Original Investigations

Hypotensive effect of alpha-lipoic acid after a single administration in rats
Magdalena Dudek, et al; Kraków-Poland

Therapeutic effects of pentoxifylline on diabetic heart tissue via NOS
Derya Karabulut, et al; Kayseri-Turkey

Left atrial volume and function in systemic sclerosis by speckle tracking and 3-D echo
Halil Ataş, et al; İstanbul-Turkey

Heart rate variability and heart rate turbulence in patients with polycystic ovary syndrome
Gülay Özkeçeci, et al; İzmir-Turkey

Effects of balanced propofol sedation on QT and P-wave dispersion on upper endoscopy
Eşref Bolat, et al; Kayseri-Turkey

GuideLiner catheter application in complex coronary lesions: experience of two centers
Hüseyin Dursun, et al; İzmir-Turkey

Editorial Comment: “Citius, Altius, Fortius”: the impact of guide catheter extensions
Georgios E. Christakopoulos, et al; Dallas-Texas-USA

Editorial Comment: Catheter extension devices and complex coronary interventions
Sergio García-Blas, et al; Valencia-Spain

Galectin-3 in hypertrophic cardiomyopathy and, left ventricular mass index and function
Selcen Yakar Tülüce, et al; İzmir-Turkey

Platelet to lymphocyte ratio and saphenous vein graft disease in stable angina pectoris
Harun Kundi, et al; Ankara-Turkey

Reference values for tricuspid annular plane systolic excursion in healthy Turkish children
Fahrettin Uysal, et al; Bursa-Turkey
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 KARE PUBLISHING 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 KARE PUBLISHING.

Owner : Turkish Society of Cardiology
Address : Çobançeşme Sanayi Cad., No: 11, Nish İstanbul, A Blok, No: 47-48, 34196, Yeşiloba, Bağcılar, 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

Editor-in-Chief: Prof. Bilgin Timuralp
Address : EŞOGÜ Tip Fakültesi, Merkezi Derslikler, Kat: 3, No: 1, 26480, Meşelik, Eskişehir, TURKEY
Phone : +90 222 229 15 65 / +90 538 480 43 30
Fax : +90 222 229 15 85
E-mail : info@anatoljcardiol.com

Publisher : KARE PUBLISHING
Address : Altayçeşme Mah., Samanyolu Sok., Meçit Varlı Apt., No: 19/6, 34843 Maltepe, Istanbul, TURKEY
Phone : +90 216 550 61 11
Fax : +90 216 550 61 12
E-mail : kareyayincilik@gmail.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 different issues, online 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 KARE 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. 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 IVMR 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.

1. Title Page
2. Main Text
3. Tables, Graphs and Figures
4. Copyright Transfer Form
5. Author Contribution Form
6. 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 conforms to the journal’s guidelines for Potential Conflicts of Interest and 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

B. References

C. Special Terms and Conditions

A. Manuscript types

• Original Research

Title
• 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; 1: 163; 174]. General 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 ± standard deviation when parametric tests are used to compare continuous variables. For nonparametric tests, data must be expressed as median (minimum-maximum) or percentiles (25th and 75th 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(7)).
• 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 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
  • 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 be limited to 9000 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 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 solutions 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.

• 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.

NOTE 3: For original image manuscripts to be taken under review, the first author must subscribe to the Anatolian Journal of Cardiology for one year. This requirement is only for the initiation of the preliminary assessment process. It does not guarantee acceptance for publication or evaluation. The manuscript of the subscriber will be evaluated strictly in accordance with the journal’s criteria. Being a subscriber does not guarantee priority in terms of evaluation or guarantee publication. The VAT-inclusive subscription fee is 240 TL and the Turkish Society of Cardiology must be contacted for subscription procedures.

• 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.
EDITORIAL

- Chicago Spring and ACC.16
  Zeki Öngen; İstanbul-Turkey

ORIGINAL INVESTIGATIONS

- Hypotensive effect of alpha-lipoic acid after a single administration in rats
  Magdalena Dudek, Katarzyna Razny, Anna Biliska-Wilkosz, Malgorzata Iciek, Jacek Sapa, Lidia Wlodek, Barbara Filipek; Krakow-Poland

- Therapeutic effects of pentoxifylline on diabetic heart tissue via NOS
  Derya Karabulut, Hasan Basri Ulusoy, Emin Kaymak, Mehmet Fatih Sönmez; Kayseri-Turkey

- Evaluation of left atrial volume and function in systemic sclerosis patients using speckle tracking and real-time three-dimensional echocardiography
  Halil Ataş, Alper Kepez, Kürşat Tigen, Fuad Samadov, Gülsen Özen, Altuğ Cincin, Murat Sünbül, Mehmet Bozbay, Haner Direşkeneli, Yelda Başaran; İstanbul-Turkey, Baku-Azerbaijan

- Heart rate variability and heart rate turbulence in patients with polycystic ovary syndrome
  Gülay Özkeçeci, Bekir Serdar Ünlü, Hüseyin Dursun, Önder Akçi, Gülengül Köken, Ersel Onrat, Alaettin Avşar; Afyonkarahisar, İzmir-Turkey

- Effects of balanced propofol sedation on QT, corrected QT, and P-wave dispersion on upper endoscopy
  Eşref Bolat, Mehmet Çelikbilek, Savaş Sarıkaya, Yunus Keser Yılmaz, Serkan Doğan, Ömer Özbakır; Yozgat, Kayseri-Turkey

- GuideLiner catheter application in complex coronary lesions: experience of two centers
  Hüseyin Dursun, Ahmet Taştan, Zülfik Tanriverdi, Erdem Özel, Dayımı Kaya; İzmir, Şırnak-Turkey

  Editorial Comment: Citius, Altius, Fortius: The impact of guide catheter extensions in contemporary percutaneous coronary intervention
  Georgios E. Christakopoulos, Emmanouil Brilakis; Texas-USA

  Editorial Comment: Are catheter extension devices one step forward for complex coronary interventions?
  Sergio García-Blas, Julio Núñez; Valencia-Spain

- Galectin-3 levels in patients with hypertrophic cardiomyopathy and its relationship with left ventricular mass index and function
  Selcen Yakar Tülüce, Kamil Tülüce, Zafer Çil, Sadık Volkan Emren, Zehra Ilke Akylidiz, Oktay Ergene; İzmir-Turkey

- Association between platelet to lymphocyte ratio and saphenous vein graft disease in patients with stable angina pectoris
  Harun Kundi, Ahmet Balun, Hülya Çiçekcioğlu, Mustafa Çetin, Emrullah Kiziltunç, Zehra Güven Çetin, Feridun Vasfi Ulusoy, Ender Örnek; Ankara-Turkey

- Determination of reference values for tricuspid annular plane systolic excursion in healthy Turkish children
  Fahrettin Uysal, Özlem Mehtap Bostan, Ergun Çil; Bursa-Turkey
SCIENTIFIC LETTERS

- Wood units · m² or Wood units/m²: does it matter?  
  Serdar Kula, Tayfun Göktaş; Ankara-Turkey

- The role of protein Z and protein Z-dependent protease inhibitor polymorphisms in the development of prosthetic heart valve thrombosis  
  Süleyman Karakoyun, Mustafa Özan Gürsoy, Macit Kalçık, Mahmut Yesin, Sabahattin Gündüz, Mehmet Ali Astarcioglu, Zübeyde Bayram, Mehmet Özk kan; İzmir, Çorum, İstanbul, Kütahya, Ardahan-Turkey

LETTERS TO THE EDITOR

- Psychological effects of treatment with novel oral anticoagulants in non-valvular atrial fibrillation patients  
  Can Ramazan Öncel; Antalya-Turkey

- Do spontaneous coronary artery dissections always need intervention in patients with no atherosclerosis?  
  Cengiz Öztürk, Turgay Çelik, Şevket Bal ta, Atilla İyiso y; Ankara-Turkey

- Effects of cardiopulmonary bypass on new-onset atrial fibrillation  
  Orhan Gökalp, Börtecin Eygi, Yüksel Beşir, Ali Gürbüz; İzmir-Turkey

- Myocardial infarction in an 11-year-old child with systemic lupus erythematosus  
  Meki Bilici, Fikri Demir, Mehmet Türe, Alper Akın, Habip Çıl, Aydın Ece, Nihat Polat; Diyarbakır-Turkey

ORIGINAL IMAGES

- Partial detachment of tricuspid valve annuloplasty ring detected by three-dimensional transesophageal echocardiography  
  Begüm Uygur, Mehmet Ertürk, Hale Ünal Aksu, Aydın Yıldırım; İstanbul-Turkey

- Transcatheter closure of ruptured sinus of valsalva aneurysm using symmetrical perimembranous VSD device  
  Kemal Nişlı, Serra Karaca, Ümrah Aydoğan; İstanbul-Turkey