

Turkey's 2009 output of cardiovascular publications shows a four-year regression

Mekanik mitral kapak değişimi sonrası gelişen protez kapak-hasta uyumsuzluğu ve sistolik pulmoner arter basıncı üzerine etkisi

Altan Onat, M.D.

Turkish Society of Cardiology; Istanbul University, Cerrahpasa Faculty of Medicine, Department of Cardiology, Istanbul

The output of publications in cardiovascular medicine during 2009 originating from Turkey's institutions was evaluated based on data of the Web of Knowledge. Only original articles and reviews appearing full-text in source publications of Science Citation Index CD Edition were included. A weighted credit system was used for items published jointly by multiple departments or with a noncardiology Turkish institution. Turkey's publications declined substantially to 167 articles and reviews, with a parallel decrease in her share of world publication from 10.8 to 8.2 per mille. Six-sevenths of the output originated from adult cardiology. The median impact factor of 2.18 was higher roughly by 17% than in the previous year; half of the publications appeared in periodicals with an impact factor of 1.27 to 3.12, reflecting a consistent qualitative improvement. University medical faculties persisted to lag behind in productivity, while the Gülhane Military Medical Academy led by far, runners-up being the Turkish Society of Cardiology, Kartal Koşuyolu Training and Research Hospital, and medical faculties of Başkent University and Istanbul University.

Key words: Cardiovascular publications; Turkey; impact factor.

Putting more emphasis on consumption instead of thriving to become a producing community can only bring short-term, and basically an ineffective progression. Economic progression can only be possible by globally competing with the frontrunners. The fundamental way of doing this is to bring about creative innovations in the field of science and technology. By the year 2004, we had entered a rapid period of progression in scientific publications for the preceding 18 years.^[1,2] A similar development was registered in the field of cardiology.^[3] However, various indications show that we have entered a period of net regression in scientific

Kardiyovasküler tıp alanında 2009 yılında Türkiye kaynaklı uluslararası yayınlar, Web of Knowledge'den Science Citation Index'in CD edisyonuna kaynak dergiler ve yalnızca tam metinli makale ve derlemeler dikkate alınarak değerlendirildi. Birden fazla kurumdan ya da bilim dalından çıkan ortak yayınlar için bir kesirsel kredi sistemi uygulandı. Geçen yıl CD edisyonunda taranan dergilerde kardiyovasküler tıp alanında, Türkiye'den köken alan tam metinli makale ve derleme sayısı 167 ile yaklaşık dörtte bir oranında gerilerken, dünyadaki payımız da binde 10.8'den 8.2'ye indi. Yayın üretiminin 6/7'si yine erişkin kardiyolojisinden kaynaklandı. Makalelerin yayımlandığı dergilerin ortanca etki değeri (impakt faktör) 2.18 bulundu (yarısı 1.27-3.12 etki değerli dergilerde) ve geçen yıldakine göre kabaca %17 oranında yükseldi. Üniversite tıp fakültelerimizin ilgili bölümleri üretkenlikte geri kalmaya devam etti. Yayın üretkenliğinde GATA önde farkla giden kurumumuz oldu; onu Türk Kardiyoloji Derneği, Kartal Koşuyolu Araştırma Hastanesi ile Başkent Üniversitesi ve İstanbul Üniversitesi tıp fakülteleri izledi.

Anahtar sözcükler: Kardiyoloji yayınları; Türkiye; impakt faktörü.

publication for past five years, compared to the rapid progression of previous years.^[4]

It is normal for this cloudy condition to arouse great interest for the future about the course of activities in the field of cardiovascular medicine. Such evaluation can not possibly depend on an absolute number; however, evaluation should be made on yearly changes in the number of publications based on the Web of Knowledge data, standardizing this increase and also evaluating the quality and quantity of the journals in which our article are published by analyzing their impact factors.

Corresponding address: Dr. Altan Onat. Nispetiye Caddesi, No: 37/24, 34335 Etiler, İstanbul.
Tel: +90 - 212 - 351 62 17 E-mail: alt_onat@yahoo.com.tr

In this paper, highlight has been made of the status of our international publication in the field of cardiovascular diseases in the year 2009 and comments on the last year performance of journals in which they were published and also of our various institutions. A full list of full-text article references that have been published in international journals has also been included so that our colleagues working in a similar field may also get some benefit.

METHODS

In the Web of Knowledge service published on the Internet by the Thomson Reuters Institute for Scientific Information, a total of 24200 registered articles were found in the 2009 "addresses" section under the topic Turkey. Articles submitted from Turkey were individually analyzed during a three-week period. In addition to the journal that was published information was obtained from the reference institution and department which was indicated in the address provided, in order to identify articles dealing with cardiovascular medicine. A half score was given to a joint publication of the Turkish Society of Cardiology and a foreign based center or a local non-cardiology institution. Fractional points were allocated when necessary for the impact of cardiology institution according to the position and number of authors. More credit was given to the first author when authors were from different departments of the same faculty. Journals and editorial materials which were not listed in the Thomson Reuters ISI publication edition, summary of meetings and letters to the editor were excluded, leaving behind 167 full-text articles and review publications including adult cardiology, cardiovascular surgery and pediatric cardiology.

RESULTS

In this evaluation only full-text article and reviews are termed "articles". A total of 1.45 million publications were included in the online search of the Science Citation Index Expanded; however, a total of 1.76 million publications were registered since an average of 1.23 countries was given in the references. 13.6 per mille of this (24,197) were of Turkish origin (Table 1). There was a worldwide increase of 0.6% in 2009 in the total number of publication searched by Science Citation Index (SCI), compared to the previous year.

Of the 178 articles published in 2009 on cardiovascular medicine 170 were related to the field of cardiovascular medicine, (Table 2). Of the 167 articles evaluated, 142 were for adult cardiology, 20 for cardiovascular surgery and 5 for pediatric cardiology. Reference information of the 178 articles mentioned is provided as an appendix. Approximately 20.400 cardiovascular medicine articles are estimated to have been registered worldwide, in the SCI CD edition of 2009; the world quota of our publication was found to regress from 10.8 per mille in 2008, and 8.2 per mille last year.

The institutional sources of our cardiovascular medicine articles are shown in Table 2. The Gülhane Military Medical Academy (GATA) led by far this year with 24 articles, followed by the Turkish Society of Cardiology, Kartal Koşuyolu Training and Research Hospital, and medical faculties of Başkent University and Istanbul University with 6-to-9 articles. A total of 58 institutions contributed in large and small ways in the production of articles.

The names and impact factors of the 48 journals where our science articles are published are summarized in Table 3. Evaluation of the impact of our articles demonstrates that the median impact factor of these periodicals was 2.18 (one-fourth range of 1.27-3.12). The seven most preferred journals by our authors took a 60% share of our publications. These periodicals include Angiology, Thorac Cardiovasc Surg, Clin Cardiol, Int J Cardiovas Imaging, PACE, Coron Artery Dis and Int J Cardiol. Last year only 76% (10.4) of our articles were published in journals with an impact factor of ≥ 3.5 .

DISCUSSION

This study shows that the number of internationally high profile publications of the cardiovascular medicine community in Turkey and her share of world publication declined substantially in 2009 by approximately one-fourth compared to the previous year. This decline in the number and world share in publications of our 2005 cardiology performance is a great matter or concern. This year's considerable improvement in the impact factors of the journals publishing our studi-

Table 1. Science and cardiology publication produced in Turkey in 2008 and 2009

	2009		2008	
	Number	Index	Number	Index
Science and technology publication*	24,197	103	23,505	100
Science and technology article*§	19,494	105	18,518	100
Cardiovascular medicine article¶	167	76	220	100

*Data for online SCI Expanded; ¶Data including press edition; §Including reviews

Table 2. Distribution of Turkish cardiovascular medicine publications according to department and institution which were released in 2009 in the journals searched by SCI

	Total	Cardiology	Card. surgery	Ped.card.
Institutions	166.8	142.3	19.5	5.0
Gülhane Military Medical Academy (Haydarpaşa, Ankara)	24.1	22.3	1.33	0.5
Turkish Society of Cardiology	9.25	9.25	-	-
Kartal Koşuyolu Training and Research Hospital	7.5	7.5	-	-
Başkent University Faculty of Medicine (Ankara, Adana, Konya)	6.16	5.83	0.33	-
Istanbul University Faculty of Medicine	6.1	4.1	2	-
Siyami Ersek Thoracic and Cardiovascular Surgery Center	5.7	4.2	1	0.5
Gazi University Faculty of Medicine	5.55	5.05	0.5	-
Süleyman Demirel University Faculty of Medicine	5.5	3.5	2	-
Ankara Dışkapi Training and Research Hospital	5.5	5.5	-	-
Selçuk University Faculty of Medicine	5.3	5.3	-	-
Cumhuriyet University Faculty of Medicine	5	4.5	0.5	-
Gaziantep University Faculty of Medicine	5	5	-	-
Ege University Faculty of Medicine	4.25	4.25	-	-
Harran University Faculty of Medicine	4	4	-	-
Turkish Higher Training and Research Hospital	3.5	2.5	1	-
Hacettepe University Faculty of Medicine	3.5	2.5	-	1
Sütcü Imam University Faculty of Medicine	3	3	-	-
Karadeniz Technical University Faculty of Medicine	3	3	-	-
Istanbul Bilim University Faculty of Medicine	3	3	-	-
Ondokuz Mayıs University Faculty of Medicine	3	2	-	1
Ankara University Faculty of Medicine	3	-	2	1
Ankara Atatürk Training and Research Hospital	3	3	-	-
Istanbul University Cardiology Institute	2.83	2.5	0.33	-
Kocaeli University Faculty of Medicine	2.75	2.75	-	-
Erciyes University Faculty of Medicine	2.3	1.8	0.5	-
Yüzüncü Yıl University Faculty of Medicine	2	2	-	-
Uludağ University Faculty of Medicine	2	1	1	-
Trakya University Faculty of Medicine	2	2	-	-
Pamukkale University Faculty of Medicine	2	1.5	0.5	-
Marmara University Faculty of Medicine	2	1	1	-
Kecioren Training and Research Hospital	2	2	-	-
Göztepe Şafak Hospital	2	-	2	-
Düzce University Faculty of Medicine	2	2	-	-
Celal Bayar University Faculty of Medicine	2	-	1	-
Yeditepe University Faculty of Medicine	1.5	1.5	-	-
Sarıkaş Military Hospital	1.5	1.5	-	-
İnönü University Faculty of Medicine	1.45	1.45	-	-
Osmangazi University Faculty of Medicine	1.3	1.3	-	-
Izmir Atatürk Training and Research Hospital	1.25	1.25	-	-
Vakıf Gureba Training and Research Hospital	1	-	1	-
Akdeniz University Faculty of Medicine	1	-	1	-
Firat University Faculty of Medicine	0.8	0.8	-	-
MESA Hospital, Ankara	0.67	0.67	-	-
Dokuz Eylül University Faculty of Medicine	0.55	0.55	-	-
Yunus Emre Hospital, Ankara	0.5	0.5	-	-
Sonomed	0.5	0.5	-	-
Mustafa Kemal University Faculty of Medicine	0.5	0.5	-	-
Gümüşsuyu Hospital	0.5	0.5	-	-
Gaziosmanpaşa Hospital	0.5	0.5	-	-
Balikesir University Faculty of Medicine	0.5	0.5	-	-
The other 7 institutions	2.75	2.25	0.5	-

SCI: Science Citation Index

Table 3. Journal and their supplements which published our cardiovascular medicine article in the year 2009

Number	Name of journal	Impact factor*
1	J Am Coll Cardiol	9.70
0.2	Ann Med	5.78
0.2	J Hypertens	5.13
4.35	Atherosclerosis	4.60
0.1	Heart	4.14
0.2	Am Heart J	3.65
0.5	Int J Obes	3.64
1.85	Am J Cardiol	3.60
2	Nutr Metab Cardiovasc Dis	3.57
2	J Cardiovasc Electrophysiol	3.48
1	Clin Nutr	3.20
1	Diabet Med	3.17
2	Am J Hypertens	3.12
50.9	Int J Cardiol	3.12
3	Metabolism	2.92
1	Obesity	2.76
0.5	Endocrine	2.57
1	Thromb Res	2.45
2	Cardiovasc Drugs Ther	2.45
1.75	Circ J	2.39
3.5	J Am Soc Echo	2.26
3	Eur J Cardiothorac Surg	2.18
1	J Cardiovasc Pharmacol	2.02
3.5	Int J Clin Pract	2.01
1	Platelets	1.92
2	Cardiology	1.84
1	Cardiovasc Pathol	1.80
2	Clin Chem Lab Med	1.74
3	Blood Press	1.63
6	PACE	1.59
7	Coron Artery Dis	1.56
1	Ann Vasc Surg	1.50
0.8	Swiss Med Wkly	1.44
2.2	Can J Cardiol	1.42
1	Am J Med Sci	1.27
8.5	Int J Cardiovas Imaging	1.27
3	Scand J Clin Lab Invest	1.24
7	Clin Cardiol	1.21
1	Mediators Inflamm	1.16
1	Ann Noninvasive Electrocardiol	1.15
2	J Electrocardiol	1.13
3.5	J Heart Valve Dis	1.11
2	Tohoku J Exp Med	1.01
1	Catheter Cardiovasc Interv	1.00
1	J Cardiothorac Vasc Anesth	0.94
0.5	Pediatr Cardiol	0.83
10	Thorac Cardiovasc Surg	0.81
6	Angiology	0.63

*Impact factors for 2008 (a small portion for 2007)

es is a little bit consolatory. Among the research institutions GATA was in the lead, followed by the Turkish Society of Cardiology, Kartal Koşuyolu Training and Research Hospital, and medical faculties of Başkent University and Istanbul University. On the other hand, journals allocated a low quota by Science Citation In-

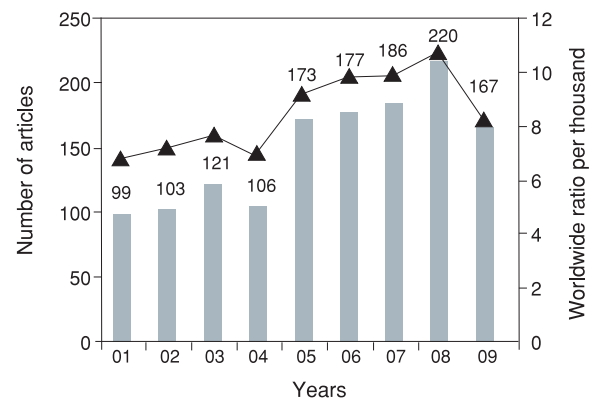


Figure 1. The nine-year progress of the number (bars) and our world share per mille (lines) between 2001-2009 for our high profile and international articles.

dex-Expanded published about 400 articles from our institutions; however, it is worth mentioning that these journals do not meet the criteria outlined in our method.

The year 2009 saw a stable number of the journals registered in SCI; however, Turkey's publications in cardiovascular medicine declined substantially by a share of the world publication from 10.8 to 8.2 per mille. Our mean world share of science publications during the 2001-2004 period was 7.1 per mille (Figure 1). However, our inability to get over this value when we were supposed to double our performance should intimidate those responsible. This evaluation holds for adult cardiology as well as pediatric cardiology and cardiovascular surgery.

In terms of benefit for the community and technology trust is given more to the consequential effect, or rather still the allocated citation of scientific publications, instead of the number of publications. The qualitative improvement obtained this year is a significant consolation. The 25 and 75 percentile value with regards to the impact factor of journal published increased in 2009 by one-sixth as compared to the previous year, from 1.27 to 3.12. According to estimations of new publications for citations of the subsequent period, the number of citations expected for 2008 was 410, whereas citation of 340 publications was estimated for 2009. This indicates a decline in the expected global impact for this year.

Special interest to a small portion of international journals by certain colleagues continues. There has been an increased concentration in the seven journal publishing 61% of the studies (impact factors of 1-3 ranging from Angiology to Int J Cardiol). The publication of 51 articles in the Int J Cardiol may have been due to special publication policies of the journal, which should not be expected last into next year. Majority of the good, valuable and informative Turkish studies which may not

meet the criteria set by the Western community, which controls most journal publication laws, often get rejected through a pre-elimination process without reaching the referees. The situation may be contributing to our publication concentrating in particular journals.

Our most prominent authors who played a leading role last year were H. Bozbas, E. Sade, and S. Eroglu once more from the Başkent University team. M. Sezer from Istanbul Faculty of Medicine drew great attention with the long-term study. S.A. Kocaman and A. Abacı from Gazi University and M. Fazlioglu from Uludag University and also I. Taşçı and T. Celik from GATA also produced important studies. The N.Erginel-Unaltuna team from Istanbul Faculty of Medicine produced genetic research in the field of cardiology.

Başkent University and GATA stand out as the most successful of our institutions for last year. Although many members of the team surrounding H. Muderrisoglu have been lost the continued productivity is praiseworthy. Istanbul and Gazi Universities, although not quantitative, have been producing qualitative studies. The TARF study, which produces research for the Turkish Society of Cardiology has occupied second place and has maintained its position at the forefront of the community of cardiovascular medicine for the 2009 calendar year, with a total of about 205 citations by the SCI. Studies by T. Celik (and partly A. Iyisoy) from GATA has with 17 registered short reports of 2-3 pages in the *Int J Cardiol*, but doesn't seem to be a candidate attracting great attention.

What can also be said about the fact that half of approximately 60 faculties of Medicine have not produced even one high quality publication for a whole year? Is it also exonerating that half of the Faculties which have been active for the past 30 year can not boast of a per-

formance of producing a modest three articles per year? Respected hospitals of the Ministry, especially the Turkish Higher Training and Research Hospital are known to have been buried in routine for the past two years, in the field of cardiovascular medicine. The political government and the Council of Higher Education should realize that we are experiencing a deadlock in the area of science as a whole and should take steps towards creation of a scientific environment in order to compensate for the 5-year recession.

It has been concluded that Turkey has experienced a substantial decline of about one-fourth in the number and world share of publications in 2009 in the field of cardiovascular medicine. On the other hand, the increased impact factor of article published compared to the previous year is considered as a consolation. GATA, Kartal Koşuyolu Training and Research Hospital, Başkent and Istanbul Universities, and the Turkish Society of Cardiology have stood out as institutions with the highest performance. An appeal has been made for those responsible to take serious and effective measures in order to alleviate the 5-year recession period in which Turkey finds itself.

REFERENCES

1. Onat A. Bilimsel yayınlarımızdaki tırmanma süreci. Cumhuriyet Bilim-Teknoloji 1 Mart 2003; sayı 832, s. 10-1.
2. Onat A. Yeni bilimsel yayın ve atıflar yükselişte. Cumhuriyet Bilim-Teknoloji 12 Ocak 2007; sayı 1034, s. 11.
3. Onat A. Türk kardiyovasküler tıp makaleleri 2003 yılında durgunlukta. Türk Kardiyol Dern Arş 2004;32: 125-35.
4. Onat A. Bilimsel makale üretimimizde yavaşlama 4 yıldır sürüyor. Cumhuriyet Bilim-Teknoloji 16 Ocak 2009; sayı 1139, s. 15.

APPENDIX

2009 Publications of Turkish Cardiovascular Medicine

Acil - Kard	Serinken M, Karcioğlu O, Korkmaz A: Rarely seen cardiotoxicity of lithium overdose: Complete heart block. <i>Int J Cardiol</i> . 132:276-8	½ Pamukkale Ü.
Biokim - Kard.	Erdamar H, Şen N, Tavil Y, Yazıcı HU, Turfan M, Poyraz F, Topal S, Okuyan H, Cemri M, Çengel A: The effect of nebivolol treatment on oxidative stress and antioxidant status in patients with cardiac syndrome-X. <i>Coron Artery Dis</i> . 20:238-4.	½ Gazi Ü.
Gen.-Kard	Kömürçü-Bayrak E, Erginel-Ünaltuna N, Onat A, Özsait B, Eklund C, Hurme M, Mononen N, Laaksonen R, Hergenç G, Lehtimäki T: Association of C-reactive protein (CRP) gene allelic variants with serum CRP levels and hypertension in Turkish adults. <i>Atherosclerosis</i> . 206:474-9.	Çapa Tıp Fak. TKD
İç - Kard	Erem C, Hacıhasanoğlu A, Değer O, Koçak M, Topbaş M: Prevalence of dyslipidemia and associated risk factors among Turkish adults: Trabzon lipid study. <i>Endocrine</i> . 2008;34:36-51	½ Karadeniz T.Ü.
İç-Kard.	Taşçı I, Erdem G, Özgür G, Tapan S, Doğru T, Genç H, Açıkcel C, Özgürtaş T, Sönmez A: LDL-cholesterol lowering increases plasma apelin in isolated hypercholesterolemia. <i>Atherosclerosis</i> . 204:222-8.	½ GATA

Kard.	Vatankulu MA, Göktekin Ö, Kaya MG, Ayhan S, Küçükduymaz Z, Sutton R, Henein M: Effect of long-term resynchronization therapy on left ventricular remodeling in pacemaker patients upgraded to biventricular devices. <i>Am J Cardiol.</i> 103:1280-4.	0.3 Selçuk Ü. 0.2 Osmangazi Ü. 0.2 Erciyes Ü.
Kard.	Barutçu İ, Esen AM, Özdemir R, Açıkgöz N, Türkmen M, Kıрма C: Effect of treadmill exercise testing on P wave duration and dispersion in patients with isolated myocardial bridging. <i>Int J Cardiovasc Imaging.</i> 25:465-70.	0.4 Avicenna H. 0.4 Koşuyolu H. 0.2 İnönü Ü.
Kard.	Akbulut M, Kutlu M, Özbay Y, Polat V, Bilen MN, Baydas A, Altas Y: Efficacy of clopidogrel on reperfusion and high-sensitivity C-reactive protein in patients with acute myocardial infarction. <i>Mediators Inflamm.</i> 2009:932515.	0.8 Fırat Ü. 0.2 Harput Dev. H.
Kard.	Çelik T, İyisoy A, Yüksel UC, Işık E: The role of abdominal obesity and weight gain since adolescence in early atherosclerosis. <i>Int J Cardiol.</i> 132:263-4.	0.8 GATA 0.2 Sarıkamış H.
Kard.	Harrington RA, Van de Werf F, Armstrong PW, ..., Timurkaynak T, ...: The Thrombin Receptor Antagonist for Clinical Event Reduction in Acute Coronary Syndrome (TRA-CER) trial: study design and rationale. <i>Am Heart J.</i> 158:327-334.	0.05 Gazi Ü.
Kard.	Redon J, Cifkova R, Laurent S, Nilsson P, Narkiewicz K, Erdine S, Mancina G: Mechanisms of hypertension in the cardiometabolic syndrome. <i>J Hypertens.</i> 27:441-51.	0.1 Cerrahpaşa Tıp Fak.
Kard.	Lam YY, Mullen MJ, Kaya MG, Gatzoulis MA, Li W, Henein MY: Left ventricular long axis dysfunction in adults with "corrected" aortic coarctation is related to an older age at intervention and increased aortic stiffness. <i>Heart.</i> 95:733-9.	0.1 Erciyes Ü.
Kard.	De Luca G, ..., Emre A, ..., Van't Hof AW; EGYPT Cooperation: Association between advanced Killip class at presentation and impaired myocardial perfusion among patients with ST-segment elevation myocardial infarction treated with primary angioplasty and adjunctive glycoprotein IIb/IIIa inhibitors. <i>Am Heart J.</i> 158:416-21.	0.15 Siyami Ersek
Kard.	Yılmaz MB, Güray Y, Altay H, Demirkan B, Çaldır V, Güray Ü, Bıyıkoğlu SF, Şaşmaz H, Kısacık HL, Korkmaz Ş: Fate of internal mammary artery grafted to left anterior descending artery is influenced by native vessel stenosis and viable myocardium. <i>Angiology.</i> 60:201-6.	½ Cumhuriyet Ü. ½ TYİH
Kard.	Yiğiner Ö, Baş S, Feray H: Demonstration of coronary-to-pulmonary fistula with MDCT and conventional angiography. <i>Int J Cardiol.</i> 29:e126-8.	½ Gümüşsuyu H. ½ Gaziosmanpaşa H.
Kard.	Duygu H, Nalbantgil S, Özerkan F, Zoghi M, Akılı A, Ertürk U, Akın M, Nazlı C, Ergene O: Effects of levosimendan on left atrial functions in patients with ischemic heart failure. <i>Clin Cardiol.</i> 2008;31:607-13.	¾ Ege Ü. ¼ İzmir Dev. H.
Kard.	Çelik T, İyisoy A, Yüksel UC, Işık E: Cellular cardiomyoplasty in acute myocardial infarction: Where are we now? <i>Int J Cardiol.</i> 135:111-4.	¾ GATA ¼ Sarıkamış H.
Kard.	Tigen K, Karaahmet T, Gürel E, Çevik C, Nugent K, Pala S, Tanalp AC, Mutlu B, Başaran Y: The utility of fragmented QRS complexes to predict significant intraventricular dyssynchrony in nonischemic dilated cardiomyopathy patients with a narrow QRS interval. <i>Can J Cardiol.</i> 25:517-22.	¾ Koşuyolu H.
Kard.	Bildirici U, Çelikyurt U, Ural E, Şahin T, Vural A, Köz C, Ural D: Successful percutaneous intervention to acute myocardial infarction presenting with typical chest pain in transplanted heart. <i>Circ J.</i> 73:2166-8.	¾ Kocaeli Ü. ¼ GATA
Kard.	Bitigen A, Çevik C, Biteker M, Can M, Ozdemir N: Takotsubo cardiomyopathy in a 52 year old patient. <i>Int J Cardiol.</i> 2009 Feb 6;132(1):E23-5.	¾ Koşuyolu H.
Kard.	Gimpel C, Wühl E, Arbeiter K, Drozd D, Trivelli A, Charbit M, Gellermann J, Dusek J, Jankauskiene A, Emre S, Schaefer F: Superior consistency of ambulatory blood pressure monitoring in children: implications for clinical trials. <i>J Hypertens.</i> 27:1568-74	1/10 Çapa Tıp Fak.
Kard.	Turfaner N, Karter Y, Curgunlu A, Ayan F, Mihmanlı I, Sipahioğlu F: Blunted nocturnal fall of blood pressure in isolated clinical hypertension. <i>Swiss Med Wkly.</i> 139:251-5.	1/3 Cerrahpaşa Tıp Fak.
Kard.	Oksala N, Levula M, Airla N, Pelto-Huikko M, Ortiz RM, Järvinen O, Salenius JP, Ozsait B, Kömürçü-Bayrak E, Erginel-Ünaltuna N, Huovila AP, Kytömäki L, Soini JT, Kähönen M, Karhunen PJ, Laaksonen R, Lehtimäki T: ADAM-9, ADAM-15, and ADAM-17 are upregulated in macrophages in advanced human atherosclerotic plaques in aorta and carotid and femoral arteries--Tampere vascular study. <i>Ann Med.</i> 41:279-90.	1/5 Çapa Tıp Fak.
Kard.	Demircan S, Yazıcı M, Durma K, Kılıçaslan F, Demir S, Pınar M, Gülel O: The importance of gamma-glutamyltransferase activity in patients with coronary artery disease. <i>Clin Cardiol.</i> 32:220-5	19 Mayıs Ü.
Kard.	Gülel O, Yüksel S, Soylu K, Kaplan O, Yılmaz O, Kahraman H, Şahin M: Evaluation of left atrial functions by color tissue Doppler imaging in adults with body mass indexes ≥ 30 kg/m ² versus those < 30 kg/m ² . <i>Int J Cardiovasc Imaging.</i> 25:371-7.	19 Mayıs Ü.
Kard.	Bitigen A, Çevik C, Turan B, Otahbachi M: Use of PTFE-covered stent in acute myocardial infarction of aneurysmatic coronary artery. <i>Int J Cardiol.</i> 132:E72-3.	2/3 Koşuyolu H.
Kard.	Özeke Ö, Çavuş UY, Atar İ, Özin B, İlkay E: Epsilon-like electrocardiographic pattern in a patient with Brugada syndrome. <i>Ann Noninvasive Electrocardiol.</i> 14(3):305-8.	2/3 MESA H. 1/3 Başkent Ü.
Kard.	Linefsky JP, ..., Güneri S, ..., Mahaffey KW: Comparison of site-reported and core laboratory-reported creatine kinase-MB values in non-ST-segment elevation acute coronary syndrome (from the international trial SYNERGY). <i>Am J Cardiol.</i> 104:1330-5.	0.05 Dokuz Eylül Ü.
Genetik -	Çağlayan AO, Dündar M: Inherited diseases and syndromes leading to aortic aneurysms and dissection.	½ Erciyes Ü.

KV Cerr.	ons. Eur J Cardiothorac Surg. 35:931-40.	
Kard.	Deveci E, Yeşil M, Akıncı B, Yeşil S, Postacı N, Arıkan E, Köseoğlu M: Evaluation of insulin resistance in normoglycemic patients with coronary artery disease. Clin Cardiol. 32:32-6.	Dokuz Eylül Ü. İzmir Atatürk Eğ. H.
Kard.	Dursun A, Demirbağ R, Yıldız A, Sezen Y, Altıparmak İH, Yılmaz R: Diagnosis of the left circumflex coronary artery fistula drainage into the left ventricle by echocardiographic color Doppler flow imaging. Int J Cardiol. 29:e85-6.	Adıyaman Yıl Dev. H. - Harran Ü.
Kard.	Yeter E, Akçay M, Keleş T, Durmaz T, Bayram NA, Özdemir L, Yüksel İ, Bozkurt E: The association of diastolic dysfunction and circadian variation of blood pressure in prehypertension. J Am Soc Echocardiogr. 22:726-31.	Ankara Atatürk Eğ. H.
Kard.	Akçay M, Yeter E, Bilge M, Şenkaya EB, Bozkurt M, Keleş T, Durmaz T, Davutoğlu V: False tendon rupture mimicking chorda rupture. J Am Soc Echocardiogr. 22:972.e5	Ankara Atatürk Eğ. H.
Kard.	Yaşar AS, Bilen E, Bilge M, Arslantaş U, Karakaş F: Impact of metabolic syndrome on coronary patency after thrombolytic therapy for acute myocardial infarction. Coron Artery Dis.20:387-91.	Ank. Atatürk. Eğ. H.
Kard.	Uyarel H, Ergelen M, Akkaya E, Ayhan E, Demirci D, Gül M, Işık T, Çiçek G, Günaydın ZY, Uğur M, Demirci DE, Türkkan C, Erer HB, Öztürk R, Yekeler İ: Impact of day versus night as intervention time on the outcomes of primary angioplasty for acute myocardial infarction. Catheter Cardiovasc Interv. 74:826-34.	Balıkesir Ü. Siyami Ersek
Kard.	Bozbaş H, Pirat B, Demirtaş S, Şimşek V, Yıldırım A, Sade E, Sayın B, Sezer S, Karakayalı H, Müderrisoğlu H: Evaluation of coronary microvascular function in patients with end-stage renal disease, and renal allograft recipients. Atherosclerosis. 202:498-504.	Başkent Ü.
Kard.	Eroğlu S, Sade LE, Yıldırım A, Bal U, Özbiçer S, Özgül AS, Bozbaş H, Aydınalp A, Müderrisoğlu H: Epicardial adipose tissue thickness by echocardiography is a marker for the presence and severity of coronary artery disease. Nutr Metab Cardiovasc Dis. 19:211-7.	Başkent Ü.
Kard.	Sade LE, Demir O, Atar İ, Müderrisoğlu H, Özin B: Effect of right ventricular pacing lead on left ventricular dyssynchrony in patients receiving cardiac resynchronization therapy. Am J Cardiol. 103:695-700	Başkent Ü.
Kard.	Çiftçi O, Çalışkan M, Güllü H, Erdoğan D, Topçu S, Güler O, Yıldırım A, Müderrisoğlu H: Acute effects of smoking light cigarettes on coronary microvascular functions. Clin Cardiol. 32:210-4	Başkent Ü. - Konya, Ankara
Kard.	Sade LE, Özin B, Ulus T, Açikel S, Pirat B, Bilgi M, Uluçam M, Müderrisoğlu H: Right ventricular contractile reserve in mitral stenosis: implications on hemodynamic burden and clinical outcome. Int J Cardiol. 135:193-201	Başkent Ü.
Kard.	De Luca G, ..., Emre A, ..., Van't Hof AW: Diabetes mellitus is associated with distal embolization, impaired myocardial perfusion, and higher mortality in patients with ST-segment elevation myocardial infarction treated with primary angioplasty and glycoprotein IIb/IIIa inhibitors. Atherosclerosis. 207:181-5.	0.05 Siyami Ersek
Kard.	Şaşmaz H, Yılmaz MB: Coronary collaterals in obese patients: impact of metabolic syndrome. Angiology. 60:164-8	Cumhuriyet Ü.
Kard.	Yılmaz MB, Yalta K: Coronary flow slows as renal function worsens. Clin Cardiol. 32:278-82.	Cumhuriyet Ü.
Kard.	Turgut O, Yılmaz MB, Yalta K, Tandogan İ, Yılmaz A: Prognostic relevance of coronary collateral circulation: clinical and epidemiological implications. Int J Cardiol. 12;137:300-1.	Cumhuriyet Ü.
Kard.	Yalta K, Turgut OO, Yılmaz MB, Yılmaz A, Tandogan İ: Dronedarone: A Promising Alternative for the Management of Atrial Fibrillation. Cardiovasc Drugs Ther. 23:385-393.	Cumhuriyet Ü.
Kard.	Kaşıkçıoğlu E, Oflaz H, Umman B, Buğra Z: Androgenic anabolic steroids also impair right ventricular function. Int J Cardiol. 134:123-5	Çapa Tıp Fak.
Kard.	Sezer M, Çimen A, Aslanger E, Elitok A, Umman B, Buğra Z, Yormaz E, Türkmen C, Adalet İS, Nişancı Y, Umman S: Effect of intracoronary streptokinase administered immediately after primary percutaneous coronary intervention on long-term left ventricular infarct size, volumes, and function. J Am Coll Cardiol. 54:1065-71.	Çapa Tıp Fak.
Kard.	Sezer M, Çimen A, Aslanger EK, Yormaz E, Türkmen C, Umman B, Buğra Z, Adalet İ, Nişancı Y, Adalet K, Umman S: Infarct remodeling process during long-term follow-up after reperfused acute myocardial infarction. Am J Med Sci. 338:465-9.	Çapa Tıp Fak.
Kard.	Doğan M, Açikel S, Aksoy MMN, Çağırıcı G, Kılıç H, Yeşilay A, Akdemir R: Coronary saddle embolism causing myocardial infarction in a patient with mechanical mitral valve prosthesis: Treatment with thrombolytic therapy. Int J Cardiol. 135:E47-8.	Dışkapı Eğ. H.
Kard.	Kılıç H, Akdemir R, Biçer A, Doğan M: Transient myocardial bridging of the left anterior descending coronary artery in acute inferior myocardial infarction. Int J Cardiol. 131:e112-4.	Dışkapı Eğ. H.
Kard.	Açikel S, Yıldırım A, Müderrisoğlu H: A rare presentation of primary spontaneous coronary dissection: left ventricular apical thrombus associated with ischemic cerebrovascular event. Int J Cardiol. 2009 May 15:e53-5.	Dışkapı H. Başkent Ü.
Kard.	Çağırıcı G, Çay S, Karakurt O, Eryaşar N, Açikel S, Doğan M, Yeşilay AB, Kılıç H, Akdemir R: P-wave dispersion increases in prehypertension. Blood Press. 18:51-4.	Dışkapı H. TYİH

Kard.	Albayrak S, Ordu S, Özhan H, Yazıcı M, Aydın M, Alemdar R, Kaya A: Effect of olmesartan medoxomil on cystatin C level, left ventricular hypertrophy and diastolic function. <i>Blood Press.</i> 18:187-191.	Düzce Ü.
Kard.	Yazıcı M, Kaya A, Kaya Y, Albayrak S, Cinemre H, Özhan H: Lifestyle modification decreases the mean platelet volume in prehypertensive patients. <i>Platelets.</i> 20:58-63.	Düzce Ü.
Kard.	Duygu H, Nalbantgil S, Zoghi M, Özerkan F, Yıldız A, Akıllı A, Akın M: Comparison of ischemic side effects of levosimendan and dobutamine with integrated backscatter analysis. <i>Clin Cardiol.</i> 32:187-92.	Ege Ü.
Kard.	Hasdemir C, Alp A, Aydın M, Can LH: Human model simulating right ventricular outflow tract tachycardia by high-frequency stimulation in the left pulmonary artery: autonomic and idiopathic ventricular arrhythmias. <i>J Cardiovasc Electrophysiol.</i> 2009;20:759-63.	Ege Ü.
Kard.	Hasdemir C, Alp A, Can LH: Successful balloon dilatation of the valve of Vieussens for left ventricular lead placement. <i>PACE.</i> 32:828-9.	Ege Ü.
Kard.	Kaya MG, Okyay K, Yazıcı H, Şen N, Tavil Y, Türkoğlu S, Timurkaynak T, Özdemir M, Cemri M, Yalçın R, Çengel A: Long-term clinical effects of magnetic resonance imaging in patients with coronary artery stent implantation. <i>Coron Artery Dis.</i> 20:138-42.	Erciyes Ü Gazi Ü.
Kard.	Topsakal R, Kaya MG, Duran M, Günebakmaz Ö, Doğan A, İnanç T, Yarıoğlu M, Çelik A, Ergin A: The relation between microalbuminuria and coronary collateral vessel development in patients with unstable coronary artery disease. <i>Coron Artery Dis.</i> 20:431-4.	Erciyes Ü.
Kard.	Özer O, Davutoğlu V, Sarı I, Akkoyun DC, Sucu M: The spectrum of rheumatic heart disease in the southeastern anatolia endemic region: results from 1900 patients. <i>J Heart Valve Dis.</i> 18:68-72.	Gaziantep Ü.
Kard.	Sarı I, Davutoğlu V, Erer B, Tekbaş E, Üçer E, Özer O, Uyarel H, Aksoy M: Analysis of circadian variation of acute myocardial infarction: afternoon predominance in Turkish population. <i>Int J Clin Pract.</i> 63:82-6.	Gaziantep Ü.
Kard.	Sarı İ, Özer O, Davutoğlu V, Sucu M, Aksoy M: Cough: an ominous symptom and a life saving manoeuvre in cardiology. <i>Int J Cardiol.</i> 133; e120-e121.	Gaziantep Ü.
Kard.	Sucu MM, Davutoglu V, Akcay M, Yiğiter R, Al B: Aortic elastic properties of patients with neurocardiogenic syncope. <i>Pacing Clin Electrophysiol.</i> 32:1417-21.	Gaziantep Ü.
Kard.	Davutoğlu V, Zengin S, Sarı İ, Yıldırım C, Al B, Yüce M, Ercan S: Chronic carbon monoxide exposure is associated with the increases in carotid intima-media thickness and C-reactive protein level. <i>Tohoku J Exp Med.</i> 219:201-6.	Gaziantep Ü.
Kard.	Barcin C, Kursaklioglu H, Kose S, Amasyalı B, Isik E: Takotsubo cardiomyopathy in a patient with Addison disease: is apical ballooning always reversible? <i>Int J Cardiol.</i> 2010;138:e15-7.	GATA
Kard.	Çelik T, Yüksel UÇ, Bugan B, Çelik M, Fici F, İyisoy A, Kılıç S, Sönmez A, Yaman H, Işık E: P-wave dispersion and its relationship to aortic elasticity in young prehypertensive patients. <i>Am J Hypertens.</i> 22:1270-5.	GATA
Kard.	Celik T, İyisoy A, Kardesoglu E, Fici F: The anti-inflammatory effects of nebivolol in human coronary smooth muscle cells: clinical implications. <i>Int J Cardiol.</i> 133:415-6.	GATA
Kard.	Çelik T, İyisoy A, Gül H, Işık E: Clopidogrel resistance: a diagnostic challenge. <i>Int J Cardiol.</i> 131:267-8.	GATA
Kard.	Çelik T, İyisoy A, Yüksel C, Jata B, Işık E: The clinical presentation of restenosis after bare metal stent implantation: behind a facade of benignity. <i>Int J Cardiol.</i> 135:401-3.	GATA
Kard.	Çelik T, İyisoy A, Amasyalı B, Bugan B, Işık E: Role of inflammation in the extent of microvascular obstruction in patients undergoing primary PCI. <i>Int J Cardiol.</i> 135:273-5.	GATA
Kard.	Çelik T, İyisoy A, Çelik M, Baysan O, Bek S, Doğru MT: A case of Guillain-Barré syndrome following prosthetic valve endocarditis. <i>Int J Cardiol.</i> 133:102-4.	GATA
Kard.	Çelik T, İyisoy A, Çelik M, Yüksel UC, Işık E: Muscle wastage in heart failure: Orphan of the heart failure. <i>Int J Cardiol.</i> 135:233-6.	GATA
Kard.	Çelik T, İyisoy A, Çelik M, Yüksel UC, Kardesoğlu E: C-reactive protein in chronic heart failure: a new predictor of survival <i>Int J Cardiol.</i> 135:396-7.	GATA
Kard.	Çelik T, İyisoy A, Doğru MT, Işık E: Coronary stent strut fracture after drug-eluting stent implantation: A newly recognized complication. <i>Int J Cardiol.</i> 132:121-2.	GATA
Kard.	Çelik T, İyisoy A, Gündoğdu F, Işık E: Chronic pulmonary cachexia syndrome: The role of anorexia. <i>Int J Cardiol.</i> 132:432-3.	GATA
Kard.	Çelik T, İyisoy A, Jata B, Çelik M, Günay C, Işık E: Beta blockers for the prevention of atrial fibrillation after coronary artery bypass surgery: carvedilol versus metoprolol. <i>Int J Cardiol.</i> 135:393-6.	GATA
Kard.	Çelik T, İyisoy A, Jata B, Kardesoğlu E, Işık E: Culprit only versus multivessel coronary revascularization in patients presenting with acute ST elevation myocardial infarction: unending debate. <i>Int J Cardiol.</i> 137:65-6.	GATA
Kard.	Çelik T, İyisoy A, Kardeşoğlu E, Bugan B, Işık E: Matrix metalloproteinases in acute coronary syndromes: A new therapeutic target? <i>Int J Cardiol.</i> 29:402-4.	GATA
Kard.	Çelik T, İyisoy A, Kardeşoğlu E, Işık E: The beneficial effects of angiotensin receptor blockers and angiotensin converting enzyme inhibitors on atrial electrical remodeling in patients with essential hypertension. <i>Int J Cardiol.</i> 132:265-7.	GATA

Kard.	Çelik T, İyisoy A, Yüksel UC, Jata B, Özkan M: The impact of admission C-reactive protein levels on the development of no-reflow phenomenon after primary PCI in patients with acute myocardial infarction: the role of inflammation. <i>Int J Cardiol.</i> 136:86-8.	GATA
Kard.	İyisoy A, Çelik T, Yüksel UC, Bugan B, Işık E: The value of hydration and acetylcysteine in the prevention of contrast-induced nephropathy: A potentially catastrophic complication of the percutaneous coronary interventions. <i>Int J Cardiol.</i> 29:431-3.	GATA
Kard.	Köse S, Amasyalı B, Kurşaklıoğlu H, Kılıç A, Işık E: Permanent junctional reciprocating tachycardia: an unusual presentation. <i>Int J Clin Pract.</i> 63:518-21.	GATA
Kard	Taşçılar E, Yokuşoğlu M, Dündaröz R, Baysan O, Öztürk S, Yozgat Y, Kılıç A: Cardiac autonomic imbalance in children with allergic rhinitis. <i>Tohoku J Exp Med.</i> 219:187-91.	GATA
Kard	Çelik T, İyisoy A, Yüksel UC, Işık E: Optimal revascularization strategy for diabetic patients with multivesel coronary artery disease: the duel between old hero and young warrior. <i>Int J Cardiol.</i> 131:269-70.	GATA Sarıkamış H.
Kard.	Çelik T, İyisoy A, Yüksel UC: mechanical plaque sealing in patients with acute coronary syndromes: A local solution for a systemic disease involving whole coronary arterial tree? <i>Int J Cardiol.</i> 135:102-4.	GATA Sarıkamış H.
Kard.	Kocaman SA, Şahinarslan A, Cemri M, Timurkaynak T, Boyacı B, Cengel A: Independent relationship of serum uric acid levels with leukocytes and coronary atherosclerotic burden. <i>Nutr Metab Cardiovasc Dis.</i> 19:729-35.	Gazi Ü.
Kard	Kocaman SA, Şahinarslan A, Arslan U, Timurkaynak T: The delta fractional flow reserve can predict lesion severity and long-term prognosis. <i>Atherosclerosis.</i> 203:178-84.	Gazi Ü.
Kard	Şahinarslan A, Kocaman SA, Olgun H, Kunak T, Kızıltunç E, Özdemir M, Timurkaynak T: The reliability of fractional flow reserve measurement in patients with diabetes mellitus. <i>Coron Artery Dis.</i> 20:317-321.	Gazi Ü.
Kard.	Yazıcı GE, Erden M, Taçoğlu GA, Yavuz BB, Türkoğlu S, Timurkaynak T: The optimal time of elective percutaneous coronary intervention for stable patients after ST elevation myocardial infarction. <i>Angiology.</i> 60:67-73.	Gazi Ü.
Kard.	Yıldız A, Özeke Ö, Akyol S, Demirbağ R, Yılmaz R, Gür M: Biventricular myocardial noncompaction presenting with complete atrioventricular block. <i>Int J Cardiol.</i> 132:E34-6.	Harran Ü
Kard.	Yıldız A, Tüfekçioğlu O, Aras D, Özeke Ö, Çelenk MK, Şaşmaz A: Myocardial noncompaction presenting with Brucella endocarditis. <i>Int J Cardiol.</i> 131:e87-9.	Harran Ü.
Kard.	Yıldız A, Yılmaz R, Demirbağ R, Gür M: What seals the inflammation in acute coronary syndromes? <i>Int J Cardiol.</i> 135:107-7.	Harran Ü.
Kard.	Yıldız A, Özeke Ö, Aras D, Yılmaz R: Myocardial noncompaction and myocardial bridging: A novel coexistence? <i>Int J Cardiol.</i> 2009 May 29;134(3):e101-2.	Harran Ü. TYİH
Kard.	Can I, Aytemir K, Demir AU, Deniz A, Ciftci O, Tokgozoglul L, Oto A, Sahin A: P-wave duration and dispersion in patients with obstructive sleep apnea. <i>Int J Cardiol.</i> 133:e85-9.	Hacettepe Ü.
Kard.	Kocabaş U, Kaya EB, Aytemir K, Yorgun H, Kepez A, Aksoy H, Ateş AH, Tulumen E, Deveci OS, Kabakçı G, Tokgözoğlu L, Nazlı N, Özkutlu H, Oto A: A novel method for the diagnosis of neurocardiogenic syncope: Heart rate recovery index. <i>Cardiology.</i> 114:50-55.	Hacettepe Ü.
Kard.	Turhan H, Yaşar AS, Yağmur J, Kurtoğlu E, Yetkin E: The impact of metabolic syndrome on left ventricular function: evaluated by using the index of myocardial performance. <i>Int J Cardiol.</i> 132:382-6.	İnönü Ü.
Kard.	Tuğcu A, Güzel D, Yıldırım Türk O, Aytekin S: Evaluation of Right Ventricular Systolic and Diastolic Function in Patients with Newly Diagnosed Obstructive Sleep Apnea Syndrome without Hypertension. <i>Cardiology.</i> 113:184-192.	İstanbul Bilim Ü.
Kard.	Çatakoğlu AB, Aytekin V, Aytekin S, Duran C, Polat B, Demiroğlu C: Aneurysm of the membranous septum detected during left ventriculography and demonstrated by cardiac magnetic resonance imaging. <i>Int J Cardiol.</i> 136:E60-62.	İstanbul Bilim Ü
Kard.	Tuğcu A, Yıldırım Türk O, Tayyareci Y, Sağbaş E, Yazıcıoğlu N, Aytekin S: Right atrial pacemaker lead thrombosis causing tricuspid inflow obstruction. <i>Pacing Clin Electrophysiol.</i> 32:262-4.	İstanbul Bilim Ü
Kard.	Duygu H, Akman L, Özerkan F, Akercan F, Zoghi M, Nalbantgil S, Ertürk U, Akıllı A, Önder R, Akın M: Comparison of the effects of new and conventional hormone replacement therapies on left ventricular diastolic function in healthy postmenopausal women: a Doppler and ultrasonic backscatter study. <i>Int J Cardiovasc Imaging.</i> 25:387-96.	İzmir Atatürk Eğ. H. Ege Ü.
Kard.	Başkurt M, Yıldız A, Çağlar IM, Kılıçkesmez K, Ökçün B, Özkan AA, Ersanlı M, Gürmen T: Right coronary artery arising from the pulmonary trunk. <i>Thorac Cardiovasc Surg.</i> 57:424-6.	Kard. Enst.
Kard.	Uzunhasan I, Yıldız A, Coşkun U, Kalyoncuoğlu M, Başkurt M, Çakar MA, Kaya A, Pehlivanoğlu S, Enar R, Ökçün B: Effects of aldosterone blockade on left ventricular function and clinical status during acute myocardial infarction. <i>Scand J Clin Lab Invest.</i> 69:545-9.	Kard. Enst.
Kard.	Gedikli O, Yılmaz H, Kiriş A, Karaman K, Öztürk S, Baykan M, Uçar U, Durmuş I, Karahan C, Çelik S: Circulating levels of relaxin and its relation to cardiovascular function in patients with hypertension. <i>Blood Press.</i> 18:68-73.	Karadeniz T. Ü.
Kard.	Gökçe M, Korkmaz L, Öz D, Örem C, Kiriş A, Ahmetoğlu A: Metastatic adenocarcinoma in the right atrium and secondary Budd-Chiari syndrome (a case report). <i>Int J Cardiol.</i> 132:E1-4.	Karadeniz T. Ü.
Kard.	Ertuğrul DT, Yavuz B, Yalçın AA, Küçükazman M, Ata N, Yenigün EC, Ülger Z, Kızılcıca G, Akın KO,	Keçiören Dev. H.

- Nazlıgül Y: Hashimoto's thyroiditis is a frequent occurrence in patients with rheumatic mitral stenosis. *J Heart Valve Dis.* 2008;17:635-8.
- Kard. Yavuz B, Ertuğrul DT, Çil H, Ata N, Akın KO, Yalçın AA, Küçükazman M, Dal K, Hokkaömeroğlu MS, Yavuz BB, Tatal E: Increased levels of 25 hydroxyvitamin d and 1,25-dihydroxyvitamin D after rosuvastatin treatment: a novel pleiotropic effect of statins? *Cardiovasc Drugs Ther.* 23:295-9. Keçiören Eğt. H.
- Kard. Bildirici U, Çelikyurt U, Ural E: Essential Thrombocythemia: A Case of Acute ST-Segment Elevation Myocardial Infarction in a Young Female. *Clin Cardiol.* 32:104-5. Kocaeli Ü.
- Kard. Ural E, Bildirici U, Çelikyurt U, Kılıç T, Şahin T, Acar E, Kahraman G, Ural D: Long-term prognosis of non-interventionally followed patients with isolated myocardial bridge and severe systolic compression of the left anterior descending coronary artery. *Clin Cardiol.* 32:454-7. Kocaeli Ü.
- Kard. Biteker M, Duran NE, Biteker FS, Ertürk E, Aykan AC, Civan HA, Özkan M: Kounis syndrome secondary to amoxicillin/clavulanic acid use in a child. *Int J Cardiol.* 136:e3-5. Koşuyolu H.
- Kard. Boztosun B, Dündar C, Aung SM, Kirma C: Left main coronary artery stenting in a patient with acute myocardial infarction and cardiogenic shock. *Int J Cardiol* 132:E88-90. Koşuyolu H.
- Kard. Kargin R, Rabuş MB, Bitigen A, Özdemir N, Yakut C: Extended septal myectomy for hypertrophic obstructive cardiomyopathy with anomalous insertion of chordae tendineae. *J Am Soc Echocardiogr.* 22:1196.e3-4. Koşuyolu H.
- Kard. Pala S, Kahveci G, Akçakoyun M, Kargin R, Tigen K, Tanalp AC, Karaahmet T, Karapınar H, Kirma C: Reliability of ultrasonography in detecting flow mediated dilation. *Int J Cardiovasc Imaging.* 25:705-11. Koşuyolu H.
- Kard. Yıldız M, Duran NE, Kocabay G, Özkan M: An unreported cause of pacemaker dysfunction: fracture of tines. *J Cardiovasc Electrophysiol.* 20:226. Koşuyolu H.
- Kard. Yalçın F, Müderrisoğlu H: Tako-tsubo cardiomyopathy may be associated with cardiac geometric features as observed in hypertensive heart disease. *Int J Cardiol* 135:251-2 M. Kemal Ü. Başkent Ü.
- Kard. Ağırbaşı M, Ağaoğlu NB, Orak N, Çağlıöz H, Öcek T, Poci N, Salaj A, Maya S: Sex hormones and metabolic syndrome in children and adolescents. *Metabolism.* 58:1256-62. Marmara Ü.
- Kard. Görenek B: Clinical importance of short-long-short sequences: analysing the mode of onset of ventricular tachycardias and atrial fibrillation. *Int J Cardiol.* 137:177-80. Osmangazi Ü.
- Kard. Kılıç D, Evrengül H, Özcan AV, Tanrıverdi H, Çağlıyan Ö, Kaftan A: Acute ST segment elevation myocardial infarction after sulbactam-ampicillin induced anaphylactic shock in an adult with significant coronary artery disease: A case report. *Int J Cardiol.* 135:E30-3. Pamukkale Ü.
- Kard. Doğan A, Akçay S, Karabacak M, Türker Y, Özaydın M, Erdoğan D: The effect of pretreatment with renin-angiotensin-aldosterone system blockers on cardioversion success and acute recurrence of atrial fibrillation. *Int J Clin Pract.* 63:1017-23. S. Demirel Ü.
- Kard. Doğan A, Gedikli O, Özaydın M, Acar G, Avşar A, Altınbaş A: Mitral annular velocity by Doppler tissue imaging for the evaluation of atrial stunning after cardioversion of atrial fibrillation. *Int J Cardiovasc Imaging.* 25:113-20. S. Demirel Ü. Karadeniz T. Ü.
- Kard. Varol E, İçli A, Özaydın M, Erdoğan D, Arslan A: Mean platelet volume is elevated in patients with myocardial infarction with normal coronary arteries, as in patients with myocardial infarction with obstructive coronary artery disease. *Scand J Clin Lab Invest.* 69:570-4. S. Demirel Ü.
- Kard. Varol E, Özaydın M, Türker Y, Alaca S: Mean platelet volume, an indicator of platelet activation, is increased in patients with mitral stenosis and sinus rhythm. *Scand J Clin Lab Invest.* 69:708-12. S. Demirel Ü.
- Kard. İlhan E, Güvenç TS, Poyraz E, Ayhan E, Soylu O: Kounis Syndrome secondary to cefuroxime axetil use in an asthmatic patient. *Int J Cardiol.* 137:e67-9. Siyami Ersek
- Kard. Emre A, Öz D, Yeşilçimen K, Sayar N, Ergun D: Impact of the metabolic syndrome on aortic pulse pressure and ascending aortic pulsatility in patients with angiographically normal coronary arteries. *Can J Cardiology.* 25:411-414. Siyami Ersek
- Kard. Nurkalem Z, Görgülü S, Uslu N, Orhan AL, Alper AT, Erer B, Zencirci E, Aksu H, Eren M. Longitudinal left ventricular systolic function is impaired in patients with coronary slow flow. *Int J Cardiovasc Imaging.* 25:25-32. Siyami Ersek
- Kard. Orhan AL, Okuyan E, Ökçün B, Nurkalem Z, Sayar N, Soylu O, Uslu N, Yıldız A, Eren M, Mutlu H, Küçükkoğlu S: Plasma homocysteine level and left ventricular thrombus formation in acute anterior myocardial infarction patients following thrombolytic therapy with t-PA. *Thromb Res.* 124:65-9. Siyami Ersek Kard. Enst.
- Kard. Aygül N, Özdemir K, Düzenli MA, Aygül MU: The comparative effects of long-term carvedilol versus bisoprolol therapy on QT dispersion in patients with chronic heart failure. *Cardiology.* 112:168-73. Selçuk Ü.
- Kard. Soylu A, Yazıcı M, Düzenli MA, Tokaç M, Özdemir K, Gök H: Relation between abnormalities in circadian blood pressure rhythm and target organ damage in normotensives. *Circ J.* 2009; 73:899-904. Selçuk Ü.
- Kard. Kayrak M, Sönmez O, Vatankulu MA, Ülgen MS: Completely asymptomatic proximal aortic dissection and massive bullous lung disease: coincidence or is there any etiologic link? *Eur J Cardiothorac Surg.* 35:1102-4. Selçuk Ü. Meram Tıp Fak.
- Kard.. Soylu A, Özdemir K, Düzenli MA, Yazıcı M, Tokaç M: Impact on diabetes mellitus on the epicardial coronary flow velocity assessed by the thrombolysis in myocardial infarction frame count. *Angiology.* 60:431-40. Selçuk Ü. Meram Tıp Fak.

Kard.	Sönmez O, Gül EE, Duman C, Düzenli MA, Tokaç M, Cooper J: Type II bidirectional ventricular tachycardia in a patient with myocardial infarction. <i>J Electrocardiol.</i> 42:631-2.	Selçuk Ü. Meram Tıp Fak.
Kard.	Akçay A, Acar G, Suner A, Sökmen A, Sökmen G, Nacar AB, Tuncer C: Effects of slow coronary artery flow on P-wave dispersion and atrial electromechanical coupling. <i>J Electrocardiol.</i> 42:328-33.	Sütçü İmam Ü.
Kard.	Acar G, Akçay A, Sökmen A, Özkaya M, Güler E, Sökmen G, Kaya H, Nacar AB, Tuncer C. Assessment of atrial electromechanical delay, diastolic functions, and left atrial mechanical functions in patients with type 1 diabetes mellitus. <i>J Am Soc Echocardiogr.</i> 22:732-8.	Sütçü İmam Ü.
Kard.	Tuncer C, Gümüştalan Y, Sökmen A, Sökmen G, Koroğlu S, Suner A: A previously undescribed anomaly of left anterior descending artery: Type V dual left anterior descending artery. <i>Int J Cardiol.</i> 29:e141-3.	Sütçü İmam Ü.
Kard.	Onat A, Ayhan E, Hergenç G, Can G, Barlan MM: Smoking inhibits visceral fat accumulation in Turkish females: Relation of visceral fat and body fat mass to atherogenic dyslipidemia, inflammatory markers, insulin resistance and blood pressure. <i>Metabolism.</i> 58:963-70.	TKD
Kard.	Onat A, Can G, Ayhan E, Kaya Z, Hergenç G: Impaired protection against diabetes and coronary heart disease by high-density lipoproteins in Turks. <i>Metabolism.</i> 58:1393-9.	TKD
Kard.	Onat A, Hergenç G, Ağırbaşı M, Kaya Z, Can G, Ünaltuna NE: Preheparin serum lipoprotein lipase mass interacts with gender, gene polymorphism and, positively, with smoking. <i>Clin Chem Lab Med.</i> 47:208-15.	TKD
Kard.	Onat A, Hergenç G, Ayhan E, Uğur M, Can G: Impaired anti-inflammatory function of apolipoprotein A-II concentrations predict metabolic syndrome and diabetes at 4 years follow-up in elderly Turks. <i>Clin Chem Lab Med.</i> 47:1389-94.	TKD
Kard.	Onat A, Hergenç G, Ayhan E, Uğur M, Kaya H, Tuncer M, Can G: Serum apolipoprotein C-III in high-density lipoprotein: a key diabetogenic risk factor in Turks. <i>Diabet Med.</i> 26:981-988.	TKD
Kard.	Onat A, Hergenç G, Can G, Küçükdemir Z: Serum adiponectin confers little protection against diabetes and hypertension in Turkish men. <i>Obesity.</i> 17:564-70.	TKD
Kard.	Onat A, Hergenç G, Yüksel H, Can G, Ayhan E, Kaya Z, Dursunoğlu D: Neck circumference as a measure of central obesity: associations with metabolic syndrome and obstructive sleep apnea syndrome beyond waist circumference. <i>Clin Nutr.</i> 28:46-51.	TKD
Kard.	Onat A, Özhan H, Erbilin E, Albayrak, S, Küçükdemir Z, Can G, Keleş İ, Hergenç G: Independent prediction of metabolic syndrome by plasma fibrinogen in men, and predictors of elevated levels. <i>Int J Cardiol.</i> 135:211-7.	TKD
Kard.	Onat A, Uğur M, Hergenç G, Can G, Ordu S, Dursunoğlu D: Lifestyle and metabolic determinants of incident hypertension, with special reference to cigarette smoking: a longitudinal population-based study. <i>Am J Hypertens.</i> 22:156-62.	TKD
Kard.	Büyüklü M, Ufacık O, Pirhan O, Tatlı E: A rare association recognized before cardiac surgery: Persistent left superior vena cava and secundum atrial septal defect. <i>Int J Cardiol.</i> 132:E82-4.	Trakya Ü.
Kard.	Tatlı E, Yıldırım T, Aktöz M: Does coronary slow flow phenomenon lead to myocardial ischemia? <i>Int J Cardiol.</i> 131:e101-2.	Trakya Ü.
Kard.	Selçuk Ü. H, Temizhan A, Selçuk Ü. MT, Şen T, Maden O, Tekeli S, Şaşmaz A: Impact of metabolic syndrome on future cardiovascular events in patients with first acute myocardial infarction. <i>Coron Artery Dis.</i> 20:370-5.	TYİH
Kard.	Fazlıoğlu M, Şentürk T, Kumbay E, Kaderli AA, Yılmaz Y, Özdemir B, Baran I, Aydınlar A: Small arterial elasticity predicts the extent of coronary artery disease: Relationship with serum uric acid. <i>Atherosclerosis.</i> 202:200-4.	Uludağ Ü.
Kard.	Kepez A, Harmancı A, Hazirolan T, Işıldak M, Kocabaş U, Ateş A, Çiftçi O, Tokgözoğlu L, Gürlek A: Evaluation of subclinical coronary atherosclerosis in mild asymptomatic primary hyperparathyroidism patients. <i>Int J Cardiovasc Imaging.</i> 25:187-193.	Y. Emre H. Hacettepe Ü.
Kard.	Eroğlu E, Gemici G, Bayrak F, Kalkan AK, Değertekin M: Acute myocardial infarction in a 24 year-old man possibly associated with sibutramine use. <i>Int J Cardiol.</i> 137:E43-E45.	Yeditepe Ü.
Kard.	Gemici G, Güneysu T, Eroğlu E, Bayrak F, Sevinç D, Aytacçar S, Kaya Z, Mutlu B, Değertekin M: Prevalence of left main coronary artery disease among patients referred to multislice computed tomography coronary examinations. <i>Int J Cardiovasc Imaging.</i> 25:433-8.	Yeditepe Ü. Sonomed
Kard.	Güneş Y, Tuncer M, Güntekin U, Akdağ S, Gümrükçüoğlu HA: The effects of trimetazidine on p-wave duration and dispersion in heart failure patients. <i>Pacing Clin Electrophysiol.</i> 32:239-44.	Yüzüncü Yıl Ü.
Kard.	Güntekin U, Güneş Y, Tuncer M, Şimsek H, Gümrükçüoğlu HA, Arslan S, Günes A: QTc dispersion in hyperthyroidism and its association with pulmonary hypertension. <i>Pacing Clin Electrophysiol.</i> 32:494-9.	Yüzüncü Yıl Ü.
Kard. - Endokr.	Deniz F, Ermiş N, Kepez A, Türk B, Akkoyunlu M, Kara B, Kutlu M. Evaluation of vascular reactivity of young male hypogonadotropic hypogonadism patients. <i>Int J Cardiovasc Imag.</i> 26:35-40	¼ Yunus Emre H. ¼ İnönü Ü.
Kard. - Endokr.	Kartal I, Oflaz H, Pamukçu B, Meriç M, Aral F, Özbey N, Alagöl F. Investigation of early atherosclerotic changes in acromegalic patients. <i>Int J Clin Pract.</i> 2010;64:39-44.	½ Çapa Tıp Fak.
Kard. - Ürol	Özcan T, Bozlu M, Muslu N, Gözükara KH, Seyis S, Akçay B: Elevation of the serum total and free prostate specific antigen levels after stent implantation in patients with coronary artery disease. <i>Swiss Med Wkly.</i> 139:672-5.	½ Mersin Ü.

KV Cerr.	Erek E, Padala M, Pekkan K, Jimenez J, Yalçınba YK, Salihoğlu E, Sarioğlu T, Yoganathan AP: Mitral web--a new concept for mitral valve repair: improved engineering design and in-vitro studies. <i>J Heart Valve Dis.</i> 18:300-6.	½ Acıbadem H.
KV Cerr.	Mete A, Erbasan O, Kemaloğlu C, Özbudak IH, Türkay C: Pulmonary artery obstruction due to papillary fibroelastoma on the pulmonary valve: a rare cardiac tumor. <i>Thorac Cardiovasc Surg.</i> 57:116-8.	Akdeniz Ü.
KV Cerr.	Şırlak M, Özçınar E, Eren NT, Eryılmaz S, Uysalel A, Enneli D, Özyurda U: Multiple hydatid cystectomy of the heart necessitating LIMA to LAD anastomosis in a young patient. <i>Cardiovasc Pathol.</i> 18:53-6.	Ankara Ü.
KV Cerr.	Akar AR, Durdu S, Arat M, Kılıçkap M, Küçük NÖ, Arslan Ö, Kuzu I, Özyurda Ü: Five-year follow-up after transepical implantation of autologous bone marrow mononuclear cells to ungraftable coronary territories for patients with ischaemic cardiomyopathy. <i>Eur J Cardiothorac Surg.</i> 36:633-43.	Ankara Ü.
KV Cerr.	Omay O, Ozker E, Suzer K: Glenn shunt as an alternative procedure for rheumatoid triple valve disease with tricuspid stenosis. <i>Thorac Cardiovasc Surg.</i> 57:170-2.	Başkent Ü. - GATA Kard. Enst.
KV Cerr.	Aydın U, Ugurlucan M, Gungor F, Ziyade S, Inan B, Banach M, Kalko Y, Yasar T: Effects of atorvastatin on vascular intimal hyperplasia: an experimental rodent model. <i>Angiology.</i> 60:370-7.	Bezm-i Alem Gureba
KV Cerr.	Kurdal AT, Üstündağ N, Güven A, Iskesen I, Bozkurt K, Şirin BH: Protection of saphenous vein graft from arterial pressure: an experimental study. <i>Thorac Cardiovasc Surg.</i> 57:333-8.	C. Bayar Ü.
KV Cerr.	Göksel OS, El H, Tireli E, Dayioğlu E: Combined aortic and mitral valve replacement in a child with mucopolysaccharidosis type I: A case report. <i>J Heart Valve Disease.</i> 18:214-6.	Çapa Tıp Fak.
KV Cerr.	Uğurlucan M, Sayın OA, Nisli K, Aydoğan U, Dayioğlu E, Tireli E: Modified central aortopulmonary shunt with end-to-end anastomosis of the shunt to the pulmonary trunk: Early results of a novel shunt procedure for first-stage palliation of infants with pulmonary atresia and hypoplastic pulmonary arteries. <i>Thorac Cardiovasc Surg.</i> 57:85-90.	Çapa Tıp Fak.
KV Cerr.	Yavuz I, Asgün FH, Bolcal C, Bingöl H, Yokuşoğlu M, Baysan O, Özgürtaş T, Demirkılıç U, Tatar H: Importance of urinary measurement of glutathione S-transferase in renal dysfunction patients after on- and off-pump coronary artery bypass surgery. <i>Thorac Cardiovasc Surg.</i> 57:125-9.	GATA
KV Cerr.	Hulusi M, Basaran M, Uğurlu can M, Kocailik A, Başaran EK: Coronary artery bypass grafting with y-saphenous vein grafts. <i>Angiology.</i> 60:668-75.	Göztepe Şafak H.
KV Cerr.	Selimoğlu O, Başaran M, Uğurlucan M, Oğuş TN: Rhabdomyolysis following accidental intra-arterial injection of local anesthetic. <i>Angiology.</i> 60:120-1.	Göztepe Şafak H.
KV Cerr.	Civelek A, Ak K, Akgün S, İşbir SC, Arsan S: Tricuspid valve replacement: an analysis of risk factors and outcomes. <i>Thorac Cardiovasc Surg.</i> 2008;56:456-60.	Marmara Ü.
KV Cerr.	Emreca B, Tulukoğlu E. A current view of cerebral protection in aortic arch repair. <i>J Cardiothorac Vasc Anesth.</i> 23:417-20.	Pamukk. Ü. Gazi Ü.
KV Cerr.	Kiriş I, Tekin I, Yılmaz N, Sütçü R, Karahan N, Öcal A: Iloprost downregulates expression of adhesion molecules and reduces renal injury induced by abdominal aortic ischemia-reperfusion. <i>Ann Vasc Surg.</i> 23:212-23.	S. Demirel Ü.
KV Cerr.	Kuralay E: Massive systemic air embolism during off-pump coronary artery surgery. <i>Eur J Cardiothorac Surg.</i> 35:183-4.	S. Demirel Ü.
KV Cerr.	Sanioğlu S, Tetik S, Sokullu O, Deniz H, Aydemir N, Yılmaz M, Arslan IY, Bilgen F: Aspirin resistance after CABG. <i>Thorac Cardiovasc Surg.</i> 57:281-5.	Siyami Ersek
KV Cerr.	Ulaş MM, Hizarcı M, Kunt A, Ergün K, Kocabeyoğlu SS, Korkmaz K, Lafçı G, Gedik S, Çağlı K: Protective effect of ambroxol on pulmonary function after cardiopulmonary bypass. <i>J Cardiovasc Pharmacol.</i> 2008;52:518-23.	TYİH
KV Cerr.	Biçer M, Saba D, Özdemir B, Ercan A: Idiopathic spontaneous coronary artery dissection: a case report. <i>Thorac Cardiovasc Surg.</i> 2008;56:486-8.	Uludağ Ü.
KV Cerr. - Kard.	Berkan O, Katrancioğlu N, Özker E, Özerdem G, Bakıcı Z, Yılmaz MB. Reduced P-selectin in hearts pretreated with fluvastatin: a novel benefit for patients undergoing open heart surgery. <i>Thorac Cardiovasc Surg.</i> 57:91-5.	Cumhuriyet Ü.
Ped. Kard.	Abacı A, Taşçılar ME, Saritaş T, Yozgat Y, Yeşilkaya E, Kılıç A, Okutan V, Lenk MK: Threshold value of subepicardial adipose tissue to detect insulin resistance in obese children. <i>Int J Obes</i> 33:440-6.	½ GATA
Ped. Kard.	Zeybek C, Aktuğlu-Zeybek Ç, Önal H, Altay S, Erdem A, Çelebi A: Right ventricular subclinical diastolic dysfunction in obese children: the effect of weight reduction with a low-carbohydrate diet. <i>Pediatr Cardiol.</i> 30:946-53	½ Siyami Ersek
Ped. Kard.	Sungur M, Çeliker A, Karagöz T, Baysal K: An unexpected complication during stent implantation for coarctation of the aorta: longitudinal stent compression. <i>Int J Cardiol.</i> 134:e29-31.	Ondokuz Mayıs Ü.
Ped. Kard.	Uçar T, İleri T, Atalay S, Uysal Z, Tutar E, Ertem M: Early detection of myocardial dysfunction in children with beta-thalassaemia major. <i>Int J Cardiovasc Imaging.</i> 25:379-86.	Ankara Ü.
Ped. Kard.	Çiftdoğan DY, Coşkun S, Ulman C, Tıkız H: The Factor V G1691A, Factor V H1299R, prothrombin G20210A polymorphisms in children with family history of premature coronary artery disease. <i>Coron Artery Dis.</i> 20:435-9.	C. Bayar Ü.
Ped. Kard.	Erdoğan İ, Özer S, Karagöz T, Çeliker A: Transesophageal electrophysiologic study to determine the inducibility after successful ablation of supraventricular tachycardia in children. <i>Pacing Clin Electrophysiol.</i> 32:1402-6.	Hacettepe Ü.