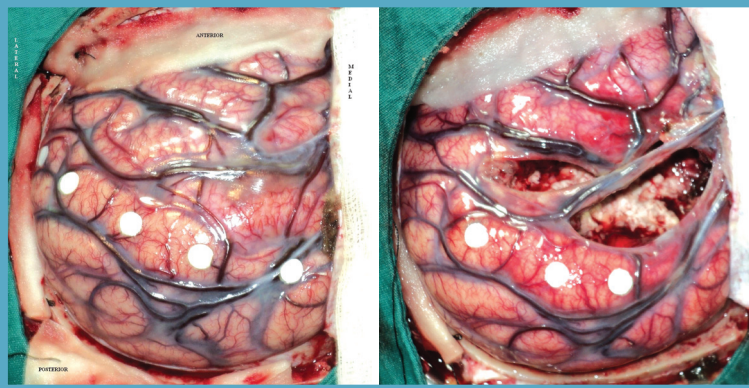


Turkish Neurosurgery

Official Journal of the Turkish Neurosurgical Society

ISSN 1019-5149 - NLM ID 9423821
VOLUME 25 - NUMBER 2 - YEAR 2015



*UNESCO World Cultural Heritage of Edirne:
Selimiye Mosque Complex*

*Primary Pineal Malignant Melanoma - Illustrated
Review*

*Surgical and Anesthesiological Considerations of
Awake Craniotomy: Cerrahpasa Experience*

*Three-Dimensional Anatomical Landmarks of the
Sphenoid Ostium for a Safer Transsphenoidal
Approach*

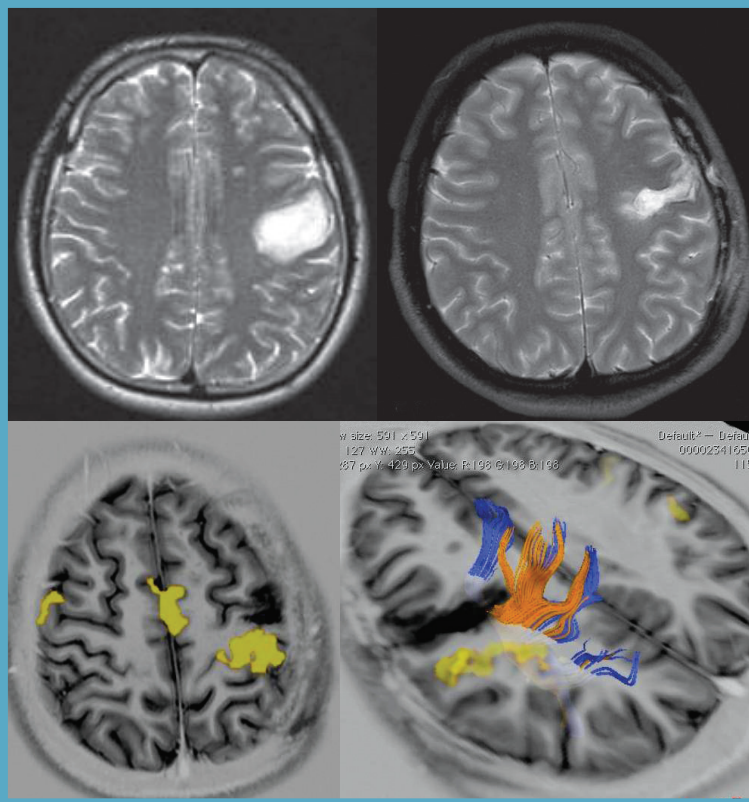
*Increased Osseous Thickening of the Inner Surface of
the Frontal Bone*

*Microsurgery with or without Neuroendoscopy in
Petroclival Meningiomas*

*Comparison of Bilateral Decompression via
Unilateral Approach and Classic Laminectomy
in Patients with Lumbar Spinal Stenosis:
A Retrospective Clinical Study*

*Superior Medullary Velum: Anatomical-Histological
Study in the Sheep Brain and a Preliminary
Tractographic Study in the Human Brain*

*Local Application of Corticosteroids Combined with
Surgery for the Treatment of Chronic Subdural
Hematoma*





Turkish Neurosurgery

Official Journal of the Turkish Neurosurgical Society

TURKISH NEUROSURGICAL SOCIETY

Volume: 25 Number: 2 Year: 2015

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
M. Kemal 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	2012-2014
Zeki Şekerci	2014-

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	2014-2015
Talat Kırış	2015-

Turkish Neurosurgery has been accepted
for indexing in:

SCIENCE CITATION INDEX EXPANDED
INDEX MEDICUS, MEDLINE, PubMed,
Scopus

Impact Factor* : 0.529
5yr-Impact Factor* : 0.694

*ISI Web of KnowledgeSM, Journal Citation
Reports[®], 2013 JCR Science Edition

Editor-in-Chief:

Talat Kırış : turkishneurosurgery@gmail.com

Editor:

Cem Yılmaz : cemerimiyilmaz@gmail.com

Editors of Sections:

Dattatraya Muzumdar (Editor of Neurooncology Section)	: dmuzumdar@hotmail.com
Hidenori Kobayashi (Editor of Cerebrovascular Section)	: hidek-fchs@kbh.biglobe.ne.jp
M. Kemal Baykaner (Editor of Pediatric Neurosurgery Section)	: baykaner@yahoo.com
R. Kemal Koç (Editor of Spinal Surgery Section)	: kocrk@erciyes.edu.tr
Klaus Von Wild (Editor of Neurotrauma Section)	: kvw@neurosci.de
Selçuk Peker (Editor of Stereotactic and Functional Section)	: selcuk@selcukpeker.com

Associate Editors:

Selim Ayhan : selim_ayhan@yahoo.com	Yusuf İzci : yizci@gata.edu.tr
Denizhan Divanlıoğlu : ddivanlioglu@gmail.com	Hakan Karabağlı : hakankarabagli@yahoo.com
Hakan Emmez : hakanemmez@gmail.com	Hayri Kertmen : hayri_kertmen@yahoo.com
Salih Gülşen : salihgulsen07@gmail.com	Ali Erdem Yıldırım : alierdemyildirim@gmail.com

ADVISORY BOARD

Feridun Acar, <i>Turkey</i>	Atul Goel, <i>India</i>	Selçuk Peker, <i>Turkey</i>
Gokhan Akdemir, <i>Turkey</i>	Ziya Gökaslan, <i>USA</i>	Guilherme Carvalhal Ribas, <i>Brasil</i>
Nejat Akalan, <i>Turkey</i>	Murat Günel, <i>USA</i>	Concezio Di Rocco, <i>Italy</i>
Ossama Al-Mefty, <i>USA</i>	Murat Hancı, <i>Turkey</i>	James T. Rutka, <i>Canada</i>
Nur Altınörs, <i>Turkey</i>	Juha Hernesniemi, <i>Finland</i>	Burak Sade, <i>Turkey</i>
Nuri Arda, <i>Turkey</i>	Servet İnci, <i>Turkey</i>	Majid Samii, <i>Germany</i>
Ali Arslantaş, <i>Turkey</i>	Juha E Jääskeläinen, <i>Finland</i>	Ali Savaş, <i>Turkey</i>
Emel Avcı, <i>Turkey</i>	Erkan Kaptanoğlu, <i>Turkey</i>	Daniel Sciubba, <i>USA</i>
Şükrü Aykol, <i>Turkey</i>	Feyza Karagöz Güzey, <i>Turkey</i>	Laligam Sekhar, <i>USA</i>
Mustafa K. Başkaya, <i>USA</i>	Takesi Kawase, <i>Japan</i>	Nathan Selden, <i>USA</i>
Murad Bavbek, <i>Turkey</i>	Andrew H. Kaye, <i>Australia</i>	İhsan Solaroğlu, <i>Turkey</i>
Ahmet Bekar, <i>Turkey</i>	Memduh Kaymaz, <i>Turkey</i>	Robert F. Spetzler, <i>USA</i>
Ahmet Deniz Belen, <i>Turkey</i>	M. Yaşar Kaynar, <i>Turkey</i>	Alparslan Şenel, <i>Turkey</i>
Edward C. Benzel, <i>USA</i>	Evren Keleş, <i>Turkey</i>	Sait Şirin, <i>Turkey</i>
Mustafa Berker, <i>Turkey</i>	Kadir Kotil, <i>Turkey</i>	Necmettin Tanrıöver, <i>Turkey</i>
Ethem Beşkonaklı, <i>Turkey</i>	Basant Kumar Misra, <i>India</i>	Morcos Tatagiba, <i>Germany</i>
Luis Borba, <i>Brasil</i>	Boris Krischek, <i>Germany</i>	Nicolas De Tribollet, <i>Switzerland</i>
Kim Burchiel, <i>USA</i>	Ali Krishit, <i>USA</i>	Uğur Türe, <i>Turkey</i>
Paolo Capabianca, <i>Italy</i>	Jacques Morcos, <i>USA</i>	Tanju Uçar, <i>Turkey</i>
Fady Charbel, <i>USA</i>	Melike Mut, <i>Turkey</i>	Ağahan Ünlü, <i>Turkey</i>
Şükrü Çağlar, <i>Turkey</i>	Sait Naderi, <i>Turkey</i>	Peter Vajkoczy, <i>Germany</i>
Mehmet Daneyemez, <i>Turkey</i>	Evandro de Oliveira, <i>Brasil</i>	M. Gazi Yaşargil, <i>USA</i>
Gilbert Deschambenoit, <i>France</i>	Kenji Ohata, <i>Japan</i>	Selçuk Yılmazlar, <i>Turkey</i>
İlhan Elmacı, <i>Turkey</i>	Nezih Oktar, <i>Turkey</i>	Mehmet Zileli, <i>Turkey</i>
Micheal Fehlings, <i>Canada</i>	Necmettin Pamir, <i>Turkey</i>	İbrahim M. Ziyal, <i>Turkey</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: 25 Number: 2 Year: 2015

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:
Zeki ŞEKERCI

Publishing Manager:
Tanju UÇAR

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: 1300 copies.

Printing Date: 27.03.2015

Cover picture: Sanus, p. 213

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@turknorosirurji.org.tr
www.turknorosirurji.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).



ENVIRONMENTAL INFORMATION

The company that manufactures the paper used in this journal has an ISO 14001 environmental management certificate. The company obtains all wood fiber in a sustainable manner. The forests and plantations of the company are certified. The water used in production is purified and used after recovery.

Heavy metals or film are not used for the publication of this journal. The fluids used for developing the aluminum printing templates are purified. The templates are recycled. The inks used for printing do not contain toxic heavy metals.

This journal can be recycled. Please dispose of it in recycling containers.

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: TurkishNeuro-Excursion, Original Investigation (Clinical and Experimental Studies), Review Article, Article with Videoclip, Case Report, Case Illustration, Technical Note, Historical Perspective and Letter to the Editor.

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:** The title page should include:
 - (a) complete manuscript title (brief, definite and didactic),
 - (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 acknowledgement,
- (f) any other acknowledgement the authors wish to include. Please verify that the spelling, order, and affiliation of each author are correct.
- (g) the title page must be uploaded as a separate file

The Journal is not responsible for published misspelled names due to author error.

A Running Head should also 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 and Key Words.

The following subheads must be included in the Structured Abstract *only for clinical and experimental research papers*: **Aim (Background), Material and Methods, Results, Conclusion.** 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 Turkish Neuro-Excursion, Review Article, Case Report, Case Illustration, Technical Note, Historical Perspective and Letter to the Editor sections.

3) Text: Organize the manuscript into five main headings:

Introduction, Material and Methods, Results, Discussion, and Conclusion.

For Clinical Trials, Experimental and Anatomic Studies as well as 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:

Turkish Neuro-Excursion: The editor will invite connoisseurs for these special type of papers which may cover a broad spectrum in various fields of medicine, science, art, history, law as well as any important theme on actuality other than core neurosurgery. The number of words, figures, tables and references are not restricted.

Original Investigation, Review, Article with Videoclip, and Historical Perspective: 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. The number of figures, tables, videos and references are not restricted. The specifications for video files are given at part 6.

Case Report: Word count must not exceed 1000 (excluding references, tables, and figure legends). Case reports cannot have more than 4 authors, 15 references, and 4 figures or tables.

Case Illustration: The number of words must not exceed 500 (excluding references, tables, and figure legends). There is a restriction for only 2 figures and 10 references.

Technical Note: The number of words must not exceed 1000, and there should not be more than 4 authors or 15 references. The number of figures and tables are not restricted.

Letter to the Editor: These can also be submitted through Editorial Manager. Letters should refer to the title and authors of a recent *Turkish Neurosurgery* article. The letter should be no longer than 300 words with no more than 3 references. Unpublished data should not be used. 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.

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 within parentheses*. 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 the 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:

A. Journal article

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

B. 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

C. 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

D. Entire book

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

E. Example of thesis

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

F. Software

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

G. 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

H. Database

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

I. 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>"

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

B. Sizing and Resolution:

Line art must have a resolution of at least 1200 dpi (dots per inch).

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 related web-based programs or softwares.

C. 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 color figures with free of charge which will enhance the quality of an article.

6) Videos:

Videos will be published as a part of "Article with Videoclip" manuscripts. Videoclips must be the property of author(s). The copyright issues are similar to the other parts of the Turkish Neurosurgery Journal that was aforementioned. These videoclips may replace of a figure or figures of an article. They must include an embedded audio narration and subtitles in English. The proper formats are .avi, .mpeg and .mp4. The file size is restricted to a maximum of 40 MB. The runtime should not be longer than 10 minutes. To upload a video more than mentioned size, please contact with the editorial office.

7) Research Reporting Guidelines:

The authors should consult the following guidelines* in accordance with the type of research.

- A. Consolidated Standards of Reporting Trials (CONSORT) for randomized trials.
- B. Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) for systematic reviews and meta-analyses.
- C. Meta-Analysis of Observational Studies in Epidemiology (MOOSE) for observational studies of systematic reviews and meta-analyses.
- D. Strengthening the Reporting of Observational Studies in Epidemiology (STROBE) for observational articles.
- E. Standards for the Reporting of Diagnostic Accuracy Studies (STARD) for the studies of diagnostic accuracy.

*It is possible for the authors to reach these guidelines through internet.

8) 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.

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 72 hours of receipt, as requested in the cover letter accompanying the page proofs.

Publisher's contact details: Fax or e-mail corrected page proofs, and any other related materials to Journal Production Editor, Türk Nöroşirürji Derneği, Taşkent Caddesi 13/4, Bahçelievler-06500 Ankara, TURKEY.
Phone: +90 312 212 64 08 Fax: +90 312 215 46 26

Reprints: Reprint requests should be faxed or e-mailed with the corrected proofs by the corresponding author, if needed. Reprints are normally shipped 6 to 8 weeks after publication of the issue in which the item appears. Contact with the Publisher: Bulus Tasarım, Bahriye Üçok Caddesi 9/1, Beşevler, Ankara, TURKEY.
Phone: +90 312 222 44 06 Fax: +90 312 222 44 07
e-mail: bulus@bulustasarim.com.tr

The price for 2 sets of Hardcopy journal + shipping is approximately* 100 TL (~35 EUR).

**Depend on shipping cost. Please contact Bulus Tasarım.*

Manuscript Checklist (before submission. For author reference only)

1. Title page
 - Title (brief, definite, didactic)
 - 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
 - Acknowledgements 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 (without author names and affiliations)
4. Figure legends
5. Tables (Word, Wordperfect)
6. Figures (jpeg)
7. Videos (avi, mpeg, mp4)
8. References double-spaced and cited in alphabetical order

TURKISH NEURO-EXCURSION

197

UNESCO World Cultural Heritage of Edirne: Selimiye Mosque Complex*Edirne'nin UNESCO Dünya Kültür Mirası: Selimiye Camii Külliyesi*

Ender BILAR



REVIEW

201

Primary Pineal Malignant Melanoma - Illustrated Review*Primer Pineal Malign Melanom - Görsellerle Gözden Geçirme*

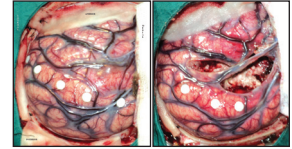
Ahitagni BISWAS, Pritee B CHAUDHARI, Sujith Kumar M, Elanthenral SIGAMANI, Meher Chand SHARMA, Samir Kumar KALRA, Pramod Kumar JULKA, Goura Kishor RATH

ORIGINAL INVESTIGATIONS

210

Surgical and Anesthesiological Considerations of Awake Craniotomy: Cerrahpasa Experience*Uyanık Kraniotominin Cerrahi ve Anestezi Hususları: Cerrahpasa Deneyimi*

Galip Zihni SANUS, Odhan YUKSEL, Yusuf TUNALI, Cigdem OZKARA, Naz YENI, Fatma OZLEN, Taner TANRIVERDI, Emin OZYURT, Mustafa UZAN



218

Three-Dimensional Anatomical Landmarks of the Sphenoid Ostium for a Safer Transsphenoidal Approach*Daha Güvenli bir Transsfenoidal Yaklaşım için Sfenoid Deliklerin Üç Boyutlu Anatomik Kılavuz Noktaları*

Figen GOVSA, Mehmet Asim OZER

224

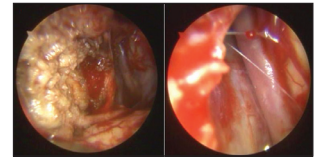
Increased Osseous Thickening of the Inner Surface of the Frontal Bone*Frontal Kemik İç Yüzünde Artmış Kemiksi Kalınlaşma*

Figen GOVSA, Mehmet Asim OZER, Yelda PINAR, Murat SEZAK

231

Microsurgery with or without Neuroendoscopy in Petroclival Meningiomas*Nöroendoskopi ile veya Olmadan Petroklival Menenjiyomlarda Mikrocerrahi*

Qing-Jiu ZHOU, Bo LIU, Dangmuren-Jiafu GENG, Qiang FU, Xiao-Jiang CHENG, Kaheerman KADEER, Guo-Jia DU, Yong-Xin WANG, Xin-Ping LUAN

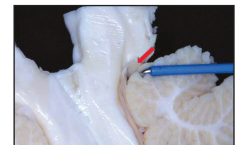


239

A Comparison of Bilateral Decompression via Unilateral Approach and Classic Laminectomy in Patients with Lumbar Spinal Stenosis: A Retrospective Clinical Study*Lomber Dar Kanalı Olan Hastalarda Tek Taraflı Girişimle İki Taraflı Dekompresyonun Klasik Laminektomi ile Karşılaştırılması: Bir Retrospektif Klinik Çalışma*

Onur YAMAN, Nail OZDEMIR, Ahmet Turan DAGLI, Erdem ACAR, Sedat DALBAYRAK, Cuneyt TEMİZ

246

Superior Medullary Velum: Anatomical-Histological Study in the Sheep Brain and a Preliminary Tractographic Study in the Human Brain*Süperior Meduller Velum: Koyun Beyninde Anatomik-Histolojik Çalışma ve İnsan Beyninde Ön Traktografik Çalışma*

Nuriye Guzin OZDEMIR, Merih IS, Süheyla Uyar BOZKURT, Kaya KILIC, Askin SEKER

252

Local Application of Corticosteroids Combined with Surgery for the Treatment of Chronic Subdural Hematoma

Kronik Subdural Hematom Tedavisinde Cerrahi ile Kombine Olarak Lokal Kortikosteroid Uygulaması

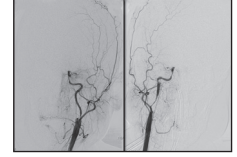
Xiao-Ping XU, Cong LIU, Jian LIU, Yuan-Guang PANG, Xu-Dong LUO, Jun FU, Liang ZHOU, Ying-Zhong FAN

256

Diagnosis of Brain Death by Orbital Doppler Ultrasound: A Comparative Research Study

Orbital Doppler Ultrasonografi ile Beyin Ölümü Tanısı: Karşılaştırmalı Araştırma

Oktay ALGIN, Gokhan GUNDOGDU, Seval IZDES, Guven Evren KELES, Ihsan SOLAROGLU



263

A Combined Bilateral Approach to Anterior Communicating Artery Aneurysm

Anterior Komünikan Arter Anevrizmasına Kombine Bilateral Yaklaşım

Yong-An CHEN, Rong-Bo QU, Yu-Song BIAN, Wei ZHU, Kun-Peng ZHANG, Qi PANG

269

Management of Type II Odontoid Fractures for Osteoporotic Bone Structure: Preliminary Report

Osteoporotik Kemik Yapısına Sahip Tip 2 Odontoid Kırıklarının Tedavisi: Ön Rapor

Murat COSAR, A Fahir OZER, Bahadır ALKAN, Mustafa GUVEN, Tarik AKMAN, Adem Bozkurt ARAS, Davut CEYLAN, Mehmet TOKMAK



273

The Role of Vagal Nerve Root Injury on Respiration Disturbances in Subarachnoid Hemorrhage

Subaraknoid Kanamada Solunum Bozuklukları Oluşmasında Vagal Sinir Kökü Hasarının Rolü

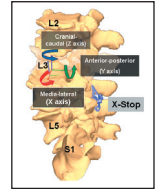
Murteza CAKIR, Canan ATALAY, Zeynep CAKIR, Mucahit EMET, Mehmet Dumlu AYDIN, Nazan AYDIN, Arif ONDER, Muhammed CALIK

279

X-Stop® Implantation Effectively Limits Segmental Lumbar Extension in-vivo without Altering the Kinematics of the Adjacent Levels

X-Stop® İmplantasyonu Komşu Seviyelerde Kinematik Özellikleri Değiştirmeden in vivo Segmental Lumbar Ekstansiyonu Etkin Şekilde Sınırlar

Zongmiao WAN, Guoan LI



285

The Evaluation of Three-Dimensional Anatomy of the Superficial Temporal Artery Using the Volume Rendering Technique

Süperfisiyal Temporal Arterin Üç Boyutlu Anatomisinin Hacim Görüntüleme Tekniği Kullanılarak Değerlendirilmesi

Enis KURUOGLU, Cengiz COKLUK, Abdullah Hilmi MARANGOZ, Kerameddin AYDIN

289

The Anatomical Variations in the Neurovascular Relations of the Sphenoid Sinus: An Evaluation by Coronal Computed Tomography

Sfenoid Sinüsün Nörovasküler İlişkilerinin Anatomik Varyasyonları: Koronal Bilgisayarlı Tomografiye Değerlendirme

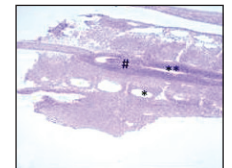
Priyadarshini D, Latha V PRABHU, Ashvini KUMAR, Mangala M PAI, Dananjay KVN

294

Effects of the Popular Food Additive Sodium Benzoate on Neural Tube Development in the Chicken Embryo

Yaygın Olarak Kullanılan Gıda Katkı Maddelerinden Sodyum Benzoatın Tavuk Embriyosunda Nöral Tüp Gelişimi Üzerine Etkileri

Selin TURAL EMON, Metin ORAKDOGEN, Serap USLU, Hakan SOMAY



298

Increase in Folate Receptor Alpha Expression in Nonfunctional Pituitary Adenomas

Fonksiyonel Olmayan Hipofiz Adenomlarında Folat Reseptörü Alfa Ekspresyonunda Artış

Zhemín DING, Bing LI, Qing WANG, Yifeng MIAO, Xiaojie LU



305

Treatment of Supraclinoid Internal Carotid Artery Iatrogenic Pseudoaneurysm with Extracranial-to-Intracranial Bypass and Trapping: Demonstration of Technique with Video Presentation

Supraklinoid İnternal Karotid Arter Psödoanevrizmasınının Kafa Dışı-Kafa İçi Bypass ve Damarsal Tuzaklama ile Tedavisi: Tekniğin Video ile Gösterimi

Ulas CIKLA, Yiping LI, Silvia HERNÁNDEZ-DURÁN, Abdalbaki KOZAN, Mustafa K. BASKAYA

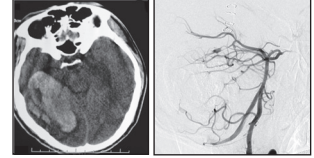
CASE REPORTS

310

Management of Consecutive Development of Ruptured Intracranial Mycotic Aneurysms: Case Report

Arka Arkaya Gelişen Rüptüre İnttrakraniyal Mikotik Anevrizmaların Takibi: Olgu Sunumu

Ke WANG, Jiping SUN, Xiang ZHANG, Quanbin ZHANG, Zuoquan CHEN



313

Total Resolution of Large Scalp Swelling due to Calvarial Tuberculosis with Medical Management Only: Case Report and Review of the Literature

Kalvariyal Tüberküloz Nedeniyle Geniş Saçlı Deri Şişmesinin Sadece Tıbbi Yaklaşımla Tamamen Geçmesi: Olgu Raporu ve Literatür Derlemesi

Pankaj DAWAR, Guru Dutta SATYARTHEE, Bhawani S. SHARMA

317

Skull Base Fracture Involving the Foramen Spinosum – an Indirect Sign of Middle Meningeal Artery Lesion: Case Report and Literature Review

Foramen Spinosumu Kapsayan Kafa Kaidesi Kırığı – Orta Meningeal Arter Lezyonunun Dolaylı Bir İşareti: Olgu Raporu ve Literatür Derlemesi

Guilherme Brasileiro de AGUIAR, João Miguel de ALMEIDA SILVA, Rodrigo Becco de SOUZA, Marcus André ACIOLY

320

Thoracic Epidural Blood Patch for Spontaneous Intracranial Hypotension: Case Report and Review of the Literature

Spontan İnttrakraniyal Hipotansiyon için Torasik Epidural Kan Yaması: Olgu Raporu ve Literatür Derlemesi

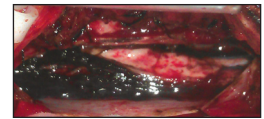
Fady GIRGIS, Molly SHING, Stephan DUPLESSIS

326

Subdural Extramedullary Melanotic Schwannoma of the Thoracic Spinal Cord: A Case Report

Torasik Omuriliğin Subdural Ekstramedüller Melanotik Şıvanomu: Bir Olgu Raporu

Dawei CHEN, Weihong GU



332

Pure Lymphocytic Infundibuloneurohypophysitis Caused by the Rupture of Rathke's Cleft Cyst: Report of 2 Cases and Review of the Literature

Rathke Yarığı Kisti Rüptürü Nedeniyle Saf Lenfositik İfundibulonörohipofizit: İki Olgu Sunumu ve Literatür Derlemesi

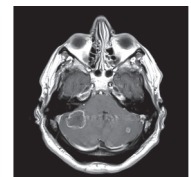
Yasuhiko HAYASHI, Masahiro OISHI, Daisuke KITA, Takuya WATANABE, Osamu TACHIBANA, Jun-ichio HAMADA

337

Intracranial Giant Tuberculoma Mimicking Brain Tumor: A Case Report

Beysin Tümörünü Taklit Eden İnttrakranial Dev Tüberküloz: Bir Olgu Sunumu

Sua SUMER, Ender KOKTEKIR, Nazlim AKTUG DEMIR, Gokhan AKDEMIR



340

Multi-Level, Bilateral Pedicle Fractures: Case Report

Çok Seviyeli, İki Taraflı Pedikül Kırıkları: Olgu Sunumu

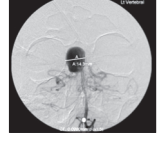
Nuri KARABAY, Eren OZER, Emel ADA

344

Minimally Invasive Treatment of Biventricular Hydrocephalus Caused by a Giant Basilar Apex Aneurysm via a Staged Combination of Endoscopy and Endovascular Embolization: A Case Report

Endoskopi ve Endovasküler Embolizasyonun Kademeli Kombinasyonu Yoluyla Dev Baziller Apeks Anevrizmasının Neden Olduğu Biventriküler Hidrosefalinin Minimal İnvaziv Tedavisi: Bir Olgu Sunumu

Pradeep SETTY, Andrey VOLKOV, Boyd RICHARDS, Ryan BARRETT



TECHNICAL NOTE

350

Application of Three-Dimensional Computerized Tomographic Angiography in the Planning of Pterional Scalp Incision to Preserve the Superficial Temporal Artery

Süperfisiyal Temporal Arteri Korumak için Pterional Skalp İnsizyonunda Üç Boyutlu Bilgisayarlı Tomografik Anjiyografinin Kullanılması

Enis KURUOGLU, Cengiz COKLUK, Abdullah Hilmi MARANGOZ, Kerameddin AYDIN

Editorial Notice

Dear Colleagues,

With the March 2015 issue Neurotrauma Section Editor post is delivered to Prof. Dr. Klaus Von Wild, and Prof. Dr. Hakan Karabađlı and Assoc. Prof. Dr. Hayri Kertmen has joined our editorial team.

I want to thank Prof. Dr. Minoru Fujiki, Assoc. Prof. Dr. Hakan Seękin and Assoc. Prof. Dr. Onur Ulu for their valuable contributions to Turkish Neurosurgery, as the Neurotrauma section editor and Associate Editors, respectively.

'Turkish Neurosurgery' has been one of the most outstanding journals in the field of Neurosurgery and we are aware of the responsibility on us. I am sure that every single member of Turkish Neurosurgical Society will help us in increasing the scientific level of our journal. Your feedbacks are very important for us in managing this hard work.

I want to remind you once again that both clinical and experimental research papers need Ethics Committee Approval before being considered for publication, therefore it is mandatory to attach the Ethic Committee Approval Certificate while submitting your papers.

Talat KIRIŞ