

Turkish Neurosurgery

Official Journal of the Turkish Neurosurgical Society

ISSN 1019-5149 - NLM ID 9423821
VOLUME 24 - NUMBER 1 - YEAR 2014



*Third Ventricular Colloid Cysts in Children-
A Series of Eight Cases and Review of the
Literature*

*Neurosurgical Wound Infection at a University
Hospital in Egypt; Prospective Study of
1151 Patients for 2 Years*

*Clinical Features of Patients with Carcinomatous
Meningitis in the Chinese Population:
Report of 4 Cases and Review of the Literature*

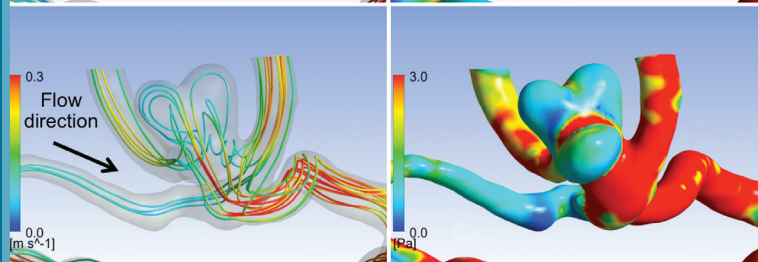
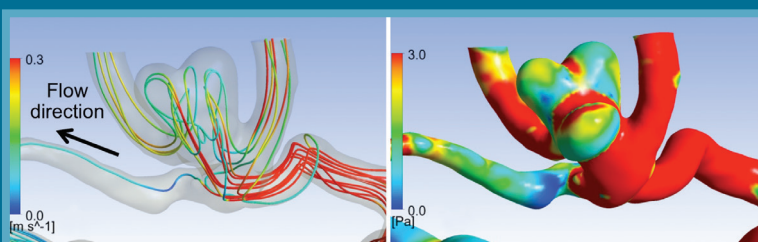
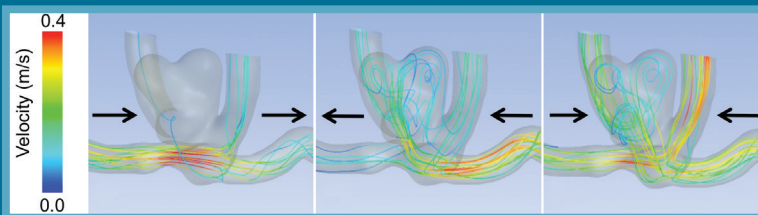
*Traumatic Brain Injuries: Experience from a
Tertiary Care Centre in Pakistan*

*The Effect of Copper on Vasospastic Femoral
Artery in Rats*

*Posterior Inferior Cerebellar Artery Aneurysms:
Operative Strategies Based on a Surgical Series
of 27 Patients*

*A New Molecule in Aneurysmal Subarachnoid
Hemorrhage: Dendroaspis Natriuretic Peptide*

*Treatment Strategy and Follow-up Evaluation for
an Unruptured Anterior Communicating Artery
Aneurysm Associated with Pseudo-Occlusion of the
Internal Carotid Artery Using Computational Fluid
Dynamics Simulations*





Turkish Neurosurgery

Official Journal of the Turkish Neurosurgical Society

TURKISH NEUROSURGICAL SOCIETY

Volume: 24 Number: 1 Year: 2014

www.turkishneurosurgery.org.tr

PRESIDENTS

Nurhan Avman	1985-1986
Aykut Erbenği	1986-1987
Özdemir Gürçay	1988-1988
Tunçalp Özgen	1988-1989
Yücel Kanpolat	1989-1990
Osman E. Özcan	1990-1992
Ertekin Arasil	1992-1993
Yamaç Taşkın	1993-1995
Yücel Kanpolat	1995-1996
Nur Altınörs	1996-1997
Kemali Baykaner	1997-1998
Kaya Aksoy	1998-2000
Necmettin Pamir	2000-2002
Nurcan Özdamar	2002-2004
Selçuk Palaoğlu	2004-2006
Mehmet Zileli	2006-2008
Ethem Beşkonaklı	2008-2010
Murad Bavbek	2010-2012
Uğur Türe	2012

EDITORS

Tunçalp Özgen	1989-1989
Yücel Kanpolat	1989-1990
Osman E. Özcan	1990-1992
Selçuk Palaoğlu	1992-1994
Nur Altınörs	1994-1995
Selçuk Palaoğlu	1995-1996
Zafer Kars	1996-1998
Kaya Aksoy	1998-2000
Murad Bavbek	2000-2003
Erdener Timurkaynak	2003-2004
Kemal Benli	2004-2006
Hakan Caner	2007-2013
Deniz Belen	2014-

Turkish Neurosurgery has been accepted
for indexing in:
SCIENCE CITATION INDEX EXPANDED
INDEX MEDICUS, MEDLINE, PubMed,
Scopus

Editor-in-Chief:

Deniz Belen : turkishneurosurgery@gmail.com

Editor:

Cem Yılmaz : cemerimyilmaz@gmail.com

Editors of Sections:

Prof. Dattatraya Muzumdar MD (Editor of Neurooncology Section)	: dmuzumdar@hotmail.com
Prof. Hidenori Kobayashi MD (Editor of Cerebrovascular Section)	: hidek-fchs@kbh.biglobe.ne.jp
Prof. Kemali Baykaner MD (Editor of Pediatric Neurosurgery Section)	: baykaner@yahoo.com
Prof. Ali Fahir Özer MD (Editor of Spinal Surgery Section)	: alifahirozer@gmail.com
Prof. Minoru Fujiki MD (Editor of Neurotrauma Section)	: fujiki@oita-u.ac.jp

Associate Editors:

Selim Ayhan	: selim_ayhan@yahoo.com	Salih Gülşen	: salihgulsen07@gmail.com
Burçak Bilginer	: burcak@tr.net	Yusuf İzci	: yizci@gata.edu.tr
Denizhan Divanlıoğlu	: divanlıoglu@gmail.com	Hakan Seçkin	: hakanseckin@tr.net
Hakan Emmez	: hakanemmez@gmail.com	Ali Erdem Yıldırım	: alierdemyildirim@mail.com

ADVISORY BOARD

International

Ossama Al-Mefty, <i>USA</i>	Tetsuo Kanno, <i>Japan</i>	James T. Rutka, <i>Canada</i>
Michael J. Apuzzo, <i>USA</i>	Neal F. Kassell, <i>USA</i>	Christian Sainte-Rose, <i>France</i>
Issam A. Awad, <i>USA</i>	Takeski Kawase, <i>Japan</i>	Majid Samii, <i>Germany</i>
Mustafa Başkaya, <i>USA</i>	Andrew H. Kaye, <i>Australia</i>	Bernd W. Scheitauer, <i>USA</i>
Edward C. Benzel, <i>USA</i>	Hidenori Kobayashi, <i>Japan</i>	Johannes Schramm, <i>Germany</i>
Peter M. Black, <i>USA</i>	Shigeaki Kobayashi, <i>Japan</i>	Laligam Sekhar, <i>USA</i>
Mario Brock, <i>Germany</i>	Edward R. Laws, Jr, <i>USA</i>	Marc Sindou, <i>France</i>
Rudolph Fahlbusch, <i>Germany</i>	Kevin Lee, <i>USA</i>	Robert F. Spetzler, <i>USA</i>
Michael Fehlings, <i>Canada</i>	Joseph C. Maroon, <i>USA</i>	Kintomo Takakura, <i>Japan</i>
Fleming Gjerris, <i>Denmark</i>	David G. McLone, <i>USA</i>	David GT Thomas, <i>England</i>
Ziya Gökaslan, <i>USA</i>	Evandro de Oliveira, <i>Brazil</i>	Nicolas de Tribolet, <i>Switzerland</i>
Murat Günel, <i>USA</i>	Robert J. Ojemann, <i>USA</i>	M. Gazi Yaşargil, <i>USA</i>
John A. Jane, <i>USA</i>	Albert L. Rhoton Jr, <i>USA</i>	
Jääskeläinen Juh, <i>Finland</i>	Concezio Di Rocco, <i>Italy</i>	

National

Sabri Cem Açıkbaz, <i>Antalya</i>	Uygur Er, <i>Ankara</i>	Sait Naderi, <i>İstanbul</i>
Halil Ak, <i>İstanbul</i>	Bülent Erdoğan, <i>Ankara</i>	Nezih Oktar, <i>İzmir</i>
Nejat Akalan, <i>Ankara</i>	Yusuf Erşahin, <i>İzmir</i>	Tunç Öktenoğlu, <i>İstanbul</i>
Atila Akbay, <i>Ankara</i>	M. Kemal Hamamcıoğlu, <i>Edirne</i>	Fahir Özer, <i>İstanbul</i>
Nur Altınörs, <i>Ankara</i>	Murat Hancı, <i>İstanbul</i>	Selçuk Palaoğlu, <i>Ankara</i>
Nuri Arda, <i>İzmir</i>	Servet İnci, <i>Ankara</i>	Necmettin Pamir, <i>İstanbul</i>
Ali Arslantaş, <i>Eskişehir</i>	Yusuf İzci, <i>Ankara</i>	Mehdi Sasani, <i>İstanbul</i>
Başar Atalay, <i>İstanbul</i>	Serdar Kahraman, <i>Ankara</i>	Ali Savaş, <i>Ankara</i>
Naci Balak, <i>İstanbul</i>	Tuncay Kaner, <i>İstanbul</i>	İhsan Solaroğlu, <i>İstanbul</i>
Murad Bavbek, <i>Ankara</i>	Erkan Kaptanoğlu, <i>Lefkoşa</i>	Alparslan Şenel, <i>Samsun</i>
Kemali Baykaner, <i>Ankara</i>	Mehduh Kaymaz, <i>Ankara</i>	Serkan Şimşek, <i>Ankara</i>
Mustafa Berker, <i>Ankara</i>	M. Yaşar Kaynar, <i>İstanbul</i>	Sait Şirin, <i>Ankara</i>
Ethem Beşkonaklı, <i>Ankara</i>	Evren Keleş, <i>İstanbul</i>	Uğur Türe, <i>İstanbul</i>
Sedat Çağlı, <i>İzmir</i>	Cumhur Kılınçer, <i>Edirne</i>	Ağahan Ünlü, <i>Ankara</i>
Adnan Dağçınar, <i>Samsun</i>	Talat Kırış, <i>İstanbul</i>	Mehmet Zileli, <i>İzmir</i>
Mehmet Daneyemez, <i>Ankara</i>	Kemal Koç, <i>Kayseri</i>	İbrahim Ziyal, <i>Ankara</i>
Bülent Düz, <i>İstanbul</i>	Kadir Kotil, <i>İstanbul</i>	
Hakan Emmez, <i>Ankara</i>	Melike Mut, <i>Ankara</i>	

Redaction: Dr. Aydın Yuluğ, Aytaç Yıldızeli

Secretary : Mukadder Karakaya Çerçi, Nurhan Şen

Plagiarism: Hüseyin Körpeoğlu

Web site design: Pleksus Information Technology

Turkish Neurosurgery

Volume: 24 Number: 1 Year: 2014

Official Journal of the Turkish Neurosurgical Society

Turkish Neurosurgery is published six times per year by the Turkish Neurosurgical Society (January, March, May, July, September, and November)

Owned and controlled by the Turkish Neurosurgical Society

Copyright owner on behalf of the Turkish Neurosurgical Society:
Uğur TÜRE

Publishing Manager:
İhsan SOLAROĞLU

Key title: Turkish Neurosurgery
Abbreviated key title: Turk Neurosurg
www.turkishneurosurgery.org.tr

ISSN: 1019-5149

NLM ID: 9423821

Subscription: Sent free to the Turkish Neurosurgical Society members.
Non-members should contact the Society for subscription.

Publishing Services

BULUŞ DESIGN AND PRINTING SERVICES COMPANY
Bahriye Üçok Caddesi 9/1 Beşevler, 06500 Ankara, Turkey
Phone: +90 312 222 44 06 Fax: +90 312 222 44 07
www.bulustasarim.com.tr

Printed at

Sonsöz Gazetecilik ve Matbaacılık Tic. Ltd. Şti.
Matbaacılar Sanayi Sitesi 35. Cadde, No: 56 İvedik, Ankara, Turkey
Phone: +90 312 394 57 71

This issue is published as: 1400 copies.

Printing Date: 31.01.2014

Turkish Neurosurgical Society
Taşkent Caddesi 13/4 06500 Bahçelievler, Ankara/TURKEY
Phone: +90 312 212 64 08 Fax : +90 312 215 46 26
E-mail: info@turkknorosirurji.org.tr
www.turkknorosirurji.org.tr
www.turkishneurosurgery.org.tr

Review of the articles in the journal to make sure they conform to publishing standards, typesetting, the review of English abstract and sources, getting the journal ready for publication and finally the publishing process has been the responsibility of Buluş Design and Printing Services Company.

The paper used to print this journal conforms to ISO 9706: 1994 standard (Requirements for Permanence).
The National Library of Medicine suggests that biomedical publications be printed on acid-free paper (alkaline paper).

INSTRUCTION TO THE AUTHORS

Turkish Neurosurgery is a peer-reviewed, multidisciplinary journal directed at an audience of neurosurgery physicians and scientists. The official language of the journal is **English**. The journal publishes original articles in the form of clinical and basic research. *Turkish Neurosurgery* will only publish studies that have institutional review board (IRB) approval and have strictly observed a sufficient follow-up period. With the exception of reference presentation, *Turkish Neurosurgery* requires that all manuscripts be prepared in accordance with the *Uniform Requirements for Manuscripts Submitted to Biomedical Journals*.

Turkish Neurosurgery periodically publishes the following papers: Original article, Reviews, Clinical and Experimental Studies, Case Reports, Technical notes, Historical Perspective, and Letters to the editors.

Manuscript Submission

Authors are to submit their manuscripts through the Web-based tracking system at <http://www.turkishneurosurgery.org.tr>. The site contains instructions and advice on how to submit manuscripts, guidance on the creation/scanning and saving of electronic art, and supporting documentation. In addition to allowing authors to submit manuscripts on the Web, the site allows authors to follow the progression of their manuscript through the peer review process. Authors who submit their manuscripts through the Web-based tracking system are asked not to send hard copies of the manuscript to the editorial office. Please address all inquiries regarding manuscripts not yet accepted or published to the Journal's editorial office. The editorial office will acknowledge receipt of your manuscript and will send you a manuscript number for reference.

Revised Submission

Author's comments to the reviewers are required for revised submissions. Authors must address the reviewer's concerns/suggestions and whether the change was made or not. Authors must also highlight the changes made within the text. Do not track the additions or deletions to the manuscript. If the Authors do not want to revise the manuscript within a period of two months the manuscript will automatically be declined.

Patient anonymity and informed consent: It is the author's responsibility to ensure that a patient's anonymity is carefully protected and to verify that any experimental investigation with human subjects reported in the manuscript was performed with informed consent and followed all the guidelines for experimental studies with human subjects required by the institution(s) with which all the authors are affiliated. Authors should mask patients' eyes, private parts and remove patients' names from all figures.

Copyright: All authors must sign a copy of the Journal's "**Copyright Transfer/Conflict of Interest and Device Status Form**" and submit it to the Editorial Office if the manuscript is accepted for publication in *Turkish Neurosurgery*. The authors of all published material must sign this form at the time of manuscript acceptance.

Permissions: Authors must submit written permission from the copyright owner (usually the publisher) to use direct quotations, tables, or illustrations that have appeared in copyrighted form elsewhere, along with complete details about the source. Any permissions fees that might be required by the copyright owner are the responsibility of the authors requesting use of the borrowed material and not the Turkish Neurosurgical Society.

Preparation of Manuscript

Manuscripts that do not adhere to the following instructions **WILL BE RETURNED** to the corresponding author for technical revision before undergoing peer review.

General format: All manuscripts should be submitted in English, and formatted for standard 8 1/2 x 11-inch (21 x 28-cm) paper with at least a 1-inch (2.5 cm) margin on all sides and double-spaced.

Style: *Pattern manuscript style after the American Medical Association Manual of Style (9th edition), Stedman's Medical Dictionary (27th edition) and Merriam Webster's Collegiate Dictionary (10th edition)* should be used as standard references. Refer to drugs and therapeutic agents by their accepted generic or chemical names, and do not abbreviate them. Use code numbers only when a generic name is not yet available. In that case, supply the chemical name and a figure giving the chemical structure of the drug. Capitalize the trade names of drugs and place them in parentheses after the generic names. To comply with trademark law, include the name and location (city and state in USA; city and country outside USA) of the manufacturer of any drug, supply, or equipment mentioned in the manuscript. Use the metric system to express the units of measure and degrees Celsius to express temperatures, and SI units rather than conventional units.

Submit the manuscript electronically via:
<http://www.turkishneurosurgery.org.tr> in the following order:

1) Title page: Include on the title page (a) complete manuscript title; (b) authors' full names, highest academic degrees, and affiliations; (c) name and address for correspondence, including fax number, telephone number, and e-mail address; (d) address for reprints if different from that of corresponding author; (e) sources of support that require acknowledgment; (f) any other acknowledgment the authors wish to include. Please verify that the spelling, order, and affiliation of each author are correct. The Journal is not responsible for published misspelled names due to author error. **A Running Head** should appear in the title page. The running head should be no more than three to five words from the title, and should NOT include the authors' names.

2) Structured Abstract (only for clinical and experimental research papers), and Key Words. The following subheads must be included in the Structured Abstract: **Objective (Background), Methods, Results, Conclusions.** Do not cite references in the abstract, and limit the use of abbreviations and acronyms. The structured abstract must **be no more than**

250 words. List three to eight **Key Words after the Abstract.** Abbreviations should be written after the keywords in the abstract. Abbreviations should be written within parentheses after writing the abbreviated phrase in full in the first instance in the text. They should be written without parentheses afterwards. For a list of standard abbreviations, consult the Council of Biology Editors Style Guide (available from the Council of Science Editors, 9650 Rockville Pike, Bethesda, MD 20814) or other standard sources. It is not necessary to provide a structured abstract for submissions to the Case Reports, Review article, Technical note, Historical article and Letters to the editor sections .

3) Text: Organize the manuscript into four main headings: **Introduction, Materials and Methods, Results, and Discussion.** For Clinical Trials, Experimental and Anatomic Studies and similar study designs, please attach the Ethical Committee Approval Form to the manuscript submission. Define abbreviations at first mention in text and in each table and figure. If a brand name is cited, supply the manufacturer's name and address (city and state/country). The number of words varies for different types of manuscripts. The main text should not exceed 3500 words excluding the abstract, references, tables, and figure legends for original articles, including randomized controlled trials, observational (cohort, case-control or cross-sectional) studies, diagnostic accuracy studies, systematic reviews and meta-analyses, nonrandomized behavioral and public health intervention trials, experimental animal trials, or any other retrospective or prospective clinical or experimental studies and invited articles. Case reports must not exceed 1000 words (excluding references, tables, and figure legends). Case reports cannot have more than 4 authors, 15 references, and 4 figures or tables. For case illustrations, the number of words must not exceed 500 words (excluding references, tables, and figure legends). For technical notes, the number of words must not exceed 1000 words, and there should not be more than four authors or fifteen references. There is no limitation for figures and tables in technical notes.

Terms: Do not use the term hardware. Acceptable substitutions include implants and instrumentation. Constructs or montage may be used if the reference is to a particular pattern of fixation points for the instrumentation.

4) References: The authors are responsible for the accuracy of the references. Key the references (double-spaced) at the end of the manuscript. Cite references in text in alphabetical order. Do not link the references to the text. Cite unpublished data, such as papers submitted but not yet accepted for publication or personal communications, in parentheses in the text. List all authors of the reference. Refer to the List of Journals Indexed in Index Medicus for abbreviations of journal names, or access the list at <http://www.nlm.nih.gov/tsd/serials/lji.html>. Sample references are given below:

1. Journal article

Guiot BH, Khoo LT, Fessler RG: A minimally invasive technique for decompression of the lumbar spine. *Turkish Neurosurgery* 27: 432-438, 2002

2. Additional example

Altınörs N, Kars Z, Arda N, Şenveli E, Türker A, Çınar N: Spinal extradural metastasis of medulloblastoma. *Turk Neurosurg Suppl (veya ek) 1:* 144, 1989

3. Book chapter

Sweitzer S, Arruda J, DeLeo J: The cytokine challenge: Methods for the detection of central cytokines in rodent models of persistent pain. In: Kruger L (ed), *Methods in Pain Research*. Boca Raton, FL: CRC Press, 2001: 109-132

4. Entire book

Atlas SW: *Magnetic Resonance Imaging of the Brain and Spine*. Philadelphia: Lippincott Williams & Wilkins, 2001

5. Example of thesis

Kanpolat Y: Trigeminal ganglion deneyisel perkütan giriş ve radyofrekans termik lezyonun histopatolojik değerlendirilmesi (Doçentlik tezi), Ankara: Ankara Üniversitesi, 1978:1- 52

6. Software

Epi Info [computer program]. Version 6. Atlanta: Centers for Disease Control and Prevention, 1994

7. Online journals

Friedman SA. Preeclampsia: A review of the role of prostaglandins. *Obstet Gynecol* [serial online]. January 1988;71:22-37. Available from: BRS Information Technologies, McLean, VA. Accessed December 15, 1990

8. Database

CANCERNET-PDQ [database online]. Bethesda, MD: National Cancer Institute, 1996. Updated March 29, 1996

9. World Wide Web

Gostin LO. Drug use and HIV/AIDS [JAMA HIV/AIDS web site]. June 1, 1996. Available at: <http://www.ama-assn.org/special/hiv/ethics>. Accessed June 26, 1997

5) Tables and Figures:

Tables: Create tables in **word format** using the table creating and editing feature of your word processing software. Do not use Excel or comparable spreadsheet programs. **Tables should not exceed page width of 41 picas or 17.5 cm.** Supply tables together in a separate file. Cite tables consecutively in the text, and number them in that order. Key each on a separate sheet, include the table title, appropriate column heads, and explanatory legends (including definitions of any abbreviations used). **Do not embed tables within the body of the manuscript.** They should be self-explanatory and should supplement, rather than duplicate, the material in the text.

Digital Figures: All electronic art can be submitted through the Web-based tracking system <http://www.turkishneurosurgery.org.tr>.

1. Format: Electronic art should be created/scanned and saved and submitted either as a **JPEG file**.

2. Sizing and Resolution: Line art must have a resolution of at least 1200 dpi (dots per inch), and electronic photographs, radiographs, CT scans, and scanned images must have a resolution of at least 300 dpi. Figures should be sized to fit either 1 column (20 picas/8.4 cm), 1 1/2 columns (30 picas/12.65 cm OR 2 columns (41 picas/17.5 cm) on a page. Sizing and Resolution can be checked through the free Sheridan Digital art checker at <http://dx.sheridan.com/onl>

3. Fonts: If fonts are used in the artwork, they must be converted to paths or outlines or they must be embedded in the files. Fonts must be 8 pt and be sized consistently throughout the artwork. The best font to use is Helvetica.

Figure legends: Legends must be submitted for all figures. They should be brief and specific and less than 150 characters or approximately 50 words. List figure legends on a separate page at the end of the manuscript text.

Color figures: The journal accepts for publication color figures that will enhance an article. **Authors who submit color figures will receive an estimate of the cost for color reproduction.** If they decide not to pay for color reproduction, they can request that the figures be converted to black and white at no charge. The authors may also request that their color figures be posted online only.

Plagiarism: Manuscripts are investigated for possible plagiarism once they are accepted for possible publication. If an author receives a plagiarism notice regarding his/her manuscript, the corrections should be made within one month. If the Editorial Board detects any plagiarism on the second check after correction of the manuscript by the authors, the chief editor can reject the manuscript.

Manuscript Checklist (before submission. For author reference only)

1. Title page
 - Corresponding author designated, and full mailing address included on title page
 - E-mail address of corresponding author included on title page
 - Running head
 - Permission to reproduce copyrighted materials or signed patient consent forms
 - Acknowledgments listed for grants, technical support, and corporate support on title page
2. Structured abstract with key words (250 words)
3. Manuscript text with page numbers
4. Figure legends
5. Tables (Word, Wordperfect)
6. Figures (jpeg)
7. References double-spaced and cited in alphabetical order

Letter to the Editor: Letters to the Editor can also be submitted through Editorial Manager. Letters should refer to the title and authors of the article the letter is about and should be no longer than **300** words with no more than 3 references. Letters to the Editor are sent to the article authors for response. The Editor-in-Chief makes the final decision on whether letters to the editor and the responses are published.

After Acceptance

Page proofs and corrections: Corresponding authors will receive electronic page proofs to check the copyedited and typeset article before publication. Portable document format (PDF) files of the typeset pages and support documents (e.g., reprint order form) will be sent to the corresponding author via e-mail. Complete instructions for downloading and printing the files and for faxing the corrected pages to the publisher will be provided with the e-mail. Authors without an e-mail address will receive traditional page proofs. It is the author's responsibility to ensure that there are no errors in the proofs. Changes that have been made to conform to journal style will stand if they do not alter the author's meaning. Only the most critical changes of the accuracy of the content will be made. Changes that are stylistic or are a reworking of previously accepted material will not be allowed. The publisher reserves the right to deny any changes that do not affect the accuracy of the content. Authors may be charged for alterations to the proofs beyond those required to correct errors or to answer queries. Proofs must be checked carefully and corrections faxed within 24 to 48 hours of receipt, as requested in the cover letter accompanying the page proofs.

Publisher's contact details: Fax corrected page proofs, reprint order forms, and any other related materials to Journal Production Editor, Turkish Neurosurgery, +90 312 212 64 08. Color proofs should be returned to Journal Production Editor, Turkish Neurosurgery, Taşkent Caddesi 13/4, Bahçelievler-06500 Ankara, TURKEY

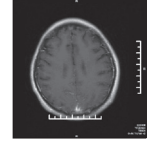
Reprints: Authors will receive a reprint order form and a price list with the page proofs. Reprint requests should be faxed with the corrected proofs, if possible. Reprints are normally shipped 6 to 8 weeks after publication of the issue in which the item appears. Contact the Reprint Department, Taşkent Caddesi 13/4, Bahçelievler-06500 Ankara, TURKEY

ORIGINAL INVESTIGATIONS

- 1** **Third Ventricular Colloid Cysts in Children-A Series of Eight Cases and Review of the Literature**
Çocuklarda Üçüncü Ventrikül Kolloid Kistleri - Sekiz Olguluk Bir Seri ve Literatürün Gözden Geçirilmesi
Nishant GOYAL, Bhawani Shankar SHARMA, Ashok Kumar MAHAPATRA

- 8** **Neurosurgical Wound Infection at a University Hospital in Egypt; Prospective Study of 1181 Patients for 2 Years**
Mısır'da Bir Üniversite Hastanesinde Nöroşürjikal Yara Enfeksiyonu; 2 Yılda 1181 Hastanın Prospektif Çalışması
Mahmoud M. TAHA, Safwat ABOUHASHEM, Ahamad Y ABDEL-RAHMAN

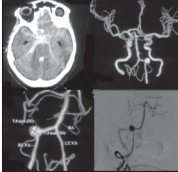
- 13** **Clinical Features of Patients with Carcinomatous Meningitis in the Chinese Population: Report of 4 Cases and Review of the Literature**
Çin Popülasyonunda Karsinomatoz Menenjitli Hastaların Klinik Özellikleri: 4 Olgu Sunumu ve Literatürün Gözden Geçirilmesi
Hao DUAN, Mei LI, Xiaojiang SUN



- 19** **Traumatic Brain Injuries: Experience from a Tertiary Care Center in Pakistan**
Travmatik Beyin Yaralanmaları: Pakistan'da Bir Tersiyer Bakım Merkezi'nin Deneyimi
Muhammad Sohail UMERANI, Asad ABBAS, Salman SHARIF

- 25** **The Effect of Copper on Vasospastic Femoral Artery in Rats**
Vasospastik Sıçan Femoral Arterinde Bakırın Etkisi
Eser GUMUS, Utku ADILAY, Omur GUNALDI, Cicek BAYINDIR, Burak KAZANCI, Bulent GUCLU

- 30** **Posterior Inferior Cerebellar Artery Aneurysms: Operative Strategies Based on a Surgical Series of 27 Patients**
Posterior İnför Serebellar Arter Anevrizmaları: 27 Hastalık Cerrahi Seri Temelinde Operatif Stratejiler
Gopalakrishnan Chittur VISWANATHAN, Girish MENON, Suresh NAIR, Mathew ABRAHAM



- 38** **A New Molecule in Aneurysmal Subarachnoid Hemorrhage: Dendroaspis Natriuretic Peptide**
Anevrizmal Subarahnoid Hemorajide Yeni Bir Molekül: Dendroaspis Natriüretik Peptid
Alpay SEREFHAN, Murat ALTAS, Ajlan CERCI, Nejat ISIK, Ilhan ELMACI

- 44** **Treatment of Symptomatic Fusiform Aneurysm in Basilar Artery by Stenting Following Coiling Technique**
Semptomatik Fuziform Baziler Arter Anevrizmalarının Tedavisinde Koilleme Sonrası Stentleme Tekniği
Yang WANG, Xinjian YANG, Li YOUXIANG, Mu SHIQING, Jiang CHUHAN, Wu ZHONGXUE, Naci KOCER

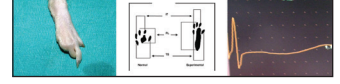
- 48** **Preemptive Wound Infiltration in Lumbar Laminectomy for Postoperative Pain: Comparison of Bupivacaine and Levobupivacaine**
Lomber Laminektomi Sonrası Postoperatif Ağrı Tedavisinde Preemptif Yara Yeri İnfiltrasyonu: Bupivakain ve Levobupivakain'in Karşılaştırılması
Alp GURBET, Ahmet BEKAR, Hulya BILGIN, Nurdan OZDEMIR, Turgut KUYTU

Investigation of the Dose-Dependency of Citicoline Effects on Nerve Regeneration and Functional Recovery in a Rat Model of Sciatic Nerve Injury

54

Sıçan Siyatik Sinir Hasarı Modelinde Sinir Rejenerasyonu ve Fonksiyonel İyileşmesinde Sitikolinin Doza Bağımlı Etkisinin İncelenmesi

Tolga KAPLAN, Ilker Mustafa KAFA, Mehmet CANSEV, Ahmet BEKAR, Necdet KARLI, Mevlut Ozgur TASKAPILIOGLU, Fulya KANAR



CASE REPORTS

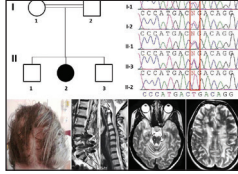
Third Ventricle Herniation into the Sphenoid Sinus Following Endoscopic Transnasal Transsphenoidal Fenestration of Rathke's Cleft Cyst

63

Rathke Yarığı Kistinin Endoskopik Transnazal Transsfenoidal Fenestrasyonu Sonrasında Üçüncü Ventrikülün Sfenoit Sinüse Herniasyonu

Maryam JALESSI, Guive SHARIFI, Amin JAHANBAKHSI, Khosro PARSA, Parin YAZDANIFARD

67



Mutation in the HTRA1 Gene in a Patient with Degenerated Spine as a Component of CARASIL Syndrome

CARASIL Sendromunun Bir Unsuru Olarak Dejenere Omurgası Olan Bir Hastada HTRA1 Gen Mutasyonu

Fatih BAYRAKLI, Hatice BALABAN, Mustafa GURELIK, Sami HIZMETLI, Suat TOPAKTAS

Anterior Corpus Callosotomy Combined with Anterior Temporal Resection with Amygdalohippocampectomy: Outcome in a Patient with Congenital Bilateral Perisylvian Syndrome

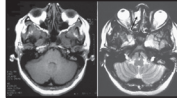
70

Anterior Korpuz Kallozotominin Anterior Temporal Rezeksiyon ile Amigdalohippokampektomi Birlikteliği: Bir Hastada Konjenital Bilateral Perisylvian Sendrom Sonucu

Zhu JUNMING, Zhao YUANYUAN, Feng FANG, Fu WEIMING, Hays RYAN, Zhang JIANMIN, Feng LI, Jin XIAO, Chen SHUDA



75



Tranethmoidal Encephalocele After Reduction of High Intracranial Pressure in Aqueductal Stenosis

Akuadukt Stenozunda Yüksek İntrakraniyal Basıncın Azaltılması Sonrasında Transetmoidal Ensefalosel

Guive SHARIFI, Ehsan ALAVI, Maryam JALESSI, Karim HADDADIAN, Faezeh FARAMARZI

Long-Term Disseminated Recurrence in Spinal Hydatid Cyst: A Case Report

78

Uzun Dönemde Yaygın Rekürrens Gösteren Spinal Hidatik Kist: Bir Olgu Sunumu

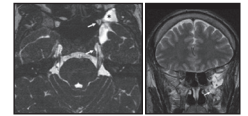
Hakan SOMAY, Erdogan AYAN, Cezmi Cagri TURK, Selin Tural EMON, Mehmet Zafer BERKMAN

Typical Trigeminal Neuralgia by an Atypical Compression: Case Report and Review of the Literature

82

Atipik Kompresyonun Neden Olduğu Tipik Trigeminal Nevralji: Olgu Sunumu ve Literatürün Gözden Geçirilmesi

Giovanni GRASSO, Marcello PASSALACQUA, Filippo GIAMBARTINO, Fabio CACCIOLA, Gerardo CARUSO, Francesco TOMASELLO



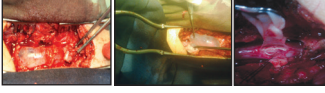
A Rare Case of Chordoma and Craniopharyngioma Treated by an Endoscopic Endonasal, Transtubercular Transclival Approach

86

Endoskopik Endonazal, Transtüberküler Transklival Yaklaşımla Tedavi Edilen Nadir Bir Kordoma ve Kraniyofarenjiyoma Olgusu

Maurizio IACOANGELI, Alessandro Dİ RIENZO, Roberto COLASANTI, Marina SCARPELLI, Maurizio GLADI, Lorenzo ALVARO, Niccolò NOCCHI, Massimo SCERRATI

90



Extradural Spinal Arachnoid Cyst Occurring in a Child: A Case Report
Bir Çocukta Oluşan Ektradural Spinal Araknoid Kist: Bir Olgu Sunumu
 Souad BAKHTI, Lila DJAADI, Fella TERKMANI, Nabila TIGHILT, Mohamed DJENNAS

94

Manic Episode Following Deep Brain Stimulation of the Subthalamic Nucleus for Parkinson's Disease: A Case Report

Parkinson Hastalığında Subtalamik Nükleusun Derin Beyin Stimülasyonu Sonrası Gelişen Manik Atak: Bir Olgu Sunumu
 Tugce TOKER UGURLU, Goksemin ACAR, Filiz KARADAG, Feridun ACAR

98

Epidural Hematoma Associated with Spinal Fracture in Diffuse Idiopathic Skeletal Hyperostosis

Difüz İdiyopatik İskelet Hiperostozunda Spinal Kırıkla İlişkili Epidural Hematom
 Ryoji TAUCHI, Shiro IMAGAMA, Kotaro SATAKE, Toshiki IWASE, Naoki ISHIGURO

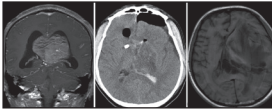


102

Solitary Juvenile Xanthogranuloma in Cervical Spine: Case Report and Review of the Literature

Servikal Omurganın Soliter Jüvenil Ksantogranülomu: Olgu Sunumu ve Literatürün Gözden Geçirilmesi
 Subhas KONAR, Paritosh PANDEY, Yasha T.C

108



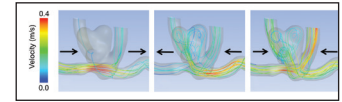
Excessive External Drainage of CSF Might Aggravate Bacterial Ventriculitis
Aşırı BOS Eksternal Drenajı Bakteriyel Ventrikülitini Şiddetlendirebilir
 Song-ping ZHENG, Guo-ping LI, Chao YOU

111

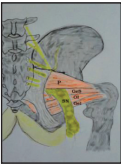
Treatment Strategy and Follow-up Evaluation for an Unruptured Anterior Communicating Artery Aneurysm Associated with Pseudo-Occlusion of the Internal Carotid Artery Using Computational Fluid Dynamics Simulations

Rüptüre Olmamış ve İnternal Karotid Arterin Psödooklüzyonuyla İlişkili Anterior Kominikan Arter Anevrizmasında Kompütasyonel Sıvı Dinamiği Simülasyonları Kullanılarak Tedavi Stratejisi ve Takip Değerlendirmesi

Kenichi KONO, Tomoaki TERADA



117



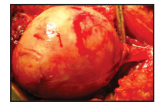
Piriformis Syndrome: A Case with Non-Discogenic Sciatalgia

Piriformis Sendromu: Nondiskojenik Siyataljili Bir Olgu
 Adem PARLAK, Aykut AYTEKIN, Sedat DEVELI, Safak EKINCI

120

Sciatic Nerve Schwannoma: Case Report

Siyatik Sinir Schwannoması: Olgu Sunumu
 Umit EROGLU, Melih BOZKURT, Ozgur OZATES, Seda AKTURK, Hakan TUNA



123

Iatrogenic Pneumothorax After Ventriculoperitoneal Shunt: An Unusual Complication and a Review of the Literature

Ventriküloperitoneal Şanttan Sonra İatrojenik Pnömotoraks: Olağandışı Komplikasyon ve Literatürün Gözden Geçirilmesi

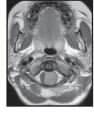
Kenichi KONO, Nagatsuki TOMURA, Hideo OKADA, Tomoaki TERADA

A Curative Treatment Option for Complex Regional Pain Syndrome (CRPS) Type I: Dorsal Root Entry Zone Operation (Report of Two Cases)

127

Kompleks Bölgesel Ağrı Sendromu (CRPS) Tip I için Küratif Tedavi Seçeneği: Dorsal Kök Giriş Bölgesi Ameliyatı (İki Olgu Sunumu)

Yucel KANPOLAT, Eyyub S. M. AL-BEYATI, Hasan Çağlar UĞUR, Gökhan AKPINAR, Gökmen KAHİLOGULLARI, Melih BOZKURT



131

Cervico-Occipital Meningioma in a 5-Year-Old Child: A Case Report

5 Yaşındaki Bir Çocukta Serviko-Oksipital Meningiom: Bir Olgu Sunumu

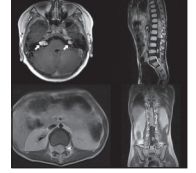
Atef BEN NSIR, Adnene BOUBAKER, Hafedh JEMEL

Spinal Intradural Malignant Peripheral Nerve Sheath Tumor in a Child with Neurofibromatosis Type 2: The First Reported Case and Literature Review

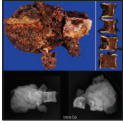
135

Nörofibromatosis Tip 2 Olan Bir Çocukta Spinal İntradural Malign Periferik Sinir Kılıfı Tümörü: İlk Bildirilen Olgu ve Literatürün Gözden Geçirilmesi

Liang WU, Xiaofeng DENG, Chenlong YANG, Yulun XU



140



Successful Treatment of a Very Rare Angiosarcoma Involving the Lumbar Spine Via En-Bloc Resection and Radiotherapy: Case Report

Çok Nadir Bir Lomber Omurga Anjiosarkomunun En-Blok Rezeksiyon ve Radyoterapi ile Başarılı Tedavisi: Olgu Sunumu

Osman Arıkan NACAR, Mustafa Onur ULU, Melike PEKMEZCI, Vedat DEVİREN, Christopher AMES

HISTORICAL VIGNETTE

146

Dr. Rollas: A Humble and Persistent Man

Dr. Rollas: Mütevazı ve Mücadeleci Bir Kişilik

Ozkan TEHLİ, Çağlar TEMİZ



LETTER to EDITOR

150

Differential Diagnosis of Carpal Tunnel Syndrome

Karpal Tünel Sendromunun Ayırıcı Tanısı

Hakan AKGUN, Mehmet YUCEL, Oguzhan OZ, Seref DEMIRKAYA

Editorial Notice

Our previous editor Hakan Caner, who made great contributions to the Turkish Neurosurgical Society and Journal of Turkish Neurosurgery, unfortunately passed away on December 18, 2013. We are saddened because of his unexpected loss, and we will always remember him and continue his legacy on this journal. We continue to work on the journal, and we will publish our January issue in a few days. Hakan Caner had already reviewed this issue during the preparation period, and we therefore did not change the editorial board for the January issue of the journal but we had to remove his name because of legal requirements. However, removing his name from the journal will not remove his name from our thoughts, and we respectfully remember Hakan Caner's legacy to our Neurosurgical Community and to our Journal. Lastly, being aware of our own responsibility as chief editor and the editorial board, we continue our work to produce a more widely cited and more effective journal.

Deniz BELEN

PROFESSOR HAKAN CANER

A Life Devoted to Neurosurgery



Hakan Caner was born on March 15, 1959 in Ankara, Turkey. His father was a colonel in the army and his mother a philosophy teacher at high school.

He graduated from Atatürk High School in Ankara with the highest marks in his class. He was placed as 34th student on the nationwide examination for university entrance. This remarkable success coupled with his decision to be a physician paved the way for his gaining entrance at Hacettepe University Medical School in Ankara.

From 1976 to 1982 he was a medical student and he received a scholarship from "The Scientific and Technological Research Council of Turkey".

He worked for 2 months as an observer in the Neurosurgery Department of Ulm University, Germany while he was a fifth grader.

After graduating from Hacettepe University he started his obligatory state service in the Gümüşhane province. In the meantime he married Dr. Biray Caner on January 10, 1983.

Dr. Biray Caner specialized in nuclear medicine and continued her career at Hacettepe University where she was eventually promoted to professor. They had 2 sons, Doruk and Kaan.

He began his residency in the Neurosurgery Department of Hacettepe University in 1984.

During 1988 and 1989, he worked as a clinical and research fellow at Department of Neurosurgery of Fukui University, Japan. He also worked in the universities of Gunma and Keio for 4 weeks observing stereotactic surgery. He worked at the Kassel laboratory in the Neurosurgery Department of Virginia University. He mainly focused on cerebral ischemia and vasospasm. He received his specialist degree on 1992.

My personal contact with Hakan Caner began in the early nineties. He was recognized as an outstanding, promising young resident at the Neurosurgery Department of Hacettepe University. I thought it would be a good idea to work with him

and phoned him only explaining my idea without any specific proposal.

The conversation did not last long and his answer was positive. We began thinking about how we could work together in a center where we could enjoy our practice.

President Turgut Özal was greatly supportive of İnönü University in the province of Malatya located in eastern Turkey. The university had a collaboration protocol with Baylor College of Medicine, in Houston, Texas and faculty members were scheduled to work there for approximately a year and a half. We made attempts to secure collaboration with the administration of İnönü University. After a time a new private university was established in Ankara, Turkey. It was Başkent University,

Professor Mehmet Haberal, a general surgeon, was the founder and first rector. He is an ambitious and hard-working doctor who performed the first renal and liver transplants in the country. He pioneered several new developments and innovations in transplant surgery and also spent a great amount of time preparing and passing of the law "Harvesting, Storage, Grafting and Transplant of Organs and Tissues".

This new collaboration prompted us to work with Başkent University. Hakan and I corresponded frequently while he was in the United States and discussed future plans.

Shortly after his return from Virginia University in 1993, he began working at Başkent University.

My appointment as the Chairman on January 15, 1995 marked the establishment of the Neurosurgery Department that consisted of only 2 faculty members at that time. We did everything together and we shared everything.

The department had the first 2 residents late in 1995. In the following years, the department gradually developed with addition of new colleagues and new residents.

Dr. Caner continued in his career at Başkent University. He became an associate professor in 1997 and was promoted to a Professor on 2002.

He worked in the Kassel laboratory for the second time for 2 months in 1994 and was called a visiting professor.

His daily practice included degenerative, traumatic and infectious spinal cases and adult spinal deformities. He performed percutaneous spinal instrumentation combined with minimally invasive transforaminal lumbar interbody fusion (Mis-TLIF). He was one of the most experienced spinal surgeons to practice surgery related to atlantoaxial fusion.

Dr. Caner and I participated together doing live kyphoplasty at Murnau Germany and postmortem surgery in Leiden, Holland in June 2002. Consequently our department was one of the first units and Hakan was a leading surgeon performing



percutaneous vertebral augmentation procedures in the country.

Başkent University initiated hospitals in Adana, Alanya, Konya, Izmir and İstanbul.

We established neurosurgery units at those centers. Dr. Caner and I went on to help our younger colleagues with complex surgical interventions. We also supported neurosurgeons advance academically at these hospitals and worked as an integrated team.

Dr. Caner's duties at Başkent University included membership in the executive committee of the medical faculty and in the committee of postgraduate education in medicine and the neuropsychiatry research center.

He was awarded several national and international prizes throughout his career. He received 3 research awards from the Turkish Neurosurgical Society (TNS). In 1991, the Angiology Society of America gave him the Award for Young Researchers. The Senate of Hacettepe University gave him the award of Scientific Success. In 1998 he received an award from "The Scientific and Technological Research Council of Turkey".

Since 2007, he has been editor-in-chief for 2 official journals of the TNS. He exhibited good example of being a group leader. He and his coworkers spent zealous energy in harmony. The journals are enlisted both on Science Citation Index Expanded and PubMed with an impact factor 0.58.

Hakan Caner assumed different responsibilities in the TNS; he was a member of the executive committee and worked actively in the spinal and peripheral nerve surgery subgroup. He contributed to the activities of Turkish Spine Surgery (TSS) where he contributed to the development of academic curriculum.

A brief summary of his scientific publications reveals 78 articles of clinical and research, 45 articles of case reports, a technical note and letter to the editor published in journals included in the Science Citation Index Expanded. There were 14 articles published in peer-review journals that are included in international indexes but not in the Science Citation Index Expanded.

He published 36 articles in Turkish, has written 7 chapters in international books and 10 chapters in Turkish books. He was the editor of a Turkish book along with 103 presentations at international and 135 presentations at national scientific meetings.

His last project that sought to provide resistance to adhesion of bacteria to shunt catheters by using a plasma polymerization technique was performed in cooperation with Hacettepe University and supported by the European union.

Dr. Caner was deeply patient-oriented and did everything for the welfare of his patients. His approach was beyond the simple doctor-patient relationship. Instead he regarded

them as close and beloved relatives. He developed similar relationships with colleagues. He was kind and gentle to everybody and was unable to say "no".

His main hobbies were reading and sports. His areas of interest for reading were diverse, He enjoyed swimming regularly but could not run because of spinal surgery he had undergone many years ago. So he used to walk and did not quit even when he became ill.

In February 2011, examinations revealed gastric carcinoma. He underwent radical surgery in Japan, and after resting for a time started working full-time again. He enjoyed all his clinical, surgical and academic activities and did well until March 2013 when his disease recurred. His struggle for survival deserves

great appreciation. He underwent radiotherapy, heavy episodes of chemotherapy, and complications related to these therapies, but he stood firm and full of hope although he knew the prognosis of the illness.

He died at 7:50 AM, on December 18, 2013 at Başkent University Hospital where he served for more than 20 years. His wife and older son were at his bedside holding his hand.

The admirable life he lived, his academic achievements, scientific contributions and devotion to his profession made him one of the outstanding doctors of the Turkish neurosurgical community. I hope his work and memory will be an example for generations to come.

Prof. Mehmet Nur ALTINÖRS, MD