

Prof. Volkan TUZCU

Personal Information

Email: vtuzcu@medipol.edu.tr

Web: <https://avesis.medipol.edu.tr/vtuzcu>

International Researcher IDs

ORCID: 0000-0001-9008-4997

Yoksis Researcher ID: 123429

Education Information

Post Doctorate of Medicine, Baylor University, Cocuk Kardiyoloji/Elektrofizyoloji, United States Of America 1997 - 1998

Post Doctorate of Medicine, Wayne State University, Cocuk Kardiyoloji, United States Of America 1994 - 1997

Expertise In Medicine, Wayne State University, Cocuk Sagligi Ve Hastaliklari, United States Of America 1991 - 1994

Undergraduate, Istanbul University, Tıp Fakültesi, Turkey 1984 - 1990

Academic Titles / Tasks

Professor, Istanbul Medipol University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2016 - 2020

Academic and Administrative Experience

Istanbul Medipol University, 2016 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Transseptal puncture during catheter ablation associated with higher radiation exposure**
Rahman M., Smith G., Johnsrude C., LaPage M., Moore J., Shannon K., Anderson C., Papagiannis J., Lau K., Sanatani S., et al.
Cardiology in the young, vol.33, no.5, pp.754-759, 2023 (SCI-Expanded)
- II. **Functional evaluation of the tachycardia patient-derived iPSC cardiomyocytes carrying a novel pathogenic SCN5A variant**
Goktas Sahoglu S., KAZCI Y. E., TUNCAY E., Torun T., AKDENİZ C., TUZCU V., ÇAĞAVI E.
Journal of Cellular Physiology, vol.237, no.10, pp.3900-3911, 2022 (SCI-Expanded)
- III. **Utilising electroanatomic mapping during ablation in patients with CHD to reduce radiation exposure**
Rahman M., Moore J. P., Papagiannis J., Smith G., Anderson C., Shannon K. M., Razminia M., TUZCU V., McNinch N. L., Shauver L. M., et al.
Cardiology in the Young, vol.32, 2021 (SCI-Expanded)
- IV. **Acute outcomes of three-dimensional mapping for fluoroscopy reduction in paediatric catheter ablation for supraventricular tachycardia**
Anderson C., Rahman M., Bradley D. J., Breedlove K., Dick M., Lapage M. J., Martinez A. R., McNinch N. L., Moore J. P., Papagiannis J., et al.
Cardiology in the Young, vol.31, 2021 (SCI-Expanded)
- V. **Catheter ablation for supraventricular tachycardia in children \leq 20 kg using an electroanatomical**

system

Koca S., AKDENİZ C., TUZCU V.

Journal of Interventional Cardiac Electrophysiology, vol.55, no.1, pp.99-104, 2019 (SCI-Expanded)

- VI. **Catheter ablation of left posterior fascicular ventricular tachycardia in children with limited fluoroscopy exposure**
Koca S., AKDENİZ C., Karacan M., TUZCU V.
Cardiology in the Young, vol.29, no.6, pp.793-799, 2019 (SCI-Expanded)
- VII. **Transseptal Puncture for Catheter Ablation in Children**
Koca S., AKDENİZ C., TUZCU V.
Pediatric Cardiology, vol.40, no.4, pp.799-804, 2019 (SCI-Expanded)
- VIII. **Electroanatomic mapping-guided catheter ablation of atrial tachycardia in children with limited/zero fluoroscopy**
ELKIRAN Ö., AKDENİZ C., Karacan M., TUZCU V.
PACE - Pacing and Clinical Electrophysiology, vol.42, no.4, pp.453-457, 2019 (SCI-Expanded)
- IX. **Electroanatomic Mapping-Guided Catheter Ablation of Supraventricular Tachycardia in Children with Ebstein's Anomaly**
Ergul Y., Koca S., AKDENİZ C., TUZCU V.
Pediatric Cardiology, vol.39, no.7, pp.1445-1452, 2018 (SCI-Expanded)
- X. **Long-term outcomes following cryoablation of atrioventricular nodal reentrant tachycardia in children**
Karacan M., Çelik N., AKDENİZ C., TUZCU V.
PACE - Pacing and Clinical Electrophysiology, vol.41, no.3, pp.255-260, 2018 (SCI-Expanded)
- XI. **Comparison of 6-mm Versus 8-mm-Tip Cryoablation Catheter for the Treatment of Atrioventricular Nodal Reentrant Tachycardia in Children: A Prospective Study**
TUZCU V., Gul E. E., Karacan M., Kamali H., Celik N., AKDENİZ C.
Pediatric Cardiology, vol.38, no.6, pp.1220-1225, 2017 (SCI-Expanded)
- XII. **Deriving cryptographic keys from physiological signals**
Karaođlan Altop D., Levi A., TUZCU V.
Pervasive and Mobile Computing, vol.39, pp.65-79, 2017 (SCI-Expanded)
- XIII. **Catheter ablation of idiopathic right ventricular arrhythmias in children with limited fluoroscopy**
AKDENİZ C., Gul E. E., Celik N., Karacan M., TUZCU V.
Journal of Interventional Cardiac Electrophysiology, vol.46, no.3, pp.355-360, 2016 (SCI-Expanded)
- XIV. **Cryoablation with an 8-mm-Tip Catheter for Right-Sided Accessory Pathways in Children**
Tanidir I. C., Ergul Y., Ozturk E., Dalgic F., Kiplapinar N., Tola H. T., AKDENİZ C., TUZCU V.
PACE - Pacing and Clinical Electrophysiology, vol.39, no.8, pp.797-804, 2016 (SCI-Expanded)
- XV. **Management of paediatric arrhythmias in Europe**
Happonen J., Blom N., Celiker A., Drago F., Hebe J., Janousek J., Kornyei L., Kriebel T., Papagiannis J., Paul T., et al.
Europace, vol.17, no.12, pp.1884, 2015 (SCI-Expanded)
- XVI. **Cardiac Interventions in Pregnant Patients without Fluoroscopy**
TUZCU V., Gul E. E., ERDEM A., Kamali H., Saritas T., Karadeniz C., AKDENİZ C.
Pediatric Cardiology, vol.36, no.6, pp.1304-1307, 2015 (SCI-Expanded)
- XVII. **Implantation of looped epicardial cardioverter defibrillator coil on the surface of the right ventricular outflow tract**
Ozyuksel A., Ersoy C., AKDENİZ C., Akcevin A., TÜRKÖĐLU H., TUZCU V.
Journal of Cardiac Surgery, vol.30, no.4, pp.376-380, 2015 (SCI-Expanded)
- XVIII. **Electroanatomic mapping guided cryoablation of Mahaim pathways in children with limited fluoroscopy exposure**
Ozturk E., Ergul Y., Tanidir I. C., AKDENİZ C., Tola H. T., TUZCU V.
PACE - Pacing and Clinical Electrophysiology, vol.38, no.3, pp.362-367, 2015 (SCI-Expanded)
- XIX. **Treatment of depression in an adolescent with cardiomyopathy and arrhythmia**
Tanidir C., Tanidir I. C., TUZCU V.

- Cardiology in the Young, vol.25, no.7, pp.1418-1420, 2014 (SCI-Expanded)
- XX. **Cryoablation of septal accessory pathways in children: Midterm results**
Karadeniz C., AKDENİZ C., Turan O., TUZCU V.
PACE - Pacing and Clinical Electrophysiology, vol.37, no.9, pp.1095-1099, 2014 (SCI-Expanded)
- XXI. **Percutaneous closure of large VSD using a home-made fenestrated atrial septal occluder in 18-year-old with pulmonary hypertension**
Kamali H., Saritas T., ERDEM A., AKDENİZ C., TUZCU V.
BMC Cardiovascular Disorders, vol.14, 2014 (SCI-Expanded)
- XXII. **Transcatheter creation of a de novo communication across an extracardiac Fontan conduit for catheter ablation of a "left-sided" accessory pathway**
Kerst G., Schranz D., Buttgereit K., Gonzalez Y Gonzalez M. B., TUZCU V.
Clinical Research in Cardiology, vol.103, no.2, pp.165-168, 2014 (SCI-Expanded)
- XXIII. **Assessment of atrioventricular conduction following cryoablation of atrioventricular nodal reentrant tachycardia in children**
Kiplapinar N., Ergul Y., Akdeniz C., Saygi M., Ozyilmaz I., Gul E. E., Tuzcu V.
PACE - Pacing and Clinical Electrophysiology, vol.37, no.6, pp.712-716, 2014 (SCI-Expanded)
- XXIV. **Successful cryoablation of atrioventricular nodal reentrant tachycardia and coexisting accessory pathways without fluoroscopy**
Gul E. E., Ugur F. S., AKDENİZ C., TUZCU V.
Congenital Heart Disease, vol.8, no.6, 2013 (SCI-Expanded)
- XXV. **Effects of carvedilol therapy on cardiac autonomic control, QT dispersion, and ventricular arrhythmias in children with dilated cardiomyopathy**
Ofiaz M. B., Balli S., Kibar A. E., Ece I., AKDENİZ C., TUZCU V.
Medical Science Monitor, vol.19, no.1, pp.366-372, 2013 (SCI-Expanded)
- XXVI. **P wave signal-averaged electrocardiogram as a new marker for atrial tachyarrhythmias in postoperative Fontan patients**
TUZCU V.
JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY, vol.36, no.2, pp.602-607, 2000 (SCI-Expanded)

Articles Published in Other Journals

- I. **Electrocardiogram interpretation among pediatricians: Assessing knowledge, attitudes, and practice**
Ebrahim M., Alseid R., Aleinati R., Tuzcu V.
Annals of Pediatric Cardiology, vol.13, no.3, pp.205-211, 2020 (ESCI)
- II. **Electrophysiological properties of asymptomatic children and adolescents with the Wolff-Parkinson-White electrocardiographic pattern**
KOCA S., AKDENİZ C., TUZCU V.
Türk Kardiyoloji Derneği Arşivi, vol.47, no.8, pp.674-679, 2019 (Scopus)
- III. **Validation of a smartphone-based electrocardiography in the screening of QT intervals in children**
KARACAN M., ÇELİK N., Gul E. E., AKDENİZ C., TUZCU V.
NORTHERN CLINICS OF ISTANBUL = ISTANBUL KUZEY KLINIKLERI, vol.6, no.1, pp.48-52, 2019 (Peer-Reviewed Journal)
- IV. **Electrophysiological properties of asymptomatic children and adolescents with the Wolff-Parkinson-White electrocardiographic pattern Wolff-Parkinson-White elektrokardiyografik paterni olan asemptomatik çocuk ve ergenlerin elektrofizyolojik özellikleri**
Koca S., AKDENİZ C., TUZCU V.
Turk Kardiyoloji Dernegi Arsivi, vol.47, no.8, pp.674-679, 2019 (Scopus)
- V. **Can flecainide totally eliminate bidirectional ventricular tachycardia in pediatric patients with Andersen-Tawil Syndrome?**
Ergül Y., ÖZGÜR S., HANEDAN ONAN S., TUZCU V.

TURK KARDIYOLOJİ DERNEĞİ ARSİVİ, 2018 (Scopus)

- VI. **Can flecainide totally eliminate bidirectional ventricular tachycardia in pediatric patients with Andersen-Tawil syndrome? Flekainid Andersen-Tawil sendromlu pediyatrik hastalarda bidireksiyonel ventriküler taşikardi tamamen ortadan kaldırabilir mi?**
Ergül Y., Özgür S., Hanedan Onan S., TUZCU V.
Turk Kardiyoloji Dernegi Arsivi, vol.46, no.8, pp.718-722, 2018 (Scopus)
- VII. **Ablation of supraventricular tachycardia in children using a limited fluoroscopy approach with the electro-anatomical system guidance Çocuklarda elektroanatomik haritalama eşliğinde sınırlı floroskopi ile supraventriküler taşikardilerin ablasyonu**
ELKIRAN Ö., AKDENİZ C., TUZCU V.
Medeniyet Medical Journal, vol.33, no.4, pp.307-313, 2018 (Scopus)
- VIII. **Role of the Cardiac Magnetic Resonance Imaging in Young Patients with Cardiomyopathies and Atypical Ventricular Arrhythmias**
ÇELİK ALAÇAM N., GÜNDÜZ M., KAMALI H., ERDEM A., ELKIRAN Ö., KARADENİZ C., PAKSOY Y., AKDENİZ C., TUZCU V.
Pediatric Heart Journal, vol.3, no.3, pp.97-104, 2016 (Peer-Reviewed Journal)
- IX. **The Importance of Molecular Autopsy at Sudden Cardiac Deaths**
ŞAHİN Y., FEDAKAR R., KÖK E., ŞEN A., AKDENİZ C., TUZCU V., DEMİRCAN K.
Adli Tıp Dergisi, vol.30, no.2, pp.162-169, 2016 (Peer-Reviewed Journal)
- X. **Successful ablation of coexistent Mahaim tachycardia and right posterior accessory pathway in a patient with Ebstein's anomaly**
Göl E. E., AKDENİZ C., TUZCU V.
Turk Kardiyoloji Dernegi Arsivi, vol.44, no.5, pp.423-426, 2016 (Scopus)
- XI. **The use of flecainide in critical neonates and infants with incessant supraventricular tachycardias**
TUZCU V.
TURK KARDIYOLOJİ DERNEĞİ ARSİVİ, vol.43, no.7, pp.607-612, 2015 (Scopus)
- XII. **Left ventricular noncompaction and ventricular tachycardia diagnosed at preparticipation screening Spor Öncesi taramada saptanan sol ventrikül nonkompaksiyonu ve ventriküler taşikardi**
Binnetoğlu F. K., Yildirim Ş., Karadeniz C., Topaloğlu N., TUZCU V., KAYMAZ N.
Anatolian Journal of Clinical Investigation, vol.9, no.1, pp.229-231, 2015 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **SU-PhysioDB: A physiological signals database for body area network security**
Altop D. K., Levi A., TUZCU V.
2017 IEEE International Black Sea Conference on Communications and Networking, BlackSeaCom 2017, İstanbul, Turkey, 5 - 08 June 2017, vol.2018-January, pp.1-6
- II. **Feature-level fusion of physiological parameters to be used as cryptographic keys**
Altop D. K., Levi A., TUZCU V.
2017 IEEE International Conference on Communications, ICC 2017, Paris, France, 21 - 25 May 2017
- III. **Cryoablation of septal manifest accessory pathways without fluoroscopy in children: A single center experience**
KARADENİZ C., AKDENİZ C., TUZCU V.
EHRA EUROPACE - CARDIOSTIM 2017, 18 - 21 June 2017, vol.19, pp.405
- IV. **Risk stratification in children with Woff-Parkinson-White syndrome: Role of intermittent versus persistent preexcitation**
KARACAN M., AKDENİZ C., YEKELER R. İ., TUZCU V.
Heart Rhythm-2017, 10 - 13 May 2017, vol.14, pp.107-108
- V. **Pediyatrik Supraventriküler Aritmilerde Sınırlı Floroskopi ile Kateter Ablasyon: Tek Merkez, İlk Deneyimler**

KOCA S., PAÇ F. A., KAVURT A. V., ERİŞ D., ECE İ., TUZCU V.

Türk Kardiyoloji Derneği Ulusal Aritmi Toplantısı, Turkey, 4 - 07 May 2017

VI. Gecikmiş tanı alan Jerwel Lange-Nielsen sendromu olgusu

KOCABAŞ A., Özdemir G., Turan Ö., Tamburacı Uslu Z. D., AKDENİZ C., TUZCU V.

XVI. Ulusal Pediatrik Kardiyoloji ve Kalp Damar Cerrahi Kongresi, Antalya, Turkey, 19 - 22 April 2017

VII. Fetal başlangıçlı bilateral plevral effüzyonla prezente olan bir yenidoğan non-compaction kardiyomiyopati olgusu

Özdemir G., KOCABAŞ A., Tamburacı Uslu Z. D., Turan Ö., Oruç M., AKDENİZ C., TUZCU V.

XVI. Ulusal Pediatrik Kardiyoloji ve Kalp Damar Cerrahi Kongresi, Antalya, Turkey, 19 - 22 April 2017

VIII. Generation of human induced pluripotent stem cells for modelling novel mutations of Long QT Syndrome

ÇAĞAVİ E., Şahoğlu Göktaş S., Koç Yıldırım A., Akgül T., Görgülü G. İ., Tuzcu E., TUZCU V.

International Society for Stem Cell Research, 24 - 28 June 2016

IX. Towards using physiological signals as cryptographic keys in Body Area Networks

Altop D. K., Levi A., TUZCU V.

9th International Conference on Pervasive Computing Technologies for Healthcare, PervasiveHealth 2015, İstanbul, Turkey, 20 - 23 May 2015, pp.92-99

X. Generation of human induced pluripotent stem cells for cardiac disease modelling

Koç Yıldırım A., Şahoğlu Göktaş S., Akgül T., Tuzcu E., TUZCU V., ÇAĞAVİ E.

Uluslararası Moleküler Biyoloji Derneği Kongresi, 27 - 29 November 2015

XI. 20 Noncompaction Kardiyomyopati Vakasında Tanımladığımız Yeni Bir Yardımcı Tanı Kriteri

KAYA E., ERTAN AKAN G., KILIÇARSLAN R., PAKSOY Y., TUZCU V.

35. Ulusal Radyoloji Kongresi, Turkey, 11 - 16 November 2014