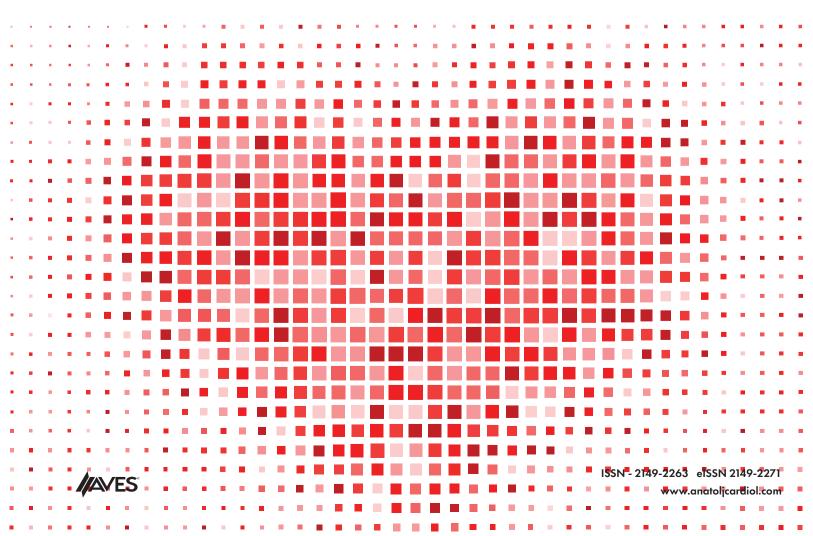


3 Th TURKISH CARDIOLOGY CONGRESS WITH INTERNATIONAL PARTICIPATION



Editor-in-Chief Prof. Dr. Çetin Erol, Ankara, Turkey

Associate Editors

Adnan Abacı, Ankara, Turkey Rüçhan Akar, Ankara, Turkey Nihal Akar Bayram, Ankara, Turkey Bülent Behlül Altunkeser, Konya, Turkey Serdal Arslan, Mersin, Turkey Oben Baysan, Ankara, Turkey Ahmet Kaya Bilge, İstanbul, Turkey Hakim Celik, Sanlıurfa, Turkey Recep Demirbaă, Sanlıurfa, Turkey Ş. Remzi Erdem, Ankara, Turkey

Senior Consultant in Biostatistics

Kazım Özdamar, Eskişehir, Turkey

Editorial Board

Ramazan Akdemir, Sakarya, Turkey Levent Akyürek, Göteborg, Sweden Azin Alizadehasl, 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 Fırat Duru, Zurich, Switzerland Ertuğrul Ercan, İzmir, Turkey Okan Erdoğan, İstanbul, Turkey Özcan Erel, Ankara, Turkey Ali Gholamrezanezhad, Tahran, İran Michael Gibson, Boston, MA, USA Orhan Gökalp, İzmir, Turkey

Editors

Cem Barçın, Ankara, Turkey Asife Şahinarslan, Ankara, Turkey

İlkay Erdoğan, Ankara, Turkey Faruk Ertaş, Diyarbakır, Turkey Sadi Güleç, Ankara, Turkey Ali Gürbüz, İzmir, Turkey Alper Kepez, İstanbul, Turkey Teoman Kılıç, Kocaeli, Turkey Ece Konac, Ankara, Turkey Serdar Kula, Ankara, Turkey Selma Metintaş, Eskişehir, Turkey Kurtulus Özdemir, Konva, Turkev Murat Özeren, Mersin, Turkey

Consultant in Biostatistics

Fezan Mutlu, Eskişehir, 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 Cihangir Kaymaz, İstanbul, Turkey Mustafa Kılıç, Denizli, Turkey Mustafa Kılıckap, Ankara, Turkey Serdar Küçükoğlu, İstanbul, Turkey Thomas F. Lüscher, Zurich, Switzerland/London, UK Peter Macfarlane, Renfrewshire, Scotland Robert W. Mahley, San Francisco, CA, USA Giuseppe Mancia, 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, Birminaham, AL, USA Yılmaz Nişancı, İstanbul, Turkey

Previous Editor-in-Chief

Bilgin Timuralp, Eskişehir, Turkey

Leyla Elif Sade, Pittsburgh, PA, USA Ahmet Temizhan, Ankara, Turkey Belma Turan, Ankara, Turkey Ercan Tutar, Ankara, Turkey Omaç Tüfekçioğlu, Ankara, Turkey F. Ajlan Tükün, Ankara, Turkey Taner Ulus, Eskişehir, Turkey Mehmet Uzun, İstanbul, Turkey Aylin Yıldırır, Ankara, Turkey Mehmet Birhan Yılmaz, İzmir, 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 Rașit 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: Vedat Aytekin Address: Nish İstanbul A Blok Kat: 8, No: 47-48 Çobançeşme Sanayi Cad. No: 11 Yenibosna, Bahçelievler 34196 İstanbul, Turkey Phone: +90 212 221 1730-38 Fax: +90 212 221 1754 E-mail: tkd@tkd.org.tr Web: www.tkd.org.tr CARDIOLOGY Editor-in-Chief Office: Phone: +90 (535) 461 41 62 Fax: +90 (212) 221 17 54 E-mail: info@anatoljcardiol.com

//AVES

Publisher İbrahim KARA

General Manager Ali ŞAHİN

Gizem KAYAN TEKAÜT **Publishing Director İrem SOYSAL**

Editor

Publication Coordinators Arzu YILDIRIM Deniz KAYA Bahar ALBAYRAK Gamze BİLGEN

Irmak BERBEROĞLU Alara ERGIN Ebru BOZ

Finance Coordinators Contact Elif YILDIZ ÇELİK Emre KARA

Web Coordinator Sinem Fehime KOZ

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

President Vedat AYTEKİN

President Elect Muzaffer DEĞERTEKİN

Vice president Enver ATALAR

Secretary General Ertuğrul OKUYAN

Secretary Bülent MUTLU

Treasurer Ahmet YILDIZ

Members Dursun ARAS Ersan TATLI Mehmet ERTÜRK

WORKING AND PROJECT GROUPS

Arrhythmia Working Group Association of Percutaneous Cardiovascular Interventions Cardiac Imaging Working Group Cardiovascular Prevention and Atherosclerosis Working Group Heart Failure Working Group Hypertension Working Group Heart Valve Diseases Working Group Pulmonary Vascular and Adult Congenital Heart Diseases Working Group CardioOncology Project Group **Clinical Studies Practice and Education** Project Group Digital Health Project Group Nursing and Technicians Project Group

THE EXECUTIVE BOARD OF TURKISH SOCIETY OF CARDIOLOGY

CONGRESS SCIENTIFIC COMMITTEE

Muzaffer DEĞERTEKİN, President Armağan ALTUN Dursun ARAS Hasan ARI Özaür ASLAN Enver ATALAR Saide AYTEKİN Vedat AYTEKİN Mehmet BALLI İbrahim BASARICI Avca BOYACI Nese CAM Alp Burak CATAKOĞLU Yüksel CAVUSOĞLU **İrem DİNCER** Okan ERDOĞAN Faruk ERTAS Mehmet ERTÜRK **Bülent GÖRENEK** Sadi GÜLEC Sema GÜNERİ Cemil İZGİ Aziz KARABULUT Mustafa KILICKAP Cevat KIRMA

İbrahim Halil KURT Hakan KÜLTÜRSAY Bülent MUTI U Sanem NALBANTGİL Abdurrahman OĞUZHAN Ertuğrul OKUYAN Alper ONBAŞILI Barış ÖKÇÜN Zeki ÖNGEN Ender ÖRNEK Nihal ÖZDEMİR Özcan ÖZEKE Necla Ö7FR Filiz ÖZERKAN Sami ÖZGÜL Leyla Elif SADE Vedat SANSOY Özlem SORAN Ersan TATLI İstemihan TENGİZ Selim TOPÇU Eralp TUTAR Murat TUZCU Oğuz YAVUZGİL Ahmet YILDIZ

The groups are listed in surname alphabetical order.

Dear Colleagues,

In addition to organizing various training programs and events throughout the year, the Turkish Society of Cardiology plans to hold the National Cardiology Congress in November, as always, at a level worthy of its 58th year.

The Society is planning to present the rich content of our congress, which is one of the leading scientific congresses at national and international level with both the number of participants and high quality scientific content, with a wide range of satisfying scientific programs and various social activities that will appeal to all our participants.

Our goal of making our congress the leading meeting of the region in the field of Cardiology continues.

Our colleagues from other continents, as well as our colleagues from the European Society of Cardiology, member countries, will attend our congress this year. We expect the participation in our congress, which we held online last year, to increase even more this year.

In our congress, we tried to prepare the best program for you. We will update and discuss our latest knowledge on cardiovascular diseases through "Symposiums", "Contrasting View" and "How To" sessions. We expanded our "Cardiology in Daily Practice" sessions under the title of "Young Cardiologists Sessions" to cover the entire cardiology practice.

We will improve our skills as well as our knowledge with the certified "Interactive Courses", the number of which we have increased due to the intense interest in the past years. In each of our sessions, there are valuable speakers and panelists from Turkey and the world who are prominent scientists of their areas.

We believe that our joint sessions with ESC, ACC, Turkish World Society of Cardiology, EACVI, EHRA and EAPCI will be watched carefully.

Our congress, whose international dimension has become stronger this year, will again be credited by the TSD.

We will be pleased to see you among us at our congress.

Looking forward to meeting with you all within the 37th Turkish Cardiology Congress with International Participation on 18-21 November 2021, to share our knowledge,

With our best wishes and best regards,

Prof. Dr. Vedat Aytekin President of TSC Chair Scientific Committee

CONTENTS

- ►S1 ORAL PRESENTATIONS
- ► S78 POSTER PRESENTATIONS

The abstracts are being reprinted without Journal editorial review.

The opinions expressed in this supplement are those of the panelists and are not attributable to the sponsor or the publisher, editor, or editorial board of the Anatolian Journal of Cardiology. Clinical judgement must guide each physican in weighing the benefits of treatment against the risk of toxicity. References made in the articles may indicate uses of drugs at dosages, for periods of time, and in combinations not included in the current prescribing information.