



# The Anatolian Journal of Cardiology

Anatol J Cardiol • Volume 25 • Issue 6 • June 2021

## Editor-in-Chief

Çetin Erol

## Editors

Cem Barçın

Asife Şahinarslan

## Advisory Board of This Issue

Barış Akdemir  
Zehra Ilke Akyıldız  
Harun Arbatlı  
Saide Aytelkin  
Mehmet Zihni Bilik  
Alparslan Birdane  
Engin Bozkurt  
Ender M. Coşkunpınar  
Hüseyin Altuğ Çakmak  
Alp Burak Çatakoğlu  
Hülya Çiçekçiöğlü  
Tolga Çimen  
Abdullah Tuncay Demiryürek  
Ömer Faruk Doğan  
Murat Ersanlı  
Mustafa Güleç  
Zeki Yüksel Günaydın  
Erdoğan İlkay  
Erkan İriz  
Asuman Kaftan  
Turgut Karabağ  
Cevdet Uğur Koçoğulları  
Ertuğrul Kurtoğlu  
Şeref Alp Küçükler  
Ertürk Levent  
Kaan Okyay  
Ersel Onrat  
Gökmen Özdemir  
Öztürk Özdemir  
Pelin Karaca Özer  
Yasemin Özkan  
Recep Oktay Peker  
Sirbu Prisecaru Raluca  
Tamer Sayın  
Bilge Özsait Selçuk  
Özge Özden Tok  
Sedef Tunaoğlu  
Abdullah Tunçez  
Burak Turan  
Murat Uğur  
Orhan Uzun  
Sinan Varol  
Ahmet Uğur Yalçın  
Ayşe Saatçi Yaşar  
Dilek Yeşilbursa  
Selman Vefa Yıldırım  
Hikmet Yorgun  
Genço Yücel  
Uygur Çağdaş Yüksel

## Scientific Letter

Diabetes and mortality in patients with COVID-19: Are we missing the link?  
Alessandro Sticchi et al.; Rome-Italy

## Education

Incomplete right bundle branch block: Challenges in electrocardiogram diagnosis  
Mariana Floria et al.; Iasi-Romania

## Original Investigations

Carotid artery stenting with a multidisciplinary team  
Erkan Köklü et al.; Antalya-Turkey

Rotational atherectomy in severely/moderately calcified coronary lesions  
Shuvanan Ray et al.; Kolkata-India

Terumo radial Band® and PreludeSYNC hemostasis compression device  
Jahanzeb Malik et al.; Rawalpindi-Pakistan

Cardiac autonomic stress during sleep deprivation  
Özge Bozer et al.; Edirne-Turkey

Molecular analysis on atrial fibrillation  
Haoliang Sun et al.; Jiangsu-China

Identifying the key microRNAs implicated in AF  
Yuejuan Cao and Li Cui; Tianjin-China

Effect of functional mitral regurgitation on pulmonary hemodynamics  
Zübeyde Bayram et al.; Istanbul-Turkey

## Case Reports

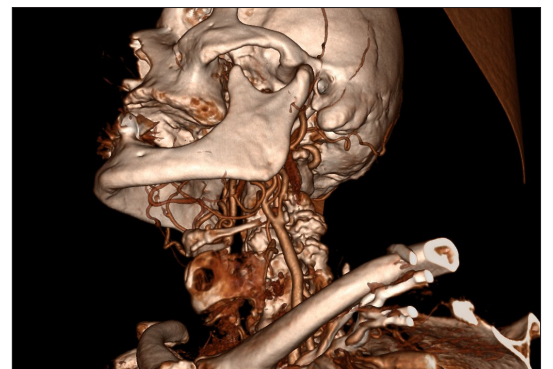
Association of interrupted aortic arch, aortopulmonary window with anomalous origin of the right pulmonary artery from the aorta, one-stage repair and postoperative outcomes: A case report  
Yasemin Nuran Dönmez et al.; Ankara-Turkey

Kounis syndrome: Is ceftriaxone or metronidazole responsible for acute myocardial infarction? A rare case  
Abdulkadir Çakmak and Gökhan Keskin; Amasya-Turkey

Successful atrioventricular nodal reentrant tachycardia ablation in a female patient with left isomerism  
Gökay Nar and Alperen Emre Akgün; Denizli-Turkey

Transcaval transcatheter aortic valve replacement through abdominal aortic aneurysm in a patient with no option for other vascular access  
Ertan Vuruşkan et al.; Gaziantep-Turkey

Page: 385



**Editor-in-Chief**

Prof. Dr. Çetin Erol, Ankara, Turkey

**Editors**

Cem Barçın, Ankara, Turkey

Asife Şahinarslan, Ankara, Turkey

**Associate Editors**

Adnan Abacı, Ankara, Turkey

Rüçhan Akar, Ankara, Turkey

Nihal Akar Bayram, Ankara, Turkey

Bülent Behlül Altunkeser, Konya, Turkey

Serdar Arslan, Sivas, Turkey

İlyas Atar, Ankara, Turkey

Oben Baysan, Ankara, Turkey

Ahmet Kaya Bilge, İstanbul, Turkey

Hakim Çelik, Şanlıurfa, Turkey

Recep Demirbağ, Şanlıurfa, Turkey

Ş. Remzi Erdem, Ankara, Turkey

İlkay Erdoğan, Ankara, Turkey

Faruk Ertaş, Diyarbakır, Turkey

Sadi Güleç, Ankara, Turkey

Ali Gürbüz, İzmir, Turkey

Gökhan Kahveci, İstanbul, Turkey

Alper Kepez, İstanbul, Turkey

Teoman Kılıç, Kocaeli, Turkey

Ece Konaç, Ankara, Turkey

Serdar Kula, Ankara, Turkey

Selma Metintaş, Eskişehir, Turkey

Kurtuluş Özdemir, Konya, Turkey

Murat Özeren, Mersin, Turkey

Leyla Elif Sade, Ankara, Turkey

Ahmet Temizhan, Ankara, Turkey

Belma Turan, Ankara, Turkey

Ercan Tutar, Ankara, Turkey

Omaç Tüfekçioğlu, Ankara, Turkey

F. Aylan Tükün, Ankara, Turkey

Taner Ulus, Eskişehir, Turkey

Mehmet Uzun, İstanbul, Turkey

Aylin Yıldırım, Ankara, Turkey

Mehmet Birhan Yılmaz, İzmir, Turkey

**Senior Consultant in Biostatistics**

Kazım Özdamar, Eskişehir, Turkey

**Consultant in Biostatistics**

Fezan Mutlu, Eskişehir, Turkey

**Previous Editor-in-Chief**

Bilgin Timuralp, Eskişehir, Turkey

**Editorial Board**

Ramazan Akdemir, Sakarya, Turkey

Levent Akyürek, Göteborg, Sweden

Azin Alizadehasi, Tehran, Iran

Necmi Ata, Eskişehir, Turkey

Saide Aytekin, İstanbul, Turkey

Vedat Aytekin, İstanbul, Turkey

Ljuba Bacharova, Bratislava, Slovak Republic

Luigi P. Badano, Udine, Italy

Anzel Bahadır, Düzce, Turkey

Adrian Baranchuk, Kingston, Ontario, Canada

Murat Biteker, Muğla, Turkey

Eugene Braunwald, Boston, MA, USA

Cahid Civelek, St. Louis, MO, USA

Ali Emin Denktaş, Houston, TX, USA

Polychronis Dilaveris, Athens, Greece

Firat Duru, Zurich, Switzerland

Ertuğrul Ercan, İzmir, Turkey

Okan Erdoğan, İstanbul, Turkey

Özcan Erel, Ankara, Turkey

Ali Gholamrezanezhad, Tahrán, Iran

Michael Gibson, Boston, MA, USA

Orhan Gökalep, İzmir, Turkey

Bülent Görenek, Eskişehir, Turkey

Okan Gülel, Samsun, Turkey

Sema Güneri, İzmir, Turkey

Yekta Gürlertop, Edirne, Turkey

Murat Güvener, Ankara, Turkey

Cemil İzgi, London, UK

Diwakar Jain, Philadelphia, USA

Erdem Kaşıkçıoğlu, İstanbul, Turkey

Cihançir Kaymaz, İstanbul, Turkey

Mustafa Kılıç, Denizli, Turkey

Mustafa Kılıçkap, Ankara, Turkey

Serdar Küçüköğlü, İstanbul, Turkey

Thomas F. Lüscher, Zurich, Switzerland/London, UK

Peter Macfarlane, Renfrewshire, Scotland/Robert W.

Mahley, San Francisco, CA, USA

Giuseppe Mancina, Milan, Italy

G.B. John Mancini, Vancouver BC, Canada

Anthony De Maria, San Diego, CA, USA

Pascal Meier, London, UK

Franz H. Messerli, New York, USA

Sanem Nalbantgil, İzmir, Turkey

Navin C. Nanda, Birmingham, AL, USA

Yılmaz Nişancı, İstanbul, Turkey

Hakan Oral, Ann Arbor, MI, USA

Necla Özer, Ankara, Turkey

Zeki Öngen, İstanbul, Turkey

Mehmet Özkan, İstanbul, Turkey

Sotirios N. Prapas, Athens, Greece

Fausto J. Pinto, Lisbon, Portugal

Vedat Sansoy, İstanbul, Turkey

Raşit Sayın, Trabzon, Turkey

Mark V. Sherrid, New York, USA

Horst Sievert, Frankfurt, Germany

İlke Sipahi, İstanbul, Turkey

Richard Sutton, Monaco, Monaco

Ahmet Şaşmazel, İstanbul, Turkey

S. Lale Tokgözoğlu, Ankara, Turkey

Murat Tuzcu, Cleveland, OH, USA

Dilek Ural, İstanbul, Turkey

Ahmet Ünalır, Eskişehir, Turkey

Selma Arzu Vardar, Edirne, Turkey

Mehmet Yokuşoğlu, Ankara, Turkey

Jose L. Zamorano, Madrid, Spain

Wojciech Zareba, New York, USA

Yuqing Zhang, Beijing, China



The Owner on behalf of the Turkish Society of Cardiology / Türk Kardiyoloji Derneği adına İmtiyaz Sahibi: Mustafa Kemal EROL  
 Address: Nish İstanbul A Blok Kat: 8, No: 47-48 Çobançeşme Sanayi Cad. No: 11 Yenibosna, Bahçelievler 34196 İstanbul, Türkiye  
 Phone: +90 212 221 1730-38 Fax: +90 212 221 1754 E-mail: tkd@tkd.org.tr Web: www.tkd.org.tr  
 Editor-in-Chief Office: Phone: +90 (535) 461 41 62 Fax: +90 (212) 221 17 54 E-mail: info@anatoljcardiol.com



Publisher  
İbrahim KARA

Publications Director  
Ali ŞAHİN

Editorial Development  
Gizem KAYAN TEKAÜT

Deputy Publications Director  
Gökhan ÇİMEN

Publication Coordinators  
İrem SOYSAL  
Arzu YILDIRIM  
Deniz KAYA  
Bahar ALBAYRAK  
Emre KARA  
Gamze BİLGİN  
İrmak BERBEROĞLU  
Ebru BOZ

Finance and Administration  
Zeynep YAKIŞIRER ÜREN

Project Coordinators  
Sinem Fehime KOZ  
Doğan ORUÇ

Graphics Department  
Ünal ÖZER  
Deniz Elif DURAN

Contact  
Address: Büyükdere Cad. No: 105/9  
34394 Şişli-İstanbul, Turkey  
Phone: +90 212 217 17 00  
E-mail: info@avesyayincilik.com

## AIMS AND SCOPE

The *Anatolian Journal of Cardiology* is an international monthly periodical on cardiology published on independent, unbiased, double-blinded and peer-review principles. The journal's publication language is English however titles of articles, abstracts and Keywords are also published in Turkish on the journal's web site.

The *Anatolian Journal of Cardiology* aims to publish qualified and original clinical, experimental and basic research on cardiology at the international level. The journal's scope also covers editorial comments, reviews of innovations in medical education and practice, case reports, original images, scientific letters, educational articles, letters to the editor, articles on publication ethics, diagnostic puzzles, and issues in social cardiology.

The target readership includes academic members, specialists, residents, and general practitioners working in the fields of adult cardiology, pediatric cardiology, cardiovascular surgery and internal medicine.

The editorial and publication processes of the journal are conducted in accordance with the guidelines of the International Committee of Medical Journal Editors (ICMJE), the World Association of Medical Editors (WAME), the Council of Science Editors (CSE), the European Association of Science Editors (EASE), the Committee on Publication Ethics (COPE) and the HEART Group.

The *Anatolian Journal of Cardiology* is indexed in Science Citation Index Expanded, PubMed/MEDLINE, EMBASE, Scopus, EMCare, CINAHL, Gale/Cengage Learning, EBSCO, DOAJ, ProQuest, Index Copernicus and TÜBİTAK ULAKBİM TR Index.

The requirements for submission of manuscripts and detailed information about the evaluation process are available in the published journal and also as 'Instructions for Authors' on the web site (<http://www.anatoljcardiol.com>).

Statements and opinions expressed in the *Anatolian Journal of Cardiology* reflect the views of the author(s). All liability for the advertisements rests with the appropriate organization(s). The Turkish Society of Cardiology, the editor-in-chief and AVES do not accept any responsibility for these articles and advertisements.

### Subscriptions

The *Anatolian Journal of Cardiology* is printed on acid-free paper. Applications for subscriptions should be made to the Editorial Office. The abstracts and full texts of published articles can be accessed free of charge at <http://www.anatoljcardiol.com>.

### Financial support and advertising

The revenue of the *Anatolian Journal of Cardiology* is derived from subscription charges and advertisements. Institutions wishing to place an advertisement in the printed version of the journal or on the web page should contact AVES.

**Owner** : Turkish Society of Cardiology  
**Address** : Çobançeşme Sanayi Cad., No: 11, Nish İstanbul, A Blok, No: 47-48,  
 34196, Yenibosna, Bahçelievler, İstanbul, TURKEY  
**Phone** : +90 212 221 17 30 / +90 0212 221 17 38  
**Fax** : +90 212 221 17 54  
**E-mail** : [tkd@tkd.org.tr](mailto:tkd@tkd.org.tr)

### Editor-in-Chief: Prof. Dr. Çetin Erol

**Address** : Çobançeşme Sanayi Cad., No: 11, Nish İstanbul, A Blok, No: 47-48,  
 34196, Yenibosna, Bahçelievler, İstanbul, TURKEY  
**Phone** : +90 (535) 461 41 62  
**Fax** : +90 (212) 221 17 54  
**E-mail** : [info@anatoljcardiol.com](mailto:info@anatoljcardiol.com)

### Publisher : AVES

**Address** : Büyükdere Cad., 105/9 34394 Şişli, İstanbul, Turkey  
**Phone** : +90 212 217 17 00  
**E-mail** : [info@avesyayincilik.com](mailto:info@avesyayincilik.com)  
**Web page** : [avesyayincilik.com](http://avesyayincilik.com)

## INSTRUCTIONS FOR AUTHORS

The *Anatolian Journal of Cardiology* is published in accordance with the principles of independent, unbiased, and double-blinded peer review. It publishes original research related to clinical, experimental and basic sciences on cardiology, editorial comments, reviews covering current issues, educational articles, scientific letters, case reports, letters to the editor, original images, articles on history of medicine and publication ethics, diagnostic puzzles, and interviews deemed appropriate for the purposes and scope of the journal.

The journal evaluates only the manuscripts submitted through its online submission system on the web site <http://www.anatoljcardiol.com>. Manuscripts sent by other means will not be accepted.

The primary conditions for the acceptance of manuscripts for publication are originality, scientific value and citation potential.

### STATEMENTS AND GUIDELINES

#### Statements

- All statements and opinions expressed in the manuscripts published in the *Anatolian Journal of Cardiology* reflect the views of the author(s). All liability for the advertisements rests with the appropriate organization(s). The Turkish Society of Cardiology, the Editor-in-Chief and AVES do not accept any responsibility for articles and advertisements.
- The manuscripts submitted to the journal, except abstracts, presentations, reviews and parts of theses, should not have been accepted and published previously elsewhere in electronic or printed format. Manuscripts evaluated and rejected by other journals must mention any previous submissions and supply reviewer's reports. This will help to accelerate the evaluation process. If the submitted manuscript has been previously presented at a meeting, the name, date, city and country must be specified.
- The authors transfer all copyrights of the manuscript in the framework of national and international regulations to the Turkish Society of Cardiology as of evaluation process. A Copyright Transfer Form signed by corresponding author in order must be submitted to the journal with manuscript. After acceptance of manuscript, all of authors must fill and sign Copyright Transfer form. A separate form for each manuscript should be submitted. Manuscripts submitted without a Copyright Transfer Form will not be accepted. In the case of rejection, all copyrights transfer to the authors again. Authors must confirm that they will not submit the work to another journal, publish it in the original or another language and or allow a third party to use the manuscript without the written permission of the Turkish Society of Cardiology.
- All contents are the authors' responsibility. All financial liability and legal responsibility associated with the copyright of submitted tables, figures and other visual materials protected by national and international laws rest with the authors. The authors take responsibility for any legal proceedings issued against the journal.
- Rejected manuscripts will not be returned except for artwork.
- To clarify scientific contributions and responsibilities and any conflict of interest issues relevant to the manuscript, all parts of the 'Authors' Contribution' form must be completed by the corresponding author and the 'ICMJE Uniform Disclosure Form for Potential Conflicts of Interest' must be completed online by all authors. Both forms should be included in the manuscript at the time of original submission.

#### Guidelines

- The format of the manuscripts must be in accordance with the ICMJE Recommendations for the Conduct, Reporting, Editing and Publication of Scholarly Work in Medical Journals (updated in December 2014: <http://www.icmje.org/icmje-recommendations.pdf>).
- The presentation of the manuscripts must be in accordance with international guidelines. CONSORT should be used for randomized trials, STROBE for observational studies, STARD for diagnostic studies, PRISMA for systematic reviews and meta-analyses, ARRIVE for animal studies, and TREND for non-randomized behavior and public health studies.

#### Ethics

- All manuscripts will be vetted by the Editor-in-Chief's Office for possible plagiarism and duplication. Sanctions will be imposed in accordance with the guidelines of the Committee on Publication Ethics (COPE) and with the principles of the HEART Group when non-ethical issues arise. The authors must obtain the permission of the copyright holder for non-original tables, figures, graphs, images and other visuals.
- The authors should acknowledge and provide detailed information on any contributions in kind and financial support given by any foundations, institutions and firms.
- An ethics committee report prepared in conformity with the *WMA Declaration of Helsinki - Ethical Principles for Medical Research Involving Human Subjects and the Guide for the Care and Use of Laboratory Animals* is required to be submitted with experimental and clinical studies, drug trial studies and some case reports. Authors may be asked by the Editor-in-Chief's Office for an ethics committee report or similar in other circumstances also. Manuscripts reporting the results of experimental studies must explain in detail all procedures which volunteer subjects and patients have undergone and a statement indicating that consent for the study has been obtained from all subjects should be included in the text. Animal studies should clearly specify how pain or discomfort has been relieved.

### PREPARATION AND SUBMISSION OF MANUSCRIPTS

Manuscript files should be prepared with Microsoft Office Word. The online submission system will direct authors during all stages of submission and provide necessary support for accelerating the submission process. A list of the files that should be supplied through the online submission system is provided below.

- Title Page
- Main Text
- Tables, Graphs and Figures
- Copyright Transfer Form
- Author Contribution Form
- ICMJE Uniform Disclosure Form for Potential Conflicts of Interest

#### 1. Title Page

Information about the authors and their institutions should not be included in the main text, tables, figures and video documents. Since submitted manuscripts are evaluated by the reviewers through the online system, personal identification is excluded in the interests of unbiased interpretation. Thus, only information about the manuscript as specified below should be included on the title page. For each type of manuscript, it is mandatory to upload a title page as a separate Microsoft Word document through the online submission system. The title page should include the names of the authors with their latest academic degrees, and the name of the department and institution, city and country where the study was conducted. If the study was conducted in several institutions, the affiliation of each author must be specified with symbols. The correspondence address should contain the full name of the corresponding author, postal and e-mail addresses, phone and fax numbers. If the content of the manuscript has been presented before, the name, date and place of the meeting must be noted. Disclosure of conflict of interest, institutional and financial support, author contributions and acknowledgments should be included on the title page.

#### 2. Main Text

The manuscripts submitted to our journal are classified and evaluated according to the manuscript types stated below. During preliminary evaluation, the editors assess whether a manuscript's format and sub-headings are prepared in accordance with the journal's guidelines. Therefore, it is important that authors check the accuracy of the main text in terms of the following.

##### A. Manuscript types

- Original investigation
- Editorial comment
- Review
- Education
- Scientific letter
- Case report
- Original image
- Letter to the editor
- Publication ethics
- Scientific puzzle
- Miscellaneous articles

##### B. References

##### C. Special Terms and Conditions

#### A. Manuscript types

##### • Original Research

- Title
- Highlights: Each submission should be accompanied by 3 to 5 "highlight points" which should emphasize the most striking results of the study and highlight the message that is intended to be conveyed to the readers. It should be limited to 70 words.
- Structured Abstract: It should be structured with Objective, Methods, Results and Conclusion subheadings and should be limited to 250 words.
- Keywords: This section should contain a minimum of three and a maximum of six items in accordance with Medical Subject Headings (MeSH) terms prepared by the National Library of Medicine (NLM) and should be placed just below the abstract.
- Main Text: It should consist of Introduction, Methods, Results, Discussion, Limitations of the Study and Conclusion sections and should not exceed 5000 words excluding the references.
- References: The reference list should be provided following the Main Text. Limiting the number of references to 50 is usually sufficient.
- Tables, Figures and Images: They should be placed below the reference list and numbered according to their consecutive order in the main text.
- Title, Structured Abstract and Keywords should also be provided in Turkish for manuscripts submitted by Turkish authors or from Turkey. However, translations of these sections for manuscripts submitted by foreign authors outside Turkey will be the responsibility of the publisher.

**Statistical Analysis:** Statistical analysis should be conducted in accordance with the guidelines on reporting statistical data in medical journals [Altman DG, Gore SM, Gardner MJ, Pocock SJ. Statistical guidelines for contributors to medical journals. *Br Med J* 1983; 7; 1489-93 and Lang T, Altman D. Basic statistical reporting for articles published in clinical medical journals: the **SAMPL Guidelines**. In: Smart P, Maisonneuve H, Polderman A (editors). *Science Editors' Handbook*, European Association of Science Editors, 2013]. The software used for statistical analysis must be described. Data must be expressed as mean  $\pm$  standard deviation when parametric tests are used to compare continuous variables. For nonparametric tests, data must be expressed as median (minimum-maximum) or percentiles (25<sup>th</sup> and 75<sup>th</sup> percentiles). In advanced and complex statistical analyses, relative risk (RR), odds ratio (OR) and hazard ratio (HR) must be supported by confidence intervals and p values. The outcomes of statistical analyses and interpretation of the results must be in evidence-based scientific language (Editors of Heart Group journals. Statement on matching language to the type of evidence used in describing outcomes data. *Anatolian Journal of Cardiology* 2012;12:709).

### • Editorial Comment

Authors are selected and invited by the Editor-in-Chief. This type of manuscript aims at providing a brief commentary on an article published in the journal by a researcher who is an authority in the relevant field or by the reviewer of the article.

- Title
- Main Text: It should not include subheadings and should be limited to 500 words.
- References: The reference list should follow the main text and the number of references should be limited by 15.
- Abstract, Keywords, Tables, Figures, Images and other visuals are not included in editorial comments.
- The title should also be provided in Turkish for works submitted by Turkish authors or from Turkey. The title of the manuscripts submitted by foreign authors outside Turkey will be translated into Turkish by the Editor-in-Chief's Office.

### • Review

Reviews prepared by authors with extensive knowledge on a particular field, which has been reflected in international literature by a high number of publications and citations, are evaluated. The authors may be invited by the Editor-in-Chief. A review should be prepared in the format describing, discussing and evaluating the current level of knowledge or topic that is to be used in the clinical practice and it should guide further studies.

- Title
- Highlights: Each submission should be accompanied by 3 to 5 "highlight points" which should emphasize the most striking results of the study and highlight the message that is intended to be conveyed to the readers. It should be limited to 70 words.
- Abstract: It should not include subheadings and should be limited to 250 words.
- Keywords: This section should contain a minimum of three and a maximum of six items in accordance with Medical Subject Headings (MeSH) terms prepared by the National Library of Medicine (NLM) and should be provided just below the abstract.
- Main Text: It should include Introduction, other subheadings and Conclusion sections and should be limited to 5000 words excluding the references.
- References: The reference list should be placed just below the main text and the number of references should not exceed 50.
- Tables, Figures and Images: They should be provided after the reference list according to their order of appearance in the text.
- For reviews submitted by Turkish authors or from Turkey, Title, Abstract and Keywords should also be provided in Turkish. For reviews submitted by foreign authors outside Turkey, translations of these sections will be the responsibility of the publisher.

**NOTE:** The originality of the visuals included in the reviews should be assured by submission of an accompanying letter by the authors. Appropriate citation should be done for the visuals adapted from previously published sources, in accordance with the original versions of the printed or electronic copies. The written permission obtained from the copyright holder (publisher, journal or authors) should be sent to the Editor-in-Chief's Office.

### • Education

Knowledge confirmed by the results of recent research studies, involved in education at academic level and used in clinical practices should be presented in detail in this type of manuscript.

- Title
- Abstract: It should not include subheadings and it should be limited to 250 words.
- Keywords: This section should contain a minimum of three and a maximum of six items in accordance with Medical Subject Headings (MeSH) terms prepared by the National Library of Medicine (NLM) and should be provided just below the abstract.
- Main Text: It should include Introduction, other subheadings and Conclusion sections and should not exceed 5000 words excluding the references.
- References: The reference list should be provided just below the main text and the number of references should be limited to 50.
- Tables, Figures and Images: They should be provided after the reference list according to their order of appearance in the main text.
- For educational articles submitted by Turkish authors or from Turkey, Title, Abstract and Keywords should also be provided in Turkish. For articles submitted by foreign authors outside Turkey, the translation of these sections will be carried out by the Editor-in-Chief's Office.

### • Scientific Letter

Manuscripts which announce a new scientific invention, are clinically significant, and are in the form of a preliminary report are accepted for publication as scientific letters.

- Title
- Main Text: It should include Introduction, other subheadings and Conclusion sections and should not exceed 900 words excluding the references.
- References: The reference list should be provided just below the main text and the number of references should be limited to 10.
- Tables, Figures and Images: They should be provided below the reference list according to their order of appearance in the text and should be limited to two.
- Abstract and Keywords should not be included.
- For scientific letters submitted by Turkish authors or from Turkey, the Title should also be provided in Turkish. For letters submitted by foreign authors outside Turkey, the translation of these sections will be carried out by Editor-in-Chief's Office.

### • Case Report

Since a limited number of case reports is published, only reports which are related to rare cases and conditions that constitute challenges in diagnosis and treatment, offer new methods or suggest knowledge not included in books, and are interesting and educational are accepted for publication.

- Title
- Main Text: It should include Introduction, Case Report, Discussion and Conclusion sections and should not exceed 700 words excluding the references.
- References: The reference list should follow the main text and the number of references should be limited to 10.

- Tables, Figures and Images: They should be provided after the reference list according to their order of appearance in the text and should be limited to two.
- Abstract and Keywords are not included.
- For case reports submitted by Turkish authors or from Turkey, the Title should also be provided in Turkish. For case reports submitted by foreign authors outside Turkey, the translation of these sections will be carried out by the Editor-in-Chief's Office.

**NOTE 1:** Case reports that include video images have a better chance of publication.

### • Original Image

Impressive and rare images that reflect significant findings based on clinical science, shed light on fundamental mechanisms of diseases, emphasize abnormalities or introduce new treatment methods are accepted for publication.

- Title
- Main Text: It should not include subheadings and it should be limited to 250 words.
- Tables, Figures and Images: They should be provided after the main text according to their order of appearance in the text and should be limited to two.
- Abstract, Keywords and References are not included.
- For original images submitted by Turkish authors or from Turkey, the Title should also be written in Turkish. For images submitted by foreign authors outside Turkey, the translation of this section into Turkish will be carried out by the publisher.

**NOTE 1:** Those manuscripts with video images have a better chance of publication.

**NOTE 2:** Manuscripts prepared in accordance with original image criteria are published only as an e-page at the journal's website <http://www.anatoljcardiol.com>.

### • Letter to the Editor

Letters to the Editor aim to discuss the importance of a manuscript previously published in the journal. This type of manuscripts should also include a comment on the published manuscript. Moreover, articles on topics of interest to readers within the scope of the journal, especially on educational issues, can be published in the format of a Letter to the Editor.

- Title
- Main Text: It should not include subheadings and it should be limited to 500 words.
- References: The reference list should follow the main text and the number of references should be limited to five. The volume, year, issue, page numbers, authors' names and title of the manuscript should be clearly stated, included in the list of references and cited within the text.
- Abstract, Keywords, Tables, Figures and Images, and other visuals are not included.
- For manuscripts submitted by Turkish authors or from Turkey, the Title should also be written in Turkish. For manuscripts submitted by foreign authors outside Turkey, the translation of this section into Turkish will be carried out by the publisher.

### • Publication Ethics

These articles include current information on research and publication ethics and also cases of ethical violation.

- Title
- Main Text: It should not exceed 900 words.
- References: The reference list should follow the main text and the number of references should be limited to 10.
- Tables, Figures and Images: They should be placed after the reference list according to their order of appearance in the text and limited to two.
- Abstract and Keywords are not included.
- For articles submitted by Turkish authors or from Turkey, the Title should also be written in Turkish. For articles submitted by foreign authors outside Turkey, the translation of this section into Turkish will be carried out by the publisher.

### • Scientific Puzzle

Images obtained directly or on operation, visuals revealed through EKG and/or imaging methods, and macroscopic-microscopic anatomical, pathological findings of attention-grabbing and rare cases can be published. Unlike original images, the diagnosis and outcome of the case and image are hidden at the beginning in diagnostic puzzles. Four multiple-choice questions are prepared. In the following pages of the journal, the correct answer in terms of precise diagnosis and outcome is given with an explanation and didactic images and then discussed. The Editor-in-Chief will convert suitable images into the format of a diagnostic puzzle with the authors' permission.

- Title
- Main Text: It should not exceed 500 words.
- References: The reference list should follow the main text and be limited to a maximum of three.
- Tables, Figures and Images: They should be placed after the reference list according to their order of appearance in the text and should be limited to five.
- Abstract and Keywords should not be included

- For diagnostic puzzles submitted by Turkish authors or from Turkey, the Title should also be provided in Turkish. For diagnostic puzzles submitted by foreign authors outside Turkey, the translation of this section into Turkish will be carried out by the publisher.

#### Miscellaneous

- This type of manuscript covers important events and obituaries.
- Title
- Main Text: It should not exceed 1000 words.
- References: The reference list should follow the main text and the number of references should be limited to 10.
- Tables, Figures and Images: They should be placed after the reference list according to their order of appearance in the text and should be limited to five.
- Abstract and Keywords should not be included.
- For manuscripts submitted by Turkish authors or from Turkey, the Title should also be provided in Turkish. For manuscripts submitted by foreign authors outside Turkey, the translation of this section into Turkish will be carried out by the publisher.

#### B. References

- References should be numbered in the order in which they are cited within the main text.
  - Only manuscripts published or accepted for publication should be cited.
  - Recent publications related to the topic of the manuscript should be reviewed.
  - References that are inaccessible and not indexed in any database should not be cited.
  - The titles of journals should be abbreviated in accordance with (Patrias K. Citing medicine: the NLM style guide for authors, editors, and publishers [Internet]. 2<sup>nd</sup> ed. Wendling DL, technical editor. Bethesda (MD): National Library of Medicine (US); 2007 - [updated 2011 Sep 15; cited Year Month Day].
  - For references with six and fewer authors, all authors should be listed. For references with more than six authors, the first six authors should be listed, followed by 'et al'.
- The style and punctuation of the references should be formatted as in the following examples.

**Journal:** Muller C, Buttner HJ, Peterson J, Roskomun H. A randomized comparison of clopidogrel and aspirin versus ticlopidine and aspirin after placement of coronary artery stents. *Circulation* 2000; 101: 590-3.

**Book Chapter:** Sherry S. Detection of thrombi. In: Strauss HE, Pitt B, James AE, editors. *Cardiovascular Medicine*. St Louis: Mosby; 1974. p.273-85.

**Book with Single Author:** Cohn PF. Silent myocardial ischemia and infarction. 3<sup>rd</sup> ed. New York: Marcel Dekker; 1993.

**Editor(s) as author:** Norman IJ, Redfern SJ, editors. *Mental health care for elderly people*. New York: Churchill Livingstone; 1996.

**Conference Paper:** Bengissson S, Sothemin BG. Enforcement of data protection, privacy and security in medical informatics. In: Lun KC, Degoulet P, Piemme TE, Rienhoff O, editors. *MEDINFO 92*. Proceedings of the 7<sup>th</sup> World Congress on Medical Informatics; 1992 Sept 6-10; Geneva, Switzerland. Amsterdam: North-Holland; 1992. p.1561-5.

**Scientific or Technical Report:** Smith P, Golladay K. Payment for durable medical equipment billed during skilled nursing facility stays. Final report. Dallas (TX) Dept. of Health and Human Services (US). Office of Evaluation and Inspections: 1994 Oct. Report No: HHSIGOE 169200860.

**Thesis:** Kaplan SI. Post-hospital home health care: elderly access and utilization (dissertation). St Louis (MO): Washington Univ. 1995.

**Manuscripts accepted for publication but not published yet:** Leshner AI. Molecular mechanisms of cocaine addiction. *N Engl J Med* In press 1997.

**Epub ahead of print articles:** Aksu HU, Ertürk M, Gül M, Uslu N. Successful treatment of a patient with pulmonary embolism and biatrial thrombus. *Anatol J Cardiol* 2012 Dec 26. doi:10.5152/akd.2013.062. [Epub ahead of print]

**Manuscript published in electronic format:** Morse SS. Factors in the emergence of infectious diseases. *Emerg Infect Dis* (serial online) 1995 Jan-Mar (cited 1996 June 5): 1(1): (24 screens). Available from: URL: <http://www.cdc.gov/ncidod/EID/cid.htm>.

#### C. Special Terms and Conditions

- For double-blinded peer-review process, the names of the corresponding author and other authors, their affiliations and any information on the study centres should not be included in any part of the submitted manuscripts and images, except the Title Page. This information should be added to the relevant section of the online submission system and included in the Title Page.
- Pharmaceutical products should be written with their generic names and brand and company names, city and country should be specified for medical equipment and devices.

#### 3. Tables, Graphs and Figures

- Tables, Graphs, Figures and other visuals should be numbered in the order of their citation within the text and names of patients, doctors and institutions should not be disclosed.
- Tables should be prepared in a Microsoft Office Word document using the command 'Insert Table' and inserted at the end of the references in the main text.
- Tables should not be submitted in JPEG, TIFF or other visual formats. For microscopic images, the magnification ratio and staining technique used should be specified in addition to figure legends.

- All visuals should have a high resolution (minimum 300 dpi).
- The thickness of the lines in graphs should be sufficient to minimize loss of quality if size reduction is needed during the printing process. The width of the graphs should be 9 cm or 18 cm. Drawings should be performed by professionals. No grey colours should be used.
- Abbreviations should be explained in alphabetical order at the bottom of the tables, graphs and figures
- Roman numbers should be avoided in tables and figures within the text and their titles.
- Decimal numbers used in text, tables and figures should be separated by commas in Turkish sections and by dots in English sections.
- Tables should be easily understandable and should not repeat the data in the main text.
- In addition to the pictures included in case reports and original images, video and movie images are published on the journal's website. These images should be prepared in MPEG format with a maximum size of 2 MB. They should be submitted to the journal with the manuscript documents. The names of patients, doctors, institutions and places should be omitted from all documents.

**NOTE:** All visuals in the manuscripts are printed in black and white without charge. However, 300 TL per article must be paid if colour is required. The Editor-in-Chief's Office of the Anatolian Journal of Cardiology should be contacted for payment.

#### EVALUATION AND PUBLICATION

- The main text submitted to the journal must be in English. Manuscripts written in other languages are not accepted. Citation potential is higher for manuscripts in English.
- The Editor-in-Chief's Office checks the conformity of the manuscript with the journal's general guidelines before sending it to associate editors and reviewers. Any manuscripts not prepared in accordance with the journal's guidelines will be returned for revision. The evaluation period is limited to 21 days. If revision is requested, authors should submit their revised manuscripts within 24 days. Manuscripts and revisions should be submitted through the online manuscript submission system at the website <http://www.anatoljcardiol.com>. Manuscripts sent by e-mail will not be accepted.
- Manuscripts are evaluated in accordance with the principles of double-blinded peer review. Of the submitted manuscripts, those considered to be suitable are subjected to preliminary evaluation by the Editor-in-Chief's assistants in terms of style, format, etc. and by the Editor-in-Chief in terms of their content. Manuscripts considered to be scientifically adequate are assigned to four reviewers. These reviewers are independent experts and members of the editorial board who have published internationally on the topic of the manuscript. Research articles, systematic reviews and meta-analyses are also evaluated by the Editor-in-Chief's statistician counsellors in addition to peer review. When needed, the manuscripts are scanned by the Editor-in-Chief's Office using the iThenticate program for determination of plagiarism and non-ethical situations. Also, all manuscripts are reviewed and edited for compliance with the rules of English grammar. All contributing authors of a manuscript accepted for publication are deemed to have accepted the right of editors to make corrections provided that no fundamental change is made to the basic meaning of the original text. Manuscripts not accorded priority for publication by the Editor-in-Chief, Editor, Associate Editors and Referees are rejected.
- The retraction requests of the manuscripts close to the final decision in evaluation process, without any reasonable explanation (not contrary to the Publication Ethics) is considered in the scope of rejection decision. Manuscripts that are not revised and resubmitted within the specified time and fail to notify the journal accordingly will be rejected.
- Once a manuscript is accepted for publication, addition to the author list, removal from the author list and order change cannot be effected.
- Manuscripts accepted for publication are prepared as 'Epub ahead of print articles' and published with an assigned DOI on the journal website <http://www.anatoljcardiol.com>.
- Information on the latest status of manuscripts submitted for evaluation and other information about the journal are available on the website <http://www.anatoljcardiol.com>. Contact details for the Editor-in-Chief's Office and the publisher are given below.

**Owner :** Turkish Society of Cardiology  
**Address :** Çobançeşme Sanayi Cad., No: 11, Nish İstanbul, A Blok, No: 47-48, 34196, Yenibosna, Bahçelievler, İstanbul, TURKEY  
**Phone :** +90 212 221 17 30 / +90 0212 221 17 38  
**Fax :** +90 212 221 17 54  
**E-mail :** [tkd@tkd.org.tr](mailto:tkd@tkd.org.tr)

**Editor-in-Chief: Prof. Dr. Çetin Erol**  
**Address :** Çobançeşme Sanayi Cad., No: 11, Nish İstanbul, A Blok, No: 47-48, 34196, Yenibosna, Bahçelievler, İstanbul, TURKEY  
**Phone :** +90 (535) 461 41 62  
**Fax :** +90 (212) 221 17 54  
**E-mail :** [info@anatoljcardiol.com](mailto:info@anatoljcardiol.com)

**Publisher : AVES**  
**Address :** Büyükdere Cad., 105/9 34394 Şişli, İstanbul, Turkey  
**Phone :** +90 212 217 17 00  
**E-mail :** [info@avesyayincilik.com](mailto:info@avesyayincilik.com)  
**Web page :** [avesyayincilik.com](http://avesyayincilik.com)

**CONTENTS****EDITORIAL**

- ▶ Carotid artery stenting, new devices and techniques for interventional cardiology and atrial fibrillation 375  
Çetin Erol; Ankara-*Turkey*

**SCIENTIFIC LETTER**

- ▶ Diabetes and mortality in patients with COVID-19: Are we missing the link? 376  
Alessandro Sticchi, Alberto Cereda, Marco Toselli, Antonio Esposito, Anna Palmisano, Davide Vignale, Valeria Nicoletti, Riccardo Leone, Chiara Gnasso, Alberto Monello, Arif A. Khokhar, Alessandra Laricchia, Andrea Biagi, Piergiorgio Turchio, Marcello Pettrini, Guglielmo Gallone, Francesco De Cobelli, Francesco Ponticelli, Gianni Casella, Gianmarco Iannopolo, Tommaso Nannini, Carlo Tacchetti, Antonio Colombo, Francesco Giannini; Rome, Cotignola, Milan, Piacenza, Turin, Bologna-*Italy*

**EDUCATION**

- ▶ Incomplete right bundle branch block: Challenges in electrocardiogram diagnosis 380  
Mariana Floria, Alexandra Noela Parteni, Ioana Alexandra Neagu, Radu Andy Sascau, Cristian Stasescu, Daniela Maria Tanase; Iasi-*Romania*


**ORIGINAL INVESTIGATIONS**

- ▶ Six-year outcomes of carotid artery stenting performed with multidisciplinary management in a single center 385  
Erkan Köklü, Şakir Arslan, Elif Sarıönder Gencer, Nermin Bayar, Rauf Avcı, Edip Can Özgünoğlu; Antalya-*Turkey*
- ▶ Percutaneous coronary intervention of severely/moderately calcified coronary lesions using single-burr rotational atherectomy: A retrospective study 395  
Shuvanan Ray, Siddhartha Bandyopadhyay, Prithwiraj Bhattacharjee, Priyam Mukherjee, Suman Karmakar, Sabyasachi Mitra, Anirban Dalui, Ashok Dhar; Kolkata-*India*
- ▶ A comparative study of Terumo radial Band® and PreludeSYNC hemostasis compression device after transradial coronary catheterization 402  
Jahanzeb Malik, Nismat Javed, Hesham Naeem; Rawalpindi, Islamabad-*Pakistan*
- ▶ Blood pressure, autonomic stress, and inflammatory markers during sleep deprivation and recovery in healthy men 407  
Özge Bozer, Oktay Kaya, Gülnur Öztürk, Erdoğan Bulut, Cafer Zorkun, Levent Öztürk; Edirne, Istanbul-*Turkey*
- ▶ Integrative analysis reveals essential mRNA, long non-coding RNA (lncRNA), and circular RNA (circRNA) in paroxysmal and persistent atrial fibrillation patients 414  
Haoliang Sun, Junjie Zhang, Yongfeng Shao; Jiangsu-*China*
- ▶ Identifying the key microRNAs implicated in atrial fibrillation 429  
Yuejuan Cao, Li Cui; Tianjin-*China*
- ▶ How does severe functional mitral regurgitation redefined by European guidelines affect pulmonary vascular resistance and hemodynamics in heart transplant candidates? 437  
Zübeyde Bayram, Cem Doğan, Rezzan Deniz Acar, Süleyman Efe, Özgür Yaşar Akbal, Fatih Yılmaz, Büşra Güvendi Şengör, Ahmet Karaduman, Samet Uysal, Ali Karagöz, Çağatay Önal, Mehmet Kaan Kırallı, Cihangir Kaymaz, Nihal Özdemir; Istanbul-*Turkey*

**CASE REPORTS**

- ▶ Association of interrupted aortic arch, aortopulmonary window with anomalous origin of the right pulmonary artery from the aorta, one-stage repair and postoperative outcomes: A case report 447  
Yasemin Nuran Dönmez, Hayrettin Hakan Aykan, Recep Oktay Peker, Tevfik Karagöz, Rıza Doğan; Ankara-*Turkey*
- ▶ Kounis syndrome: Is ceftriaxone or metronidazole responsible for acute myocardial infarction? A rare case 451  
Abdulkadir Çakmak, Gökhan Keskin; Amasya-*Turkey*
- ▶ Successful atrioventricular nodal reentrant tachycardia ablation in a female patient with left isomerism 453  
Gökay Nar, Alperen Emre Akgün; Denizli-*Turkey*



## CONTENTS

- ▶ Transcaval transcatheter aortic valve replacement through abdominal aortic aneurysm in a patient with no option for other vascular access  456  
Ertan Vuruşkan, Mehmet Kaplan, Gökhan Altunbaş, İrfan Veysel Düzen, Fatma Yılmaz Coşkun, Mehmet Murat Sucu; Gaziantep-Turkey

### LETTERS TO THE EDITOR

- ▶ Carefulness is important when analyzing epidemiological data 458  
Fatih Yılmaz; İstanbul-Turkey
- ▶ Unsolved issues of the efficacy and safety of edoxaban 460  
Leszek Drabik, Anetta Undas; Krakow-Poland

### E-PAGE ORIGINAL IMAGES

- ▶ An unusual complication due to a standard coronary angioplasty procedure: Intramyocardial dissecting hematoma  E-22  
Ertan Vuruşkan, Enes Alıç, İrfan Düzen, Mehmet Kaplan, Gökhan Altunbaş, Murat Sucu; Gaziantep-Turkey
- ▶ Water-bottle heart E-24  
Yalçın Velibey, Feyza Mollaalioğlu, Semih Eren, Kemal Emrehan Parsova; İstanbul-Turkey
- ▶ The two sides of the spectrum: Paravalvular mitral regurgitation  E-26  
Uğur Nadir Karakulak, Necla Özer; Ankara-Turkey