

REASONS TO BELIEVE—BIostatistics & Methodology for the Neurosurgeon

What is a Case-Control Study?

819

Esther B Dupéché, Kimberly P Kicielinski, Amber S Gordon, Beverly C Walters

REVIEWS IN SPINAL SURGERY

Scientific, Clinical, Regulatory, and Economic Aspects of Choosing Bone Graft/Biological Options in Spine Surgery

827

Kyle A Smith, Glenn S Russo, Alexander R Vaccaro, Paul M Arnold

RESEARCH—HUMAN—CLINICAL STUDIES

Glioblastoma Treated With Magnetic Resonance Imaging-Guided Laser Interstitial Thermal Therapy: Safety, Efficacy, and Outcomes

836

Ashwin A. Kamath, Daniel D. Friedman, S. Hassan A. Akbari, Albert H. Kim, Yu Tao, Jinqin Luo, Eric C. Leuthardt

Pediatric Temporal Lobe Epilepsy Surgery in Bonn and Review of the Literature

844

D. Ryan Ormond, Hans Clusmann, Robert Sassen, Christian Hoppe, Christoph Helmstaedter, Johannes Schramm, Alexander Grote

An Analysis of Publication Productivity During Residency for 1506 Neurosurgical Residents and 117 Residency Departments in North America

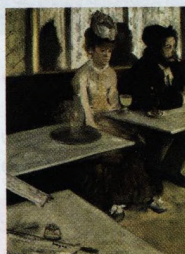
857

Nickalus R. Khan, Hassan Saad, Chesney S. Oravec, Sebastian P. Norrdahl, Brittany Fraser, David Wallace, Jock C. Lillard, Mustafa Motiwala, Vincent N. Nguyen, Siang Liao Lee, Anna V. Jones, Sonia Ajmera, Piyush Kalakoti, Pooja Dave, Kenneth A. Moore, Olutomi Akinduro, Emmanuel Nyenwe, Brandy Vaughn, L. Madison Michael, Paul Klimo, Jr

BRAF V600 Mutation and BRAF Kinase Inhibitors in Conjunction With Stereotactic Radiosurgery for Intracranial Melanoma Metastases: A Multicenter Retrospective Study

868

Panagiotis Mastorakos, Zhiyuan Xu, James Yu, Judith Hess, Jack Qian, Ajay Chatrath, Davis G. Taylor, Douglas Kondziolka, Ronald Warnick, Veronica Chiang, Jason Sheehan



On the Cover

This month's issue features art by Edgar Degas. Degas is best known for his paintings of ballerinas, and the cover features another of his best-known works, *L'Absinthe*, or *In a Café*. Note the visible brush strokes and the quality of the light in his paintings, characteristic of the Impressionist movement. Image: *In a Café* (*L'Absinthe*), Edgar Degas [Public domain], 1873, oil on canvas, Musée d'Orsay, Paris,

France (Google Art Project: Home - pic Maximum resolution, <https://commons.wikimedia.org/w/index.php?curid=20303082>)



Print Readers: Scan this QR code using your mobile device in order to access the online Table of Contents.

REGISTER TODAY!

Congress of Neurological Surgeons



COMMENTARY

- Commentary: BRAF V600 Mutation and BRAF Kinase Inhibitors in Conjunction with Stereotactic Radiosurgery for Intracranial Melanoma Metastases: A Multicenter Retrospective Study** 881
Rimas V. Lukas

RESEARCH—HUMAN—CLINICAL STUDIES

- Prevalence of Schizophrenia in Idiopathic Normal Pressure Hydrocephalus** 883
Vasco Vanhala, Antti Junkkari, Ville E. Korhonen, Mitja I. Kurki, Mikko Hiltunen, Tuomas Rauramaa, Ossi Nerg, Anne M. Koivisto, Anne M. Remes, Jonna Perälä, Jaana Suvisaari, Soili M. Lehto, Heimo Viinamäki, Hilkka Soininen, Juha E. Jääskeläinen, Ville Leinonen

- Efficacy and Safety of Surgery for Mild Degenerative Cervical Myelopathy: Results of the AOSpine North America and International Prospective Multicenter Studies** 890
Jetan H. Badhiwala, Christopher D. Witiw, Farshad Nassiri, Muhammad A. Akbar, Alireza Mansouri, Jefferson R. Wilson, Michael G. Fehlings

- How Cervical Reconstruction Surgery Affects Global Spinal Alignment** 898
Jun Mizutani, Russell Strom, Kuniyoshi Abumi, Kenji Endo, Ken Ishii, Mitsuru Yagi, Bobby Tay, Vedat Deviren, Christopher Ames

- Clinic Satisfaction Tool Improves Communication and Provides Real-Time Feedback** 908
Rasheedat T. Zakare-Fagbamila, Elizabeth Howell, Ashley Y. Choi, Tracy Z. Cheng, Mary Clement, Megan Neely, Oren N. Gottfried

- Comparison of Outcomes Following Anterior vs Posterior Fusion Surgery for Patients With Degenerative Cervical Myelopathy: An Analysis From Quality Outcomes Database** 919
Anthony L. Asher, Clinton J. Devin, Panagiotis Kerezoudis, Silky Chotai, Hui Nian, Frank E. Harrell Jr., Ahilan Sivaganesan, Matthew J. McGirt, Kristin R. Archer, Kevin T. Foley, Praveen V. Mummaneni, Erica F. Bisson, John J. Knightly, Christopher I. Shaffrey, Mohamad Bydon

- Trigeminal Nerve Atrophy Predicts Pain Recurrence After Gamma Knife Stereotactic Radiosurgery for Classical Trigeminal Neuralgia** 927
Yong-Sin Hu, Cheng-Chia Lee, Wan-Yuo Guo, Chung-Jung Lin, Huai-Che Yang, Hsiu-Mei Wu, Kang-Du Liu, Wen-Yuh Chung

- Craniotomy and Survival for Primary Central Nervous System Lymphoma** 935
Ali I. Rae, Amol Mehta, Michael Cloney, Connor J. Kinslow, Tony J.C. Wang, Govind Bhagat, Peter D. Canoll, George J. Zanazzi, Michael B. Sisti, Sameer A. Sheth, E. Sander Connolly, Guy M. McKhann, Jeffrey N. Bruce, Fabio M. Iwamoto, Adam M. Sonabend

RESEARCH—HUMAN—STUDY PROTOCOLS

- Cytokine Microdialysis for Real-Time Immune Monitoring in Glioblastoma Patients Undergoing Checkpoint Blockade** 945
John Lynes, Sadhana Jackson, Victoria Sanchez, Gifty Dominah, Xiang Wang, Averie Kuek, Christina Piper Hayes, Sarah Benzo, Gretchen C. Scott, Prashant Chittiboina, Kareem A. Zaghoul, Deric M. Park, Jing Wu, Christopher S. Hourigan, Amber J. Giles, Tianxia Wu, Dragan Maric, Jinguo Chen, Martha Quezado, John D. Heiss, Mark R. Gilbert, Edjah K. Nduom

- Trial Readiness in Cavernous Angiomas With Symptomatic Hemorrhage (CASH)** 954
Sean P. Polster, Ying Cao, Timothy Carroll, Kelly Flemming, Romuald Girard, Daniel Hanley, Nicholas Hobson, Helen Kim, James Koenig, Janne Koskimäki, Karen Lane, Jennifer J. Majersik, Nichol McBee, Leslie Morrison, Robert Shenkar, Agnieszka Stadnik, Richard E. Thompson, Joseph Zabramski, Hussein A. Zeineddine, Issam A. Awad

RESEARCH—ANIMAL

- Down-Regulated Expression of Magnesium Transporter Genes Following a High Magnesium Diet Attenuates Sciatic Nerve Crush Injury** 965
Ying-Ju Chen, Fu-Chou Cheng, Chun-Jung Chen, Hong-Lin Su, Meei-Ling Sheu, Jason Sheehan, Hung-Chuan Pan

SPECIAL ARTICLE

- Neurosurgical Coverage for Emergency and Trauma Call** 977
Maya A. Babu, Ann R. Stroink, Shelly D. Timmons, Katie O. Orrico, J. Adair Prall

COMMENTARIES

- Commentary: Neurosurgical Coverage for Emergency and Trauma Call** 985
Jefferson W. Chen

- Commentary: Neurosurgical Coverage for Emergency and Trauma Call** 987
Aziz S. Alali

BOOK REVIEWS

- Book Review: *Seven Bypasses: Tenets and Techniques for Revascularization*** 989
Brian M. Howard

- Book Review: *Applied Cranial-Cerebral Anatomy: Brain Architecture and Anatomically Oriented Microneurosurgery***
Kumar Vasudevan

- Book Review: *Intracranial Pressure & Neuromonitoring XVI***
Donald W. Marion

- Book Review: *Migraine Surgery***
Konstantin V. Slavin

- Book Review: *Metastatic Spine Disease: A Guide to Diagnosis and Management***
Laurence D. Rhines

CORRESPONDENCE

- Commentary: Neurosurgery in Western Australia** 990
Ephraim W. Church, Emily B. Church, Elias B. Rizk, Neville W. Knuckey

Letter: How to Combat the Burnout Crisis in Neurosurgery? Cathedrals and Mentorship

Alejandro M. Spiotta, Stephen P. Kalthorn, Sunil J. Patel

Letter: A Tribute to Dr Robert J. White

Nils Hansson

Letter: Patients Who Benefit From Intracranial Pressure Monitoring Without Cerebrospinal Fluid Drainage After Severe Traumatic Brain Injury

Luis Rafael Moscote-Salazar, Tariq Janjua

In Reply: Patients Who Benefit From Intracranial Pressure Monitoring Without Cerebrospinal Fluid Drainage After Severe Traumatic Brain Injury

Abhijit V. Lele, Monica S. Vavilala, Deepak Gupta, representing the CHIRAG (Collaborative Head Injury and Guidelines) Study

DEPARTMENTS

Calendar of Events

Table of Contents by Topic

Next Month in *Neurosurgery*

991

N15

N17

