair in Cranial Surgery Is Associated with Moderate Rates of Complications with Both Autologous and Nonautologous Dural Substitutes: *Daniel Azzam, Prasanth Romiyo, Thien Nguyen, John P. Sheppard, Yasmine Alkhalid, Carlito Lagman, Giyarpuram N. Prashant, Isaac Yang*
- 269 — 275 A Systematic Review and Meta-Analysis on Economic Comparison Between Endovascular Coiling Versus Neurosurgical Clipping for Ruptured Intracranial Aneurysms: *Xiaoxi Zhang, Li Li, Bo Hong, Yi Xu, Yuan Liu, Qinghai Huang, Jianmin Liu*
- 280 — 292 Current Perspectives in Imaging Modalities for the Assessment of Unruptured Intracranial Aneurysms: A Comparative Analysis and Review: *Nefize Turan, Robert A. Heider, Anil K. Roy, Brandon A. Miller, Mark E. Mullins, Daniel L. Barrow, Jonathan Grossberg, Gustavo Pradilla*
- 320 — 332 The History and Evolution of Internal Maxillary Artery Bypass: *Long Wang, Li Cai, Shuaibin Lu, Hai Qian, Michael T. Lawton, Xiang'en Shi*
- 333 — 347 Potential Uses of Isolated Toxin Peptides in Neuropathic Pain Relief: A Literature Review: *Mousa K. Hamad, Kevin He, Hael F. Abdulrazeq, Ali M. Mustafa, Robert Luceri, Naveed Kamal, Mohsin Ali, Jonathan Nakhla, Mohammad M. Herzallah, Antonios Mammis*

Continued on page IV

Continued from page III

- 348 – 356 Effect and Feasibility of Endoscopic Surgery in Spontaneous Intracerebral Hemorrhage: A Systematic Review and Meta-Analysis: *Zhong Yao, Xin Hu, Chao You, Min He*
- 357 – 365 Efficacy of Posterior Fossa Decompression with Duraplasty for Patients with Chiari Malformation Type I: A Systematic Review and Meta-Analysis: *Zhi Chai, Xiaoming Xue, Huijie Fan, Lin Sun, Hongyu Cai, Yanmiao Ma, Cungen Ma, Ran Zhou*

TECHNICAL NOTES

- 26 – 32 Endovascular Patch Embolization for Blood Blister–Like Aneurysms in Dorsal Segment of Internal Carotid Artery: *Xudong Hao, Guilin Li, Jian Ren, Jingwei Li, Chuan He, Hong-Qi Zhang*
- 49 – 57 Relaxing Sphenoidal Slit Incision to Extend the Anterior and Posterior Reach of Pedicled Nasoseptal Flaps During Endoscopic Skull Base Reconstruction of Transcribriform Defects: Technical Note and Results in 20 Patients: *James K. Liu, Zachary S. Mendelson, Gurkirat Kohli, Jean Anderson Eloy*
- 125 – 128 Simple New Screw Insertion Technique without Extraction for Broken Pedicle Screws: *Jin-Sang Kil and Jong-Tae Park*
- 188 – 194 The Nuchal Lines as Anatomic Landmarks to Dissect the Muscles in the Far Lateral Approach: *Alvaro Campero, Juan F. Villalonga, Ramiro Lopez Elizalde, Pablo Ajler*
- 249 – 253 Intraoperative Hypoglossal Nerve Mapping During Carotid Endarterectomy: Technical Note: *Atsuhiko Kojima, Isako Saga, Mami Ishikawa*
- 257 – 260 Balloon Bridge: Novel Technique for Reaccessing Carotid Artery Stent: *David Rafael Santiago-Dieppa, Jeffrey A. Steinberg, Michael G. Brandel, Robert C. Rennert, Vincent J. Cheung, Arvin Raj Wali, Scott Eric Olson, Alexander Arash Khalessi, J. Scott Pannell*

CLINICAL IMAGES

- 82 – 85 Optic Nerve Atrophy Due to Long-Standing Compression by Planum Sphenoidale Meningioma: *Alberto Di Somma, Ariel Matias Kaen, Eugenio Cárdenas Ruiz-Valdepeñas, Luigi Maria Cavallo*
- 91 – 93 Cyst with a Twist! Diagnostic Dilemma: *Abhay K. Kattepur and Aliasgar Moiyadi*
- 94 – 95 Frontal Sinus Osteoma Accompanied by Intracranial Mucocele and Local Hyperostosis Frontalis Interna: *Yang Yang, Liang Wang, Zhen Wu*
- 96 – 97 Rope Jumping—Induced Traumatic Compression Fractures: the Underestimated Danger of Repetitive Axial Load Forces: *Tobias A. Mattei*
- 108 – 109 Hypoplastic Straight Sinus with Persistent Falcine Sinus in Adult with Sinus Pericranii: *Lukas Andereggen and Rajeev K. Verma*
- 206 – 207 Delayed Coil Migration After Treatment of Traumatic Pseudoaneurysm: *Ting Wang, Changwei Zhang, Xiaodong Xie*
- 296 – 297 Recanalized Left Internal Carotid Artery Bifurcation Aneurysm with Adherent Thrombus at Aneurysm Neck and M1 Origin Diagnosed on 2-Dimensional Angiography—Cause of Embolic Stroke: *Anshu Mahajan, Gaurav Goel, Biplab Das, Karanjit Singh Narang*
- 312 – 315 Lessons to Be Remembered from a Dural Arteriovenous Fistula Mimicking Medulla and High Cervical Cord Glioma: *Florian Bernard, Jean-Michel Lemée, Rogatien Faguer, Henri-Dominique Fournier*

CASE REPORTS

- 33 — 36 “White Cord Syndrome” of Acute Hemiparesis After Posterior Cervical Decompression and Fusion for Chronic Cervical Stenosis: *Prince Antwi, Ryan Grant, Gregory Kuzmik, Khalid Abbed*
- 37 — 39 “Suspended Posterior Tubercle of Atlas” with Atlantoaxial Dislocation: *Sushanta Sahoo, Pravin Salunke, Mdhivanan Karthigeyan, Rekhapalli Rajasekhar*
- 40 — 46 Sphenoid Mucocoele with Intracranial Extension: An Anatomic Perspective: *Giulia Cossu, Roy T. Daniel, Patrick Francois, Christophe Destrieux, Mahmoud Messerer*
- 58 — 61 True Cortical Saccular Aneurysm Presenting as an Acute Subdural Hematoma: *Leonard H. Verhey, Weichen Wang, Joseph G. Adel*
- 62 — 66 Cerebellar Peduncle Localized Oligodendroglioma: Case Report and Review of the Literature: *Oguz Baran, Omur Kasimcan, Hakan Oruckaptan*
- 73 — 77 Treatment of Wide-Neck Bifurcation Aneurysm Using “WEB Device Waffle Cone Technique”: *Cristian Mihalea, Jildaz Caroff, Aymeric Rouchaud, Sorin Pescariu, Jacques Moret, Laurent Spelle*
- 86 — 90 Burr Hole Surgery for Chronic Subdural Hematoma with Extensive Scalp Burn: *Eijiro Echizen, Kei Miyata, Ken Yamashita, Takeshi Mikami, Eichi Narimatsu, Nobuhiro Mikuni*
- 98 — 102 Case of Subarachnoid Hemorrhage from Ruptured Oncotic Fusiform Aneurysms from Choriocarcinoma Metastasis Treated with Aneurysmectomy and Vessel Reconstruction: *Yuichi Ito, Yoshio Araki, Takashi Izumi, Sho Okamoto, Masaaki Kimura, Toshihiko Wakabayashi*
- 103 — 107 Cardiac Metastasis from Clivus Chordoma: *Jun Won Kim, Chang-Ki Hong, Yoon Jin Cha, Se Hoon Kim, Chang-Ok Suh, Kyu-Sung Lee*
- 135 — 139 Delayed Posttraumatic Subacute Lumbar Subarachnoid Hematoma: Case Report and Review of the Literature: *Thiébaud Picart, Timothée Jacquesson, Emmanuel Jouanneau, Moncef Berhouma*
- 142 — 145 Microvascular Decompression for Treatment of Trigeminal Neuralgia in Patient with Facial Nerve Schwannoma: *John P. Marinelli, Jamie J. Van Gompel, Michael J. Link, Matthew L. Carlson*
- 146 — 152 Abscess within a Glioblastoma: Mimicking a Matryoshka Doll: *Kislay Kishore, Manish Beniwal, Shilpa Rao, K.V.L. Narasinga Rao, Vikas Vazhayil, Dwarakanath Srinivas, Sampath Somanna*
- 180 — 183 Computed Tomography Cisternography for Evaluation of Trigeminal Neuralgia When Magnetic Resonance Imaging Is Contraindicated: Case Report and Review of the Literature: *Vadim Gospodarev, Vikram Chakravarthy, Casey Harms, Hannah Myers, Brett Kaplan, Esther Kim, Matthew Pond, Kenneth De Los Reyes*
- 184 — 187 Exophytic Cerebral Hemispheric Low-Grade Glioma: Unusual Growth Pattern of Common Central Nervous System Tumor: *Suyash Singh, Kuntal Kanti Das, Sushila Jaiswal, Raj Kumar*
- 195 — 197 Bilateral Spontaneous Regression of Vestibular Schwannoma in Neurofibromatosis Type 2: *Martina Sebök, Christiaan Hendrik Bas van Niftrik, Oliver Bozinov*
- 208 — 211 Coil and Single-Stent Placement for Ruptured Dissecting Aneurysm of Middle Cerebral Artery: A Case Report: *Tomohiko Ozaki, Takeo Nishida, Yuya Fujita, Haruhiko Kishima, Manabu Kinoshita*
- 212 — 216 A Novel Anterior Revision Surgery for the Treatment of Cervical Ossification of Posterior Longitudinal Ligament: Case Report and Review of the Literature: *Jinhao Miao, Jingchuan Sun, Jiangang Shi, Yu Chen, Deyu Chen*
- 217 — 222 Case of Primary Central Nervous System Lymphoma Arising at Site of Remote Herpes Encephalitis: *Victor Li, Adrian B. Levine, Peter A. Gooderham, Stephen Yip, Jason Chew*

Continued on page VI

Continued from page V

- 232 – 237 **Microsurgical Decompression of the Cochlear Nerve to Treat Disabling Tinnitus via an Endoscope-Assisted Retrosigmoid Approach: The Padua Experience:** *Arianna Di Stadio, Roberta Colangeli, Laura Dipietro, Alessandro Martini, Daniela Parrino, Ennio Nardello, Domenico D'Avella, Elisabetta Zanoletti*
- 238 – 243 **Endovascular Treatment of Pulsatile Tinnitus by Sigmoid Sinus Aneurysm: Technical Note and Review of the Literature:** *Hugo Cuellar, Tanmoy Maiti, Devi Prasad Patra, Amey Savardekar, Hai Sun, Anil Nanda*
- 261 – 266 **Pediatric Supratentorial Ganglioneuroblastoma: Case Report and Review of Literature:** *Farhan A. Mirza, Brian Synder, Vanessa D. Smith, Raul A. Vasquez*
- 276 – 279 **Acute Deafness: A Rare Complication of Shunting:** *Rafael Martinez-Perez, Agustin Montivero, Natalia Rayo, Marco Ramirez, Cristian Naudy, Jorge Mura*
- 293 – 295 **Microvascular Decompression and Arachnoid Cyst Fenestration for Treatment of Medulla Oblongata Compression Caused by Arachnoid Cyst-Vascular Loop Complex:** *Jehad Zakaria, Michael Wemhoff, Douglas Anderson*
- 298 – 303 **Osteodiskitis of Lumbar Spine Due to Migrated Fractured Inferior Vena Cava Filter:** *Salah G. Aoun, Nicole Bedros, Tarek Y. El Ahmadieh, Jake Kreck, Nikhil Mehta, Mazin Al Tamimi*
- 304 – 307 **Surgical Resection of Pineal Epidermoid Cyst Contributed to Relieving Schizophrenia Symptoms:** *Xiaobing Jiang, Yinsheng Chen, Zhihuan Zhou, Liping Luo, Wanming Hu, Huirong Zheng, Zhe Zhu, Jian Wang, Zhongping Chen*
- 308 – 311 **Surgical Management in Cervical Spondylotic Myelopathy Due to Alkaptonuria:** *Ali Karadag, Evren Sandal, Erik H. Middlebrooks, Mehmet Senoglu*
- 316 – 319 **Lethal Ultra-Early Subarachnoid Hemorrhage Due to Rupture of De Novo Aneurysm 5 Months After Primary Aneurysmatic Subarachnoid Hemorrhage:** *Johannes Walter, Andreas W. Unterberg, Klaus Zweckberger*
- 366 – 372 **Is Edema a Matter of Concern After Laser Ablation of Epileptogenic Focus?:** *Vivek Tandon, Michael Lang, Poodipedi Sarat Chandra, Ashwini Sharan, Ajay Garg, Manjari Tripathi*

FROM THE ANNALS OF WEILL CORNELL NEUROLOGICAL SURGERY

- 411 – 424 **Neurosurgery in East Africa: Foundations:** *Halinder S. Mangat, Karsten Schöller, Karol P. Budohoski, Japhet G. Ngerageza, Mahmood Qureshi, Maria M. Santos, Hamisi K. Shabani, Micaella R. Zubkov, Roger Härtl, Philip E. Stieg*
- 425 – 435 **The Growth of Neurosurgery in East Africa: Challenges:** *Maria M. Santos, Mubashir M. Qureshi, Karol P. Budohoski, Halinder S. Mangat, Japhet G. Ngerageza, Karsten Schöller, Hamisi K. Shabani, Micaella R. Zubkov, Roger Härtl*
- 436 – 452 **Neurosurgery in East Africa: Innovations:** *Karol P. Budohoski, Japhet G. Ngerageza, Benedict Austard, Anthony Fuller, Robert Galler, Michael Haglund, Ronald Lett, Isador H. Lieberman, Halinder S. Mangat, Karen March, David Olouch-Olunya, José Piquer, Mahmood Qureshi, Maria M. Santos, Karsten Schöller, Hamisi K. Shabani, Rikin A. Trivedi, Paul Young, Micaella R. Zubkov, Roger Härtl, Philip E. Stieg*

ORIGINAL ARTICLES: Full text available at
www.WORLDNEUROSURGERY.org and www.sciencedirect.com/science/journal/18788750

- e1 — e9 **Clinical Features of Precocious, Synchronous, and Metachronous Brain Metastases and the Role of Tumor Resection:** *Ichijo Shibahara, Masayuki Kanamori, Takashi Watanabe, Akihiro Utsunomiya, Hiroyoshi Suzuki, Ryuta Saito, Yukihiko Sonoda, Hidefumi Jokura, Hiroshi Uenohara, Teiji Tominaga*
<http://dx.doi.org/10.1016/j.wneu.2017.10.145>
- e10 — e19 **Usefulness of Oblique Coronal Computed Tomography and Magnetic Resonance Imaging in the Endoscopic Endonasal Approach to Treat Skull Base Lesions:** *Shigetoshi Yano, Naoki Shinojima, Mika Kitajima, Hiroyuki Uetani, Takuichiro Hide, Akitake Mukasa*
<http://dx.doi.org/10.1016/j.wneu.2018.01.022>
- e20 — e28 **Prognostic Factors of Surgical Complications and Overall Survival of Patients with Metastatic Spinal Tumor:** *Gábor Czegléczki, Tamás Mezei, Péter Pollner, Anna Horváth, Péter Banczerowski*
<http://dx.doi.org/10.1016/j.wneu.2018.01.092>
- e29 — e37 **Association Between Neurological Outcomes Related to Aneurysmal Subarachnoid Hemorrhage and Onsite Access to Neurointerventional Radiology:** *Jorge Pena Mogollon, Nicolas Roydon Smoll, Rakshit Panwar*
<http://dx.doi.org/10.1016/j.wneu.2018.01.121>
- e38 — e44 **Novel Segmentation of Placed Coils in the Treatment of Cavernous Sinus Dural Arteriovenous Fistulas Provides a Reliable Predictor of the Long-Term Outcome in Abducens Nerve Palsy:** *Masaaki Kohta, Atsushi Fujita, Jun Tanaka, Takashi Sasayama, Kohkichi Hosoda, Eiji Kohmura*
<http://dx.doi.org/10.1016/j.wneu.2018.01.136>
- e45 — e50 **Changes of Facet Joints After Dynamic Stabilization: Continuous Degeneration or Slow Fusion?:** *Mei-Yin Yeh, Chao-Hung Kuo, Jau-Ching Wu, Wen-Cheng Huang, Tsung-Hsi Tu, Li-Yu Fay, Ching-Lan Wu, Henrich Cheng*
<http://dx.doi.org/10.1016/j.wneu.2018.01.148>
- e51 — e69 **Scanning Fiber Endoscope Improves Detection of 5-Aminolevulinic Acid—Induced Protoporphyrin IX Fluorescence at the Boundary of Infiltrative Glioma:** *Evgenii Belykh, Eric J. Miller, Danying Hu, Nikolay L. Martirosyan, Eric C. Woolf, Adrienne C. Scheck, Vadim A. Byvaltsev, Peter Nakaji, Leonard Y. Nelson, Eric J. Seibel, Mark C. Preul*
<http://dx.doi.org/10.1016/j.wneu.2018.01.151>
- e70 — e76 **Clinical and Radiologic Features of 3 Reconstructive Procedures for the Surgical Management of Patients with Bilevel Cervical Degenerative Disc Disease at a Minimum Follow-Up Period of 5 Years: A Comparative Study:** *Kai-Feng Wang, Shuo Duan, Zhen-Qi Zhu, Hai-Ying Liu, Chen-Jun Liu, Shuai Xu*
<http://dx.doi.org/10.1016/j.wneu.2018.01.157>
- e77 — e81 **A Potential New Risk Factor for Stroke: *Streptococcus Mutans* With Collagen-Binding Protein:** *Chikanori Inenaga, Kazuya Hokamura, Kazuhiko Nakano, Ryota Nomura, Shuhei Naka, Toshihiko Ohashi, Takashi Ooshima, Nagato Kuriyama, Toshimitsu Hamasaki, Koichiro Wada, Kazuo Umemura, Tokutaro Tanaka*
<http://dx.doi.org/10.1016/j.wneu.2018.01.158>
- e82 — e87 **The Most-Cited Works in Severe Traumatic Brain Injury: A Bibliometric Analysis of the 100 Most-Cited Articles:** *Lei Li, Xiaoye Ma, Sajan Pandey, Xianyu Deng, Songyu Chen, Daming Cui, Liang Gao*
<http://dx.doi.org/10.1016/j.wneu.2018.01.164>
- e88 — e92 **A Comparison of Cerebellar Retraction Pressures in Posterior Fossa Surgery: Extended Retrosigmoid Versus Traditional Retrosigmoid Approach:** *Brandon D. Liebelt, Meng Huang, Gavin W. Britz*
<http://dx.doi.org/10.1016/j.wneu.2018.01.173>

Continued on page VIII

Continued from page VII

- e93 — e100 **A Novel C2 Screw Trajectory: Preliminary Anatomic Feasibility and Biomechanical Comparison:** *NingNing Dou, Jennifer N. Lehrman, Anna G.U.S. Newcomb, Brian P. Kelly*
<http://dx.doi.org/10.1016/j.wneu.2018.01.177>
- e101 — e107 **Morphometric Analysis of the Uncinate Process as a Landmark for Anterior Controllable Antedisplacement and Fusion Surgery: A Study of Radiologic Anatomy:** *Jing Chuan Sun, Hai Song Yang, Jian Gang Shi, Wang Yuan, Xi Ming Xu, Guo Dong Shi, Lian Shun Jia*
<http://dx.doi.org/10.1016/j.wneu.2018.01.181>
- e108 — e112 **Complications of Impulse Generator Exchange Surgery for Deep Brain Stimulation: A Single-Center, Retrospective Study:** *Ann-Kristin Helmers, Isabel Lübbling, Falk Birkenfeld, Karsten Witt, Michael Synowitz, Hubertus Maximilian Mehdorn, Daniela Falk*
<http://dx.doi.org/10.1016/j.wneu.2018.01.183>
- e113 — e121 **The Results of Neuroendoscopic Surgery in Patients with Posttraumatic and Posthemorrhagic Hydrocephalus:** *Jan Chrástina, Zdeněk Novák, Tomáš Zeman, Věra Feitová, Dušan Hrabovský, Ivo Říha*
<http://dx.doi.org/10.1016/j.wneu.2018.01.186>
- e122 — e128 **Continuous Acetylsalicylic Acid Treatment Does Not Influence Bleeding Pattern or Outcome of Aneurysmal Subarachnoid Hemorrhage: A Matched-Pair Analysis:** *Markus Bruder, Sae-Yeon Won, Marlies Wagner, Nina Brawanski, Nazife Dinc, Sepide Kashefiolasl, Volker Seifert, Juergen Konczalla*
<http://dx.doi.org/10.1016/j.wneu.2018.01.188>
- e129 — e137 **Percutaneous Endoscopic Laminotomy with Flavectomy by Uniportal, Unilateral Approach for the Lumbar Canal or Lateral Recess Stenosis:** *Chul-Woo Lee, Kang-Jun Yoon, Ji-Ho Jun*
<http://dx.doi.org/10.1016/j.wneu.2018.01.195>
- e138 — e145 **Clinical Features and Treatment of Secondary Pituitary Abscess After Transsphenoidal Surgery: A Retrospective Study of 23 Cases:** *Ziquan Li, Chengxian Yang, Xinjie Bao, Yong Yao, Ming Feng, Kan Deng, Xiaohai Liu, Bing Xing, Renzhi Wang*
<http://dx.doi.org/10.1016/j.wneu.2018.01.197>
- e146 — e152 **Defining a Clopidogrel Response Cut-Off Value Using Light Transmission Aggregometry Before Pipeline Embolization of Unruptured Intracranial Aneurysms:** *Nimer Adeeb, Raghav Gupta, Anna M. Schneider, Madeline Leadon, Alejandro Enriquez, Christoph J. Griessenauer, Mohammad Salem, Abdulrahman Alturki, Philip Schmalz, Christopher S. Ogilvy, Ajith J. Thomas, Justin M. Moore*
<http://dx.doi.org/10.1016/j.wneu.2018.01.198>
- e153 — e160 **Life After the Neurosurgical Ward in Sub-Saharan Africa: Neurosurgical Treatment and Outpatient Outcomes in Uganda:** *Linda W. Xu, Silvia D. Vaca, Juliet Nalwanga, Christine Muhumuza, Daniel Vail, Benjamin J. Lerman, Joel Kiryabwire, Hussein Ssenyonjo, John Mukasa, Michael Muhumuza, Michael M. Haglund, Gerald Grant*
<http://dx.doi.org/10.1016/j.wneu.2018.01.204>
- e161 — e165 **Marriage and Partnership Integrity After Aneurysmal Subarachnoid Hemorrhage: Small Alterations in Neurologic Status Matter Most:** *Daniel Schöni, Lara Lauber, Christian Fung, Johannes Goldberg, René Müri, Andreas Raabe, Thomas Nyffeler, Jürgen Beck*
<http://dx.doi.org/10.1016/j.wneu.2018.01.205>
- e166 — e171 **Traumatic Lateral Spondyloptosis: Case Series:** *Mayank Garg, Amandeep Kumar, Dattaraj Parmanand Sawarkar, Pankaj Kumar Singh, Deepak Agarwal, Shashank Sharad Kale, Ashok K. Mahapatra*
<http://dx.doi.org/10.1016/j.wneu.2018.01.206>
- e172 — e178 **Digital Footprint of Neurological Surgeons:** *Christopher Kim, Raghav Gupta, Aakash Shah, Evan Madill, Arpan V. Prabhu, Nitin Agarwal*
<http://dx.doi.org/10.1016/j.wneu.2018.01.210>

- e179 — e189 **National Trends for Reoperation in Older Patients with Glioblastoma:** *Yi-Ren Chen, Jon Sole, Beatrice Ugiliweneza, Eli Johnson, Eric Burton, Shiao Y. Woo, Maria Koutourousiou, Brian Williams, Maxwell Boakye, Stephen Skirboll*
<http://dx.doi.org/10.1016/j.wneu.2018.01.211>
- e190 — e199 **Postoperative Cerebral Infarction Risk Factors and Postoperative Management of Pediatric Patients with Moyamoya Disease:** *Shinsuke Muraoka, Yoshio Araki, Goro Kondo, Michihiro Kurimoto, Yoshiki Shiba, Kenji Uda, Shinji Ota, Sho Okamoto, Toshihiko Wakabayashi*
<http://dx.doi.org/10.1016/j.wneu.2018.01.212>
- e200 — e212 **Functional-Based Resection Does Not Worsen Quality of Life in Patients with a Diffuse Low-Grade Glioma Involving Eloquent Brain Regions: A Prospective Cohort Study:** *Jun Muto, Edouard Dezamis, Odile Rigaux-Viode, Sophie Peeters, Alexandre Roux, Marc Zanella, Charles Mellerio, Xavier Sauvageon, Pascale Varlet, Catherine Oppenheim, Johan Pallud*
<http://dx.doi.org/10.1016/j.wneu.2018.01.213>
- e213 — e221 **Expression of Matrix Metalloproteinase-9, Pituitary Tumor Transforming Gene, High Mobility Group A 2, and Ki-67 in Adrenocorticotropic Hormone–Secreting Pituitary Tumors and Their Association with Tumor Recurrence:** *Xiaohai Liu, Ming Feng, Ye Zhang, Congxin Dai, Bowen Sun, Xinjie Bao, Kan Deng, Yong Yao, Renzhi Wang*
<http://dx.doi.org/10.1016/j.wneu.2018.01.214>
- e222 — e231 **Utility of 3-Dimensional–Printed Models in Enhancing the Learning Curve of Surgery of Tuberculum Sellae Meningioma:** *Qing-Song Lin, Yuan-Xiang Lin, Xi-Yue Wu, Pei-Sen Yao, Ping Chen, De-Zhi Kang*
<http://dx.doi.org/10.1016/j.wneu.2018.01.215>
- e232 — e238 **Improving Sperm Viability After Spinal Cord Injury Using Hyperbaric Therapy:** *Asdrubal Falavigna, Pedro G. da Silva, Lucas P. Conzatti, Louise M. Corbellini, Caroline S. Cagliari, Fabio F. Pasqualotto*
<http://dx.doi.org/10.1016/j.wneu.2018.01.216>
- e239 — e246 **The First Neurosurgery Boot Camp in Southeast Asia: Evaluating Impact on Knowledge and Regional Collaboration in Yangon, Myanmar:** *Jack Rock, Roberta Glick, Isabelle M. Germano, Robert Dempsey, John Zervos, Tyler Prentiss, Matthew Davis, Ernest Wright, Kyi Hlaing, Myat Thu, Zaw Wai Soe, Win Myaing*
<http://dx.doi.org/10.1016/j.wneu.2018.02.001>
- e247 — e270 **The Differentially Expressed Genes of Human Sporadic Cerebral Cavernous Malformations:** *Xiangjiang Lin, Guolu Meng, Xing Liu, Tengfei Yu, Chuanfeng Bai, Xiaobin Fei, Shengze Deng, Jizong Zhao, Shulin Ren, Junting Zhang, Zhen Wu, Shuo Wang, Jianguo Zhang, Liwei Zhang*
<http://dx.doi.org/10.1016/j.wneu.2018.02.002>
- e271 — e279 **Transvertebral Bone Graft and Augmentation Versus Posterior Spinal Instrumentation in the Treatment of Simple Thoracolumbar Compression Fractures:** *Yang Hou, Jianguo Shi, Jingchuan Sun, Yongfei Guo, Guohua Xu, Guodong Shi*
<http://dx.doi.org/10.1016/j.wneu.2018.02.003>
- e280 — e295 **Cervical Spinal Fusion: 16-Year Trends in Epidemiology, Indications, and In-Hospital Outcomes by Surgical Approach:** *Stephan N. Salzmann, Peter B. Derman, Lukas P. Lampe, Janina Kueper, Ting Jung Pan, Jingyan Yang, Jennifer Shue, Federico P. Girardi, Stephen Lyman, Alexander P. Hughes*
<http://dx.doi.org/10.1016/j.wneu.2018.02.004>
- e296 — e301 **S2 Alar-Iliac Screw Insertion: Technical Note with Pictorial Guide:** *Emre Yilmaz, Amir Abdul-Jabbar, Tamir Tawfik, Joe Iwanaga, Cameron K. Schmidt, Jens Chapman, Ronen Blecher, R. Shane Tubbs, Rod J. Oskouian*
<http://dx.doi.org/10.1016/j.wneu.2018.02.009>
- e302 — e308 **Does the Iliac Wing Influence L5 Pedicle Screw Fixation?:** *Hai-Ming Jin, Xue-Qin Bai, Xiang-Xiang Pan, Jianwei Wu, Cong-Cong Wu, Ying-Zhao Yan, Ke Wang, Ai-Ming Wu, Xiang-Yang Wang*
<http://dx.doi.org/10.1016/j.wneu.2018.02.011>

Continued on page X

Continued from page IX

- e309 — e313 **Awake Microvascular Decompression for Trigeminal Neuralgia: Concept and Initial Results:** Saleem I. Abdulrauf, Jorge F. Urquiaga, Ritesh Patel, J. Andrew Albers, Varun B. Sampat, Meghan Baumer, Eric Marvin, Matthew Pierson, Raquel Kragel, Jodi Walsh
<http://dx.doi.org/10.1016/j.wneu.2018.02.019>
- e314 — e319 **Movement Disorders and Deep Brain Stimulation in the Middle East:** Junaid H. Siddiqui, Danish Bhatti, Fahd Alsubaie, Jawad A. Bajwa
<http://dx.doi.org/10.1016/j.wneu.2018.02.023>
- e320 — e327 **End-Stage Liver Disease in Patients with Intracranial Hemorrhage Is Associated with Increased Mortality: A Cohort Study:** Carlito Lagman, Daniel T. Nagasawa, John P. Sheppard, Cheng Hao Jacky Chen, Thien Nguyen, Giyarpuram N. Prashant, Tianyi Niu, Alexander M. Tucker, Won Kim, Nader Pouratian, Fady M. Kaldas, Ronald W. Busuttill, Isaac Yang
<http://dx.doi.org/10.1016/j.wneu.2018.02.025>
- e328 — e335 **The Risk of Traumatic Brain Injury Occurring Among Patients with Parkinson Disease: A 14-Year Population-Based Study:** Tee-Tau Eric Nyam, Chung-Han Ho, Yu-Lin Wang, Sher-Wei Lim, Jhi-Joung Wang, Chung-Ching Chio, Jinn-Rung Kuo, Che-Chuan Wang
<http://dx.doi.org/10.1016/j.wneu.2018.02.027>
- e336 — e344 **Microsurgical Clipping of Intracranial Aneurysms Assisted by Neurophysiological Monitoring, Microvascular Flow Probe, and ICG-VA: Outcomes and Intraoperative Data on a Multimodal Strategy:** Alessandro Della Puppa, Marta Rossetto, Francesco Volpin, Oriela Rustemi, Alberto Grego, Alessandra Gerardi, Riccardo Ortolan, Francesco Causin, Marina Munari, Renato Scienza
<http://dx.doi.org/10.1016/j.wneu.2018.02.029>
- e345 — e363 **Traumatic Spinal Injury: Global Epidemiology and Worldwide Volume:** Ramesh Kumar, Jaims Lim, Rania A. Mekary, Abbas Rattani, Michael C. Dewan, Salman Y. Sharif, Enrique Osorio-Fonseca, Kee B. Park
<http://dx.doi.org/10.1016/j.wneu.2018.02.033>
- e364 — e372 **Self-Reported Headaches in Patients with Unruptured Intracranial Aneurysms Treated with the Pipeline Embolization Device:** Anna M. Schneider, Justin M. Moore, Nimer Adeeb, Raghav Gupta, Christoph J. Griessebauer, Peter A. Winkler, Sarah Sieber, Abdulrahman Y. Alturki, Christopher S. Ogilvy, Ajith J. Thomas
<http://dx.doi.org/10.1016/j.wneu.2018.02.034>
- e373 — e382 **Management of Skull Base Tumors in the Obstetric Population: A Case Series:** Blake H. Priddy, Bradley A. Otto, Ricardo L. Carrau, Daniel M. Prevedello
<http://dx.doi.org/10.1016/j.wneu.2018.02.038>
- e383 — e390 **Iatrogenic Spondylolisthesis Following Open Lumbar Laminectomy: Case Series and Review of the Literature:** Seba Ramhmdani, Yuanxuan Xia, Risheng Xu, Thomas Kosztowski, Daniel Sciubba, Timothy Witham, Ali Bydon
<http://dx.doi.org/10.1016/j.wneu.2018.02.039>
- e391 — e398 **The Factors Affecting the Difficulty of Percutaneous Cylindrical Electrode Placement for Spinal Cord Stimulation:** Kyohei Kin, Takashi Agari, Takao Yasuhara, Yousuke Tomita, Ken Kuwahara, Ittetsu Kin, Michiari Umakoshi, Jun Morimoto, Mihoko Okazaki, Tatsuya Sasaki, Isao Date
<http://dx.doi.org/10.1016/j.wneu.2018.02.040>
- e399 — e407 **Brainstem Dose Constraints in Nonisometric Radiosurgical Treatment Planning of Trigeminal Neuralgia: A Single-Institution Experience:** Michael Zhang, Layton A. Lamsam, Matthew K. Schoen, Swapnil S. Mehta, Geoffrey Appelboom, John K. Adler, Scott G. Soltys, Steven D. Chang
<http://dx.doi.org/10.1016/j.wneu.2018.02.042>

- e408 — e413 **Anatomic Study of Nutrient Foramina of Posterior Axis with Application to C2 Pedicle Screw Placement:** *Tamir Tawfik, Joe Iwanaga, Emre Yilmaz, Paul Choi, Charlotte Wilson, Emily Simonds, Jared J. Marks, Haynes L. Harkey, Rod J. Oskouian, R. Shane Tubbs*
<http://dx.doi.org/10.1016/j.wneu.2018.02.043>
- e414 — e425 **Preoperative 3-Dimensional Angiography Data and Intraoperative Real-Time Vascular Data Integrated in Microscope-Based Navigation by Automatic Patient Registration Applying Intraoperative Computed Tomography:** *Barbara Carl, Miriam Bopp, Somar Chehab, Siegfried Bien, Christopher Nimsky*
<http://dx.doi.org/10.1016/j.wneu.2018.02.045>
- e426 — e430 **Tiny Cerebral Aneurysms Can Be Treated Safely and Effectively with Low-Profile Visualized Intraluminal Support Stent-Assisted Coiling or Coiling Alone:** *Bu-Lang Gao, Tian-Xiao Li, Li Li, Gang-Qin Xu, Bo-Wen Yang*
<http://dx.doi.org/10.1016/j.wneu.2018.02.051>
- e431 — e438 **Another Endovascular Therapy Strategy for Acute Tandem Occlusion: Protect-Expand-Aspiration-Revascularization-Stent (PEARS) Technique:** *Ting-Yu Yi, Wen-Huo Chen, Yan-Min Wu, Mei-Fang Zhang, Ding-lai Lin, Xiao-hui Lin*
<http://dx.doi.org/10.1016/j.wneu.2018.02.052>
- e439 — e445 **Biomechanical Stability Afforded by Unilateral Versus Bilateral Pedicle Screw Fixation with and without Interbody Support Using Lateral Lumbar Interbody Fusion:** *Jakub Godzik, Eduardo Martínez-del-Campo, Anna G.U.S. Newcomb, Marco T. Reis, Luis Perez-Orribo, Alexander C. Whiting, Vaneet Singh, Brian P. Kelly, Neil R. Crawford*
<http://dx.doi.org/10.1016/j.wneu.2018.02.053>
- e446 — e452 **Characteristics and Endovascular Management of the Posterior Cerebral Artery Anterior Temporal Branch Aneurysms:** *Gang-Qin Xu, Bu-Lang Gao, Zi-Liang Wang, Wei-Xing Bai, Jiang-Yu Xue, Liang-Fu Zhu, Tian-Xiao Li*
<http://dx.doi.org/10.1016/j.wneu.2018.02.054>
- e453 — e464 **Ventrolateral Motor Thalamus Abnormal Connectivity in Essential Tremor Before and After Thalamotomy: A Resting-State Functional Magnetic Resonance Imaging Study:** *Constantin Tuleasca, Elena Najdenovska, Jean Régis, Tatiana Witjas, Nadine Girard, Jérôme Champoudry, Mohamed Faouzi, Jean-Philippe Thiran, Meritxell Bach Cuadra, Marc Levivier, Dimitri Van De Ville*
<http://dx.doi.org/10.1016/j.wneu.2018.02.055>
- e465 — e470 **Anatomical Variations of Brain Venous Sinuses in Patients with Arteriovenous Malformations: Incidental Finding or Causative Factor?:** *Ramon Torné, Luis Reyes, Ana Rodríguez-Hernández, Xabier Urra, Luis Sanroman, Joaquim Enseñat*
<http://dx.doi.org/10.1016/j.wneu.2018.02.057>
- e471 — e479 **The Effects of Intermittent Whole-Body Hypoxic Preconditioning on Patients with Carotid Artery Stenosis:** *Huajun Tan, Hao Lu, Qian Chen, Xiaoguang Tong, Wei Jiang, Hua Yan*
<http://dx.doi.org/10.1016/j.wneu.2018.02.059>
- e480 — e485 **Divergent Bilateral Posterior Lumbar Interbody Fusion with Cortical Screw Fixation: Description of New Trajectory for Interbody Technique from Midline Exposure:** *Michael A. Bohl, Randall J. Hlubek, U. Kumar Kakarla, Steve W. Chang*
<http://dx.doi.org/10.1016/j.wneu.2018.02.060>
- e486 — e489 **Use of a Pediatric Craniotome Drill for Cervical and Thoracic Spine Decompression: Safety and Efficacy:** *Christopher Elia, Omid R. Hariri, Jason Duong, Fanglong Dong, Raed Sweiss, Dan Miulli*
<http://dx.doi.org/10.1016/j.wneu.2018.02.061>
- e490 — e498 **The Influence of Artificial Cervical Disc Prosthesis Height on the Cervical Biomechanics: A Finite Element Study:** *Wei Yuan, Haiping Zhang, Xiaoshu Zhou, Weidong Wu, Yue Zhu*
<http://dx.doi.org/10.1016/j.wneu.2018.02.062>

Continued on page XII

Continued from page XI

- e499 — e507 **Multimodal Image-Based Virtual Reality Presurgical Simulation and Evaluation for Trigeminal Neuralgia and Hemifacial Spasm:** *Shujing Yao, Jiashu Zhang, Yining Zhao, Yuanzheng Hou, Xinghua Xu, Zhizhong Zhang, Ron Kikinis, Xiaolei Chen*
<http://dx.doi.org/10.1016/j.wneu.2018.02.069>
- e508 — e514 **Advantages and Disadvantages of Combined Chemotherapy with Carmustine Wafer and Bevacizumab in Patients with Newly Diagnosed Glioblastoma: A Single-Institutional Experience:** *Yukinori Akiyama, Yuusuke Kimura, Rei Enatsu, Takeshi Mikami, Masahiko Wanibuchi, Nobuhiro Mikuni*
<http://dx.doi.org/10.1016/j.wneu.2018.02.070>
- e515 — e520 **Effects of Treatment of Cervical Spinal Cord Injury without Fracture and Dislocation in A Medium-to Long-Term Follow-Up Study:** *Jianping Wang, Jingfeng Li, Lin Cai*
<http://dx.doi.org/10.1016/j.wneu.2018.02.071>
- e521 — e528 **Genetic Variations of COL4A1 Gene and Intracerebral Hemorrhage Outcome: A Cohort Study in a Chinese Han Population:** *Chao Xia, Sen Lin, Jie Yang, Sha He, Hao Li, Ming Liu, Chao You*
<http://dx.doi.org/10.1016/j.wneu.2018.02.074>
- e529 — e534 **Electronic Residency Application Service Application Characteristics Associated with Successful Residency Matching in Neurosurgery in 2009–2016:** *John M. Leschke and Matthew A. Hunt*
<http://dx.doi.org/10.1016/j.wneu.2018.02.082>
- e535 — e541 **Variations in Treatment of C2 Fractures by Time, Age, and Geographic Region in the United States: An Analysis of 4818 Patients:** *Zachary J. Grabel, Sheyan J. Armaghani, Catphuong Vu, Amit Jain, S. Tim Yoon*
<http://dx.doi.org/10.1016/j.wneu.2018.02.083>
- e542 — e547 **Serum Malondialdehyde Levels and Mortality in Patients with Spontaneous Intracerebral Hemorrhage:** *Leonardo Lorente, María M. Martín, Pedro Abreu-González, Rafael Sabatel, Luis Ramos, Mónica Argueso, Jordi Solé-Violán, Marta Riaño-Ruiz, Alejandro Jiménez, Victor García-Marín*
<http://dx.doi.org/10.1016/j.wneu.2018.02.085>
- e548 — e554 **Relationship Between Cervical Sagittal Alignment and Patient Outcomes After Anterior Cervical Fusion Surgery Involving 3 or More Levels:** *Se-Il Jeon, Seung-Jae Hyun, Sanghyun Han, Byoung Hun Lee, Ki-Jeong Kim, Tae-Ahn Jahng, Hyun-Jib Kim*
<http://dx.doi.org/10.1016/j.wneu.2018.02.088>
- e555 — e560 **The Role of Angiotensin-Converting Enzyme Inhibitors in Patients with Chronic Subdural Hematoma: A Scandinavian Population-Based Multicenter Study:** *Jiri Bartek Jr., Kristin Sjøvik, Samuel Schaible, Sasha Gulati, Ole Solheim, Petter Förander, Asgeir Store Jakola*
<http://dx.doi.org/10.1016/j.wneu.2018.02.094>
- e561 — e567 **Quantitative Assessment of Invasion of High-Grade Gliomas Using Diffusion Tensor Magnetic Resonance Imaging:** *Zonggang Hou, Xu Cai, Huan Li, Chun Zeng, Jiangfei Wang, Zhixian Gao, Mingyu Zhang, Weibei Dou, Ning Zhang, Liwei Zhang, Jian Xie*
<http://dx.doi.org/10.1016/j.wneu.2018.02.095>
- e568 — e578 **Immediate Flow Disruption as a Prognostic Factor After Flow Diverter Treatment: Long-Term Experience with the Pipeline Embolization Device:** *Philippe Dodier, Josa M. Frischer, Wei-Te Wang, Thomas Auzinger, Ammar Mallouhi, Wolfgang Serles, Andreas Gruber, Engelbert Knosp, Gerhard Bavinzski*
<http://dx.doi.org/10.1016/j.wneu.2018.02.096>
- e579 — e585 **The Ponticulus Posticus as Risk Factor for Screw Insertion into the First Cervical Lateral Mass:** *Dilek Arslan, Mehmet Asim Ozer, Figen Govsa, Omer Kitis*
<http://dx.doi.org/10.1016/j.wneu.2018.02.100>

- e586 — e597 **Lumbosacral Intraspinial Paranglioma: Clinicopathologic and Computed Tomography/Magnetic Resonance Imaging Features of 13 Cases:** *Xiaoping Yi, Youming Zhang, Chunhui Zhou, Guanghui Gong, Hongling Yin, Junjie Zeng, Longfei Liu, Weihua Liao, Xiaoyan Long*
<http://dx.doi.org/10.1016/j.wneu.2018.02.102>
- e598 — e603 **Growth Potential of Subdural Hematomas Under Clinical Observation: Which Subdural Hematomas Tend to Grow and Why They Do:** *Ziya Asan*
<http://dx.doi.org/10.1016/j.wneu.2018.02.106>
- e604 — e611 **Praying Sitting Position for Pineal Region Surgery: An Efficient Variant of a Classic Position in Neurosurgery:** *Joham Choque-Velasquez, Roberto Colasanti, Julio C. Resendiz-Nieves, Kléber E. González-Echevarría, Rahul Raj, Behnam Rezai Jahromi, Felix Goehre, Ann-Christine Lindroos, Juha Hernesniemi*
<http://dx.doi.org/10.1016/j.wneu.2018.02.107>
- e612 — e617 **Full Endoscopic Vascular Decompression in Trigeminal Neuralgia: Experience of 230 Patients:** *Amitesh Dubey, Nishtha Yadav, Shailendra Ratre, Vijay Singh Parihar, Yad Ram Yadav*
<http://dx.doi.org/10.1016/j.wneu.2018.02.108>
- e618 — e627 **Chordomas of the Skull Base, Mobile Spine, and Sacrum: An Epidemiologic Investigation of Presentation, Treatment, and Survival:** *Scott L. Zuckerman, Mark H. Bilsky, Ilya Laufer*
<http://dx.doi.org/10.1016/j.wneu.2018.02.109>
- e628 — e637 **Feasibility of Clinician-Facilitated Three-Dimensional Printing of Synthetic Cranioplasty Flaps:** *Sandip S. Panesar, Joao Tiago A. Belo, Rhett N. D'Souza*
<http://dx.doi.org/10.1016/j.wneu.2018.02.111>
- e638 — e649 **Percutaneous Transforaminal Endoscopic Discectomy for the Treatment of Lumbar Disc Herniation in Obese Patients: Health-Related Quality of Life Assessment in a 2-Year Follow-Up:** *Stylianios Kapetanakis, Nikolaos Gkantsinikoudis, Constantinos Chaniotakis, Georgios Charitoudis, Panagiotis Givissis*
<http://dx.doi.org/10.1016/j.wneu.2018.02.112>
- e650 — e653 **Intraoperative Resuturing of Occluded Superficial Temporal Artery—Middle Cerebral Artery Anastomoses: Single-Center Retrospective Study:** *Toshikazu Kimura, Kenji Ibayashi, Kensuke Kawai*
<http://dx.doi.org/10.1016/j.wneu.2018.02.114>
- e654 — e658 **Effect of Age on Cerebral Arteriovenous Malformation Draining Vein Stenosis:** *Sophia F. Shakur, Denise Brunozi, Rahim Ismail, Dilip Pandey, Fady T. Charbel, Ali Alaraj*
<http://dx.doi.org/10.1016/j.wneu.2018.02.116>
- e659 — e671 **Transnasal Endoscopic and Lateral Approaches to the Clivus: A Quantitative Anatomic Study:** *Francesco Doglietto, Marco Ferrari, Davide Mattavelli, Francesco Belotti, Vittorio Rampinelli, Hussein Kheshafati, Davide Lancini, Alberto Schreiber, Tommaso Sorrentino, Marco Ravanelli, Barbara Buffoli, Lena Hirtler, Roberto Maroldi, Piero Nicolai, Luigi Fabrizio Rodella, Marco Maria Fontanella*
<http://dx.doi.org/10.1016/j.wneu.2018.02.118>
- e672 — e689 **Anatomy of the Limbic White Matter Tracts as Revealed by Fiber Dissection and Tractography:** *Raluca Pascalau, Roxana Popa Stănilă, Silviu Sfrângeu, Bianca Szabo*
<http://dx.doi.org/10.1016/j.wneu.2018.02.121>
- e690 — e701 **Value of Ventricular Intracranial Pressure Monitoring for Traumatic Bifrontal Contusions:** *Jun-Hui Chen, Pei-Pei Li, Li-Kun Yang, Lei Chen, Jie Zhu, Xu Hu, Yu-Hai Wang*
<http://dx.doi.org/10.1016/j.wneu.2018.02.122>
- e702 — e706 **Short-Term Outcome in Subaxial Spine Injury Patients Operated on in a Resource-Limited Setting, Addis Ababa, Ethiopia:** *Azarias Kassahun Admasu and Elubabor Buno*
<http://dx.doi.org/10.1016/j.wneu.2018.02.129>

Continued on page XIV

Continued from page XIII

- e707 — e713 **Microvascular Decompression for Classical Trigeminal Neuralgia Caused by Venous Compression: Novel Anatomic Classifications and Surgical Strategy:** *Min Wu, Xianming Fu, Ying Ji, Wanhai Ding, Dali Deng, Yehan Wang, Xiaofeng Jiang, Chaoshi Niu*
<http://dx.doi.org/10.1016/j.wneu.2018.02.130>
- e714 — e721 **Intracranial Hemorrhage in Patients with a Left Ventricular Assist Device:** *Rizwan A. Tahir, Lauren E. Rotman, Matthew C. Davis, Esther B. Dupéché, Maximillian K. Kole, Mahnaz Rehman, Celeste T. Williams, Salpy V. Pamboukian, Michael Bazydlo, Beverly C. Walters*
<http://dx.doi.org/10.1016/j.wneu.2018.02.135>
- e722 — e726 **Symptomatic Tarlov Cysts: Surgical Treatment by Subcutaneous Infusion Port:** *Ying Huang, Tong Zhu, Hongyi Lin, Jing Li, Tao Zeng, Jian Lin*
<http://dx.doi.org/10.1016/j.wneu.2018.02.137>
- e727 — e737 **Comparison of O-(2-¹⁸F-Fluoroethyl)-L-Tyrosine Positron Emission Tomography and Perfusion-Weighted Magnetic Resonance Imaging in the Diagnosis of Patients with Progressive and Recurrent Glioma: A Hybrid Positron Emission Tomography/Magnetic Resonance Study:** *Antoine Verger, Christian P. Filss, Philipp Lohmann, Gabriele Stoffels, Michael Sabel, Hans-J. Wittsack, Elena Rota Kops, Norbert Galldiks, Gereon R. Fink, Nadim J. Shah, Karl-Josef Langen*
<http://dx.doi.org/10.1016/j.wneu.2018.02.139>
- e738 — e746 **Multimodal Approach for Radical Excision of Focal Cortical Dysplasia by Combining Advanced Magnetic Resonance Imaging Data to Intraoperative Ultrasound, Electrooculography, and Cortical Stimulation: A Preliminary Experience:** *Giovanni Tringali, Beatrice Bono, Ivano Dones, Roberto Cordella, Giuseppe Didato, Flavio Villani, Francesco Prada*
<http://dx.doi.org/10.1016/j.wneu.2018.02.141>
- e747 — e760 **Endovascular Treatments in Combination with Extracranial-Intracranial Bypass for Complex Intracranial Aneurysms:** *Kenichi Sato, Hidenori Endo, Miki Fujimura, Toshiki Endo, Yasushi Matsumoto, Hiroaki Shimizu, Teiji Tominaga*
<http://dx.doi.org/10.1016/j.wneu.2018.02.143>
- e761 — e768 **Clinical Effects of Posterior Longitudinal Ligament Removal and Wide Anterior Cervical Corpectomy for Spondylosis:** *Paolo Missori, Maurizio Domenicucci, Daniele Marrasso*
<http://dx.doi.org/10.1016/j.wneu.2018.02.144>
- e769 — e776 **Early Postoperative Perils of Intraventricular Tumors: An Observational Comparative Study:** *Ralph T. Schär, Christa Schwarz, Nicole Söll, Andreas Raabe, Werner J. Z'Graggen, Jürgen Beck*
<http://dx.doi.org/10.1016/j.wneu.2018.02.177>